Hawaiian Volcano Observatory Summary 102; Part I, Seismic Data, January to December 2002

by Jennifer S. Nakata

Chronological Summary
by C. Heliker, T. Orr, and R. Hoblitt

Open-File Report 03-132

2003

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

Hawaiian Volcano Observatory
Hawai'i Volcanoes National Park, Hawai'i 96718

TABLE OF CONTENTS

2002 HAWAIIAN VOLCANO OBSERVATORY STAFF

DONALD A. SWANSON (SCIENTIST-IN-CHARGE)

ARNOLD T. OKAMURA (DEPUTY SCIENTIST-IN-CHARGE)

GEOLOGY

C. CHRISTINA HELIKER
RICHARD P. HOBLITT
DAVID R. SHERROD
FRANK A. TRUSDELL

GEOPHYSICS

JAMES P. KAUAHIKAUA

SEISMOLOGY

STUART K. KOYANAGI
JENNIFER S. NAKATA
PAUL G. OKUBO
JEFF O. URIBE +

DEFORMATION

PETER F. CERVELI +
ASTA MIKLIUS
MAURICE K. SAKO

GEOCHEMISTRY

TAMAR ELIAS
A. JEFFERSON SUTTON

ELECTRONICS

STEVEN K. FUKE
BRUCE T. FURUKAWA
KENNETH T. HONMA

COMPUTER

WILFRED R. TANIGAWA

LIBRARY/PHOTO ARCHIVE

T. JANE TAKAHASHI

ADMINISTRATION

PAULINE N. FUKUNAGA
MARIAN M. KAGIMOTO

PROGRAM OUTREACH COORDINATOR

STEVE R. BRANTLEY

SCIENTIST EMERITUS

ROBERT Y. KOYANAGI

CONTRACTS

Seismic :

L. GLADYS FORBES - record changing
ADOLPH R. TEVES - record changing

CSAV Cooperative Employees

JEAN BATTAGLIA - Seismic
FRANCINE S. COLOMA - Deformation
CHAN SHIM - Deformation
RALF KRUG - Deformation

+ Arrived in 2002
* Left in 2002

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 most data for events of $M \geq 1.5$ 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 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 by Klein and Koyanagi (1980) [1] tabulating instrumentation, calibration, and recording history of each seismic station in the network. 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.

---

[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 2002
by

C. Heliker, T. Orr, and R. Hoblitt

Statistics

Lava covered 9.6 km^2 in 2002, 6.9 km^2 of which was virgin, vegetated land. The total area covered by lava since 1983 is 112.1 km^2, and the volume of lava is approximately 2.4 km^3 (dense rock equivalent). For the latest statistics, refer to table G-2.

No pauses in magma supply to the Pu‘u ‘O‘o flank vent(s) occurred in 2002 (table G-3). In addition to the Mother’s Day event, however, several other events perturbed the eruption. Three tilt events that were local to Pu‘u ‘O‘o triggered increased activity in the crater and shield area, as did a surge-style event initiated at the summit on April 5–6.

Whole-rock MgO showed no significant change throughout 2002. Eruption temperatures showed more scatter—mainly because of frequent changes in sampling sites and methods through the year—but no consistent trends.

Flows, rootless shields, and hornitos

The tube/flow system that began after a pause in December 2000 finally broke down in January 2002. During this two-year interval, a stable tube led from the flank vent(s) on the southwest side of Pu‘u ‘O‘o cone to the top of Pulama pali, producing a series of overlapping surface flows that were mapped as a single expanding unit through January 2002 (see December 2001–January 2002 report).

The upper reaches of this tube persisted into 2002, but the flow activity began to change significantly in early December 2001, when persistent breakouts began between the 2,300- and 2,000-ft elevations. Within a month, the lower half of the tube system, which included two main branches feeding ocean entries at East Kupapa‘u and Kamoamoa, was stagnating. Concurrently, the breakouts high on the tube grew in number and output, and, by the end of March, eight rootless shields formed a continuous ridge, 2.7 km long and up to 1.5 km wide, between the 2,250- and 2,000-ft elevations (fig. G-6). Several pahoehoe breakout areas developed at the lower end of the rootless shield field—on both the Kamoamoa and Ocean entry tubes—that were not quite shields but failed to produce any long flows.

This was the longest of only two periods of rootless-shield building during this eruption. The first, in September–November 1999, seemed to be occur in response to irregular lava supply through the tubes due to a succession of eruptive pauses. The 2002 crop of shields, however, is more puzzling. First, we don’t know what caused the lower part of the tube system to atrophy. The magma supply apparently waned during this period (see Geophysics section, February–March 2003 report), but a prolonged and well-documented period of reduced supply during 1991 did not produce rootless shields.

Hornitos are another piece of the rootless shield puzzle. A fantastic crop formed in the first three months of 2002—more than the sum total of the previous 19 years of eruption—and these were by far the largest specimens, with several in the 8-to-12-m-high bracket. Both the hornitos and the rootless shields require a full tube to form, a condition that was met during January–March 2002. Then the lower end of the tube had stagnated, and the breakouts that built the rootless shields, even though fluid pahoehoe, did not flow long or far enough from their source to form new tubes.

The rootless shield activity declined during the last half of April. Between April 25 and April 30, two substantial flows (HALP and Boundary, fig. G-6) had struck out from the line of rootless shields and advanced rapidly to the southeast, both progressing more than 2 km within a few days. This resumption of “normal” flow behavior was relatively abrupt and did not correspond to a long-term change in lava flux (see Geophysics section, April–May 2002 report). It may have been triggered by a short-term increase in flux associated with the April 23–24 tilt event, local to Pu`u `O`o, which caused 10 mrad of inflation at POC, followed by gradual deflation that continued until about April 28. This event initiated several days of heightened activity in the crater of Pu`u `O`o that ended late on April 27.

The HALP flow soon entered the remains of the Royal Gardens subdivision and in late May claimed the only structure of 2002, a long-abandoned house on Ekaha Street. The HALP flow continued its advance through Royal Gardens until June 14 and stagnated completely by July 5. The Boundary flow was active through August 19, though activity was much diminished after the Mother's Day flow began (see below). The tube that fed these flows was declared dead at the end of August 2002 (see Geophysics section, August–September 2002 report).

Mother's Day flow

On May 12, the Mother's Day flow broke out on the west flank of the episode 50–55 shield (fig. G-5 and G-6) as the POC tiltmeter recorded more than 18 microradians of deflation. The summit also responded to this event but lagged behind POC and recorded only about 2 microradians at UWE. GPS data show that the active magmatic system of Kilauea, from the summit down the east rift zone to at least Pu'u 'O'o, began to inflate sometime between mid-November 2001 and January 2002, which may have been the reason for the decline in lava flux early in 2002. The rate of inflation at the summit and on the east rift zone did not immediately turn over after May 12, as we might have expected if the Mother's Day breakout represented magma stored in the rift zone. Instead, the rate of inflation slowed after May 12, flattened in June, and finally turned over in July.

Initially, a line of steam plumes headed upslope from the source of the Mother's Day flow toward the 55 cone/pit–Puka Nui area (fig. G-5). VLF measurements taken by Jim Kauahikaua on May 17 over the steaming area suggested that a shallow tube was feeding the source. Subsequent VLF measurements farther upslope, however, failed to find an active tube that could be traced upslope to known flank vents in the West Gap or Puka Nui areas. Probably the Mother's Day flow is fed by a new flank vent that intercepted an old (early episode 55) tube in the shield.

The new flow advanced down the west margin of the flow field, sparking forest fires and reaching the ocean at West Highcastle on July 19. The subsequent ocean entries are listed in table G-4 and shown on fig. G-2. The Mother's Day flow continued through the end of 2002.

Pu'u 'O'o crater

On January 22, a small tilt event recorded only on POC initiated the first crater activity of the year, and flows repaved the inner trough on the crater floor with pahoehoe. During February, the inner trough slowly filled, with small flows contributed by most of the vents shown in fig. G-5. In the last week of February, lava overflowed the trough, and by the end of March, only a thin slice of the old 1999 terrace was still visible below the West Gap. Crater activity surged during the two tilt events in April, producing a lava pond at the east end of the crater, fed mainly by the East Pond and January vents.

By the end of April, the crater floor had risen to within 12 m of the east rim, and the top of the highest cone, at the East Pond vent, was only 3.7 m below the east rim. In May, the crater activity diminished to a few bouts of spattering. Thereafter, only a single short lava flow, on July 2, was active in the crater for the remainder of the year.

West Gap

On March 8, a new spatter cone, perched halfway up the southeast wall of the 55 cone/pit (fig. G-5), was intermittently feeding a thin stream of pahoehoe that ran down to the bottom of the pit. At the end of March, a new pad of pahoehoe floored the West Gap Pit, the first activity in this pit since 2001. At the same time, an active lava pond filled the 55 cone/pit to within 10 m of its low northwest rim. The new pond waxed and waned through mid-April and was briefly rejuvenated during the Mothers' Day event, when it overtopped its east and north rims. By May 17, it was inactive and remained so for the rest of the year.

On April 11, the spatter cone that hugs the west wall of the West Gap Pit fed flows that formed a pond a few meters deep. Several hours later, the pond drained, then partially refilled. By the following day, it was inactive. A 10-m-high hornito formed over the spatter cone in the West Gap pit in May, probably on Mother's Day.

Puka Nui

Puka Nui hosted a small lava pond within an inner collapse pit for a week in March, then lapsed into inactivity until the surge of April 6, which produced the first overflow from Puka Nui since late 1999. The new flow extended about 800 m to the south-southeast. Three small spatter cones formed inside Puka Nui at this time, all along the trace of the cone-shield contact (fig. G-5). By mid-April, a larger spatter cone had formed near the center of Puka Nui; this cone appeared to be the source of the flows that continued to issue from Puka Nui through mid-May. The last activity probably occurred on May 12; by the following week the flows were stagnant.

Table C-1. Eruption Statistics

Areas

Total area covered by lava, 3/83–12/31/02: **112.1 km²** (43.3 mi²)

Episode	Area originally covered	Area exposed, 12/31/02
1–48b (mostly Pu'u 'O'o)	42.0 km²	17.3 km²
48 (Kupaianaha)	41.0	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	8.4
54 (in & NE of Napau Crater)	0.24	0.24
55 (Pu'u 'O'o flank vents)	46.6	46.6

New (vegetated) territory covered in 2002: **6.9 km²**

Net total of new land created, Nov 86–Dec. 2002: **225 hectares** (561 acres)**#**
Net new land created during 2002: ~**12.8 hectares** (31.6 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 through 12/02. Approximately: **2.4 km³** (dense rock equivalent)

Episodes 1–48b (1/83 - 6/86)	**391 x 10⁶ m³**
Episode 48 (7/86–2/92)	**500 x 10⁶ m³**
Episode 49 (11/91)	**11 x 10⁶ m³**
Episode 50 (2/92–3/92)	**4.5 x 10⁶ m³**
Episode 51-52 (3/92–2/93)	**78 x 10⁶ m³**
Episode 53 (2/93–1/97)	**535 x 10⁶ m³**
Episode 54 (1/97)	**0.3 x 10⁶ m³**
Episode 55 (2/97– ongoing)	**833 x 10⁶ m³**

Other fascinating facts

Height of Pu'u 'O'o cone: **~187 m** (613 ft). Cone has lost **~68 m** (223 ft) to collapse since 1986
Dimensions of Pu'u 'O'o crater: ~**250 m x 400 m** (820 x 1312)
Depth of Pu'u 'O'o crater floor below east rim, Dec 2002: **~12 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:
~**15-35 m** (33–115 ft) over Chain of Craters Rd/Hwy 130
Highway covered by lava flows from this eruption: **13.7 km** (8.5 mi)

Structures destroyed

Structures destroyed in 2002: **1** (upper Royal Gardens)
Total structures destroyed since 1983: **189**

Table C-2. Episode 55 eruptive pauses and other magmatic events through December 2002.

Episode 55 pause no. or magmatic event	Start date & time, H.s.t.		End date & time, H.s.t.		Length, hours	
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	6/16/92	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	8	
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	0/05/99	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
Pu‘u ‘O‘o /summit	8/25/01		8/25/01			Small crater-floor collapse
Summit event	12/08/01		12/10/01			No effect on eruption
Pu‘u ‘O‘o tilt	1/22/02		1/22/02			Lava flows in crater
Pu‘u ‘O‘o tilt	2/10/02	1149	2/10/02	1600		Increase in crater activity
Surge	4/05/02		4/06/02			Increase in crater/cone activity
Pu‘u ‘O‘o tilt	4/23/02		4/24/02			Increase in crater/cone activity
Mother’s Day event	5/12/02					New flank vent, high lava-flux rate

Table C-3. Ocean entries, from west to east, active during 2002. Dimensions and areas for Kamoamoa and East Kupapa'u are for January 2002, rather than end of year.

Ocean entry	Dates of activity	End of year bench dimension	End of year bench area (hectares)	Maximum bench area (hectares)
Wilipe'a	Jul. 21-Aug. 8, Aug. 11, 14, 16, Sep. 3-Dec. 31	750 x 100 m	5.4	14.8
West Highcastle	Jul. 19-Aug.2, Aug. 7, Aug. 13, Sep. 16-18, Sep. 20-Dec. 31	800 x 150 m	6.2	10.7
Highcastle	Aug. 8-15, Aug 20-24, Sep. 20-21, Oct. 29, Nov. 11-21, Dec. 9-31	290 x 60 m	1.2	1.3
West Lae'apuki	Nov. 19-24	Not mappable	Not mappable	Tiny
Lae'apuki	Nov. 20-28	98 x 12 m	<0.1	0.2
Kamoamoa	Sep. 27, 2001-Jan. 30, 2002	490 x 130 m	3.1	3.1
East Kupapa'u	Apr. 25, 2001-Jan. 22, 2002	600 x 120 m	3.9	3.9

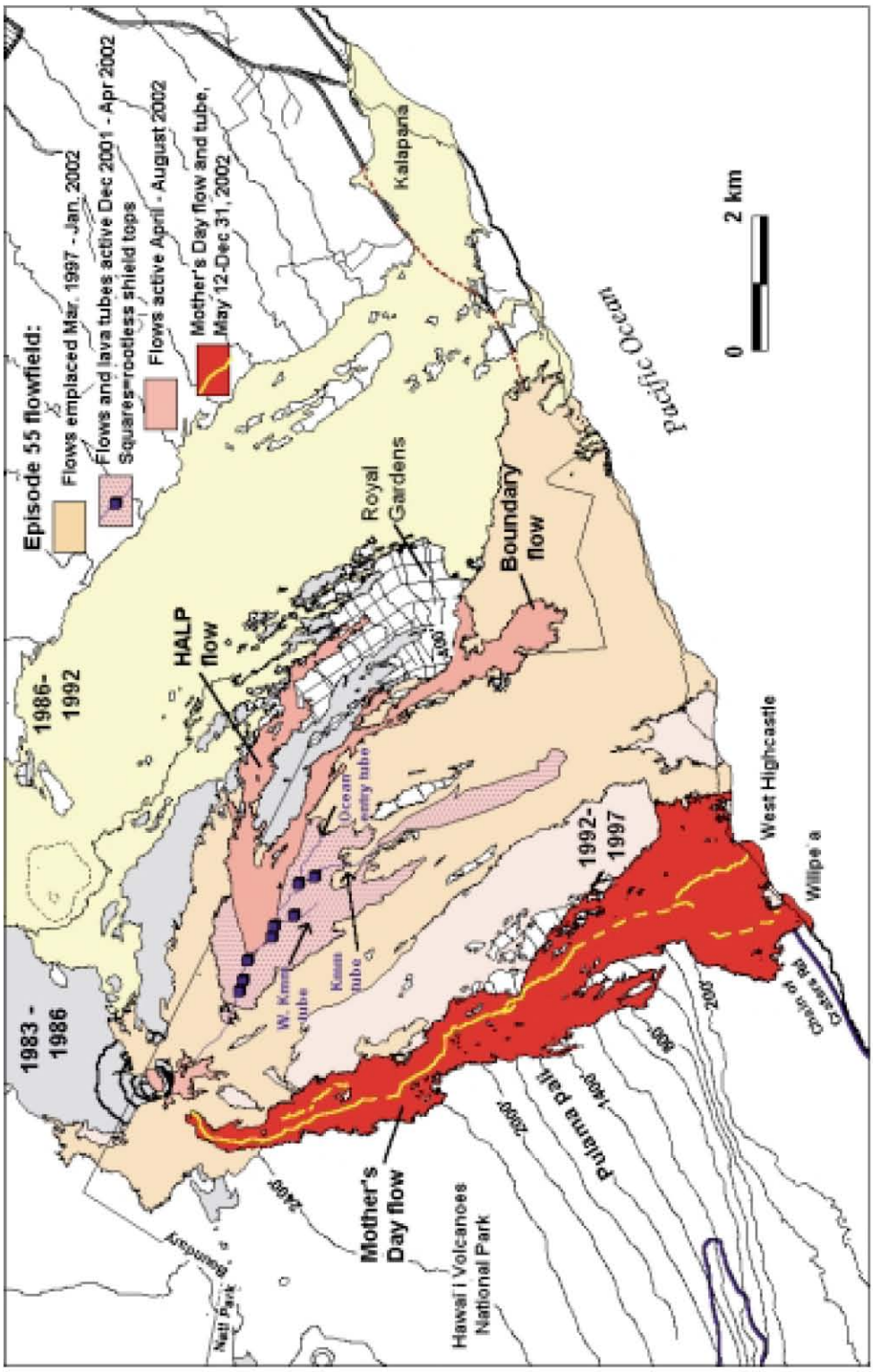


Figure C-1. The eruption site, showing flows emplaced in 2002, with the exception of those active only through January (see December 2001–January 2002 monthly report).

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 2002 network consisted of 50 station sites: 9 three-component, 3 six-component (which included a three-component Kinemetric Force-Balance accelerometer), 2 four-component (Uwekahuna included a low-gain vertical with a unity gain setting; Ainapo included a moderate-gain vertical with a 48db setting), 3 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 2002. 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 2002. 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. Response curve for the short-period seismograph type in use is given in figure 6. The Type 1 curve gives the 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.

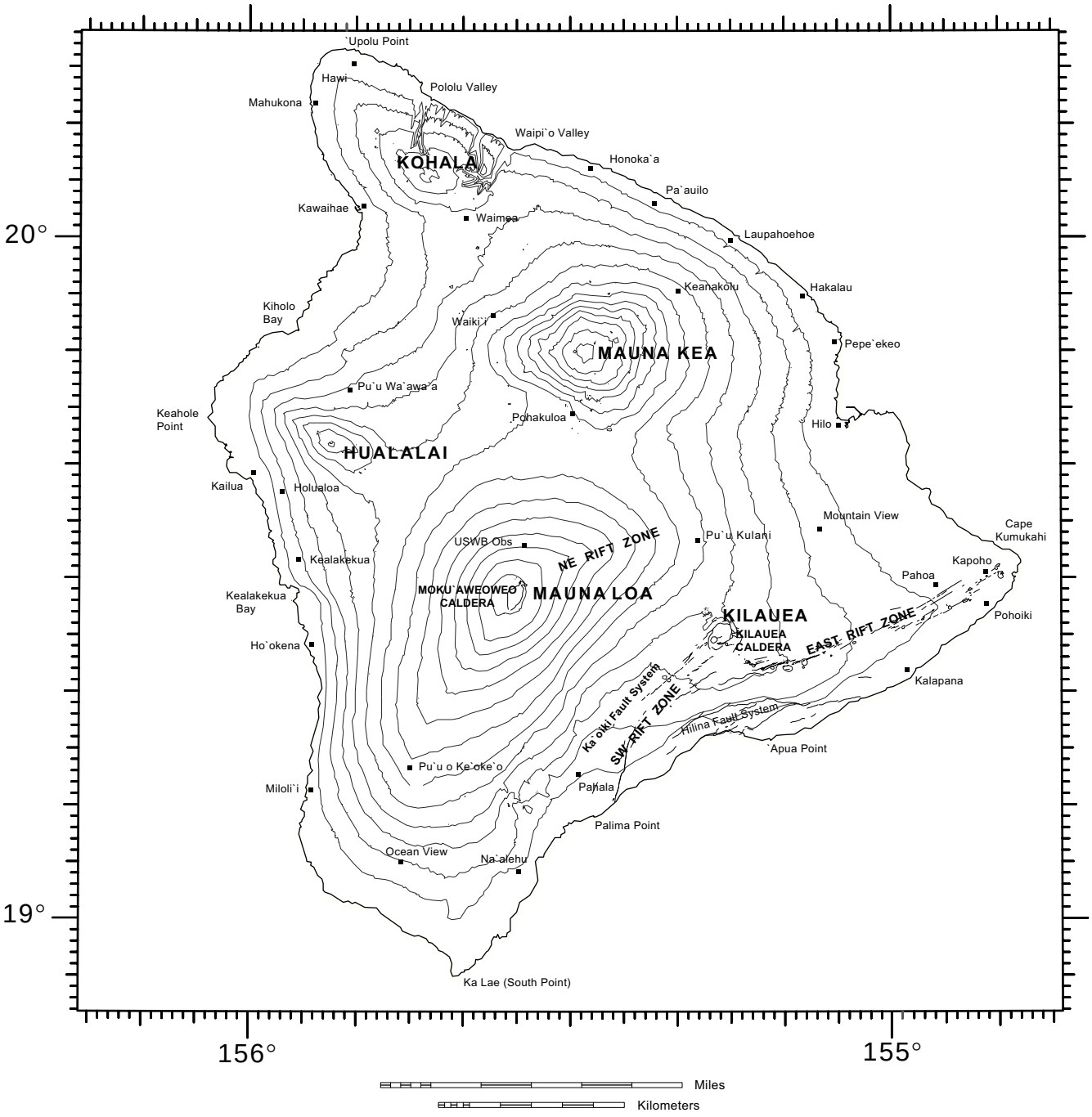


Figure 1. Map of the Island of Hawai'i, showing principal settlements and selected geographic and geologic features.

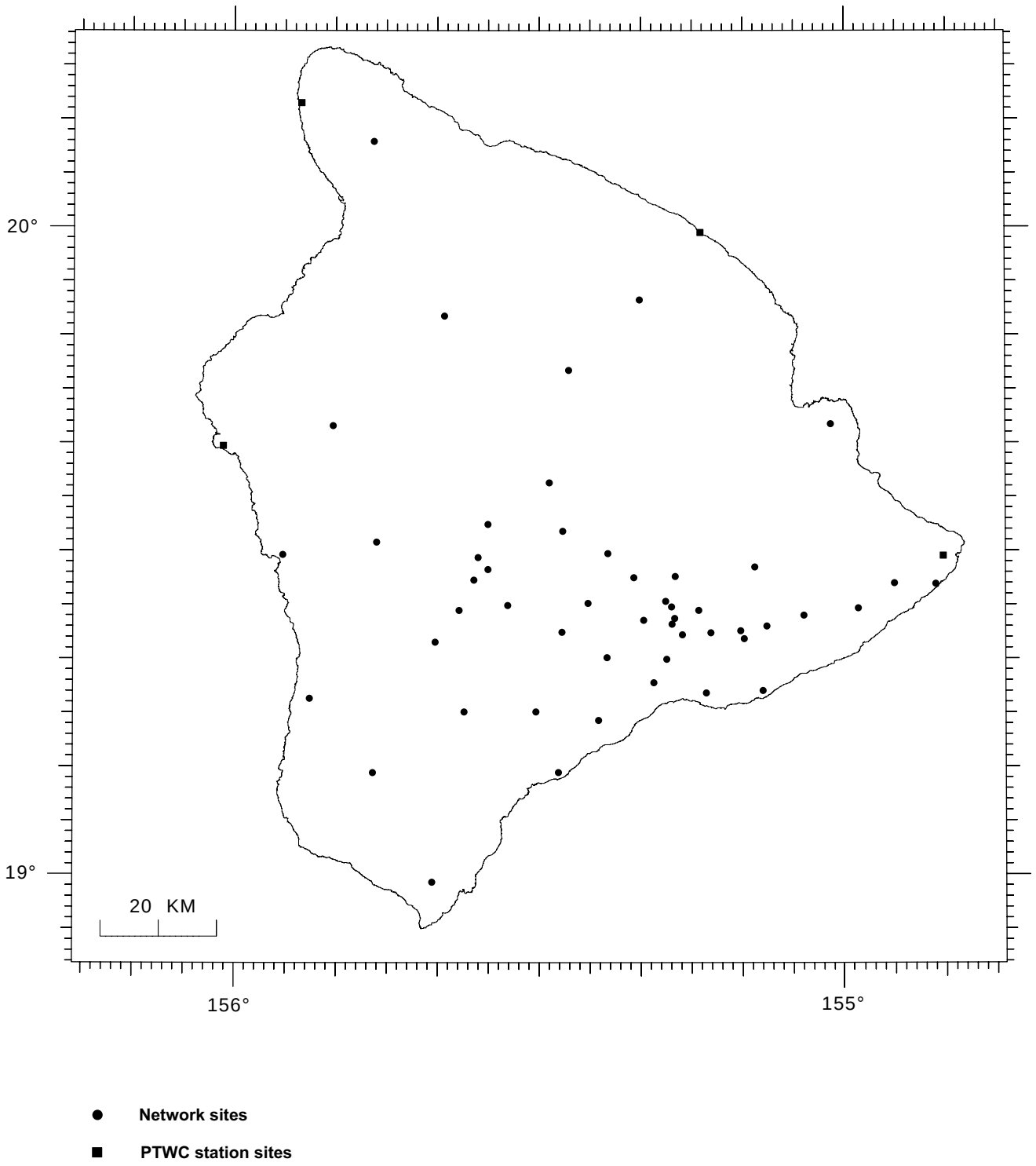


Figure 2. Seismic station sites operated by the USGS and NOAA on Hawai‘i Island during 2002 on the Island of Hawai‘i.

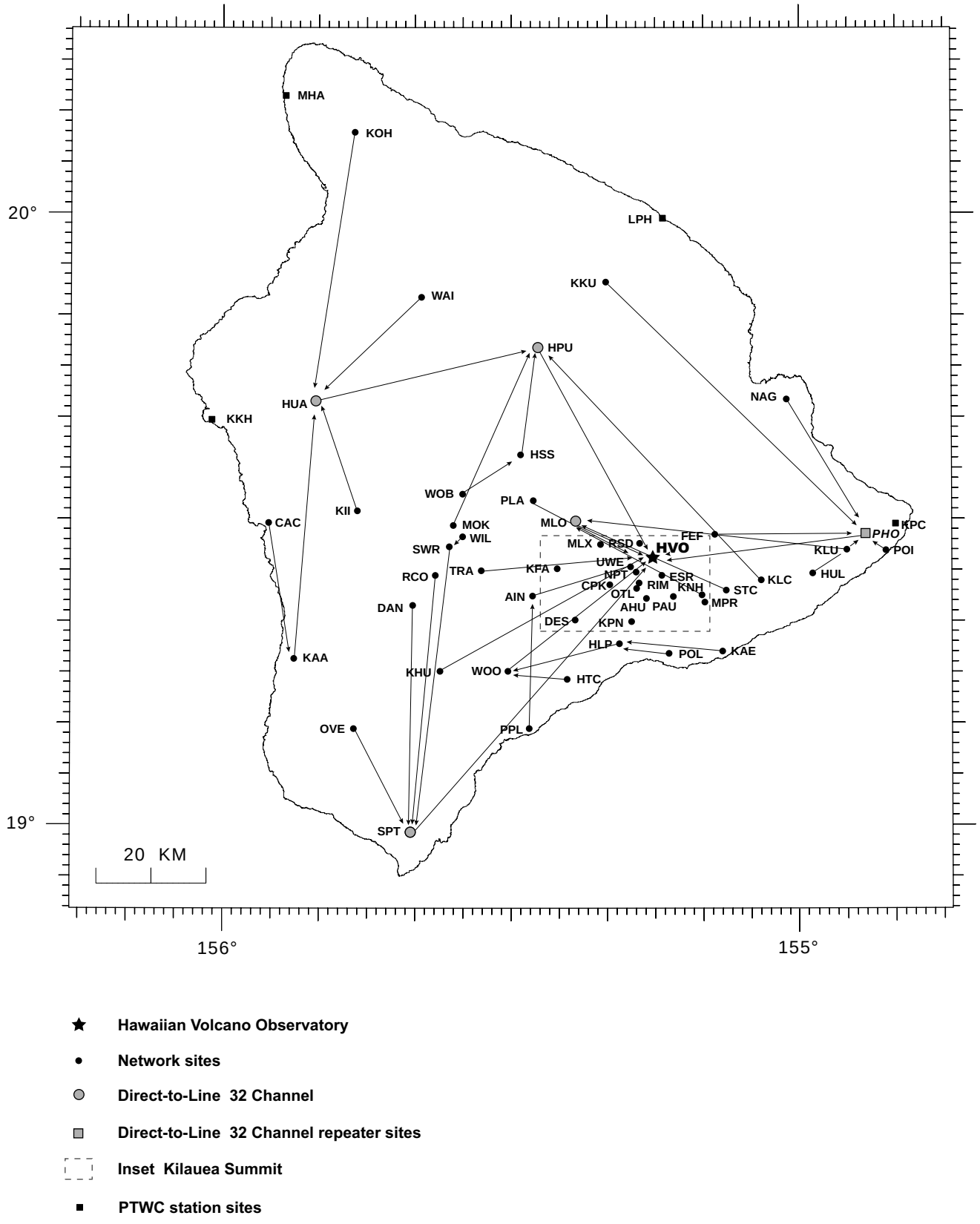
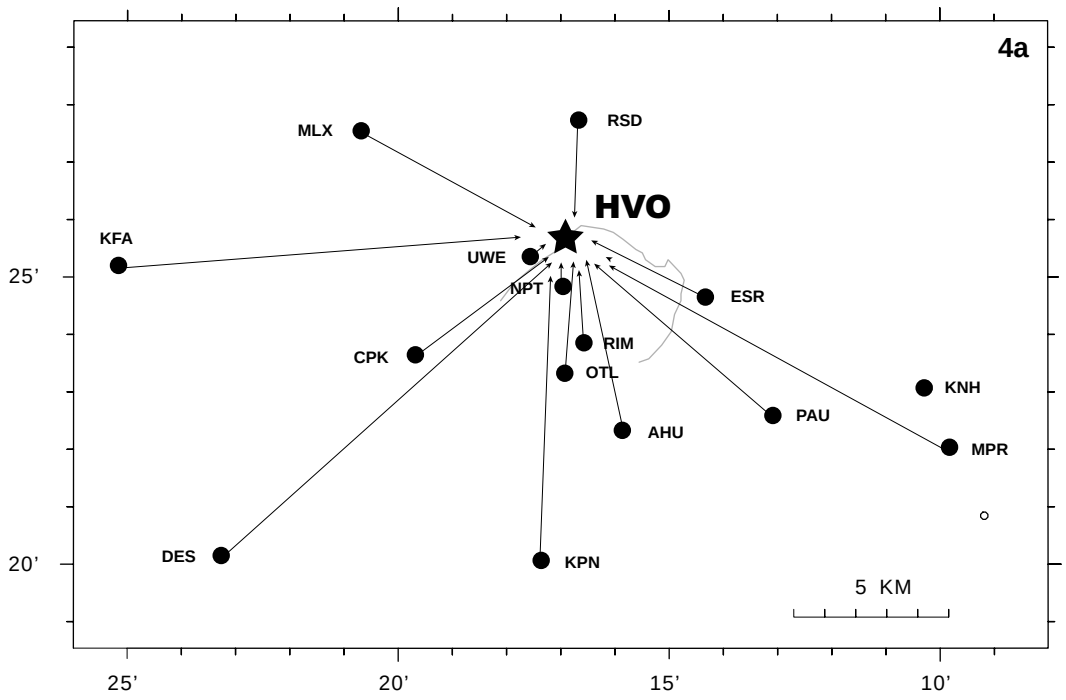
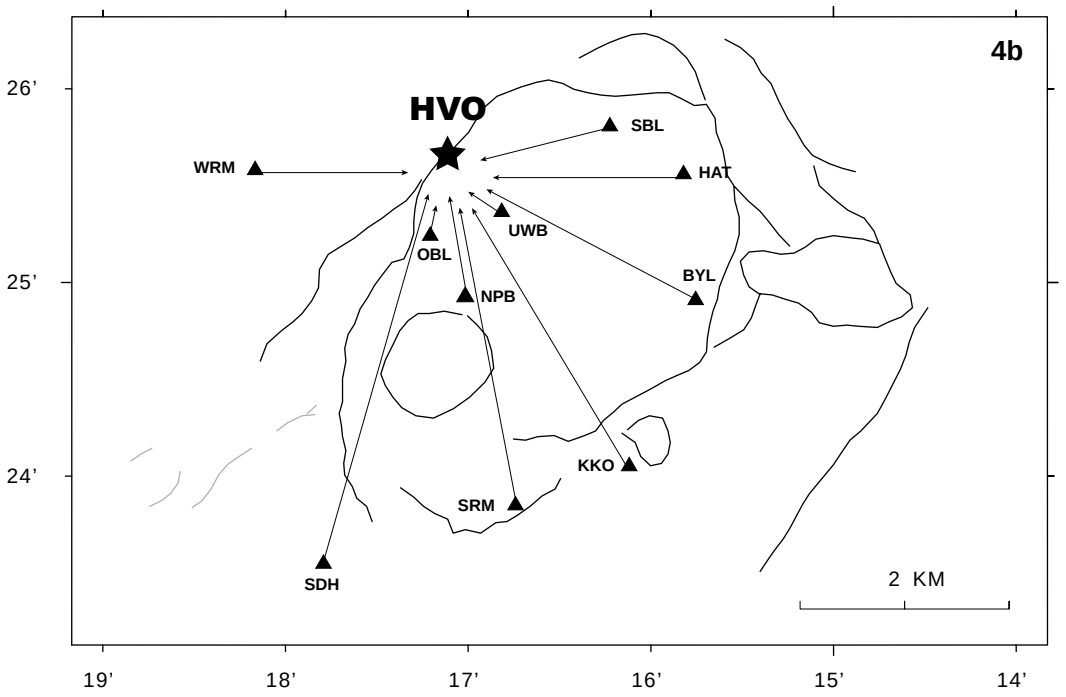


Figure 3. Telemetry scheme for seismic stations operational during 2002 on the Island of Hawai'i.





★ **Hawaiian Volcano Observatory**

● **Network sites**

▲ **Broadband sites**

Figure 4a. Expanded telemetry scheme for the 2002 Hawaiian Volcano Observatory seismic network at Kilauea summit.

Figure 4b. Expanded telemetry scheme for the 2002 Menlo Park broadband network at Kilauea summit.

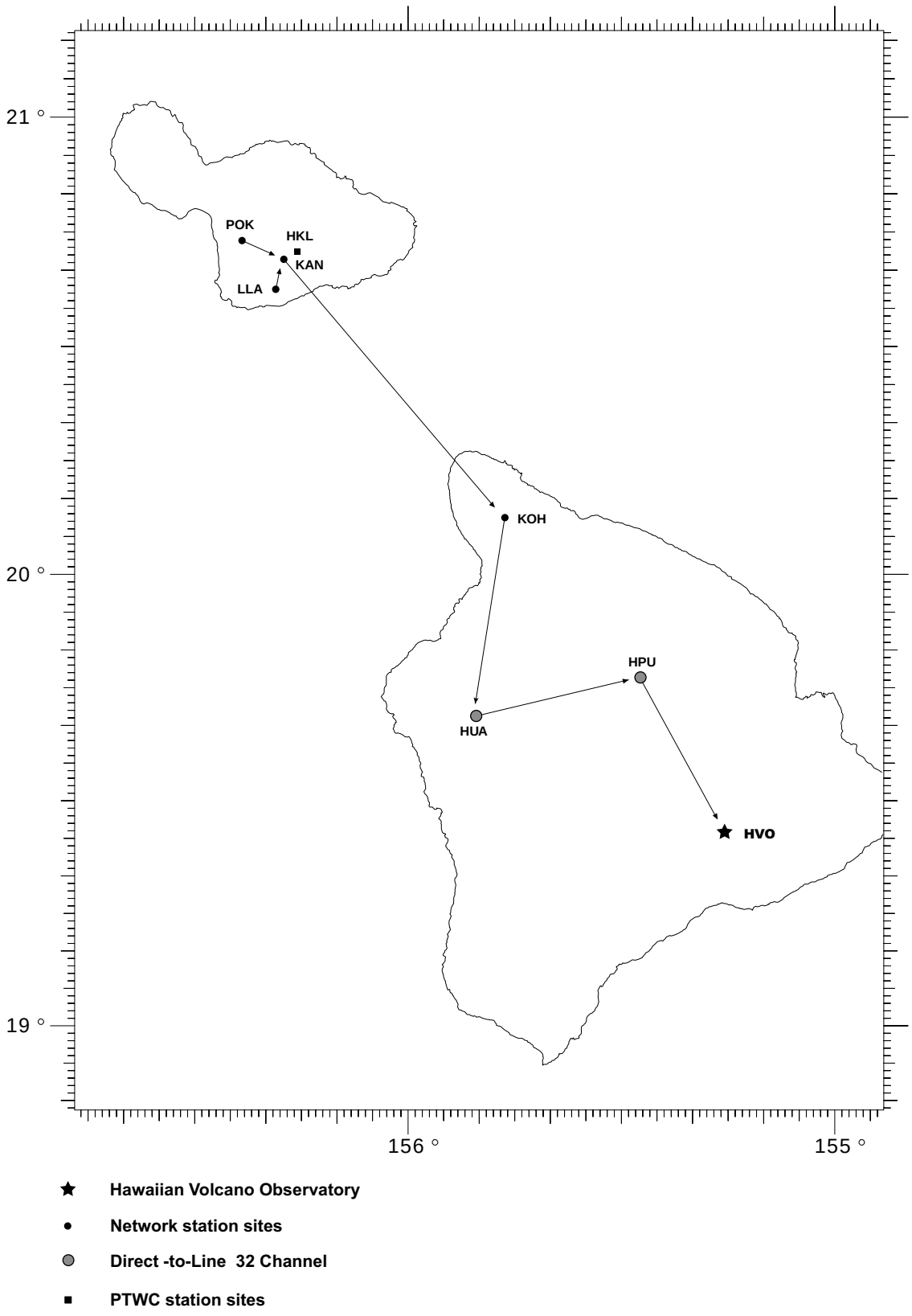


Figure 5. Telemetry scheme for seismic stations operational during 2002 on the Island of Maui.

Table 1. Seismic stations in Hawai‘i operated by the USGS in 2002.

STATION NAME	CODE	-LAT- D	M	-LON- D	M	ELEV (M)	DELAY 1	DELAY 2	CAL	SEIS TYPE	OPTIC RECORD
AHUA	AHUV	19	22.40	155	15.90	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 HEAD, OA	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	
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	HSAZ	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
HUMUULA SHEEP ST	HSAN	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
HUMUULA SHEEP ST	HSAE	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
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	I
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	
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	
KANE NUI O HAMO	KNHV	19	22.77	155	10.16	954	-0.17	-0.20	0.0	L5	I
KANE NUI O HAMO	KNHZ	19	22.77	155	10.16	954	-0.17	-0.20	0.0	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	

STATION NAME	CODE	-LAT- D	M	-LON- D	M	ELEV (M)	DELAY 1	DELAY 2	CAL	SEIS TYPE	OPTIC RECORD
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	
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	H
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	L5	
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 MW	
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	
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 OBSERVAT	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 J502, J512 (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.

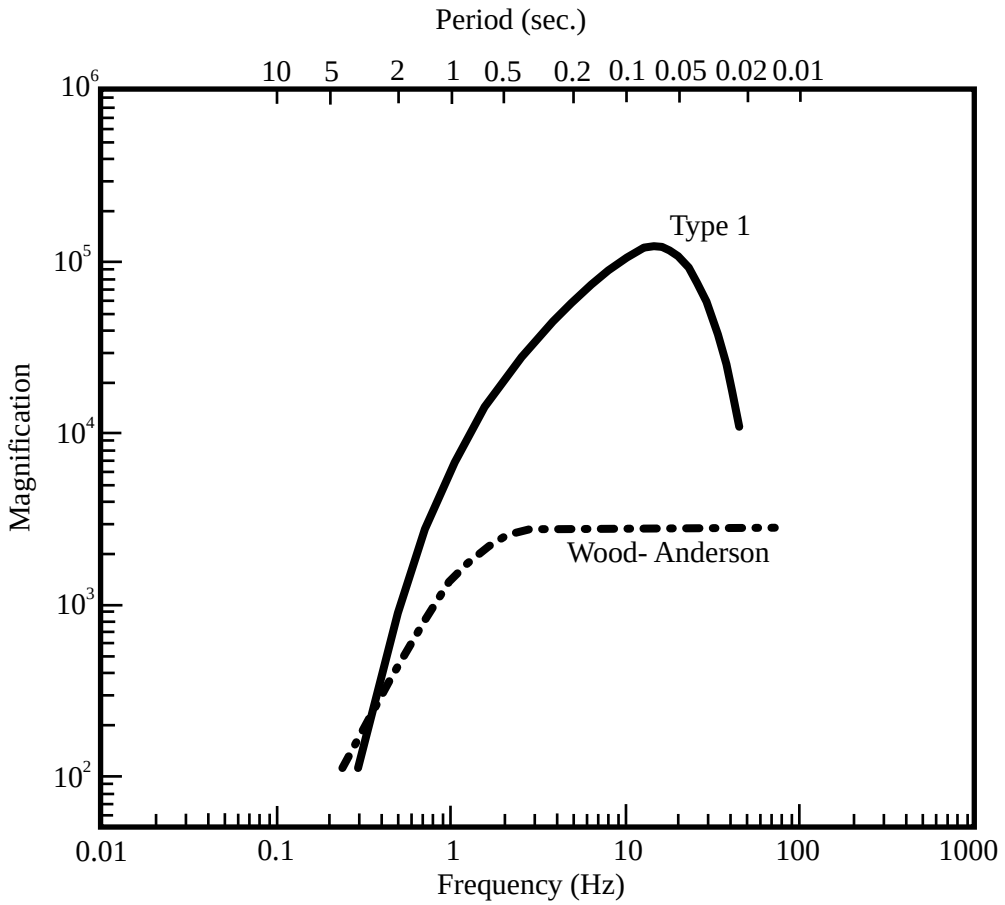


Figure 6. System-response curves for the Wood-Anderson torsion seismograph and for seismometers used by the Hawaiian Volcano Observatory. The Type 1 curve plots the unit response of the standard USGS microearthquake seismometer system recorded on Develocorder film. This includes the geophone, all electronics including telemetry, Develocorder galvanometer, and projection of film by a 20x viewer. The unit response curve is multiplied by constant but known factors (CAL) to obtain the responses for individual stations.

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, 2002) [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.

---

[2] Klein, F.W., 2002, 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.

SEISMIC CATALOG

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

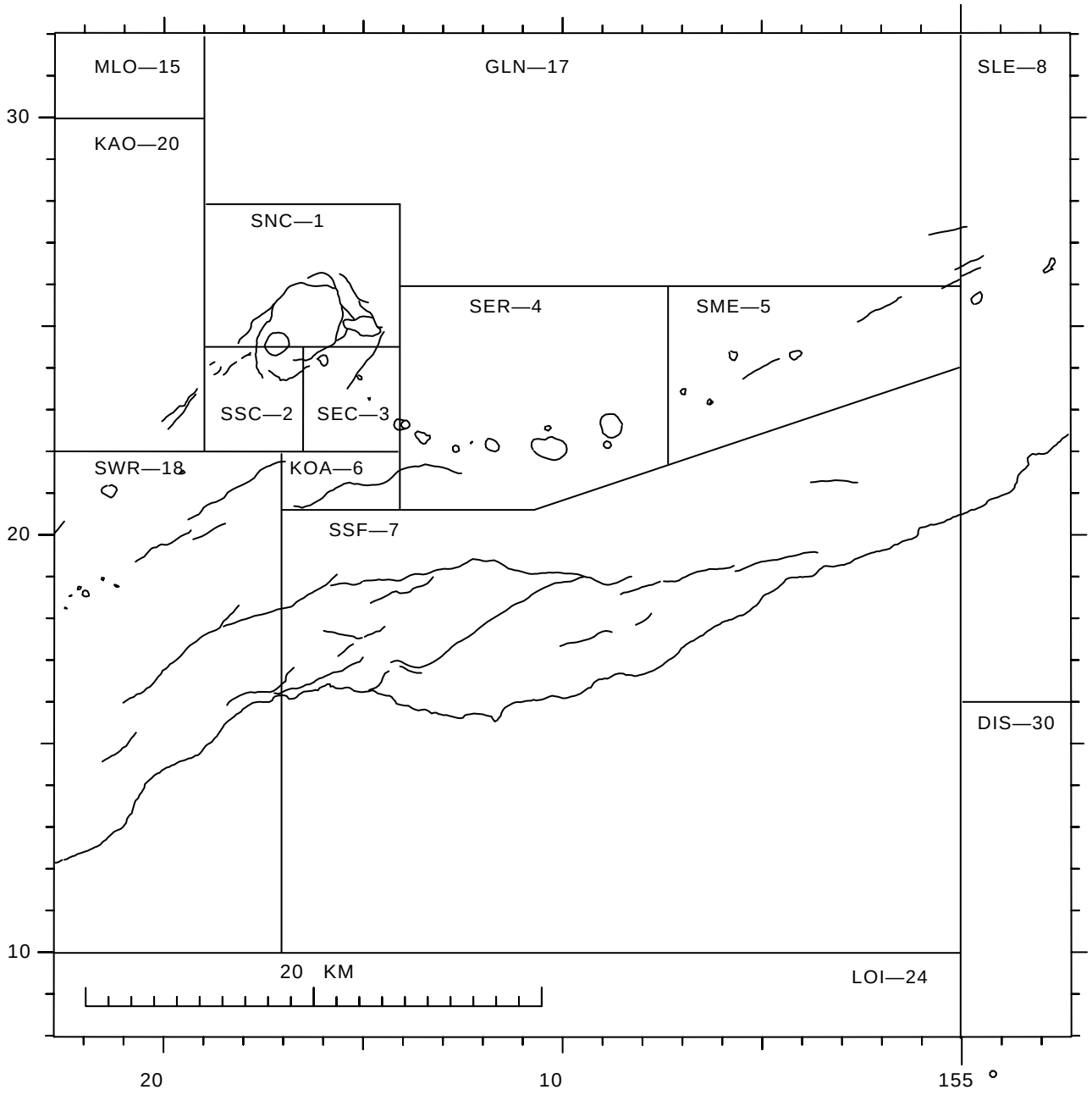


Figure 7. Earthquake classification, shallow (0-5 km deep), for Kilauea and the east flank of Mauna Loa.

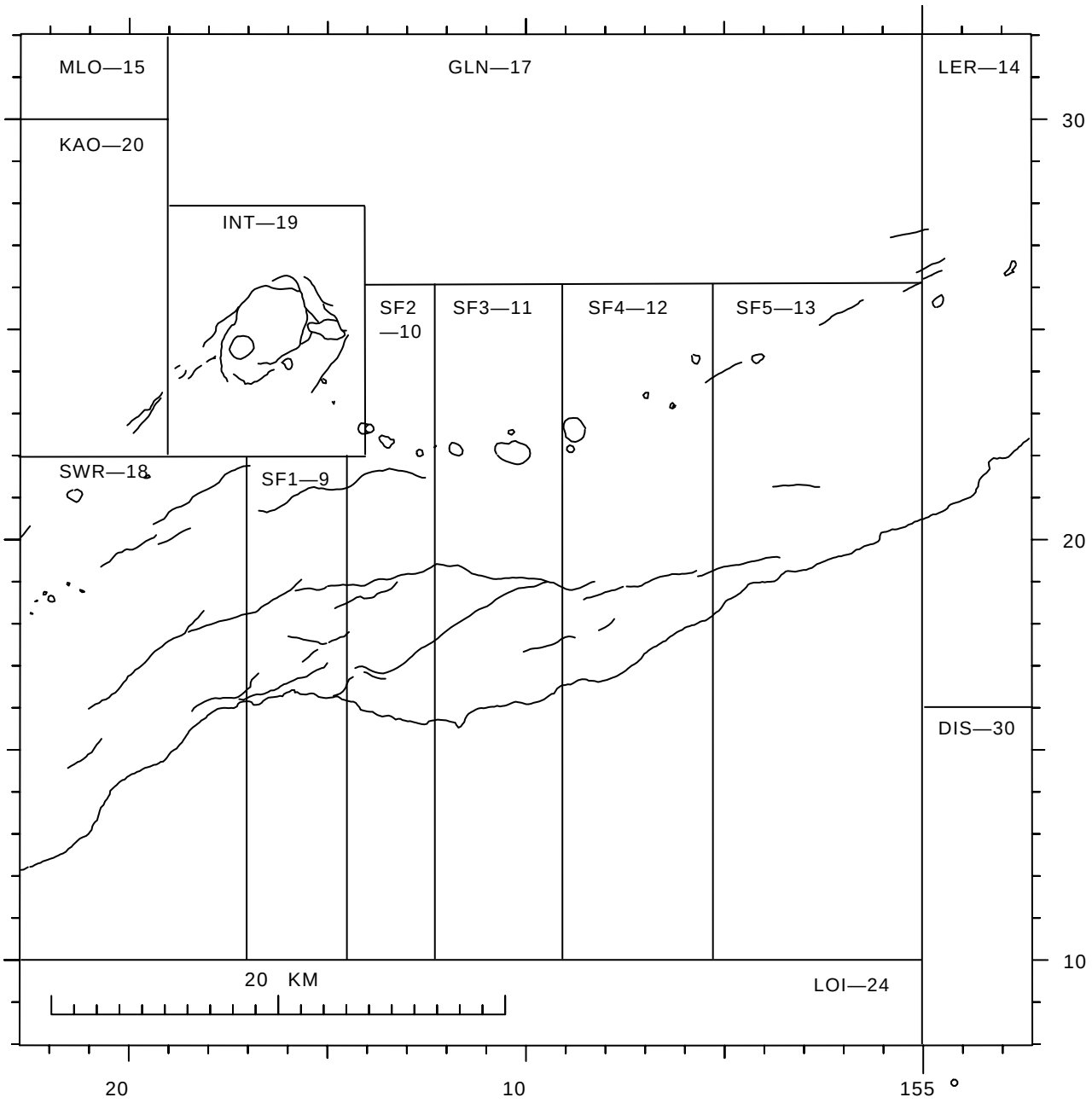


Figure 8. Earthquake classification, intermediate (5.1-13 km deep), for Kilauea and the east flank of Mauna Loa.

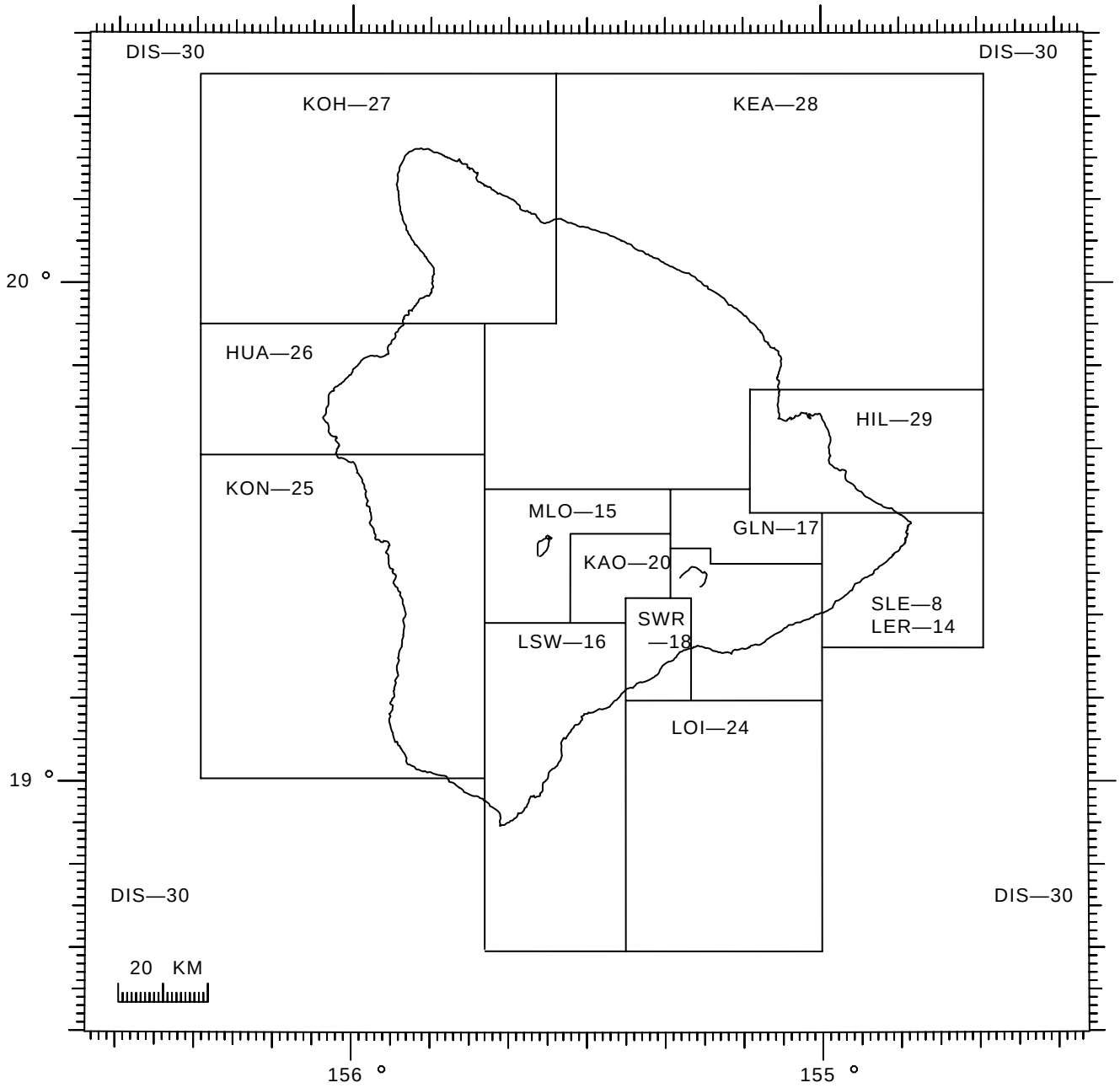


Figure 9. Earthquake classification, crustal (0-13 km deep), for the Island of Hawai'i.

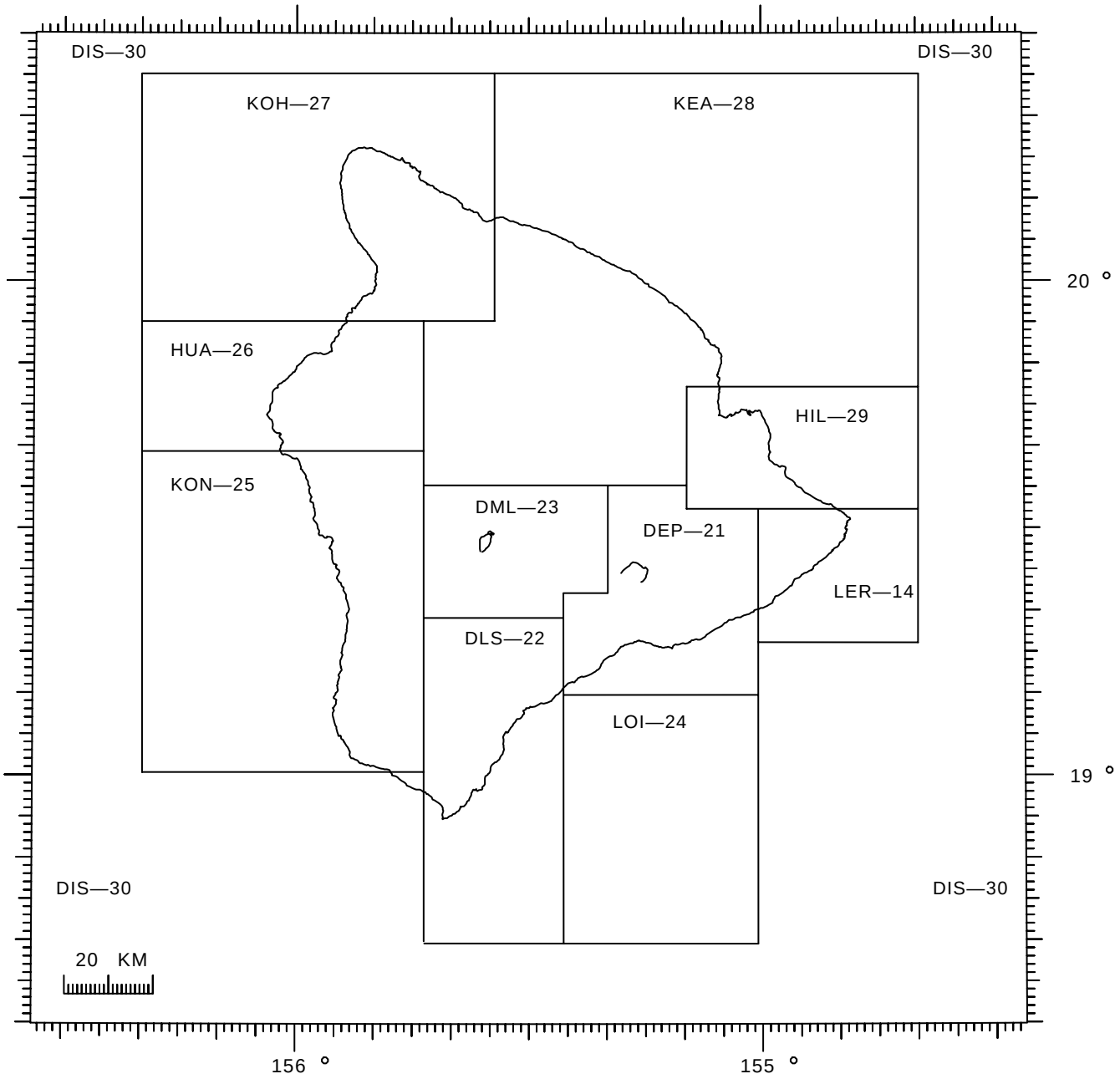


Figure 10. Earthquake classification, deep (greater than 13 km deep), for the Island of Hawai‘i.

Figure 11. 2002 earthquake locations, Hawaiian Islands,
0±60 km depth, M>=3.5.

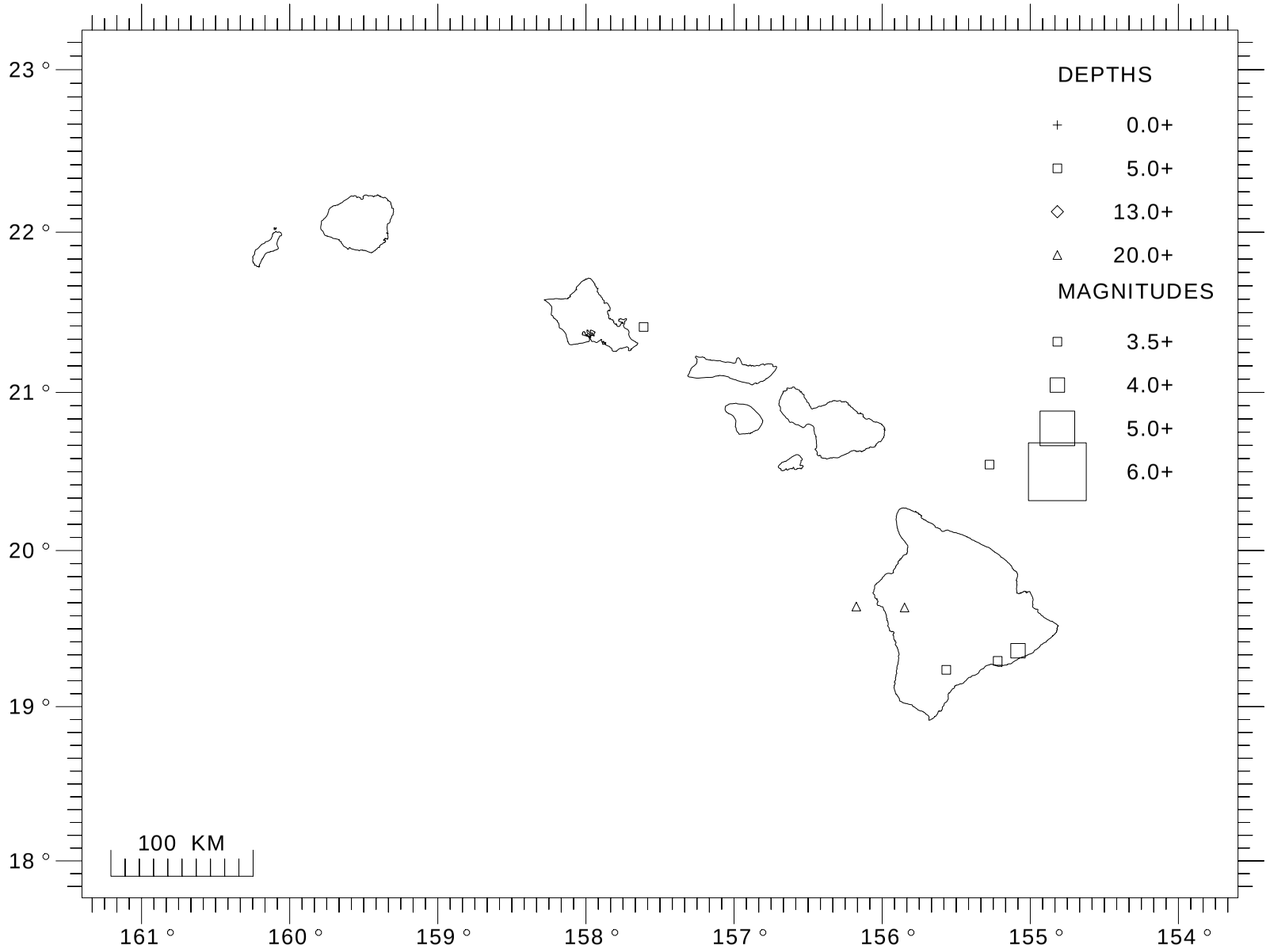


Figure 12. 2002 earthquake locations, Hawai`i Island,
0±60 km depth, M>=3.0.

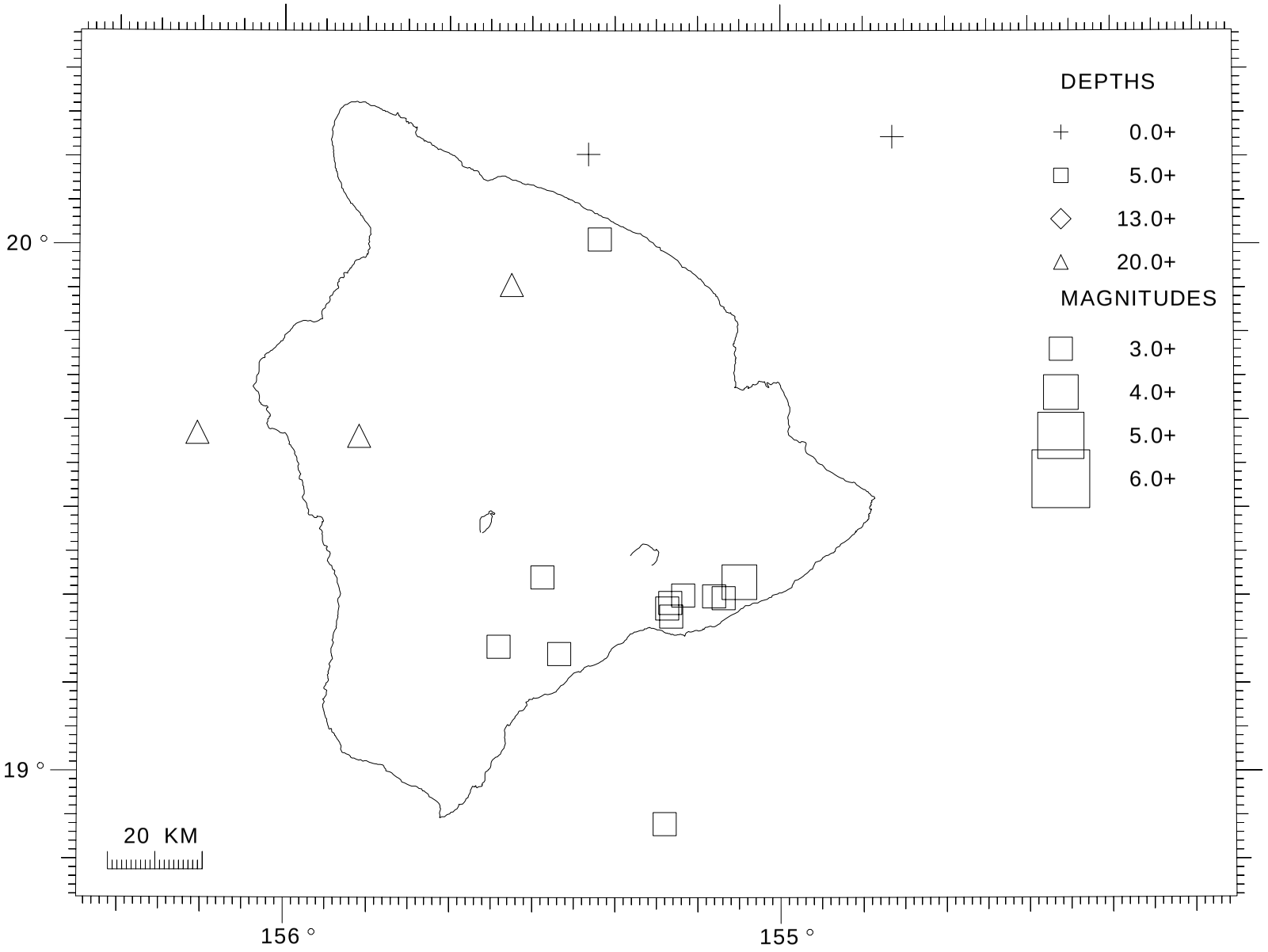


Figure 13. 2002 earthquake locations, Hawai`i Island, shallow (0±5.0 km depth), M>=2.0.

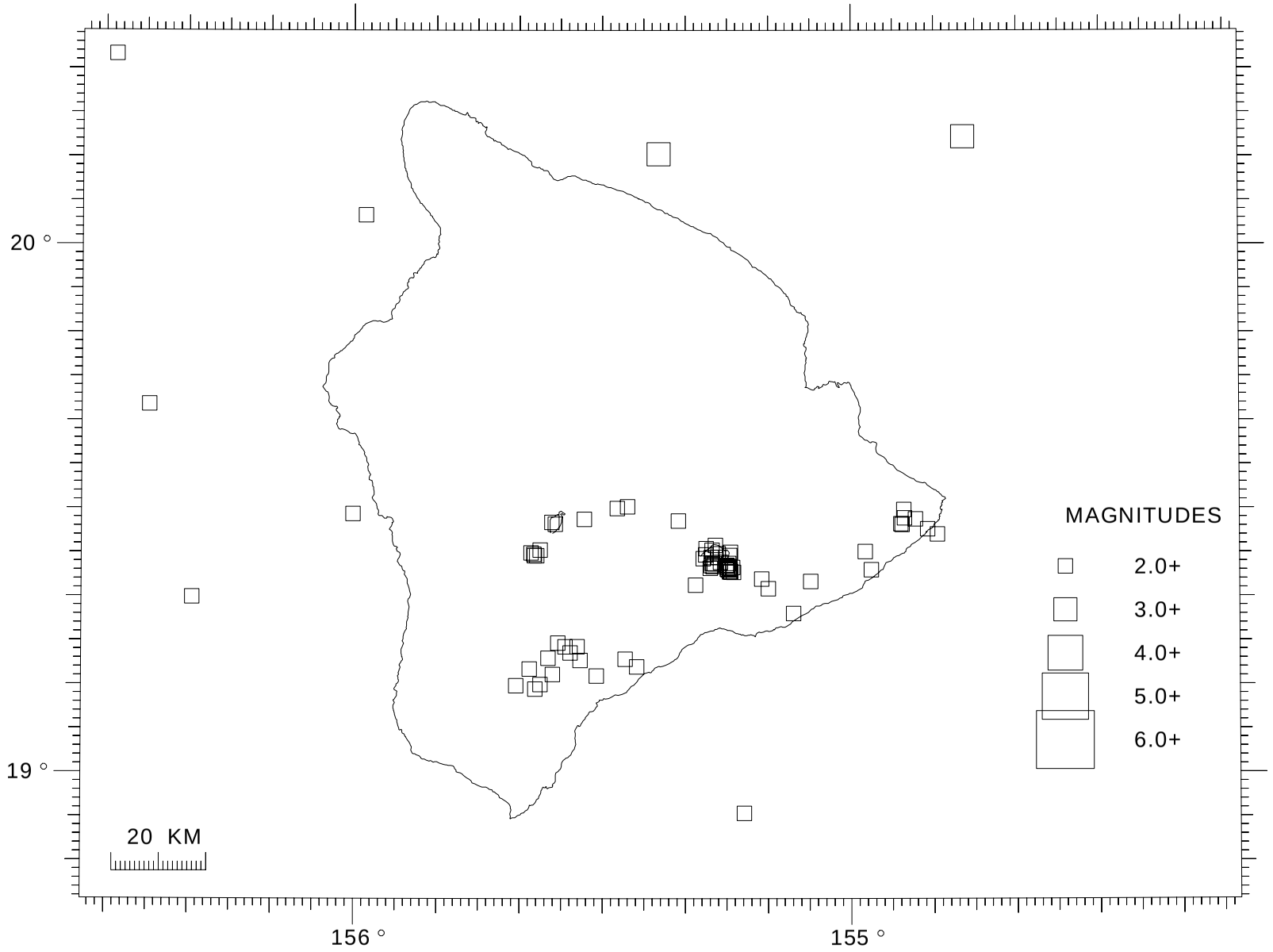


Figure 14. 2002 earthquake locations, Hawai`i Island, intermediate (5.1±13.0 km depth), M>=2.0.

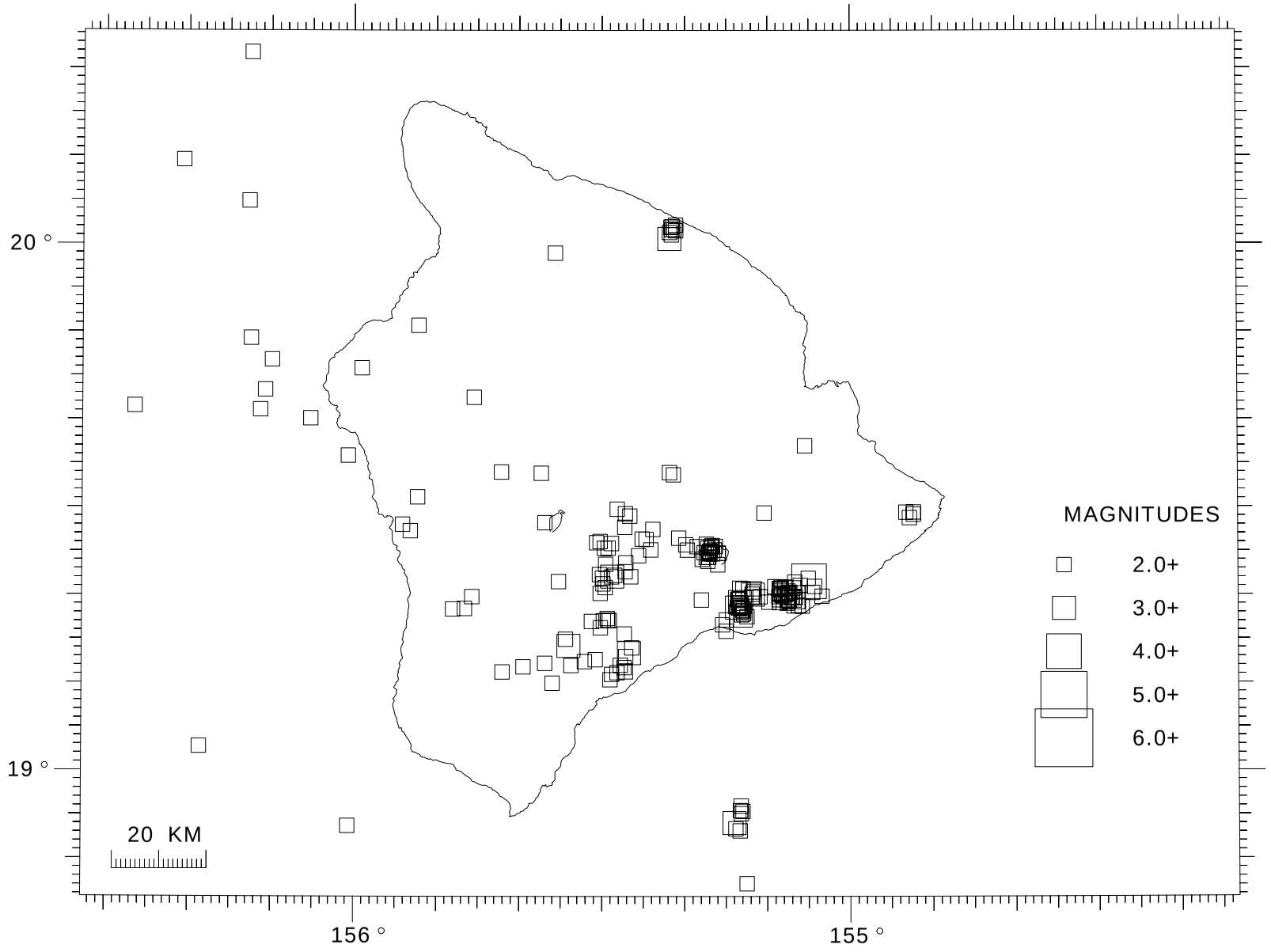


Figure 15. 2002 earthquake locations, Hawai`i Island, deep (13.1±60.0 km depth), M>=2.0.

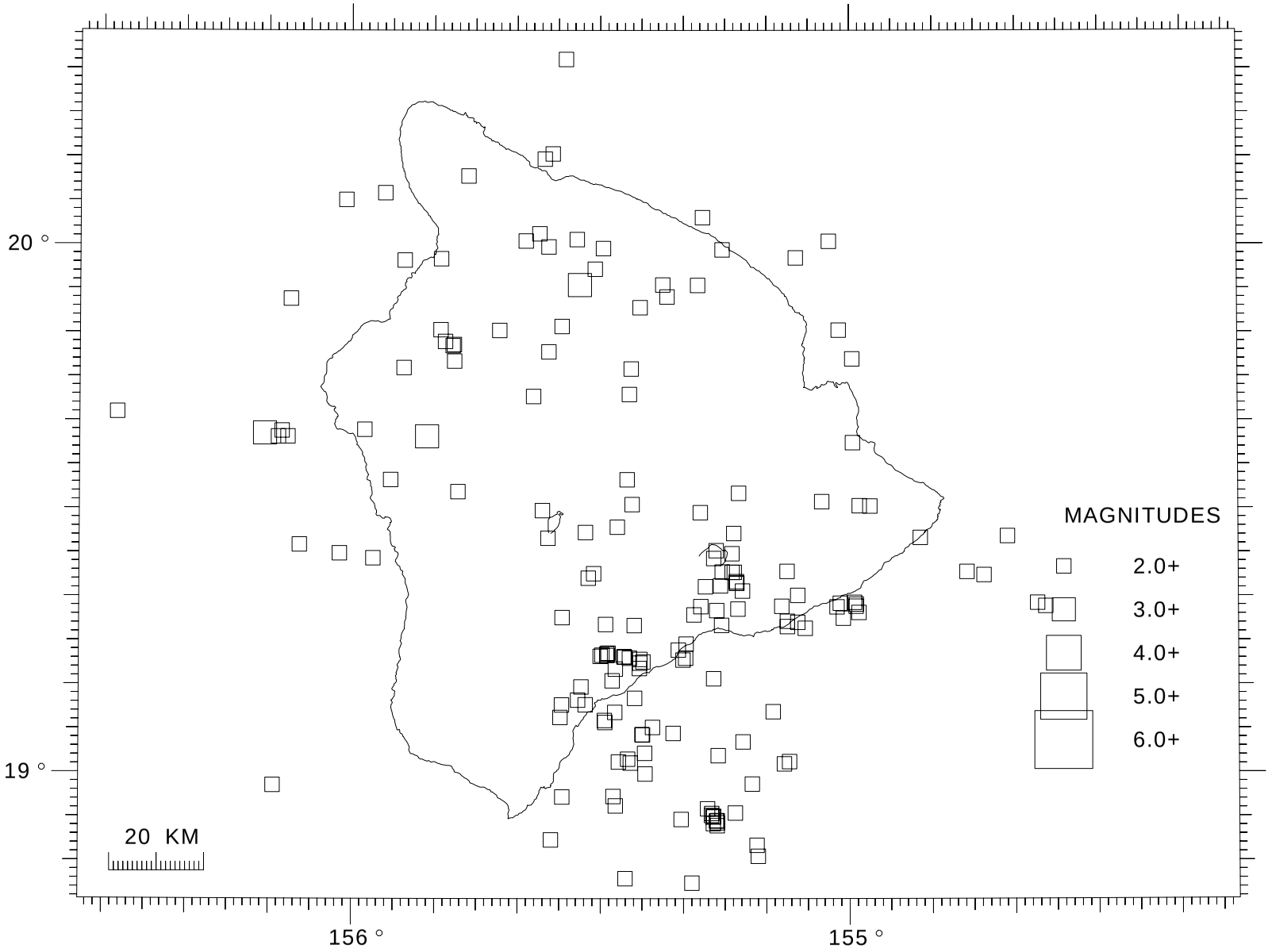


Figure 16. 2002 earthquake locations, Kilauea summit, shallow (0±5.0 km depth), M>=1.0.

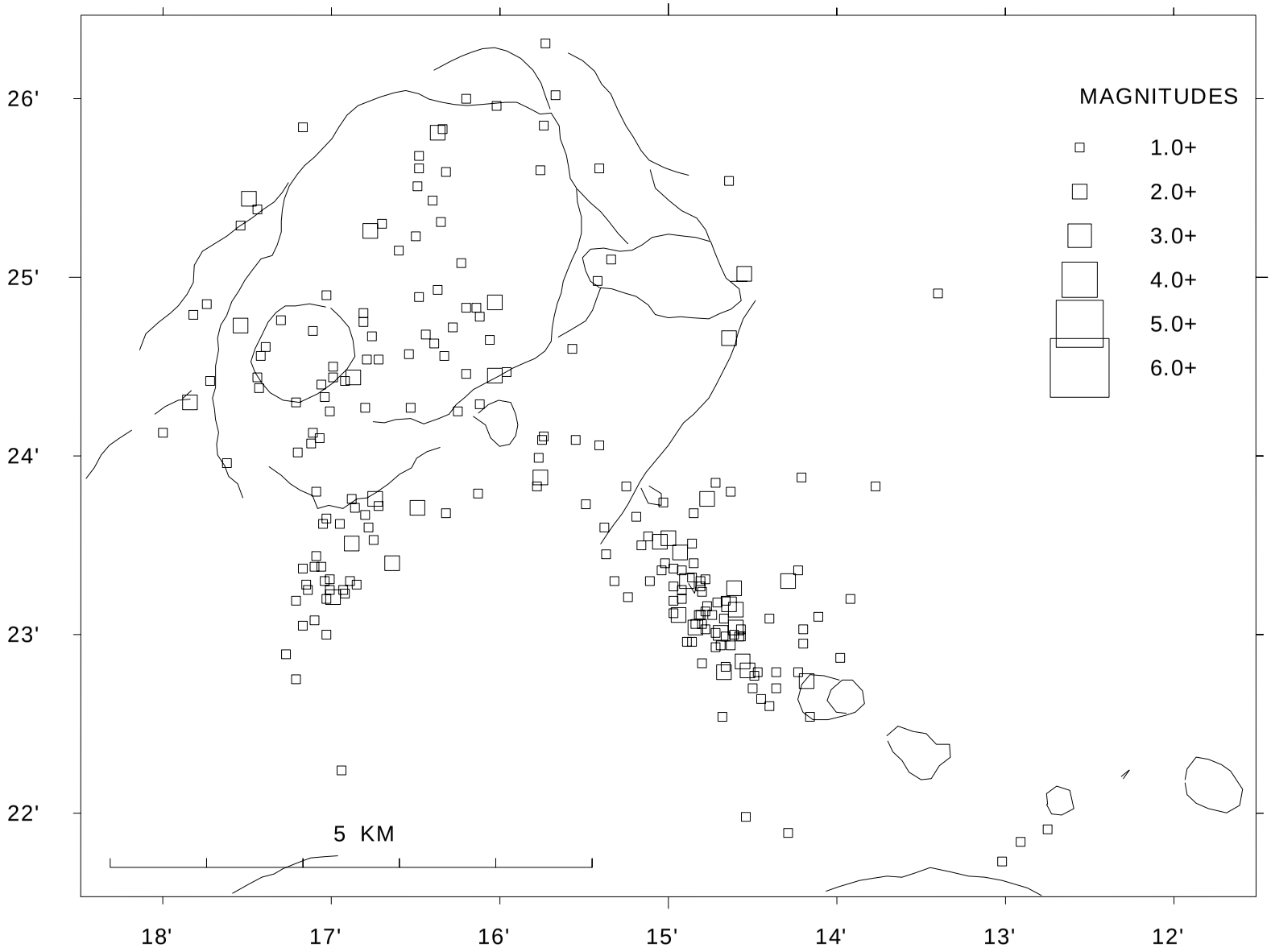


Figure 17. 2002 earthquake locations, Kilauea summit, intermediate (5.1±13.0 km depth), M>=1.0.

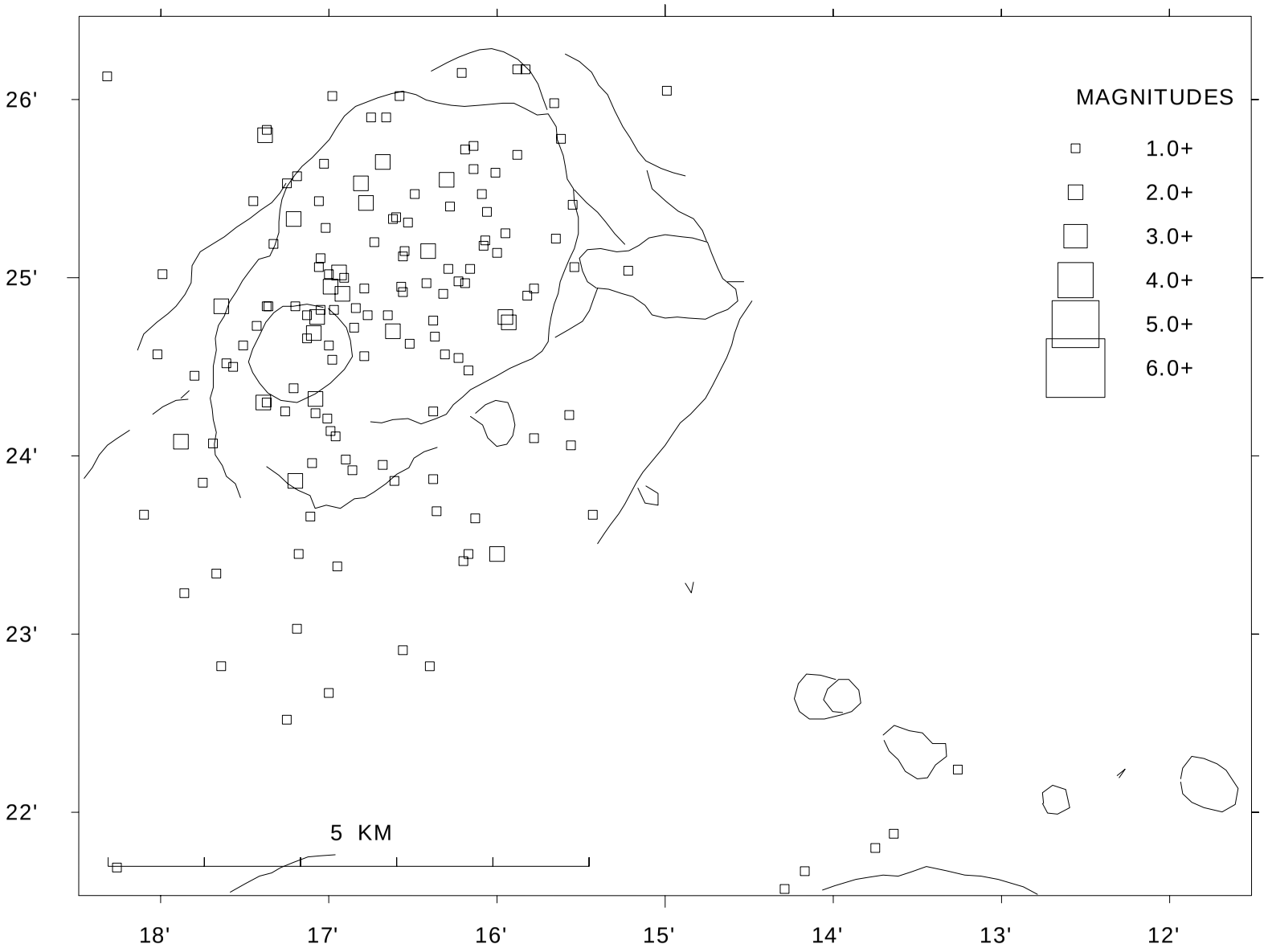


Figure 18. 2002 earthquake locations, Kilauea summit, deep (13.1±60.0 km depth), M>=1.0.

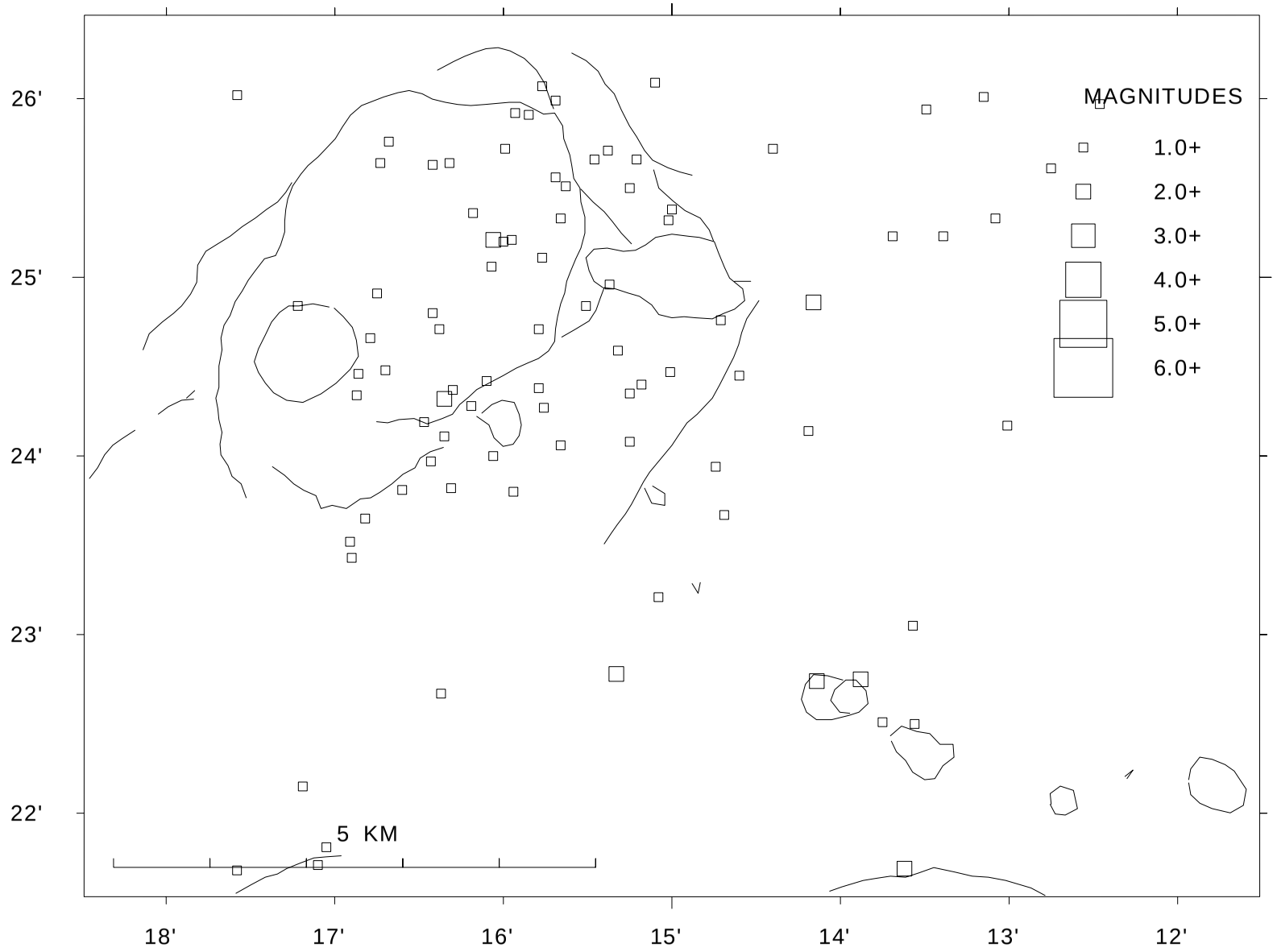


Figure 19. 2002 earthquake locations, Kilauea south flank, shallow (0±5.0 km depth), M>=2.0.

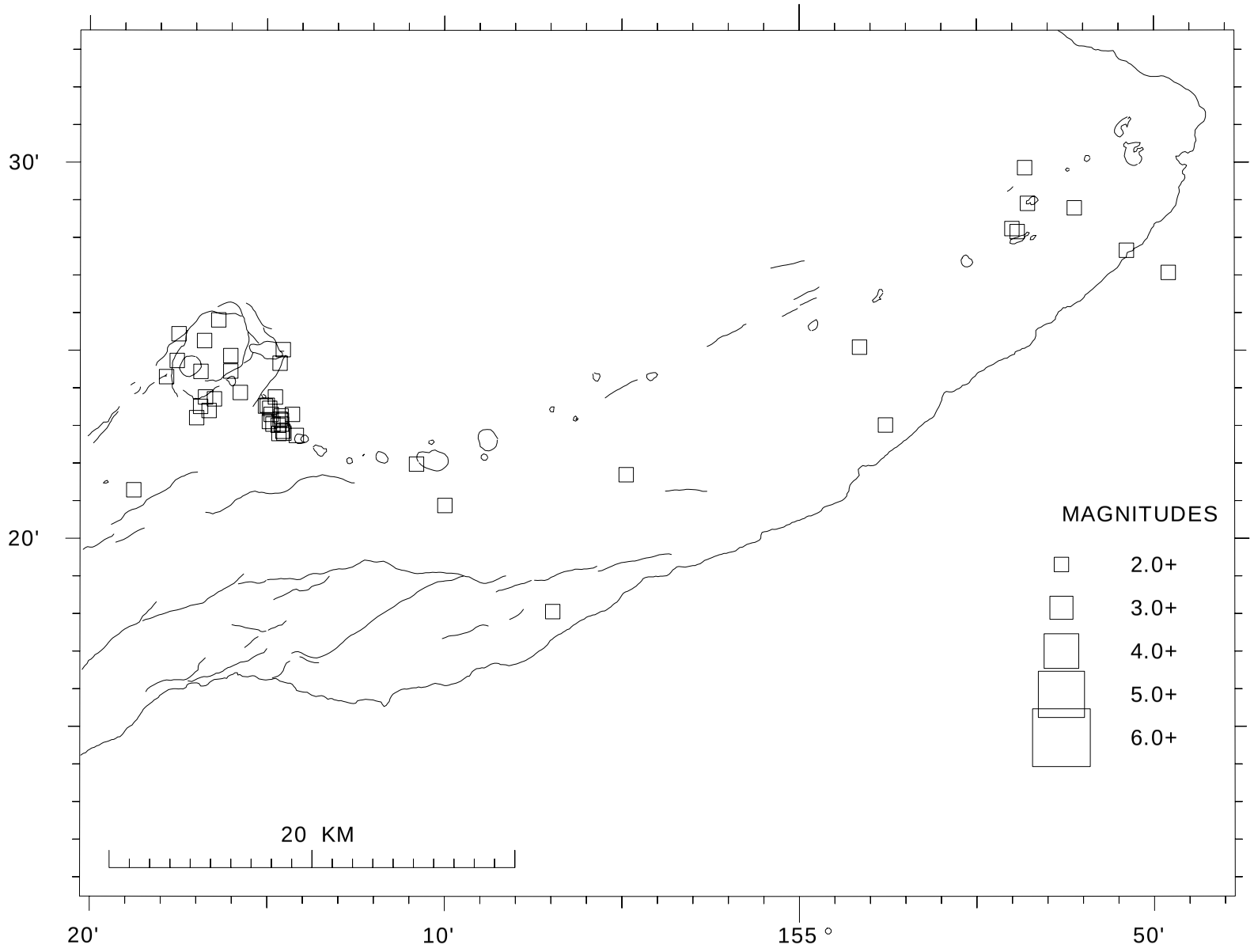


Figure 20. 2002 earthquake locations, Kilauea south flank, intermediate (5.1±13.0 km depth), M>=2.0.

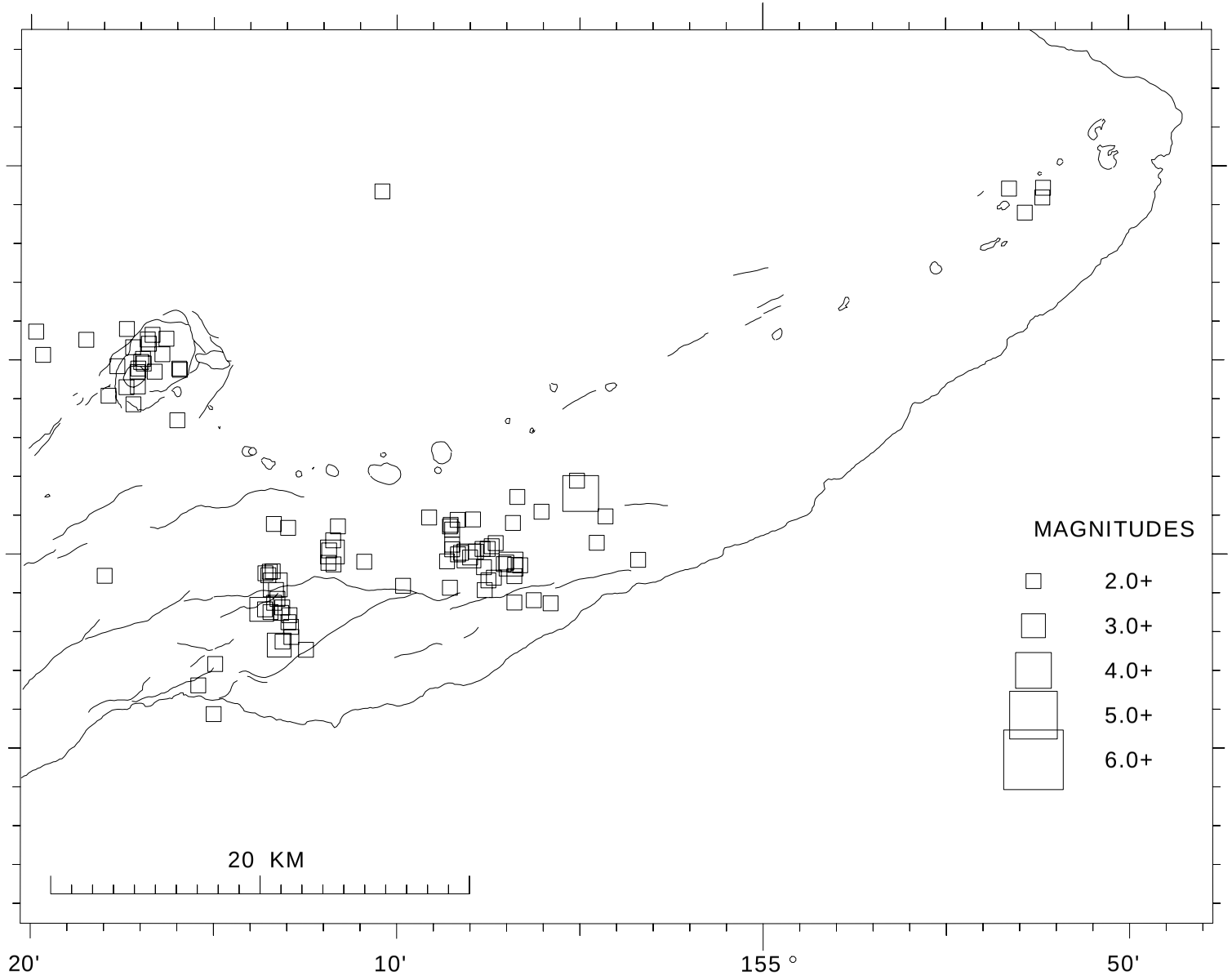


Figure 21. 2002 earthquake locations, Kilauea south flank, deep (13.1±60.0 km depth), M>=2.0.

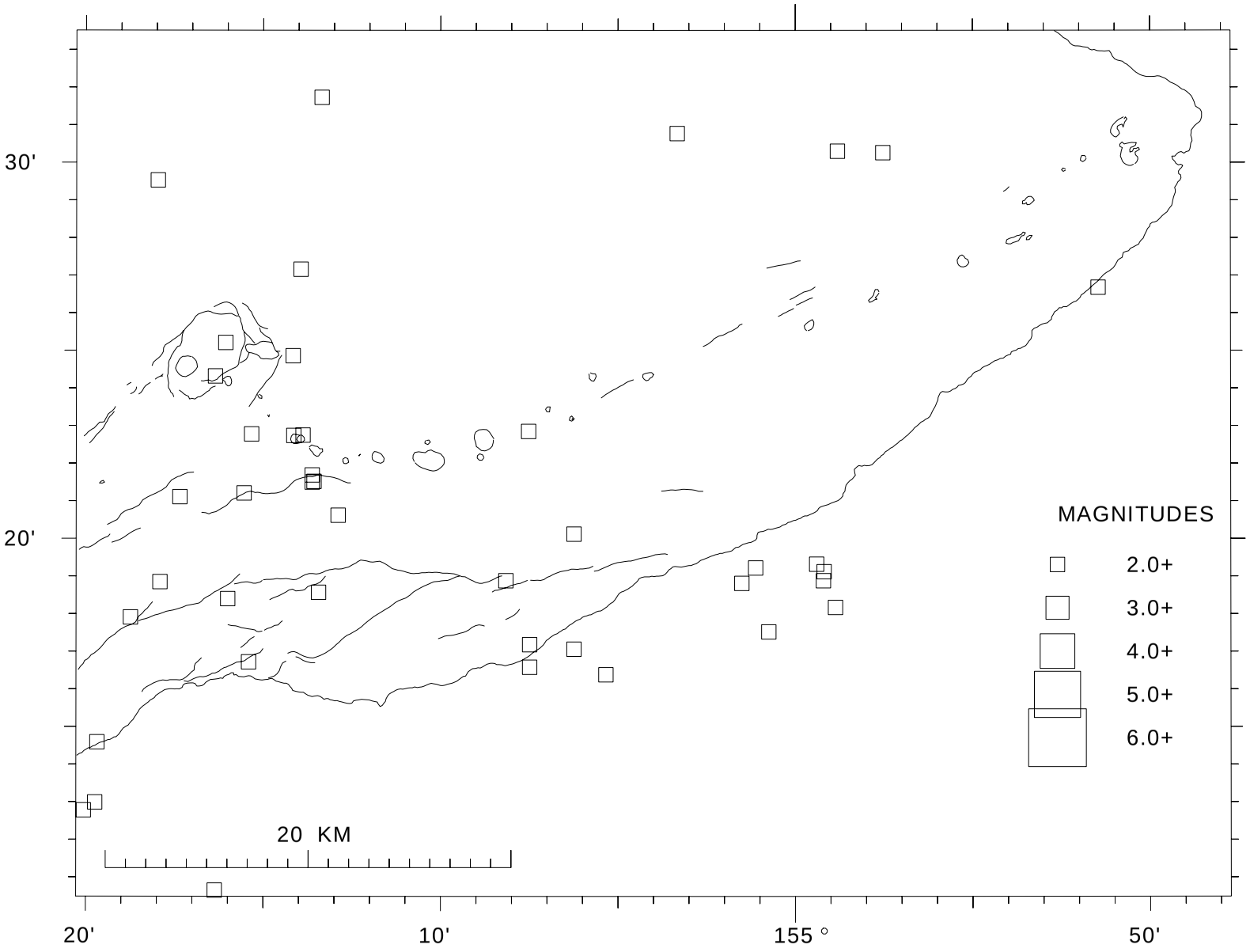


Figure 22. 2002 earthquake locations, Mauna Loa summit, shallow (0±5.0 km depth), M>=2.0.

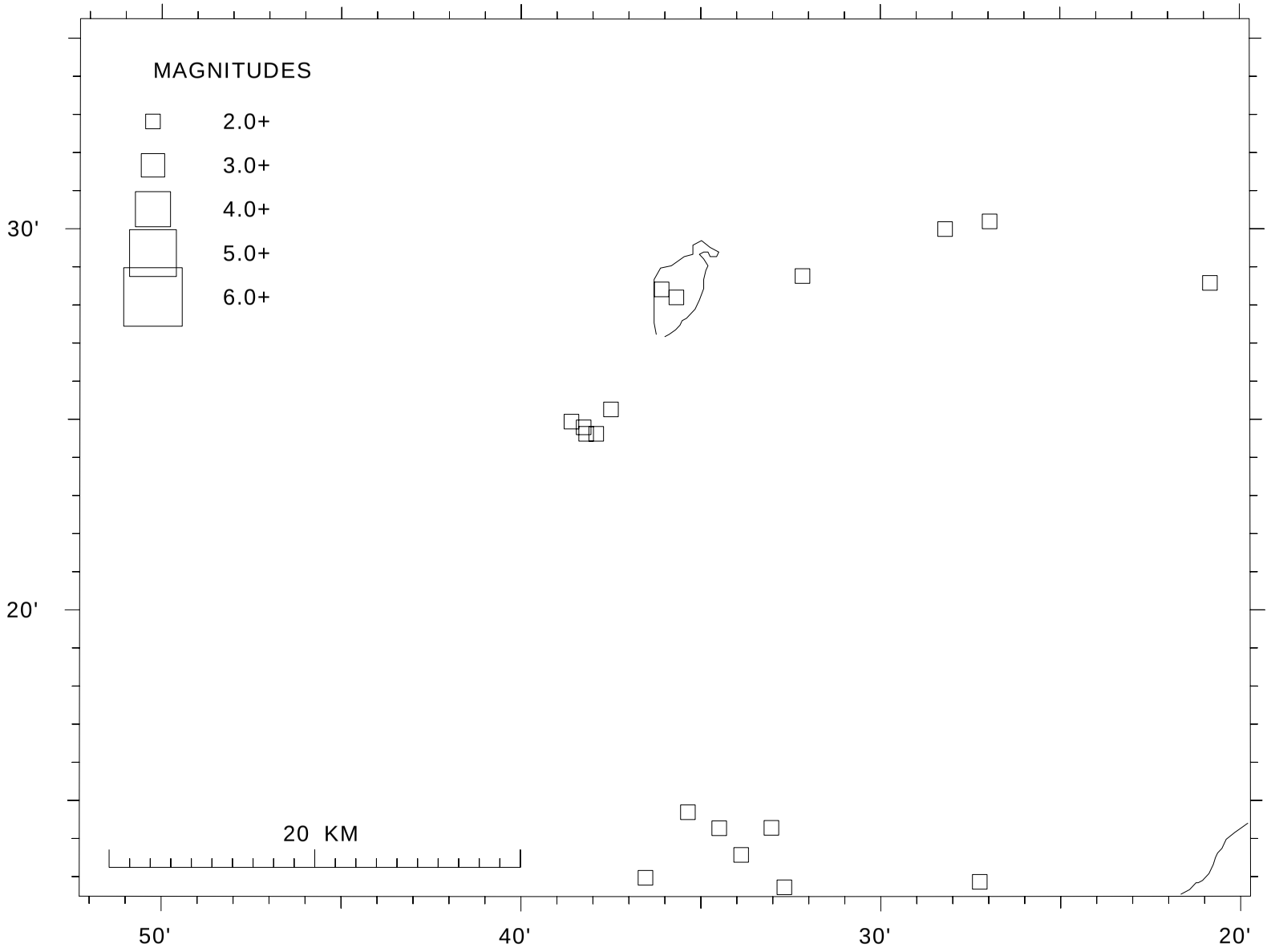


Figure 23. 2002 earthquake locations, Mauna Loa summit, intermediate (5.1±13.0 km depth), M>=2.0.

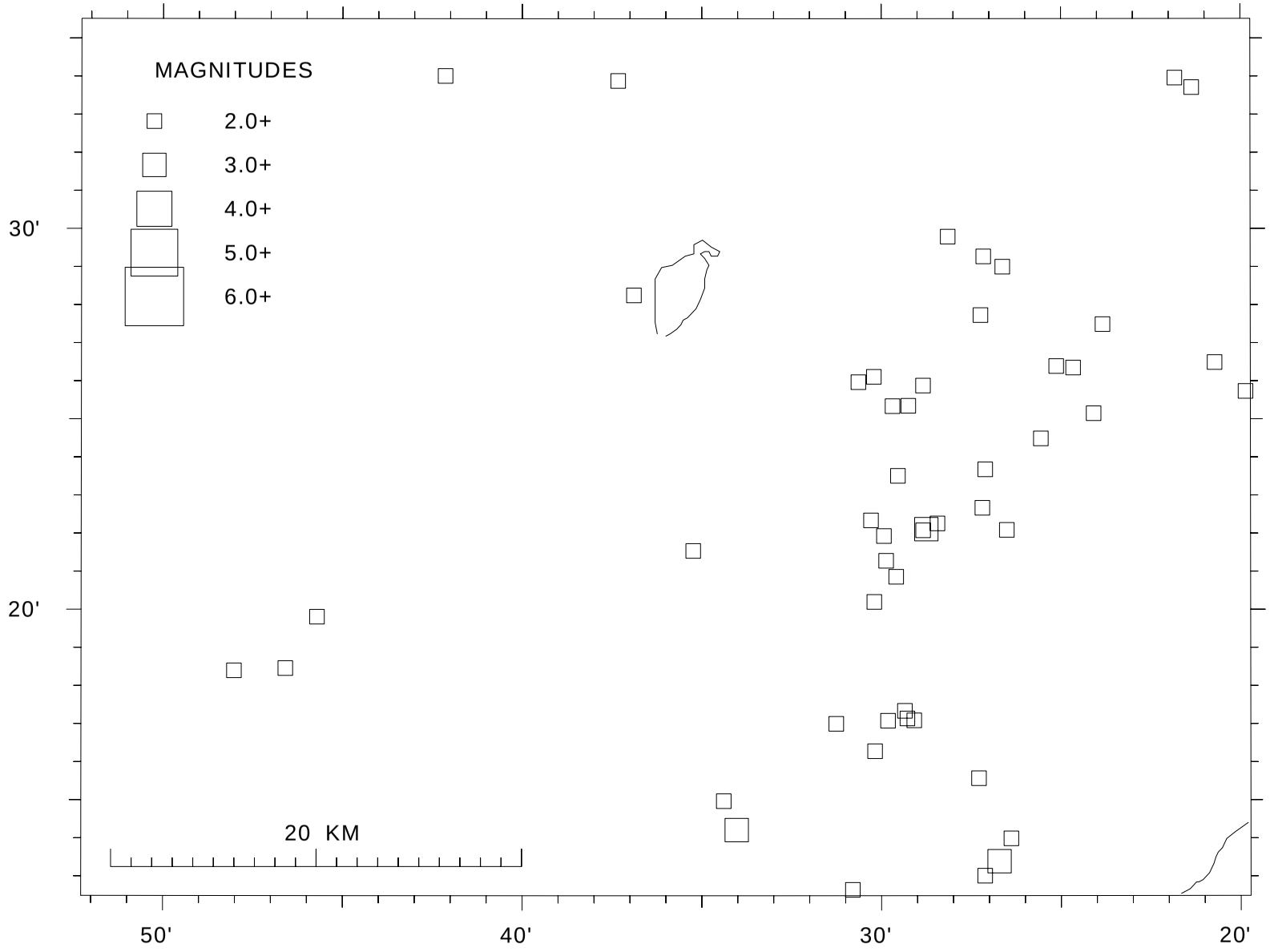


Figure 24. 2002 earthquake locations, Mauna Loa summit, deep (13.1±60.0 km depth), M>=2.0.

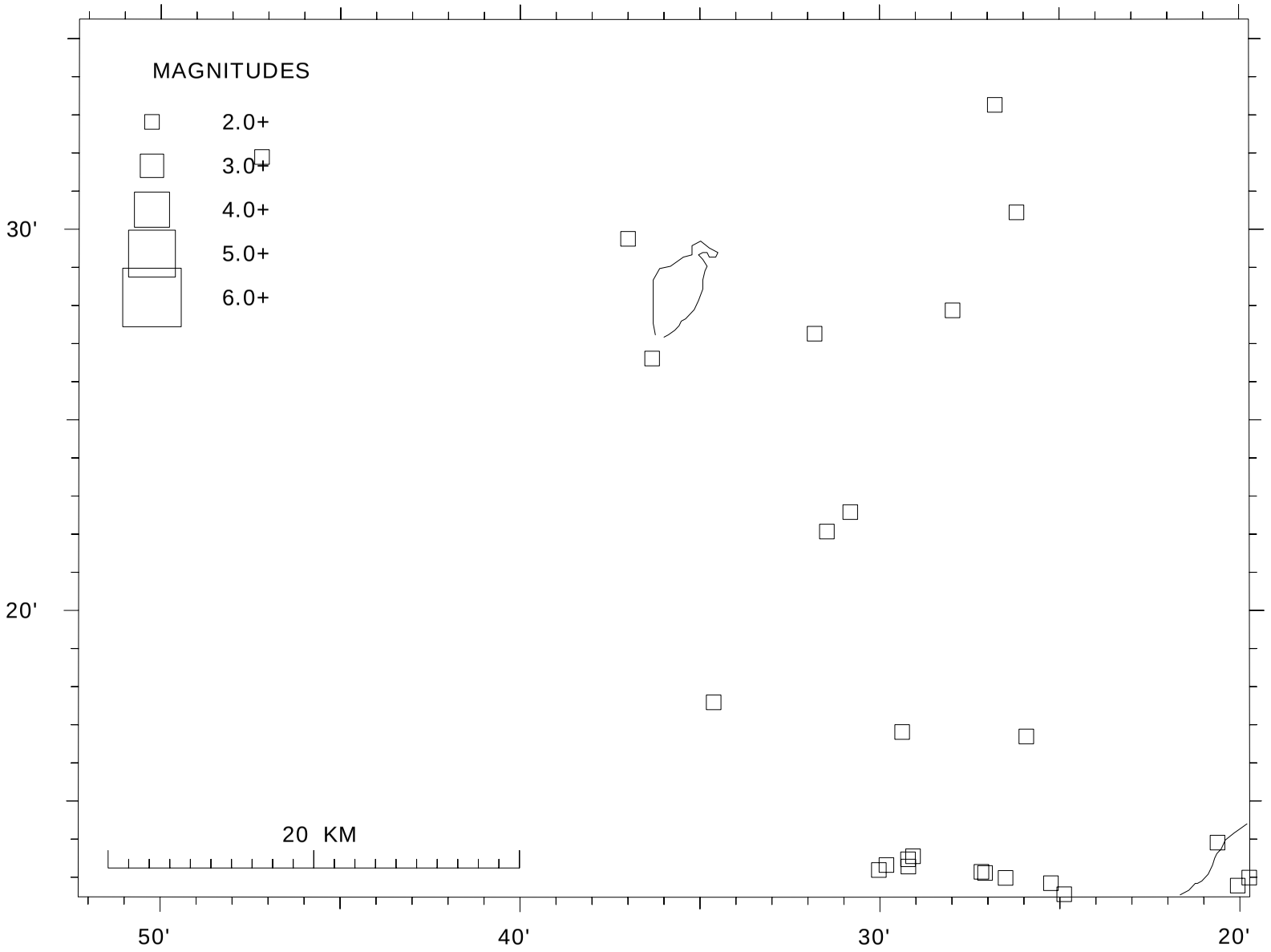


Table 4 is a chronological list of selected events successfully located during 2002. For each event, the following data are presented:

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.

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

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

Table 4.

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JAN	1	0554	50.01	19	19.02	155	13.03	9.61	33	4	.12	.5	.8	SF2	1.8X	123	7
2002	JAN	1	0656	30.73	18	50.75	155	9.36	44.38	17	4	.10	1.8	3.2	LOI	1.8X	284	47
2002	JAN	1	0940	19.97	19	18.53	155	13.18	6.13	33	3	.14	.5	1.0	SF2	1.6X	88	3
2002	JAN	2	0054	46.69	19	21.81	155	17.05	49.09	24	5	.13	1.2	1.1	DEP	1.0U	125	2
2002	JAN	2	0323	51.28	19	23.83	155	3.07	7.05	23	5	.17	.6	.7	SF5	1.3X	144	2
2002	JAN	2	0618	11.17	19	48.97	155	22.65	26.92	19	3	.10	1.1	1.2	KEA	1.1U	223	9
2002	JAN	2	1907	47.27	19	58.64	155	32.38	3.81	18	2	.14	1.5	1.6	KEA	1.4X	323	23
2002	JAN	3	0545	1.35	19	20.14	155	7.66	7.43	34	4	.09	.4	.6	SF4	2.0X	127	5
2002	JAN	3	0604	36.68	19	20.34	155	7.86	6.84	31	5	.11	.5	.8	SF4	1.5X	117	5
2002	JAN	3	0929	12.79	19	18.71	155	8.52	5.92	20	4	.07	.4	1.0	SF4	1.2X	96	3
2002	JAN	3	1007	37.88	19	21.10	155	5.24	5.12	26	4	.14	.6	1.7	SF5	1.3X	151	6
2002	JAN	3	1206	27.32	19	12.01	155	26.05	5.31	13	3	.07	.8	2.1	LSW	1.4X	176	6
2002	JAN	3	1323	44.88	18	47.42	155	19.00	50.94	29	7	.09	1.3	1.5	LOI	2.2X	272	42
2002	JAN	3	1821	54.33	19	10.57	155	16.40	42.79	28	4	.12	1.0	1.5	DEP	1.9X	216	13
2002	JAN	3	2017	6.87	19	58.46	155	31.05	8.19	18	1	.13	2.2	1.1	KEA	1.5X	289	22
2002	JAN	3	2253	2.38	19	17.22	155	27.52	11.86	25	7	.12	.4	.9	LSW	1.1X	53	6
2002	JAN	4	0815	0.50	19	18.69	155	27.49	8.28	26	4	.14	.4	.8	LSW	1.3X	50	7
2002	JAN	4	0926	50.98	19	25.20	155	29.31	13.16	22	4	.11	.5	1.1	DML	1.0X	65	6
2002	JAN	4	0949	36.79	19	23.10	155	29.88	10.05	19	4	.07	.4	.9	KAO	.9U	89	4
2002	JAN	4	2114	3.77	18	58.81	155	31.83	41.24	31	4	.07	1.0	1.5	DLS	1.9X	221	14
2002	JAN	4	2142	4.25	19	11.92	155	41.56	0.85	30	3	.17	.5	.7	LSW	1.9X	131	9
2002	JAN	5	0023	53.45	19	33.47	155	37.67	11.16	19	1	.14	1.7	1.1	MLO	1.3X	239	5
2002	JAN	5	0421	9.66	19	15.23	155	25.17	8.67	17	1	.08	.5	1.0	LSW	1.0X	76	3
2002	JAN	5	1215	27.36	19	19.29	155	11.75	4.89	20	2	.08	.5	2.0	SSF	1.0X	98	5
2002	JAN	5	1510	57.08	19	21.48	155	4.65	5.98	19	1	.11	.6	1.0	SF5	1.6X	161	5
2002	JAN	5	1536	41.68	19	12.89	155	27.85	0.50	31	6	.11	.3	.4	LSW	1.8X	105	6
2002	JAN	5	1738	46.57	19	15.94	155	6.52	42.66	23		.10	2.4	3.2	DEP	1.4X	222	4
2002	JAN	6	0309	44.74	19	20.10	155	7.41	7.04	24	3	.12	.5	1.1	SF4	1.2X	133	5
2002	JAN	6	0319	49.90	19	20.91	155	23.84	12.70	30	4	.09	.4	.5	SWR	1.5X	49	2
2002	JAN	6	0504	7.24	19	15.43	155	28.75	10.89	20	4	.14	.6	1.0	LSW	1.3X	79	2
2002	JAN	6	0624	26.16	19	15.83	155	26.04	6.42	23	3	.17	.5	1.4	LSW	1.2X	68	4
2002	JAN	6	0624	55.93	18	58.24	155	31.79	41.51	27	4	.08	1.1	1.7	DLS	1.9X	226	14
2002	JAN	6	0858	25.52	19	22.79	155	14.23	3.54	30	7	.09	.3	.3	SEC	1.7X	126	2
2002	JAN	6	1029	18.18	19	25.18	155	19.27	7.51	27	7	.10	.5	1.0	KAO	1.9X	120	3
2002	JAN	6	1409	59.44	19	24.44	155	16.99	1.78	15	5	.06	.6	.2	SSC	1.5X	116	1
2002	JAN	6	1525	35.45	19	23.40	155	15.02	2.77	14	5	.06	.3	.5	SEC	1.5X	140	2
2002	JAN	6	1601	3.16	19	18.67	154	59.08	38.85	27	3	.11	1.3	1.6	LER	1.6X	212	12
2002	JAN	6	1756	23.45	19	26.51	155	30.44	12.33	24	3	.10	.4	1.2	KAO	1.6X	59	5
2002	JAN	6	2116	1.82	19	25.27	155	30.54	10.33	34	6	.08	.3	.7	KAO	1.6X	37	7
2002	JAN	6	2220	49.27	19	33.27	155	18.35	6.01	14	3	.13	1.6	3.4	GLN	1.4X	247	11
2002	JAN	7	0031	47.25	19	15.38	155	33.24	6.79	19	2	.16	.8	2.1	LSW	1.6X	104	5
2002	JAN	7	0329	39.37	19	18.27	154	59.42	38.46	27	2	.10	1.7	1.7	LER	1.4X	238	13
2002	JAN	7	0432	15.18	19	33.02	155	38.37	10.50	25	4	.12	.9	.8	MLO	1.5X	232	8
2002	JAN	7	0440	56.07	19	21.86	155	48.59	12.28	17	1	.13	1.9	.9	KON	1.4U	242	15
2002	JAN	7	1109	22.86	19	12.73	155	29.28	42.06	26	6	.08	.8	1.3	DLS	1.9X	80	5
2002	JAN	7	1419	9.34	19	26.72	155	51.56	23.17	18	4	.10	1.2	2.0	KON	1.4X	263	22
2002	JAN	7	1820	38.09	20	9.71	155	36.71	31.43	4311		.11	1.0	2.8	KOH	2.5X	300	45
2002	JAN	7	1908	38.47	19	19.83	155	20.48	28.65	25	4	.12	.8	1.4	DEP	1.1X	76	5
2002	JAN	8	0208	19.90	19	20.77	155	6.62	7.39	20	5	.11	.6	.9	SF4	.9X	142	5
2002	JAN	8	0301	21.99	19	29.07	155	27.70	7.36	29	7	.10	.3	.9	KAO	1.5X	79	5
2002	JAN	8	0347	23.97	19	11.61	155	53.72	18.77	16	1	.11	3.2	3.0	KON	1.3U	293	14
2002	JAN	8	1522	3.19	17	39.69	155	4.42	36.61	29	4	.09	2.5	3.5	DIS	3.1X	331	159
2002	JAN	8	1646	50.83	19	17.52	155	29.30	9.89	19	3	.14	.5	1.0	LSW	1.2X	48	5
2002	JAN	8	1832	10.37	19	25.01	155	29.15	10.64	22	4	.08	.4	1.0	KAO	1.1X	65	5
2002	JAN	8	1900	45.00	20	1.90	155	45.32	6.08	23	6	.09	1.9	1.0	KOH	1.6X	322	55
2002	JAN	8	2146	52.72	18	47.93	155	27.03	33.38	39	8	.10	1.1	1.9	DLS	2.2X	272	30
2002	JAN	8	2213	31.50	19	25.11	155	1.53	5.19	14	3	.17	1.3	1.9	SF5	1.3X	155	5
2002	JAN	9	0209	7.62	19	26.54	155	29.47	9.01	30	7	.11	.3	.9	KAO	1.2X	43	7
2002	JAN	9	0242	58.58	19	21.84	155	12.91	3.08	16	4	.09	.7	.4	SER	1.4X	85	1
2002	JAN	9	0637	15.23	19	24.20	155	25.57	0.86	15	2	.14	.4	1.0	KAO	1.2U	59	5
2002	JAN	9	0842	30.49	19	19.46	155	13.51	8.62	38	4	.12	.4	.6	SF2	2.4X	120	6
2002	JAN	9	1520	57.87	19	27.08	155	29.27	9.18	30	5	.11	.3	1.0	KAO	1.4X	47	9
2002	JAN	9	1554	44.09	19	11.62	155	36.72	0.02	15	3	.19	.6	.4	LSW #	1.2X	90	13
2002	JAN	9	1756	13.30	19	13.76	155	36.43	8.86	14	1	.12	.6	3.0	LSW	1.1X	127	11
2002	JAN	9	1922	39.58	19	18.37	155	13.49	8.58	29	5	.11	.5	.6	SF2	1.5X	79	2
2002	JAN	9	2017	55.31	19	18.40	155	13.72	8.26	40	7	.11	.4	.5	SF2	1.8X	70	3
2002	JAN	9	2100	14.37	19	14.69	155	33.12	5.21	22	3	.17	.4	2.5	LSW	1.2X	70	5
2002	JAN	9	2244	11.95	19	18.94	155	8.31	6.54	35	5	.10	.5	.7	SF4	1.5X	105	3
2002	JAN	9	2248	5.34	19	14.91	155	32.43	7.57	14	4	.16	.8	1.9	LSW	1.3X	172	4
2002	JAN	10	0235	49.97	19	29.16	155	25.33	5.87	4411		.12	.3	.7	KAO	1.8X	65	4
2002	JAN	10	0247	7.99	20	32.68	156	2.54	36.05	16	3	.10	3.0	1.5	DIS	1.8X	205	31
2002	JAN	10	0918	13.71	18	59.88	155	20.65	34.41	31	6	.09	1.1	1.6	LOI	1.8X	234	22
2002	JAN	10	1000	15.60	19	29.18	155	26.91	13.06	20	4	.09	.4	1.0	DML	.9X	80	5
2002	JAN	10	1104	53.67	18	59.83	155	24.63	31.93	35	6	.09	.9	1.5	LOI	2.2X	222	19
2002	JAN	10	1402	50.75	19	19.67	155	7.62	7.22	38	4	.08	.3	.5	SF4	2.3X	125	4
2002	JAN	10	1455	35.85	19	21.52	155	11.24	2.93	16	5	.09	.4	.5	SER	1.8X	119	3
2002	JAN	10	1743	10.44	20	14.63	156	25.34	47.90	15	4	.12	2.3	3.0	DIS	2.0X	213	51
2002	JAN	10	1805	7.18	19	12.49	155	32.00	7.83	17	3	.12	.6	1.6	LSW	1.1X	130	6
2002	JAN	10	1909	32.02	19	28.55	155	23.45	12.88	17	5	.11	.6	1.0	KAO	1.4X	113	2
2002	JAN	10	1957	8.32	19	33.27	155	26.79	23.87	5013		.10	.4	.7	DMLF	2.7X	46	3
2002	JAN	10	2025	47.58	20	4.92	156	12.70	12.62	25	6	.16	1.1	2.9	KOH	2.2X	191	45
2002	JAN	11	0014	38.58	19	20.39	155	13.10	6.64	20	1	.12	.6	1.0	SF2	1.1X	65	4
2002	JAN	11	0622	5.88	19	49.95	155	33.60	14.70	16	3	.16	1.1	1.1	KEA	1.5X	189	26
2002	JAN	11	0905	43.20	19	21.46	155	4.68	6.28	20	2	.12	.7	1.2	SF5	1.6X	161	5
2002	JAN	11	1229	52.84	19	30.77	155	3.33	48.06	4511		.12	.7	.9	DEP	2.4X	99	12
2002	JAN	11	1504	43.61	19	14.60	155	27.88	6.02	20	2	.19	.6	1.8	LSW	1.5X	85	4
2002	JAN	11	1508	6.60	19	14.02	155	28.36	7.42	30	6	.16	.4	1.0	LSW	1.5X	89	4
2002	JAN	11	1549	10.85	20	0.87	155	31.70	4.55	29	4	.13	.7	1.0	KEA	1.9X	187	24
2002	JAN	11	1550	51.05	19	59.13	155	32.55	2.64	18	5	.09	.5	.9	KEA	1.5X	173	23
2002	JAN	12	0641	37.13	19	20.91	155	4.50	7.06	25	5	.11	.6	1.2	SF5	1.7X	170	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JAN	12	0729	51.40	19	27.53	155	13.97	28.46	38	8	.11	.6	.9	DEP	1.5X	52	7
2002	JAN	12	1143	2.01	19	18.57	155	13.44	35.72	5013		.12	.6	.8	DEP	2.6X	78	3
2002	JAN	12	1528	9.35	20	51.29	156	3.52	22.03	31	4	.10	1.6	2.4	DIS	2.6X	250	26
2002	JAN	12	1831	59.61	19	25.20	155	18.59	7.49	20	5	.08	.6	.9	INT	1.3X	119	2
2002	JAN	12	1835	55.89	19	24.92	155	19.20	4.64	20	6	.08	.5	1.4	KAO	1.4X	110	3
2002	JAN	12	1855	52.98	19	24.95	155	18.93	6.41	27	6	.08	.4	.8	INT	1.8X	110	2
2002	JAN	12	1913	47.66	19	11.45	155	27.74	2.83	20	3	.15	.8	1.6	LSW	1.7X	112	4
2002	JAN	13	0241	17.23	19	18.17	155	30.41	9.04	25	2	.15	.5	1.2	LSW	1.5X	65	6
2002	JAN	13	0443	9.12	19	12.06	155	30.13	8.61	18	2	.09	.5	.7	LSW	1.5X	175	6
2002	JAN	13	0840	47.82	19	19.66	155	11.04	4.55	20	3	.08	.4	2.7	SSF	1.3X	94	5
2002	JAN	13	2023	8.29	19	24.29	155	17.57	1.78	12	5	.05	.7	.5	SSC	.9X	88	1
2002	JAN	13	2337	11.91	19	19.24	155	16.15	6.30	27	5	.11	.4	1.1	SF1	1.5X	98	5
2002	JAN	14	0048	32.12	19	23.26	155	30.22	10.08	22	2	.05	.4	.9	KAO	1.4X	80	5
2002	JAN	14	0415	15.38	19	23.71	155	16.49	2.99	34	7	.11	.3	.2	SEC	2.2X	101	0
2002	JAN	14	0415	39.41	19	23.38	155	17.06	2.77	15	5	.08	.6	.3	SSC	1.8X	76	0
2002	JAN	14	0604	37.64	19	13.79	155	31.23	8.68	18	2	.12	.5	.9	LSW	1.7X	109	3
2002	JAN	14	0636	35.00	19	29.55	155	46.17	7.42	21	3	.13	.7	.9	KON	1.6X	163	2
2002	JAN	14	1153	6.04	19	19.34	155	8.23	6.59	18	3	.12	.6	1.4	SF4	.9X	134	4
2002	JAN	14	1407	38.77	19	21.62	155	10.17	3.30	21	5	.08	.4	.3	SER	1.5X	81	1
2002	JAN	14	2204	48.17	19	19.96	155	6.79	8.02	26	4	.08	.5	.7	SF4	1.4X	148	5
2002	JAN	14	2341	2.36	19	29.60	155	27.03	5.16	26	5	.12	.3	1.6	KAO	1.7X	87	5
2002	JAN	15	0128	3.62	19	11.35	155	37.20	8.16	26	3	.12	.4	1.0	LSW	2.0X	91	14
2002	JAN	15	0231	48.23	19	11.53	155	36.96	6.13	25	3	.15	.4	3.1	LSW	1.5X	90	14
2002	JAN	15	0640	17.59	19	29.06	155	27.69	7.13	29	7	.11	.3	1.3	KAO	1.4X	79	5
2002	JAN	15	0737	45.60	19	25.85	155	29.71	12.35	17	4	.10	.6	1.1	KAO	.9X	71	6
2002	JAN	15	1229	17.44	19	55.99	155	20.20	19.87	20	6	.12	.7	.9	KEA	1.5X	192	5
2002	JAN	15	1431	0.94	19	24.42	155	16.92	1.50	12	3	.08	.4	.3	SSC	1.5X	92	1
2002	JAN	15	1439	22.06	19	19.35	155	11.33	4.82	28	4	.11	.4	1.7	SSF	1.4X	101	6
2002	JAN	15	1722	16.48	19	24.25	155	17.26	8.74	12	4	.06	1.2	.8	INTL	1.6X	133	1
2002	JAN	15	2024	21.20	19	24.21	155	17.01	10.45	16	5	.19	1.5	1.2	INTL	1.9X	113	1
2002	JAN	16	0429	7.09	19	25.91	155	15.85	15.22	28	5	.10	.6	.4	DEP	1.4X	119	3
2002	JAN	16	0516	36.24	19	25.78	155	15.62	6.14	17	6	.11	.9	.7	INTL	1.7X	235	3
2002	JAN	16	0954	6.08	19	18.92	155	8.40	9.10	26	5	.08	.5	.7	SF4	1.4X	109	3
2002	JAN	16	1103	3.93	19	24.29	155	16.12	4.69	14	4	.13	1.0	.6	SECL	1.7X	211	1
2002	JAN	16	1428	51.35	19	20.23	155	7.72	6.53	17	4	.11	.5	1.1	SF4	1.2X	125	5
2002	JAN	16	1710	51.70	19	53.87	155	22.07	27.51	34	9	.09	.6	1.1	KEA	2.0X	243	3
2002	JAN	16	1733	12.41	19	24.62	155	17.51	8.55	14	4	.10	.7	.6	INTL	1.9X	65	1
2002	JAN	16	2135	48.85	19	40.16	155	50.99	24.65	18	6	.17	1.5	2.5	HUA	1.5X	219	2
2002	JAN	16	2341	22.27	19	19.84	155	8.33	6.18	27	2	.09	.4	.8	SF4	1.4X	112	5
2002	JAN	17	0059	51.16	19	24.32	155	16.35	15.53	16	3	.11	1.1	.7	DEPL	2.1X	163	1
2002	JAN	17	1046	19.71	19	28.38	155	25.26	9.99	17	3	.09	.6	1.0	KAO	1.3X	60	4
2002	JAN	17	1523	8.02	19	24.13	155	20.48	2.95	19	4	.10	.4	1.1	KAO	1.1X	90	6
2002	JAN	17	1641	3.86	19	19.34	155	12.08	3.82	32	8	.12	.3	1.0	SSF	1.4X	94	5
2002	JAN	17	1655	16.48	19	23.00	155	14.61	2.16	15	6	.11	.3	.3	SEC	1.4X	150	3
2002	JAN	18	0118	14.50	19	21.57	155	4.98	9.08	4913		.13	.5	.4	SF5F	4.1U	149	5
2002	JAN	18	0356	5.12	19	19.31	155	11.17	4.25	25	6	.10	.3	1.7	SSF	1.4X	102	6
2002	JAN	18	0428	55.94	19	21.06	155	3.70	6.82	21	5	.13	.6	.9	SF5	1.3X	177	6
2002	JAN	18	0828	26.52	19	29.45	155	23.98	3.81	31	7	.11	.3	.4	KAO	1.8X	62	1
2002	JAN	18	1232	43.05	19	20.46	155	13.33	5.82	29	5	.13	.4	.9	SF2	1.5X	62	4
2002	JAN	18	1257	15.69	19	20.53	155	13.30	5.36	32	6	.11	.4	1.0	SF2	1.5X	62	4
2002	JAN	18	1528	57.88	19	21.90	155	4.75	7.20	27	6	.10	.5	.8	SF5	1.4X	154	5
2002	JAN	18	2213	46.66	18	54.07	155	5.96	8.68	19	4	.14	1.8	.9	LOI	1.8X	311	43
2002	JAN	19	0402	54.53	18	50.81	155	10.67	10.62	26	4	.11	1.5	.8	LOI	1.8X	273	46
2002	JAN	19	0512	33.25	19	19.93	155	3.91	32.85	22	4	.08	1.1	1.3	DEP	1.7X	210	8
2002	JAN	19	0824	34.11	19	33.44	155	38.35	13.26	18	5	.13	.9	1.3	DML	1.5X	182	6
2002	JAN	19	1035	52.86	19	10.08	155	34.49	8.45	20	4	.08	.8	1.2	LSW	1.3X	238	12
2002	JAN	19	1447	54.06	19	40.09	156	2.81	6.33	14	4	.16	1.8	.8	HUA	1.8X	301	22
2002	JAN	19	1733	33.46	19	21.10	155	5.67	6.22	28	5	.12	.5	.9	SF4	1.5X	152	5
2002	JAN	19	1826	28.09	18	49.22	155	8.99	14.57	23	4	.14	7.81	1.9	LOI -	2.0X	316	50
2002	JAN	19	1853	27.67	19	15.02	155	27.04	8.76	23	3	.15	.4	.9	LSW	1.5X	86	5
2002	JAN	19	2128	30.92	19	20.33	155	13.06	8.44	32	7	.11	.4	.5	SF2	1.5X	66	4
2002	JAN	20	0221	35.25	19	19.96	155	11.12	8.38	28	3	.08	.5	.6	SF3	1.4X	88	4
2002	JAN	20	0600	4.50	18	47.62	155	9.80	13.72	18	3	.15	6.91	0.5	LOI -	1.8X	288	55
2002	JAN	20	1102	12.72	19	19.98	155	10.85	6.18	23	3	.09	.5	1.1	SF3	1.4X	91	4
2002	JAN	20	1132	41.79	19	15.84	155	31.94	6.73	37	6	.17	.4	1.2	LSW	1.9X	62	3
2002	JAN	20	1221	18.13	19	20.39	155	8.87	3.49	29	5	.13	.4	.7	SSF	1.4X	100	4
2002	JAN	20	1421	24.93	19	18.67	155	27.08	10.02	23	3	.09	.4	.8	LSW	1.4X	64	7
2002	JAN	20	1905	1.85	19	23.43	155	16.90	27.37	30	4	.12	.7	1.1	DEP	1.7X	48	1
2002	JAN	20	2145	28.82	18	53.71	156	0.71	11.13	22		.11	9.5	1.7	DIS	2.0X	296	38
2002	JAN	20	2210	10.02	19	12.34	155	13.90	50.92	23	1	.10	1.5	2.6	DEPT	1.9X	261	9
2002	JAN	21	0252	47.42	19	29.76	155	37.00	15.73	12		.12	1.6	1.4	DML	2.0X	196	2
2002	JAN	21	0305	0.48	19	25.31	155	30.80	11.69	27	3	.09	.4	1.0	KAO	1.5X	46	8
2002	JAN	21	0318	49.50	19	22.44	155	29.97	8.55	31	2	.13	.4	1.1	KAO	1.7X	35	4
2002	JAN	21	0319	8.73	19	22.48	155	29.82	8.78	29	2	.12	.4	.9	KAO	1.7X	35	4
2002	JAN	21	0408	14.38	19	20.03	155	11.90	6.38	20	1	.10	.5	1.2	SF3	1.2X	82	5
2002	JAN	21	0501	49.15	19	26.74	155	17.53	12.55	9	3	.17	3.7	1.6	INTL	2.0X	287	2
2002	JAN	21	1022	31.68	19	18.39	155	0.72	36.03	28	1	.09	2.1	2.1	DEP	1.9X	223	12
2002	JAN	21	1122	29.70	19	27.11	155	46.95	14.92	12		.06	1.4	.7	KON	1.0X	172	16
2002	JAN	21	1325	16.44	19	19.51	155	8.33	5.81	26	1	.11	.5	1.2	SF4	1.1X	112	4
2002	JAN	21	1826	10.11	19	24.70	155	29.60	11.29	16	2	.06	.5	1.2	KAO	1.4X	100	5
2002	JAN	21	2151	55.10	19	56.16	156	42.12	3.99	25	5	.18	2.5	2.5	DIS	2.1X	247	94
2002	JAN	22	0244	33.17	19	47.69	155	25.83	28.66	23	3	.11	1.8	1.2	KEA	1.4X	264	3
2002	JAN	22	0436	58.90	19	14.08	155	36.70	6.12	29	2	.16	.4	2.0	LSW	1.8X	92	12
2002	JAN	22	0535	54.40	19	16.46	155	14.79	4.94	16	1	.13	.9	1.2	SSF	1.0X	175	3
2002	JAN	22	0542	36.48	19	17.45	155	14.58	4.21	34	4	.13	.4	.9	SSF	1.3X	126	2
2002	JAN	22	0553	42.96	19	20.20	155	7.37	5.37	25	1	.16	.6	1.5	SF4	.9X	133	5
2002	JAN	22	1750	58.68	19	17.80	155	29.37	32.04	23	3	.07	.7	1.4	DLS	1.5X	48	5
2002	JAN	22	1957	47.63	19	27.03	155	20.05	9.55	17	6	.06	.6	.9	KAO	.7X	166	5
2002	JAN	22	2157	32.89	19	12.98	155	36.54	1.72	11	4	.10	.5	.9	LSW	2.4X	91	12
2002	JAN	22	2303	1.41	19	25.05	155	29.08	9.35	33	8	.07	.3	.8	KAO	1.5X	39	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JAN	23	0021	6.39	19	27.42	155	27.31	7.74	39	9	.10	.3	1.0	KAO	1.8X	61	8
2002	JAN	23	0100	44.79	19	19.22	155	1.12	41.85	43	8	.11	.9	.9	DEP	2.0X	200	11
2002	JAN	23	0311	37.02	19	19.40	155	10.90	6.75	33	6	.10	.4	.6	SF3	1.3X	100	5
2002	JAN	23	0911	48.65	19	20.23	155	6.86	6.04	23	1	.11	.6	1.2	SF4	1.3X	168	6
2002	JAN	23	0956	7.65	19	20.13	155	13.59	5.22	34	7	.12	.4	.9	SF2	1.2X	69	5
2002	JAN	23	1354	55.77	19	28.96	155	29.48	12.54	18	5	.14	.5	1.3	KAO	1.0X	59	6
2002	JAN	23	1443	8.14	19	25.21	155	30.34	46.48	19	4	.11	1.2	1.5	DML	1.7X	81	5
2002	JAN	23	2319	35.22	19	24.54	155	16.98	11.23	15	3	.17	1.9	.8	INTL	1.7X	119	1
2002	JAN	24	0017	15.18	19	31.38	155	4.18	40.99	27	5	.12	1.2	1.0	DEP	1.7X	194	13
2002	JAN	24	0551	59.86	19	30.44	155	51.27	9.81	19	4	.24	1.7	1.4	KON	1.0X	234	9
2002	JAN	24	0656	0.27	19	24.89	155	2.69	6.12	17	3	.13	1.0	.7	SF5	1.5X	157	3
2002	JAN	24	0903	15.26	19	19.48	155	6.95	6.87	19	4	.09	.5	1.0	SF4	1.2X	151	4
2002	JAN	24	1138	22.15	19	20.41	155	5.91	5.82	27	7	.11	.5	1.1	SF4	1.8X	158	6
2002	JAN	24	1617	56.96	19	20.69	155	30.29	10.56	34	8	.08	.3	.8	KAO	1.9X	55	6
2002	JAN	24	1637	27.57	19	25.56	155	30.96	10.21	14	2	.13	.8	1.5	KAO	1.1X	96	8
2002	JAN	24	1722	48.91	19	26.28	155	30.28	12.65	24	3	.10	.5	1.1	KAO	1.3X	89	5
2002	JAN	24	1843	29.77	19	5.85	155	20.68	12.91	15	3	.17	1.7	.8	LOI	1.5X	219	14
2002	JAN	24	2224	56.66	19	20.09	155	6.69	7.36	18	3	.11	.5	.7	SF4	.9X	174	6
2002	JAN	25	0003	36.67	19	19.86	155	9.89	3.72	32	8	.13	.5	1.6	SSF	1.5X	93	4
2002	JAN	25	0231	26.12	19	19.76	155	8.84	7.09	23	4	.08	.5	.8	SF4	1.4X	116	5
2002	JAN	25	1018	31.55	20	12.40	155	38.35	35.45	24	7	.10	1.1	1.3	KOH	1.9X	251	17
2002	JAN	25	1159	57.58	19	24.06	155	29.92	10.68	26	3	.08	.3	.8	KAO	1.4X	44	5
2002	JAN	25	1254	27.53	19	25.55	155	30.95	11.20	26	5	.10	.4	1.1	KAO	1.3X	47	8
2002	JAN	25	1424	15.16	19	20.41	155	4.45	4.09	27	6	.14	.6	2.3	SSF	1.1X	179	7
2002	JAN	25	1527	20.24	19	19.08	155	12.33	5.23	20	4	.09	.4	1.4	SF2	1.0X	123	4
2002	JAN	25	1657	33.24	19	14.02	155	27.70	6.40	20	3	.14	.5	1.0	LSW	1.8X	112	5
2002	JAN	25	2005	27.83	19	16.58	155	28.47	8.20	14		.12	.6	.9	LSW	1.3X	65	4
2002	JAN	26	0031	57.89	19	18.51	155	13.45	8.04	41	7	.13	.4	.5	SF2	2.2X	79	3
2002	JAN	26	1016	48.39	19	18.67	155	52.91	10.73	15	3	.10	1.5	1.0	KON	1.3X	280	23
2002	JAN	26	1336	36.94	19	20.27	155	4.33	5.65	33	6	.11	.6	1.1	SF5	1.5X	180	8
2002	JAN	27	0404	59.68	19	18.49	155	13.16	5.96	37	6	.11	.3	.9	SF2	2.2X	90	3
2002	JAN	27	0613	39.33	19	19.76	155	8.53	5.32	29	6	.10	.4	.9	SF4	1.1X	108	5
2002	JAN	27	0721	38.94	19	14.36	155	13.49	6.30	30	4	.13	.7	1.4	SF2	1.5X	201	5
2002	JAN	27	1103	47.14	19	36.03	156	24.12	6.48	28	6	.14	1.4	1.6	DIS	2.0X	277	60
2002	JAN	27	1132	50.23	19	9.27	155	27.26	34.82	23	3	.08	1.2	1.9	DLS	1.3X	227	1
2002	JAN	27	1206	47.37	19	16.90	155	13.93	7.04	21	3	.08	.6	.9	SF2	1.0X	207	1
2002	JAN	27	1450	23.62	19	19.90	155	9.06	7.02	30	5	.07	.4	.7	SF4	1.6X	96	4
2002	JAN	27	1900	55.50	19	21.72	155	10.78	3.00	15	3	.08	.6	.4	SER	1.4X	121	2
2002	JAN	27	2356	24.94	19	22.62	155	26.51	9.70	38	7	.10	.3	.6	KAO	1.7X	55	2
2002	JAN	27	2356	41.85	19	23.00	155	26.30	8.96	23	6	.12	.4	.9	KAO	1.4X	55	2
2002	JAN	28	0142	40.52	19	32.51	155	45.20	31.22	20	5	.10	.9	1.2	KON	1.3X	132	4
2002	JAN	29	0652	38.48	19	23.01	155	27.57	9.78	37	7	.12	.3	.7	KAO	1.7X	45	1
2002	JAN	29	0721	17.25	19	12.04	155	26.21	3.56	13	1	.11	.7	2.6	LSW	1.5X	140	6
2002	JAN	29	1340	33.41	19	12.26	155	26.76	1.11	14	2	.10	.4	.7	LSW	1.3X	150	5
2002	JAN	29	1739	56.89	19	20.43	155	52.36	11.75	23	4	.14	1.0	.6	KON	1.4X	240	22

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JAN	29	1815	0.27	19	41.55	156	26.50	5.95	30	8	.12	1.5	2.5	DIS	2.1X	229	63
2002	JAN	29	2249	44.18	19	17.42	155	30.39	11.60	18	4	.11	.4	1.3	LSW	1.1X	68	4
2002	JAN	29	2353	3.27	19	9.89	155	36.56	0.27	25	3	.13	.4	.4	LSW	1.6X	105	15
2002	JAN	30	0458	17.76	19	2.38	155	14.86	0.78	13	4	.13	8.9	3.8	LOI	1.2X	325	27
2002	JAN	30	0547	31.50	19	20.06	155	7.01	7.38	32	5	.10	.5	.7	SF4	1.7X	136	5
2002	JAN	30	0821	6.89	19	25.51	155	15.63	14.40	17	4	.06	.6	.8	DEP	1.1X	145	3
2002	JAN	30	0934	48.05	19	53.05	155	20.66	11.15	22	2	.10	.8	.4	KEA	1.8X	124	1
2002	JAN	30	0951	2.25	19	19.69	155	12.19	6.82	42	9	.11	.4	.6	SF3	1.8X	85	5
2002	JAN	30	1227	15.92	19	19.08	155	11.49	6.37	33	6	.12	.5	.9	SF3	1.7X	170	5
2002	JAN	30	1311	21.93	19	23.63	155	26.20	3.29	16	3	.08	.4	.8	KAO	1.1X	68	3
2002	JAN	30	1709	38.76	18	50.47	155	11.02	18.05	26	5	.14	1.6	14.0	LOI -	2.1X	270	46
2002	JAN	30	1710	56.27	19	17.21	155	29.05	8.56	20	4	.13	.4	.8	LSW	1.2X	82	4
2002	JAN	30	1907	24.89	19	18.48	155	13.01	5.50	31	5	.11	.4	1.1	SF2	1.4X	94	3
2002	JAN	30	2011	51.89	19	20.17	155	12.60	0.02	25	6	.13	.4	.3	SSF #	1.0X	139	5
2002	JAN	30	2216	49.60	19	19.70	155	8.21	6.46	38	7	.10	.4	.6	SF4	1.8X	115	4
2002	JAN	30	2235	10.96	19	17.01	155	13.32	5.61	31	2	.11	.5	.8	SF2	1.5X	156	0
2002	JAN	30	2304	53.66	19	12.34	155	30.71	0.73	33	8	.13	.3	.3	LSW	1.6X	78	7
2002	JAN	30	2339	8.52	19	21.29	155	5.55	6.16	33	7	.12	.5	.6	SF4	1.6X	152	5
2002	JAN	31	0249	30.06	19	21.37	155	5.84	5.68	33	4	.13	.5	1.2	SF4	1.3X	147	5
2002	JAN	31	0408	19.30	19	55.38	155	22.77	8.26	14	5	.07	1.1	.8	KEA	1.3U	225	37
2002	JAN	31	0627	19.35	19	19.88	155	51.63	9.16	22	4	.19	.9	1.1	KON	1.5X	210	20
2002	JAN	31	0714	11.66	19	29.35	155	10.40	12.02	12	4	.12	2.1	1.6	GLN	2.3X	295	13
2002	JAN	31	1207	39.04	19	29.30	155	27.02	6.32	25	6	.09	.3	1.2	KAO	1.4X	67	5
2002	JAN	31	1313	14.02	19	12.08	155	26.45	2.39	27	5	.12	.4	.7	LSW	1.4X	140	5
2002	JAN	31	1315	27.05	19	25.35	155	28.36	7.20	32	5	.10	.3	1.0	KAO	1.5X	42	5
2002	JAN	31	1503	16.63	19	20.12	155	8.21	6.18	25	4	.11	.6	1.2	SF4	1.2X	179	6
2002	JAN	31	2233	46.31	19	21.81	155	9.94	2.90	16	3	.12	.6	.4	SER	1.5X	85	1
2002	JAN	31	2311	32.45	19	11.03	155	41.08	0.01	17	3	.15	.5	.4	LSW #	1.4X	95	9
2002	FEB	1	1554	20.04	19	48.72	155	36.90	15.08	33	4	.11	1.0	1.0	KEA	2.0X	193	17
2002	FEB	1	1800	26.13	19	19.17	155	8.57	6.24	27	5	.08	.4	.7	SF4	1.2X	99	4
2002	FEB	1	2103	10.63	19	57.15	155	27.72	36.85	19	4	.10	1.7	1.3	KEA	1.5X	259	19
2002	FEB	1	2132	0.58	19	18.75	155	13.35	8.39	45	9	.12	.4	.6	SF2	2.0X	79	3
2002	FEB	1	2317	11.42	19	13.83	155	14.43	43.57	18	6	.07	1.8	1.0	DEP	1.5X	279	11
2002	FEB	2	0012	2.33	19	19.61	155	7.56	4.82	26	5	.15	.7	2.4	SSF	1.1X	134	4
2002	FEB	2	0057	29.00	19	20.10	155	7.57	7.31	22	1	.07	.5	.8	SF4	1.2X	129	5
2002	FEB	2	0255	47.77	19	25.68	155	28.13	10.68	19	2	.12	.6	1.2	KAO	1.2X	82	6
2002	FEB	2	0603	16.37	19	19.59	155	6.88	7.12	21	2	.10	.6	.8	SF4	1.3X	151	5
2002	FEB	2	0839	47.99	19	20.22	155	13.18	8.28	13	3	.06	.6	1.4	SF2	1.4X	66	4
2002	FEB	2	1112	50.15	19	30.16	155	54.62	1.96	13	2	.11	3.3	2.9	KON	1.4X	277	15
2002	FEB	2	1601	28.64	19	19.40	155	8.90	7.64	19	4	.04	.4	1.0	SF4	1.2X	97	4
2002	FEB	2	1603	59.24	19	23.82	155	2.47	6.53	14	1	.07	.9	.9	SF5	1.4X	181	3
2002	FEB	2	2102	57.77	19	15.26	155	33.09	9.03	16	2	.11	.7	1.3	LSW	1.6X	105	5
2002	FEB	3	0211	48.14	19	20.36	155	11.74	7.92	19	5	.05	.5	1.0	SF3	2.4X	78	5
2002	FEB	3	0447	40.48	19	28.84	155	26.98	7.11	22	5	.13	.4	1.4	KAO	1.1X	75	6
2002	FEB	3	0629	40.40	19	13.70	155	28.97	10.64	23	4	.12	.4	1.0	LSW	1.1X	89	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	FEB	3	0904	0.26	19	18.85	155	13.74	8.52	15	1	.05	.7	1.2	SF2	1.1X	123	3
2002	FEB	3	1412	35.47	19	25.03	155	39.18	2.90	17	1	.10	.7	.4	MLO	1.8X	195	3
2002	FEB	3	1458	16.82	19	22.92	155	24.07	30.55	26	7	.10	.7	1.1	DML	1.4X	61	5
2002	FEB	3	1543	19.22	19	21.67	155	26.80	12.30	4510		.09	.3	.5	KAO	1.7X	45	2
2002	FEB	3	1544	4.88	19	21.91	155	26.72	11.20	31	4	.09	.4	.6	KAO	1.5X	50	2
2002	FEB	3	1547	5.21	19	21.86	155	26.82	12.10	23	5	.11	.4	.9	KAO	.9X	64	2
2002	FEB	3	1547	38.33	19	21.88	155	26.83	11.72	36	9	.11	.4	.7	KAO	1.1X	46	2
2002	FEB	3	1610	1.89	19	22.00	155	26.59	11.99	35	6	.10	.4	.6	KAO	1.3X	51	2
2002	FEB	3	1658	56.20	17	32.34	155	28.14	2.46	16		.10	11.1	10.9	DIS -	2.4X	345	161
2002	FEB	3	2308	6.54	19	9.51	155	22.00	52.81	16	1	.13	2.3	2.2	LOIT		299	10
2002	FEB	3	2324	25.76	19	25.70	155	28.18	10.89	26	6	.10	.4	.8	KAO	1.4X	57	6
2002	FEB	4	0020	53.13	19	26.23	155	19.14	8.37	31	7	.12	.4	.8	KAO	1.9X	140	3
2002	FEB	4	0405	52.25	19	13.38	155	25.76	7.30	19	3	.12	.8	1.5	LSW	1.2X	148	4
2002	FEB	4	0840	48.87	19	19.68	155	18.47	3.85	23	5	.09	.3	.6	SWR	1.2X	67	2
2002	FEB	4	1011	11.35	19	51.85	155	40.94	29.09	40	9	.11	.6	1.5	KEA	1.9X	104	25
2002	FEB	4	1446	14.37	19	16.73	155	27.23	0.36	16	4	.14	.3	.4	LSW	1.0U	107	6
2002	FEB	4	2256	10.20	19	11.98	155	32.22	4.76	25	6	.13	.5	2.9	LSW	1.6X	139	7
2002	FEB	5	0127	58.25	19	20.12	155	10.56	6.39	28	3	.13	.5	.9	SF3	1.1X	84	4
2002	FEB	5	0154	18.62	19	58.36	156	45.97	6.55	27	7	.14	2.5	2.8	DIS	2.5X	252	93
2002	FEB	5	0623	1.89	19	25.35	155	29.25	9.46	40	9	.09	.3	.6	KAOF	2.4X	39	6
2002	FEB	5	0652	14.36	19	19.90	155	7.90	5.44	23	2	.12	.5	1.3	SF4	1.1X	124	5
2002	FEB	5	0819	25.38	19	22.27	155	23.67	12.39	21	3	.09	.5	1.1	KAO	1.2X	59	4
2002	FEB	5	1158	56.19	19	20.81	155	27.06	9.72	23	4	.11	.6	.9	KAO	1.2X	66	3
2002	FEB	5	1512	53.66	19	46.24	155	25.24	14.00	15	2	.10	.8	.3	KEA	1.3X	105	4
2002	FEB	5	1628	30.96	19	17.52	155	29.33	6.42	31	6	.20	.4	1.4	LSW	1.2X	49	5
2002	FEB	5	1708	5.03	18	56.54	155	26.21	25.23	26	6	.07	.9	1.6	DLS	1.7X	239	24
2002	FEB	5	1711	14.44	19	10.23	155	43.11	8.07	22	2	.14	.8	2.1	KON	1.5X	103	5
2002	FEB	5	2008	11.91	19	6.46	155	6.73	52.08	26	4	.09	1.5	1.7	LOI	1.7X	235	20
2002	FEB	6	0107	15.13	20	21.34	155	59.77	2.76	17	3	.08	2.3	1.0	KOH	1.7X	185	49
2002	FEB	6	0138	34.28	19	20.00	155	8.33	9.03	40	8	.08	.4	.4	SF4	2.7X	107	5
2002	FEB	6	0517	7.88	19	56.38	155	32.00	33.43	21	5	.09	1.4	1.5	KEA	1.4X	286	19
2002	FEB	6	1405	3.54	19	22.99	155	25.25	9.88	39	8	.11	.3	.6	KAO	1.7X	56	4
2002	FEB	6	1526	25.61	19	9.34	155	6.36	45.98	39	8	.12	.9	1.2	LOI	1.8X	214	15
2002	FEB	6	1532	18.65	19	26.35	155	30.65	10.58	15	2	.08	.5	1.4	KAO	1.1X	65	9
2002	FEB	7	1152	29.46	19	16.28	155	30.18	10.03	40	7	.13	.4	.7	LSW	2.0X	54	2
2002	FEB	7	1204	21.33	19	23.60	155	15.38	2.91	16	4	.09	.3	.4	SEC	1.4X	91	2
2002	FEB	7	1229	46.44	19	23.68	155	16.32	2.67	24	6	.13	.6	.2	SEC	1.6X	119	1
2002	FEB	7	1424	7.55	19	30.59	155	27.12	4.84	15	3	.09	.4	1.2	MLO	1.1X	120	3
2002	FEB	7	1749	11.10	19	19.23	156	0.61	42.82	3510		.09	.8	1.3	KON	1.9X	248	32
2002	FEB	7	1912	58.92	19	21.88	155	11.04	3.16	18	3	.08	.5	.4	SER	1.5X	120	2
2002	FEB	7	2207	48.12	19	29.44	155	26.88	6.90	15	4	.09	.4	1.2	KAO	1.7X	99	5
2002	FEB	7	2225	9.44	19	10.75	155	40.05	8.03	19	2	.12	.6	2.0	LSW	1.4X	88	11
2002	FEB	7	2340	34.37	19	20.41	155	8.67	6.59	38	6	.10	.4	.6	SF4	1.7X	101	4
2002	FEB	8	0553	18.73	19	25.20	155	19.09	7.51	18	4	.09	.6	1.1	KAO	1.3X	122	3
2002	FEB	8	0758	22.19	19	27.29	155	29.24	10.98	26	4	.08	.4	.8	KAO	1.5X	48	8
2002	FEB	8	1159	37.72	19	22.50	155	28.73	9.73	41	7	.08	.3	.6	KAO	1.7X	39	2
2002	FEB	8	1303	47.70	19	19.61	155	8.63	6.81	20	3	.08	.5	1.2	SF4	1.1X	122	4
2002	FEB	9	0622	17.57	19	21.88	155	13.64	12.72	34	8	.08	.4	.5	SF2	1.9X	56	2
2002	FEB	9	1514	9.52	19	16.62	155	37.97	7.77	15	4	.10	.4	2.5	LSW	1.5X	106	10
2002	FEB	9	1628	52.13	19	33.26	155	55.31	25.94	5113		.10	.5	1.0	KONF	2.8X	160	15
2002	FEB	9	1712	8.88	19	14.80	155	31.90	14.02	18	3	.13	.6	.7	DLS	1.6X	167	3
2002	FEB	9	1820	57.59	19	27.98	155	0.45	45.76	27	6	.11	1.8	.9	DEP	1.8X	222	6
2002	FEB	10	0048	50.26	19	7.51	155	33.56	5.46	14		.16	.9	2.1	LSW	1.6X	147	11
2002	FEB	10	1617	40.03	19	19.81	155	10.89	7.87	39	8	.09	.4	.6	SF3	2.2X	91	5
2002	FEB	10	1729	40.42	19	11.46	155	40.43	0.59	18	5	.20	.6	.4	LSW	1.2X	98	10
2002	FEB	10	2115	6.77	19	18.31	155	15.67	5.35	27	5	.11	.4	1.3	SF1	1.3X	109	5
2002	FEB	10	2320	23.01	20	1.00	155	28.76	6.90	14	3	.10	1.8	1.1	KEA	1.6X	321	26
2002	FEB	11	0118	46.48	19	13.09	155	34.44	7.32	14	1	.11	.5	1.3	LSW	1.6X	132	8
2002	FEB	11	0229	35.06	19	0.72	155	18.55	32.03	24	4	.10	1.2	2.0	LOI	1.3X	244	23
2002	FEB	11	0307	58.42	19	31.12	155	42.50	2.50	15	3	.12	.6	1.5	MLO	.8X	103	6
2002	FEB	11	0331	37.40	18	50.71	155	12.82	10.07	22	3	.18	2.0	1.2	LOI	1.6X	283	44
2002	FEB	11	0717	20.54	19	46.23	155	53.13	26.60	18	5	.12	1.3	1.4	HUA	.9X	292	10
2002	FEB	11	0828	51.54	19	19.90	155	12.09	4.23	22	3	.12	.5	1.8	SSF	1.3X	154	5
2002	FEB	11	0927	36.40	19	19.16	155	9.06	2.43	27	6	.13	.5	.6	SSF	1.1X	185	6
2002	FEB	11	0929	34.64	19	19.34	155	8.59	6.20	28	5	.10	.5	.9	SF4	1.4X	123	4
2002	FEB	11	0937	13.14	19	20.17	155	13.39	5.96	35	8	.11	.4	.7	SF2	1.6X	112	5
2002	FEB	11	1144	16.13	19	18.56	155	12.81	4.70	19	3	.11	1.5	2.7	SSF	1.0X	206	3
2002	FEB	11	1203	23.29	19	18.26	155	12.96	8.81	27	5	.11	.5	.6	SF2	1.6X	139	2
2002	FEB	11	1239	58.61	18	43.61	155	12.68	4.31	21	4	.08	1.3	.6	LOI	2.3X	301	55
2002	FEB	11	1317	9.28	19	19.64	155	10.52	8.96	21	3	.09	.7	.9	SF3	1.6X	175	5
2002	FEB	11	1526	5.51	19	17.81	155	11.23	7.75	19	3	.10	1.3	1.0	SF3	1.0X	270	4
2002	FEB	11	1537	37.62	19	27.68	155	52.59	6.60	30	6	.13	.8	.6	KONF	1.9X	208	13
2002	FEB	11	1811	4.02	19	20.23	155	7.82	7.44	36	9	.09	.4	.5	SF4	1.6X	123	5
2002	FEB	11	1816	22.66	18	47.75	155	9.38	8.13	20	4	.20	1.8	1.4	LOI	1.7X	274	52
2002	FEB	11	1956	47.08	19	21.80	155	13.75	12.66	21	4	.08	.8	.5	SF2	1.2X	146	2
2002	FEB	11	2241	3.69	19	12.45	155	26.14	43.96	36	9	.08	.7	1.0	DLS	1.7X	145	6
2002	FEB	12	0022	32.24	19	23.83	155	15.78	2.89	24	6	.09	.3	.2	SEC	1.9X	105	1
2002	FEB	12	0647	34.39	19	21.52	155	13.57	13.51	43	9	.11	.5	.3	DEPF	2.8X	147	2
2002	FEB	12	0952	55.53	19	21.69	155	13.62	13.70	4611		.11	.5	.2	DEPF	2.6X	145	2
2002	FEB	12	1006	41.52	19	21.31	155	13.58	12.76	17	4	.09	1.2	.6	SF2	.8X	175	3
2002	FEB	12	1507	11.89	19	28.13	155	24.49	6.48	16	5	.11	.5	1.1	KAO	1.1X	78	4
2002	FEB	12	1511	37.12	20	1.22	156	0.73	1.79	14	3	.17	1.6	1.1	KOH	1.5X	179	27
2002	FEB	12	1643	40.05	19	17.87	155	12.88	8.44	41	8	.12	.5	.4	SF2	2.4X	153	2
2002	FEB	12	1645	35.46	19	19.30	155	13.02	6.33	39	6	.13	.4	.7	SF2	1.7X	123	4
2002	FEB	12	1701	1.01	19	18.95	155	12.98	5.16	31	5	.11	.4	1.2	SF2	1.3X	129	4
2002	FEB	12	1701	18.02	19	19.56	155	13.39	8.19	43	9	.13	.4	.5	SF2	2.6X	118	6
2002	FEB	12	2041	38.00	19	21.17	155	13.69	13.26	30	7	.10	.9	.4	DEP	1.6X	188	3
2002	FEB	12	2139	30.63	19	21.70	155	29.70	10.94	18	5	.13	.5	.9	KAO	1.2X	129	4
2002	FEB	12	2244	32.12	19	7.64	155	24.65	32.23	35	8	.08	.7	1.3	LOI	1.9X	186	7
2002	FEB	13	0053	35.45	19	16.00	155	46.51	6.27	18	4	.18	1.0	3.6	KON	1.4X	187	13

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	FEB	13	0152	48.21	19	23.51	155	29.54	10.36	38	8	.11	.3	.6	KAO	2.2X	54	4
2002	FEB	13	0213	55.39	19	17.07	155	29.36	12.14	15	3	.13	.6	1.8	LSW	.9X	125	10
2002	FEB	13	0952	14.92	19	24.95	155	28.44	9.50	21	4	.11	.4	.9	KAO	1.2X	65	5
2002	FEB	13	1404	18.75	19	21.85	155	29.57	9.15	29	4	.09	.4	.7	KAO	1.6X	62	4
2002	FEB	13	2133	6.49	19	14.48	155	27.09	3.23	16	5	.11	1.2	1.9	LSW	.9X	231	12
2002	FEB	13	2205	33.64	19	18.81	155	13.26	7.57	3310		.12	.6	.6	SF2	1.5X	196	7
2002	FEB	13	2222	36.96	19	28.31	155	36.64	9.36	14	3	.12	.9	1.1	MLO	1.8X	185	2
2002	FEB	14	0136	41.74	19	27.12	155	29.96	8.81	24	7	.09	.4	1.2	KAO	1.3X	60	7
2002	FEB	14	1210	11.37	19	26.43	154	57.62	1.31	19	4	.13	.6	.6	SLE	1.8X	139	3
2002	FEB	14	1210	43.78	19	23.02	154	57.57	1.77	18	1	.15	1.1	1.5	SLE	2.0X	209	4
2002	FEB	14	1745	24.99	19	18.37	155	12.67	1.58	24	6	.11	.6	.7	SSF	1.2X	238	8
2002	FEB	14	1814	54.25	19	20.16	155	8.37	7.70	27	8	.10	.8	.7	SF4	1.5X	210	4
2002	FEB	14	1933	4.65	19	16.00	155	25.23	4.68	12	2	.13	1.5	9.6	LSW #	.8X	269	8
2002	FEB	14	2055	12.64	19	24.90	155	17.03	2.50	13	5	.11	.7	.2	SNC	1.1X	136	0
2002	FEB	15	0308	1.17	20	4.45	155	38.93	25.52	11	4	.12	1.5	1.9	KOH	1.6X	194	15
2002	FEB	15	1006	13.10	19	25.47	155	19.16	5.05	20	6	.11	.5	.9	KAO	1.7X	133	3
2002	FEB	15	1041	18.13	19	17.36	155	13.73	6.98	20	2	.08	.9	1.3	SF2	1.3X	234	8
2002	FEB	15	1450	51.07	19	18.85	155	11.83	4.86	20	4	.12	1.1	4.7	SSF	1.2X	280	7
2002	FEB	15	1603	47.08	19	18.40	155	16.00	31.42	5211		.10	.6	.7	DEP	3.0X	111	4
2002	FEB	15	1800	15.56	19	21.86	155	11.25	3.14	30	7	.11	.7	.5	SER	1.8X	174	2
2002	FEB	15	1844	47.21	19	17.19	155	14.77	0.04	17	3	.11	2.5	.9	SSF #	1.2X	265	10
2002	FEB	15	2221	27.59	19	23.39	155	2.58	6.61	26	4	.13	.9	.6	SF5	1.6X	196	3
2002	FEB	15	2248	45.00	19	31.90	155	47.19	27.31	3811		.09	.5	.9	KON	2.0X	167	3
2002	FEB	16	0144	49.58	19	5.15	154	43.10	15.91	19	4	.12	3.511	4	DIS -	1.7X	290	43
2002	FEB	16	0157	11.07	19	17.69	155	12.81	6.01	21	4	.08	.7	1.7	SF2	1.0X	214	9
2002	FEB	16	0231	25.12	19	20.78	155	13.36	8.63	36	8	.09	.5	.4	SF2	2.3X	169	3
2002	FEB	16	0555	57.26	19	20.46	155	10.76	7.36	23	2	.07	1.2	.7	SF3	1.6X	202	3
2002	FEB	16	0714	5.65	19	21.11	155	10.26	1.29	20	6	.10	.6	.4	SER	1.8X	197	2
2002	FEB	16	0831	46.48	19	21.00	155	13.43	12.84	22	5	.07	.9	.6	SF2	1.3X	185	3
2002	FEB	16	1349	49.83	19	29.00	155	26.63	7.72	34	6	.12	.4	.9	KAO	2.2X	49	6
2002	FEB	17	1859	41.56	19	26.55	155	28.37	9.47	18	4	.11	.5	1.6	KAO	1.5X	80	8
2002	FEB	18	0456	59.36	19	20.62	155	11.38	8.83	19	1	.07	1.3	.8	SF3	1.5X	203	4
2002	FEB	18	0648	38.74	19	27.11	155	27.70	9.33	22	5	.10	.4	1.1	KAO	1.5X	68	9
2002	FEB	18	1456	31.85	19	16.36	155	14.40	6.05	24	4	.12	.9	1.5	SF2	1.4X	229	2
2002	FEB	18	1526	18.31	19	25.94	155	13.49	20.86	15	6	.07	1.4	.9	DEP	1.3X	278	6
2002	FEB	18	1741	10.22	19	18.56	155	7.93	4.17	28	6	.12	.9	2.0	SSF	1.4X	128	2
2002	FEB	18	1746	26.44	19	19.32	155	29.93	9.07	13	2	.12	.9	1.3	KAO	.7X	201	7
2002	FEB	19	0050	28.83	21	4.22	155	17.33	31.11	18		.081	1.3	4.6	DIS -	2.4X	320	116
2002	FEB	19	0157	59.75	19	12.25	155	32.37	0.13	23	4	.10	.3	.3	LSW	1.3X	87	7
2002	FEB	19	0500	0.45	19	21.47	155	30.40	7.06	18	1	.17	.7	1.6	KAO	1.3X	131	5
2002	FEB	19	1002	38.06	19	18.64	155	11.12	4.36	24	4	.11	.7	3.8	SSF	1.3X	216	7
2002	FEB	19	1023	1.96	19	17.82	155	12.91	4.54	29	6	.12	.7	2.2	SSF	1.4X	213	9
2002	FEB	19	1122	19.19	19	24.45	155	17.80	12.51	20	5	.16	.8	.8	INTL	1.5X	57	2
2002	FEB	19	1258	7.11	19	19.05	155	10.00	7.41	32	5	.09	.5	.6	SF3	1.7X	124	5
2002	FEB	19	1855	44.02	19	18.27	155	7.84	2.71	27	6	.11	.6	.9	SSF	1.2X	205	8

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	FEB	19	2134	1.06	19	19.03	155	5.36	1.43	21	5	.11	.7	.5	SSF	1.3X	229	9
2002	FEB	20	0713	15.32	19	25.19	154	54.12	27.97	21	3	.12	2.9	1.0	LER	1.4X	337	8
2002	FEB	20	0740	26.95	19	7.56	155	24.17	36.37	25	6	.12	1.1	1.2	LOI	1.6X	241	7
2002	FEB	20	1558	21.22	19	23.30	155	14.81	3.08	17	5	.08	.3	.4	SEC	1.5X	140	3
2002	FEB	20	2057	40.15	19	58.92	155	24.92	8.29	25	7	.12	.9	.6	KEA	1.7X	288	23
2002	FEB	21	0239	28.40	19	21.39	155	11.02	2.62	22	7	.09	.8	.4	SER	1.7X	193	2
2002	FEB	21	0455	46.21	19	17.00	155	29.53	8.90	24	4	.14	.5	1.0	LSW	1.3X	101	4
2002	FEB	21	0854	30.10	19	29.21	155	27.13	5.26	23	6	.10	.3	1.8	KAO	1.5X	90	5
2002	FEB	21	1147	5.76	19	11.96	155	30.09	12.22	20	3	.12	.6	1.4	LSW	1.5X	121	6
2002	FEB	21	1225	52.86	19	28.44	155	31.60	41.10	22	5	.11	.9	1.5	DML	1.6X	55	6
2002	FEB	21	1550	50.91	19	12.89	155	32.36	0.01	24	6	.11	.4	.3	LSW #	1.7X	80	10
2002	FEB	21	1625	22.90	19	16.87	155	12.17	1.16	18	4	.20	1.8	1.0	SSF #	1.0X	248	10
2002	FEB	21	1739	7.66	19	20.85	155	9.99	3.29	14	3	.10	1.2	.8	SER	1.4X	222	2
2002	FEB	21	1849	22.14	19	22.85	155	27.57	10.88	24	7	.10	.5	1.0	KAO	1.2X	75	1
2002	FEB	21	2323	53.70	19	28.48	155	26.38	8.36	20	5	.09	.4	1.2	KAO	1.1X	68	6
2002	FEB	22	0247	48.89	19	26.54	155	18.52	8.59	22	6	.11	.6	.9	INT	1.5X	160	3
2002	FEB	22	0831	41.27	19	8.93	155	36.37	1.34	17	3	.13	.5	.7	LSW	1.0X	114	15
2002	FEB	22	1007	37.17	19	18.92	155	7.74	2.87	23	6	.16	2.1	2.0	SSF	1.0X	275	7
2002	FEB	22	1119	6.60	19	22.75	155	29.73	8.95	32	7	.09	.3	.8	KAO	1.4X	58	4
2002	FEB	22	1141	2.46	19	11.64	155	31.48	4.74	25	5	.14	.6	2.2	LSW	1.7X	200	7
2002	FEB	22	2024	3.10	19	19.20	155	11.09	4.80	21	4	.12	1.0	2.9	SSF	1.1X	237	6
2002	FEB	23	0213	32.23	19	25.66	155	19.62	6.90	18	6	.08	.5	1.1	KAO	1.1X	137	4
2002	FEB	23	0406	7.73	19	17.92	155	13.05	31.38	4211		.10	.7	.8	DEP	1.7X	169	9
2002	FEB	23	0436	51.88	19	4.44	155	21.25	34.41	4511		.11	.7	1.1	LOI	2.3X	202	15
2002	FEB	23	0955	30.48	19	18.96	155	7.55	4.24	19	2	.10	1.4	3.5	SSF	.9X	244	7
2002	FEB	23	1213	29.64	19	27.44	155	23.80	9.12	21	4	.11	.5	1.0	KAO	1.0X	98	4
2002	FEB	23	1413	32.83	19	15.17	155	26.76	9.78	24	2	.09	.4	.7	LSW	1.6X	131	6
2002	FEB	23	2005	56.47	19	15.61	155	26.42	9.32	27	5	.11	.4	.9	LSW	1.4X	133	10
2002	FEB	23	2225	49.30	19	26.35	155	24.66	10.63	43	9	.12	.4	.5	KAOF	2.8X	35	7
2002	FEB	24	0057	7.34	19	4.57	155	28.42	42.05	15	1	.12	2.2	1.9	DLS	1.5X	220	9
2002	FEB	24	0058	45.00	19	7.69	155	31.83	42.59	26		.12	1.0	3.0	DLST	2.5X	158	8
2002	FEB	24	0347	53.91	19	20.72	155	11.61	8.14	39	7	.12	.4	.4	SF3	2.1X	162	4
2002	FEB	24	0354	45.52	19	17.61	155	12.83	9.84	39	9	.11	.4	.6	SF2	2.0X	171	9
2002	FEB	24	0507	45.40	19	24.66	156	14.17	11.99	21	6	.20	9.211	.5	KON	1.3X	309	51
2002	FEB	24	0633	15.32	19	3.50	155	28.34	45.04	19	4	.13	1.7	1.5	DLS	1.9X	220	11
2002	FEB	24	0644	24.63	19	35.95	155	19.07	11.00	21	7	.12	.7	1.1	KEA	1.2X	146	14
2002	FEB	24	0645	38.15	19	7.86	155	29.13	37.99	18	4	.11	1.7	1.3	DLS	1.5X	193	4
2002	FEB	24	0825	12.35	19	30.54	155	46.39	10.76	20	5	.14	.9	.8	KON	1.1X	261	1
2002	FEB	24	1414	57.25	19	31.56	155	16.71	22.21	24	6	.09	.6	1.1	DEP	1.8X	110	11
2002	FEB	24	1642	54.05	19	18.82	155	6.26	7.37	3810		.09	.6	.7	SF4	2.1X	222	9
2002	FEB	24	1858	16.56	19	19.22	155	10.66	5.51	20	4	.14	.9	1.9	SF3	1.3X	241	5
2002	FEB	24	2035	17.76	19	46.18	155	33.24	26.10	27	8	.10	.7	1.3	KEA	1.8X	130	10
2002	FEB	25	0551	41.37	19	36.18	155	13.34	10.80	24	5	.10	.6	1.2	KEA	1.5X	150	21
2002	FEB	25	0738	47.48	19	19.34	155	8.48	5.87	30	6	.11	.6	1.0	SF4	1.5X	198	6
2002	FEB	25	0834	4.34	19	28.77	155	32.17	0.46	10	2	.13	.6	.6	MLO	2.0X	89	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	FEB	25	1026	32.68	19	23.43	155	55.13	6.75	13	2	.12	1.3	1.3	KON	1.6X	262	21
2002	FEB	25	1347	16.37	19	24.91	156	1.46	37.85	30	6	.08	1.1	1.5	KON	2.3X	256	29
2002	FEB	25	1549	25.68	19	16.62	155	26.58	6.98	19	3	.15	.9	1.2	LSW	1.2X	212	9
2002	FEB	25	2143	22.57	19	20.97	155	11.28	7.93	29	6	.11	.9	.7	SF3	1.9X	171	3
2002	FEB	26	0124	34.38	19	19.08	155	13.30	8.58	32	4	.11	.5	.4	SF2	2.0X	168	7
2002	FEB	26	1837	3.82	19	13.18	155	27.10	0.05	23	6	.18	.5	.4	LSW #	1.4X	138	7
2002	FEB	26	1855	36.58	18	52.81	155	12.46	43.91	19	6	.11	2.0	3.0	LOI	1.9X	330	41
2002	FEB	27	0004	59.05	19	18.88	155	13.11	9.56	23	3	.10	.7	.9	SF2	1.2X	146	7
2002	FEB	27	0009	29.63	18	51.95	155	10.35	3.67	22	7	.09	1.2	.7	LOI	1.9X	293	45
2002	FEB	27	0139	44.26	18	48.37	155	10.98	7.86	15	4	.12	1.5	1.2	LOI	1.8X	299	49
2002	FEB	27	0343	49.33	19	29.42	154	53.27	5.18	21	4	.14	.9	1.3	LER	2.2X	138	5
2002	FEB	27	0430	29.25	19	5.31	155	29.56	29.26	24	4	.09	.9	1.7	DLS	1.7X	201	8
2002	FEB	27	0627	3.82	19	23.99	155	29.30	8.43	16	3	.13	.5	.9	KAO	.9X	75	4
2002	FEB	27	1851	6.62	19	1.91	155	15.83	26.29	4511		.11	.8	1.9	LOI	2.4X	221	25
2002	FEB	28	0223	18.01	19	13.61	155	28.78	0.06	4012		.17	.4	.2	LSW #	2.0X	102	8
2002	FEB	28	0234	13.20	19	20.44	155	4.02	5.83	19	3	.14	1.2	1.1	SF5	1.2X	224	7
2002	FEB	28	0423	45.50	20	5.19	155	38.35	8.31	17	3	.19	2.2	1.0	KOH	1.5X	304	25
2002	FEB	28	1150	39.57	19	21.98	155	14.54	2.37	16	5	.12	.3	.4	KOA	1.3X	137	3
2002	FEB	28	1323	7.97	19	23.00	155	17.03	2.39	15	6	.09	.4	.3	SSC	1.1X	99	1
2002	MAR	1	0206	25.61	20	1.34	155	30.24	3.30	20	5	.17	1.0	1.7	KEA	1.4X	235	24
2002	MAR	1	0627	3.47	19	55.91	155	10.39	5.75	15	5	.11	.9	1.6	KEA	1.4X	251	34
2002	MAR	1	0637	37.93	18	58.34	155	29.73	37.02	22	6	.11	1.3	1.6	DLS	1.6X	254	18
2002	MAR	1	1326	16.26	19	28.58	155	27.48	8.18	31	6	.11	.4	1.0	KAO	1.5X	58	6
2002	MAR	1	1651	34.25	19	26.11	155	18.80	6.97	31	8	.09	.4	.6	INT	1.9X	89	2
2002	MAR	1	1913	51.97	19	20.86	155	2.27	7.65	29	9	.09	.7	.6	SF5	1.1X	224	7
2002	MAR	1	1942	18.35	19	22.22	154	57.87	1.68	14	4	.12	.8	.6	SLE	1.6X	246	6
2002	MAR	2	0810	20.45	19	25.17	155	29.63	10.33	25	6	.09	.4	1.0	KAO	1.1X	77	6
2002	MAR	2	0935	3.44	19	9.16	155	34.21	1.98	22	2	.13	.5	1.4	LSW	1.9X	122	11
2002	MAR	2	1423	54.34	19	5.14	155	29.52	29.44	21	3	.09	1.2	2.1	DLS	1.8X	197	9
2002	MAR	2	1617	25.31	19	7.67	155	34.68	48.30	14	2	.11	1.5	2.4	DLST	2.4X	136	12
2002	MAR	2	1724	14.56	19	29.23	155	27.44	6.52	20	4	.10	.4	1.5	KAO	1.6X	85	5
2002	MAR	2	1809	42.74	19	19.60	155	5.44	5.35	4011		.10	.6	.9	SF4	1.8X	214	8
2002	MAR	2	1811	53.76	19	19.15	155	5.53	2.49	17	6	.06	.7	.8	SSF	1.0X	227	9
2002	MAR	2	2045	53.45	19	18.53	155	13.28	8.04	31	2	.11	.5	.7	SF2	1.8X	169	8
2002	MAR	3	1014	47.69	19	23.19	155	14.66	2.56	14	4	.08	.3	.5	SEC	1.3X	154	3
2002	MAR	3	1052	50.16	19	20.30	155	4.54	7.49	31	4	.11	.7	.6	SF5	2.1X	192	8
2002	MAR	3	1346	28.77	19	22.16	155	2.22	7.90	28	3	.12	1.0	.6	SF5	1.6X	199	5
2002	MAR	3	1451	55.02	19	18.32	155	5.96	4.74	25	4	.09	1.0	3.8	SSF	1.8X	231	10
2002	MAR	3	1659	58.42	19	24.30	155	17.84	3.38	39	8	.10	.2	.2	SSCF	2.3X	37	2
2002	MAR	3	2038	26.96	19	18.05	155	46.37	10.95	25	6	.10	.6	.5	KON	1.5X	185	13
2002	MAR	3	2058	55.85	19	47.12	156	8.66	6.42	17	3	.11	1.2	.9	HUA	1.4X	197	50
2002	MAR	3	2315	52.67	19	22.38	155	29.10	10.15	39	8	.10	.4	.5	KAO	1.6X	61	3
2002	MAR	4	0048	27.31	19	18.66	155	6.22	6.93	34	7	.09	.6	.8	SF4	1.8X	224	9
2002	MAR	4	0108	14.68	19	13.25	155	30.35	36.99	30	6	.06	.6	1.3	DLS	1.7X	87	8
2002	MAR	4	0611	49.93	19	18.51	155	13.02	9.02	33	6	.10	.7	.6	SF2	1.5X	175	8

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	4	0815	15.23	19	25.88	155	18.95	6.54	23	6	.08	.5	.8	INT	1.6X	152	3
2002	MAR	4	1006	30.15	19	27.29	155	28.11	9.28	20	3	.10	.5	1.4	KAO	1.3X	69	9
2002	MAR	4	1053	2.61	19	58.21	155	53.63	24.66	26	3	.10	1.1	2.4	KOH	2.3X	162	21
2002	MAR	4	1409	20.33	19	50.69	155	34.65	33.16	4210		.10	.6	.9	KEA	2.4X	118	9
2002	MAR	4	1523	17.73	19	23.38	155	17.10	2.51	25	6	.08	.3	.2	SSC	1.9X	55	0
2002	MAR	4	1659	44.42	19	21.10	155	6.05	8.05	37	3	.11	.8	.6	SF4	2.2X	176	5
2002	MAR	4	2014	29.87	19	22.45	155	11.06	2.97	19	4	.10	1.1	.4	SER	1.6X	152	2
2002	MAR	4	2024	4.39	19	23.65	155	16.13	10.85	11	2	.06	1.5	1.1	INTL	1.6X	142	1
2002	MAR	4	2319	9.61	19	46.74	155	47.62	14.09	38	7	.10	.6	.4	HUA	2.8X	121	11
2002	MAR	5	0437	42.72	19	5.68	155	29.47	28.72	4913		.09	.6	1.0	DLS	2.7X	177	8
2002	MAR	5	0501	35.05	19	19.29	155	5.36	5.15	28	5	.12	.9	1.9	SF4	1.6X	225	8
2002	MAR	5	1125	20.42	19	17.93	155	13.95	5.81	16	3	.06	1.1	2.1	SF2	1.7X	228	7
2002	MAR	5	1235	57.77	19	28.75	155	26.88	9.49	38	9	.12	.4	.8	KAO	1.7X	59	6
2002	MAR	5	1311	56.27	19	25.76	155	16.68	13.79	19	5	.13	1.2	.8	DEPL	1.9X	189	2
2002	MAR	5	1358	39.17	19	20.81	155	6.83	7.70	4412		.12	.7	.5	SF4	2.1X	176	5
2002	MAR	5	1508	32.81	19	25.26	155	16.77	1.83	34	6	.11	.3	.2	SNCF	2.4X	50	1
2002	MAR	5	1515	26.35	19	18.94	155	13.73	6.08	26	2	.11	.8	1.5	SF2	1.9X	196	7
2002	MAR	5	1842	30.83	19	22.92	155	24.88	9.12	32	6	.11	.4	.8	KAO	1.8X	58	5
2002	MAR	5	1921	13.67	19	23.52	155	15.05	3.14	31	7	.10	.3	.3	SEC	2.4X	97	2
2002	MAR	5	2131	56.58	19	20.60	155	12.26	8.75	33	3	.14	1.0	.6	SF3	1.8X	197	4
2002	MAR	5	2214	50.94	19	42.52	155	45.45	12.54	34	4	.11	.6	.3	HUA	2.4X	75	9
2002	MAR	5	2314	21.35	19	23.45	155	16.17	11.60	13	2	.09	1.5	1.1	INTL	1.6X	194	1
2002	MAR	5	2359	50.84	19	23.57	155	16.97	3.09	12	5	.07	.6	.5	SSC	.8X	93	0
2002	MAR	6	0145	11.42	19	23.62	155	17.05	2.70	13	5	.05	.4	.3	SSC	1.3X	85	0
2002	MAR	6	0152	58.57	19	21.23	155	18.53	8.19	21	5	.13	.8	1.1	SWRL	1.6X	181	5
2002	MAR	6	0333	52.68	19	21.48	155	17.64	8.66	14	3	.10	1.0	1.5	SWRL	1.8X	182	3
2002	MAR	6	0810	22.44	19	22.67	155	17.00	10.08	19	4	.12	.8	1.0	INTL	1.4X	85	1
2002	MAR	6	0918	33.82	19	21.26	155	18.96	2.83	24	7	.10	.3	.6	SWR	1.4X	82	3
2002	MAR	6	1225	10.16	19	57.58	155	38.20	0.38	10	2	.09	.5	.4	KOH	1.9X	142	11
2002	MAR	6	1416	12.65	19	20.69	155	51.44	8.88	21	3	.14	1.3	.9	KON	1.6X	233	20
2002	MAR	6	1703	16.51	19	23.88	155	14.21	2.22	14	3	.05	.8	.6	SECL	1.4X	274	4
2002	MAR	6	1932	16.35	19	19.44	155	17.98	5.96	4310		.12	.4	.7	SWR	2.6X	131	3
2002	MAR	6	2033	42.70	19	24.52	155	17.61	9.25	14	2	.10	1.2	1.5	INTL	1.3X	82	1
2002	MAR	6	2130	0.16	19	38.30	155	54.13	23.28	20	4	.11	1.4	1.6	KON	1.2X	246	9
2002	MAR	7	0001	3.36	18	59.35	155	31.13	39.33	26	7	.08	1.0	1.1	DLS	1.6X	236	15
2002	MAR	7	0030	16.87	19	13.04	155	27.74	7.42	17	3	.14	.7	1.8	LSW	1.5X	133	7
2002	MAR	7	0221	16.06	19	25.47	155	16.09	12.04	19	6	.16	1.0	.7	INTL	1.8X	162	2
2002	MAR	7	1030	24.77	20	11.90	155	51.36	40.41	21	4	.12	1.7	1.0	KOH	1.6X	161	11
2002	MAR	7	1427	33.54	19	16.51	155	29.72	10.21	33	6	.11	.4	.8	LSW	1.6X	83	3
2002	MAR	7	1626	32.04	19	26.63	155	18.99	4.68	25	6	.14	.7	1.3	SNC	1.5X	169	3
2002	MAR	7	1704	51.17	19	26.02	155	19.65	3.46	25	5	.14	.4	.8	KAO	1.4X	108	4
2002	MAR	7	2040	22.07	19	26.59	155	19.05	5.43	23	6	.12	.6	1.2	KAO	1.4X	169	3
2002	MAR	7	2059	55.19	19	26.18	155	30.03	10.23	21	3	.09	.4	1.1	KAO	1.2X	74	8
2002	MAR	7	2102	21.77	19	26.22	155	30.15	10.51	29	8	.10	.4	.9	KAO	1.5X	50	8
2002	MAR	8	0201	18.58	19	25.53	155	17.25	9.14	19	5	.11	.9	.6	INTL	1.7X	182	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	8	0354	13.76	19	16.39	155	26.92	8.77	13	4	.11	1.3	.6	LSW	1.8X	275	9
2002	MAR	8	0419	51.63	19	49.98	155	20.47	9.16	14	5	.12	1.0	1.6	KEA	1.4X	240	29
2002	MAR	8	0516	6.38	19	16.91	155	30.08	10.36	25	4	.14	.5	1.3	LSW	1.3X	94	11
2002	MAR	8	0543	41.68	19	26.43	155	19.48	4.11	19	6	.10	.5	.9	KAO	1.3X	162	4
2002	MAR	8	0547	22.34	19	24.56	155	17.42	3.60	15	5	.10	.9	.6	SNCL	1.0X	81	1
2002	MAR	8	0701	41.93	18	58.97	155	30.99	39.03	21	4	.09	1.7	1.4	DLS	1.6X	245	16
2002	MAR	8	0917	17.69	19	27.18	155	18.26	5.66	22	5	.12	.8	1.1	INT	1.5X	180	3
2002	MAR	8	0927	31.41	19	21.29	155	18.76	2.86	4511		.11	.2	.5	SWR	2.4X	48	3
2002	MAR	8	1522	11.21	19	26.49	155	19.28	4.91	25	6	.13	.5	1.2	KAO	1.6X	125	4
2002	MAR	8	1924	21.78	19	27.04	155	18.35	6.01	26	8	.12	.7	1.0	INT	1.3X	196	3
2002	MAR	8	2110	15.63	19	22.09	155	30.05	10.11	32	6	.10	.4	.6	KAO	1.5X	64	4
2002	MAR	8	2117	19.37	19	3.48	155	45.53	26.14	19	5	.10	1.1	1.6	KON	1.2X	224	11
2002	MAR	8	2134	31.13	19	25.73	155	19.86	6.63	39	7	.11	.4	.7	KAOF	2.7X	103	4
2002	MAR	8	2218	25.04	19	45.98	155	34.31	11.80	18	5	.11	.9	1.2	KEA	1.1X	188	14
2002	MAR	9	0030	11.14	19	26.58	155	19.10	5.31	30	8	.11	.5	1.0	KAO	1.8X	150	3
2002	MAR	9	0526	20.99	19	26.14	155	19.88	6.11	24	5	.10	.5	1.1	KAO	1.3X	127	4
2002	MAR	9	1036	55.08	19	24.38	155	17.43	4.98	16	4	.10	.7	.9	SSCL	1.6X	84	1
2002	MAR	9	1328	5.68	19	25.79	155	20.21	3.52	20	5	.08	.4	.7	KAO	1.4X	134	4
2002	MAR	9	1530	37.77	19	27.70	155	46.40	9.48	22	5	.11	.8	.8	KON	1.6X	233	5
2002	MAR	9	1551	26.41	19	25.55	155	16.26	2.74	11	2	.13	1.2	.6	SNCL	1.0X	221	2
2002	MAR	9	1740	21.70	19	25.10	155	15.34	0.18	19	5	.10	.2	.4	SNCL	1.3X	188	3
2002	MAR	9	1931	48.89	19	23.01	155	27.29	9.90	23	5	.11	.5	.8	KAO	1.0X	86	1
2002	MAR	10	0212	26.15	19	47.04	155	24.99	20.88	17	3	.10	1.6	1.1	KEA	1.4X	261	4
2002	MAR	10	0259	41.46	19	36.25	155	25.52	8.85	23	3	.12	.5	.8	KEA	1.1X	116	6
2002	MAR	10	0425	12.07	19	24.79	155	17.13	10.61	17	5	.14	.9	.9	INTL	1.7X	101	0
2002	MAR	10	0628	45.01	19	47.90	155	49.44	14.90	18	2	.12	3.0	1.3	HUA	1.5X	240	12
2002	MAR	10	1149	37.96	19	26.39	155	19.79	4.71	30	7	.10	.5	1.2	KAO	1.6X	116	4
2002	MAR	10	1228	50.83	19	26.31	155	19.80	3.94	21	6	.09	.6	.9	KAO	1.2X	154	4
2002	MAR	10	1302	16.34	19	26.76	155	19.27	5.56	28	6	.12	.5	1.1	KAO	1.6X	109	4
2002	MAR	10	1335	6.10	19	40.98	156	28.28	35.11	25	7	.13	1.1	4.0	DIS	2.1X	287	66
2002	MAR	10	1421	20.43	19	26.33	155	20.06	3.26	18	5	.09	.5	.8	KAO	1.1X	151	5
2002	MAR	10	1549	36.44	19	25.51	155	16.49	1.67	13	3	.08	.6	.4	SNC	1.3X	187	1
2002	MAR	10	1925	23.29	19	20.82	155	9.38	6.17	24	2	.08	1.5	.7	SF3	1.3X	205	2
2002	MAR	10	2148	19.13	19	30.78	155	15.97	8.25	26	2	.13	.6	2.0	GLN	1.2X	133	10
2002	MAR	10	2210	10.86	19	26.02	155	16.58	8.73	20	4	.09	.8	.8	INTL	1.6X	171	2
2002	MAR	10	2331	15.98	19	26.49	155	19.56	4.60	18	4	.08	.6	1.5	KAO	1.4X	162	4
2002	MAR	11	0033	21.95	19	26.44	155	19.52	5.78	29	7	.10	.5	1.1	KAO	1.8X	142	4
2002	MAR	11	0130	11.00	19	8.22	155	32.74	31.51	5116		.08	.5	.9	DLSF	2.9X	143	9
2002	MAR	11	0538	3.88	19	24.66	155	19.31	4.70	14	4	.09	.5	1.0	KAO	1.0X	101	2
2002	MAR	11	1206	34.13	20	5.08	156	0.71	14.72	32	5	.11	1.2	1.4	KOH	2.3X	167	25
2002	MAR	11	1503	46.68	19	31.90	155	50.84	9.83	15	5	.16	.8	.9	KON	1.2X	173	9
2002	MAR	11	2100	3.02	19	21.73	155	3.87	7.05	28	4	.15	1.3	.7	SF5	1.3X	211	5
2002	MAR	12	0132	18.12	19	25.22	155	15.65	6.21	13	4	.24	1.5	1.0	INTL	1.2X	242	2
2002	MAR	12	0313	39.41	19	17.83	155	6.06	6.67	25	4	.09	1.0	.8	SF4	1.4X	231	10
2002	MAR	12	0544	10.55	19	8.37	155	33.93	7.79	25	5	.09	.5	1.6	LSW	1.7X	134	11

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	12	1318	54.64	19	26.30	154	57.07	3.08	15	3	.15	1.2	.6	SLE	1.5X	175	4
2002	MAR	12	1839	40.37	19	28.82	155	27.53	7.39	3410		.10	.3	1.1	KAO	1.5X	78	6
2002	MAR	12	1901	14.04	19	24.63	155	16.52	8.21	13	4	.14	1.7	.7	INTL	1.5X	166	1
2002	MAR	12	2012	35.03	19	32.28	155	5.33	1.06	29	7	.09	.6	.4	HIL	1.3X	171	15
2002	MAR	12	2140	56.14	19	3.99	155	25.06	32.56	30	8	.08	.8	1.3	DLS	1.8X	220	11
2002	MAR	13	0204	57.01	19	53.08	155	34.51	18.12	17	3	.09	.8	1.3	KEA	1.1X	171	9
2002	MAR	13	0818	3.55	19	23.73	155	15.49	2.58	15	5	.08	.3	.3	SEC	1.2X	143	2
2002	MAR	13	0835	57.84	19	18.27	154	58.89	40.96	36	5	.10	1.0	1.2	LER	1.8X	210	13
2002	MAR	13	2132	17.28	19	7.32	156	39.57	4.26	14	3	.11	4.0	4.2	DIS	1.4U	281	94
2002	MAR	14	0205	47.82	19	25.90	155	16.66	8.51	18	5	.14	1.3	.6	INTL	1.3X	216	2
2002	MAR	14	0409	8.62	19	24.98	155	15.42	3.43	13	3	.11	.9	.5	SNCL	1.1X	248	3
2002	MAR	14	0714	31.72	19	18.11	155	25.10	8.81	27	5	.10	.6	.7	LSW	1.0X	130	5
2002	MAR	14	1748	14.15	19	25.18	155	16.08	9.44	16	4	.11	.5	.7	INTL	1.6X	149	2
2002	MAR	14	1839	46.93	19	31.40	155	41.46	7.65	23	4	.14	.6	1.5	MLO	1.6X	107	8
2002	MAR	14	2039	0.07	19	19.75	155	7.12	4.40	26	5	.10	.9	2.2	SSF	1.3X	217	6
2002	MAR	14	2058	23.15	19	29.71	155	19.80	23.03	24	6	.09	.9	1.0	DML	1.2X	204	6
2002	MAR	15	0145	43.15	19	24.50	155	16.99	1.33	14	3	.11	.4	.2	SSC	1.8X	118	1
2002	MAR	15	0348	8.05	19	12.57	155	30.58	0.64	30	8	.17	.4	.3	LSW	1.5X	101	5
2002	MAR	15	0409	46.76	19	19.32	155	14.05	8.92	27	7	.14	.8	.5	SF2	1.1X	196	6
2002	MAR	15	0508	9.09	19	24.53	155	26.71	10.16	37	7	.12	.4	.7	KAO	1.8X	53	4
2002	MAR	15	0553	18.95	19	22.53	155	9.95	3.08	17	3	.09	1.2	.4	SER	1.6X	130	1
2002	MAR	15	0616	27.40	19	10.56	155	41.16	0.36	15	3	.15	.5	.4	LSW	1.4X	91	9
2002	MAR	15	0704	41.33	19	7.79	155	27.22	34.76	20		.12	2.4	3.0	DLST		267	3
2002	MAR	15	1442	8.00	19	25.02	155	19.66	5.87	16	3	.05	.4	1.1	KAO	1.1X	113	2
2002	MAR	15	1841	18.87	19	29.01	155	26.45	11.82	25	7	.11	.4	.7	KAO	1.1X	94	6
2002	MAR	15	1842	35.71	19	18.70	155	25.03	9.02	24	5	.13	.6	.9	LSW	.9X	179	4
2002	MAR	15	2319	11.39	19	58.82	155	20.87	10.66	20	3	.09	1.2	.8	KEA	1.3X	244	25
2002	MAR	16	0048	39.68	19	22.29	155	27.94	5.04	3510		.14	.4	.6	KAO	1.8X	69	1
2002	MAR	16	0713	47.87	19	25.77	155	37.26	12.95	22	6	.13	.6	1.0	MLO	.9X	95	3
2002	MAR	16	0723	5.77	19	12.99	155	30.70	0.12	3810		.15	.3	.2	LSW	1.7X	77	8
2002	MAR	16	0946	39.16	18	57.27	155	28.48	35.14	37	9	.10	.9	1.3	DLS	2.1X	233	20
2002	MAR	16	1817	57.50	19	18.69	155	13.23	2.56	31	5	.11	.6	1.1	SSF	1.3X	213	7
2002	MAR	17	0221	38.95	19	22.20	155	8.91	4.47	32	5	.10	.8	.5	SER	1.8X	177	2
2002	MAR	17	0758	13.96	19	41.54	155	56.30	30.06	19	4	.10	1.4	1.5	HUA	1.4X	275	10
2002	MAR	17	0801	50.12	19	23.72	155	16.72	2.70	15	5	.06	.4	.3	SSC	1.0X	74	0
2002	MAR	17	1148	36.95	19	9.40	155	41.33	13.09	11	2	.14	1.5	1.0	DLS	1.3X	224	8
2002	MAR	17	1222	26.69	19	23.42	155	2.04	6.99	31	5	.14	1.2	.8	SF5	1.2X	197	4
2002	MAR	17	1634	44.75	19	29.71	155	27.60	5.29	19	6	.10	.3	1.5	KAO	1.8X	89	4
2002	MAR	17	1647	50.68	19	15.04	155	28.34	8.93	18	1	.14	.6	1.3	LSW	1.4X	113	3
2002	MAR	17	2053	33.72	19	40.22	155	48.80	13.48	16	4	.09	.9	.3	HUA	1.2X	155	3
2002	MAR	17	2341	48.23	19	22.00	155	19.00	31.31	19	5	.11	1.3	1.2	DEP	1.5X	223	3
2002	MAR	18	0416	49.35	19	24.86	155	29.81	11.14	21	3	.07	.4	.8	KAO	1.4X	87	6
2002	MAR	18	0503	5.28	19	45.62	155	35.14	5.65	20	3	.14	.5	1.7	KEA	1.8X	115	13
2002	MAR	18	0956	25.94	19	11.26	155	27.15	9.16	41	7	.13	.4	.5	LSW	2.5X	140	3
2002	MAR	18	0956	55.11	19	12.00	155	25.86	0.97	18	5	.11	.5	.4	LSW	2.0X	170	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	19	0027	13.58	19	23.16	155	14.77	2.58	15	4	.06	.3	.4	SEC	1.4X	127	2
2002	MAR	19	0413	54.42	19	47.01	155	0.38	8.10	18	7	.17	1.5	1.1	KEA	1.4X	322	48
2002	MAR	19	0651	42.85	19	55.53	155	30.43	18.31	15	3	.10	1.1	2.0	KEA	1.0X	276	17
2002	MAR	19	0941	54.04	19	26.20	155	19.03	6.66	23	6	.08	.6	.9	KAO	1.4X	163	3
2002	MAR	19	1320	20.71	19	19.34	155	6.91	7.42	28	6	.10	1.1	.7	SF4	1.6X	246	7
2002	MAR	19	1755	30.15	19	27.23	155	25.30	2.91	15	2	.09	.4	2.0	KAO	1.3X	68	6
2002	MAR	19	1918	54.95	19	19.84	155	9.84	2.75	15	6	.11	.9	.7	SSF	1.5X	265	4
2002	MAR	19	2134	37.20	19	21.99	155	28.25	6.07	30	5	.11	.5	.8	KAO	1.4X	68	1
2002	MAR	20	0310	16.05	19	52.66	155	29.54	23.68	26	7	.09	.7	1.3	KEA	1.7X	158	11
2002	MAR	20	0935	29.88	19	20.11	155	11.68	8.22	36	6	.10	.7	.5	SF3	1.6X	172	5
2002	MAR	20	0953	58.23	19	18.76	155	6.79	8.02	4110		.10	.5	.4	SF4	2.2X	196	8
2002	MAR	20	1001	55.35	19	54.54	155	21.90	11.41	30	3	.11	1.2	.4	KEA	1.8X	238	3
2002	MAR	20	1051	16.77	19	26.23	155	19.44	3.68	23	5	.11	.5	.8	KAO	1.7X	157	4
2002	MAR	20	1419	59.38	19	16.17	155	29.35	12.57	23	3	.11	.4	1.1	LSW	1.6X	98	2
2002	MAR	20	1510	6.67	19	17.40	155	5.58	4.64	20	2	.09	1.2	5.7	SSF	1.3X	262	11
2002	MAR	20	1552	30.64	19	22.99	155	14.57	3.00	15	5	.06	.4	.5	SEC	1.3X	119	3
2002	MAR	20	2039	32.15	19	23.66	155	15.19	2.73	15	5	.08	.4	.5	SEC	1.2X	92	2
2002	MAR	20	2202	4.54	19	24.32	155	15.83	14.98	18	3	.09	.8	.5	DEP	.9X	228	2
2002	MAR	21	0543	5.33	19	42.99	156	37.71	6.37	16	2	.10	3.7	4.8	DIS	1.6X	248	83
2002	MAR	21	1438	54.10	19	24.33	155	17.04	1.34	15	4	.11	.3	.2	SSC	1.5X	79	1
2002	MAR	21	1549	5.35	19	23.40	155	16.64	1.33	37	8	.13	.3	.2	SSC	2.4X	49	1
2002	MAR	21	2324	43.48	19	29.75	155	54.49	12.03	18	5	.13	1.2	.6	KON	1.2X	220	22
2002	MAR	22	0409	21.80	19	22.11	155	28.75	10.70	5013		.12	.3	.4	KAOF	3.4X	37	2
2002	MAR	22	0410	33.90	19	22.26	155	28.44	9.95	30	2	.09	.4	.5	KAO	2.3X	65	1
2002	MAR	22	0712	53.47	19	18.70	155	7.09	7.64	29	6	.09	1.0	.7	SF4	1.8X	225	9
2002	MAR	22	0905	17.67	19	30.15	155	54.40	13.09	17	2	.10	1.7	.6	KON	1.5X	277	15
2002	MAR	22	1018	26.97	19	26.51	155	19.51	2.97	21	7	.12	.6	.8	KAO	1.3X	163	4
2002	MAR	22	1520	28.91	19	27.08	154	50.65	8.09	15	4	.19	1.6	.7	LER	1.0X	254	1
2002	MAR	22	2121	56.15	19	21.80	155	11.39	3.42	21	5	.06	.8	.5	SER	1.5X	193	3
2002	MAR	22	2220	7.93	18	53.92	155	15.92	15.90	26	3	.10	1.5	6.8	LOI	1.6X	253	36
2002	MAR	23	1253	11.95	19	20.08	155	5.51	3.69	22	5	.10	.8	1.9	SSF	1.1X	254	7
2002	MAR	23	1346	50.72	19	59.35	156	12.99	6.87	18	5	.12	1.0	1.7	KOH	1.6X	214	48
2002	MAR	23	1459	48.63	18	58.55	155	27.97	39.68	34	6	.09	.9	1.2	DLS	2.0X	235	20
2002	MAR	23	1525	24.56	18	54.74	155	17.14	16.80	14	2	.13	2.0	15.7	LOI -	1.5X	321	33
2002	MAR	23	1946	46.56	19	17.33	155	27.85	8.26	32	7	.15	.4	.9	LSW	1.3X	109	6
2002	MAR	23	2152	24.27	19	20.08	155	11.80	6.82	25	4	.12	.9	1.0	SF3	1.4X	221	5
2002	MAR	24	0221	40.83	19	18.69	155	15.62	7.44	37	9	.09	.4	.7	SF1	1.7X	162	5
2002	MAR	24	0649	37.28	19	21.77	155	4.10	7.25	29	8	.15	.8	.8	SF5	1.6X	210	5
2002	MAR	24	0923	40.01	19	51.29	155	35.11	29.09	29	7	.10	.7	1.3	KEA	1.9X	114	8
2002	MAR	24	1133	37.36	19	16.76	155	12.25	5.94	30	8	.10	.5	1.0	SF3	1.4X	225	2
2002	MAR	24	1704	32.05	19	19.15	155	9.86	5.46	28	5	.10	.8	1.3	SF3	1.5X	215	9
2002	MAR	24	2308	57.41	20	12.26	154	46.44	2.44	4210		.10	1.7	1.1	KEA	3.3X	256	62
2002	MAR	24	2353	4.72	19	26.72	155	30.29	12.25	22	4	.12	.5	.9	KAO	1.2X	72	6
2002	MAR	25	0000	0.17	19	21.15	155	10.67	1.20	15	4	.09	.7	.6	SER	1.8X	204	5
2002	MAR	25	0026	37.44	19	22.40	155	10.64	3.19	24	7	.09	.9	.6	SER	1.8X	184	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	25	0215	33.24	19	24.94	155	19.37	6.60	24	7	.09	.4	.9	KAO	1.4X	111	2
2002	MAR	25	0654	11.17	19	26.52	155	30.56	11.49	19	3	.12	.5	1.4	KAO	1.1X	90	5
2002	MAR	25	1236	16.33	19	30.20	155	26.96	4.20	19	3	.12	.4	1.6	MLO	2.0X	114	4
2002	MAR	25	1236	59.45	19	27.49	155	23.84	10.46	44	8	.12	.4	.5	KAO	2.4X	43	4
2002	MAR	25	1816	11.16	19	18.25	155	12.96	9.21	31	3	.10	.5	.8	SF2	2.0X	177	8
2002	MAR	25	1817	16.25	19	17.67	155	12.64	7.99	19	2	.09	1.2	1.9	SF2	1.6X	240	9
2002	MAR	25	1827	47.91	19	15.57	155	28.25	6.80	15	1	.13	.6	2.4	LSW	1.3X	131	11
2002	MAR	25	1937	11.82	19	27.62	155	29.38	7.42	27	5	.12	.4	1.5	KAO	1.7X	71	8
2002	MAR	25	1957	28.00	19	17.84	155	12.74	8.71	30	6	.09	.5	.8	SF2	1.8X	181	9
2002	MAR	25	2133	25.95	19	29.26	155	27.44	9.61	26	7	.11	.4	1.0	KAO	1.3X	86	5
2002	MAR	25	2346	29.86	19	25.02	155	31.57	11.56	23	5	.13	.5	1.0	KAO	1.3X	98	8
2002	MAR	26	0104	45.74	19	27.92	155	29.17	10.80	27	7	.11	.4	.8	KAO	1.4X	57	8
2002	MAR	26	0451	42.81	20	14.98	156	17.22	40.35	18	2	.17	2.4	3.7	KOH	1.7U	194	49
2002	MAR	26	0520	52.40	19	12.22	155	36.90	6.36	38	9	.18	.4	1.2	LSW	2.2X	86	13
2002	MAR	26	0538	14.01	19	50.71	155	52.17	11.97	27	5	.12	.8	.6	HUA	2.2X	161	18
2002	MAR	26	0626	44.10	19	19.83	155	2.33	1.11	34	7	.12	.9	.4	SSF	1.6X	209	9
2002	MAR	26	1215	56.70	19	23.46	155	14.93	3.14	31	7	.09	.3	.3	SEC	2.3X	98	2
2002	MAR	26	1755	48.47	19	23.19	155	29.37	10.17	30	6	.08	.4	.8	KAO	1.4X	87	3
2002	MAR	26	1842	34.63	19	26.09	154	54.44	2.24	15	4	.14	.8	.6	SLE	1.1X	191	3
2002	MAR	26	2035	56.86	19	15.38	155	30.46	7.63	29	4	.15	.5	1.1	LSW	1.5X	91	12
2002	MAR	26	2057	8.04	19	30.22	155	28.86	8.56	16	5	.13	.4	1.5	MLO	.8X	68	4
2002	MAR	26	2058	22.29	19	30.10	155	29.40	4.82	19	5	.11	.3	1.7	MLO	1.0X	69	5
2002	MAR	26	2202	54.51	19	17.95	155	13.88	9.34	30	5	.13	.5	.6	SF2	1.6X	177	8
2002	MAR	26	2341	21.72	19	17.12	155	11.44	0.01	28	7	.12	1.0	.4	SSF #	1.6X	213	11
2002	MAR	27	0301	46.53	19	24.80	155	17.01	1.24	10	4	.09	.4	.2	SNCT		154	0
2002	MAR	27	0411	31.83	19	21.52	155	12.90	2.85	17	5	.09	.7	.4	SER	1.7X	192	2
2002	MAR	27	0827	4.49	19	27.73	155	27.24	10.40	4510		.12	.3	.6	KAO	2.3X	46	8
2002	MAR	27	1459	42.76	19	2.98	155	30.47	43.30	21	3	.09	1.2	1.7	DLS	1.5X	220	13
2002	MAR	27	1840	38.48	19	22.99	155	14.66	2.80	20	7	.10	.3	.3	SEC	1.6X	141	2
2002	MAR	27	2249	10.77	19	38.18	156	7.71	39.78	29	5	.10	1.1	1.8	KON	2.0X	204	31
2002	MAR	27	2315	23.62	19	18.60	155	8.31	5.92	27	4	.09	.8	1.2	SF4	1.6X	242	9
2002	MAR	27	2344	57.67	19	23.60	155	16.78	2.81	18	6	.07	.3	.3	SSC	1.3X	69	0
2002	MAR	28	0044	0.88	19	29.23	155	27.07	4.49	31	7	.15	.3	2.5	KAO	1.5X	81	5
2002	MAR	28	0846	42.16	19	16.12	155	14.67	5.38	19	4	.10	1.1	2.7	SF1	1.1X	271	8
2002	MAR	28	1027	50.64	19	12.42	155	32.10	10.71	33	8	.15	.6	.8	LSW	2.1X	199	6
2002	MAR	28	1456	49.42	19	28.16	154	53.85	3.65	34	2	.12	.5	.6	SLEF	2.7X	131	3
2002	MAR	28	1735	35.01	19	21.46	155	2.15	7.92	27	3	.14	1.0	.8	SF5	1.1X	218	6
2002	MAR	28	2259	24.46	19	21.73	155	13.02	2.14	15	5	.10	.6	.3	SER	1.1X	190	2
2002	MAR	29	0137	20.63	19	22.59	155	2.53	7.49	24	6	.11	1.1	.7	SF5	.7X	210	4
2002	MAR	29	0500	35.11	19	27.10	155	29.27	11.00	22	5	.10	.4	1.0	KAO	1.0X	61	8
2002	MAR	29	0545	44.99	19	18.59	155	6.77	7.14	28	7	.11	.7	.8	SF4	1.3X	226	9
2002	MAR	29	0828	22.80	19	48.26	155	51.18	35.68	17	4	.13	1.3	2.1	HUA	1.7X	269	21
2002	MAR	29	0909	5.19	19	22.70	155	14.50	3.22	18	6	.09	.4	.3	SEC	1.6X	134	2
2002	MAR	29	1052	51.92	19	24.47	155	15.96	1.05	14	5	.09	.3	.4	SEC	1.2X	141	2
2002	MAR	29	1255	5.84	20	0.69	155	32.13	7.27	15	2	.17	.9	1.3	KEA	1.8X	185	21

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAR	29	1541	46.35	19	10.25	155	25.58	13.00	16	3	.12	1.3	1.7	DLS	1.6X	208	4
2002	MAR	29	1821	7.76	19	20.80	155	15.56	31.76	33	9	.11	.9	.7	DEP	1.7X	175	3
2002	MAR	29	2024	25.16	19	13.32	155	47.84	14.31	13	1	.08	2.4	.7	KON	1.3U	242	8
2002	MAR	30	0114	50.05	19	27.18	155	29.16	11.21	33	8	.10	.4	.5	KAO	1.6X	48	8
2002	MAR	30	0726	38.07	19	19.71	155	12.05	6.02	26	3	.12	.6	1.0	SF3	1.8X	170	6
2002	MAR	30	0729	54.83	19	1.61	155	21.80	35.39	23	3	.07	1.4	1.8	LOI	1.3X	220	18
2002	MAR	30	0945	17.20	19	17.55	155	19.28	6.44	24	4	.08	.5	.9	SWR	1.1X	162	1
2002	MAR	30	1228	5.64	19	22.25	155	28.72	10.19	4411		.10	.3	.6	KAO	1.7X	62	2
2002	MAR	30	1900	13.36	19	22.43	155	2.61	4.30	17	2	.10	1.5	2.9	SSF	1.9X	210	4
2002	MAR	31	0151	30.50	19	15.88	155	26.98	1.25	21	4	.12	.5	.6	LSW	1.3X	126	10
2002	MAR	31	0411	20.81	19	9.23	155	40.39	2.24	25	6	.13	.4	.8	LSW	1.6X	93	10
2002	MAR	31	0833	27.19	19	12.19	155	27.53	3.76	29	5	.15	.4	1.5	LSW	1.7X	126	5
2002	MAR	31	0935	9.18	19	17.08	155	29.82	10.32	25	2	.09	.4	.9	LSW	2.3X	91	4
2002	MAR	31	1304	20.10	19	17.53	154	58.69	40.12	20	4	.07	2.0	1.3	LER	1.3X	259	14
2002	MAR	31	1551	46.27	19	22.80	155	26.88	8.83	28	7	.10	.4	.6	KAO	1.3X	58	1
2002	MAR	31	2313	48.58	19	58.37	155	49.23	30.25	30	7	.09	.7	1.0	KOH	2.1X	141	18
2002	APR	1	0052	51.67	19	11.23	155	42.04	6.33	39	8	.14	.4	.8	LSWF	2.9X	104	8
2002	APR	1	0540	50.45	19	17.59	155	29.87	7.21	27	4	.11	.3	1.2	LSW	1.5X	92	5
2002	APR	1	1203	20.23	19	23.62	155	16.95	2.88	13	4	.05	.3	.3	SSC	1.4X	69	0
2002	APR	1	1654	7.89	19	23.11	155	14.81	3.14	13	3	.03	.3	.4	SEC	1.4X	114	2
2002	APR	1	1719	18.67	19	13.44	155	33.07	6.45	40	8	.15	.5	1.0	LSW	1.9X	77	6
2002	APR	2	0112	30.66	19	20.54	155	5.98	6.66	19	2	.13	1.0	1.1	SF4	1.0X	206	6
2002	APR	2	0354	25.93	19	2.18	155	24.68	55.75	28	2	.14	1.2	2.0	LOI	2.3X	211	15
2002	APR	2	0836	32.43	19	23.31	155	17.01	2.79	17	5	.05	.3	.2	SSC	1.6X	57	0
2002	APR	2	0912	14.47	19	54.33	155	43.11	9.55	15	3	.08	1.4	.5	HUA	1.3X	244	8
2002	APR	2	1521	47.67	19	20.36	155	12.95	7.56	3910		.12	.5	.4	SF2	1.7X	177	4
2002	APR	2	1839	26.11	19	13.98	155	26.16	2.12	3810		.10	.3	.5	LSW	1.8X	134	9
2002	APR	3	0157	42.90	19	22.81	155	30.57	9.12	27	6	.11	.4	.7	KAO	1.5X	59	5
2002	APR	3	0314	26.24	19	19.13	154	59.53	39.10	39	7	.10	1.3	.8	LER	1.9X	200	11
2002	APR	3	0320	53.14	19	24.16	155	26.45	8.79	27	5	.13	.4	1.0	KAO	1.5X	72	4
2002	APR	3	0356	43.95	19	25.76	155	29.10	10.35	20	4	.10	.4	.8	KAO	1.3X	50	7
2002	APR	3	0443	19.73	19	29.26	155	27.20	6.10	23	6	.11	.4	1.4	KAO	1.1X	90	5
2002	APR	3	1412	33.71	19	23.04	155	14.84	3.28	31	8	.09	.2	.3	SEC	2.4X	112	2
2002	APR	3	1548	57.52	20	0.57	155	32.83	41.70	4111		.10	.7	1.2	KEA	2.3X	182	20
2002	APR	3	2209	10.87	19	17.52	155	12.90	8.36	28	6	.13	.7	.7	SF2	1.3X	216	9
2002	APR	3	2303	2.24	20	53.54	155	10.64	7.24	26	5	.12	3.8	4.0	DIS	2.4X	267	105
2002	APR	4	0106	46.27	19	23.09	155	14.67	2.71	17	5	.08	.5	.4	SEC	1.3X	133	3
2002	APR	4	0427	53.53	19	18.15	154	58.69	40.95	31	5	.11	1.8	1.3	LER	1.6X	238	13
2002	APR	4	0729	15.52	19	30.15	155	5.86	12.68	25	7	.10	.5	1.1	GLN	1.2X	108	11
2002	APR	4	0750	29.55	19	10.59	155	16.75	43.33	37	7	.09	.9	1.1	DEP	1.7X	188	18
2002	APR	4	0816	38.48	19	25.12	155	29.87	10.51	17	3	.07	.5	1.2	KAO	1.2X	84	6
2002	APR	4	1103	50.50	19	28.41	155	37.25	12.76	20	4	.12	.6	.9	MLO	1.3X	103	3
2002	APR	4	1314	57.60	19	24.01	155	5.61	41.02	4812		.09	.6	.6	DEP	1.8X	153	3
2002	APR	4	1642	54.29	19	20.69	155	13.26	8.44	38	8	.10	.5	.4	SF2	1.8X	170	4
2002	APR	4	2147	2.22	20	0.31	155	44.29	8.30	16	5	.08	.9	1.0	KOH	1.2X	163	14

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	APR	5	0047	14.92	19	30.04	155	26.71	22.59	25	7	.09	.6	1.0	DML	1.5X	96	4
2002	APR	5	0216	12.86	19	35.20	156	26.90	5.68	19	2	.11	1.8	3.9	DIS	1.1U	234	65
2002	APR	5	0725	27.72	19	22.58	155	46.97	13.61	15	1	.13	1.7	.8	KON	1.2U	222	12
2002	APR	5	0845	27.02	19	25.08	155	16.23	4.17	14	2	.14	.9	.6	SNCL	1.6X	138	1
2002	APR	5	1003	59.98	19	29.97	155	50.70	10.51	19	4	.17	1.8	.7	KON	1.4X	265	8
2002	APR	5	1417	16.33	19	25.33	155	16.62	8.79	15	4	.10	1.3	.6	INTL	1.9X	186	1
2002	APR	5	1549	46.13	19	24.56	155	16.33	4.98	13	5	.10	1.3	.7	SNCL	1.4X	220	1
2002	APR	5	1551	3.05	19	24.98	155	16.79	5.00	15	3	.13	.6	.6	INTT		121	0
2002	APR	5	1619	25.53	19	23.30	155	15.32	2.96	8	2	.08	.6	.7	SEC	1.4X	151	2
2002	APR	5	1625	18.19	19	24.45	155	16.03	1.23	18	5	.13	.3	.4	SEC	2.1X	100	1
2002	APR	5	1626	32.00	19	23.67	155	16.80	2.94	14	4	.07	.4	.3	SSC	1.6X	66	1
2002	APR	5	2026	38.29	19	45.72	155	22.36	23.69	15	3	.08	1.8	1.9	KEA	1.3X	237	21
2002	APR	6	0147	33.59	19	55.26	155	40.83	17.53	18	4	.10	1.2	1.4	KOH	1.3X	270	7
2002	APR	6	0617	22.79	19	13.87	155	24.24	43.78	19	5	.09	1.3	1.6	DEP	1.2X	216	12
2002	APR	6	0717	51.96	19	23.06	155	14.84	3.02	21	7	.07	.3	.3	SEC	1.8X	130	2
2002	APR	6	0803	27.64	19	23.26	155	14.61	3.36	32	9	.10	.3	.3	SEC	2.2X	102	3
2002	APR	6	0925	50.82	19	23.87	155	1.59	6.19	22	5	.13	.9	.8	SF5	1.3X	186	4
2002	APR	6	0958	12.54	19	23.06	155	14.80	3.06	15	5	.04	.4	.4	SEC	1.2X	153	2
2002	APR	6	1639	11.22	19	19.43	155	28.45	9.16	28	6	.10	.4	.6	KAO	1.2X	90	6
2002	APR	6	2056	47.43	19	23.98	155	29.72	9.41	22	5	.07	.5	1.0	KAO	1.4X	130	5
2002	APR	6	2111	0.06	19	20.95	155	45.44	9.75	21	6	.11	.9	1.2	KON	1.0X	267	9
2002	APR	6	2314	51.99	19	24.40	155	25.54	3.78	24	4	.13	.4	1.7	KAO	1.1X	74	5
2002	APR	7	0101	26.00	19	25.19	154	54.84	6.75	17	4	.15	1.4	.8	LER	1.0X	204	4
2002	APR	7	0123	9.71	19	26.67	155	29.61	12.09	22	5	.11	.5	1.1	KAO	.9X	67	7
2002	APR	7	0133	55.13	20	22.36	156	15.47	6.09	20	4	.11	1.4	2.0	KOH	1.8X	184	42
2002	APR	7	0844	47.61	19	21.07	155	52.71	10.64	14	1	.08	2.3	.7	KON	1.2X	303	21
2002	APR	7	1200	29.38	19	51.19	155	44.04	12.06	17	3	.12	1.1	.6	HUA	1.4X	141	8
2002	APR	7	1257	19.39	19	21.54	155	25.72	8.71	25	5	.12	.5	.8	KAO	1.2X	70	4
2002	APR	7	1506	18.01	19	29.72	155	27.42	6.15	40	9	.11	.3	1.1	KAO	1.9X	47	4
2002	APR	7	1522	1.47	19	29.92	155	27.28	6.38	21	5	.10	.4	1.3	KAO	1.2X	76	4
2002	APR	7	1854	11.58	19	27.05	155	28.24	9.75	21	5	.07	.4	1.2	KAO	1.1X	72	8
2002	APR	7	1950	17.10	19	20.85	155	13.87	7.92	38	8	.13	.5	.4	SF2	1.6X	165	4
2002	APR	7	2123	2.53	19	46.54	155	52.93	28.43	32	8	.12	.9	1.5	HUA	1.7X	206	11
2002	APR	7	2154	40.00	19	9.08	155	27.48	10.14	30	6	.15	.8	.5	LSW	1.6X	257	1
2002	APR	7	2231	43.26	19	33.00	155	35.76	9.70	18	3	.15	.6	1.1	MLO	1.2X	115	2
2002	APR	7	2302	10.42	19	55.16	155	21.84	20.99	16	5	.10	1.5	1.9	KEA	1.3X	230	18
2002	APR	7	2342	26.95	19	25.88	155	19.52	8.25	17	5	.07	.5	1.2	KAO	1.1X	95	3
2002	APR	7	2349	0.94	19	42.50	155	6.92	39.59	3610		.10	.6	1.1	HIL	1.8X	143	9
2002	APR	8	0244	28.14	19	26.81	155	18.86	4.80	14	2	.08	.5	1.5	SNC	1.4X	109	3
2002	APR	8	0613	56.22	19	16.82	155	29.38	13.41	39	9	.11	.3	.5	DLS	2.1X	85	3
2002	APR	8	1224	11.65	19	51.84	155	5.38	18.70	15		.26	4.6	7.8	KEA	1.4X	241	19
2002	APR	8	2016	19.78	19	18.06	155	6.95	5.00	35	7	.12	.8	1.2	SSF	2.1X	220	10
2002	APR	8	2036	1.79	19	13.99	155	26.39	10.40	39	8	.11	.4	.4	LSWF	2.4X	131	7
2002	APR	9	0015	47.65	19	16.53	154	58.83	38.90	23	4	.09	2.1	1.5	LER	1.5X	244	16
2002	APR	9	0201	22.62	19	26.16	154	54.83	2.41	26	2	.13	.8	.6	SLE	1.8X	174	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	APR	9	0212	4.03	19	23.76	155	16.74	3.19	30	6	.11	.4	.3	SSC	2.3X	58	0
2002	APR	9	0219	3.67	19	23.80	155	17.09	2.92	13	4	.11	.5	.3	SSC	1.6X	79	1
2002	APR	9	0409	16.57	19	11.55	155	32.83	1.07	26	6	.12	.4	.5	LSW	1.6X	96	8
2002	APR	9	0654	7.32	19	22.62	155	26.35	9.42	28	5	.11	.4	.8	KAO	1.7X	58	2
2002	APR	9	1101	51.88	19	20.94	155	30.18	9.71	27	3	.08	.5	.8	KAO	1.4X	104	5
2002	APR	9	1236	55.21	19	53.93	155	27.65	28.64	32	10	.08	.6	1.1	KEA	1.6X	146	12
2002	APR	9	1934	35.34	19	27.88	155	27.97	14.99	48	14	.10	.3	.3	DML	2.7X	57	8
2002	APR	9	2039	48.28	19	45.86	155	59.03	11.60	34	4	.12	1.3	3.5	HUA	2.4X	178	46
2002	APR	9	2104	45.45	19	24.15	155	1.47	3.37	13	2	.09	1.6	.9	SME	1.4X	193	5
2002	APR	9	2245	31.70	19	19.16	155	12.73	3.59	32	8	.12	.5	1.3	SSF	1.3X	188	6
2002	APR	10	0132	50.60	19	23.20	155	13.92	3.69	28	8	.11	.5	.5	SER	2.0X	121	2
2002	APR	10	0143	31.00	19	20.30	155	51.11	8.96	27	5	.15	.8	.6	KON	1.5X	223	19
2002	APR	10	0257	36.07	19	16.38	155	5.34	49.06	44	10	.13	1.0	.9	DEP	2.4X	193	13
2002	APR	10	0556	49.01	19	20.27	155	2.47	7.74	19	3	.11	1.2	1.0	SF5	1.6X	227	8
2002	APR	10	1040	52.11	19	23.41	154	59.07	3.61	16	4	.10	1.1	.8	SLE	1.5X	222	3
2002	APR	10	1319	18.32	19	25.52	155	19.09	7.88	19	6	.10	.5	1.0	KAO	1.0X	86	3
2002	APR	10	1602	17.10	19	20.50	155	13.57	5.40	26	6	.13	.8	1.1	SF2	1.1X	201	4
2002	APR	10	1616	29.64	19	21.24	155	30.06	10.75	30	8	.09	.5	.9	KAO	1.4X	173	5
2002	APR	10	1836	58.46	19	21.06	155	12.91	2.46	14	4	.03	.8	.5	SER	1.4X	198	3
2002	APR	10	1929	30.06	19	27.03	155	28.71	8.41	34	8	.12	.4	.9	KAO	1.6X	50	8
2002	APR	10	2042	55.74	19	22.65	154	59.93	8.40	30	6	.17	1.4	.7	LER	1.5X	222	5
2002	APR	10	2056	21.75	19	12.99	155	26.51	39.12	41	9	.09	.7	1.0	DLS	2.0X	136	7
2002	APR	10	2115	47.89	19	12.57	155	26.47	40.03	30	4	.09	.9	1.4	DLS	1.4X	144	6
2002	APR	10	2119	31.46	19	12.76	155	26.63	37.49	32	7	.07	.6	1.1	DLS	1.4X	139	6
2002	APR	11	0433	1.90	18	48.53	155	8.24	49.29	27	4	.10	1.7	2.5	LOI	1.6X	273	52
2002	APR	11	0608	38.25	19	21.72	155	24.99	14.11	30	8	.09	.5	.6	DEP	1.3X	105	4
2002	APR	11	0926	56.80	19	25.47	155	25.96	7.27	28	7	.12	.4	1.2	KAO	1.2X	54	6
2002	APR	11	1024	22.89	19	24.96	155	15.37	14.38	23	6	.13	1.0	.4	DEP	1.1X	240	3
2002	APR	11	1241	15.48	19	10.36	155	29.02	7.89	38	9	.13	.4	.6	LSW	2.1X	189	3
2002	APR	11	1331	58.50	19	19.14	156	0.31	11.29	15	5	.16	1.7	.7	KON	1.4X	285	31
2002	APR	11	1545	24.78	18	47.15	155	13.19	13.64	24	5	.18	9.5	13.7	LOI -	1.9X	316	49
2002	APR	11	2027	54.49	19	24.71	155	15.79	14.48	21	6	.12	.8	.5	DEP	1.0X	198	2
2002	APR	11	2038	36.03	19	23.20	155	14.92	3.18	15	6	.08	.4	.4	SEC	1.1X	127	2
2002	APR	11	2107	13.69	19	22.93	155	14.72	2.66	15	5	.10	.6	.3	SEC	1.5X	144	2
2002	APR	11	2224	35.27	19	50.26	155	1.30	39.09	47	13	.12	.7	1.2	KEA	2.3X	205	15
2002	APR	11	2335	43.29	18	48.58	155	24.25	4.70	15	4	.09	1.8	.7	LOI	1.1X	323	58
2002	APR	12	0012	29.29	19	28.99	154	53.89	0.01	23	3	.11	.4	.4	SLE #	1.3X	101	4
2002	APR	12	0150	12.20	19	25.38	155	15.00	14.85	24	7	.14	.9	.3	DEP	1.2X	230	4
2002	APR	12	0239	9.61	19	22.59	154	57.84	7.98	22	6	.11	1.0	.6	LER	1.4X	239	5
2002	APR	12	0313	58.33	19	22.70	155	14.36	2.84	15	4	.08	.6	.4	SEC	1.1X	161	2
2002	APR	12	0535	43.41	19	12.40	155	27.94	0.03	43	12	.14	.3	.2	LSW #	1.9X	112	5
2002	APR	12	0600	49.47	19	20.05	155	5.31	7.12	29	7	.12	.9	.9	SF4	1.3X	219	7
2002	APR	12	0638	46.61	19	22.55	154	59.76	3.69	29	6	.12	1.1	1.3	SLE	1.9X	207	5
2002	APR	12	0750	51.33	19	23.80	155	14.63	3.61	15	4	.10	.5	.6	SEC	1.4X	120	3
2002	APR	12	0840	3.08	19	24.86	155	14.16	31.28	45	9	.10	.5	.7	DEP	2.3X	57	5
2002	APR	12	0845	32.36	19	20.65	155	4.59	5.47	34	8	.13	.8	1.3	SF5	1.5X	216	7
2002	APR	12	1157	44.14	19	26.09	155	15.10	13.92	17	5	.16	1.4	.7	DEP	1.2X	255	4
2002	APR	12	1502	29.28	19	26.76	155	29.31	9.98	21	6	.08	.4	1.3	KAO	1.0X	83	7
2002	APR	12	1522	20.97	19	24.35	155	15.25	14.84	18	5	.10	2.1	.4	DEPL	1.4X	252	2
2002	APR	12	1716	8.12	19	25.92	155	15.93	15.61	17	5	.11	1.1	.7	DEPL	1.5X	199	3
2002	APR	12	2236	38.13	19	12.82	155	26.58	37.17	38	9	.08	.6	1.1	DLS	1.7X	137	7
2002	APR	13	0109	12.03	19	23.69	155	16.36	12.64	24	6	.15	1.0	.9	INTL	1.4X	165	1
2002	APR	13	0141	10.76	19	16.77	155	20.22	6.68	25	6	.09	.6	1.8	SWR	1.0X	217	8
2002	APR	13	0323	12.87	19	23.16	155	24.47	12.81	21	5	.07	.5	.8	KAO	.8X	99	6
2002	APR	13	0330	27.98	19	23.29	155	29.87	9.81	29	7	.08	.4	.6	KAO	1.0X	112	4
2002	APR	13	0946	17.28	19	21.46	155	1.94	3.51	31	6	.10	.9	1.9	SSF	1.6X	219	9
2002	APR	13	0949	13.68	19	8.41	155	36.77	1.58	23	4	.13	.5	.8	LSW	1.4X	116	16
2002	APR	13	1141	4.55	19	26.33	155	30.15	10.52	19	4	.07	.6	1.2	KAO	1.1X	96	8
2002	APR	13	1803	14.30	19	11.16	155	28.17	6.69	42	9	.14	.4	.7	LSW	2.3X	105	3
2002	APR	13	2118	53.79	20	1.59	155	52.44	41.46	18	3	.10	1.8	1.9	KOH	1.3X	153	15
2002	APR	13	2203	22.81	19	50.77	155	17.10	11.92	16	3	.11	1.6	1.1	KEA	1.3X	269	20
2002	APR	14	0140	50.07	19	26.06	155	19.09	7.00	27	6	.11	.4	.9	KAO	1.7X	73	3
2002	APR	14	0305	4.50	19	24.84	155	38.78	3.55	18	4	.11	.6	.6	MLO	.9X	127	2
2002	APR	14	0507	42.50	19	23.68	155	14.85	2.72	16	5	.12	.4	.6	SEC	1.3X	115	3
2002	APR	14	0545	34.65	19	21.04	156	22.17	8.25	25	5	.11	3.7	5.1	DIS	1.4X	270	66
2002	APR	14	0727	53.35	19	23.45	155	15.37	2.68	16	5	.09	.3	.3	SEC	1.3X	137	2
2002	APR	14	0856	22.99	19	17.61	155	35.64	13.08	20	4	.09	.4	1.4	DLS	1.6X	93	10
2002	APR	14	1035	8.01	20	7.42	156	57.22	15.33	20	4	.16	6.4	9.4	DIS	2.3X	271	90
2002	APR	14	1327	19.25	19	18.21	155	13.57	7.15	23	2	.08	.9	.8	SF2	1.6X	204	8
2002	APR	14	1736	29.22	19	25.03	155	19.33	7.01	22	6	.07	.4	.9	KAO	1.3X	80	3
2002	APR	14	2139	17.58	19	23.32	155	25.06	9.63	29	8	.11	.4	.8	KAO	1.2X	84	5
2002	APR	14	2143	50.22	19	23.36	155	14.23	3.02	18	6	.10	.6	.5	SEC	1.8X	117	2
2002	APR	15	0029	56.23	19	24.87	154	59.44	4.01	29	3	.13	.9	.5	SLE	2.0X	188	1
2002	APR	15	0316	35.05	19	22.60	155	14.40	2.70	13	4	.08	.7	.4	SEC	1.3X	166	2
2002	APR	15	0931	43.74	19	21.66	155	29.81	8.38	32	5	.10	.3	.7	KAO	1.8X	68	4
2002	APR	15	0953	34.86	20	21.04	155	34.16	17.97	22	3	.10	1.2	9.1	KOH	2.0X	208	33
2002	APR	15	1036	55.83	19	12.07	155	27.69	0.01	31	8	.12	.4	.2	LSW	1.7X	120	5
2002	APR	15	1908	45.60	19	22.85	155	14.56	3.30	37	10	.12	.4	.3	SEC	2.3X	120	2
2002	APR	15	2033	17.88	19	22.96	155	14.89	3.19	16	5	.08	.5	.3	SEC	1.4X	139	2
2002	APR	15	2220	57.18	19	20.68	155	6.89	3.27	24	6	.19	6.0	8.0	SSF #	1.1X	305	11
2002	APR	16	1032	55.48	19	28.91	154	53.56	0.02	31	4	.17	.4	.4	SLEF#	2.2X	106	4
2002	APR	16	1051	31.15	19	22.84	155	14.80	1.98	16	5	.09	.3	.3	SEC	1.7X	126	2
2002	APR	16	1432	34.39	19	48.28	155	54.04	27.97	28	7	.11	1.4	1.8	HUA	1.8X	272	15
2002	APR	16	1433	32.05	19	43.60	155	54.27	37.77	20	4	.10	1.8	1.4	HUA	1.3X	318	8
2002	APR	16	2348	45.12	19	11.29	155	28.74	7.58	39	9	.13	.4	.6	LSW	1.8X	91	4
2002	APR	17	0318	14.53	20	5.95	154	42.69	7.02	21	5	.13	1.9	1.0	KEA	1.7X	306	55
2002	APR	17	0417	45.97	19	20.92	155	11.91	7.39	31	6	.13	.8	.7	SF3	1.6X	175	4
2002	APR	17	1510	32.92	19	17.93	155	6.59	3.36	31	9	.10	1.1	1.9	SSF	1.5X	229	10
2002	APR	17	2155	37.78	19	23.04	155	29.87	8.64	27	7	.10	.4	.9	KAO	1.0X	57	4
2002	APR	18	0142	11.04	19	22.25	155	17.10	10.26	17	4	.09	.9	1.1	INT	.8X	169	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	APR	18	0335	41.77	19	10.78	155	34.58	7.54	31	9	.12	.5	1.2	LSW	1.5X	231	11
2002	APR	18	0418	44.73	19	26.64	155	27.92	9.70	4010		.11	.4	.7	KAO	2.0X	52	8
2002	APR	18	0440	31.04	19	25.48	155	19.57	3.68	16	6	.09	.4	.6	KAO	1.1X	131	3
2002	APR	18	0448	29.90	19	14.08	155	34.94	1.53	31	7	.18	.5	.8	LSW	1.5X	82	9
2002	APR	18	0522	9.24	19	23.81	155	16.60	13.10	19	4	.10	.7	.7	DEP	1.1X	152	0
2002	APR	18	0549	31.13	19	9.16	155	40.66	4.43	14	1	.14	.5	3.4	LSW	1.2X	95	9
2002	APR	18	0557	19.16	19	25.50	155	19.37	4.59	16	3	.08	.4	1.1	KAO	1.3X	67	3
2002	APR	18	0831	21.90	19	24.13	155	18.00	3.44	15	5	.05	.6	.5	SSC	1.3X	63	2
2002	APR	18	0858	58.39	19	33.96	155	21.83	8.86	4410		.15	.3	.8	MLO	2.1X	63	8
2002	APR	18	0912	20.39	19	15.16	155	26.62	1.50	18	4	.11	.6	.6	LSW	1.1X	155	11
2002	APR	18	1117	46.70	19	23.79	155	16.13	3.05	16	5	.10	.4	.4	SEC	1.2X	100	1
2002	APR	18	1518	23.64	19	19.67	155	12.60	4.82	30	8	.11	.6	2.0	SSF	.9X	202	6
2002	APR	18	1646	35.84	19	24.84	155	19.21	5.79	24	6	.11	.4	.9	KAO	1.3X	77	2
2002	APR	19	0230	48.12	19	20.67	155	4.24	5.87	32	8	.13	.8	1.0	SF5	1.3X	203	8
2002	APR	19	0354	30.36	19	25.62	155	15.47	10.93	22	5	.13	.8	.8	INT	1.0X	215	3
2002	APR	19	0447	36.79	19	24.74	155	29.96	10.87	27	7	.08	.3	.8	KAO	1.2X	90	6
2002	APR	19	0705	13.54	19	15.43	155	27.92	7.30	23	4	.13	.5	1.5	LSW	1.1X	115	11
2002	APR	19	1021	16.22	19	23.83	155	0.44	7.54	24	7	.15	1.2	.8	SF5	1.4X	204	4
2002	APR	19	1357	25.57	20	0.91	156	37.64	2.09	24	4	.09	3.9	1.6	DIS	2.1X	241	83
2002	APR	19	1512	20.00	20	1.70	156	36.46	6.82	13	2	.13	9.41	2.1	DIS -	1.6X	316	87
2002	APR	19	1741	15.36	19	24.92	155	38.82	3.22	17	3	.08	.7	.5	MLO	1.2X	192	2
2002	APR	19	1909	30.33	19	25.88	155	17.24	3.50	17	2	.13	1.0	.5	SNC	.9X	206	1
2002	APR	19	2231	16.31	19	24.58	155	16.08	13.39	17	2	.12	1.0	.4	DEPL	.8X	200	2
2002	APR	19	2240	8.08	19	41.84	156	24.68	0.34	42	6	.12	1.4	.4	DIS	2.4X	226	60
2002	APR	20	0310	4.77	18	44.36	155	15.44	8.20	14	3	.13	1.6	1.1	LOI	1.6X	288	51
2002	APR	20	0526	23.33	19	12.12	155	34.39	1.57	17	3	.11	.5	.8	LSW	1.7X	90	12
2002	APR	20	0650	17.37	19	24.42	155	17.72	3.97	16	5	.10	.5	.5	SSC	1.2X	62	2
2002	APR	20	0729	15.35	20	14.73	156	19.03	8.10	23	6	.11	1.2	2.5	KOH	2.0X	199	55
2002	APR	20	0815	32.47	19	11.94	155	42.29	4.81	24	4	.14	.6	1.7	LSW	1.5X	114	8
2002	APR	20	0838	20.23	20	0.83	156	38.00	5.36	24	4	.10	2.0	3.0	DIS	2.0X	241	84
2002	APR	20	1215	37.71	19	22.54	155	14.16	2.97	19	6	.08	.4	.3	SEC	1.5X	138	2
2002	APR	20	1529	6.90	19	24.24	155	37.41	2.67	13	3	.23	.8	.6	MLO	.7X	122	1
2002	APR	20	2006	43.39	19	14.38	155	26.06	5.05	22	5	.10	.5	1.4	LSW	1.3X	150	10
2002	APR	21	0102	41.58	19	33.32	155	37.23	8.63	28	8	.11	.5	1.2	MLO	1.5X	101	8
2002	APR	21	0206	7.66	19	10.87	155	24.62	38.67	28	6	.09	.8	1.4	DEP	1.5X	172	6
2002	APR	21	0956	17.34	19	32.19	155	55.26	10.16	16	3	.13	1.6	.9	KON	1.3X	282	17
2002	APR	21	1159	23.85	19	11.74	155	27.32	9.45	39	7	.12	.4	.5	LSW	2.1X	131	4
2002	APR	21	1425	17.29	19	13.39	155	26.72	10.73	46	9	.19	.5	.4	LSWF	3.2X	130	7
2002	APR	21	1503	19.05	19	18.77	155	13.57	5.25	24	6	.11	.7	2.0	SF2	1.4X	210	7
2002	APR	21	1810	52.46	19	24.67	155	29.29	8.79	35	8	.10	.4	.8	KAO	1.3X	41	5
2002	APR	21	1841	5.95	19	23.25	155	17.14	2.77	16	5	.08	.3	.2	SSC	1.4X	118	0
2002	APR	21	1931	54.05	19	24.95	155	38.60	3.34	28	6	.11	.4	.5	MLO	2.4X	106	2
2002	APR	21	2229	23.36	19	33.03	155	37.64	9.41	15	2	.11	.9	1.6	MLO	1.0X	174	8
2002	APR	22	0031	8.76	19	5.50	155	27.95	31.47	21	3	.09	1.0	2.1	DLS	1.7X	206	7
2002	APR	22	0126	19.87	19	43.50	156	9.20	34.86	22	5	.11	1.6	2.5	HUA	1.1U	286	33

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	APR	22	0201	54.63	19	14.87	155	25.85	9.36	25	1	.09	.4	.6	LSW	1.8X	143	7
2002	APR	22	0848	45.66	19	24.72	155	16.28	1.04	14	4	.08	.4	.3	SNC	1.5X	176	1
2002	APR	22	0930	7.08	18	55.44	155	13.29	12.09	22	4	.11	1.3	1.1	LOI	2.1X	247	36
2002	APR	22	1318	15.32	19	18.41	155	7.83	4.51	23	5	.11	1.1	6.9	SSF	1.3X	275	9
2002	APR	22	1940	58.90	20	9.59	156	20.66	6.68	26	5	.12	.9	1.5	DIS	2.0X	205	59
2002	APR	22	2042	26.42	19	18.83	155	6.41	3.66	2910		.08	.7	1.6	SSF	1.2X	226	9
2002	APR	23	0035	4.58	19	18.40	155	48.02	11.02	38	5	.11	.7	.5	KON	2.7X	188	15
2002	APR	23	1037	47.26	19	25.14	155	39.28	2.86	12	3	.05	.9	.5	MLO	1.3U	206	3
2002	APR	23	1631	56.25	19	10.26	155	41.04	0.15	18	2	.14	.5	.5	LSW	1.4X	112	9
2002	APR	23	1916	43.27	19	25.97	155	12.46	18.72	16	6	.13	1.2	.9	DEP	1.3X	149	8
2002	APR	23	2105	51.88	19	25.29	155	18.93	7.03	25	8	.11	.4	.8	INT	1.7X	70	2
2002	APR	23	2249	18.81	19	18.25	155	6.32	6.01	33	8	.13	.7	.9	SF4	1.6X	209	10
2002	APR	23	2252	0.28	19	18.46	155	6.64	0.54	28	6	.11	1.3	.5	SSF	1.3X	228	9
2002	APR	24	0041	45.57	19	21.54	155	35.24	7.93	28	5	.11	.4	1.0	MLO	2.0X	49	7
2002	APR	24	0149	9.06	19	25.33	155	15.66	13.84	19	4	.09	1.0	.5	DEP	1.5X	206	2
2002	APR	24	0401	50.23	19	23.26	155	2.55	2.68	21	2	.12	1.1	2.2	SME	1.5X	200	8
2002	APR	24	0521	20.03	19	26.68	154	51.46	45.18	3910		.11	.9	.8	LER	2.3X	236	1
2002	APR	24	0645	39.86	19	27.13	155	35.35	38.66	20	5	.13	1.4	1.9	DML	1.8X	84	2
2002	APR	24	0705	52.30	19	23.95	155	16.68	12.42	19	4	.12	.8	.6	INT	1.5X	140	0
2002	APR	24	0915	1.26	18	55.39	155	13.77	13.42	24	4	.13	1.6	1.1	LOI	2.1X	265	36
2002	APR	24	1220	20.17	19	12.86	155	41.81	3.37	26	2	.14	.6	2.6	LSW	1.9X	144	10
2002	APR	24	1220	42.16	19	10.45	155	40.60	0.62	16	3	.10	.8	.6	LSW	1.8X	163	10
2002	APR	24	1349	32.52	19	19.87	155	9.78	5.91	18	1	.11	.6	2.1	SF3	1.2U	115	6
2002	APR	24	1431	19.32	19	29.93	155	27.05	5.96	18	5	.10	.4	1.3	KAO	1.5X	107	4
2002	APR	24	1531	44.93	19	19.37	155	13.23	6.56	29	2	.11	.5	.8	SF2	1.7X	133	4
2002	APR	24	1641	29.20	19	25.33	155	37.31	38.78	19	6	.14	1.3	.9	DML	1.5X	163	4
2002	APR	24	1651	25.61	19	27.35	155	29.18	27.36	10		.15	1.6	5.0	DML	1.4U	94	8
2002	APR	24	1754	19.37	19	24.12	155	35.42	33.93	19	8	.13	1.1	1.1	DML	1.8X	131	6
2002	APR	24	1911	47.76	19	26.46	155	35.64	32.34	19	6	.11	1.1	1.2	DML	1.2X	99	2
2002	APR	24	1954	44.45	19	24.44	155	41.15	28.43	18	6	.24	1.5	2.1	DML	1.4X	236	6
2002	APR	24	2142	43.96	19	24.95	155	35.81	40.78	15	3	.11	1.5	1.8	DML	1.4U	118	4
2002	APR	24	2316	42.03	19	25.97	155	35.32	32.33	17	3	.08	1.1	1.6	DML	1.4X	109	3
2002	APR	25	0018	41.08	19	27.36	155	35.64	33.81	14	3	.10	.9	1.4	DML	1.5U	76	4
2002	APR	25	0124	18.44	19	27.57	155	35.89	37.85	16	4	.15	1.5	1.9	DML	1.4X	80	3
2002	APR	25	0245	17.23	19	26.50	155	34.93	39.61	18	4	.10	1.1	1.8	DML	1.5U	94	3
2002	APR	25	0329	4.07	19	22.54	155	49.74	10.46	15	4	.10	.8	.8	KON	.9X	220	16
2002	APR	25	0410	8.72	19	48.97	155	20.70	13.18	17	5	.13	.7	.5	KEA	1.2X	168	8
2002	APR	25	0429	5.53	19	26.80	155	35.78	37.08	17	4	.14	1.1	2.0	DML	1.4X	84	5
2002	APR	25	0756	24.62	19	27.09	155	35.86	34.67	19	4	.14	1.0	1.5	DML	1.4U	83	1
2002	APR	25	1410	59.16	19	19.98	155	9.08	7.00	30	6	.10	.4	.9	SF4	1.5X	136	5
2002	APR	25	1543	41.77	19	59.15	156	29.32	2.00	16	4	.12	2.7	1.3	DIS	1.6X	239	76
2002	APR	25	1723	48.60	19	26.68	155	35.58	38.55	15	3	.09	1.3	1.9	DML	1.4U	94	2
2002	APR	25	1731	29.81	19	55.41	155	32.98	11.17	15	2	.08	.6	.7	KEA	1.4X	145	14
2002	APR	25	1740	16.41	19	26.62	155	36.33	46.04	16	5	.12	1.7	1.3	DML	2.0X	97	1
2002	APR	25	1850	55.97	19	27.82	155	36.70	35.97	17	5	.10	1.2	1.5	DML	1.1U	91	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	APR	25	2020	57.15	19	26.47	155	36.90	39.68	17	5	.12	1.4	1.6	DML	1.6X	96	2
2002	APR	25	2103	34.21	19	25.92	155	36.23	37.77	15	4	.06	1.2	1.6	DML	1.6X	105	2
2002	APR	26	0007	20.03	19	54.99	155	21.02	19.40	18	5	.09	.6	1.2	KEA	1.5X	187	3
2002	APR	26	0021	19.87	19	27.13	155	36.84	39.25	19	5	.08	1.0	1.4	DML	1.5U	88	1
2002	APR	26	0225	29.49	19	27.51	155	35.78	41.37	13	3	.04	1.5	1.6	DML	1.7X	80	1
2002	APR	26	0257	29.64	19	36.15	155	52.74	22.40	18	3	.13	1.3	1.7	KON	1.2X	218	10
2002	APR	26	0412	47.38	19	27.12	155	35.72	35.01	18	4	.09	1.2	1.8	DML	1.9X	86	1
2002	APR	26	0633	19.72	19	26.95	155	36.47	36.62	16	3	.11	1.1	2.1	DML	1.5U	91	1
2002	APR	26	1044	24.23	19	27.27	155	35.57	39.46	17	4	.09	1.5	1.5	DML	1.7X	81	1
2002	APR	26	1241	3.41	19	13.08	155	26.15	0.13	24	2	.14	.5	.7	LSW #	1.5X	129	7
2002	APR	26	1548	47.97	19	6.45	155	5.79	47.89	18	1	.07	2.7	1.7	LOI	1.6X	318	24
2002	APR	27	0034	27.97	19	46.86	156	7.36	6.34	18	3	.14	1.5	1.0	HUA	1.5X	288	48
2002	APR	27	0326	24.68	19	59.55	155	29.66	42.34	4916	.10	.6	.9	KEA	2.2X	151	19
2002	APR	27	0724	45.97	19	24.82	155	16.97	8.67	15	2	.09	1.2	1.1	INTL	1.5X	152	0
2002	APR	27	0926	33.34	19	26.64	155	35.65	45.48	30	6	.10	1.0	1.1	DML	1.8X	71	2
2002	APR	27	1249	34.07	19	6.67	155	26.00	44.66	24	3	.10	1.2	1.6	DLS	1.9X	230	6
2002	APR	27	1649	49.19	19	22.78	155	15.33	26.71	4910	.12	.5	.7	DEP	2.5X	68	1
2002	APR	27	1710	23.48	19	23.96	155	17.62	0.30	23	6	.18	.2	.3	SSCL	1.6X	103	2
2002	APR	27	2139	44.81	19	54.20	155	18.66	9.80	22	2	.14	1.3	.5	KEA	1.7X	239	4
2002	APR	27	2254	31.02	19	22.96	155	14.86	2.87	14	4	.08	.5	.3	SEC	1.5X	140	2
2002	APR	28	0343	16.24	19	14.20	155	27.72	7.89	21	1	.14	.6	.9	LSW	1.3X	129	9
2002	APR	28	0426	53.22	19	16.46	155	37.34	4.76	16	3	.13	.5	6.2	LSW	.8X	155	10
2002	APR	28	0428	8.67	19	57.47	155	22.17	11.82	14	5	.07	.9	.4	KEA	.7X	225	8
2002	APR	28	0437	51.27	19	19.09	155	51.06	10.59	16	3	.14	1.0	.8	KON	.8X	208	20
2002	APR	28	0652	26.96	19	20.04	155	6.73	6.23	38	7	.14	.5	.9	SF4	1.7X	148	5
2002	APR	28	0805	27.07	19	19.46	155	10.30	4.08	27	3	.11	.6	3.3	SSF	1.2X	99	6
2002	APR	28	0955	16.98	19	23.89	155	34.58	43.43	15	6	.18	2.8	1.4	DML	1.5U	144	3
2002	APR	28	1950	8.92	19	46.37	155	33.85	14.50	23	6	.13	.5	.5	KEA	1.5X	89	11
2002	APR	28	2124	45.69	19	27.49	154	54.64	3.18	15	3	.14	.8	.4	SLE	1.3X	148	1
2002	APR	29	0022	27.49	19	25.20	155	19.07	6.43	18	6	.07	.5	1.0	KAO	1.1X	121	3
2002	APR	29	0100	44.84	19	21.89	155	14.29	2.77	16	6	.10	.6	.4	KOA	1.6X	182	2
2002	APR	29	0213	51.40	19	28.09	155	36.30	52.38	15	3	.09	1.7	1.5	DML	1.9X	88	2
2002	APR	29	0218	30.60	19	22.59	155	30.82	42.44	13	3	.09	1.3	1.6	DML	2.1X	120	6
2002	APR	29	1050	20.83	19	23.51	155	14.86	2.57	15	4	.05	.3	.4	SEC	1.2X	144	3
2002	APR	29	1114	48.21	19	23.36	155	15.04	2.40	18	6	.09	.3	.4	SEC	1.5X	139	2
2002	APR	29	1356	56.16	20	7.52	155	49.08	23.54	23	4	.11	1.3	.8	KOH	1.6X	136	4
2002	APR	29	2156	31.04	19	27.09	155	29.15	56.21	18	7	.15	2.3	1.1	DML	1.9X	77	8
2002	APR	29	2210	4.73	19	23.18	155	36.21	39.03	16	5	.09	1.3	1.5	DML	1.9X	142	4
2002	APR	30	0328	52.26	19	22.34	155	4.96	8.19	33	5	.12	1.0	.5	SF5	1.7X	196	5
2002	APR	30	0514	7.44	19	24.67	155	16.76	1.41	14	4	.13	.4	.2	SNC	1.2X	119	1
2002	APR	30	0648	13.75	19	22.91	155	16.56	9.65	19	4	.11	1.1	.8	INTL	1.8X	130	1
2002	APR	30	1406	24.05	19	15.18	155	33.40	9.53	26	3	.09	.4	.8	LSW	1.6X	114	6
2002	APR	30	1856	57.97	19	26.43	155	30.21	8.63	20	4	.11	.5	1.5	KAO	1.0X	95	9
2002	APR	30	1948	49.52	19	47.04	155	53.28	5.90	19	4	.14	1.1	1.9	HUA	1.3X	274	12
2002	APR	30	2345	17.27	19	26.51	155	30.49	11.39	17	3	.10	.5	.8	KAO	1.0X	91	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	1	0351	39.07	19	25.12	155	16.56	9.64	15	4	.09	.8	.5	INTL	1.7X	129	1
2002	MAY	1	0612	12.61	19	20.07	155	7.84	7.92	40	9	.12	.6	.6	SF4	2.4X	182	6
2002	MAY	1	1104	32.48	18	53.13	155	13.32	12.03	34	4	.11	1.6	1.1	LOI	2.7X	257	40
2002	MAY	1	1610	9.39	19	16.33	155	27.65	11.08	25	4	.11	.4	.9	LSW	1.3X	62	5
2002	MAY	1	1838	51.62	19	22.07	155	49.00	13.31	27	6	.13	1.0	.5	KON	1.9X	212	16
2002	MAY	1	1856	29.22	19	13.15	155	14.86	42.26	19	4	.09	1.4	1.4	DEP	1.2X	269	17
2002	MAY	2	0117	52.57	19	23.52	155	33.98	48.97	15	3	.13	1.7	1.6	DML	1.4U	142	3
2002	MAY	2	0310	2.09	19	25.55	155	16.30	11.15	15	4	.08	.9	1.1	INTL	2.0X	182	2
2002	MAY	2	0617	22.26	19	18.85	155	13.70	7.51	33	4	.11	.5	.6	SF2	1.3X	87	3
2002	MAY	2	0726	17.27	19	49.40	155	36.70	14.80	23	5	.11	.5	.5	KEA	1.8X	102	6
2002	MAY	2	0859	56.05	19	19.43	155	7.22	7.85	28	3	.11	.6	.7	SF4	1.6X	145	4
2002	MAY	2	1015	12.45	19	20.89	155	17.24	25.68	27	6	.10	.9	1.1	DEP	1.4X	54	1
2002	MAY	2	1204	13.21	20	6.74	155	26.27	0.05	14	3	.11	2.2	.6	KEA #	1.4X	296	27
2002	MAY	2	1408	46.67	19	21.22	155	30.05	9.33	31	7	.07	.4	.9	KAO	1.4X	51	5
2002	MAY	2	1443	23.40	19	40.39	155	31.29	31.03	21	3	.09	1.0	1.3	KEA	1.5X	162	8
2002	MAY	2	1709	17.45	19	26.83	155	22.41	10.18	31	7	.11	.4	.9	KAO	1.3X	122	6
2002	MAY	2	1815	8.95	19	25.69	155	15.88	6.61	21	5	.13	1.1	.5	INTL	1.5X	200	2
2002	MAY	2	1920	53.49	19	26.06	155	28.21	9.07	28	8	.12	.4	1.1	KAO	1.2X	77	7
2002	MAY	2	2233	41.98	19	28.68	155	28.06	5.04	28	9	.11	.3	2.4	KAO	1.4X	70	6
2002	MAY	2	2329	3.48	19	19.05	155	11.58	6.50	33	4	.11	.6	.7	SF3	1.5X	198	7
2002	MAY	3	0555	58.37	19	21.22	155	9.90	3.61	19	5	.10	1.0	1.4	SER	1.1X	221	5
2002	MAY	3	0614	37.38	19	19.13	155	24.64	9.91	19	3	.08	.5	.7	SWR	.9X	132	3
2002	MAY	3	0815	47.94	19	22.82	155	14.66	2.79	17	5	.07	.4	.4	SEC	1.5X	118	2
2002	MAY	3	0818	9.11	19	19.09	155	13.13	5.52	37	7	.11	.4	.7	SF2	1.5X	80	4
2002	MAY	3	1021	24.09	19	24.54	155	16.79	1.46	17	4	.12	.4	.2	SSC	1.4X	97	1
2002	MAY	3	1040	53.12	19	20.85	155	17.56	19.09	33	6	.11	.6	.9	DEP	1.3X	35	1
2002	MAY	3	1303	3.90	19	16.22	155	28.81	10.14	35	8	.14	.3	.7	LSW	1.7X	60	3
2002	MAY	3	1336	13.29	19	18.61	155	18.74	30.96	19	6	.08	1.2	.9	DEP	1.7X	64	1
2002	MAY	3	1359	19.00	19	17.62	155	28.12	10.98	22	5	.09	.5	1.0	LSW	.9X	48	6
2002	MAY	3	1831	31.59	19	23.31	155	14.78	3.10	15	5	.07	.4	.4	SEC	1.6X	141	3
2002	MAY	3	1943	12.17	19	23.40	155	14.85	2.66	15	5	.06	.4	.5	SEC	1.3X	111	3
2002	MAY	3	2320	10.08	19	11.74	155	30.16	33.56	4113	.09	.5	.9	DLS	1.8X	81	6
2002	MAY	4	0107	1.77	19	57.21	155	18.76	35.72	33	9	.11	.8	1.4	KEA	1.9X	201	8
2002	MAY	4	0752	50.44	19	27.43	155	35.33	48.74	17	3	.12	1.8	2.0	DML	1.2U	79	1
2002	MAY	4	1021	4.55	19	6.83	155	28.27	29.57	4410	.09	.5	1.0	DLS	2.2X	179	5
2002	MAY	4	1031	44.63	19	24.80	155	16.42	15.18	22	3	.09	.9	.4	DEP	1.0X	128	5
2002	MAY	4	1725	24.86	19	21.28	155	29.87	8.87	4810	.08	.3	.5	KAO	2.1X	39	5
2002	MAY	4	1837	18.85	19	18.52	155	13.83	8.88	36	8	.10	.6	.5	SF2	1.6X	171	8
2002	MAY	4	1914	47.94	19	23.10	155	14.11	3.51	22	6	.12	.6	.5	SEC	1.8X	132	2
2002	MAY	4	2018	14.28	19	23.30	155	14.29	3.28	28	6	.11	.4	.4	SEC	2.0X	115	2
2002	MAY	4	2140	21.06	19	25.64	155	17.03	8.54	23	6	.12	.6	.6	INTL	1.5X	77	1
2002	MAY	4	2223	41.53	19	21.41	155	16.10	26.72	33	7	.12	.8	.9	DEP	1.6X	139	2
2002	MAY	5	0059	37.70	19	22.82	154	54.09	9.40	13	3	.13	1.6	.6	LER	.9X	278	9
2002	MAY	5	0550	8.52	19	13.52	155	25.16	4.15	19	3	.12	.6	3.1	LSW	1.2X	169	9
2002	MAY	5	0820	36.27	20	3.28	155	20.64	6.00	14	4	.20	1.5	1.4	KEA	1.5U	252	18

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	5	0840	4.99	19	2.89	155	28.53	45.80	22	2	.08	1.7	2.1	DLST		299	12
2002	MAY	5	0959	11.68	19	23.11	155	30.29	9.83	17	2	.07	.5	1.1	KAO	1.3X	113	5
2002	MAY	5	1313	32.25	19	23.37	155	14.97	3.33	16	6	.09	.4	.3	SEC	1.4X	163	2
2002	MAY	5	1614	38.11	19	12.71	155	35.25	2.02	4010		.14	.4	.6	LSW	1.9X	119	10
2002	MAY	5	2326	1.64	19	23.21	155	15.24	3.31	15	6	.08	.5	.3	SEC	1.4X	133	2
2002	MAY	6	0148	14.14	19	24.72	155	18.92	5.48	25	7	.09	.4	.8	INT	1.8X	87	2
2002	MAY	6	0233	25.02	19	18.89	155	11.57	4.57	26	4	.11	.8	2.5	SSF	1.3X	237	7
2002	MAY	6	0519	49.18	20	25.18	156	27.46	16.31	13	1	.16	2.7	12.9	DIS	1.9U	227	28
2002	MAY	6	0757	54.76	19	19.21	155	8.63	7.16	35	7	.08	.4	.7	SF4	1.8X	103	4
2002	MAY	6	1404	0.07	19	6.58	155	28.19	29.84	39	9	.08	.6	1.2	DLS	1.9X	180	5
2002	MAY	6	1520	32.44	19	24.07	155	17.12	3.32	12	2	.09	.7	.3	SSCL	1.6X	102	1
2002	MAY	6	2245	51.74	20	10.27	155	23.22	0.43	4511		.12	.8	.3	KEAF	3.2X	201	41
2002	MAY	7	0336	47.66	19	18.63	155	45.55	12.05	21	3	.11	.6	.6	KON	1.3X	166	11
2002	MAY	7	1039	0.58	20	9.68	155	27.26	9.95	17	4	.10	1.4	1.3	KEA	1.5X	267	34
2002	MAY	7	1113	0.23	19	25.59	155	16.32	3.56	20	6	.12	.5	.4	SNCL	1.1X	142	2
2002	MAY	7	1242	37.60	19	21.70	155	4.88	1.36	4911		.12	.4	.4	SSFF	2.5X	148	10
2002	MAY	7	1426	41.61	19	23.85	155	14.72	3.23	16	5	.11	.4	.7	SEC	1.4X	153	3
2002	MAY	7	1949	6.79	19	25.34	155	30.65	11.72	30	9	.10	.4	.6	KAO	1.6X	88	7
2002	MAY	8	0235	29.60	19	16.70	155	25.93	50.32	39	9	.10	.7	1.1	DLS	2.1X	124	8
2002	MAY	8	0619	44.57	19	24.66	155	17.13	8.17	19	6	.15	.7	.7	INTL	1.9X	91	0
2002	MAY	8	0634	40.40	19	25.14	155	16.00	12.40	18	6	.12	1.0	.9	INTL	1.8X	191	2
2002	MAY	8	0859	16.72	19	31.99	155	47.61	7.80	22	4	.17	1.4	.7	KON	1.3X	291	4
2002	MAY	8	1006	22.08	19	32.56	155	48.79	0.02	16	3	.21	1.5	.6	KON #	.9X	208	6
2002	MAY	8	2047	6.09	19	19.11	156	19.88	6.62	23	7	.14	8.1	10.2	KON -	1.4X	313	63
2002	MAY	9	0258	20.69	19	34.74	155	40.94	8.50	27	5	.10	.3	1.5	MLO	1.7X	78	12
2002	MAY	9	0321	49.58	19	48.96	156	8.87	12.55	20	4	.09	1.3	1.4	HUA	1.0X	309	35
2002	MAY	9	0331	41.14	19	24.56	155	16.79	11.84	18	5	.12	.8	1.0	INTL	1.5X	157	1
2002	MAY	9	0354	17.62	19	19.55	155	13.47	9.81	42	7	.12	.5	.3	SF2	2.4X	162	6
2002	MAY	9	0537	21.87	19	29.23	155	28.16	7.60	31	9	.10	.3	.9	KAO	1.4X	73	5
2002	MAY	9	0628	36.83	19	31.73	155	42.07	8.33	27	5	.14	.5	1.3	MLO	1.5X	82	7
2002	MAY	9	1231	46.19	19	23.83	155	13.77	2.50	16	5	.12	.4	.9	SER	1.5X	129	5
2002	MAY	9	2008	54.95	19	19.28	155	24.99	9.38	30	7	.10	.5	.8	SWR	1.3X	126	3
2002	MAY	9	2027	10.08	19	10.92	155	39.53	0.01	34	9	.18	.4	.3	LSW #	1.6X	87	12
2002	MAY	9	2140	31.22	19	24.10	155	17.07	2.80	14	5	.07	.4	.2	SSC	1.1X	91	1
2002	MAY	9	2235	25.63	19	32.59	155	14.57	23.61	30	8	.11	.6	1.1	DEP	1.4X	120	10
2002	MAY	10	0219	2.66	19	25.29	155	17.54	4.35	24	7	.14	.7	.6	SNCL	1.5X	156	0
2002	MAY	10	1558	9.96	19	25.64	155	16.32	16.20	17	3	.12	1.5	.7	DEPL	1.7X	143	2
2002	MAY	10	1922	14.71	19	26.73	156	8.76	38.54	29	6	.10	1.1	1.8	KON	1.8X	222	41
2002	MAY	10	1959	27.26	19	18.52	155	15.20	8.59	27	6	.09	.7	.6	SF1	1.3X	205	6
2002	MAY	10	2107	51.75	18	51.76	155	14.40	7.21	20	4	.12	1.3	.9	LOI	1.7X	277	55
2002	MAY	11	0000	44.93	19	23.24	155	14.80	3.27	15	5	.06	.5	.3	SEC	1.4X	122	2
2002	MAY	11	0227	45.03	19	25.38	155	25.99	4.04	28	7	.12	.3	1.7	KAO	1.1X	56	6
2002	MAY	11	0330	3.37	19	17.45	155	23.16	3.03	15	3	.11	.9	.7	SWR	.8X	230	5
2002	MAY	11	0557	31.98	19	55.76	155	23.82	21.26	26	7	.13	.9	1.3	KEA	1.4X	232	7
2002	MAY	11	0620	57.92	19	28.76	155	27.46	8.30	32	8	.12	.3	1.0	KAO	1.5X	61	6
2002	MAY	11	0812	19.56	19	54.76	155	24.59	18.45	20	5	.12	1.1	1.4	KEA	1.3X	211	7
2002	MAY	11	0944	17.72	19	24.24	155	17.08	7.80	18	4	.11	.6	.7	INTL	1.3X	107	2
2002	MAY	11	0947	13.90	19	22.05	155	10.92	2.46	15	5	.10	.4	.4	SER	1.1X	129	4
2002	MAY	11	1621	26.73	19	1.52	155	26.15	39.13	37	8	.08	.9	1.3	DLS	1.7X	222	15
2002	MAY	11	1637	16.05	19	17.45	155	23.17	5.85	17	3	.10	.4	1.9	SWR	1.1X	103	5
2002	MAY	11	1936	27.86	19	30.16	155	19.57	12.85	26	7	.11	.7	.8	MLO	1.3X	133	7
2002	MAY	11	2111	12.06	19	22.64	155	10.66	3.10	28	6	.12	.9	.5	SER	1.5X	183	4
2002	MAY	11	2232	26.94	18	55.93	155	29.25	35.97	28	9	.09	1.1	1.3	DLS	1.9X	267	20
2002	MAY	12	0130	49.66	18	57.21	155	34.63	43.52	4212		.08	.8	1.0	DLS	2.4X	239	10
2002	MAY	12	0228	53.54	19	18.92	155	11.35	2.72	26	5	.13	.6	1.2	SSF	1.4X	216	7
2002	MAY	12	0445	25.98	19	20.24	155	11.33	7.53	28	8	.13	.8	.6	SF3	1.3X	222	5
2002	MAY	12	0516	41.42	19	14.03	155	19.62	4.34	31	7	.11	.6	2.0	SWR	1.7X	190	7
2002	MAY	12	0914	39.21	19	25.84	155	17.17	4.75	19	3	.14	.7	.7	SNCL	1.5X	147	1
2002	MAY	12	0916	30.27	19	24.85	155	17.74	1.14	16		.19	.4	.4	SNCL	1.2X	67	1
2002	MAY	12	1241	19.60	19	27.73	154	53.52	7.45	37	7	.13	.8	.4	LER	1.7X	135	3
2002	MAY	12	1556	15.81	19	24.02	155	17.20	2.85	12	4	.09	.6	.3	SSC	1.0X	89	1
2002	MAY	12	1747	30.81	19	26.56	155	26.49	5.10	30	7	.13	.3	3.1	KAO	1.5X	54	8
2002	MAY	12	2033	46.73	19	22.54	155	14.68	3.04	15	6	.07	.6	.4	SEC	1.4X	169	2
2002	MAY	13	0040	37.78	19	22.24	155	13.26	7.68	12	5	.06	1.5	.9	SF2	1.6X	196	1
2002	MAY	13	0103	6.24	19	20.88	155	11.84	6.81	24	4	.12	1.1	.7	SF3	1.5X	200	4
2002	MAY	13	0226	8.91	19	26.95	154	55.43	6.27	24	3	.12	1.0	.6	LER	1.7U	157	1
2002	MAY	13	0817	49.77	19	31.95	155	54.77	8.32	30	5	.22	1.1	.7	KON	1.5X	225	16
2002	MAY	13	1230	47.86	19	19.31	155	12.99	4.03	36	7	.13	.3	1.2	SSF	1.8X	80	4
2002	MAY	13	1733	11.26	19	12.78	155	20.06	48.80	3710		.11	.8	.9	DEP	2.3X	176	15
2002	MAY	13	1931	23.51	19	54.55	155	23.54	10.69	13	2	.13	1.4	.6	KEA	1.1X	229	6
2002	MAY	13	1955	52.70	19	21.78	155	25.93	11.27	27	6	.11	.6	.9	KAO	1.5X	115	3
2002	MAY	14	0504	21.21	19	35.67	155	44.50	6.02	23	4	.11	.6	3.4	KON	1.3X	121	10
2002	MAY	14	0926	6.95	19	25.61	155	16.48	4.53	12	1	.12	1.1	.8	SNCL	1.5X	175	2
2002	MAY	14	1104	31.96	19	17.89	155	30.03	9.20	38	9	.11	.3	.9	LSW	1.8X	109	5
2002	MAY	14	1409	46.99	19	24.76	155	16.38	6.82	24	5	.15	.8	.4	INTL	1.4X	129	1
2002	MAY	14	1436	4.41	19	13.35	155	29.74	8.49	20	3	.09	.5	1.1	LSW	1.8X	155	3
2002	MAY	15	0113	2.39	19	26.56	155	28.82	9.79	3310		.10	.3	.8	KAO	1.4X	81	8
2002	MAY	15	0523	0.93	19	23.45	155	16.00	12.26	15	1	.14	1.5	.7	INTL	2.2X	96	1
2002	MAY	15	0746	30.31	19	24.40	155	17.06	2.17	21	4	.13	.5	.2	SSCL	1.4X	109	1
2002	MAY	15	0759	38.11	19	28.60	155	27.62	6.98	27	5	.11	.3	1.3	KAO	1.4X	58	6
2002	MAY	15	1130	58.43	19	27.54	155	16.36	27.21	4111		.11	.7	.8	DEP	1.7X	106	1
2002	MAY	15	1258	4.37	19	23.53	155	16.75	3.46	18	4	.11	.5	.3	SSC	1.5X	70	0
2002	MAY	15	1447	30.06	19	25.34	155	16.60	7.08	19	4	.14	.7	.7	INTL	1.7X	130	1
2002	MAY	15	1515	36.02	19	24.07	155	17.69	5.21	15	1	.14	.8	1.3	INTL	1.2X	62	2
2002	MAY	15	1651	9.41	19	19.80	155	30.35	7.59	37	8	.11	.3	.7	KAO	1.8X	58	7
2002	MAY	15	1917	47.22	19	25.61	155	15.41	1.21	13	3	.11	.3	.8	SNC	1.4X	172	3
2002	MAY	15	2341	49.36	19	24.78	155	15.95	10.42	15	3	.10	1.0	.7	INTL	2.3X	140	2
2002	MAY	15	2346	3.77	19	24.83	155	16.14	2.50	24	7	.13	.4	.2	SNCL	1.8X	108	2
2002	MAY	15	2359	38.82	19	25.80	155	17.38	5.83	24	4	.18	.5	.9	INTL	2.2X	50	1
2002	MAY	16	0108	42.44	19	25.47	155	16.49	8.72	15	1	.13	1.5	1.5	INTL	1.6X	173	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	16	0113	58.36	19	24.99	155	29.44	10.50	28	8	.09	.3	.6	KAO	1.5X	80	6
2002	MAY	16	0142	14.09	19	25.53	155	16.81	9.33	26	5	.15	.5	.7	INTL	2.5X	51	1
2002	MAY	16	0147	49.90	19	24.08	155	17.88	9.99	23	7	.12	.5	.6	INTL	2.1X	102	2
2002	MAY	16	0333	38.98	19	24.89	155	50.20	13.48	15	1	.14	1.3	.5	KON	1.7X	215	13
2002	MAY	16	0626	38.43	20	4.31	155	18.08	12.28	27	5	.13	1.3	.6	KEA	1.9X	264	10
2002	MAY	16	1122	11.89	19	17.74	155	20.82	6.94	32	7	.14	.5	.9	SWR	1.5X	125	4
2002	MAY	16	1248	22.67	19	19.64	155	11.32	7.37	38	7	.10	.5	.7	SF3	1.7X	93	6
2002	MAY	16	1258	28.52	19	24.86	155	16.03	2.42	28	4	.13	.5	.3	SNCL	2.2X	112	2
2002	MAY	16	1310	20.50	19	25.02	155	14.55	2.01	23	4	.10	.4	.6	SNCL	2.2X	200	4
2002	MAY	16	1334	41.20	19	32.64	155	43.41	6.91	14	3	.11	.6	2.1	KON	1.3U	111	6
2002	MAY	16	1430	20.83	19	17.77	155	23.23	2.68	17	3	.11	.3	.7	SWR	1.4U	106	4
2002	MAY	16	1448	11.58	19	23.98	155	26.64	9.22	41	8	.12	.4	.8	KAO	1.8X	46	3
2002	MAY	16	2301	46.88	19	11.35	155	35.69	7.11	17	3	.12	.8	1.0	LSW	1.7X	233	14
2002	MAY	17	0334	4.04	19	22.67	155	27.19	8.97	42	9	.13	.4	.6	KAO	2.0X	60	1
2002	MAY	17	0342	28.40	19	25.52	155	18.49	10.03	12	2	.17	1.2	1.8	INTL	2.2X	90	2
2002	MAY	17	0706	57.86	19	26.15	154	59.41	2.53	16	1	.22	1.2	1.4	SLE	1.5X	99	2
2002	MAY	17	0905	3.92	19	24.73	155	17.54	3.27	24	2	.19	.5	.5	SNCL	2.2X	45	1
2002	MAY	17	1034	1.06	19	18.89	155	12.98	4.07	25		.13	.4	1.5	SSF	1.4X	87	4
2002	MAY	17	1126	15.51	19	24.25	155	17.01	1.36	15	5	.11	.4	.2	SSC	1.4X	113	1
2002	MAY	17	1430	27.91	19	23.86	155	17.20	8.28	25	7	.11	.5	.6	INTL	2.0X	75	1
2002	MAY	17	1707	58.77	19	25.81	155	16.37	1.66	25	5	.06	.3	.3	SNC	2.2X	143	2
2002	MAY	17	1856	35.90	19	25.83	155	16.34	1.56	15	4	.08	.3	.4	SNC	1.8X	145	2
2002	MAY	17	2003	35.13	19	15.50	155	29.19	5.46	25	3	.13	.5	3.0	LSW	1.2X	81	9
2002	MAY	17	2332	9.10	19	25.03	155	16.94	11.00	18	5	.11	.7	.9	INTL	2.4X	118	0
2002	MAY	18	0315	7.04	19	19.22	155	13.59	4.92	28	2	.14	.5	1.5	SSF	1.5X	67	4
2002	MAY	18	0348	47.96	19	19.32	154	59.40	39.24	38	5	.10	1.3	1.0	LER	2.1X	245	11
2002	MAY	18	0418	12.45	19	28.64	155	25.19	6.68	27	4	.13	.4	1.2	KAO	1.6X	47	4
2002	MAY	18	0438	47.44	20	5.86	155	56.00	14.92	23		.11	1.0	1.3	KOH	2.3X	157	16
2002	MAY	18	0744	28.85	19	24.30	155	17.39	10.93	28	6	.15	.6	.6	INTL	2.3X	73	1
2002	MAY	18	1928	30.72	19	15.55	155	26.36	8.68	31	6	.13	.4	.9	LSW	1.2X	76	5
2002	MAY	18	1932	25.39	19	25.42	155	16.78	6.66	23	5	.11	.4	.4	INTL	2.3X	88	1
2002	MAY	19	0220	6.27	19	24.95	155	16.99	6.99	27	6	.13	.5	.5	INTL	2.0X	116	0
2002	MAY	19	0322	53.65	19	12.43	155	27.32	3.21	28	7	.15	.4	1.4	LSW	1.5X	135	5
2002	MAY	19	0615	35.42	19	23.21	155	16.99	2.87	40	8	.10	.3	.2	SSC	2.3X	46	0
2002	MAY	19	0924	11.33	19	25.21	155	16.06	15.34	27	6	.12	.8	.3	DEPL	2.6X	94	2
2002	MAY	19	0956	29.02	19	20.71	155	12.93	8.08	31	4	.10	.5	.4	SF2	1.7X	66	4
2002	MAY	19	1328	28.33	19	27.71	155	27.91	8.53	16	5	.08	.5	1.7	KAO	1.6X	112	8
2002	MAY	19	1559	10.08	19	17.29	155	18.61	11.93	451	1	.12	.4	.5	SWR	1.8X	135	1
2002	MAY	19	1758	4.85	19	8.71	155	6.01	45.94	18	5	.09	1.9	1.9	LOI	1.6X	322	28
2002	MAY	19	1857	5.13	19	25.44	155	17.49	3.70	30	4	.13	.3	.4	SNCL	2.0X	49	0
2002	MAY	19	1902	36.56	19	37.98	155	15.55	8.47	29	6	.13	.4	1.0	KEA	1.6X	89	19
2002	MAY	20	0023	30.26	19	37.89	155	15.83	8.39	24	3	.16	.8	1.2	KEA	1.5X	144	20
2002	MAY	20	0204	4.50	19	24.78	155	17.07	10.27	25	5	.12	.6	.6	INTL	2.1X	61	0
2002	MAY	20	0602	21.68	19	13.58	155	33.88	0.02	31	6	.16	.5	.3	LSW #	2.1X	77	13
2002	MAY	20	1044	37.74	19	24.91	155	16.92	7.49	26	6	.12	.8	.5	INTL	2.2X	173	0

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	20	1153	35.36	19	22.23	155	29.03	9.75	32	6	.08	.4	.8	KAO	1.5X	43	3
2002	MAY	20	1204	41.97	19	27.01	155	24.74	2.08	18	4	.11	.4	1.1	KAO	1.4X	65	6
2002	MAY	20	1417	21.10	19	24.25	155	16.38	7.93	15	3	.10	.9	.6	INTL	1.8X	121	2
2002	MAY	20	1503	30.42	19	17.82	155	23.06	3.07	20	3	.09	.4	.9	SWR	.9X	100	4
2002	MAY	20	1929	40.51	19	24.69	155	17.09	10.12	26	6	.09	.4	.3	INTL	2.3X	59	0
2002	MAY	20	2310	47.24	19	25.15	155	16.60	2.84	20	5	.13	.7	.2	SNCL	1.4X	167	1
2002	MAY	21	0037	9.07	18	54.81	155	17.64	19.93	21	3	.10	1.8	5.0	LOI	1.5X	284	33
2002	MAY	21	0105	4.79	19	20.27	155	10.66	7.34	37	8	.11	.4	.7	SF3	1.5X	82	6
2002	MAY	21	0430	34.48	19	25.33	155	17.21	9.18	22	6	.14	.5	.6	INTL	2.3X	114	1
2002	MAY	21	0539	10.32	18	54.29	155	16.25	16.67	29	6	.12	1.6	14.7	LOI -	1.9X	282	35
2002	MAY	21	0712	47.72	19	19.50	155	23.73	8.62	18	3	.07	.4	.9	SWR	1.2U	77	1
2002	MAY	21	0807	41.80	19	24.67	155	16.37	7.22	16	3	.11	.8	.8	INTL	1.7X	128	1
2002	MAY	21	0817	33.46	19	10.37	155	32.97	8.06	21	5	.15	.8	1.3	LSW	1.6X	229	9
2002	MAY	21	0827	36.42	19	17.46	155	26.27	3.00	18	4	.10	.3	1.3	LSW	1.1X	59	7
2002	MAY	21	0948	50.21	19	18.42	155	12.86	3.56	22	2	.12	.5	1.1	SSF	1.2X	101	3
2002	MAY	21	1058	33.60	18	56.86	155	17.19	21.27	16	4	.13	2.0	4.9	LOI	1.4X	310	30
2002	MAY	21	1223	28.74	19	24.32	155	17.08	5.85	30	6	.13	.4	.6	INTL	2.0X	57	1
2002	MAY	21	1500	57.42	19	43.41	155	42.76	14.20	31	3	.11	.6	.5	KEA	1.8X	98	14
2002	MAY	21	1702	4.33	19	25.31	155	16.53	7.85	19	3	.12	.6	.9	INTL	1.8X	132	1
2002	MAY	21	2140	54.76	19	20.42	155	7.49	5.50	20	1	.12	.6	1.6	SF4	1.1X	124	5
2002	MAY	21	2153	36.52	19	25.15	155	16.41	9.75	19	4	.14	1.0	1.0	INTL	2.1X	175	1
2002	MAY	22	0123	52.65	19	32.27	155	52.57	12.89	19	6	.14	1.3	.6	KON	1.1X	307	12
2002	MAY	22	0125	47.82	19	6.65	155	28.34	28.78	27	7	.09	.8	1.4	DLS	1.8X	199	5
2002	MAY	22	0144	38.47	19	21.06	155	18.22	13.43	4413		.12	.5	.3	DEP	2.0X	111	5
2002	MAY	22	0221	49.24	19	11.99	155	27.05	6.17	22		.14	.6	1.4	LSW	1.4X	153	5
2002	MAY	22	0251	19.86	19	28.09	155	27.90	7.47	17	3	.09	.4	1.3	KAO	1.1X	72	7
2002	MAY	22	0312	52.73	19	23.57	156	17.01	17.07	23	6	.15	1.7	17.2	KON -	1.9X	263	56
2002	MAY	22	0356	17.05	19	28.34	155	36.94	14.00	12	1	.09	1.0	1.8	DML		180	2
2002	MAY	22	0505	31.53	19	24.64	155	17.54	5.08	16	3	.16	.6	.9	INTL	2.2X	76	1
2002	MAY	22	1108	4.08	19	20.14	155	13.23	5.91	24	2	.11	.5	1.0	SF2	1.2X	66	5
2002	MAY	22	1130	58.05	19	24.75	155	15.93	9.96	24	5	.14	.7	.7	INTL	2.3X	142	2
2002	MAY	22	1554	24.53	19	28.35	155	32.17	22.14	34	8	.10	.4	.8	DML	1.9X	41	5
2002	MAY	22	1600	47.85	19	28.50	155	27.34	4.33	31	6	.12	.3	3.1	KAO	1.7X	76	6
2002	MAY	22	1736	37.68	19	19.92	155	8.00	7.57	36	7	.11	.4	.7	SF4	2.0X	119	5
2002	MAY	22	1958	8.63	18	52.07	155	18.15	47.37	17	4	.09	2.4	3.0	LOI	1.3X	323	47
2002	MAY	22	2215	49.57	19	24.61	155	17.39	2.99	23	6	.12	.4	.2	SNCL	1.9X	72	1
2002	MAY	23	0150	18.51	19	24.97	155	16.42	7.59	20	3	.11	.6	.8	INTL	1.8X	131	1
2002	MAY	23	0313	59.81	19	12.39	155	32.96	7.64	21	2	.13	.5	1.1	LSW	1.7X	87	10
2002	MAY	23	0638	2.07	19	18.78	155	13.06	6.25	24	1	.15	1.3	1.8	SF2	1.3X	173	7
2002	MAY	23	0758	1.17	19	24.55	155	16.23	7.06	18	4	.10	.9	.8	INTL	1.9X	178	1
2002	MAY	23	1323	19.02	19	24.70	155	16.62	9.06	25	7	.13	.5	.5	INTL	2.1X	100	1
2002	MAY	23	1424	45.41	19	18.30	155	13.24	6.54	29	2	.12	.5	.8	SF2	1.4X	90	2
2002	MAY	23	1619	26.09	19	19.17	155	9.80	7.46	33	6	.09	.4	.8	SF3	1.4X	110	5
2002	MAY	23	2311	1.85	19	19.69	155	25.38	8.85	23	4	.11	.6	1.0	KAO	.8X	173	4
2002	MAY	24	0058	53.58	19	23.12	155	14.97	3.18	17	5	.08	.4	.3	SEC	1.7X	126	2

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	24	0059	21.62	19	23.25	155	14.92	2.78	16	5	.08	.5	.5	SEC	1.6X	118	2
2002	MAY	24	0100	9.53	19	23.11	155	14.82	3.20	17	6	.09	.5	.5	SEC	1.7X	130	2
2002	MAY	24	0220	43.78	19	23.32	155	14.86	2.92	19	5	.09	.3	.4	SEC	1.4X	116	2
2002	MAY	24	0413	18.90	19	19.15	155	26.32	10.34	3910		.12	.4	.7	KAO	1.5X	115	6
2002	MAY	24	1033	46.68	19	16.69	155	34.22	9.13	21	1	.10	.4	1.3	LSW	1.1X	74	8
2002	MAY	24	1125	42.74	19	50.56	155	15.41	10.97	15	5	.13	1.2	.9	KEA	1.4X	234	10
2002	MAY	24	1142	27.02	19	24.84	155	17.64	7.78	22	3	.15	.6	.9	INTL	2.2X	46	1
2002	MAY	24	1223	43.67	19	24.10	155	15.78	9.31	16	4	.11	1.8	1.0	INTL	1.6X	235	1
2002	MAY	24	1247	42.47	19	56.59	155	24.39	8.32	25	5	.16	1.0	.6	KEA	1.8X	193	9
2002	MAY	24	1300	24.51	19	23.17	155	57.96	41.35	17	4	.09	1.3	1.5	KON	1.7U	273	25
2002	MAY	24	1544	40.22	19	24.97	155	16.19	8.67	20	4	.10	.7	.8	INTL	1.8X	108	1
2002	MAY	24	1639	35.81	19	26.28	155	30.56	11.80	24	4	.10	.4	1.1	KAO	1.3X	87	5
2002	MAY	24	1857	8.38	19	26.35	155	27.96	10.31	31	5	.11	.4	1.1	KAO	1.4X	50	7
2002	MAY	25	0453	4.55	19	10.69	155	16.77	45.42	33	9	.08	.8	1.1	DEP	2.0X	187	20
2002	MAY	25	0641	17.03	19	11.98	155	37.05	0.22	35	7	.18	.4	.5	LSW	2.0X	87	16
2002	MAY	25	1459	47.72	19	25.65	155	16.68	11.24	21	4	.14	.8	.9	INTL	2.1X	113	2
2002	MAY	25	2004	48.65	19	26.31	154	52.03	10.28	23	3	.10	1.0	.3	LER	1.7X	218	2
2002	MAY	26	0052	57.01	19	23.85	155	17.75	11.55	13	4	.09	.8	1.3	INTL	2.0X	107	2
2002	MAY	26	0328	7.23	20	1.39	155	37.30	10.54	15	2	.20	1.1	.9	KOH	1.1X	170	19
2002	MAY	26	0624	13.04	19	24.93	155	16.37	1.46	12	2	.11	.3	.3	SNC	1.8X	102	1
2002	MAY	26	0819	47.86	19	26.02	155	15.67	1.56	16	4	.08	.3	.5	SNC	1.3X	164	3
2002	MAY	26	0821	15.90	19	20.32	155	11.42	6.72	23	3	.12	.9	1.1	SF3	1.7X	161	5
2002	MAY	26	1201	39.16	19	22.75	155	17.21	2.25	29	6	.11	.3	.3	SSC	1.9X	79	1
2002	MAY	26	1711	16.26	19	46.73	155	3.49	43.78	31	8	.11	.8	1.3	HIL	1.7X	205	9
2002	MAY	26	1901	9.00	19	23.19	155	14.97	3.24	16	4	.05	.4	.4	SEC	1.8X	107	2
2002	MAY	26	2137	5.81	19	22.29	155	30.14	9.08	24	3	.08	.4	.9	KAO	1.4X	122	4
2002	MAY	26	2326	28.32	19	27.31	155	53.15	6.87	33	6	.17	.9	.7	KON	2.0X	211	14
2002	MAY	27	0003	44.66	20	1.02	155	9.47	42.86	8	3	.07	3.0	1.6	KEA	1.8U	329	24
2002	MAY	27	0007	24.68	19	18.52	155	7.74	5.79	22	3	.10	.9	.8	SF4	1.5X	224	9
2002	MAY	27	0137	37.02	19	22.44	155	29.86	9.15	3810		.10	.3	.7	KAO	1.2X	62	4
2002	MAY	27	0217	15.17	19	31.92	155	52.49	8.11	16	4	.22	1.7	2.9	KON	1.1X	241	12
2002	MAY	27	0232	57.37	19	25.66	155	15.46	14.52	16	4	.11	1.7	.4	DEP	1.0X	238	4
2002	MAY	27	0420	53.48	19	24.67	155	37.70	11.10	31	8	.14	.4	.8	MLO	1.4X	93	1
2002	MAY	27	0456	54.44	19	24.89	155	16.48	1.96	23	6	.10	.3	.2	SNCL	1.6X	98	1
2002	MAY	27	0501	35.82	19	25.09	155	37.57	12.08	31	8	.13	.4	.6	MLO	1.5X	92	1
2002	MAY	27	0750	59.98	19	23.76	155	15.98	15.34	16	4	.17	1.3	.8	DEP	.8X	117	3
2002	MAY	27	1452	18.79	19	8.43	155	33.61	36.84	29	7	.11	.9	1.4	DLS	1.6X	196	10
2002	MAY	27	1947	38.58	19	24.98	155	16.23	7.01	26	5	.18	.6	.7	INTL	1.9X	107	1
2002	MAY	27	2010	57.06	19	22.94	155	14.63	3.05	15	4	.06	.4	.4	SEC	1.7X	116	2
2002	MAY	27	2239	56.40	19	37.70	156	4.81	42.80	22	5	.11	1.3	1.7	KON	1.3X	272	26
2002	MAY	27	2331	5.16	19	29.43	155	26.72	11.02	26	8	.12	.4	.8	KAO	1.2X	85	5
2002	MAY	28	0004	18.60	19	12.81	155	27.09	0.66	29	8	.13	.4	.3	LSW	1.2X	140	6
2002	MAY	28	0118	1.46	19	25.80	155	19.40	8.24	29	7	.09	.5	.8	KAO	1.7X	72	3
2002	MAY	28	0340	31.08	19	25.20	155	16.00	14.47	18	4	.07	1.0	.4	DEP	1.3U	156	3
2002	MAY	28	0447	8.13	19	25.32	155	16.18	13.31	20	5	.10	.7	.7	DEP	1.0X	158	2

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	28	0501	20.91	19	33.43	155	37.85	8.13	37	9	.14	.4	.9	MLO	1.6X	105	8
2002	MAY	28	0551	12.51	19	26.30	155	30.82	12.27	27	6	.10	.5	1.0	KAO	1.2X	95	5
2002	MAY	28	0558	19.92	19	25.36	155	16.18	14.50	16	3	.08	1.3	.4	DEP	1.0X	167	2
2002	MAY	28	0649	48.08	19	25.38	155	17.44	4.57	20	4	.10	.4	.5	SNCL	1.4X	87	0
2002	MAY	28	0658	6.13	19	40.99	155	14.08	40.10	32	6	.12	.8	1.4	KEA	1.3X	133	22
2002	MAY	28	0825	13.11	19	46.41	155	34.18	14.69	26	7	.11	.4	.4	KEA	1.7X	100	12
2002	MAY	28	0857	29.13	19	28.48	155	12.89	30.94	29	5	.10	.8	1.2	DEP	1.4X	218	7
2002	MAY	28	1244	43.04	19	16.89	155	29.79	10.90	24	4	.09	.4	1.4	LSW	1.3X	129	11
2002	MAY	28	1448	11.57	19	46.83	156	9.90	5.88	20	2	.13	2.5	1.8	HUA	2.1X	274	36
2002	MAY	28	1808	30.16	19	24.70	155	17.11	3.79	23	5	.13	.6	.2	SNCL	1.7X	62	0
2002	MAY	28	1833	11.71	18	56.15	155	12.59	30.14	4310		.11	1.0	2.0	LOI	1.9X	245	36
2002	MAY	28	1949	34.37	19	19.18	155	13.15	7.97	3912		.10	.4	.5	SF2	1.5X	147	6
2002	MAY	29	0111	53.45	18	58.14	155	5.11	44.87	21	3	.11	2.2	3.4	LOI	1.5X	305	49
2002	MAY	29	0429	21.68	19	46.44	155	34.18	14.68	16	3	.11	.7	.7	KEA	.9X	105	12
2002	MAY	29	0456	40.98	20	3.34	155	58.58	3.98	36	7	.21	1.4	1.6	KOHF#	2.6X	176	62
2002	MAY	29	0835	47.67	19	25.59	155	16.01	9.37	20	5	.14	1.4	.6	INTL	1.9X	227	2
2002	MAY	29	1052	1.01	19	19.39	155	11.77	4.29	34	9	.11	.5	2.4	SSF	1.8X	128	6
2002	MAY	29	1250	28.79	19	41.16	156	10.23	36.83	23	6	.14	1.5	2.5	HUA	1.5X	275	35
2002	MAY	29	2155	19.23	19	9.90	155	26.32	31.67	19	3	.09	1.3	1.4	DLS	1.6X	222	3
2002	MAY	29	2210	49.32	19	30.45	155	26.19	24.90	37	8	.12	.5	.9	DML	2.0X	50	4
2002	MAY	29	2240	1.69	19	24.47	155	17.03	5.02	18	5	.14	.6	.5	INTL	1.7X	80	1
2002	MAY	30	0012	10.98	19	29.95	155	26.55	6.89	19	4	.12	.4	1.2	KAO	1.2X	113	4
2002	MAY	30	0118	11.01	19	26.01	155	13.15	14.55	17	4	.09	1.2	.4	DEP	1.0X	271	8
2002	MAY	30	0144	1.66	19	22.74	155	14.18	3.70	36	8	.12	.4	.4	SEC	2.2X	126	2
2002	MAY	30	0438	45.71	19	30.08	155	7.41	9.09	19	5	.10	.9	1.3	GLN	1.3X	203	16
2002	MAY	30	0541	4.38	19	24.09	155	15.75	3.01	15	3	.07	.3	.4	SEC	1.7X	79	2
2002	MAY	30	0551	47.88	20	3.29	155	30.38	9.21	20	5	.17	1.2	.7	KEA	1.4X	210	25
2002	MAY	30	0628	43.82	19	18.86	155	15.60	4.17	27	6	.11	.5	2.1	SSF	1.2X	121	5
2002	MAY	30	0713	34.60	19	24.94	155	16.79	6.46	26	6	.16	.6	.5	INTL	1.8X	94	0
2002	MAY	30	0933	17.85	19	28.37	155	27.93	8.48	19	4	.09	.5	1.4	KAO	1.4X	86	7
2002	MAY	30	1044	53.13	19	20.99	155	28.28	9.58	37	6	.12	.4	.6	KAO	1.4X	57	3
2002	MAY	30	1736	40.31	19	25.72	155	14.40	15.13	17	4	.11	1.4	.9	DEP	1.1X	221	2
2002	MAY	30	2042	28.97	19	25.25	155	15.95	7.56	21	6	.15	.7	.6	INTL	1.8X	125	2
2002	MAY	30	2145	54.58	18	58.66	155	12.96	39.09	31	7	.08	1.1	1.5	LOI	1.7X	244	33
2002	MAY	30	2335	3.27	19	25.21	155	16.07	7.30	19	6	.12	.6	.5	INTL	1.6X	119	2
2002	MAY	31	0040	13.35	19	23.65	155	17.03	2.63	27	6	.09	.3	.2	SSC	1.8X	78	1
2002	MAY	31	0150	58.70	19	48.60	156	10.68	14.62	12	3	.14	7.41	1.9	HUA -	1.7X	311	38
2002	MAY	31	0200	21.00	19	18.88	154	59.21	39.51	4411		.11	.9	.8	LER	2.0X	202	12
2002	MAY	31	0356	45.22	19	27.82	155	25.64	5.73	22	6	.12	.4	1.5	KAO	1.1X	45	5
2002	MAY	31	0505	12.27	19	58.68	155	41.51	11.41	3710		.12	.6	.9	KOH	1.9X	132	19
2002	MAY	31	0704	28.38	19	24.50	155	17.57	11.77	17	4	.07	.6	.8	INT	1.4X	72	2
2002	MAY	31	0834	45.86	19	28.19	155	28.30	7.63	3810		.11	.3	1.1	KAO	1.7X	55	7
2002	MAY	31	1014	2.81	19	23.51	155	16.88	2.97	39	9	.11	.3	.2	SSC	2.5X	36	0
2002	MAY	31	1150	44.11	19	27.27	155	31.81	46.93	24	5	.14	1.4	.9	DML	2.3X	65	5
2002	MAY	31	1526	52.68	19	44.99	155	26.56	24.28	28	6	.12	.5	1.2	KEA	1.6X	63	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	MAY	31	1822	5.94	19	17.60	155	34.62	47.72	13	2	.12	1.7	1.6	DLS	2.1X	231	12
2002	MAY	31	1854	55.10	19	14.26	155	29.58	0.77	24	7	.14	.4	.3	LSW	1.3X	100	9
2002	MAY	31	2046	11.64	19	48.19	156	13.75	37.39	22	7	.10	1.3	2.2	HUA	1.7X	298	43
2002	MAY	31	2105	41.61	19	30.35	155	37.72	30.59	17	4	.11	.6	1.3	DML	1.5X	84	4
2002	MAY	31	2139	57.24	19	25.66	155	15.21	16.38	15	6	.12	1.3	.8	DEP	1.3X	253	4
2002	MAY	31	2147	38.86	19	49.03	155	43.18	10.00	20	4	.11	.7	.6	HUA	1.4X	191	8
2002	MAY	31	2335	28.92	19	23.05	155	13.57	18.13	14	4	.11	1.5	.9	DEP	1.2X	301	4
2002	JUN	1	0210	38.05	19	27.01	155	35.56	44.63	24	7	.14	1.1	1.4	DML	1.9X	79	1
2002	JUN	1	0321	1.56	19	24.36	155	32.96	43.71	15	3	.15	1.6	1.9	DML	1.4X	133	1
2002	JUN	1	0348	15.07	19	26.78	155	4.84	15.86	13	2	.08	1.7	.8	DEP	1.2X	319	16
2002	JUN	1	0556	50.26	19	23.40	155	56.36	8.50	17	3	.18	1.5	1.1	KON	1.3X	232	23
2002	JUN	1	0848	38.79	19	24.57	155	16.31	7.25	17	5	.10	.8	.6	INTL	1.9X	92	1
2002	JUN	1	1007	31.04	19	42.73	155	38.08	40.08	17	2	.13	1.8	1.5	KEA	2.1X	248	20
2002	JUN	1	1014	32.92	19	29.49	155	34.74	1.41	15	6	.09	.4	.3	MLO	1.3X	104	2
2002	JUN	1	1540	47.11	19	19.28	155	17.62	31.91	36	9	.11	.8	.8	DEP	1.6X	98	2
2002	JUN	1	1718	41.15	18	55.74	155	10.74	42.41	24	5	.10	1.5	1.8	LOI	1.7X	281	39
2002	JUN	1	1757	41.83	19	52.23	155	21.16	12.28	26	5	.12	.7	.4	KEA	1.5X	140	2
2002	JUN	1	1812	45.53	19	28.09	155	39.47	11.66	14	3	.11	.6	.9	MLO	1.5X	112	6
2002	JUN	1	1817	3.63	19	17.58	155	29.61	0.08	4311		.11	.3	.2	LSW	1.6X	76	10
2002	JUN	1	2302	53.30	19	25.57	155	17.19	6.22	12	2	.10	.7	1.1	INTL	1.6X	96	1
2002	JUN	1	2316	36.01	19	12.32	155	28.62	0.08	31	7	.15	.4	.2	LSW	1.4X	104	5
2002	JUN	1	2345	20.62	19	25.05	155	16.29	10.59	16	3	.11	.9	1.2	INT	1.0X	108	2
2002	JUN	2	0003	31.29	19	20.14	155	9.31	6.73	28	6	.10	.9	.7	SF3	1.3X	208	6
2002	JUN	2	0106	44.45	19	25.26	155	30.10	11.56	22	5	.08	.4	1.2	KAO	1.1X	109	7
2002	JUN	2	0109	41.34	19	26.70	155	29.87	14.20	24	6	.13	.6	1.5	DML	1.3X	86	6
2002	JUN	2	0439	28.67	19	25.23	155	16.50	3.04	19	5	.13	.4	.2	SNCL	1.4X	108	1
2002	JUN	2	0451	41.78	19	21.24	155	23.59	9.54	23	4	.08	.5	.8	SWR	1.0X	85	2
2002	JUN	2	0643	37.35	19	19.02	155	2.10	7.96	28	7	.13	1.0	.7	SF5	1.3X	231	13
2002	JUN	2	0748	2.46	19	22.80	155	27.81	5.53	23	4	.09	.4	.7	KAO	1.1X	76	1
2002	JUN	2	0813	1.36	19	19.79	155	7.01	7.71	43	7	.11	.4	.5	SF4F	2.7X	139	5
2002	JUN	2	0815	4.56	19	20.37	155	2.41	38.42	4111		.12	1.0	.7	DEP	1.6X	205	11
2002	JUN	2	0840	24.65	19	12.66	155	28.08	0.11	4311		.13	.3	.2	LSW	1.9X	100	6
2002	JUN	2	0915	48.36	19	26.16	155	33.58	46.09	14	3	.12	2.0	1.9	DML	1.4X	111	4
2002	JUN	2	1026	37.02	19	24.75	155	16.98	4.36	15	4	.15	.7	.5	SNCL	.9X	98	0
2002	JUN	2	1259	56.25	19	25.30	155	16.70	1.62	21	5	.13	.3	.2	SNCL	1.2X	105	1
2002	JUN	2	1642	56.71	19	24.45	155	14.60	16.92	17	3	.12	1.7	.9	DEP	1.0X	164	1
2002	JUN	2	1907	8.44	19	24.11	155	16.96	6.20	22	5	.11	.6	.5	INTL	1.8X	73	1
2002	JUN	2	2117	23.33	19	13.46	155	4.87	43.07	15	3	.15	3.6	1.6	DEP	1.4X	330	25
2002	JUN	2	2214	55.26	19	24.84	155	17.37	11.41	18	4	.12	1.0	.9	INTL	1.7X	68	1
2002	JUN	3	0347	52.32	18	53.78	155	12.51	47.46	14	5	.13	3.0	3.5	LOI	1.8X	338	43
2002	JUN	3	0515	21.90	18	52.33	155	35.99	38.25	4010		.09	1.0	1.2	DLS	2.2X	284	14
2002	JUN	3	0603	21.58	19	28.76	155	34.87	53.48	19	5	.12	2.3	1.0	DML	1.7X	61	1
2002	JUN	3	0632	13.39	19	19.78	155	11.87	7.93	4310		.11	.4	.4	SF3	2.0X	86	6
2002	JUN	3	0729	50.42	19	15.18	155	30.17	3.79	34	7	.16	.5	2.1	LSW	1.3X	146	11
2002	JUN	3	1005	30.03	19	21.05	155	6.20	6.60	34	7	.12	.5	.9	SF4	1.6X	145	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUN	3	1037	18.61	19	24.48	155	16.17	5.21	23	5	.11	.7	.4	INTL	1.6X	91	1
2002	JUN	3	1059	31.43	19	25.40	155	16.28	9.05	16	3	.08	.9	.6	INTL	1.6X	120	2
2002	JUN	3	1149	22.13	19	32.05	155	7.98	13.98	14	4	.11	1.6	1.8	HIL	1.3X	277	17
2002	JUN	3	1412	43.05	19	18.54	155	52.70	9.13	17	3	.12	2.3	1.1	KON	1.1X	243	21
2002	JUN	3	2004	44.25	19	17.70	155	6.34	6.88	30	5	.12	.9	.8	SF4	1.2X	233	11
2002	JUN	3	2339	40.60	19	19.70	155	12.69	8.05	34	8	.12	.6	.4	SF2	1.6X	200	5
2002	JUN	4	0129	38.00	19	23.19	155	26.58	5.19	23	4	.13	.4	1.0	KAO	1.4X	100	2
2002	JUN	4	0737	48.31	19	25.54	155	14.64	4.34	18	4	.07	.6	.6	SNCL	1.7X	223	2
2002	JUN	4	0857	55.24	19	23.27	155	14.81	2.32	18	5	.07	.3	.4	SEC	1.6X	72	2
2002	JUN	4	1209	14.97	19	23.55	155	22.54	9.59	33	7	.09	.4	.8	KAO	1.6X	49	5
2002	JUN	4	1219	54.99	19	16.97	155	15.43	5.34	20	1	.09	.7	1.6	SF1	1.4X	193	3
2002	JUN	4	1246	15.10	19	24.63	155	16.39	2.93	16	3	.10	.3	.3	SNCL	1.5X	93	1
2002	JUN	4	1423	34.91	19	26.97	155	29.29	11.94	20	1	.12	.6	1.9	KAO	1.5X	80	7
2002	JUN	4	1825	54.54	19	20.23	155	6.84	6.78	24	2	.08	1.1	1.1	SF4	1.2X	213	6
2002	JUN	4	1943	18.38	19	24.83	155	16.20	0.14	21	3	.10	.2	.3	SNCL	1.5X	102	1
2002	JUN	4	2055	55.40	19	32.99	155	23.49	55.50	23	4	.13	1.2	1.4	DML	1.7X	121	6
2002	JUN	4	2317	13.60	19	39.31	155	6.76	13.52	18	4	.11	.6	.9	HIL	1.3X	101	10
2002	JUN	5	0001	40.88	19	20.55	155	50.79	12.51	12	1	.09	3.2	.7	KON	1.2X	294	19
2002	JUN	5	0018	48.52	19	26.17	155	15.88	6.36	14	3	.12	.9	1.1	INTL	1.7X	160	3
2002	JUN	5	0215	6.06	19	22.17	155	29.83	9.36	35	6	.11	.4	.7	KAO	1.7X	64	4
2002	JUN	5	0601	4.45	19	26.05	155	14.99	7.42	20	3	.07	.7	.8	INTL	1.8X	194	3
2002	JUN	5	1051	59.63	19	19.95	155	7.36	8.64	24	3	.07	.5	.9	SF4	1.5X	136	5
2002	JUN	5	1625	49.00	19	25.23	155	13.39	16.51	20	4	.09	1.3	.5	DEP	1.4X	268	7
2002	JUN	5	2142	14.81	18	49.27	155	12.25	8.89	22	6	.11	3.3	4.6	LOI	2.0X	283	60
2002	JUN	5	2204	8.37	19	24.76	155	17.30	4.26	19	6	.10	.5	.3	SNCL	1.7X	86	1
2002	JUN	5	2315	47.02	19	24.76	155	14.71	13.94	15	3	.09	.9	.4	DEP	1.2X	255	5
2002	JUN	5	2335	33.18	19	18.54	155	47.27	9.75	19	6	.11	.7	1.1	KON	1.0X	194	14
2002	JUN	6	0127	22.48	19	19.51	155	9.64	1.92	29	7	.12	.7	.5	SSF	1.2X	213	8
2002	JUN	6	0217	32.45	19	11.11	155	31.60	0.01	21	4	.16	.5	.3	LSW #	1.3X	99	7
2002	JUN	6	0452	32.45	19	26.15	155	16.21	7.67	15	3	.12	.8	.9	INTL	1.7X	144	3
2002	JUN	6	0505	49.31	19	12.28	155	27.88	0.30	32	6	.15	.4	.3	LSW	1.3X	119	5
2002	JUN	6	0625	27.99	19	30.22	155	22.86	12.55	20	4	.08	.5	.7	MLO	1.4X	107	1
2002	JUN	6	0649	2.95	19	1.69	155	24.86	40.58	30	6	.09	.9	1.5	LOI	1.6X	225	15
2002	JUN	6	0909	52.74	19	24.92	155	16.56	7.87	22	5	.13	.9	.5	INTL	1.9X	148	1
2002	JUN	6	1135	0.42	19	25.96	155	16.02	2.54	21	5	.06	.3	.3	SNC	1.9X	126	3
2002	JUN	6	1432	14.94	19	32.50	155	49.80	8.17	17	3	.20	1.9	.9	KON	1.8X	272	8
2002	JUN	6	1439	55.98	19	6.63	155	40.06	1.74	33	7	.15	.4	.6	LSW	1.7X	116	11
2002	JUN	6	1614	31.79	19	26.11	155	28.24	9.62	16	3	.12	.6	1.3	KAO	1.1X	86	7
2002	JUN	6	1736	44.82	19	24.84	155	17.36	9.50	17	4	.10	1.0	.9	INTL	1.4X	164	1
2002	JUN	6	1836	29.46	19	27.09	155	29.83	5.30	27	6	.15	.4	3.4	KAO	1.6X	67	9
2002	JUN	6	1907	56.78	19	23.71	155	16.86	2.41	16	6	.05	.3	.2	SSC	1.3U	58	1
2002	JUN	6	1943	7.57	19	25.43	155	16.40	2.52	23	6	.12	.4	.2	SNCL	1.7X	110	1
2002	JUN	6	2136	39.88	20	1.97	155	56.38	9.16	22	3	.11	1.8	1.0	KOH	1.7X	295	35
2002	JUN	7	0419	48.35	19	23.21	155	15.08	18.49	19	4	.15	1.1	1.3	DEP	1.2X	199	2
2002	JUN	7	0534	0.44	19	24.30	155	17.21	2.89	15	5	.11	.4	.4	SSC	1.5U	86	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUN	7	0611	15.63	19	20.49	155	4.14	2.57	29	7	.13	.8	.7	SSF	1.5X	223	8
2002	JUN	7	0705	36.95	19	24.90	155	18.86	1.32	22	5	.15	.3	.6	SNCL	.8X	75	2
2002	JUN	7	0913	49.63	19	25.60	155	15.76	0.37	21	6	.14	.2	.3	SNCL	1.6X	183	3
2002	JUN	7	1137	1.46	19	24.48	155	16.70	13.48	19	4	.10	1.1	.7	DEP	1.4X	84	1
2002	JUN	7	1245	55.76	19	24.79	155	16.65	8.49	15	4	.10	.9	.7	INTL	1.7X	143	1
2002	JUN	7	1301	16.57	19	24.84	155	17.22	15.40	18	4	.09	.7	.4	DEP	1.4X	151	1
2002	JUN	7	2050	44.05	19	25.98	155	15.66	7.08	22	6	.17	.8	.7	INTL	1.4X	163	3
2002	JUN	8	0039	39.84	19	25.23	155	10.74	19.79	21	6	.12	1.1	1.0	DEP	1.3X	276	6
2002	JUN	8	0256	45.74	19	54.76	155	30.52	35.57	21	7	.10	.8	1.1	KEA	1.0X	208	16
2002	JUN	8	0347	6.41	19	25.83	155	17.37	7.48	20	4	.14	.8	.6	INTL	1.7X	93	1
2002	JUN	8	0857	36.73	19	26.18	155	30.57	11.02	30	5	.10	.4	.8	KAO	1.5X	91	9
2002	JUN	8	1218	31.97	19	24.06	155	15.41	3.06	16	5	.07	.3	.3	SEC	1.5X	152	2
2002	JUN	8	1340	54.07	19	13.27	155	29.10	42.25	4211		.07	.6	1.0	DLS	1.7X	84	7
2002	JUN	8	1356	17.89	19	11.59	155	24.09	44.69	3911		.12	.9	1.0	DEP	1.5X	171	5
2002	JUN	8	1804	47.53	19	13.56	155	46.36	14.50	15	3	.06	1.5	.6	KON	1.3X	218	8
2002	JUN	8	1849	6.54	19	25.61	155	12.75	14.03	19	6	.10	1.2	.4	DEP	1.5X	278	8
2002	JUN	8	2349	43.50	20	1.89	155	45.57	10.57	23	4	.11	.8	.9	KOH	1.6X	156	11
2002	JUN	8	2352	23.01	19	25.06	155	16.07	13.88	24	6	.13	.7	.5	DEP	1.3X	111	3
2002	JUN	9	0119	21.29	19	24.40	155	15.18	15.93	17	4	.12	1.2	.6	DEP	1.2X	125	2
2002	JUN	9	0332	51.78	19	24.65	155	16.06	0.03	25	7	.16	.2	.3	SNCL#	1.2X	98	2
2002	JUN	9	0411	13.57	19	1.51	155	26.72	38.09	4213		.10	.8	1.1	DLS	2.0X	211	15
2002	JUN	9	0456	28.04	19	10.99	155	42.69	12.39	16	2	.10	.8	.7	LSW	1.2X	145	7
2002	JUN	9	0556	45.43	19	33.54	155	18.31	13.25	34	8	.11	.5	.6	DEP	1.4X	120	11
2002	JUN	9	0630	57.46	19	16.08	155	29.65	13.19	25	6	.15	.5	1.5	DLS	1.4X	82	12
2002	JUN	9	0656	48.23	19	11.58	155	41.75	0.19	20	6	.10	.6	.3	LSW	1.3X	160	9
2002	JUN	9	1221	48.94	19	25.07	155	3.21	2.94	23	4	.17	.8	1.8	SME	1.0X	154	8
2002	JUN	9	1223	31.82	18	54.39	155	14.35	12.31	34	7	.13	1.3	.5	LOI	1.7X	267	37
2002	JUN	9	1226	43.95	18	55.09	155	15.50	11.44	26	5	.10	1.1	.6	LOI	1.5X	263	34
2002	JUN	9	1309	37.40	19	47.81	155	23.81	27.13	16	6	.09	1.1	1.3	KEA	1.2X	176	12
2002	JUN	9	1313	32.07	19	20.26	155	6.00	6.13	25	3	.13	1.0	1.5	SF4	1.3X	240	6
2002	JUN	9	1327	48.12	19	53.92	155	26.93	31.07	28	5	.10	.7	1.0	KEA	1.6X	194	11
2002	JUN	9	1402	5.88	19	28.30	155	23.78	25.30	43	9	.11	.5	.9	DML	2.0X	78	3
2002	JUN	10	0026	56.59	19	24.48	155	37.58	3.02	16	3	.22	.7	.4	MLO	.9X	111	0
2002	JUN	10	0500	55.10	19	19.89	155	12.87	6.48	35	8	.13	.5	.7	SF2	1.6X	166	5
2002	JUN	10	0659	48.72	19	19.71	155	6.76	5.62	30	5	.10	.4	1.2	SF4	1.5X	152	5
2002	JUN	10	1205	58.32	19	18.52	155	12.93	5.21	37	8	.11	.3	.9	SF2	1.4X	96	3
2002	JUN	10	1425	51.44	19	16.42	155	26.41	9.09	34	7	.13	.4	.7	LSW	1.3X	60	6
2002	JUN	10	2133	5.93	19	21.31	155	18.51	1.35	26	7	.10	.3	.4	SWR	1.8X	107	5
2002	JUN	11	0401	56.75	19	15.11	155	8.20	42.12	35	8	.11	1.1	.7	DEP	1.5X	239	15
2002	JUN	11	1153	55.08	19	19.56	155	7.49	5.71	22		.08	.5	1.4	SF4	1.3X	136	4
2002	JUN	11	1455	31.67	19	23.30	155	17.04	3.25	12	4	.07	.3	.4	SSC	1.6X	92	0
2002	JUN	11	1714	29.00	19	14.62	155	27.58	1.08	35	8	.16	.3	.4	LSW	1.4X	90	6
2002	JUN	11	1905	40.83	19	19.06	155	7.68	6.36	26	5	.12	.9	1.3	SF4	1.7X	210	8
2002	JUN	12	0148	3.15	19	22.55	155	2.27	7.06	26	3	.13	1.3	.8	SF5	1.3X	212	8
2002	JUN	12	0258	56.25	19	24.53	155	29.19	9.37	22	2	.12	.6	1.2	KAO	1.2X	111	5
2002	JUN	12	0349	34.02	19	21.69	155	18.26	10.03	15	1	.08	.9	1.4	SWRL	1.2X	181	4
2002	JUN	12	0854	57.63	19	39.30	155	58.10	35.51	20	4	.09	1.3	1.6	HUA	1.4X	277	14
2002	JUN	12	1057	14.17	18	52.79	155	15.42	13.96	29	4	.10	1.2	1.7	LOI	2.0X	259	38
2002	JUN	12	1312	34.46	19	12.43	155	28.38	0.12	32	8	.12	.3	.2	LSW	1.5X	95	5
2002	JUN	12	1415	44.27	19	15.69	155	28.64	0.73	30	5	.12	.3	.4	LSW	1.3X	66	8
2002	JUN	12	2311	1.78	19	38.45	155	21.13	2.24	15	4	.12	1.8	1.6	KEA	1.8X	240	15
2002	JUN	12	2338	0.24	19	21.81	155	19.22	0.03	21	7	.12	.3	.2	SWR	1.6U	190	4
2002	JUN	13	0151	58.54	19	18.46	155	30.58	8.14	3710		.10	.3	.9	LSW	1.6X	88	9
2002	JUN	13	0158	27.78	19	17.90	155	6.49	6.92	26	4	.12	1.3	.9	SF4	1.3X	232	10
2002	JUN	13	1103	44.47	19	12.99	155	28.19	0.42	4611		.15	.3	.2	LSW	1.9X	97	6
2002	JUN	13	1419	56.05	19	31.00	155	22.88	12.46	27	7	.12	.5	.7	MLO	1.4X	99	2
2002	JUN	13	1433	58.08	19	22.88	155	30.69	9.90	22	4	.06	.5	.9	KAO	1.4X	118	5
2002	JUN	13	1516	43.74	19	11.75	155	28.20	33.99	4612		.08	.6	1.0	DLS	2.1X	99	4
2002	JUN	13	1542	26.47	19	30.68	155	39.11	30.79	29	6	.07	.7	1.1	DML	1.7X	104	6
2002	JUN	13	1802	55.51	19	41.03	155	26.59	24.75	27	6	.10	.5	1.0	KEA	1.5X	110	10
2002	JUN	13	1835	1.87	19	19.25	155	11.89	6.38	26	6	.12	1.0	1.2	SF3	1.8X	288	7
2002	JUN	13	2310	4.39	19	17.74	155	28.65	12.58	19	4	.13	.6	.9	LSW	1.4X	179	9
2002	JUN	14	0023	57.43	19	13.80	155	29.11	40.56	4412		.08	.6	.9	DLS	1.9X	96	3
2002	JUN	14	0214	44.90	19	19.01	155	8.33	2.25	24	5	.13	.6	.7	SSF	1.4X	199	8
2002	JUN	14	0359	49.32	19	26.75	155	28.87	7.80	33	9	.14	.4	1.3	KAO	1.5X	80	8
2002	JUN	14	0446	26.36	19	27.19	155	13.34	31.57	34	8	.11	.8	.9	DEP	1.4X	139	5
2002	JUN	14	0850	9.78	19	38.96	155	58.44	13.63	19	3	.10	1.2	.5	KON	2.0X	292	15
2002	JUN	14	1337	10.07	18	53.49	155	9.06	16.49	17	4	.15	2.0	17.3	LOI -	1.7X	310	44
2002	JUN	14	1831	14.59	19	29.91	155	26.56	10.51	27	7	.13	.4	.8	KAO	1.6X	78	4
2002	JUN	14	2131	16.34	19	19.47	155	7.26	5.92	36	8	.13	.6	.7	SF4	1.6X	200	7
2002	JUN	15	0120	13.27	19	24.73	155	29.96	14.52	19	4	.10	.5	1.0	DML	1.4X	100	5
2002	JUN	15	0418	27.99	19	39.65	156	0.83	0.94	24	5	.11	2.2	1.0	HUA	1.7X	287	19
2002	JUN	15	0556	49.95	19	24.17	155	13.01	23.59	15	3	.12	1.9	1.1	DEP	1.6X	298	6
2002	JUN	15	0759	20.19	19	30.10	155	56.09	9.22	27	5	.16	1.2	.6	KON	1.5X	267	18
2002	JUN	15	0820	14.57	19	20.16	155	24.61	10.35	26	7	.09	.4	.7	SWR	1.3U	101	2
2002	JUN	15	1050	57.15	19	39.38	156	3.87	5.77	15	2	.16	1.8	1.3	HUA	1.7X	280	24
2002	JUN	15	1135	40.19	19	20.13	155	8.49	6.57	4710		.13	.4	.7	SF4	2.7X	104	5
2002	JUN	15	1346	22.82	19	22.45	155	30.09	10.30	34	9	.08	.3	.8	KAO	1.6X	59	4
2002	JUN	15	1702	40.55	19	19.21	155	48.92	8.80	26	6	.11	.6	.8	KON	1.3X	210	16
2002	JUN	16	0053	23.04	19	23.19	155	17.21	2.40	17	5	.08	.3	.2	SSC	1.5X	121	1
2002	JUN	16	0206	54.23	19	25.26	155	30.55	12.40	27	6	.08	.4	.7	KAO	1.3X	89	7
2002	JUN	16	0323	52.86	19	29.56	156	33.51	7.01	19	5	.11	8.3	10.6	DIS -	1.8X	319	79
2002	JUN	16	0552	55.91	19	18.02	155	29.79	5.54	22	3	.09	.5	1.6	LSW	1.4X	123	9
2002	JUN	16	1348	46.72	19	21.35	155	29.82	8.24	4413		.10	.3	.8	KAO	1.7X	61	4
2002	JUN	16	1903	22.47	19	23.30	155	16.89	2.81	16	6	.06	.3	.3	SSC	1.5U	111	0
2002	JUN	17	0140	42.44	19	41.49	156	1.46	6.80	19	3	.08	1.0	.9	HUA	1.8X	306	19
2002	JUN	17	0220	47.69	19	21.37	155	30.13	9.52	33	7	.10	.4	.6	KAO	1.6X	69	5
2002	JUN	17	0527	37.50	19	43.76	156	2.58	6.56	14	2	.13	1.5	1.0	HUA	1.2X	307	22
2002	JUN	17	0629	2.40	19	38.47	156	4.18	6.94	17	4	.11	1.5	.7	KON	1.6X	304	35
2002	JUN	17	0800	8.88	19	6.25	155	34.86	38.82	4512		.09	.6	1.1	DLS	2.1X	148	14

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUN	17	1006	49.96	19	30.00	155	28.20	4.32	46	9	.11	.3	1.2	KAO	2.6X	47	4
2002	JUN	17	2003	8.34	19	18.76	155	30.27	4.65	21	4	.13	.5	4.9	LSW	1.2X	161	8
2002	JUN	17	2036	2.90	19	17.62	155	29.85	6.08	31	6	.16	.4	1.8	LSW	1.3X	94	10
2002	JUN	17	2211	46.91	19	21.39	155	23.88	9.30	4111		.11	.3	.5	SWR	1.6X	43	2
2002	JUN	18	0333	48.40	19	20.01	155	20.44	28.25	22	6	.12	1.1	1.2	DEP	1.5X	205	5
2002	JUN	18	0604	8.62	19	10.97	155	28.82	6.31	38	8	.17	.5	1.1	LSW	2.1X	116	3
2002	JUN	18	0723	42.39	19	28.63	154	53.53	1.35	21	6	.17	.6	.8	SLE	1.3X	113	5
2002	JUN	18	0914	28.44	19	23.05	155	17.17	2.66	16	5	.06	.3	.3	SSC	1.7X	67	1
2002	JUN	18	0927	37.95	19	21.08	155	4.60	5.91	32	6	.13	.5	1.2	SF5	1.7X	167	7
2002	JUN	18	0958	50.89	19	29.77	155	28.55	6.17	17	5	.08	.4	1.6	KAO	1.4X	69	4
2002	JUN	18	1027	49.80	19	46.80	155	28.04	19.40	24	4	.10	.5	1.2	KEA	1.5X	89	1
2002	JUN	18	2030	30.44	19	24.28	155	16.19	13.91	15	5	.09	.9	1.0	DEP	1.4X	216	3
2002	JUN	18	2316	7.76	19	19.81	155	45.71	11.10	36	8	.13	.5	.5	KON	2.4X	167	10
2002	JUN	19	0453	39.91	19	24.72	155	16.85	5.13	14	4	.10	.7	.5	INTL	1.4X	88	0
2002	JUN	19	0551	5.89	19	32.84	155	50.00	8.25	18	4	.21	1.1	1.3	KON	1.4X	218	8
2002	JUN	19	0944	15.81	20	0.18	155	35.92	5.23	16	5	.10	.6	1.3	KOH	1.7X	168	17
2002	JUN	19	1256	58.20	19	17.00	155	31.26	6.12	45	9	.14	.4	1.0	LSW	2.3X	57	12
2002	JUN	19	1347	3.15	19	26.92	155	23.91	9.29	28	7	.12	.5	.9	KAO	1.5X	71	5
2002	JUN	19	2250	27.76	19	17.54	155	28.87	6.13	24	7	.15	.5	1.2	LSW	1.2X	110	11
2002	JUN	20	0335	50.11	19	25.85	155	18.68	7.29	16	5	.08	.6	1.0	INT	1.4X	91	2
2002	JUN	20	1034	10.70	19	50.23	155	42.18	38.37	3910		.09	.7	1.1	KEA	2.2X	126	5
2002	JUN	20	2015	34.21	19	24.14	155	16.99	12.57	20	4	.11	.7	.6	INT	1.1X	145	3
2002	JUN	21	0018	48.44	19	25.68	155	16.48	2.33	19	5	.12	.4	.3	SNCL	1.7X	110	2
2002	JUN	21	0129	45.67	19	20.37	155	4.37	7.36	26	6	.11	.8	.7	SF5	1.5X	222	8
2002	JUN	21	1902	29.78	19	12.71	155	27.56	1.01	3310		.22	.4	.5	LSW	1.5X	132	6
2002	JUN	22	0027	46.47	19	24.63	155	38.19	2.85	35	6	.13	.3	.3	MLO	2.5X	101	1
2002	JUN	22	0205	16.04	19	20.98	155	4.30	8.60	42	8	.09	.6	.5	SF5	2.9X	181	7
2002	JUN	22	0807	21.23	19	23.30	154	59.09	2.27	20	4	.13	.7	.4	SLE	1.3X	174	3
2002	JUN	22	0925	39.55	19	27.28	155	25.91	9.33	27	8	.13	.4	1.0	KAO	1.4X	59	7
2002	JUN	22	1021	24.07	19	13.95	155	32.43	4.75	20	4	.12	.4	6.6	LSW	1.1X	115	11
2002	JUN	22	1811	49.02	19	18.42	155	16.23	5.78	36	7	.09	.3	.8	SF1	1.6X	114	4
2002	JUN	22	1851	19.91	19	13.48	155	29.22	38.77	4813		.10	.5	.9	DLS	2.1X	82	8
2002	JUN	22	1937	31.59	19	28.05	155	26.54	2.09	28	8	.12	.3	.6	KAO	1.4X	48	7
2002	JUN	22	2011	52.56	19	3.47	155	12.84	16.56	20	6	.08	1.2	13.4	LOI -	2.7X	280	29
2002	JUN	23	0246	22.44	19	11.92	155	37.14	10.07	26	6	.17	.5	1.3	LSW	1.8X	87	16
2002	JUN	23	0325	44.19	19	24.11	155	15.74	2.81	21	6	.11	.3	.3	SEC	1.7X	79	2
2002	JUN	23	0419	7.73	19	33.91	155	45.96	1.55	24	5	.12	.4	.9	KON	1.8X	152	6
2002	JUN	23	0618	8.50	19	58.96	155	35.65	11.12	34	6	.12	.9	.4	KOHF	2.3X	161	15
2002	JUN	23	0706	0.09	19	19.74	155	11.73	9.19	41	6	.12	.4	.3	SF3	2.4X	89	6
2002	JUN	23	0739	56.48	19	16.52	155	18.77	11.57	38	8	.10	.5	.6	SWR	1.6X	146	3
2002	JUN	23	0749	16.08	19	23.96	155	17.10	9.12	16	3	.11	.7	.8	INTL	1.0X	149	3
2002	JUN	23	1257	34.02	19	33.82	155	45.85	1.04	27	6	.13	.5	.6	KON	1.6X	150	6
2002	JUN	23	2335	14.44	18	51.28	155	9.70	7.99	18	5	.13	4.5	5.9	LOI #	1.6X	308	58
2002	JUN	24	0015	51.77	19	17.45	155	25.83	51.35	17	3	.12	1.7	2.5	DLS	1.7X	205	7
2002	JUN	24	0742	41.48	19	18.79	155	26.38	8.61	37	9	.15	.4	.8	LSW	1.3X	55	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUN	24	1642	43.43	19	56.29	155	30.45	21.23	21	6	.11	.9	2.0	KEA	1.5X	225	18
2002	JUN	24	1758	12.93	18	53.37	155	13.84	11.07	17	2	.09	1.9	.9	LOI	2.1X	270	39
2002	JUN	24	1759	1.90	18	54.25	155	14.77	11.17	22	2	.12	2.8	.9	LOI	1.8X	279	36
2002	JUN	24	1759	58.89	18	55.71	155	15.87	12.50	16		.11	3.2	1.1	LOI	1.7X	260	33
2002	JUN	24	1953	53.67	19	11.43	155	27.88	35.80	3410		.08	.6	1.3	DLS	1.7X	126	4
2002	JUN	24	2218	50.66	18	55.35	155	12.98	8.58	29	6	.11	1.1	.7	LOI	2.9X	254	37
2002	JUN	24	2242	3.07	19	15.58	155	25.52	8.82	25	5	.13	.5	.7	LSW	1.3X	142	9
2002	JUN	24	2314	42.03	19	33.20	155	17.56	8.88	22	6	.14	.8	1.6	GLN	1.4X	192	10
2002	JUN	24	2339	25.07	19	52.85	155	29.74	22.41	28	6	.11	.7	1.2	KEA	1.7X	183	12
2002	JUN	25	0301	25.97	19	18.20	155	26.78	8.88	23	5	.15	.9	.9	LSW	1.3X	225	7
2002	JUN	25	0350	33.53	18	54.03	155	14.00	12.42	39	8	.12	1.2	1.1	LOI	3.0X	266	38
2002	JUN	25	1331	3.53	19	29.44	155	27.76	6.94	20	5	.10	.4	1.5	KAO	1.5X	84	5
2002	JUN	25	1717	10.33	19	28.19	155	24.08	12.99	31	8	.10	.4	.6	KAO	1.8X	69	3
2002	JUN	26	0512	47.18	19	37.27	155	7.98	25.30	20	7	.09	2.1	3.3	HIL	1.4X	270	23
2002	JUN	26	0532	47.50	19	12.79	155	30.17	0.01	27	8	.18	.4	.2	LSWF#	1.7X	88	7
2002	JUN	26	0604	33.17	19	29.66	155	42.76	8.84	20	5	.11	.7	1.3	MLO	1.6X	135	6
2002	JUN	26	0612	56.99	19	21.10	155	15.70	15.26	32	8	.05	.6	.3	DEP	1.9X	147	2
2002	JUN	26	1112	50.25	19	12.69	155	30.40	0.03	30	6	.17	.4	.3	LSW #	1.5X	72	7
2002	JUN	26	1620	44.97	19	28.07	155	35.89	11.19	14	2	.11	.9	1.5	MLOL	1.8X	151	2
2002	JUN	26	1731	37.74	19	1.46	155	14.85	24.33	32	5	.11	1.1	2.2	LOI	2.0X	232	27
2002	JUN	26	2130	49.24	19	24.91	155	16.32	9.83	17	4	.16	1.1	.6	INTL	1.7X	102	1
2002	JUN	27	0154	16.58	19	21.73	155	1.89	7.99	18	4	.19	1.4	1.0	SF5	1.2X	225	8
2002	JUN	27	0525	7.85	19	24.59	155	15.32	13.33	21	6	.12	.9	.4	DEP	1.1X	111	2
2002	JUN	27	1124	26.45	19	25.23	155	39.00	2.51	13	3	.06	.6	.4	MLO	1.0X	191	3
2002	JUN	27	2146	3.64	19	21.26	155	28.89	9.16	26	6	.14	.5	.5	KAO	1.1X	133	3
2002	JUN	27	2310	49.96	19	25.31	155	16.35	3.01	14	5	.14	.5	.7	SNCL	1.3X	115	1
2002	JUN	27	2337	31.84	19	39.06	155	47.37	12.45	17	3	.07	.7	.6	HUA	1.2X	139	7
2002	JUN	28	0506	57.08	19	27.51	155	14.79	30.97	19	4	.11	1.0	1.3	DEP	1.7X	172	5
2002	JUN	28	0523	3.60	19	3.41	155	29.69	29.59	18	3	.06	1.0	1.7	DLS	1.2X	227	12
2002	JUN	28	0603	31.92	19	27.59	155	14.50	33.59	30	6	.10	1.0	1.0	DEP	1.6X	135	4
2002	JUN	28	0636	38.79	19	20.10	155	11.85	8.88	43	9	.11	.4	.3	SF3	2.5X	106	5
2002	JUN	28	0830	11.78	19	28.06	155	14.41	30.31	25	6	.14	1.1	1.1	DEP	1.4X	113	4
2002	JUN	28	0936	26.40	19	19.75	155	6.88	9.67	5212		.12	.5	.4	SF4F	3.1X	142	5
2002	JUN	28	1904	50.08	19	22.97	155	30.72	10.54	33	7	.07	.3	.6	KAO	1.9X	55	5
2002	JUN	29	0156	44.71	19	48.97	155	48.73	16.11	30	8	.12	1.2	1.4	HUA	2.3X	241	15
2002	JUN	29	0201	49.64	19	48.62	155	47.66	15.12	28	6	.11	1.7	1.1	HUA	2.1X	229	14
2002	JUN	29	0213	47.38	19	48.49	155	47.81	15.25	29	6	.10	1.4	.9	HUA	2.0X	229	14
2002	JUN	29	0512	57.13	19	17.93	155	28.81	9.55	24	6	.14	.6	.9	LSW	1.3X	173	9
2002	JUN	29	0659	51.79	19	9.85	155	40.42	0.06	34	5	.18	.4	.2	LSW #	2.1X	86	10
2002	JUN	29	1134	31.79	19	11.98	155	33.73	5.77	40	6	.14	.4	1.4	LSW	2.4X	128	18
2002	JUN	29	1358	30.87	19	19.14	155	12.68	5.43	26	4	.11	.5	1.2	SF2	1.3X	89	4
2002	JUN	29	2303	19.40	19	35.39	155	55.51	27.52	17	3	.11	1.5	1.9	KON	1.3X	239	14
2002	JUN	29	2315	49.82	19	23.31	155	11.34	18.09	17	6	.16	1.5	.9	DEP	1.6X	303	8
2002	JUN	29	2358	16.43	18	52.68	155	13.60	11.31	16	2	.17	2.3	1.4	LOI	1.8X	262	40
2002	JUN	30	0234	19.21	19	30.47	155	27.76	5.72	19	4	.06	.3	1.0	MLO	1.2X	82	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUN	30	0257	35.91	19	18.22	155	8.48	1.74	32	7	.12	.9	.6	SSF	1.7X	224	9
2002	JUN	30	1311	18.11	19	25.64	155	19.26	5.92	19	6	.13	.6	1.0	KAO	1.0X	90	3
2002	JUN	30	1315	12.53	19	19.89	155	11.71	5.51	36	7	.12	.4	1.0	SF3	1.7X	86	6
2002	JUN	30	2053	57.53	19	28.67	155	23.99	13.79	28	9	.10	.5	.7	DML	1.6X	67	2
2002	JUN	30	2255	35.19	19	28.22	155	20.33	4.97	29	7	.10	.4	1.8	KAO	1.9X	117	6
2002	JUL	1	0501	34.07	19	28.07	155	21.90	3.08	24	7	.07	.4	.6	KAO	1.2X	130	4
2002	JUL	1	0639	10.32	19	27.74	155	21.26	2.69	23	6	.11	.4	.9	KAO	1.6X	130	5
2002	JUL	1	1045	52.41	19	28.05	155	54.09	12.10	36	6	.12	.9	.4	KON	2.9X	218	25
2002	JUL	1	1228	22.95	19	29.71	155	49.32	9.72	17	2	.23	2.3	1.5	KON	1.6X	223	6
2002	JUL	1	2329	8.83	19	11.46	155	30.99	36.61	23	3	.09	1.0	1.7	DLS	1.7X	206	21
2002	JUL	1	2352	47.33	19	16.62	155	15.42	9.78	38	7	.10	.5	.4	SF1	2.3X	172	6
2002	JUL	2	0353	54.74	19	11.87	155	31.26	36.00	17	1	.10	1.2	2.5	DLS	1.6X	206	21
2002	JUL	2	1013	47.47	19	11.77	155	30.88	40.66	36	8	.08	.7	1.1	DLS	2.0X	86	7
2002	JUL	2	1109	27.09	19	11.20	155	31.01	40.25	24	5	.07	.8	1.5	DLS	1.4X	193	14
2002	JUL	2	1224	47.05	19	12.31	155	36.69	4.30	16	3	.13	.5	5.2	LSW	1.7X	143	16
2002	JUL	2	1255	52.24	19	2.77	156	18.63	7.87	29	4	.10	5.2	6.6	KON	2.6X	312	59
2002	JUL	2	1307	23.15	19	38.17	156	8.86	44.27	3710	.09	1.0	1.4	KON	2.2X	253	33
2002	JUL	2	1346	26.50	19	14.70	155	35.36	1.38	38	9	.18	.4	.6	LSW	2.1X	105	15
2002	JUL	2	1524	29.39	19	23.01	155	14.72	3.15	18	5	.09	.3	.3	SEC	1.5X	92	2
2002	JUL	2	1531	51.57	19	29.61	155	37.23	9.76	15	5	.14	.8	1.0	MLOL	1.4X	209	5
2002	JUL	2	1547	43.76	19	18.46	155	46.59	10.76	35	8	.09	.6	.3	KON	2.3X	176	13
2002	JUL	2	1630	41.50	19	23.01	155	14.69	3.00	27	7	.09	.3	.3	SEC	2.1X	70	2
2002	JUL	2	1713	23.77	19	57.20	155	30.65	33.22	41	9	.09	.6	1.2	KEA	2.3X	166	19
2002	JUL	2	2132	49.11	19	21.45	155	38.56	1.90	16	4	.14	.6	.6	MLO	.9X	175	3
2002	JUL	2	2319	48.98	19	11.30	155	30.54	40.77	31	6	.09	.8	1.1	DLS	1.8X	91	6
2002	JUL	3	0419	52.32	19	23.14	155	14.60	3.50	3811	.11	.3	.3	SEC	2.7X	107	3
2002	JUL	3	0435	31.99	19	23.13	155	14.78	2.90	15	5	.09	.4	.5	SEC	1.4X	129	2
2002	JUL	3	0542	23.96	19	23.11	155	14.94	3.27	3910	.10	.3	.2	SECF	2.5X	110	2
2002	JUL	3	0855	57.02	19	11.19	155	25.37	32.36	25	5	.07	1.0	1.3	DLS	1.3X	203	17
2002	JUL	3	1705	21.64	19	26.50	155	29.05	9.91	28	7	.10	.4	.9	KAO	1.3X	84	8
2002	JUL	3	2300	3.54	19	23.30	155	14.89	2.99	30	8	.12	.3	.3	SEC	2.1X	103	2
2002	JUL	3	2323	11.60	19	32.20	155	14.18	23.25	33	9	.10	.6	1.1	DEP	1.6X	155	9
2002	JUL	4	0022	3.60	19	17.75	155	13.12	10.32	40	6	.11	.6	.4	SF2	2.5X	170	9
2002	JUL	4	0023	55.59	19	17.13	155	12.57	7.72	16	4	.09	1.0	2.0	SF2	1.5X	243	10
2002	JUL	4	0030	45.59	19	18.13	155	12.89	10.23	41	7	.10	.6	.3	SF2	2.7X	169	8
2002	JUL	4	0037	56.07	19	23.49	155	27.45	9.54	34	6	.10	.4	.7	KAO	1.9X	53	2
2002	JUL	4	0233	23.13	19	54.64	155	11.96	5.74	16	4	.10	1.1	.6	KEA	1.4X	296	15
2002	JUL	4	0523	0.85	19	10.96	155	30.72	0.30	40	9	.15	.4	.2	LSW	2.3X	98	6
2002	JUL	4	0549	26.62	19	20.95	155	11.22	7.92	30	7	.13	.9	.6	SF3	1.7X	197	5
2002	JUL	4	0654	32.85	19	10.65	155	30.67	0.05	18	4	.09	.3	.3	LSW	1.6X	104	5
2002	JUL	4	0909	56.56	19	10.98	155	30.50	0.03	31	4	.13	.5	.3	LSW #	1.8X	144	5
2002	JUL	4	1031	51.60	19	17.39	155	12.47	6.21	23	3	.10	.5	1.0	SF2	1.3X	159	2
2002	JUL	4	1049	23.10	19	17.61	155	12.93	5.31	28	5	.09	.4	.9	SF2	1.3X	129	1
2002	JUL	4	1355	26.92	19	56.80	155	29.51	30.11	18	4	.08	.8	1.4	KEA	1.1X	229	17
2002	JUL	4	1641	55.57	19	29.29	154	52.69	3.00	33	5	.18	1.0	1.9	SLE	1.5X	103	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUL	4	1919	21.39	19	28.13	155	37.14	11.68	12	2	.10	.8	1.5	MLOL	1.4X	115	2
2002	JUL	5	0431	41.93	18	33.45	154	16.76	11.14	4714	.14	7.5	10.4	DIS -	3.5X	318	120	
2002	JUL	5	1135	54.83	19	28.16	155	27.81	3.88	22	4	.11	.4	2.6	KAO	1.4X	75	7
2002	JUL	5	1230	4.47	19	19.27	154	37.35	49.52	4210	.12	1.5	.8	DIS	2.2X	297	29	
2002	JUL	5	1324	35.87	19	25.13	155	19.67	6.32	34	5	.11	.4	.8	KAO	2.0X	45	3
2002	JUL	5	1942	5.70	19	26.02	155	17.58	14.23	3711	.10	.4	.3	DEP	1.7X	67	1	
2002	JUL	6	0028	3.20	19	19.05	155	7.18	1.58	25	6	.10	.9	.5	SSF	1.4X	223	8
2002	JUL	6	0746	33.81	19	25.11	155	15.77	13.95	25	6	.12	.8	.3	DEPL	1.5X	151	3
2002	JUL	6	1133	45.15	19	20.68	155	12.97	8.66	38	7	.11	.4	.5	SF2	2.0X	65	4
2002	JUL	6	1735	34.65	19	25.34	155	19.56	7.97	23	6	.10	.5	.9	KAO	1.4X	126	3
2002	JUL	7	0455	18.83	19	15.86	155	13.18	8.29	34	9	.13	.6	.6	SF2	1.5X	246	10
2002	JUL	7	0713	59.06	19	29.51	155	28.32	7.51	23	6	.09	.3	1.0	KAO	1.4X	73	5
2002	JUL	7	0741	48.80	19	19.57	155	10.10	5.82	35	7	.12	.4	1.0	SF3	1.4X	95	6
2002	JUL	7	1047	10.07	19	30.30	154	58.81	46.39	4512	.11	.7	.8	LER	2.0X	124	10	
2002	JUL	7	1554	37.73	19	19.33	155	8.07	7.17	21	1	.09	.6	.8	SF4	1.6X	171	4
2002	JUL	7	1610	3.07	19	19.72	155	8.44	4.18	23	1	.09	.6	2.2	SSF	1.3X	109	4
2002	JUL	7	1956	37.72	19	59.87	155	35.86	6.85	19	5	.22	.9	1.4	KOH	1.8X	166	17
2002	JUL	7	2106	35.71	19	3.21	155	8.01	35.00	23	2	.10	2.0	3.1	LOI	1.6X	268	33
2002	JUL	7	2201	9.25	19	7.85	155	27.34	40.11	17	3	.08	1.8	3.2	DLS	1.8X	277	24
2002	JUL	8	0201	2.95	19	35.49	155	5.22	13.15	19	3	.10	.6	.8	HIL	1.5X	123	14
2002	JUL	8	0327	55.47	19	25.23	155	24.12	11.04	28	5	.11	.4	1.0	KAO	1.4X	61	8
2002	JUL	8	1118	18.56	19	19.43	155	10.35	4.90	25	2	.13	.6	3.6	SSF	1.6X	99	6
2002	JUL	8	1200	0.11	19	24.38	155	17.21	8.96	13	2	.09	1.1	.8	INTL	1.5X	63	1
2002	JUL	8	1508	5.56	19	25.85	155	28.25	9.84	20	4	.13	.5	1.1	KAO	1.1X	80	6
2002	JUL	8	2009	14.06	19	19.46	155	12.48	7.99	36	7	.10	.4	.5	SF2	1.8X	86	5
2002	JUL	8	2014	50.07	19	3.96	155	29.33	35.74	20	4	.06	1.2	1.3	DLS	1.5X	195	11
2002	JUL	8	2317	30.69	19	23.88	155	15.76	2.97	30	7	.10	.3	.2	SEC	2.0X	69	1
2002	JUL	9	0226	56.85	19	19.44	155	24.43	9.33	22	5	.09	.5	.5	SWR	1.1X	173	2
2002	JUL	9	0239	54.49	19	19.91	155	24.78	10.30	16	2	.08	.8	.6	SWR	1.1X	168	3
2002	JUL	9	0240	48.66	19	25.50	155	19.35	7.07	24	4	.09	.4	.9	KAO	1.7X	50	3
2002	JUL	9	0745	11.63	19	18.85	155	13.26	9.25	36	5	.12	.5	.5	SF2	2.0X	172	7
2002	JUL	9	0813	34.90	19	11.29	155	38.84	1.19	21	3	.14	.5	.8	LSW	1.9X	88	13
2002	JUL	9	1936	54.52	19	12.01	155	36.48	0.03	23	4	.14	.4	.3	LSW #	1.7X	88	16
2002	JUL	9	2148	18.75	19	18.24	155	15.41	6.03	29	6	.10	.4	1.1	SF1	1.3X	111	4
2002	JUL	9	2306	22.30	19	19.80	155	11.96	6.45	30	5	.11	.5	.9	SF3	1.6X	86	6
2002	JUL	10	0226	41.07	19	20.42	155	19.21	2.71	31	6	.10	.2	.6	SWR	1.6X	50	5
2002	JUL	10	0520	40.06	19	37.17	155	5.68	16.09	24	6	.09	1.2	1.9	HIL	1.6X	151	11
2002	JUL	10	1153	55.98	19	24.99	155	38.92	3.18	16	4	.09	.7	.6	MLO	1.7X	189	2
2002	JUL	10	1816	30.66	19	19.72	155	7.76	8.12	38	6	.10	.4	.6	SF4	2.0X	128	4
2002	JUL	10	2248	5.04	19	26.97	155	28.89	10.82	22	6	.10	.4	1.1	KAO	1.1X	78	8
2002	JUL	11	0005	59.05	19	20.29	155	8.49	6.57	23	6	.10	.6	1.0	SF4	1.2X	108	6
2002	JUL	11	0228	44.16	19	10.84	155	27.83	9.96	38	8	.13	.4	.6	LSW	1.9X	120	2
2002	JUL	11	0458	42.80	19	22.44	154	43.79	44.07	4711	.13	1.0	.9	LER	2.6X	284	16	
2002	JUL	11	1937	25.40	19	10.12	155	32.18	1.23	25	8	.12	.3	.4	LSW	1.6X	116	8
2002	JUL	12	0234	1.14	18	58.56	156	9.45	32.34	30	7	.10	1.1	2.8	DIS	2.3X	293	46

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUL	12	0245	49.90	19	30.06	155	14.11	10.16	27	5	.12	.5	.9	GLN	1.3X	122	6
2002	JUL	12	0820	48.88	19	9.61	155	36.43	0.53	31	8	.15	.4	.2	LSW	1.8X	108	15
2002	JUL	12	1330	19.36	19	24.10	155	37.68	2.55	16	3	.24	.6	.4	MLO	.9X	115	1
2002	JUL	12	1437	10.07	19	29.44	154	52.34	5.10	36	6	.12	.5	.8	LERF	2.3X	106	3
2002	JUL	12	1535	40.35	19	29.86	154	53.64	0.60	23	1	.12	.5	1.2	SLEF#	2.3X	117	5
2002	JUL	12	2049	15.13	19	49.84	155	47.52	11.02	20	5	.14	1.0	.7	HUA	1.4X	259	14
2002	JUL	13	0312	11.02	19	20.66	155	15.22	1.64	29	7	.08	.3	.4	KOA	1.8X	162	3
2002	JUL	13	0523	23.17	19	15.02	155	25.71	8.54	27	6	.10	.6	.7	LSW	1.2X	150	10
2002	JUL	13	0554	41.41	19	25.74	155	16.14	12.01	16	4	.12	1.0	.9	INTL	1.5X	190	3
2002	JUL	13	0615	56.62	19	58.48	155	6.47	35.33	4511		.10	.8	1.4	KEAF	2.9X	208	26
2002	JUL	13	0721	25.90	19	26.51	155	30.34	11.46	26	4	.11	.4	1.0	KAO	1.6X	68	9
2002	JUL	13	0846	42.28	19	46.33	155	24.94	28.97	25	5	.11	.6	1.3	KEA	1.5X	99	5
2002	JUL	13	1128	18.48	19	24.63	155	15.98	13.09	17	3	.12	1.5	.7	DEPL	1.1X	134	2
2002	JUL	13	1439	10.87	19	20.61	155	6.08	5.90	40	9	.11	.4	.6	SF4	1.8X	145	6
2002	JUL	13	1915	58.89	19	24.11	155	16.35	13.14	15	3	.13	1.5	.9	DEPL	1.6X	208	2
2002	JUL	13	2315	47.06	19	25.99	155	15.69	13.22	24	7	.12	1.0	.4	DEPL	1.3X	234	3
2002	JUL	14	0001	43.73	19	25.63	155	16.42	13.38	20	7	.12	.9	.4	DEPL	1.5X	219	2
2002	JUL	14	0135	8.47	19	24.46	155	16.86	19.80	21	6	.23	1.7	1.1	DEPL	2.0X	82	1
2002	JUL	14	0532	53.04	19	19.24	155	13.64	8.80	38	9	.11	.4	.4	SF2	1.7X	188	6
2002	JUL	14	0617	59.69	19	28.92	155	12.26	18.38	17	4	.11	1.3	1.4	DEP	1.8X	286	8
2002	JUL	14	0629	55.31	19	28.59	155	38.13	15.49	13		.10	1.1	.9	DMLT		113	4
2002	JUL	14	1310	36.41	19	21.81	155	4.50	5.51	18	1	.13	.7	2.0	SF5	1.4X	159	6
2002	JUL	14	2204	25.60	19	26.07	155	15.77	14.16	17	5	.12	1.1	.5	DEPL	1.3X	186	3
2002	JUL	14	2240	25.42	19	30.09	155	27.95	5.49	22	5	.09	.3	1.3	MLO	1.2X	86	4
2002	JUL	15	0102	13.52	19	16.48	155	28.65	5.76	31	5	.11	.4	1.6	LSW	1.5X	122	11
2002	JUL	15	0135	58.53	19	15.46	155	32.14	0.74	28	7	.17	.4	.4	LSW	1.4X	77	13
2002	JUL	15	0627	30.61	19	9.16	155	37.42	0.55	34	9	.14	.4	.3	LSW	1.8X	107	15
2002	JUL	15	1606	22.10	19	34.01	155	42.14	10.57	49	9	.11	.3	.4	MLO	2.8X	61	9
2002	JUL	15	1815	15.57	19	23.30	155	15.11	3.36	20	5	.09	.3	.4	SEC	1.7X	75	2
2002	JUL	15	1922	1.65	19	2.96	155	22.22	44.50	24	6	.10	1.3	1.5	LOI	1.6X	240	16
2002	JUL	15	2159	55.85	18	58.49	155	25.05	14.58	14	2	.10	7.41	1.5	DLS -	1.4X	325	40
2002	JUL	15	2307	28.99	19	27.42	155	35.55	8.28	16	2	.12	.8	.8	MLOT		80	1
2002	JUL	16	0041	50.79	19	21.01	155	3.79	7.33	25	3	.11	1.1	.6	SF5	1.3X	222	8
2002	JUL	16	0400	16.91	19	26.21	155	24.04	9.99	22	6	.10	.4	1.1	KAO	1.1X	66	7
2002	JUL	16	0736	0.17	20	3.76	155	34.23	41.98	25	4	.10	1.0	1.3	KOH	1.7X	273	24
2002	JUL	16	0758	25.40	19	24.44	155	16.87	1.54	27	7	.10	.2	.1	SSC	2.0X	81	1
2002	JUL	16	0800	56.14	19	10.42	155	28.59	29.78	43	9	.08	.5	1.0	DLS	2.1X	81	2
2002	JUL	16	0917	42.34	19	20.73	155	4.72	2.37	24	5	.18	.5	1.0	SSF	1.3X	171	7
2002	JUL	16	2045	59.34	19	55.08	155	32.31	15.75	30	9	.10	1.1	1.0	KEA	1.7X	214	14
2002	JUL	17	0022	6.29	19	21.83	155	27.36	10.11	24	4	.10	.5	.7	KAO	1.1X	123	1
2002	JUL	17	0313	21.79	19	26.25	155	30.70	11.88	22	6	.10	.4	.6	KAO	1.3X	96	5
2002	JUL	17	0511	39.04	19	27.03	155	28.74	8.83	20	5	.09	.4	1.4	KAO	1.1X	77	8
2002	JUL	17	1017	33.02	19	20.86	155	29.59	5.57	42	9	.09	.4	.9	KAO	2.2X	63	5
2002	JUL	17	1030	23.65	19	16.46	155	23.41	2.28	17	3	.13	.5	.9	SWR	1.0X	110	4
2002	JUL	17	1907	32.52	19	19.55	155	4.74	6.23	28	8	.10	.7	1.1	SF5	1.5X	210	9

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUL	18	0248	3.44	19	28.25	155	19.84	7.94	16	4	.06	.7	1.1	KAO	1.1X	145	6
2002	JUL	18	0416	35.22	19	8.01	155	22.45	38.66	29	6	.12	1.0	1.4	LOI	1.6X	250	10
2002	JUL	18	2001	22.15	19	20.51	155	16.31	36.74	25	5	.11	1.0	1.1	DEP	1.5X	194	4
2002	JUL	18	2019	58.84	19	25.62	155	26.64	6.42	3210		.13	.3	1.3	KAO	1.3X	55	6
2002	JUL	18	2210	5.68	19	55.82	155	31.15	23.82	20	6	.11	.9	1.8	KEA	1.4X	231	18
2002	JUL	18	2233	33.83	19	25.88	155	28.84	11.19	16	4	.08	.5	1.4	KAO	2.7X	108	7
2002	JUL	19	0153	14.38	19	24.78	155	19.62	4.59	17	5	.11	.4	.8	KAO	.8X	105	2
2002	JUL	19	0207	16.35	19	25.38	155	19.27	5.40	28	6	.12	.4	.9	KAO	1.4X	64	3
2002	JUL	19	0224	50.98	19	26.20	155	29.06	10.06	26	7	.11	.4	1.0	KAO	1.1X	87	7
2002	JUL	19	0433	57.58	19	19.25	155	5.21	5.97	31	7	.12	.8	.9	SF5	1.8X	228	9
2002	JUL	19	0724	35.31	19	14.33	155	35.26	1.02	37	8	.18	.3	.5	LSW	1.9X	84	16
2002	JUL	19	1922	24.51	19	56.23	155	31.64	32.87	23	8	.11	.7	1.2	KEA	1.5X	159	16
2002	JUL	20	0726	41.04	19	4.26	155	24.93	31.34	4713		.10	.7	1.1	LOI	2.1X	196	11
2002	JUL	20	0729	46.27	19	4.30	155	25.00	31.99	4914		.09	.7	1.0	LOI	2.4X	199	11
2002	JUL	20	0758	13.97	19	21.67	155	14.17	11.56	26	6	.09	.5	.7	SF2	1.4X	58	3
2002	JUL	20	1506	0.78	19	27.79	155	24.10	11.60	26	7	.10	.5	1.0	KAO	1.3X	91	4
2002	JUL	20	2116	6.38	19	29.02	155	50.68	4.45	22	5	.16	.8	5.6	KON	1.3X	194	9
2002	JUL	20	2245	21.88	19	26.00	155	16.20	1.31	14	3	.09	.3	.5	SNC	1.1X	140	2
2002	JUL	21	0221	25.36	19	23.18	155	30.23	10.99	32	9	.12	.4	.5	KAO	1.4X	57	5
2002	JUL	21	0320	17.84	19	21.33	155	52.87	11.74	13	2	.08	1.9	.7	KON	1.7X	303	21
2002	JUL	21	0430	15.21	19	14.28	155	27.84	1.41	22	5	.14	.5	.9	LSW	1.7X	117	9
2002	JUL	21	0639	37.96	19	56.88	155	36.24	38.33	23	5	.09	.9	1.7	KOH	1.8X	145	11
2002	JUL	21	0715	54.86	19	20.04	155	9.09	7.10	27	4	.11	.5	.9	SF4	1.7X	95	5
2002	JUL	21	0916	2.68	19	22.11	155	4.86	6.46	37	5	.15	.5	.9	SF5	1.8X	145	5
2002	JUL	21	1126	49.19	19	27.81	155	21.03	0.60	33	7	.12	.3	.4	KAO	1.9X	51	5
2002	JUL	21	1217	21.83	19	30.07	155	26.68	7.12	14	4	.07	.5	1.1	MLO	1.2X	114	4
2002	JUL	21	1252	35.95	19	17.09	155	29.09	7.21	45	7	.12	.4	.7	LSW	2.5X	73	10
2002	JUL	21	1258	22.36	19	28.81	155	20.64	1.13	18	4	.12	.6	.7	KAO	1.4X	151	5
2002	JUL	21	1445	35.59	19	19.96	155	8.03	8.56	46	9	.11	.4	.5	SF4	3.0X	114	5
2002	JUL	21	1731	24.56	19	18.58	155	13.69	9.40	5112		.12	.4	.3	SF2F	3.3X	70	3
2002	JUL	21	1806	4.06	19	19.22	155	13.19	7.87	39	9	.12	.4	.5	SF2	1.8X	126	6
2002	JUL	22	0437	7.25	19	45.96	156	8.84	39.91	19	4	.09	1.8	2.6	HUA	1.6X	315	34
2002	JUL	22	1152	9.49	19	20.38	155	11.20	8.63	34	9	.09	.5	.6	SF3	1.5X	79	5
2002	JUL	22	1459	47.12	19	23.86	155	26.54	10.15	31	6	.08	.4	.7	KAO	1.3X	53	3
2002	JUL	22	1645	20.67	20	1.27	155	23.00	11.00	14	4	.10	1.1	.6	KEA	1.2X	254	15
2002	JUL	22	1719	57.45	19	7.50	155	28.38	26.85	4310		.10	.8	1.1	DLS	2.0X	213	4
2002	JUL	22	2320	37.65	19	13.04	155	33.40	0.33	3911		.14	.3	.2	LSW	1.9X	81	12
2002	JUL	23	0011	12.44	19	30.57	155	43.07	1.39	25	7	.14	.4	.6	KON	1.6X	82	5
2002	JUL	23	0500	53.35	19	16.66	155	29.86	0.12	31	8	.12	.3	.2	LSW	1.4X	96	11
2002	JUL	23	0603	19.34	19	27.12	155	27.97	10.23	27	7	.11	.4	.8	KAO	1.6X	69	9
2002	JUL	23	1004	54.02	19	9.74	155	16.43	42.87	26	2	.13	2.3	3.3	LOI	1.9X	198	14
2002	JUL	23	1050	7.80	19	20.15	155	13.08	5.93	21	1	.12	.6	1.0	SF2	1.4X	119	5
2002	JUL	23	2103	34.20	19	18.94	155	11.15	3.66	21	1	.11	1.3	3.3	SSF	1.4X	239	8
2002	JUL	23	2243	28.12	19	18.36	155	10.39	4.03	22	1	.10	1.4	6.1	SSF	1.4X	250	9
2002	JUL	23	2254	15.62	19	22.60	154	57.64	0.19	10	3	.13	.8	.6	SLE	1.6X	224	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JUL	24	0408	7.97	19	25.34	155	19.25	8.49	24	6	.10	.7	.9	KAO	1.7X	106	3
2002	JUL	24	0749	12.33	20	2.08	155	21.04	9.37	27	6	.21	1.3	.8	KEA #	1.8X	245	16
2002	JUL	24	0926	46.30	18	55.35	155	12.90	0.50	27	6	.12	1.5	.5	LOI	2.0X	246	37
2002	JUL	24	1740	31.41	19	23.19	155	2.55	8.41	29	2	.13	.9	.6	SF5	1.7X	179	8
2002	JUL	24	1825	0.18	19	18.17	154	58.87	41.54	44	8	.09	.8	.7	LER	2.5X	215	13
2002	JUL	24	2045	21.61	19	35.90	156	0.67	10.49	3110		.14	.9	.5	KON	2.0X	259	21
2002	JUL	25	0314	51.28	19	23.40	155	30.06	10.27	19	2	.06	.4	.7	KAO	1.3X	143	5
2002	JUL	25	0725	23.97	19	18.00	155	30.07	0.03	28	3	.15	.4	.6	LSW #	1.4X	74	9
2002	JUL	25	1134	56.12	20	1.66	155	22.07	6.08	24	6	.17	.8	.9	KEA	2.0X	210	15
2002	JUL	25	1137	8.17	20	1.65	155	21.54	9.06	2910		.14	.7	.6	KEA	2.2X	180	13
2002	JUL	25	1137	44.53	20	1.66	155	21.29	7.06	29	9	.13	.6	.5	KEA	2.3X	181	12
2002	JUL	25	1640	2.54	19	47.80	155	36.24	15.30	4513		.10	.4	.5	KEA	2.3X	95	9
2002	JUL	25	1813	35.10	19	45.59	155	36.20	4.78	17	5	.18	.8	9.2	KEA #	1.3X	109	13
2002	JUL	25	1833	55.93	19	28.80	154	52.84	5.41	28	3	.12	.8	.8	LERF	2.3X	106	4
2002	JUL	25	1914	7.91	19	12.83	155	24.95	35.08	3611		.11	.7	1.1	DEP	1.8X	163	8
2002	JUL	25	1931	11.81	19	19.51	155	9.35	2.38	24	6	.12	.9	1.1	SSF	1.2X	214	8
2002	JUL	25	2030	46.71	19	47.57	155	36.03	14.88	20	3	.09	.5	.6	KEA	1.5X	108	10
2002	JUL	26	0242	42.61	20	1.92	155	21.65	9.49	26	9	.14	.7	.5	KEA	2.0X	183	13
2002	JUL	26	0701	34.55	19	24.49	155	25.56	9.95	4612		.12	.3	.7	KAO	2.3X	30	5
2002	JUL	26	0854	35.32	19	20.13	155	10.85	7.21	25	3	.09	.5	.8	SF3	1.6X	84	6
2002	JUL	26	0854	42.36	19	20.18	155	11.02	7.06	37	8	.12	.4	.7	SF3	2.0X	83	7
2002	JUL	26	0956	31.22	19	19.91	155	11.00	6.60	31	5	.09	.5	.8	SF3	1.6X	89	6
2002	JUL	26	1006	2.23	19	20.00	155	10.73	8.09	34	6	.10	.4	.6	SF3	1.8X	87	6
2002	JUL	26	1139	25.33	19	20.84	155	6.12	6.55	19	3	.11	.6	1.3	SF4	1.3X	149	5
2002	JUL	26	1807	47.05	19	18.89	155	51.03	11.67	31	7	.11	.9	.4	KON	1.9X	225	20
2002	JUL	27	0316	1.28	19	27.12	155	10.72	13.60	14	4	.14	1.7	.6	DEP	1.3X	289	10
2002	JUL	27	0628	31.45	19	16.95	155	28.42	11.56	21	4	.11	.8	1.2	LSW	1.4X	210	10
2002	JUL	27	0758	19.07	19	26.85	155	17.96	6.48	15	5	.06	.5	.8	INT	1.3X	102	3
2002	JUL	27	1228	4.32	19	18.92	155	14.90	6.78	37	6	.10	.4	.6	SF1	1.6X	89	4
2002	JUL	27	1647	49.90	19	19.19	155	9.83	7.36	27	3	.09	.4	.7	SF3	2.0X	103	5
2002	JUL	27	1832	3.26	19	29.68	155	44.84	6.55	26	7	.16	.6	1.1	KON	2.0X	129	2
2002	JUL	27	2108	32.64	19	24.91	155	20.12	7.31	21	5	.09	.5	.9	KAO	1.3X	52	2
2002	JUL	28	0142	33.43	19	17.54	155	29.48	7.52	21		.14	.5	1.8	LSW	1.5X	100	10
2002	JUL	28	0145	49.15	19	20.21	155	4.35	8.02	28	5	.13	1.0	.7	SF5	2.0X	224	8
2002	JUL	28	0442	16.09	19	18.58	155	13.60	9.38	4813		.11	.5	.3	SF2	2.5X	165	8
2002	JUL	28	1129	14.44	19	22.90	155	1.19	1.59	34	6	.14	.6	.7	SSF	1.7X	179	6
2002	JUL	28	1531	46.83	19	28.33	155	20.67	0.57	23	5	.11	.4	.4	KAO	1.2X	143	5
2002	JUL	28	1646	8.35	19	21.47	155	8.11	7.82	40	8	.12	.5	.6	SF4	1.8X	162	3
2002	JUL	28	2134	18.32	19	23.95	155	25.92	9.37	4010		.11	.4	.7	KAO	1.8X	47	4
2002	JUL	29	0002	47.78	19	57.23	155	23.37	8.15	17	4	.13	.9	.8	KEA	1.0X	255	9
2002	JUL	29	0025	42.61	19	18.97	155	27.76	10.01	15		.11	.7	1.9	LSWT	1.8X	108	7
2002	JUL	29	0211	17.62	19	14.94	155	24.93	7.05	25	4	.09	.6	.9	SWR	1.0X	160	10
2002	JUL	29	0219	30.17	18	52.03	155	9.18	41.64	26	5	.10	1.4	2.3	LOI	1.9X	268	46
2002	JUL	29	0250	9.17	19	10.57	155	23.91	43.73	35	9	.14	.9	1.1	DEP	1.8X	223	7
2002	JUL	29	0907	22.25	19	12.59	155	28.30	33.27	11		.15	4.0	9.6	DLST	1.6X	137	6
2002	JUL	29	1227	27.60	19	58.41	155	21.75	10.64	18	6	.15	.8	.5	KEA	1.5X	146	9
2002	JUL	29	1625	4.73	19	32.33	155	59.07	5.62	16	2	.11	1.9	.9	KON	1.5X	320	23
2002	JUL	29	1657	12.23	19	19.52	155	9.28	7.64	31	2	.11	.7	.8	SF3	1.9X	178	9
2002	JUL	29	1753	32.97	19	18.79	155	3.75	3.04	17		.11	1.8	14.4	SSF -	1.5X	239	11
2002	JUL	29	2357	10.64	19	25.41	155	15.55	10.67	22	6	.18	.9	.8	INTL	1.4X	146	3
2002	JUL	30	0245	20.38	19	25.35	155	26.86	6.28	19	4	.13	.4	1.7	KAO	1.0X	58	5
2002	JUL	30	0303	27.53	19	19.48	155	5.68	6.52	23	3	.12	1.2	.9	SF4	1.3X	295	8
2002	JUL	30	0336	40.55	19	24.34	155	29.30	10.02	40	9	.09	.3	.6	KAO	1.7X	35	4
2002	JUL	30	0555	2.39	19	9.99	155	37.50	1.94	38	9	.13	.3	.6	LSW	2.1X	99	15
2002	JUL	30	1526	33.08	18	55.09	155	13.17	10.85	17	2	.13	1.5	.9	LOI	2.1X	255	37
2002	JUL	30	1624	44.87	19	19.46	155	8.94	6.22	20	2	.10	.7	1.9	SF4	1.7X	138	4
2002	JUL	30	1952	25.26	20	1.98	155	21.51	9.85	32	6	.14	.7	.4	KEAF	2.2X	184	13
2002	JUL	30	1954	21.74	20	1.55	155	21.42	7.56	17	4	.11	.7	.9	KEA	1.9X	180	12
2002	JUL	30	2102	59.47	19	25.90	156	6.29	44.49	28	7	.10	1.1	2.0	KON	2.1X	246	37
2002	JUL	30	2144	54.80	19	16.53	155	32.17	6.25	16	3	.15	1.2	3.5	LSW	1.3X	235	14
2002	JUL	30	2229	45.82	20	2.07	155	21.76	8.21	23	6	.20	.9	.8	KEA	1.5X	184	13
2002	JUL	31	1040	44.30	18	51.46	155	11.11	6.74	20	6	.12	1.1	.8	LOI	1.8X	289	44
2002	JUL	31	1513	51.61	19	29.38	156	0.08	4.45	35	8	.17	.9	.7	KON	2.3X	250	25
2002	JUL	31	1542	56.51	20	14.63	155	41.35	34.87	27	7	.10	.9	.9	KOH #	1.9X	190	16
2002	JUL	31	1816	32.78	19	55.36	155	18.28	16.72	3810		.11	.6	.8	KEA	2.0X	103	5
2002	AUG	1	0448	4.94	19	28.95	155	27.94	10.22	35	9	.11	.3	.8	KAO	1.3X	64	6
2002	AUG	1	0733	32.08	19	23.08	155	17.10	2.19	17	5	.09	.3	.2	SSC	1.4X	58	1
2002	AUG	2	0355	40.81	19	9.67	155	25.80	36.05	21	6	.10	1.1	1.1	DLS	1.7X	253	4
2002	AUG	2	0426	14.48	19	36.79	155	54.81	27.14	21	5	.12	1.3	1.6	KON	1.1X	241	11
2002	AUG	2	0816	13.64	19	16.38	155	27.42	7.38	22	3	.12	.4	1.0	LSW	1.2X	109	10
2002	AUG	2	0829	23.43	19	17.80	155	14.38	4.82	31	8	.10	.4	1.2	SSF	1.3X	107	2
2002	AUG	2	0937	59.30	19	23.67	155	14.69	27.25	2810		.09	1.0	.9	DEP	1.2X	75	2
2002	AUG	2	1102	37.69	19	19.44	155	10.63	3.07	29	6	.12	.4	1.4	SSF	1.4X	100	6
2002	AUG	2	1401	0.16	19	20.09	155	12.19	5.54	29	5	.11	.5	1.2	SF3	1.5X	149	5
2002	AUG	2	2025	45.11	19	50.03	155	53.67	0.05	23	6	.11	.7	.3	HUA #	1.5X	166	17
2002	AUG	2	2046	29.30	18	54.53	155	15.95	28.46	17	6	.10	2.0	5.6	LOI	2.2X	308	35
2002	AUG	3	0004	42.07	19	19.04	155	13.29	8.76	39	7	.10	.4	.3	SF2	1.7X	168	7
2002	AUG	3	0133	25.24	19	12.64	155	30.80	5.93	33	3	.16	.5	1.2	LSW	2.2X	75	8
2002	AUG	3	0451	44.68	20	56.01	155	54.72	8.75	29	6	.13	.8	1.0	DIS	2.4X	262	44
2002	AUG	3	0526	30.34	19	21.01	155	8.01	8.85	40	9	.10	.6	.4	SF4	1.7X	115	4
2002	AUG	3	0859	33.28	19	20.20	155	30.20	12.12	4210		.09	.3	.6	KAO	2.1X	67	6
2002	AUG	3	1120	50.73	19	19.45	155	30.04	14.57	20	5	.12	.6	1.1	DML	1.2X	105	7
2002	AUG	3	1156	27.15	20	9.58	155	36.71	27.77	18	2	.09	1.0	1.7	KOH	1.7X	164	18
2002	AUG	3	1208	47.14	19	19.10	155	4.03	7.25	15	5	.06	1.1	2.0	SF5	1.2X	236	10
2002	AUG	3	1432	31.88	19	15.15	155	2.16	40.71	34	4	.11	1.2	1.2	DEP	1.8X	240	11
2002	AUG	3	1710	44.12	19	21.41	155	4.41	5.59	25	3	.12	.9	1.2	SF5	1.4X	164	7
2002	AUG	4	0215	23.67	19	19.33	155	11.72	6.24	3911		.14	.5	.8	SF3	1.7X	189	7
2002	AUG	4	0658	50.43	19	12.72	155	27.05	0.04	23	7	.14	.5	.3	LSW #	1.2X	147	6
2002	AUG	4	0709	16.95	19	28.86	155	28.03	7.15	29	7	.10	.3	1.1	KAO	1.3X	62	6
2002	AUG	4	0819	33.92	19	40.14	156	5.23	11.11	19	2	.11	2.3	.9	HUAF	2.0X	296	26

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	4	1355	53.12	19	9.26	155	33.06	34.04	32	9	.07	.6	1.3	DLS	1.9X	126	9
2002	AUG	4	1450	22.05	19	23.83	155	29.64	8.56	36	9	.10	.3	.7	KAO	1.8X	49	4
2002	AUG	4	1533	11.07	19	28.58	155	20.83	1.27	4111		.10	.3	.3	KAO	2.3X	106	5
2002	AUG	5	0004	53.26	19	26.76	155	19.58	5.75	17	4	.11	.7	1.6	KAO	1.3X	112	4
2002	AUG	5	0133	57.21	19	18.68	155	31.23	6.49	17		.14	.5	1.6	LSW	1.5X	82	9
2002	AUG	5	0337	39.22	19	26.13	155	18.32	7.54	19	4	.12	.6	.9	INT	1.6X	67	2
2002	AUG	5	0841	38.58	19	38.29	155	47.70	11.17	15	1	.08	1.2	1.2	KON	1.5X	154	7
2002	AUG	5	0958	0.58	19	17.79	155	5.02	1.93	22	3	.08	2.2	1.8	SSF	1.7X	270	11
2002	AUG	5	2031	30.47	19	20.18	155	11.84	7.87	33	7	.12	.8	.6	SF3	1.7X	203	5
2002	AUG	5	2048	41.69	19	25.16	155	19.46	7.97	25	7	.12	.5	1.0	KAO	1.6X	60	3
2002	AUG	5	2123	34.79	19	49.30	155	47.68	21.83	19	5	.12	1.2	1.8	HUA	1.4X	259	15
2002	AUG	6	0023	21.75	19	22.00	155	2.46	6.91	26	6	.15	1.3	.9	SF5	1.4X	217	9
2002	AUG	6	0426	49.36	19	33.71	155	21.36	11.67	4210		.13	.4	.7	MLO	2.2X	63	8
2002	AUG	6	0544	55.33	19	22.08	155	28.84	10.63	4711		.10	.3	.4	KAO	2.5X	62	2
2002	AUG	6	1329	18.53	19	19.94	155	7.04	7.89	32	6	.12	.6	.5	SF4	1.5X	187	6
2002	AUG	6	1443	32.17	19	19.89	155	8.29	6.16	3610		.12	.4	.8	SF4	1.7X	112	5
2002	AUG	6	2317	27.56	19	18.61	155	12.54	4.60	23	6	.09	.6	3.3	SSF	1.6X	201	7
2002	AUG	7	0103	38.65	19	43.41	155	58.79	14.43	18	5	.12	1.5	.5	HUA	1.7X	249	15
2002	AUG	7	0344	3.88	19	19.25	155	6.25	6.79	27	7	.09	.7	.7	SF4	1.5X	224	8
2002	AUG	8	1743	46.81	19	27.69	155	28.25	25.65	25	7	.12	.7	1.2	DML	1.9X	66	8
2002	AUG	8	2123	4.01	19	53.30	155	8.30	14.86	19	4	.16	2.3	1.6	KEA	1.5X	239	21
2002	AUG	9	0028	24.08	19	19.12	155	11.55	4.11	26	7	.12	.7	2.6	SSF	1.4X	234	7
2002	AUG	9	0100	1.52	19	12.19	155	28.32	0.03	23	5	.16	.4	.3	LSW #	1.4X	121	5
2002	AUG	9	0124	29.87	19	19.28	155	8.44	6.53	3912		.10	.6	1.0	SF4	1.8X	186	8
2002	AUG	9	0334	10.27	19	13.33	155	29.82	48.36	17	1	.10	1.1	2.6	DLST	2.3X	99	8
2002	AUG	9	0447	19.19	19	11.53	155	28.28	4.31	19	5	.13	1.2	3.1	LSW	1.3X	143	4
2002	AUG	9	0629	51.04	19	27.53	155	28.47	10.96	3410		.11	.4	.9	KAO	1.6X	56	8
2002	AUG	9	0750	45.13	19	15.57	155	27.29	9.61	4911		.14	.4	.5	LSW	2.6X	103	11
2002	AUG	9	0855	22.80	19	31.84	155	52.50	8.86	21	5	.12	1.3	.7	KON	1.5X	307	12
2002	AUG	9	1244	21.78	19	52.95	156	47.80	1.95	27	8	.14	3.0	1.3	DIS	2.4X	265	103
2002	AUG	9	1323	51.62	19	58.03	155	28.64	1.84	17	6	.09	.5	.6	KEA	1.3X	181	16
2002	AUG	9	1515	21.66	19	12.98	155	27.25	35.23	31	7	.08	.8	1.4	DLS	1.5X	118	7
2002	AUG	9	1718	21.11	20	0.59	155	21.85	7.77	5010		.14	.5	.5	KEAF	3.3X	148	13
2002	AUG	9	2135	6.21	19	21.67	155	2.59	8.32	31	9	.15	.8	.6	SF5	1.4X	213	9
2002	AUG	9	2232	19.61	19	19.48	155	12.29	8.76	40	6	.11	.5	.4	SF3	1.8X	169	6
2002	AUG	9	2235	53.30	19	14.58	155	4.11	39.82	19	6	.12	2.3	1.8	DEP	1.6X	257	22
2002	AUG	9	2301	23.91	19	21.61	155	25.42	11.32	29	6	.11	.6	.5	KAO	1.2X	113	4
2002	AUG	10	0023	2.03	19	25.00	155	8.37	39.72	31	7	.09	.8	.9	DEP	1.6X	85	3
2002	AUG	10	0037	17.48	19	26.30	154	55.55	5.65	21	4	.14	1.0	.9	LER	1.3X	175	6
2002	AUG	10	0158	1.59	19	20.14	155	11.15	7.42	35	7	.14	.6	.7	SF3	1.6X	170	6
2002	AUG	10	0351	3.68	19	43.40	156	10.72	10.45	37	8	.16	1.1	2.0	HUA	2.0X	203	49
2002	AUG	10	0529	9.36	19	52.73	155	35.80	21.10	23	5	.08	.6	1.2	KEA	1.5X	121	7
2002	AUG	10	0529	46.00	19	12.55	155	29.13	38.93	29	8	.09	.7	1.2	DLS	1.7X	107	6
2002	AUG	10	0545	2.16	19	49.78	155	47.15	36.90	23	7	.10	.8	1.2	HUA	1.4X	235	14
2002	AUG	10	0547	54.54	19	13.29	155	29.21	37.87	4212		.07	.5	.9	DLS	2.1X	94	7

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	10	1107	16.94	19	26.39	155	25.13	9.26	42	9	.11	.4	.8	KAO	2.2X	46	7
2002	AUG	10	1448	41.91	19	49.45	155	34.18	24.97	26	8	.10	.7	1.1	KEA	1.6X	105	10
2002	AUG	10	1524	34.70	19	26.20	154	57.23	1.12	19	6	.12	.9	.5	SLE	1.5X	156	3
2002	AUG	10	1651	40.21	19	21.58	155	4.91	6.07	21	5	.14	.7	1.6	SF5	1.2X	157	6
2002	AUG	10	2331	29.64	19	18.19	155	11.16	5.54	27	5	.13	.8	1.9	SF3	1.3X	245	9
2002	AUG	11	0421	20.39	20	21.65	156	28.79	0.47	24	5	.14	1.7	.4	DIS	2.0X	222	41
2002	AUG	11	2157	5.04	19	19.82	154	59.33	38.25	36	9	.12	1.4	.9	LER	1.7X	226	10
2002	AUG	11	2209	43.69	19	24.38	155	19.59	5.84	22	5	.09	.4	.8	KAO	1.1X	70	1
2002	AUG	11	2333	25.46	20	2.20	155	20.75	6.56	28	7	.11	.7	.8	KEA	1.5X	215	31
2002	AUG	12	0201	38.85	19	16.35	155	28.05	6.49	29	7	.12	.4	1.4	LSW	1.2X	117	11
2002	AUG	12	0558	52.45	19	41.14	156	11.31	11.38	3611		.13	.9	1.1	HUA	2.2X	206	37
2002	AUG	12	1100	21.95	20	0.37	155	23.35	6.51	17	4	.21	1.3	1.8	KEA	1.2X	230	14
2002	AUG	12	1529	3.38	19	25.32	155	15.02	14.56	19	5	.14	1.2	.4	DEPL	1.5X	246	5
2002	AUG	12	1617	4.29	19	29.25	155	25.04	8.19	16	5	.11	.6	1.2	KAO	1.6X	99	3
2002	AUG	12	2032	2.98	19	43.22	155	24.83	42.23	21	6	.07	.8	1.0	KEA	2.0X	152	15
2002	AUG	13	0138	16.61	20	1.09	155	23.07	5.67	20	5	.12	.7	.7	KEA	1.4U	236	15
2002	AUG	13	0745	19.47	19	9.96	155	36.00	5.69	38	6	.14	.4	1.4	LSW	2.1X	106	14
2002	AUG	13	0919	59.78	19	22.34	155	30.29	10.81	28	6	.07	.4	.9	KAO	2.0X	154	5
2002	AUG	13	1718	48.17	19	20.56	155	13.29	5.94	3912		.11	.3	.7	SF2	1.3X	61	4
2002	AUG	13	1824	19.17	19	31.08	155	53.21	10.20	20	3	.12	1.0	.6	KON	1.3X	213	13
2002	AUG	13	1838	38.22	19	24.08	155	15.25	13.97	19	5	.15	1.2	.4	DEPL	1.5X	221	2
2002	AUG	13	1938	40.58	19	23.52	154	56.43	0.89	16	4	.17	.8	.6	SLE	1.5X	212	5
2002	AUG	13	2032	51.48	19	29.94	155	26.76	9.41	28	7	.11	.4	.8	KAO	1.3X	79	4
2002	AUG	13	2036	22.20	19	20.35	155	10.85	7.65	3913		.12	.8	.5	SF3	1.7X	203	6
2002	AUG	13	2121	48.20	19	33.02	155	27.69	23.23	21	5	.07	.5	.8	DML	1.5X	98	2
2002	AUG	13	2137	27.71	20	32.72	155	16.51	12.66	5114		.15	1.1	2.2	DISF	3.5X	237	61
2002	AUG	13	2303	54.31	19	25.71	155	15.38	15.33	20	6	.13	1.1	.4	DEPL	1.5X	217	4
2002	AUG	14	0744	56.73	20	1.48	155	42.64	9.11	18	4	.11	.7	.9	KOH	1.3X	143	14
2002	AUG	14	0916	35.76	19	10.74	155	27.95	32.80	23	5	.07	1.4	1.1	DLS	1.4X	264	19
2002	AUG	14	1030	56.21	19	18.80	155	8.36	3.56	20	1	.09	1.0	1.5	SSF	1.3X	110	3
2002	AUG	14	1102	2.70	19	20.41	155	9.03	6.60	30	8	.12	.4	.9	SF4	1.3X	97	6
2002	AUG	14	1124	20.68	18	58.68	155	11.73	30.86	6	1	.07	3.1	5.7	LOI	2.6X	280	35
2002	AUG	14	1201	52.19	19	46.53	155	45.49	15.21	20	5	.15	.8	.6	HUA	1.4X	121	13
2002	AUG	15	0029	12.75	19	24.84	155	15.51	14.50	21	6	.11	.8	.4	DEPL	1.3X	118	2
2002	AUG	15	0224	57.45	19	23.03	155	14.20	3.48	17	6	.11	.5	.4	SEC	1.5X	138	2
2002	AUG	15	0613	14.49	19	56.16	155	23.10	9.11	17	5	.14	.9	.8	KEA	.9X	201	7
2002	AUG	15	0723	40.07	19	30.40	155	26.90	6.76	19	5	.08	.4	1.2	MLO	1.2X	100	3
2002	AUG	15	0806	49.06	21	24.61	157	36.63	6.75	4913		.11	2.6	3.0	DISF	3.9X	221	42
2002	AUG	15	1423	41.55	19	8.69	155	19.23	30.57	33	9	.09	.8	1.2	LOI	1.5X	211	13
2002	AUG	15	1444	54.01	19	49.29	156	12.46	9.26	35	8	.12	.7	.9	HUA	2.3X	202	41
2002	AUG	15	1616	14.69	19	1.74	155	19.53	37.40	3611		.09	.9	1.2	LOI	1.7X	247	20
2002	AUG	15	2302	56.55	19	29.14	155	35.34	2.37	14	4	.06	.4	.2	MLO	1.4X	82	1
2002	AUG	16	0053	38.36	19	31.74	155	54.76	11.45	16	5	.09	1.1	.5	KON	1.0X	257	16
2002	AUG	16	0056	56.44	19	21.28	155	23.99	9.20	4312		.10	.4	.5	SWR	1.5X	50	2
2002	AUG	16	0223	32.14	20	1.53	155	22.07	5.14	25	8	.20	1.4	1.1	KEA	1.3X	245	15

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	16	0801	39.79	19	23.05	155	32.78	7.75	16	4	.07	.5	.9	MLO	1.1X	150	3
2002	AUG	16	0827	48.58	20	6.43	155	44.18	13.45	27	3	.12	1.2	.9	KOH	1.9X	182	5
2002	AUG	17	0102	58.94	19	10.14	155	16.05	43.57	3712		.10	.9	1.0	DEP	2.0X	213	21
2002	AUG	17	0105	1.04	19	10.65	155	16.37	44.07	4015		.09	.8	.9	DEP	2.1X	210	20
2002	AUG	17	0106	12.27	19	10.44	155	16.44	45.99	24	7	.11	1.5	1.2	DEP	1.9X	297	22
2002	AUG	17	0107	21.73	19	9.50	155	16.21	46.02	4014		.08	.6	.8	LOI	1.8X	199	20
2002	AUG	17	0500	39.62	19	24.46	155	16.20	1.40	16	5	.14	.3	.4	SEC	1.0X	89	1
2002	AUG	17	1226	29.41	19	59.25	155	21.23	9.14	30	7	.15	1.0	.5	KEA	1.6X	245	11
2002	AUG	17	2027	5.40	19	16.44	155	15.64	8.07	35	8	.11	.6	.5	SF1	1.9X	209	6
2002	AUG	18	0052	35.83	19	26.02	155	29.03	9.03	3110		.11	.3	.9	KAO	1.2X	65	7
2002	AUG	18	0720	33.58	19	24.37	155	16.30	14.26	21	5	.11	.9	.4	DEP	1.5X	175	3
2002	AUG	18	0855	10.92	19	3.74	155	22.82	50.22	22	4	.10	1.1	1.1	LOI	1.6X	252	14
2002	AUG	18	0954	43.05	19	24.78	155	20.03	4.98	17	6	.08	.4	.8	KAO	1.0X	77	2
2002	AUG	18	1603	55.01	19	5.59	155	29.78	29.16	27	7	.08	.7	1.5	DLS	1.6X	183	8
2002	AUG	18	1740	40.15	19	17.71	155	16.84	28.96	26	9	.11	.8	1.1	DEP	1.4X	128	3
2002	AUG	18	2042	58.39	19	8.43	155	25.88	40.58	19	6	.13	1.5	2.2	DLST	2.0X	281	22
2002	AUG	18	2230	52.89	20	1.52	155	21.08	7.21	3411		.11	.6	.6	KEA	2.0X	211	29
2002	AUG	19	0721	7.07	19	59.48	155	38.19	1.49	15	4	.11	.5	.6	KOH	1.5X	154	21
2002	AUG	19	0843	19.32	19	22.11	154	54.48	7.41	29	6	.15	1.2	.7	LER	1.8X	225	9
2002	AUG	19	0910	19.21	20	0.59	155	22.14	6.22	15	2	.10	.7	1.0	KEA	1.8X	168	13
2002	AUG	19	1200	9.20	19	52.83	155	25.23	29.03	28	9	.10	.6	1.2	KEA	2.0X	135	8
2002	AUG	19	1748	41.80	19	28.21	155	35.68	0.53	15	4	.14	.2	.2	MLO	2.0X	72	1
2002	AUG	19	2343	34.19	19	13.18	155	28.03	33.57	21	6	.10	1.2	1.0	DLS	1.8X	225	15
2002	AUG	20	0555	40.54	19	19.60	155	6.04	3.63	16	2	.10	1.2	3.8	SSF	1.5X	222	9
2002	AUG	20	0840	30.06	19	14.33	155	35.56	2.53	3812		.18	.4	.9	LSW	1.7X	86	15
2002	AUG	20	0901	19.99	19	19.21	155	10.03	7.21	36	8	.11	.5	.8	SF3	1.5X	176	7
2002	AUG	20	0913	19.80	18	56.83	155	18.67	16.40	23	8	.14	2.5	16.3	LOI -	1.5X	316	39
2002	AUG	20	1308	25.22	19	23.58	155	28.69	9.59	43	9	.10	.3	.6	KAO	1.5X	53	3
2002	AUG	20	1431	12.89	18	56.99	155	17.44	15.20	17	6	.14	1.5	1.8	LOI	1.8X	266	29
2002	AUG	20	1924	21.92	19	25.33	155	13.08	31.74	25	8	.09	1.3	1.0	DEP	1.5X	165	2
2002	AUG	20	2005	33.71	19	16.52	155	31.41	0.77	34	9	.14	.3	.4	LSW	1.5X	82	13
2002	AUG	20	2015	28.93	19	17.72	155	30.33	11.81	3211		.10	.4	.6	LSW	1.6X	91	10
2002	AUG	20	2217	12.28	18	57.42	155	19.17	11.55	20	6	.10	1.4	.8	LOI	1.4X	314	43
2002	AUG	21	0054	36.91	19	28.50	155	25.49	6.16	22	7	.14	.4	1.4	KAO	1.1X	62	5
2002	AUG	21	0331	54.38	20	1.71	155	45.35	11.12	22	5	.12	1.0	1.0	KOH	1.4X	155	11
2002	AUG	21	0615	21.13	20	1.05	155	21.61	6.57	4112		.10	.4	.6	KEA	2.3X	174	12
2002	AUG	21	0823	36.19	19	31.03	155	22.48	13.77	3110		.11	.6	.7	DML	1.4X	170	3
2002	AUG	21	1141	31.62	19	20.29	155	5.65	7.85	4011		.10	.6	.7	SF4	1.8X	181	7
2002	AUG	21	1555	44.87	19	17.66	155	13.21	9.94	46	8	.11	.5	.3	SF2F	3.6U	140	1
2002	AUG	21	1603	19.32	19	19.21	155	13.32	8.92	44	8	.12	.4	.3	SF2F	3.0X	164	6
2002	AUG	21	1616	25.09	19	18.47	155	13.09	7.47	4110		.12	.4	.7	SF2	1.9X	93	3
2002	AUG	21	1619	12.75	19	18.47	155	13.14	5.60	3210		.12	.4	1.0	SF2	1.4X	91	3
2002	AUG	21	1623	26.24	19	17.69	155	13.25	6.47	33	7	.11	.5	.9	SF2	1.5X	105	1
2002	AUG	21	1855	47.67	19	24.14	155	14.19	13.42	19	5	.15	1.3	.5	DEP	1.4X	273	4
2002	AUG	21	1933	39.80	19	25.09	154	58.30	4.04	29	6	.10	.8	.2	SLE	2.0X	189	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	21	1941	52.55	19	25.39	154	58.62	3.44	33	9	.11	.7	.3	SLE	1.8X	128	1
2002	AUG	21	2000	35.22	19	15.99	155	11.97	3.72	31	8	.13	1.2	2.6	SSF	1.4X	253	12
2002	AUG	21	2305	2.19	19	18.97	155	7.17	2.18	3710		.12	.4	.6	SSF	1.9X	186	8
2002	AUG	22	0418	1.28	19	18.44	155	13.07	8.25	37	6	.12	.8	.5	SF2	1.7X	202	8
2002	AUG	22	0436	17.24	19	16.62	155	11.72	7.19	27	4	.12	.9	1.5	SF3	1.2X	252	11
2002	AUG	22	0556	2.79	19	26.22	155	28.97	9.55	3611		.13	.4	.8	KAO	1.5X	45	7
2002	AUG	22	0927	14.87	19	24.00	155	16.06	15.15	22	6	.18	1.2	.5	DEPL	1.7X	182	3
2002	AUG	22	1404	26.03	19	19.36	155	11.49	6.36	29	7	.08	.5	.9	SF3	1.8X	177	6
2002	AUG	22	1415	51.89	19	51.80	155	55.55	22.28	18	6	.13	1.6	2.3	HUA	1.8X	291	22
2002	AUG	22	1747	12.24	19	24.84	155	19.93	6.81	35	6	.11	.4	.8	KAO	1.7X	46	2
2002	AUG	22	1918	51.37	19	30.79	155	27.11	5.89	17	5	.08	.3	.9	MLO	1.2X	124	2
2002	AUG	23	0058	27.23	19	19.83	155	4.14	4.38	3912		.10	.8	1.3	SSF	1.9X	214	9
2002	AUG	23	0236	59.03	19	13.12	155	27.08	35.43	4814		.08	.5	.8	DLS	2.1X	127	7
2002	AUG	23	0524	49.79	19	11.82	155	25.31	34.51	5016		.10	.6	.9	DLS	2.2X	165	6
2002	AUG	23	0817	28.69	19	28.36	155	34.91	3.64	10		.10	.7	.9	MLOT	1.1X	81	0
2002	AUG	23	0908	53.24	19	24.20	155	37.52	2.67	18	6	.19	.5	.3	MLO	1.3X	115	1
2002	AUG	23	1021	34.97	19	46.65	155	52.91	31.65	20	6	.12	1.3	2.2	HUA	1.6X	271	11
2002	AUG	23	1207	49.82	19	10.46	155	28.98	28.20	27	9	.08	.5	1.1	DLS	1.6X	99	3
2002	AUG	23	1233	0.39	19	17.76	155	13.02	6.00	3410		.10	.4	.9	SF2	1.5X	169	2
2002	AUG	23	1313	15.69	19	26.09	155	28.78	10.33	27	8	.11	.4	1.1	KAO	1.2X	85	7
2002	AUG	23	1708	2.75	19	22.86	155	26.51	9.79	34	9	.12	.4	.8	KAO	1.3X	55	2
2002	AUG	23	1753	12.82	19	15.83	155	11.47	9.64	3510		.11	.6	.9	SF3	1.4X	198	7
2002	AUG	23	1825	31.16	19	16.91	155	12.90	0.89	3710		.11	.7	.4	SSF	1.6X	181	10
2002	AUG	23	2033	24.34	19	18.61	155	9.58	3.92	32	8	.13	.9	2.8	SSF	1.2X	190	7
2002	AUG	23	2316	38.83	19	22.75	155	13.88	33.64	4914		.11	.5	.6	DEP	2.3X	124	1
2002	AUG	23	2318	36.17	19	22.51	155	13.75	31.86	31	9	.11	1.0	.8	DEP	1.6X	141	1
2002	AUG	23	2324	2.75	19	22.74	155	14.14	33.51	4712		.11	.5	.6	DEP	2.5X	126	2
2002	AUG	24	0616	39.54	19	6.35	155	28.75	28.38	22	5	.11	1.2	1.8	DLS	1.2X	243	6
2002	AUG	24	0818	7.49	19	16.99	155	48.45	2.39	29	6	.10	.5	.8	KON	1.5X	194	15
2002	AUG	24	1813	21.21	19	24.34	155	37.77	2.16	18	5	.24	.6	.4	MLO	1.3X	111	0
2002	AUG	24	1857	45.83	19	25.25	155	29.15	8.46	21	6	.11	.4	1.2	KAO	1.0X	98	6
2002	AUG	25	0538	18.94	19	19.94	156	19.48	4.40	4010		.13	.9	.8	KON	2.4X	239	62
2002	AUG	25	1200	9.41	19	18.47	155	13.57	5.27	21	2	.12	1.1	1.8	SF2	1.2X	140	3
2002	AUG	25	1222	28.33	19	16.62	155	11.98	7.73	28	6	.10	.9	.6	SF3	1.4X	250	3
2002	AUG	25	1359	53.19	19	24.25	155	16.25	1.32	18	4	.10	.2	.3	SEC	1.9X	82	1
2002	AUG	25	1510	41.78	20	1.33	155	21.83	7.90	29	8	.12	.5	.6	KEAF	2.3X	176	13
2002	AUG	25	1653	30.43	19	33.87	155	42.03	9.68	18	4	.14	.8	1.5	MLO	1.4X	124	9
2002	AUG	25	2141	32.64	19	13.01	155	27.27	3.45	17	4	.10	1.6	2.9	LSW	1.0X	278	15
2002	AUG	26	1314	17.16	19	18.56	155	12.84	8.15	4210		.09	.4	.4	SF2	1.9X	139	3
2002	AUG	26	1449	49.61	19	30.85	155	41.28	8.34	3510		.14	.5	.8	MLO	1.7X	79	8
2002	AUG	26	1837	11.14	19	29.33	155	26.46	4.05	28	9	.13	.3	1.3	KAO	1.4X	68	5
2002	AUG	26	2108	41.21	19	19.21	155	5.78	6.89	3912		.11	.6	.8	SF4	1.8X	226	8
2002	AUG	26	2132	51.38	20	1.22	155	37.35	13.16	5315		.10	.4	.6	KOHF	2.6X	133	18
2002	AUG	26	2223	11.62	19	20.62	155	12.89	34.43	4914		.11	.6	.7	DEP	2.3X	159	4
2002	AUG	26	2311	2.30	19	23.68	155	27.11	8.90	4410		.14	.4	.8	KAO	2.2X	50	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	26	2334	12.92	18	47.11	155	12.49	10.90	28	6	.12	1.9	2.0	LOI	2.0X	277	49
2002	AUG	27	0350	39.60	19	17.79	155	13.08	1.74	3110		.11	.7	.6	SSF	1.2X	207	9
2002	AUG	27	0353	40.90	19	23.03	155	14.57	2.97	19	6	.10	.3	.4	SEC	1.1X	138	3
2002	AUG	27	0354	5.04	19	22.80	155	14.53	2.58	30	8	.12	.4	.3	SEC	2.1X	122	3
2002	AUG	27	0355	21.62	19	22.99	155	14.58	2.62	14	6	.10	.3	.4	SEC	1.4X	141	3
2002	AUG	27	0721	48.07	19	17.27	155	12.73	7.13	37	9	.13	.5	.7	SF2	1.5X	153	1
2002	AUG	27	0753	17.18	19	16.67	155	12.13	7.91	4011		.11	.5	.7	SF3	1.8X	203	2
2002	AUG	27	1427	19.32	19	15.51	155	10.39	9.54	36	9	.11	.6	.7	SF3	1.5X	195	6
2002	AUG	27	2010	4.40	19	27.20	155	29.97	10.62	3710		.14	.4	.8	KAO	1.5X	67	7
2002	AUG	27	2041	14.16	19	17.91	155	18.74	32.00	4615		.11	.6	.8	DEP	2.0X	157	0
2002	AUG	27	2054	59.08	19	24.90	155	15.82	12.17	20	7	.12	.8	.6	INTL	1.4X	229	3
2002	AUG	27	2353	2.44	19	21.00	155	3.57	5.64	26	7	.11	1.1	1.3	SF5	1.6X	309	8
2002	AUG	28	0338	48.54	19	15.24	155	32.92	6.47	31	9	.13	.3	1.1	LSW	1.5X	74	14
2002	AUG	28	0406	4.71	19	19.05	155	11.76	6.30	3911		.10	.5	.8	SF3	1.4X	146	7
2002	AUG	28	1136	39.06	19	23.82	155	29.51	12.60	23	6	.08	.4	.8	KAO	1.4X	76	4
2002	AUG	28	1202	23.76	19	18.43	155	12.93	8.87	42	9	.10	.4	.3	SF2	2.3X	167	8
2002	AUG	28	1204	23.10	19	17.31	155	12.86	6.15	3911		.11	.4	.8	SF2	1.8X	183	1
2002	AUG	28	1211	5.69	19	16.67	155	12.30	7.05	24	7	.10	.6	1.0	SF2	1.2X	226	2
2002	AUG	28	1307	49.41	19	18.73	155	13.07	3.47	38	8	.13	.3	.9	SSF	1.5X	88	3
2002	AUG	28	1309	11.69	19	25.65	155	19.36	6.71	3710		.09	.4	.6	KAO	1.8X	48	3
2002	AUG	28	1504	4.05	19	19.13	155	15.05	5.26	29	7	.12	.4	1.3	SF1	1.2X	117	4
2002	AUG	28	1809	14.70	19	19.20	155	7.62	2.24	29	8	.10	.8	.9	SSF	1.3X	220	8
2002	AUG	28	1902	17.13	19	18.40	155	8.10	6.33	29	8	.11	.8	1.3	SF4	1.5X	254	9
2002	AUG	28	2149	45.26	19	18.63	155	13.13	9.20	42	9	.12	.6	.4	SF2	2.2X	170	7
2002	AUG	29	0204	53.02	19	26.84	155	28.72	9.93	27	8	.10	.4	.9	KAO	1.0X	78	8
2002	AUG	29	0316	27.34	19	17.76	155	12.55	9.23	4112		.10	.5	.4	SF2	1.7X	202	9
2002	AUG	29	0321	54.22	19	16.87	155	12.14	2.59	26	6	.11	1.3	1.5	SSF	1.3X	247	11
2002	AUG	29	0723	14.21	19	20.49	155	51.28	8.11	23	7	.17	.8	1.6	KON	1.3X	207	20
2002	AUG	29	0950	39.84	19	27.66	155	30.18	9.30	24	7	.15	.5	1.3	KAO	1.3X	70	7
2002	AUG	29	1105	3.54	19	25.85	155	15.74	1.70	15	4	.07	.4	.4	SNC	1.3X	169	3
2002	AUG	29	1114	45.79	19	20.89	155	8.34	7.63	4611		.10	.5	.4	SF4	2.6X	164	5
2002	AUG	29	1600	41.56	19	0.97	155	7.87	37.10	4915		.11	.7	1.4	LOIF	2.2X	237	31
2002	AUG	29	1703	2.46	18	50.73	155	13.92	49.11	23	5	.10	1.5	2.0	LOI	2.0X	279	42
2002	AUG	29	2030	31.93	19	28.50	155	36.17	0.47	12	1	.14	.3	.4	MLO	1.2X	89	1
2002	AUG	29	2248	38.70	19	25.61	155	16.14	9.93	24	4	.09	.5	.6	INTL	1.5X	118	2
2002	AUG	30	0124	16.15	19	30.26	154	57.53	46.14	38	6	.10	1.2	.8	LER	2.0X	236	10
2002	AUG	30	0415	56.40	19	20.12	155	6.24	51.26	34	2	.10	1.4	1.5	DEP	2.0X	183	6
2002	AUG	30	0431	19.65	19	42.81	155	56.03	15.48	24	5	.12	1.5	.9	HUA	1.6X	235	10
2002	AUG	30	0649	25.18	19	57.03	155	31.97	39.78	27	3	.12	.9	1.9	KEA	1.8X	160	20
2002	AUG	30	1053	31.00	19	18.98	155	11.31	6.76	32	5	.10	.5	.7	SF3	1.7X	165	5
2002	AUG	30	1500	50.25	20	25.99	156	1.00	6.97	14	7	.09	1.6	2.8	DIS	2.0X	175	41
2002	AUG	30	1542	35.52	19	18.44	154	58.65	40.88	38	7	.10	1.3	.8	LER	1.9X	253	12
2002	AUG	30	1848	30.07	19	33.52	155	41.85	10.69	18	3	.10	.6	1.1	MLO	1.4X	122	9
2002	AUG	30	2208	31.85	19	19.72	155	6.63	8.30	38	9	.11	.8	.5	SF4	2.0X	182	7
2002	AUG	30	2301	39.78	19	52.50	155	20.57	31.52	3510		.11	.7	1.0	KEA	1.7X	120	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	AUG	31	0030	13.46	19	18.67	155	13.28	9.42	32	5	.12	.8	.5	SF2	1.8X	173	7
2002	AUG	31	0048	24.53	19	18.22	155	13.11	7.51	22	2	.11	1.0	1.2	SF2	1.3X	215	8
2002	AUG	31	0103	40.82	19	18.25	155	13.11	1.01	30	8	.14	.7	.5	SSF	1.3X	215	8
2002	AUG	31	0400	22.88	18	54.66	155	20.29	39.58	28	8	.10	1.1	1.5	LOI	2.0X	250	30
2002	AUG	31	0634	36.94	19	14.97	155	34.39	6.67	4412		.16	.3	1.0	LSW	2.1X	115	15
2002	AUG	31	1308	15.87	19	23.50	155	15.16	2.55	20	8	.09	.3	.3	SEC	1.4X	83	2
2002	AUG	31	2314	41.62	19	28.25	155	35.51	0.76	13	4	.12	.3	.2	MLO	.8X	119	1
2002	SEP	1	0130	20.48	19	14.75	155	26.63	0.35	32	4	.17	.5	.6	LSW	1.4X	129	10
2002	SEP	1	0305	43.71	19	32.42	155	42.34	13.03	17	2	.13	.6	.7	DML	1.6X	152	13
2002	SEP	1	0446	47.11	19	47.25	155	35.03	16.30	26	3	.12	.6	1.4	KEA	1.8X	109	11
2002	SEP	1	0615	55.06	19	30.05	155	30.29	7.73	17	4	.12	.5	1.7	MLO	1.4X	72	6
2002	SEP	1	0838	13.69	19	26.72	155	30.17	11.34	18	3	.11	.5	1.0	KAO	1.2X	86	6
2002	SEP	1	1614	53.31	19	21.11	155	17.35	47.62	5112		.13	.6	.9	DEP	2.4X	46	2
2002	SEP	1	1636	45.60	19	22.01	155	9.41	4.50	16	3	.09	.7	.7	SER	1.4X	115	2
2002	SEP	1	1902	9.47	19	10.79	155	39.60	1.23	18	3	.13	.6	.9	LSW	1.4X	160	11
2002	SEP	2	0158	8.35	19	14.49	155	2.28	44.10	33	9	.11	1.1	.8	DEP	1.5X	270	19
2002	SEP	2	0245	9.88	19	22.65	155	29.85	9.72	26	6	.13	.5	.8	KAO	1.0X	118	4
2002	SEP	2	0454	23.15	19	28.84	155	24.61	4.60	25	7	.11	.3	.9	KAO	1.1X	81	3
2002	SEP	2	0734	54.88	19	26.19	154	57.37	0.76	22	7	.11	.6	.3	SLE	1.7X	153	3
2002	SEP	2	0924	32.79	19	19.74	155	8.06	5.62	29	6	.11	.5	1.4	SF4	1.4X	184	7
2002	SEP	2	0938	20.53	19	43.22	156	10.35	15.38	20	5	.18	7.6	13.6	HUA -	1.8X	310	35
2002	SEP	2	1021	7.87	19	19.49	155	11.06	5.33	30	9	.12	.6	1.5	SF3	1.2X	159	6
2002	SEP	2	1438	42.42	19	33.49	155	26.76	25.19	15	3	.07	.9	1.4	DML	1.4X	158	3
2002	SEP	2	1443	3.32	19	25.76	155	19.88	7.00	18	3	.13	.6	1.5	KAO	1.1X	94	4
2002	SEP	2	1726	40.22	19	16.00	155	18.55	31.95	42	9	.11	.7	.9	DEP	1.9X	166	11
2002	SEP	2	2025	9.34	19	17.95	155	5.66	4.60	18	2	.09	1.2	5.3	SSF	1.4X	235	10
2002	SEP	2	2155	44.11	19	25.68	155	19.01	14.35	14	2	.10	1.0	1.8	DEPL	1.7X	88	3
2002	SEP	3	0210	13.34	19	19.83	155	5.99	6.61	34	7	.10	.8	.7	SF4	1.7X	220	7
2002	SEP	3	1017	8.88	19	25.75	155	18.89	7.33	28	8	.10	.5	.7	INT	1.5X	145	2
2002	SEP	3	1224	48.27	19	52.22	155	48.32	38.69	31	8	.09	.9	1.1	HUA	2.0X	175	15
2002	SEP	3	2121	37.07	19	18.03	155	7.59	3.96	27	7	.11	.9	2.7	SSF	1.3X	228	10
2002	SEP	3	2206	10.91	20	0.95	155	22.77	6.52	17	4	.18	1.2	.8	KEA	1.1X	284	14
2002	SEP	4	0031	19.83	19	15.93	155	26.13	8.60	27	7	.10	.4	.6	LSW	1.1X	139	9
2002	SEP	4	0223	43.60	19	20.52	155	18.12	13.20	3611		.09	.6	.4	DEP	1.4X	173	5
2002	SEP	4	0313	47.68	19	20.08	155	6.63	6.89	30	7	.11	.9	.6	SF4	1.3X	215	6
2002	SEP	4	0631	44.78	19	23.67	155	2.90	1.19	32	5	.14	.9	.7	SME	2.0X	147	8
2002	SEP	4	1239	49.06	19	29.00	155	52.37	11.22	14	2	.15	1.1	.8	KON	1.3X	207	12
2002	SEP	4	1459	53.89	19	48.57	155	46.93	14.35	27	8	.13	1.2	.6	HUA	1.7X	222	14
2002	SEP	4	1514	45.97	19	50.43	155	44.22	34.91	33	8	.08	.7	1.1	HUA	1.9X	140	8
2002	SEP	4	1716	3.35	19	39.68	156	27.51	2.36	26	7	.10	1.4	.7	DIS	2.0X	236	65
2002	SEP	4	1726	49.98	19	20.29	155	11.32	7.57	3913		.12	.4	.6	SF3	1.5X	80	5
2002	SEP	5	0308	25.76	19	31.85	155	28.42	6.19	29	8	.12	.3	.9	MLO	1.2X	74	1
2002	SEP	5	0416	2.10	19	24.77	155	1.04	7.11	27	7	.13	1.1	.6	SF5	1.1X	177	4
2002	SEP	5	1241	55.78	19	45.48	155	50.87	29.82	22	7	.10	1.0	1.5	HUA	1.5X	248	8
2002	SEP	5	1417	57.95	19	23.11	155	14.74	2.88	19	7	.08	.3	.4	SEC	1.7X	80	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	SEP	5	1449	28.75	19	17.06	155	13.71	8.92	34	8	.10	.4	.4	SF2	1.5X	182	0
2002	SEP	5	2213	29.13	19	19.67	155	5.94	3.25	28	8	.11	.6	1.0	SSF	1.2X	221	7
2002	SEP	5	2343	24.17	19	37.31	156	24.18	15.69	26	6	.17	5.7	13.4	DIS -	1.8X	299	60
2002	SEP	6	0409	34.24	19	19.90	155	10.89	8.31	35	9	.09	.7	.5	SF3	1.5X	207	5
2002	SEP	6	0746	40.45	19	22.61	155	29.77	9.46	40	9	.09	.3	.6	KAO	1.4X	36	4
2002	SEP	6	0915	39.16	19	50.79	155	31.85	19.60	4616		.10	.5	1.5	KEA	1.8X	115	11
2002	SEP	6	1659	4.64	19	29.06	155	27.82	5.46	19	6	.11	.4	2.2	KAO	1.1X	78	5
2002	SEP	6	2201	37.68	19	17.51	155	25.60	9.05	17	5	.09	.7	1.3	LSW	.8X	244	6
2002	SEP	7	0154	53.01	19	30.38	155	21.56	13.18	3610		.10	.5	.6	DML	1.6X	116	3
2002	SEP	7	0522	56.43	19	18.46	155	10.21	2.51	24	6	.10	.5	1.1	SSF	1.5X	219	8
2002	SEP	7	0543	8.83	19	37.75	155	21.23	10.79	17	3	.12	.6	1.7	KEA	1.3X	154	14
2002	SEP	7	1144	14.89	19	5.69	155	29.46	28.33	3710		.10	.7	1.4	DLS	1.9X	180	8
2002	SEP	7	1305	31.19	19	22.80	154	45.85	39.43	4211		.13	1.1	1.0	LER	2.1X	283	13
2002	SEP	7	1924	2.40	18	51.72	155	11.17	34.51	31	4	.11	1.8	2.5	LOI	2.3X	266	44
2002	SEP	7	2139	57.72	19	29.58	155	24.05	22.59	17	5	.10	.8	1.1	DML	1.6X	65	1
2002	SEP	8	0428	30.73	19	17.80	155	6.52	5.36	20	1	.10	1.6	2.2	SF4	1.2X	267	10
2002	SEP	8	0501	29.19	19	8.73	155	38.32	11.95	13	1	.11	.7	1.0	LSW	1.3X	104	13
2002	SEP	8	0746	22.67	19	19.73	155	6.77	7.63	4511		.09	.3	.4	SF4	2.3X	152	5
2002	SEP	8	0958	24.87	19	22.33	155	54.74	14.00	26	7	.10	1.2	.5	KON	1.8X	258	22
2002	SEP	8	1344	48.23	19	18.48	155	13.30	8.24	33	7	.10	.5	.6	SF2	1.4X	123	3
2002	SEP	8	1822	5.70	19	50.30	155	49.28	39.34	34	9	.09	.8	1.0	HUA	2.1X	180	17
2002	SEP	8	1839	26.45	19	16.05	155	14.11	0.73	23	5	.09	1.9	.8	SSF	1.3X	254	12
2002	SEP	9	0006	23.19	19	23.55	155	15.12	3.09	19	7	.07	.3	.3	SEC	1.4X	98	3
2002	SEP	9	0122	2.54	19	18.87	155	12.89	5.06	34	9	.13	.7	1.3	SF2	1.4X	228	7
2002	SEP	9	0528	26.48	19	21.43	155	18.48	2.07	20	8	.09	.4	.5	SWR	1.2X	177	5
2002	SEP	9	0730	50.69	19	22.94	155	14.69	2.81	18	6	.08	.3	.4	SEC	1.3X	121	2
2002	SEP	9	0831	4.85	19	25.15	155	24.09	9.78	4410		.12	.4	.6	KAO	2.0X	43	8
2002	SEP	9	1700	44.28	19	20.20	155	7.03	7.46	3710		.10	.4	.7	SF4	1.8X	140	5
2002	SEP	9	1939	54.12	19	16.33	155	34.63	8.74	35	7	.15	.5	1.2	LSW	1.9X	101	13
2002	SEP	9	2111	39.08	19	18.87	155	11.70	3.35	3411		.11	.6	1.2	SSF	1.3X	183	5
2002	SEP	9	2318	8.56	19	13.03	155	27.22	35.05	3911		.09	.6	.9	DLS	1.6X	132	7
2002	SEP	9	2336	14.90	19	16.27	155	12.13	5.81	30	9	.11	.7	1.6	SF3	1.2X	251	12
2002	SEP	10	0624	11.16	19	18.76	155	6.44	4.94	24	4	.08	.9	2.1	SSF	1.4X	227	9
2002	SEP	10	1016	56.17	19	13.63	155	34.47	35.70	19	5	.09	.7	1.4	DLS	1.6X	125	14
2002	SEP	10	1416	50.76	19	21.57	155	14.29	12.56	3611		.09	.6	.3	SF2	1.7X	94	3
2002	SEP	10	1807	22.17	20	4.88	155	36.63	32.68	30	9	.10	.8	1.2	KOH	2.0X	192	18
2002	SEP	10	1958	23.14	19	13.08	155	27.44	33.65	29	8	.09	.9	1.2	DLS	1.3X	204	15
2002	SEP	10	2201	29.42	19	28.48	154	54.84	0.02	20	6	.12	.7	.3	SLE	1.8X	147	7
2002	SEP	10	2251	35.99	19	36.19	155	54.21	6.24	27	8	.16	.8	.9	KON	1.8X	259	12
2002	SEP	10	2300	28.39	19	45.86	155	26.30	27.14	4914		.11	.4	1.0	KEAF	2.9X	76	3
2002	SEP	10	2312	30.67	19	58.68	155	53.54	10.15	21	6	.11	1.2	.8	KOH	1.5X	225	20
2002	SEP	11	0016	10.34	19	24.90	155	19.92	5.81	22	5	.12	.4	1.0	KAO	.9X	79	2
2002	SEP	11	0137	36.99	19	56.99	155	25.93	35.71	3814		.11	.7	1.3	KEA	1.9X	183	11
2002	SEP	11	0437	18.97	19	12.17	155	35.57	1.48	3510		.17	.7	.6	LSW	1.5X	134	14
2002	SEP	11	0901	7.26	19	20.27	155	12.95	6.20	36	7	.11	.4	.7	SF2	1.5X	68	4
2002	SEP	11	1012	5.97	19	20.90	155	7.92	9.32	4210		.08	.4	.3	SF4	2.1X	117	4
2002	SEP	11	1058	15.42	19	33.89	155	36.30	12.33	20	6	.14	.8	1.0	MLO	1.3X	180	4
2002	SEP	11	1838	7.16	19	19.51	155	13.59	9.67	4111		.11	.6	.5	SF2	2.1X	165	6
2002	SEP	11	2051	10.34	19	59.73	155	36.25	14.93	29	8	.12	1.8	2.3	KOH #	2.0X	164	23
2002	SEP	11	2145	0.00	20	32.31	155	58.14	30.70	5014		.14	1.2	1.7	DISF	3.4X	185	36
2002	SEP	11	2158	6.49	19	27.03	155	29.16	10.28	29	6	.11	.4	.9	KAO	1.4X	80	9
2002	SEP	12	0043	4.94	19	30.75	155	28.79	6.26	25	8	.09	.3	.8	MLO	1.2X	60	3
2002	SEP	12	0054	28.10	19	17.07	155	13.81	7.90	3511		.15	.6	.8	SF2	1.3X	198	10
2002	SEP	12	0217	18.40	19	31.39	155	36.19	15.09	28	9	.11	.4	.3	DML	1.4X	64	3
2002	SEP	12	0451	32.20	19	20.03	155	12.67	6.47	31	9	.17	.7	1.1	SF2	1.2X	217	5
2002	SEP	12	0622	59.02	19	18.57	155	6.56	1.71	28	7	.09	.8	.5	SSF	1.4X	228	9
2002	SEP	12	1209	3.59	19	27.58	155	28.92	11.51	19	7	.12	.5	1.2	KAO	1.0X	70	8
2002	SEP	12	1215	15.55	19	19.62	155	7.00	5.62	32	9	.12	.6	1.3	SF4	1.4X	194	7
2002	SEP	12	2005	17.36	19	19.92	155	22.88	9.84	4212		.12	.5	.4	SWR	1.7X	128	1
2002	SEP	12	2123	10.17	19	20.53	155	28.56	9.23	31	9	.12	.5	.7	KAO	1.2X	83	4
2002	SEP	12	2150	3.85	19	27.46	154	55.05	0.02	18	5	.13	.6	.3	SLE #	1.3X	147	7
2002	SEP	12	2344	59.64	19	19.14	155	8.47	6.33	21	6	.09	.8	1.7	SF4	1.1X	265	7
2002	SEP	13	0101	46.34	19	12.00	155	27.77	6.44	4411		.13	.4	.9	LSW	2.1X	118	5
2002	SEP	13	0104	10.02	19	12.82	155	26.87	0.03	23	6	.15	.6	.3	LSW #	1.2X	163	6
2002	SEP	13	0757	53.05	19	28.42	155	36.09	1.11	19	4	.11	.3	.2	MLO	2.0X	83	2
2002	SEP	13	0918	1.75	19	22.79	155	50.95	12.64	21	6	.12	.9	.6	KON	2.0X	201	17
2002	SEP	13	1015	25.92	19	18.97	155	6.17	6.03	29	7	.14	.8	1.4	SF4	1.7X	207	8
2002	SEP	13	1200	30.05	19	24.75	155	16.81	0.92	12	3	.11	.4	.2	SNCL	1.4X	89	0
2002	SEP	13	1704	27.48	19	21.52	155	3.31	1.52	32	9	.14	.6	.5	SSF	1.4X	177	8
2002	SEP	13	1859	46.23	19	22.50	155	13.56	20.22	19	6	.10	1.0	.7	DEP	1.3X	275	4
2002	SEP	14	0239	2.50	19	18.99	155	13.14	7.89	4212		.11	.4	.6	SF2	1.5X	169	7
2002	SEP	14	0304	17.13	19	30.35	155	15.15	9.85	3913		.11	.4	.6	GLN	1.5X	61	5
2002	SEP	14	0448	36.74	19	22.32	155	29.80	9.85	25	8	.08	.4	.8	KAO	1.0X	157	4
2002	SEP	14	1139	0.97	19	20.04	155	8.25	7.45	4512		.10	.3	.5	SF4	2.1X	109	5
2002	SEP	14	1304	25.62	19	21.30	155	4.92	6.84	4010		.12	.4	.7	SF5	1.9X	153	6
2002	SEP	14	1607	27.39	19	29.50	155	26.52	7.88	25	7	.13	.4	1.0	KAO	1.0X	87	5
2002	SEP	14	1649	6.83	19	21.27	155	49.91	10.89	26	6	.14	.8	.5	KON	1.5X	197	17
2002	SEP	14	1800	17.75	20	0.13	155	36.10	43.55	20	6	.07	.9	1.1	KOH	1.6X	272	17
2002	SEP	14	1944	29.50	19	18.83	155	10.17	3.13	3410		.11	.5	.9	SSF	1.3X	217	7
2002	SEP	14	2137	52.62	19	20.42	155	15.11	8.21	4111		.11	.3	.4	SF1	1.7X	155	4
2002	SEP	15	0244	6.12	19	23.80	155	15.94	14.43	22	6	.13	.8	.3	DEPL	1.3X	118	3
2002	SEP	15	1434	30.92	19	32.69	155	44.00	9.01	25	5	.15	.5	1.0	KON	1.4X	105	5
2002	SEP	16	0101	14.92	19	10.21	155	29.01	40.67	15	4	.04	1.1	2.3	DLS	1.4X	274	21
2002	SEP	16	0438	49.55	19	22.60	155	29.97	6.52	23	3	.12	.5	1.2	KAO	1.1X	119	4
2002	SEP	16	0445	19.64	19	22.40	155	30.10	9.48	28	8	.12	.5	.7	KAO	1.2X	62	4
2002	SEP	16	0623	24.99	19	53.84	156	7.37	46.82	3310		.09	.8	1.5	HUA	2.2X	189	38
2002	SEP	16	0803	50.98	19	12.76	155	33.31	2.25	32	9	.11	.6	.8	LSW	1.6X	202	11
2002	SEP	16	1538	13.37	19	45.12	155	23.61	27.37	22	6	.12	.8	1.3	KEA	1.5X	111	8
2002	SEP	17	0102	41.35	19	39.42	155	7.55	14.85	2912		.08	.6	.8	HIL	1.4X	104	11
2002	SEP	18	0111	51.90	19	22.61	155	30.07	8.87	24	7	.10	.4	1.0	KAO	1.1X	153	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	SEP	18	0137	17.22	19	28.24	154	54.00	2.66	4111		.13	.4	.8	SLEF	2.3X	134	5
2002	SEP	18	0537	16.14	19	12.72	155	26.24	33.04	24	7	.09	.9	1.3	DLS	1.1X	228	15
2002	SEP	18	1440	23.02	19	13.27	155	19.78	39.19	22	6	.10	1.5	.9	DEP	1.3X	237	13
2002	SEP	18	1447	57.61	19	13.91	155	20.62	47.75	31	8	.11	1.5	1.0	DEP	2.1X	228	13
2002	SEP	18	1610	44.36	19	16.60	155	13.36	6.76	3912		.11	.5	.8	SF2	1.4X	162	1
2002	SEP	18	1816	50.11	18	50.95	155	11.21	35.14	22	7	.11	1.3	2.9	LOI	1.7X	268	53
2002	SEP	18	1902	3.76	19	12.39	155	32.58	0.95	25	9	.14	.3	.3	LSW	1.4X	86	10
2002	SEP	18	2059	30.90	19	16.72	155	15.41	44.28	5016		.13	.8	.7	DEP	2.4X	169	11
2002	SEP	18	2153	26.10	19	13.10	155	25.52	35.84	25	8	.11	1.0	1.4	DLS	1.3X	215	14
2002	SEP	19	0317	39.97	19	22.76	155	30.02	8.97	30	8	.12	.4	.7	KAO	1.2X	118	4
2002	SEP	19	0324	38.60	19	22.22	155	30.34	10.27	20	6	.06	.4	.9	KAO	1.1X	160	5
2002	SEP	19	0624	39.10	19	22.65	155	30.00	8.85	26	8	.07	.4	.8	KAO	1.1X	152	4
2002	SEP	19	0643	57.40	19	17.14	155	29.28	5.35	4010		.11	.4	1.1	LSW	2.0X	123	10
2002	SEP	19	0923	48.02	19	13.58	155	26.46	1.09	30	7	.13	.3	.4	LSW	1.5X	138	8
2002	SEP	19	1221	6.28	19	23.87	155	26.85	9.87	3910		.11	.4	.7	KAO	1.4X	47	3
2002	SEP	19	1439	15.69	19	21.95	155	0.94	8.69	3310		.15	.8	.5	SF5	1.4X	203	7
2002	SEP	19	1520	37.63	19	23.37	155	17.17	1.94	20	8	.10	.3	.2	SSC	1.3X	82	0
2002	SEP	19	1809	9.64	19	13.85	155	16.55	29.77	3912		.10	.8	1.0	DEP	1.8X	181	16
2002	SEP	19	1847	35.86	19	12.56	155	24.88	36.78	4815		.10	.6	.9	DEP	2.2X	160	8
2002	SEP	19	2224	54.47	19	25.34	155	29.69	10.82	4210		.10	.3	.5	KAO	2.2X	36	6
2002	SEP	20	0258	20.67	19	25.89	155	18.64	7.79	22	7	.09	.5	.9	INT	1.1X	87	2
2002	SEP	20	0347	39.05	19	23.66	155	17.11	6.25	23	6	.12	.5	.7	INTL	1.2X	103	1
2002	SEP	20	0535	33.24	19	55.13	155	34.83	11.26	24	8	.11	.3	.4	KOH	1.2X	138	11
2002	SEP	20	0543	36.65	19	42.27	156	6.11	14.30	16	5	.14	8.4	12.6	HUA -	1.1X	312	41
2002	SEP	20	0834	22.82	19	25.74	155	28.12	9.45	37	9	.11	.3	.8	KAO	1.4X	47	6
2002	SEP	20	0928	3.43	19	22.78	155	29.80	9.86	32	8	.09	.4	.8	KAO	1.1X	151	4
2002	SEP	20	1316	7.51	19	19.54	155	11.49	0.01	32	7	.12	.4	.2	SSF #	1.2X	94	6
2002	SEP	20	1436	23.18	19	27.98	155	5.66	43.60	24	5	.12	2.0	1.5	DEP	1.5X	244	12
2002	SEP	20	2040	58.22	19	48.89	155	35.93	16.03	13	6	.10	.5	.8	KEA	1.7X	100	8
2002	SEP	20	2208	8.94	19	21.88	155	30.07	8.41	27	7	.13	.4	.9	KAO	1.1X	126	4
2002	SEP	21	0036	38.36	19	59.39	155	34.40	3.03	22	6	.12	.6	1.1	KOH	1.3X	168	17
2002	SEP	21	0143	2.70	19	28.72	155	27.91	8.08	33	9	.10	.3	.9	KAO	1.4X	61	6
2002	SEP	21	0214	19.99	19	26.54	155	29.30	10.34	3911		.10	.3	.7	KAO	1.6X	48	7
2002	SEP	21	0617	50.12	19	16.87	155	29.77	12.14	21	6	.11	.4	1.0	LSW	1.2X	130	11
2002	SEP	21	0715	13.09	19	22.27	155	2.04	8.08	35	9	.18	.8	.6	SF5	1.5X	182	8
2002	SEP	21	1303	38.86	19	25.06	155	39.27	2.97	11	1	.08	.9	.5	MLO	.9X	204	3
2002	SEP	21	1424	54.38	19	11.68	155	19.89	40.18	34	9	.12	.8	1.3	DEP	1.9X	181	15
2002	SEP	21	1757	46.68	19	25.38	155	19.48	5.57	25	8	.14	.4	1.0	KAO	1.3X	86	3
2002	SEP	21	1848	20.46	19	29.23	155	27.16	8.17	3512		.11	.3	.8	KAO	1.6X	70	5
2002	SEP	21	2100	32.56	19	20.09	155	19.31	3.37	3210		.09	.5	.9	SWR	1.4X	199	7
2002	SEP	21	2101	29.36	19	20.59	155	19.46	2.44	22	8	.11	.4	.6	SWR	1.1X	193	6
2002	SEP	21	2332	50.16	19	17.76	155	14.39	5.56	28	7	.12	.8	1.5	SF2	1.0X	241	9
2002	SEP	22	0057	20.12	19	26.58	154	55.24	0.10	19	6	.13	.7	.2	SLE	1.4X	170	7
2002	SEP	22	0102	0.96	19	21.71	155	17.10	17.79	20	2	.10	1.4	1.1	DEPL	1.9X	176	2
2002	SEP	22	0254	0.96	19	16.85	155	14.69	9.33	4010		.10	.5	.6	SF1	1.7X	176	10
2002	SEP	22	0434	5.62	19	32.92	155	37.59	12.75	25	7	.13	.5	.8	MLO	1.2X	101	5
2002	SEP	22	0553	36.74	20	29.71	155	48.18	24.59	21	3	.12	1.7	6.0	DIS	1.7X	210	41
2002	SEP	22	0821	9.90	19	31.75	155	36.35	15.02	25	8	.11	.7	.3	DML	1.4X	153	3
2002	SEP	22	0905	53.87	19	17.00	155	12.83	8.09	27	2	.13	.7	.6	SF2	1.7X	187	1
2002	SEP	22	0923	45.34	19	18.85	155	17.91	51.35	4110		.12	.9	.8	DEP	2.1X	113	2
2002	SEP	23	0143	52.61	19	24.13	155	17.11	1.85	12	3	.07	.3	.2	SSC	1.1X	80	1
2002	SEP	23	0425	0.15	19	23.17	155	17.04	2.69	13	4	.05	.3	.2	SSC	.9X	119	0
2002	SEP	23	0430	23.13	19	23.28	155	16.85	2.88	24	6	.10	.3	.2	SSC	1.4X	110	0
2002	SEP	23	1405	13.40	19	20.84	155	6.44	6.67	20	2	.12	1.1	.9	SF4	1.3X	263	5
2002	SEP	23	1947	23.46	19	27.09	155	22.42	12.73	19	5	.06	.6	1.0	KAO	1.0X	124	5
2002	SEP	23	1953	5.62	19	26.85	155	22.50	11.18	24	6	.07	.5	1.0	KAO	1.3X	119	6
2002	SEP	23	2224	14.85	19	18.17	155	27.59	8.26	20	2	.14	1.1	.8	LSW	1.3U	180	8
2002	SEP	24	1107	26.66	19	20.85	155	5.68	8.03	22	5	.13	.6	.8	SF4	1.2X	155	6
2002	SEP	24	1420	57.00	19	19.89	155	8.15	6.78	32	9	.08	.4	.8	SF4	1.3X	116	5
2002	SEP	24	2237	30.95	19	28.97	155	36.28	14.23	22	5	.13	.5	.6	DML	1.9X	99	1
2002	SEP	25	0458	54.87	19	27.42	155	28.13	8.43	25	6	.09	.3	.9	KAO	1.2X	63	8
2002	SEP	25	1608	7.24	19	24.80	155	16.81	1.44	15	4	.13	.3	.2	SNC	1.1X	91	0
2002	SEP	25	1904	43.62	19	21.33	155	30.23	7.03	3710		.11	.3	.9	KAO	1.6X	70	5
2002	SEP	26	0646	41.40	19	33.61	155	41.77	11.34	24	7	.12	.6	.8	MLO	1.5X	123	9
2002	SEP	26	0901	55.48	19	24.68	155	38.31	2.76	32	8	.12	.3	.3	MLO	2.0X	103	1
2002	SEP	26	1140	36.96	19	20.99	155	6.12	6.29	27	8	.10	.5	1.0	SF4	1.3X	147	5
2002	SEP	26	1342	47.13	19	20.06	155	10.85	7.94	3511		.10	.4	.6	SF3	1.5X	86	5
2002	SEP	26	1545	40.01	19	1.58	155	26.72	41.09	29	9	.07	.9	1.4	DLS	1.6X	220	15
2002	SEP	26	1627	39.18	19	19.71	155	46.58	8.92	19	4	.10	.9	1.9	KON	1.2X	187	12
2002	SEP	26	1915	10.59	19	20.17	155	29.95	11.77	3710		.09	.4	.7	KAO	1.6X	80	6
2002	SEP	27	0344	15.41	19	11.85	155	15.78	46.91	30	9	.08	.9	1.1	DEPT	1.9X	209	19
2002	SEP	27	0346	20.51	19	11.47	155	16.26	51.04	22	3	.13	1.3	1.3	DEP	1.7X	244	20
2002	SEP	27	0544	50.06	19	24.95	155	16.57	11.01	17	6	.09	.8	.7	INTL	1.3X	143	1
2002	SEP	27	0901	45.39	19	28.42	155	37.83	11.19	16	5	.12	1.0	.9	MLO	1.1X	197	3
2002	SEP	27	1637	51.35	19	12.73	155	32.68	1.63	4311		.13	.3	.5	LSWF	2.3X	82	10
2002	SEP	27	2110	26.26	19	20.08	155	3.86	4.40	22	8	.14	1.0	4.2	SSF #	1.4X	228	9
2002	SEP	27	2218	28.81	19	56.51	154	45.33	6.12	20	5	.08	1.0	.8	KEA	1.7X	286	39
2002	SEP	28	0051	51.54	19	22.45	155	2.10	8.63	4010		.13	.8	.5	SF5	1.6X	179	8
2002	SEP	28	0622	41.91	19	8.53	155	22.03	43.73	3510		.11	.8	1.0	LOI	1.6X	185	10
2002	SEP	28	0742	15.95	19	20.35	155	12.87	7.01	3510		.11	.4	.6	SF2	1.5X	131	4
2002	SEP	28	1559	41.31	19	27.45	154	55.97	1.82	29	5	.13	.5	.8	SLE	1.8X	139	6
2002	SEP	28	1737	44.06	19	19.14	155	8.55	9.12	4611		.12	.5	.3	SF4F	2.8X	99	3
2002	SEP	28	1940	21.35	19	23.36	155	14.92	2.94	18	7	.07	.3	.3	SEC	1.4X	111	2
2002	SEP	28	2218	53.84	19	13.64	155	25.54	8.84	24	5	.13	.7	.6	LSW	1.3X	179	9
2002	SEP	28	2345	6.44	19	14.42	155	19.53	37.56	29	8	.11	.9	1.2	DEP	1.4X	203	13
2002	SEP	29	0119	53.55	19	29.38	155	27.88	7.75	23	8	.09	.3	1.1	KAO	1.4X	80	5
2002	SEP	29	0340	54.57	19	32.73	155	38.02	11.22	22	5	.12	.6	.9	MLO	1.2X	64	5
2002	SEP	29	0451	32.41	19	26.27	155	30.10	11.83	27	8	.10	.4	.7	KAO	1.3X	95	8
2002	SEP	29	0735	52.98	19	24.30	155	17.37	9.30	23	5	.11	.6	.6	INTL	1.5X	53	1
2002	SEP	29	0857	52.77	19	20.68	155	24.70	9.39	3810		.12	.4	.5	SWR	1.3X	87	3

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	SEP	29	1610	45.56	19	23.74	155	15.03	3.74	19	6	.09	.4	.5	SEC	1.5X	66	2
2002	SEP	29	1938	4.84	19	27.16	155	13.94	31.98	4713		.10	.5	.7	DEPF	2.7X	52	5
2002	SEP	29	2124	30.96	19	17.95	155	7.21	2.14	30	8	.10	1.3	1.2	SSF	1.3X	229	10
2002	SEP	30	0151	18.91	19	13.07	155	32.63	1.13	3610		.13	.3	.4	LSW	1.6X	79	11
2002	SEP	30	0421	26.60	19	21.38	155	30.32	10.53	34	8	.07	.4	.7	KAO	1.2X	68	5
2002	SEP	30	0603	12.53	19	23.77	155	27.33	9.41	4412		.11	.3	.6	KAO	1.8X	50	2
2002	SEP	30	1509	38.92	19	24.45	155	37.53	2.80	21	6	.22	.6	.5	MLO	1.4X	112	0
2002	SEP	30	2054	8.40	19	30.99	155	50.48	11.10	23	8	.15	.8	.6	KON	1.5X	192	8
2002	SEP	30	2138	44.28	19	19.27	155	7.82	7.49	4012		.11	.6	.6	SF4	1.9X	219	7
2002	SEP	30	2139	18.00	19	18.73	155	7.62	5.08	4012		.09	.5	1.2	SF4	2.3X	193	8
2002	SEP	30	2141	23.09	19	19.06	155	7.73	3.44	22	9	.09	.6	1.3	SSF	1.5X	221	8
2002	OCT	1	0115	6.92	19	21.42	155	10.06	2.68	3511		.09	.5	.3	SER	1.9X	195	2
2002	OCT	1	1513	39.21	19	26.38	155	30.11	12.10	27	8	.12	.5	1.1	KAO	1.4X	94	6
2002	OCT	2	0359	23.58	19	18.84	155	30.63	0.01	26	5	.21	.6	.4	LSW #	1.5X	86	9
2002	OCT	2	0424	38.29	19	18.10	155	30.58	0.02	29	5	.19	.4	.4	LSW #	1.4X	87	10
2002	OCT	2	1609	10.38	19	46.80	155	1.78	39.30	32	9	.12	1.0	1.2	HIL	1.8X	248	9
2002	OCT	2	1756	2.93	19	21.60	155	1.62	6.94	24	7	.10	.9	.7	SF5	1.2X	230	8
2002	OCT	2	1817	49.46	19	12.06	155	33.73	6.10	3910		.14	.4	1.2	LSW	1.6X	136	21
2002	OCT	2	1823	44.39	19	18.12	155	8.78	1.88	28	8	.12	1.3	1.1	SSF	1.4X	224	9
2002	OCT	3	0510	57.13	19	11.40	155	20.01	44.98	27	8	.10	1.3	.9	DEP	1.6X	276	17
2002	OCT	3	1220	55.86	19	23.99	155	15.77	3.04	22	6	.06	.3	.2	SEC	1.6X	113	1
2002	OCT	3	1833	14.40	19	19.99	155	0.91	36.30	3810		.11	1.1	.6	DEP	1.8X	250	10
2002	OCT	3	2229	6.98	19	33.41	155	44.87	0.01	18	5	.11	.4	.3	KON #	1.5X	128	6
2002	OCT	4	0108	9.67	19	22.45	155	29.17	8.87	4313		.10	.3	.5	KAO	1.5X	62	3
2002	OCT	4	0246	19.03	19	19.52	155	8.75	6.13	33	6	.11	.7	.8	SF4	1.5X	214	6
2002	OCT	4	0857	52.79	19	38.59	155	46.68	12.69	23	5	.10	.6	.4	KON	1.2X	130	8
2002	OCT	4	1545	44.91	19	53.75	155	9.30	38.64	3812		.11	.8	1.1	KEA	1.9X	216	20
2002	OCT	5	0615	29.93	19	46.99	154	59.67	44.30	4814		.12	.8	.9	KEA	2.3X	221	10
2002	OCT	5	0623	25.72	19	0.89	155	28.71	37.22	19	6	.08	1.4	1.2	DLS	1.6X	250	16
2002	OCT	5	0708	9.54	20	26.58	156	6.28	10.74	22	6	.10	1.7	1.5	DIS	1.8X	169	44
2002	OCT	5	1355	19.15	19	25.43	155	17.06	9.46	28	7	.11	.6	.4	INTL	1.8X	95	1
2002	OCT	5	2105	0.65	19	19.33	155	12.30	8.07	29	8	.11	.7	.9	SF3	1.5X	228	6
2002	OCT	5	2241	18.18	19	55.40	155	32.50	37.01	4913		.11	.6	1.1	KEAF	3.1X	119	14
2002	OCT	6	0304	3.41	19	18.74	155	6.37	6.87	3110		.11	.7	.8	SF4	1.7X	227	9
2002	OCT	6	0341	37.62	19	21.34	155	1.39	7.83	38	9	.15	1.0	.6	SF5	1.8X	210	8
2002	OCT	6	0848	1.21	19	24.54	155	16.72	1.00	19	7	.11	.2	.2	SSC	1.5X	122	1
2002	OCT	6	2020	16.63	19	27.41	155	28.59	11.84	20	7	.12	.5	1.3	KAO	.9X	70	9
2002	OCT	6	2111	46.49	19	19.28	155	12.36	4.38	30	9	.12	.7	2.9	SSF	1.2X	228	6
2002	OCT	6	2210	19.71	19	30.64	155	27.08	7.35	20	5	.11	.4	.9	MLO	1.1X	104	3
2002	OCT	7	0237	19.66	19	45.74	155	19.92	12.65	3413		.11	.3	.5	KEA	1.4X	105	13
2002	OCT	7	0412	32.85	19	9.84	155	38.61	0.79	17	4	.08	.9	.4	LSW	1.1X	211	13
2002	OCT	7	1135	37.16	19	14.71	155	28.09	9.51	4615		.13	.3	1.1	LSW	1.7X	95	10
2002	OCT	7	1159	25.66	19	21.98	155	29.97	10.16	39	9	.09	.3	.7	KAO	1.6X	63	4
2002	OCT	7	1822	11.87	20	0.78	155	35.63	11.65	20	6	.14	.8	.6	KOH	1.5X	173	18
2002	OCT	7	1829	38.07	19	57.09	155	34.90	15.89	26	7	.11	.6	.8	KOH	1.6X	151	13

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	OCT	7	1903	6.10	19	29.34	155	25.70	4.86	20	6	.14	.4	1.5	KAO	1.3X	83	4
2002	OCT	7	2143	15.80	19	28.25	155	36.89	11.84	25	5	.09	.5	.6	MLOT	2.2X	82	2
2002	OCT	7	2152	8.92	19	20.18	155	19.48	1.75	24	7	.10	.7	.5	SWR	1.3X	215	7
2002	OCT	7	2213	40.54	19	21.48	155	6.71	8.06	40	8	.09	.6	.4	SF4	2.1X	129	4
2002	OCT	8	0248	4.28	19	24.91	155	16.75	15.27	23	7	.13	1.1	.5	DEPL	1.5X	107	0
2002	OCT	8	0320	5.16	19	11.82	155	39.51	7.27	4614		.15	.3	.8	LSW	2.4X	89	12
2002	OCT	8	0348	32.41	19	19.19	155	8.60	6.64	3813		.12	.5	.7	SF4	1.3X	218	7
2002	OCT	8	0530	48.50	19	18.72	155	25.78	9.74	3811		.14	.5	.6	LSW	1.2X	119	5
2002	OCT	8	0739	27.21	19	15.62	155	14.67	6.58	3210		.10	.6	.9	SF1	1.1X	244	3
2002	OCT	8	0740	59.60	19	19.15	155	7.58	7.96	4111		.09	.4	.5	SF4	1.9X	138	3
2002	OCT	8	0923	18.73	19	27.70	155	29.50	10.53	3510		.12	.3	.8	KAO	1.8X	50	8
2002	OCT	8	1048	7.25	19	11.75	155	38.80	4.85	4210		.15	.4	1.6	LSW	2.5X	90	13
2002	OCT	8	1613	49.94	18	56.20	155	28.20	35.27	5117		.10	.8	1.1	DLS	2.6X	236	21
2002	OCT	8	1629	39.84	19	9.47	155	38.12	4.88	34	8	.14	.4	2.6	LSW	2.0X	101	14
2002	OCT	8	1821	43.91	19	30.35	155	27.39	5.82	28	8	.13	.3	1.0	MLO	1.5X	59	3
2002	OCT	8	2039	33.09	19	25.39	155	29.54	11.51	19	6	.08	.4	1.0	KAO	1.0X	102	6
2002	OCT	8	2254	3.71	19	28.39	155	37.67	13.12	11	2	.08	.8	1.1	DMLT	1.1X	194	3
2002	OCT	8	2259	6.75	19	58.34	155	35.77	9.65	18	5	.11	.6	.7	KOH	1.2X	156	14
2002	OCT	8	2331	14.62	19	20.28	155	13.06	8.98	4111		.09	.5	.4	SF2	1.6X	163	4
2002	OCT	9	0100	16.42	19	14.77	155	27.39	7.55	40	8	.14	.4	.7	LSW	1.8X	116	10
2002	OCT	9	0500	7.77	19	32.66	155	38.09	12.51	16	3	.13	.8	1.2	MLO	.5X	171	5
2002	OCT	9	0500	41.75	19	32.19	155	38.14	12.57	16	4	.10	.7	1.1	MLO	.5X	166	5
2002	OCT	9	0509	21.59	19	14.04	155	36.68	6.52	21	3	.16	.6	2.0	LSW	1.7X	91	15
2002	OCT	9	0845	56.03	20	2.16	155	21.09	8.89	30	7	.13	.8	.7	KEA	2.1X	187	12
2002	OCT	9	1528	55.06	19	19.95	155	7.38	5.64	32	9	.10	.5	1.1	SF4	1.6X	179	5
2002	OCT	9	2159	59.04	19	19.43	155	7.55	7.05	3511		.13	.7	.7	SF4	1.5X	218	7
2002	OCT	10	0100	21.22	19	20.93	155	4.37	4.53	26	7	.13	1.1	3.8	SSF	1.1X	217	7
2002	OCT	10	0112	31.84	19	5.12	155	23.73	35.07	5117		.09	.6	.9	LOI	2.4X	195	11
2002	OCT	10	0219	34.79	19	17.34	155	29.35	10.35	4310		.12	.4	.6	LSW	2.2X	95	10
2002	OCT	10	0249	45.49	19	16.89	155	27.56	8.64	31	8	.13	.6	.7	LSW	1.2X	120	10
2002	OCT	10	0344	9.57	19	27.26	155	29.64	48.53	23	7	.13	1.2	.9	DML	1.5X	63	7
2002	OCT	10	0505	2.41	19	24.57	155	18.02	5.95	23	6	.21	.6	.9	INTL	1.6X	90	2
2002	OCT	10	0858	19.11	19	29.19	154	52.36	5.76	4413		.16	.5	.7	LERF	2.3X	182	4
2002	OCT	10	1506	32.65	19	47.35	155	33.39	15.18	14	4	.12	1.1	.8	KEA	1.3X	94	13
2002	OCT	10	1903	18.26	19	19.79	155	30.21	19.09	21	7	.11	.8	1.6	DML	1.3X	148	11
2002	OCT	10	2119	35.42	19	28.05	155	29.25	9.11	3911		.14	.4	.9	KAO	1.4X	57	8
2002	OCT	11	0004	0.61	19	25.42	155	29.50	11.79	4012		.11	.3	.5	KAO	1.5X	37	6
2002	OCT	11	0925	6.09	19	25.09	155	19.28	5.93	3410		.08	.4	.6	KAO	1.4X	80	3
2002	OCT	11	1006	26.19	19	25.35	155	29.56	10.96	3610		.09	.3	.7	KAO	1.5X	50	6
2002	OCT	11	1243	22.70	19	21.00	155	0.01	5.42	19	2	.10	1.5	.9	SF5	1.6X	251	8
2002	OCT	11	1552	23.46	19	18.39	155	13.28	7.64	36	9	.11	.4	.5	SF2	1.8X	87	3
2002	OCT	11	2012	21.89	19	20.41	155	8.95	8.33	27	2	.12	1.4	.8	SF4	1.8X	206	5
2002	OCT	11	2025	26.87	19	18.63	155	9.62	5.48	22	3	.13	1.1	1.8	SF3	1.5X	255	8
2002	OCT	11	2203	14.43	19	17.71	155	12.62	9.07	24	4	.11	1.0	.7	SF2	1.6X	217	9
2002	OCT	12	0019	5.77	19	19.85	155	15.95	33.61	35	9	.09	.7	.9	DEP	1.8X	156	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	OCT	12	0239	18.94	19	25.02	155	17.99	5.65	18	2	.14	.7	1.3	INTL	1.4U	87	1
2002	OCT	12	0241	4.16	19	19.68	155	13.21	10.23	35	5	.11	.7	.4	SF2	1.8X	166	5
2002	OCT	12	0757	58.50	19	26.55	155	18.58	7.90	17	4	.10	.6	1.1	INT	1.4X	100	3
2002	OCT	12	1519	49.24	19	20.39	155	9.48	6.62	24	4	.09	.5	.9	SF3	1.4X	124	5
2002	OCT	13	0310	17.68	19	25.24	155	29.41	10.79	20	2	.08	.5	1.0	KAO	1.3X	102	6
2002	OCT	13	1133	33.80	19	20.15	155	7.34	7.72	27	4	.12	.6	.8	SF4	1.9X	134	5
2002	OCT	13	1647	8.81	19	51.11	155	32.98	22.92	17	3	.11	1.2	2.3	KEA	1.2X	163	12
2002	OCT	13	1650	10.97	19	13.15	155	27.18	35.14	5015		.08	.5	.8	DLS	2.3X	125	7
2002	OCT	14	0318	51.01	20	10.37	155	37.83	30.94	22	4	.10	1.2	1.8	KOH	1.6X	236	16
2002	OCT	14	0411	47.80	19	19.82	155	8.63	7.99	4312		.11	.6	.4	SF4	2.2X	181	6
2002	OCT	14	0738	7.64	19	18.94	154	59.22	39.22	4513		.10	.9	.7	LER	1.9X	247	11
2002	OCT	14	0752	27.36	20	20.07	155	35.45	5.84	19	6	.09	1.4	.9	KOH	1.6X	291	30
2002	OCT	14	0908	17.79	19	25.21	155	15.95	14.07	3811		.08	.5	.3	DEP	1.6X	98	2
2002	OCT	14	1017	29.35	19	19.12	154	59.19	39.26	4914		.10	.8	.5	LER	2.3X	239	11
2002	OCT	14	1213	5.16	19	14.91	155	29.42	2.59	3913		.11	.3	.7	LSW	1.4X	82	10
2002	OCT	14	1627	48.53	20	0.68	155	31.51	8.40	23	7	.12	.6	.6	KEA	1.6X	189	22
2002	OCT	14	2302	18.60	19	19.58	155	10.31	7.45	31	5	.11	.9	.6	SF3	1.4X	210	6
2002	OCT	14	2345	43.96	19	23.29	154	58.89	7.57	28	1	.16	2.3	.5	LER	1.4X	259	3
2002	OCT	15	0000	17.37	19	13.56	155	29.08	39.20	4815		.09	.5	.9	DLS	2.5X	96	8
2002	OCT	15	0105	43.36	19	18.90	154	36.37	42.31	38	7	.14	1.8	1.4	DIS	2.4X	297	41
2002	OCT	15	0928	7.45	19	20.51	155	5.73	6.37	24	6	.10	.6	1.2	SF4	1.3X	159	6
2002	OCT	15	1441	14.73	19	18.57	155	8.35	5.40	29	8	.09	.7	1.2	SF4	1.5X	222	8
2002	OCT	15	1900	34.46	19	23.34	155	17.67	11.90	24	4	.10	.6	.8	INTL	1.3X	121	1
2002	OCT	16	0322	58.89	19	22.46	155	10.77	2.26	20	6	.14	1.1	.4	SER	1.5X	187	1
2002	OCT	16	0533	15.82	19	19.65	155	8.64	5.94	34	8	.12	.6	.8	SF4	1.5X	214	6
2002	OCT	16	1106	45.99	19	12.81	155	30.61	0.55	4215		.12	.3	.2	LSW	1.8X	79	8
2002	OCT	16	1849	38.05	19	18.80	155	8.25	6.65	3110		.12	.6	.9	SF4	1.5X	222	8
2002	OCT	16	1948	30.44	19	15.82	155	27.56	7.16	4011		.14	.4	1.0	LSW	1.8X	113	11
2002	OCT	17	0105	26.36	19	21.30	155	30.56	10.02	22	6	.11	.5	1.1	KAO	1.1X	172	6
2002	OCT	17	0411	28.01	19	16.82	155	28.95	4.75	23	3	.07	.4	1.7	LSW	1.4X	115	11
2002	OCT	17	0813	34.49	19	18.35	155	13.22	5.75	32	9	.11	.4	1.0	SF2	1.4X	128	2
2002	OCT	17	1230	31.65	19	24.70	154	46.58	40.40	29	5	.13	1.7	1.4	LER	1.6X	288	21
2002	OCT	17	1852	41.58	19	19.44	155	6.79	6.86	4012		.11	.6	.5	SF4	2.0X	191	7
2002	OCT	18	0415	49.79	19	18.74	155	5.75	6.93	24	7	.10	.8	1.0	SF4	1.3X	296	9
2002	OCT	18	0437	36.35	19	12.85	155	27.21	34.94	3310		.08	.6	1.1	DLS	1.4X	143	6
2002	OCT	18	0545	27.12	19	18.87	155	6.89	5.32	3511		.11	.7	1.1	SF4	1.7X	264	8
2002	OCT	18	1224	51.37	19	45.99	155	53.73	28.80	4310		.10	.8	1.3	HUA	2.4X	192	11
2002	OCT	18	1236	6.59	19	8.83	155	33.28	0.02	33	9	.13	.4	.2	LSW #	1.6X	131	10
2002	OCT	18	1827	25.63	19	20.14	155	7.52	9.14	37	9	.13	.8	.6	SF4F	2.9X	183	6
2002	OCT	18	1858	36.02	19	20.21	155	7.41	9.52	37	6	.11	.8	.4	SF4F	2.6X	183	6
2002	OCT	18	1858	58.08	19	19.33	155	7.50	8.24	19	6	.12	.8	.8	SF4	2.4X	261	7
2002	OCT	18	1923	52.94	19	20.49	155	7.13	7.49	38	9	.10	.6	.5	SF4	1.9X	182	5
2002	OCT	19	0829	16.83	19	28.56	154	52.19	0.84	32	8	.17	2.1	.9	SLE	1.9X	275	13
2002	OCT	19	1046	40.92	19	25.25	155	39.27	3.43	17	4	.10	.7	.6	MLO	1.3X	206	3
2002	OCT	20	0359	51.48	19	28.62	155	27.12	4.75	29	8	.10	.3	2.5	KAO	1.4X	57	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	OCT	20	0422	55.20	19	37.95	156	27.42	25.92	21	6	.11	1.4	5.9	DIS	1.8X	296	74
2002	OCT	20	1055	14.93	19	26.83	155	28.97	10.40	23	5	.11	.5	1.1	KAO	1.1X	80	8
2002	OCT	20	1932	8.77	19	21.50	155	13.62	36.48	4411		.10	.6	.7	DEP	2.2X	153	2
2002	OCT	21	0025	23.72	19	13.02	155	25.83	1.18	29	8	.12	.3	.4	LSW	1.2X	153	7
2002	OCT	21	0424	5.57	19	30.00	155	28.47	5.05	21	5	.11	.3	1.6	MLO	1.3X	72	4
2002	OCT	21	0529	27.13	19	22.89	155	17.27	2.21	18	5	.04	.3	.2	SSC	1.4X	135	1
2002	OCT	21	0724	21.02	19	18.91	155	25.85	10.36	21	7	.09	.5	.7	LSW	1.1X	219	5
2002	OCT	21	0805	31.47	19	25.49	155	15.35	13.06	25	7	.13	1.0	.5	DEPL	1.6X	218	3
2002	OCT	21	0838	26.41	19	21.35	155	10.05	3.10	24	9	.07	.6	.3	SER	1.9X	190	3
2002	OCT	21	0905	34.42	19	55.87	155	32.59	19.08	22	5	.09	.8	1.3	KEA	1.4X	224	15
2002	OCT	21	1529	36.91	19	18.81	155	1.51	35.38	4314		.11	.9	.8	DEP	2.1X	228	13
2002	OCT	21	1825	30.42	19	28.36	155	52.18	11.16	26	6	.15	1.0	.6	KON	1.5X	205	12
2002	OCT	22	0429	53.62	19	17.99	155	12.33	7.69	26	6	.13	.7	1.0	SF2	1.2X	239	9
2002	OCT	22	1319	50.04	19	34.49	155	41.54	7.22	29	7	.10	.4	1.9	MLO	1.7X	96	11
2002	OCT	22	1829	18.17	19	24.01	155	47.90	10.44	18	5	.11	.9	1.3	KON	1.1X	244	13
2002	OCT	23	0116	9.32	19	32.35	155	35.48	12.20	24	7	.13	.4	.7	MLO	.8X	101	1
2002	OCT	23	0124	20.74	19	30.08	155	42.40	2.73	19	7	.15	.6	1.2	MLO	1.2X	114	6
2002	OCT	23	0133	11.54	19	19.92	155	10.21	7.95	36	8	.13	1.0	.6	SF3	1.2X	208	5
2002	OCT	23	0323	33.59	19	32.62	155	35.14	10.71	13	3	.14	.6	1.1	MLO	.8X	115	1
2002	OCT	23	1747	19.06	19	51.66	155	11.64	0.30	25	9	.16	.9	.3	KEA	1.4X	213	16
2002	OCT	24	0238	41.69	19	28.59	155	37.20	11.99	27	8	.12	.5	.5	MLO	1.8X	83	2
2002	OCT	24	0418	18.32	19	55.42	155	25.12	12.46	8	3	.04	1.4	.5	KEA	1.5X	220	9
2002	OCT	24	0707	49.36	19	55.41	155	22.49	19.61	3911		.09	.6	1.1	KEA	2.0X	226	5
2002	OCT	24	0720	54.25	19	24.42	155	37.50	2.45	20	6	.22	.6	.4	MLO	1.4X	112	1
2002	OCT	24	0951	41.82	19	18.88	155	7.00	6.85	3410		.10	.7	.7	SF4	1.8X	263	8
2002	OCT	24	1235	57.83	19	21.26	155	29.75	10.91	33	9	.12	.5	.9	KAO	1.5X	133	4
2002	OCT	24	1645	34.09	19	19.38	155	11.93	5.99	3812		.11	.6	.9	SF3	1.6X	230	6
2002	OCT	24	1820	26.21	19	24.12	155	37.56	0.93	15	4	.22	.6	.8	MLO	1.0X	123	6
2002	OCT	25	0146	48.98	19	25.61	155	37.08	0.02	17	5	.11	.3	.3	MLO #	.8X	97	3
2002	OCT	25	0149	50.86	19	25.18	155	37.48	2.27	22	7	.10	.3	.3	MLO	1.8X	104	2
2002	OCT	25	0225	54.29	19	25.27	155	37.50	2.35	31	7	.11	.3	.3	MLO	2.0X	107	2
2002	OCT	25	0332	44.64	19	27.55	155	24.51	10.74	3411		.12	.4	.8	KAO	1.4X	41	5
2002	OCT	25	0400	37.26	19	22.09	155	26.51	10.75	4614		.12	.4	.5	KAO	2.4X	65	2
2002	OCT	25	0731	53.71	19	13.29	155	37.24	1.93	24	7	.10	.4	.6	LSW	1.5X	91	16
2002	OCT	25	0738	27.05	19	3.60	155	7.70	44.81	35	9	.08	1.1	1.3	LOI	1.9X	258	35
2002	OCT	25	1251	33.65	20	2.71	155	21.99	12.70	17	4	.08	.6	.4	KEA	1.7X	189	14
2002	OCT	25	1820	34.62	19	26.98	155	36.13	5.25	12	3	.16	.7	1.1	MLO	.8X	118	1
2002	OCT	25	2007	21.07	19	25.06	155	15.54	11.50	20	5	.11	.9	.7	INTL	1.6X	209	4
2002	OCT	25	2057	21.62	20	7.11	155	45.69	23.64	26	7	.12	1.0	1.4	KOH	1.9X	179	2
2002	OCT	26	0138	15.83	19	32.57	155	44.05	9.86	29	8	.12	.5	.6	KON	1.7X	104	5
2002	OCT	26	0153	19.33	19	25.50	155	15.25	14.34	19	7	.11	1.0	.4	DEPL	1.4X	242	4
2002	OCT	26	0209	37.12	19	24.22	155	29.82	9.32	36	9	.10	.3	.6	KAO	1.5X	43	5
2002	OCT	26	0424	49.71	19	29.55	155	26.36	7.08	20	7	.10	.4	1.0	KAO	1.3X	106	5
2002	OCT	26	0538	18.30	19	56.54	155	23.81	7.95	18	5	.13	.8	1.0	KEA	.9X	243	8
2002	OCT	26	0645	58.38	19	20.05	155	5.32	6.27	4311		.11	.5	.6	SF4	2.0X	194	7

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	OCT	26	1252	13.13	19	23.17	155	14.64	3.32	30	9	.10	.3	.3	SEC	2.0X	111	3
2002	OCT	26	1855	10.54	19	18.44	155	7.72	4.24	3512		.10	.6	2.2	SSF	1.6X	225	9
2002	OCT	26	2140	45.15	19	17.93	155	14.86	8.55	4111		.14	.5	.6	SF1	1.4X	172	8
2002	OCT	27	0104	41.59	19	16.48	155	34.08	9.94	23	5	.11	.4	1.6	LSW	1.4X	99	14
2002	OCT	27	0206	42.67	19	23.44	155	17.09	2.73	17	6	.07	.3	.2	SSC	1.3X	110	0
2002	OCT	27	0231	2.36	19	20.48	155	10.73	8.60	3610		.09	.8	.4	SF3	1.5X	202	4
2002	OCT	27	0644	27.77	19	20.67	155	10.75	7.87	23	7	.13	.9	1.0	SF3	1.4X	254	4
2002	OCT	27	1403	39.35	19	12.68	155	11.41	29.63	27	7	.10	1.5	1.4	DEP	1.5X	270	17
2002	OCT	27	1439	40.39	19	12.99	155	32.76	0.34	3912		.15	.4	.2	LSW	1.8X	140	20
2002	OCT	27	2216	32.36	19	58.92	155	31.12	36.21	20	6	.09	.8	1.0	KEA	1.3X	251	20
2002	OCT	27	2228	23.52	19	17.41	155	23.40	6.12	29	8	.12	.4	1.5	SWR	1.5X	141	5
2002	OCT	28	0125	19.26	19	18.10	155	0.69	38.21	3511	.09	1.1	.8	DEP	1.7X	262	13	
2002	OCT	28	0200	55.71	19	29.46	155	27.35	7.76	28	9	.11	.3	.9	KAO	1.4X	70	5
2002	OCT	28	0606	9.51	19	14.29	155	33.04	0.65	4614		.15	.4	.2	LSW	2.3X	133	18
2002	OCT	28	0616	3.28	19	18.53	155	14.78	5.80	33	9	.11	.6	.9	SF1	1.5X	211	7
2002	OCT	28	0752	12.43	19	6.90	155	9.21	16.45	4713		.12	.9	9.6	LOI	2.7X	227	28
2002	OCT	28	1133	1.41	19	18.25	155	10.67	30.06	21	5	.09	1.4	1.0	DEP	1.5X	271	8
2002	OCT	28	1239	35.96	19	11.04	155	31.49	7.26	4010		.13	.4	1.0	LSW	2.0X	100	7
2002	OCT	28	1609	26.09	19	27.90	154	46.59	16.39	19	5	.10	2.3	14.2	LER -	1.6X	301	37
2002	OCT	28	1721	29.04	19	20.90	155	13.01	7.40	4311		.14	.5	.4	SF2	1.6X	106	3
2002	OCT	28	1827	36.22	19	18.53	155	30.47	3.87	38	9	.13	.4	1.7	LSW	1.6X	87	9
2002	OCT	28	2020	58.92	19	20.03	155	15.90	4.95	3010		.12	.4	1.2	SSF	1.3X	156	4
2002	OCT	28	2109	16.67	19	17.88	155	12.74	8.60	4011		.11	.5	.6	SF2	1.8X	179	9
2002	OCT	28	2134	10.90	19	16.70	155	12.79	1.40	23	8	.08	1.4	.8	SSF	1.4X	245	11
2002	OCT	29	0131	34.15	19	1.19	155	27.83	56.38	23	6	.11	1.3	1.2	DLST	2.6X	222	15
2002	OCT	29	0346	45.25	19	24.57	155	16.54	1.69	18	6	.09	.2	.2	SNC	1.5X	89	1
2002	OCT	29	0717	15.87	19	24.13	155	25.67	9.78	36	9	.12	.4	.7	KAO	1.3X	59	5
2002	OCT	29	0839	21.64	19	23.68	155	30.10	8.96	4110		.11	.3	.7	KAO	1.8X	53	5
2002	OCT	29	1135	34.75	19	27.28	155	26.13	3.87	27	8	.12	.3	1.6	KAO	1.2X	50	7
2002	OCT	29	1216	22.58	20	24.45	156	3.01	28.32	24	7	.12	1.4	2.1	KOH	2.1X	166	41
2002	OCT	29	1542	44.38	17	36.64	155	49.75	6.86	34	8	.12	9.1	11.1	DIS -	2.9X	336	153
2002	OCT	29	1825	39.75	19	11.01	155	18.75	37.06	24	7	.13	1.3	1.8	DEP	1.8X	245	19
2002	OCT	29	1832	40.75	19	14.59	155	19.68	54.42	17	6	.12	2.3	1.2	DEPT	2.3X	276	12
2002	OCT	29	2214	52.39	19	15.75	155	31.01	3.78	15	3	.10	.5	3.3	LSW	1.3X	150	13
2002	OCT	30	0023	32.96	19	47.50	155	35.59	14.06	19	5	.08	.5	.6	KEA	1.4X	109	10
2002	OCT	30	0738	26.25	20	0.40	155	39.00	17.52	3810		.09	.5	2.0	KOHF	2.2X	156	16
2002	OCT	30	0943	55.87	19	13.14	155	25.74	32.12	3211		.11	.6	1.0	DLS	1.6X	161	8
2002	OCT	30	1001	28.96	19	29.79	155	28.15	6.49	4511		.11	.3	.9	KAO	2.7X	47	4
2002	OCT	30	1349	13.10	19	18.06	155	8.12	3.61	3411		.12	1.4	2.5	SSF	1.3X	263	9
2002	OCT	30	1351	42.90	19	18.18	155	8.04	6.16	3512		.09	.7	1.2	SF4	1.8X	263	9
2002	OCT	30	1352	25.49	19	18.41	155	8.15	4.10	3011		.09	.9	3.1	SSF	1.6X	262	9
2002	OCT	30	1455	56.19	19	18.41	155	8.24	4.57	4014		.10	.6	2.4	SSF	1.6X	223	9
2002	OCT	30	1458	30.04	19	18.65	155	8.62	4.00	2910		.10	1.3	3.7	SSF	1.3X	266	8
2002	OCT	30	1726	47.23	19	12.85	155	25.25	33.32	4615		.10	.6	.9	DLS	2.2X	154	8
2002	OCT	30	1908	21.35	19	19.98	155	24.62	10.22	23	5	.10	.5	.6	SWR	1.2X	164	2
2002	OCT	30	2133	45.85	19	16.58	155	7.49	42.13	4111		.13	.9	.9	DEP	2.1X	206	12
2002	OCT	31	0528	57.57	19	29.27	155	27.16	8.61	4411		.12	.3	.8	KAO	2.5X	47	5
2002	OCT	31	0626	52.73	19	17.96	155	13.16	2.78	31	9	.11	.5	.9	SSF	1.2X	216	9
2002	OCT	31	0943	2.25	19	16.74	155	10.28	32.91	22	5	.10	1.6	1.4	DEP	1.4X	260	11
2002	OCT	31	1309	24.79	19	21.81	155	28.05	8.95	25	7	.11	.6	.9	KAO	1.2X	160	1
2002	OCT	31	1847	19.90	19	20.29	155	7.30	8.28	4311		.11	.6	.4	SF4	2.6X	177	6
2002	OCT	31	1847	59.60	19	19.40	155	7.35	6.60	4011		.13	.6	.9	SF4	2.5X	190	7
2002	OCT	31	1849	12.17	19	18.78	155	6.90	3.10	24	8	.12	.8	1.1	SSF	1.8X	226	8
2002	OCT	31	1901	47.19	19	19.14	155	7.05	5.24	4114		.10	.6	1.0	SF4	1.8X	222	8
2002	OCT	31	1921	47.90	19	10.86	155	16.41	43.36	20	5	.11	1.3	1.8	DEP	1.6X	265	21
2002	OCT	31	2056	10.18	19	0.03	156	35.73	23.20	11		.12	9.5	12.1	DIS -		299	104
2002	OCT	31	2056	29.61	19	28.20	155	14.29	24.86	20	8	.13	1.5	.8	DEP	1.3X	287	4
2002	OCT	31	2218	6.18	19	23.50	155	21.58	10.46	3611		.07	.4	.6	KAO	1.3X	106	3
2002	OCT	31	2247	4.86	19	19.75	155	7.08	7.49	38	9	.11	.5	.6	SF4	2.2X	188	7
2002	OCT	31	2339	52.40	19	29.21	154	59.95	7.57	16	1	.12	3.3	1.0	LER	1.7X	250	24
2002	NOV	1	0432	10.89	19	1.23	155	7.25	42.19	4212		.10	.9	1.3	LOI	2.0X	248	39
2002	NOV	1	0626	43.84	19	16.56	155	6.43	42.01	3510		.12	1.2	.8	DEP	1.7X	239	13
2002	NOV	1	1019	47.17	19	19.86	155	6.92	6.36	28	8	.11	.5	.8	SF4	1.3X	147	5
2002	NOV	1	1317	14.78	19	29.36	155	5.62	43.42	29	9	.10	1.9	.8	DEP	2.0X	194	12
2002	NOV	1	1434	57.40	19	9.87	155	24.41	49.92	10		.09	4.7	9.2	LOIT-		247	6
2002	NOV	1	2147	7.47	19	23.38	155	16.95	6.96	13	2	.08	.6	.9	INTL	1.5X	109	1
2002	NOV	2	0341	51.11	19	24.78	155	16.12	2.08	12	2	.09	.4	.5	SNCL	1.9X	102	2
2002	NOV	2	0700	33.75	19	18.18	155	3.62	6.37	31	7	.11	.7	1.0	SF5	1.8X	243	12
2002	NOV	2	0745	54.51	19	4.32	155	23.86	35.14	21	3	.07	1.1	1.6	LOI	1.6X	228	12
2002	NOV	2	0800	38.20	19	24.73	155	17.43	7.23	16		.11	.6	1.2	INTL	1.4X	78	1
2002	NOV	2	1000	27.82	19	26.47	155	28.92	8.22	30	9	.10	.3	1.0	KAO	1.3X	48	8
2002	NOV	2	1150	34.18	19	23.65	155	16.82	16.28	26	7	.16	1.2	.6	DEPL	1.8X	47	1
2002	NOV	2	1152	26.79	19	24.79	155	17.82	4.50	18	6	.11	.4	.6	SNCL	1.6X	96	1
2002	NOV	2	1408	18.72	19	32.97	155	55.81	10.08	25	4	.20	1.5	.9	KON	1.7X	234	18
2002	NOV	2	1733	6.54	19	23.03	155	17.19	10.98	20	5	.09	.5	.6	INTL	1.6X	127	2
2002	NOV	2	1744	11.07	19	16.70	155	6.59	42.15	34	9	.12	1.4	.9	DEP	1.7X	238	3
2002	NOV	2	2004	9.16	20	21.85	156	12.41	6.32	24	8	.17	2.0	1.5	KOH	2.0X	183	38
2002	NOV	2	2152	21.59	19	19.19	155	1.03	38.52	3712		.10	1.1	.7	DEP	1.7X	253	12
2002	NOV	2	2227	22.95	18	55.10	155	17.53	38.83	23	5	.08	1.5	1.4	LOI	1.7X	285	32
2002	NOV	2	2256	43.61	19	24.91	155	13.40	1.99	18	6	.10	.4	.3	SER	1.6X	153	2
2002	NOV	2	2308	44.09	19	19.24	155	10.32	7.46	3610		.12	.7	.5	SF3	1.6X	214	7
2002	NOV	2	2351	12.67	19	24.94	155	15.78	9.12	13	1	.13	1.7	2.0	INTL	1.7X	231	2
2002	NOV	2	2359	58.79	19	18.92	155	7.11	7.96	24	3	.09	1.3	.7	SF4	1.4X	263	8
2002	NOV	3	0436	22.22	19	17.06	155	7.13	40.08	24	3	.12	1.5	1.7	DEP	1.4X	235	12
2002	NOV	3	1817	51.06	19	12.27	155	25.03	34.80	3612		.11	.7	1.0	DLS	1.8X	163	7
2002	NOV	3	1842	50.08	19	24.68	155	16.44	1.39	18	6	.11	.3	.2	SNC	1.8X	141	1
2002	NOV	3	2106	11.45	20	45.48	155	24.27	16.91	25	7	.08	1.2	13.5	DIS -	2.4X	252	80
2002	NOV	3	2123	27.05	19	19.15	155	2.05	1.04	28	5	.12	1.7	.8	SSF	1.8X	247	12
2002	NOV	3	2213	40.50	19	3.35	155	24.26	33.08	18	1	.08	1.4	2.8	LOI	1.4X	232	13
2002	NOV	4	0407	55.93	19	43.81	156	23.55	6.48	20	5	.11	3.2	1.5	DIS	1.7X	328	58

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	NOV	4	0411	51.06	19	19.15	155	7.86	3.13	22	3	.09	.8	1.3	SSF	1.4X	220	8
2002	NOV	4	0500	10.43	19	13.55	155	34.03	2.00	3610		.15	.4	.7	LSW	1.6X	134	18
2002	NOV	4	0607	34.67	20	14.09	155	49.98	37.75	28	8	.12	1.2	1.0	KOH	1.9X	303	13
2002	NOV	4	0804	56.30	19	28.79	154	52.24	0.03	29	6	.14	2.0	.6	SLEF#	2.0X	273	13
2002	NOV	4	0905	47.75	19	16.12	155	9.10	35.58	3511		.11	.9	.9	DEP	1.5X	193	12
2002	NOV	4	0938	55.00	19	57.95	155	31.13	41.58	3713		.11	.7	.9	KEA	1.8X	170	19
2002	NOV	4	1108	41.24	19	41.43	155	16.41	30.65	4415		.11	.5	1.0	KEA	2.0X	105	23
2002	NOV	4	1109	44.24	19	24.44	155	17.44	3.08	15	2	.09	.4	.6	SSCL	1.2X	101	2
2002	NOV	4	2223	35.65	19	25.65	155	19.05	6.88	19	4	.10	.5	1.1	KAO	1.3X	87	3
2002	NOV	4	2304	10.56	19	31.73	155	13.35	25.92	4512		.11	.5	.9	DEPF	2.9X	69	9
2002	NOV	5	0003	57.67	19	34.37	155	12.04	22.82	4013		.12	.4	1.1	DEP	1.5X	75	15
2002	NOV	5	0108	27.42	19	2.95	155	26.72	35.63	3813		.09	.7	.9	DLS	1.6X	203	12
2002	NOV	5	0232	50.19	19	23.41	155	16.20	10.37	24	6	.12	.6	.5	INTL	1.5X	81	1
2002	NOV	5	0236	51.95	19	25.15	155	16.55	12.19	22	5	.11	.8	.7	INTL	2.0X	104	1
2002	NOV	5	1058	53.26	19	28.34	155	27.89	4.16	31	8	.12	.3	2.5	KAO	1.8X	61	7
2002	NOV	5	1104	57.25	19	29.00	155	27.83	8.40	22	7	.12	.4	1.0	KAO	1.3X	77	6
2002	NOV	5	1139	49.42	19	19.16	155	13.64	9.02	30	4	.11	.7	.6	SF2	1.5X	182	6
2002	NOV	5	1156	47.51	19	12.77	155	25.08	34.79	20	7	.12	1.6	1.2	DLS	1.5X	260	14
2002	NOV	5	1254	17.41	19	23.67	155	15.43	12.75	17	4	.14	1.1	.7	INTL	1.5X	155	2
2002	NOV	5	1930	34.85	19	52.67	155	49.05	37.86	19	4	.09	1.1	1.5	HUA	1.2X	261	17
2002	NOV	5	2100	42.88	19	1.07	155	26.40	36.65	4816		.09	.7	1.0	DLS	2.6X	214	16
2002	NOV	5	2140	5.93	19	14.89	155	32.84	7.35	27	8	.14	.4	1.2	LSW	1.2X	79	13
2002	NOV	6	0053	0.26	18	56.34	155	11.54	11.64	23	7	.13	4.0	5.0	LOI	1.5X	287	49
2002	NOV	6	0124	13.05	19	16.85	155	33.89	2.59	3910		.13	.3	.8	LSW	1.7X	72	14
2002	NOV	6	0622	9.27	19	17.54	155	12.48	9.47	36	8	.08	.6	.5	SF2	2.0X	183	9
2002	NOV	6	0757	15.13	19	18.88	155	8.16	41.18	2510		.07	2.7	1.0	DEP	2.3X	221	8
2002	NOV	6	0922	43.84	19	17.14	155	12.14	8.94	29	5	.12	.9	.9	SF3	1.5X	186	10
2002	NOV	6	0937	13.02	19	18.32	155	15.18	8.70	29	4	.09	.9	.6	SF1	1.5X	223	5
2002	NOV	6	1230	37.94	19	31.17	155	52.28	7.84	33	9	.13	.7	.4	KON	2.0X	226	11
2002	NOV	6	1239	2.87	19	25.24	155	29.88	10.65	29	8	.08	.4	.8	KAO	1.5X	51	6
2002	NOV	6	1619	32.66	19	30.35	156	20.31	5.94	29	6	.13	1.1	1.4	DIS	1.9X	229	56
2002	NOV	6	1830	59.25	19	22.53	155	29.96	11.22	21	7	.12	.6	1.1	KAO	1.1X	154	4
2002	NOV	6	2051	48.36	19	26.32	155	18.64	8.05	19	7	.12	.6	1.1	INT	1.0X	95	2
2002	NOV	6	2107	37.78	19	45.99	155	26.70	23.84	25	5	.09	.6	1.1	KEA	1.2X	79	2
2002	NOV	6	2249	37.76	19	53.40	156	45.51	7.84	30	9	.13	2.5	3.2	DIS	2.2X	255	99
2002	NOV	7	0242	6.51	19	19.89	155	10.55	7.58	3611		.10	.7	.5	SF3	1.6X	208	5
2002	NOV	7	0403	58.93	19	20.31	155	10.35	8.03	3810		.12	.6	.4	SF3	1.8X	172	5
2002	NOV	7	0406	33.74	19	18.51	155	10.55	3.76	22	7	.11	1.2	2.9	SSF	1.3X	250	8
2002	NOV	7	0659	47.64	19	25.28	155	17.02	6.57	18	6	.12	.6	.8	INTL	1.6X	96	1
2002	NOV	7	1356	53.80	19	27.22	155	29.59	9.54	21	6	.08	.4	1.2	KAO	1.9X	82	9
2002	NOV	7	1846	1.64	19	24.60	155	15.57	1.68	18	6	.09	.3	.2	SNCL	1.1X	133	2
2002	NOV	8	0246	2.90	19	12.14	155	25.06	34.40	4214		.12	.7	1.0	DLS	1.8X	171	7
2002	NOV	8	0910	45.69	19	26.86	154	40.95	30.55	3812		.13	1.1	1.8	LER	2.1X	312	31
2002	NOV	8	1323	44.56	19	11.71	155	40.57	9.45	16	3	.16	1.0	4.0	LSW	1.4X	168	18
2002	NOV	8	1353	1.46	19	23.98	155	25.39	11.25	22	4	.10	.6	1.1	KAO	1.4X	84	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	NOV	8	1440	53.74	19	20.90	155	26.86	10.17	20	4	.11	.5	1.0	KAO	1.1X	88	3
2002	NOV	8	1501	11.80	19	26.11	155	30.21	10.13	4311		.10	.3	.5	KAO	2.7X	38	8
2002	NOV	8	1527	53.48	19	12.43	155	25.26	34.91	4211		.10	.7	1.0	DLS	2.4X	158	7
2002	NOV	8	2113	34.76	19	17.08	155	7.67	6.99	21	3	.11	1.5	1.0	SF4	1.7X	282	11
2002	NOV	8	2126	5.18	19	20.51	155	9.03	6.62	30	5	.13	.9	.8	SF4	1.9X	215	5
2002	NOV	8	2312	42.73	19	22.73	154	59.44	3.82	20	3	.11	1.3	1.9	SLE	1.3X	311	14
2002	NOV	9	1344	52.91	19	26.72	155	19.47	6.13	18	4	.08	.6	1.1	KAO	1.4X	111	4
2002	NOV	9	1845	48.02	19	21.92	155	4.94	6.34	25	4	.14	1.0	.8	SF5	1.7X	204	5
2002	NOV	10	0243	27.68	19	16.89	155	1.45	44.84	19	3	.11	2.4	1.1	DEP	1.6X	261	16
2002	NOV	10	0316	55.47	18	55.04	155	16.84	16.68	20	5	.13	1.9	15.6	LOI -	1.7X	280	33
2002	NOV	10	1445	55.40	19	17.87	155	23.42	4.95	36	4	.15	.5	1.3	SWR	2.0X	135	4
2002	NOV	10	1750	27.09	19	14.46	155	6.84	42.12	25	5	.11	1.9	1.3	DEP	1.4X	288	16
2002	NOV	10	1907	9.70	19	18.62	155	27.17	50.58	21	5	.14	1.2	2.0	DLS	1.5X	115	7
2002	NOV	10	2010	25.89	19	13.20	155	30.03	40.90	17	2	.08	1.1	2.0	DLS	2.3X	107	8
2002	NOV	10	2141	47.98	19	28.44	155	52.53	9.06	19	3	.17	1.8	.9	KON	1.4X	249	12
2002	NOV	10	2247	30.39	19	12.75	155	24.99	36.93	30	7	.12	.9	1.2	DEP	1.6X	158	8
2002	NOV	11	0435	3.99	19	24.24	155	26.88	9.25	25	5	.10	.4	.9	KAO	1.3X	63	3
2002	NOV	11	0459	48.95	19	39.90	155	14.05	16.29	22	8	.08	.5	2.5	KEA	1.5X	103	22
2002	NOV	11	0537	14.52	19	47.53	155	36.24	14.99	23	6	.11	.6	.7	KEA	1.9X	113	9
2002	NOV	11	0926	52.51	18	55.29	155	16.87	16.65	21	4	.11	1.6	14.4	LOI -	1.7X	267	33
2002	NOV	11	0939	58.37	18	54.97	155	16.54	19.41	19	4	.12	2.1	7.4	LOI	1.7X	275	33
2002	NOV	11	0954	32.76	18	54.39	155	16.10	17.03	14	2	.09	2.3	13.6	LOI -	1.7X	284	35
2002	NOV	11	0955	23.52	18	53.76	155	15.95	21.44	17	2	.10	2.3	5.7	LOI	1.7X	278	36
2002	NOV	11	1000	44.99	18	54.32	155	15.94	14.80	24	5	.12	2.5	3.9	LOI	2.0X	277	35
2002	NOV	11	1003	16.71	19	14.99	155	5.71	46.09	26	3	.08	1.3	2.0	DEP	1.5X	237	16
2002	NOV	11	1004	51.84	18	55.26	155	16.86	15.18	22	5	.09	1.6	3.2	LOI	1.6X	267	33
2002	NOV	11	1006	21.28	18	55.18	155	17.00	21.51	16	3	.09	1.8	5.2	LOI	1.5X	267	33
2002	NOV	11	1012	14.29	18	55.34	155	16.61	18.32	33	7	.12	1.4	6.6	LOI	2.1X	264	33
2002	NOV	11	1021	3.62	18	58.06	155	17.40	13.45	23	5	.12	1.6	1.1	LOI	1.9X	258	28
2002	NOV	11	1024	7.38	18	54.05	155	15.83	16.30	21	4	.11	1.9	11.2	LOI -	1.7X	273	35
2002	NOV	11	1024	38.91	19	23.84	155	15.41	2.70	15	4	.04	.3	.4	SEC	1.0X	103	2
2002	NOV	11	1027	3.94	18	54.79	155	16.46	12.88	16	4	.11	6.6	9.8	LOI -	1.6X	269	42
2002	NOV	11	1030	55.58	18	54.94	155	16.44	17.30	28	6	.10	1.6	13.0	LOI -	2.1X	269	34
2002	NOV	11	1035	11.25	18	54.42	155	16.37	20.97	19	3	.12	2.3	6.3	LOI	1.7X	282	34
2002	NOV	11	1038	34.60	18	54.19	155	16.42	22.86	22	5	.09	1.7	3.8	LOI	2.1X	271	35
2002	NOV	11	1042	52.13	18	54.48	155	16.05	16.55	31	5	.10	1.4	13.2	LOI -	2.0X	267	35
2002	NOV	11	1100	53.14	18	54.28	155	15.96	17.51	32	7	.11	1.5	12.1	LOI -	2.2X	267	35
2002	NOV	11	1110	57.63	18	58.87	155	19.87	11.36	18	2	.10	2.9	.8	LOI	1.7X	311	39
2002	NOV	11	1134	27.17	18	55.02	155	16.38	17.45	32	6	.12	1.7	13.0	LOI -	2.1X	264	33
2002	NOV	11	1151	14.71	18	54.88	155	16.69	17.20	14	3	.11	1.9	15.2	LOI -	1.6X	274	41
2002	NOV	11	1228	15.60	18	55.11	155	16.64	19.78	22	4	.11	1.8	6.5	LOI	2.1X	264	33
2002	NOV	11	1232	23.46	19	19.75	155	7.64	8.03	30	4	.12	1.2	.6	SF4	2.0X	215	7
2002	NOV	11	1254	2.39	18	56.58	155	16.78	10.49	22	3	.14	1.9	.9	LOI	1.8X	260	41
2002	NOV	11	1329	53.12	19	12.01	155	25.13	35.19	25	7	.09	.9	1.2	DLS	1.6X	181	15
2002	NOV	11	1345	31.78	19	12.59	155	25.07	35.11	4113		.10	.7	1.0	DLS	1.9X	164	8

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	NOV	11	1355	50.59	19	18.72	155	13.95	8.80	23	3	.11	1.1	.7	SF2	1.5X	225	7
2002	NOV	11	2127	49.81	19	15.05	155	6.47	44.39	25	4	.11	1.6	1.7	DEP	1.5X	246	18
2002	NOV	11	2130	34.12	19	24.63	155	37.91	2.91	40	9	.14	.3	.4	MLO	2.8X	96	1
2002	NOV	11	2333	46.27	19	21.42	155	18.31	13.03	11	3	.10	2.3	1.3	DEPL	2.2X	251	4
2002	NOV	12	0000	55.24	19	23.76	155	14.77	3.24	33	7	.11	.3	.3	SEC	2.5X	94	2
2002	NOV	12	0333	55.31	19	12.07	155	25.09	36.47	22	3	.11	1.0	1.6	DLS	1.2X	186	7
2002	NOV	12	0637	22.98	19	23.54	155	15.00	0.72	4210		.11	.2	.3	SECF	2.8X	101	2
2002	NOV	12	1004	37.79	18	53.83	155	16.01	15.62	28	6	.12	1.8	4.8	LOI	1.8X	256	36
2002	NOV	12	1013	43.11	18	54.68	155	16.32	17.55	30	7	.13	1.41	2.3	LOI -	2.0X	253	34
2002	NOV	12	1136	9.48	19	29.23	155	26.13	9.74	27	8	.11	.4	.9	KAO	1.5X	66	5
2002	NOV	12	1332	3.43	19	22.87	155	13.98	3.83	23	7	.10	.5	.5	SEC	1.8X	124	2
2002	NOV	12	1354	56.25	18	55.87	155	17.11	17.32	24	7	.12	1.61	2.6	LOI -	2.0X	274	31
2002	NOV	12	1545	35.28	19	16.30	155	6.99	43.24	38	8	.12	1.1	.8	DEP	1.9X	219	13
2002	NOV	12	1709	45.69	19	33.69	155	37.24	9.57	21	4	.11	.7	1.2	MLO	1.5X	181	8
2002	NOV	12	1710	11.42	19	33.88	155	37.33	8.23	32	8	.11	.4	.9	MLO	2.0X	106	9
2002	NOV	12	2254	28.81	19	9.88	155	38.02	2.01	20	4	.10	.5	1.0	LSW	1.6X	98	14
2002	NOV	13	0755	11.37	19	14.62	155	7.62	39.79	18	4	.11	2.4	1.4	DEP	1.4X	299	16
2002	NOV	13	1157	15.85	19	7.88	155	35.41	0.82	17	3	.11	.5	.5	LSW	1.5X	131	14
2002	NOV	13	1624	22.18	20	7.78	155	45.94	25.59	20	6	.11	1.1	1.3	KOH	2.1X	216	1
2002	NOV	13	2028	30.99	19	21.03	155	18.37	1.32	16	5	.10	.5	.7	SWR	1.2X	188	5
2002	NOV	13	2031	6.91	19	46.18	155	46.22	19.20	15	4	.15	1.3	2.7	HUA	1.3X	190	12
2002	NOV	13	2208	19.43	19	23.84	155	30.05	9.71	29	6	.11	.4	.6	KAO	1.9X	106	5
2002	NOV	13	2226	11.05	19	19.86	155	3.41	9.06	40	8	.11	.8	.4	SF5F	2.4X	199	10
2002	NOV	13	2314	43.96	19	36.37	156	3.14	39.25	23	8	.11	1.2	1.8	KON	1.4X	280	24
2002	NOV	13	2347	11.33	19	4.67	155	40.06	24.73	21	5	.09	1.0	2.1	DLS	1.6X	132	11
2002	NOV	14	0102	57.89	19	19.87	155	12.43	8.49	35	8	.12	.9	.5	SF2	1.5X	205	5
2002	NOV	14	0449	6.89	19	15.86	155	6.83	43.46	38	8	.12	.8	.9	DEP	1.9X	203	14
2002	NOV	14	1118	25.55	19	19.53	154	55.69	0.51	21	4	.12	2.1	.9	SLE	1.8X	286	12
2002	NOV	14	1159	24.55	19	22.31	155	2.33	6.39	27	5	.13	1.1	.8	SF5	1.8X	212	8
2002	NOV	14	1210	54.59	19	13.26	155	32.30	2.29	21	3	.14	.5	1.4	LSW	1.6X	76	10
2002	NOV	14	1552	12.53	19	12.28	155	39.84	3.31	18	4	.13	.6	2.2	LSW	1.7X	99	12
2002	NOV	14	2118	9.74	19	18.58	155	8.41	2.60	24	3	.12	.8	1.4	SSF	1.6X	222	8
2002	NOV	14	2123	36.51	19	19.44	155	8.57	7.39	29	6	.10	1.0	.6	SF4	1.7X	216	7
2002	NOV	15	0155	24.33	19	19.71	155	8.69	8.00	29	4	.12	1.2	.6	SF4	1.7X	213	6
2002	NOV	15	1102	47.47	19	20.40	155	10.80	8.49	26	7	.08	.9	.5	SF3	1.4X	223	5
2002	NOV	15	1534	36.80	19	18.22	155	15.06	8.84	34	5	.12	.8	.5	SF1	1.9X	200	5
2002	NOV	15	1833	50.23	19	51.07	155	22.97	27.47	3014		.12	.5	1.1	KEA	1.8X	132	6
2002	NOV	15	1907	5.80	19	12.82	155	27.86	0.90	30	9	.13	.4	.3	LSW	1.8X	120	6
2002	NOV	15	2324	26.97	19	23.20	155	30.62	11.48	27	8	.11	.4	.7	KAO	1.4X	146	5
2002	NOV	16	0352	5.56	19	17.94	155	28.47	9.01	29	9	.11	.4	.8	LSW	1.4X	112	9
2002	NOV	16	1738	59.35	19	20.88	155	4.31	6.65	3311		.12	.8	.9	SF5	1.9X	217	7
2002	NOV	16	1816	19.67	19	24.11	155	29.40	9.74	31	9	.09	.4	.7	KAO	1.5X	123	4
2002	NOV	17	0056	36.96	19	40.41	155	28.93	25.67	27	6	.10	.6	.9	KEA	1.6X	55	8
2002	NOV	17	0153	40.30	19	12.99	155	19.74	45.09	4511		.12	.7	1.0	DEP	2.9X	176	15
2002	NOV	17	0953	58.80	19	28.93	155	28.13	8.61	17	5	.11	.5	1.1	KAO	1.3X	63	6
2002	NOV	17	1506	36.31	19	25.91	155	28.38	10.45	22	6	.12	.5	1.2	KAO	.9X	80	6
2002	NOV	17	1745	47.54	19	24.92	155	29.50	9.19	34	9	.11	.4	.8	KAO	1.5X	82	6
2002	NOV	17	1910	34.65	19	25.00	155	16.91	12.61	15	4	.08	1.2	.9	INTL	1.4X	204	1
2002	NOV	18	0046	14.80	19	58.33	155	23.39	32.06	3912		.11	.6	1.0	KEA	1.8X	194	10
2002	NOV	18	0814	43.22	19	27.88	155	29.21	11.25	19	6	.13	.6	1.3	KAO	1.1X	67	8
2002	NOV	18	1811	43.93	19	25.02	155	17.00	12.28	18	4	.10	1.0	.8	INTL	1.5X	148	0
2002	NOV	18	2050	7.78	19	19.19	155	8.65	6.01	3312		.11	.6	1.1	SF4	1.3X	260	7
2002	NOV	19	0110	32.09	19	22.85	155	7.52	43.50	4513		.10	.6	.7	DEP	2.8X	159	1
2002	NOV	19	0145	54.77	19	40.32	155	28.83	24.58	18	4	.09	.8	1.3	KEA	1.5X	151	7
2002	NOV	19	0221	8.80	19	25.23	155	37.13	1.97	16	4	.13	.4	.5	MLO	1.3X	106	2
2002	NOV	19	0823	44.81	19	11.88	155	30.79	36.62	16	2	.06	.9	1.8	DLS	1.7X	130	7
2002	NOV	19	1202	47.18	19	24.66	155	16.79	13.52	20	6	.06	.9	.5	DEPL	1.6X	165	2
2002	NOV	19	1237	38.43	19	18.71	155	11.53	2.63	30	9	.11	.9	1.0	SSF	1.4X	238	8
2002	NOV	19	2039	20.83	19	25.56	155	15.69	13.62	22	6	.11	1.1	.4	DEPL	1.3X	173	3
2002	NOV	19	2219	9.52	19	18.70	155	12.59	27.81	26	7	.12	1.4	1.3	DEP	1.5X	232	7
2002	NOV	19	2343	14.83	19	25.97	155	30.64	11.54	18	7	.09	.5	.9	KAO	2.1X	104	4
2002	NOV	20	1241	0.30	19	19.73	155	13.68	8.44	37	9	.11	.4	.6	SF2	1.8X	120	5
2002	NOV	20	1414	1.74	19	14.06	155	19.85	8.48	18	6	.10	.9	2.0	SWR	1.1X	256	12
2002	NOV	20	2158	25.66	19	42.96	155	26.52	25.34	4814		.11	.4	1.0	KEAF	2.3X	63	7
2002	NOV	20	2319	5.88	19	25.72	155	15.99	13.88	17	5	.09	1.0	.5	DEPL	1.1X	182	2
2002	NOV	21	0027	26.22	19	12.03	155	26.51	5.70	19	6	.13	.6	1.7	LSW	1.2X	188	5
2002	NOV	21	0312	8.64	19	21.32	156	2.27	43.68	20	5	.10	1.6	1.8	KON	1.3X	262	33
2002	NOV	21	0324	30.62	19	28.84	155	26.50	10.20	33	9	.13	.4	.8	KAO	1.4X	48	6
2002	NOV	21	0332	31.58	19	10.67	155	39.54	0.89	26	7	.14	.4	.4	LSW	1.5X	87	12
2002	NOV	21	0638	2.33	19	8.83	155	34.48	2.47	20	5	.07	.4	.9	LSW	1.8X	125	12
2002	NOV	21	0710	24.41	19	6.72	155	23.02	45.71	16	4	.10	1.5	2.2	LOI	1.8X	279	10
2002	NOV	21	0831	32.58	19	29.06	155	28.65	9.05	21	7	.12	.4	1.3	KAO	1.3X	64	6
2002	NOV	21	1234	1.81	19	26.83	155	23.40	8.74	31	8	.11	.4	.9	KAO	1.6X	48	5
2002	NOV	21	1604	8.85	19	18.34	155	6.94	3.70	3413		.11	.7	1.7	SSF	1.6X	228	9
2002	NOV	21	1737	8.20	19	44.63	155	41.69	14.41	22	7	.12	.7	.5	KEA	1.4X	179	13
2002	NOV	22	0859	37.72	19	59.40	155	15.32	13.13	4215		.13	.6	.3	KEA	2.1X	132	2
2002	NOV	22	0921	19.50	19	17.93	155	10.88	5.53	31	8	.12	.7	1.5	SF3	1.4X	249	9
2002	NOV	22	1010	59.91	19	24.34	155	16.87	14.16	20	6	.12	.8	.5	DEPL	1.3X	148	2
2002	NOV	22	1258	8.97	19	15.50	155	32.06	13.25	22	7	.12	.4	1.6	DLS	1.5X	75	13
2002	NOV	22	2056	26.62	19	22.96	155	2.49	7.61	3310		.14	.8	.5	SF5	1.5X	205	8
2002	NOV	22	2059	12.50	19	56.17	155	40.37	6.79	18	5	.15	.7	1.2	KOH	1.2X	141	9
2002	NOV	23	0022	27.76	19	11.09	155	24.94	35.90	3010		.09	1.0	1.2	DEP	1.3X	262	17
2002	NOV	23	0033	53.72	19	10.49	155	25.33	35.18	3912		.10	.8	1.0	DLS	1.6X	196	5
2002	NOV	23	0106	5.36	19	32.29	155	45.46	6.03	17	4	.14	.9	1.4	KON	1.5X	139	3
2002	NOV	23	0226	22.01	20	6.35	155	45.43	20.58	19	4	.11	1.6	2.4	KOH	1.6X	161	3
2002	NOV	23	0811	5.97	20	0.09	155	31.39	7.46	26	9	.13	.6	.5	KEA	1.5X	185	21
2002	NOV	23	0854	13.57	19	17.06	155	6.24	13.98	4613		.13	.7	.3	DEP	2.5X	200	12
2002	NOV	23	1207	19.49	19	37.00	155	5.49	12.85	4013		.11	.5	.6	HILF	2.5X	117	12
2002	NOV	23	1443	29.67	19	17.88	155	29.12	2.41	30	9	.13	.5	.8	LSW	1.5X	164	9
2002	NOV	23	1832	13.23	19	25.04	155	15.22	12.82	20	6	.16	1.2	.4	INTL	1.3X	243	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	NOV	24	0106	14.86	19	10.70	155	40.13	10.27	24	5	.11	.5	1.0	LSW	1.4X	105	11
2002	NOV	24	0423	30.69	19	22.45	155	3.59	7.80	17	1	.13	2.0	.9	SF5	1.3X	205	7
2002	NOV	24	0545	5.63	20	8.20	155	45.98	25.86	13	3	.11	1.5	1.4	KOH	1.3U	245	2
2002	NOV	24	0812	44.79	19	25.62	155	18.61	6.15	16	5	.16	.7	1.1	INT	1.4X	148	2
2002	NOV	24	0925	15.57	19	29.04	155	26.28	9.57	23	7	.09	.4	.8	KAO	1.2X	75	5
2002	NOV	24	1051	46.34	19	20.76	155	8.53	8.25	4110		.10	.6	.4	SF4	2.3X	175	5
2002	NOV	24	1653	2.92	19	23.28	155	17.15	2.04	18	6	.09	.3	.3	SSC	1.3X	59	0
2002	NOV	24	1726	21.35	19	11.83	155	27.50	6.19	3810		.12	.3	.9	LSW	1.9X	131	4
2002	NOV	24	1904	59.15	19	27.05	155	28.80	8.82	18	6	.14	.5	1.6	KAO	1.0X	76	8
2002	NOV	24	2020	49.29	19	22.13	155	31.54	25.45	3713		.09	.4	.9	DML	1.7X	61	6
2002	NOV	24	2049	15.84	19	23.94	155	25.37	10.22	30	9	.12	.4	.9	KAO	1.1X	84	5
2002	NOV	24	2143	46.69	19	17.73	155	28.56	8.97	4613		.11	.3	.6	LSW	1.8X	100	9
2002	NOV	24	2307	1.10	19	24.01	155	29.30	8.97	38	9	.09	.3	.6	KAO	1.8X	53	4
2002	NOV	25	0139	59.78	19	12.87	155	27.25	0.14	4514		.14	.3	.2	LSW	2.0X	125	6
2002	NOV	25	0220	35.15	19	18.74	155	5.80	5.43	4012		.12	.6	1.3	SF4	2.0X	201	9
2002	NOV	25	0242	3.94	19	34.95	155	10.02	19.06	4216		.11	.4	1.4	DEP	1.7X	85	18
2002	NOV	25	0313	18.78	19	25.03	155	16.63	13.07	23	6	.14	.8	.6	DEPL	1.4X	100	2
2002	NOV	25	0358	40.43	18	53.95	155	15.95	15.82	36	8	.10	1.4	4.4	LOI	2.3X	256	36
2002	NOV	25	1005	50.80	20	5.40	155	19.18	13.02	12	5	.08	1.8	.8	KEA	1.6X	269	22
2002	NOV	25	1414	16.72	19	19.23	155	30.00	10.08	26	3	.10	.5	1.2	KAO	1.6X	83	7
2002	NOV	25	1822	36.38	19	6.07	155	22.06	39.23	12		.11	5.9	7.1	LOIT		281	12
2002	NOV	25	2057	10.44	19	24.79	155	16.77	12.93	16	4	.09	1.0	.6	INTL	1.3X	143	2
2002	NOV	26	0046	12.16	19	26.08	155	19.12	7.79	20	7	.08	.6	.8	KAO	1.2X	95	3
2002	NOV	26	0101	4.80	19	49.69	155	24.25	21.22	24	7	.10	.6	1.1	KEA	1.5X	125	8
2002	NOV	26	0123	25.42	19	23.92	155	16.86	12.77	19	3	.11	1.2	.8	INTL	1.3X	97	0
2002	NOV	26	1618	22.24	19	23.97	155	16.43	14.42	3810		.11	.7	.3	DEP	1.8X	55	0
2002	NOV	26	1702	26.67	19	18.87	155	12.51	2.18	22	6	.11	.6	.9	SSF	1.3X	230	7
2002	NOV	26	1814	20.44	19	25.33	155	17.07	13.02	17	5	.10	.7	.8	DEPL	1.4X	205	1
2002	NOV	27	0029	5.81	19	26.17	155	15.83	8.75	18	5	.14	1.0	.8	INTL	1.0X	198	3
2002	NOV	27	0727	38.08	19	21.08	155	8.13	8.71	31	7	.09	.9	.6	SF4	1.5X	199	4
2002	NOV	27	0909	10.58	19	26.02	155	16.98	9.94	19	4	.12	.9	1.1	INTL	1.0X	164	4
2002	NOV	27	1341	56.36	19	25.19	155	17.33	10.66	26	6	.12	.7	.8	INTL	1.2X	87	1
2002	NOV	27	1355	59.34	19	14.20	155	26.58	2.60	34	9	.14	.4	.8	LSW	1.4X	132	9
2002	NOV	27	1553	4.78	19	17.04	155	18.78	28.09	22	7	.08	1.0	1.0	DEP	1.2X	186	6
2002	NOV	27	1952	37.24	19	23.94	155	14.74	15.56	22	7	.09	.9	.3	DEPL	1.6X	241	3
2002	NOV	27	2114	37.23	19	23.25	155	16.93	2.96	18	6	.08	.4	.3	SSC	1.4X	113	0
2002	NOV	28	0009	57.65	19	15.95	155	28.61	7.29	31	6	.18	.5	1.3	LSW	1.5X	104	12
2002	NOV	28	0520	27.62	19	23.98	155	16.90	10.28	31	8	.13	.6	.5	INTL	1.5X	54	1
2002	NOV	28	0723	49.86	19	21.65	155	1.52	6.32	21	7	.13	1.6	2.5	SF5	1.7X	230	8
2002	NOV	28	0855	39.88	19	18.50	155	8.00	4.87	3410		.10	.7	2.1	SSF	1.4X	223	9
2002	NOV	28	1015	41.79	19	23.87	155	16.38	11.77	21	6	.16	.8	1.1	INTL	1.2X	95	0
2002	NOV	28	1330	6.02	19	20.69	155	11.57	7.22	3811		.13	.7	.6	SF3	1.5X	195	4
2002	NOV	28	1509	50.30	19	20.55	155	13.02	6.40	30	9	.13	.7	.8	SF2	1.3X	203	4
2002	NOV	28	1834	27.26	19	30.91	155	26.92	6.03	17	5	.13	.4	1.1	MLO	.9X	93	2
2002	NOV	28	1846	23.29	19	24.83	155	16.84	12.93	19	5	.09	.8	.8	INTL	1.4X	138	2
2002	NOV	28	2331	21.56	19	23.86	155	16.61	12.90	26	7	.13	.7	.8	INTL	1.2X	58	0
2002	NOV	29	0118	38.99	18	50.45	156	47.18	2.80	35	6	.12	5.0	3.5	DIS	2.4X	289	13
2002	NOV	29	0525	44.79	19	25.90	155	16.75	9.24	22	3	.14	.6	1.1	INT	1.2X	114	2
2002	NOV	29	0706	4.78	19	24.27	155	16.53	1.52	13	3	.05	.2	.2	SSC	1.1X	113	1
2002	NOV	29	0942	40.53	19	12.73	155	27.77	0.45	3310		.17	.4	.4	LSW	1.9X	122	6
2002	NOV	29	1448	1.88	19	19.42	155	7.61	7.75	26	5	.11	.9	.7	SF4	1.9X	219	7
2002	NOV	29	2001	44.70	19	27.05	155	23.06	10.10	3411		.09	.4	.8	KAO	1.4X	87	5
2002	NOV	30	0345	49.84	19	25.72	155	16.19	8.85	22	7	.14	.7	.5	INTL	1.2X	166	2
2002	NOV	30	0524	38.82	19	32.74	155	15.09	24.25	22	6	.10	1.0	1.2	DEP	1.1X	193	10
2002	NOV	30	1017	43.76	19	6.67	155	28.07	29.62	3010		.10	.7	1.3	DLS	1.4X	195	5
2002	NOV	30	1631	22.69	19	16.41	155	33.39	0.46	4011		.13	.3	.2	LSW	1.9X	70	15
2002	NOV	30	1736	48.69	19	50.54	155	25.13	23.93	34	9	.09	.5	1.1	KEA	1.6X	105	8
2002	DEC	1	0148	18.19	19	17.79	155	13.02	2.41	30	8	.10	.9	1.0	SSF	1.1X	237	9
2002	DEC	1	0456	58.33	19	24.06	155	15.66	16.82	22	7	.09	.9	.8	DEPL	1.1X	125	2
2002	DEC	1	1017	34.85	19	17.82	155	4.16	4.42	24	7	.11	.9	4.0	SSF	1.4X	242	12
2002	DEC	1	1023	17.22	19	23.52	155	16.91	13.93	30	8	.19	.8	.7	DEPL	1.5X	51	0
2002	DEC	1	1050	32.34	19	6.15	155	28.10	31.70	20	6	.09	1.2	1.7	DLS	1.6X	221	6
2002	DEC	1	1508	7.22	20	39.52	156	32.90	1.05	21	6	.07	1.7	.7	DIS	2.7X	270	19
2002	DEC	1	1611	23.08	19	21.35	155	25.84	9.17	3910		.12	.4	.6	KAO	1.3X	75	4
2002	DEC	1	1616	34.74	19	18.68	155	7.24	6.61	4113		.12	.6	.9	SF4	1.6X	194	9
2002	DEC	1	1641	19.83	19	26.31	155	15.73	1.44	22	6	.12	.3	.5	SNCL	1.1X	174	3
2002	DEC	1	1909	24.56	19	18.76	155	7.97	1.90	32	9	.10	.7	.6	SSF	1.3X	223	8
2002	DEC	2	0246	30.55	19	6.62	155	32.67	36.03	23	7	.08	.9	1.3	DLS	1.3X	165	10
2002	DEC	2	0304	19.43	19	22.52	155	17.25	11.55	25	7	.10	.6	.8	INT	1.5X	154	2
2002	DEC	2	0717	56.04	19	25.64	155	16.73	14.24	21	7	.11	1.0	.6	DEPL	1.5X	104	1
2002	DEC	2	0913	24.30	19	19.56	155	13.02	4.78	22	2	.10	1.2	2.4	SSF	1.3X	234	6
2002	DEC	2	1428	41.71	19	24.27	155	15.76	13.20	17		.11	1.6	1.8	DEP	1.4X	112	2
2002	DEC	2	1444	42.43	19	18.80	155	7.52	5.54	23	2	.12	1.3	1.9	SF4	1.7X	262	8
2002	DEC	2	1445	29.97	19	18.91	155	7.44	4.04	19	1	.09	1.6	5.4	SSF	1.5X	262	8
2002	DEC	2	1626	16.89	19	16.02	155	27.64	7.79	26	2	.14	.5	1.0	LSW	1.7X	115	11
2002	DEC	2	1759	24.42	19	15.65	155	27.59	4.71	21	6	.13	.6	3.1	LSW	.9X	141	11
2002	DEC	2	1800	26.01	19	23.03	155	14.78	3.66	18	7	.08	.4	.5	SEC	1.3X	136	2
2002	DEC	2	1904	31.15	19	24.06	155	15.56	10.97	29	8	.12	.7	.6	INT	1.4X	107	2
2002	DEC	2	1941	5.08	19	11.64	155	37.42	4.83	25	3	.17	.6	1.9	LSW	2.0X	88	16
2002	DEC	2	2218	57.47	19	5.47	155	24.43	32.86	19	2	.10	1.7	1.7	LOI	1.4X	234	10
2002	DEC	2	2359	16.76	19	35.06	155	11.65	12.97	25	7	.13	.4	.7	KEA	1.5X	77	16
2002	DEC	3	0018	5.82	19	23.23	155	17.86	11.21	27	7	.18	.8	.9	INT	1.3X	126	2
2002	DEC	3	0432	2.19	19	22.82	155	17.64	8.53	23	5	.12	.6	.8	INT	1.2X	141	2
2002	DEC	3	0538	53.10	19	58.41	155	33.19	14.99	24	7	.12	.7	.4	KEA	1.3X	166	17
2002	DEC	3	0738	56.93	19	24.58	155	19.19	5.19	26	8	.11	.4	.9	KAO	1.0X	85	2
2002	DEC	3	0959	10.40	19	24.62	155	17.00	11.62	25	6	.10	.6	.6	INT	1.3X	83	2
2002	DEC	3	1318	39.40	19	19.62	155	12.76	6.04	34	9	.12	.7	1.0	SF2	1.4X	222	6
2002	DEC	3	1601	57.39	19	23.04	155	14.60	3.19	30	8	.09	.3	.3	SEC	2.1X	117	3
2002	DEC	3	1607	15.80	19	20.25	155	8.49	6.60	4212		.12	.5	.7	SF4	2.2X	178	5
2002	DEC	3	1959	19.39	19	22.67	155	16.37	14.33	21	6	.17	.9	.5	DEP	1.2X	129	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	DEC	3	2140	48.68	19	20.98	155	12.45	8.43	4213		.12	.5	.4	SF2	1.9X	158	5
2002	DEC	3	2221	34.74	19	19.88	155	7.79	9.40	7	2	.03	4.0	2.3	SF4	1.8X	288	6
2002	DEC	4	0157	13.63	19	23.45	155	17.18	12.36	25	7	.10	.6	.6	INT	1.4X	111	0
2002	DEC	4	1241	6.11	19	21.98	155	10.79	3.20	3811		.11	.6	.4	SER	2.0X	159	2
2002	DEC	4	1652	9.99	19	51.40	155	23.24	31.45	16	4	.10	.8	1.4	KEA	1.4X	140	6
2002	DEC	4	1800	0.52	19	20.72	155	8.55	8.91	41	9	.12	.7	.5	SF4	2.7X	175	5
2002	DEC	4	2326	58.45	19	23.76	155	16.88	2.66	16	4	.07	.4	.3	SSC	1.3X	59	1
2002	DEC	5	0000	30.65	19	20.64	155	8.49	7.31	30	6	.11	.7	.7	SF4	2.1X	175	5
2002	DEC	5	0100	59.67	19	24.71	155	16.38	13.20	21	1	.08	.7	.6	DEPL	1.3X	95	1
2002	DEC	5	1012	3.96	19	33.10	155	45.24	2.64	12	2	.09	1.0	2.1	KON	1.5X	136	5
2002	DEC	5	1552	59.16	19	24.82	155	17.05	11.59	31	9	.15	.6	.5	INT	1.5X	65	0
2002	DEC	5	1758	18.96	19	26.91	155	28.64	12.52	18	5	.09	.5	1.6	KAO	1.1X	102	8
2002	DEC	5	1912	7.22	19	17.81	155	12.95	4.33	27	7	.11	.8	2.1	SSF	1.3X	218	10
2002	DEC	5	2112	4.40	19	24.85	154	59.68	5.97	20	4	.13	1.3	.7	LER	1.1X	186	2
2002	DEC	5	2330	45.79	19	21.10	155	4.51	6.32	27	7	.14	1.1	1.1	SF5	1.3X	215	7
2002	DEC	6	0103	5.03	19	26.90	155	28.81	9.90	22	7	.13	.4	1.4	KAO	1.1X	78	8
2002	DEC	6	0106	8.62	19	25.25	155	16.73	13.03	33	9	.13	.6	.5	DEP	1.6X	62	1
2002	DEC	6	0112	7.97	19	25.37	155	16.06	9.11	17	6	.10	.7	.8	INT	1.1X	125	2
2002	DEC	6	0320	29.65	19	18.42	155	12.21	5.51	31	9	.12	.6	1.0	SF3	1.3X	253	8
2002	DEC	6	0638	26.20	19	31.25	155	28.08	12.68	3310		.12	.5	.5	MLO	1.6X	53	2
2002	DEC	6	0832	50.72	19	24.38	155	15.79	13.61	25	8	.14	.8	.5	DEP	1.7X	119	3
2002	DEC	6	0839	31.35	19	20.52	155	4.20	8.95	26	7	.14	1.2	.7	SF5	1.5X	221	8
2002	DEC	6	1942	9.83	19	23.54	154	57.17	0.64	18	6	.17	2.2	.7	SLE	1.6X	299	4
2002	DEC	6	2155	50.51	19	24.84	155	17.20	10.87	30	8	.14	.5	.6	INT	1.6X	84	1
2002	DEC	6	2244	44.99	19	46.40	155	40.15	13.64	25	7	.10	.6	.3	KEA	1.5X	165	10
2002	DEC	7	0227	23.46	19	23.48	155	29.86	9.85	19	5	.07	.4	1.0	KAO	1.1X	141	4
2002	DEC	7	0407	7.87	20	52.32	156	0.30	4.70	27	4	.11	8.9	9.8	DIS -	2.7X	269	32
2002	DEC	7	0451	46.02	19	22.70	155	29.41	12.78	19	6	.13	.6	1.7	KAO	1.2X	117	7
2002	DEC	7	1024	9.14	19	20.80	155	1.24	5.96	33	9	.16	.8	.9	SF5	1.6X	240	9
2002	DEC	7	1029	13.13	19	24.23	155	15.57	12.91	3210		.14	.8	.5	INT	1.6X	123	2
2002	DEC	7	1109	29.03	19	21.21	155	15.54	24.72	4114		.11	.7	.7	DEP	2.2X	150	2
2002	DEC	7	1224	6.58	19	19.96	155	12.76	5.88	30	7	.10	.6	.8	SF2	1.5X	217	5
2002	DEC	7	1757	42.77	18	59.82	155	23.44	11.90	16	6	.08	5.9	7.9	LOI	1.5X	324	49
2002	DEC	7	2109	14.30	19	22.08	155	31.47	25.73	4515		.10	.4	.7	DML	2.1X	61	6
2002	DEC	7	2202	54.61	19	59.52	155	29.18	38.62	22	7	.08	.8	.9	KEA	1.4X	254	19
2002	DEC	7	2216	0.98	19	22.14	155	2.34	6.86	26	6	.10	1.2	.7	SF5	1.9X	217	8
2002	DEC	8	0108	4.12	19	25.06	155	17.06	11.49	28	7	.19	.8	.9	INT	1.6X	91	1
2002	DEC	8	1036	40.52	19	11.90	155	31.25	1.45	26	8	.12	.6	.6	LSW	1.4X	134	7
2002	DEC	8	1219	49.98	19	21.90	155	5.08	9.63	22	7	.05	1.1	.9	SF5	2.5X	150	5
2002	DEC	8	1605	25.04	19	17.40	155	14.69	4.77	24	7	.11	.8	3.3	SSF	1.4X	242	7
2002	DEC	8	1723	37.51	19	23.82	155	16.31	13.22	16	5	.11	1.1	.9	DEP	1.6X	96	1
2002	DEC	8	2218	2.47	19	24.80	155	38.26	2.63	32	8	.15	.4	.3	MLO	2.3X	102	1
2002	DEC	9	0625	50.51	19	24.28	155	3.23	4.21	31	8	.10	.9	2.6	SME	1.8X	179	8
2002	DEC	9	1016	4.75	19	23.67	155	18.10	7.73	20	5	.15	.8	1.2	INT	1.3X	140	2
2002	DEC	9	1754	32.62	19	22.77	155	14.49	1.76	18	7	.12	.4	.3	SEC	1.7X	159	2
2002	DEC	9	2328	36.40	19	22.79	155	14.67	2.87	31	9	.10	.4	.3	SEC	2.2X	156	2
2002	DEC	9	2357	8.34	19	27.07	154	49.59	3.61	33	8	.20	1.3	1.4	SLE	2.2X	295	16
2002	DEC	10	0002	22.00	19	11.77	155	31.44	7.49	29	8	.12	.5	.9	LSW	1.7X	197	8
2002	DEC	10	0015	10.33	19	25.24	155	18.69	5.99	25	8	.11	.4	.8	INT	1.4X	77	2
2002	DEC	10	0302	59.50	19	10.79	155	41.12	4.88	34	8	.13	.5	2.2	LSW	1.9X	156	9
2002	DEC	10	0444	57.95	19	22.79	155	14.36	1.49	17	6	.12	.3	.3	SEC	1.3X	156	2
2002	DEC	10	0814	23.85	19	17.92	155	26.51	0.01	18	6	.12	.9	.3	LSW #	1.1X	251	7
2002	DEC	10	0950	40.26	18	55.47	155	26.76	12.31	16	4	.09	5.1	7.1	LSW	1.5X	313	46
2002	DEC	10	1059	25.95	19	22.79	155	14.47	1.54	17	5	.10	.3	.4	SEC	1.7X	129	2
2002	DEC	10	1702	11.61	19	25.20	155	16.73	11.94	28	7	.11	.7	.6	INT	1.6X	109	1
2002	DEC	10	1928	29.02	19	36.30	155	59.45	9.87	18	5	.11	1.2	.8	KON	1.5X	282	26
2002	DEC	10	1933	14.71	19	24.09	155	15.55	2.83	18	6	.09	.3	.3	SEC	1.5X	87	2
2002	DEC	10	2255	18.56	19	25.70	155	23.54	9.85	22	7	.11	.5	1.2	KAO	1.2X	90	8
2002	DEC	11	0007	16.10	19	44.94	156	3.52	33.64	23	6	.11	1.4	1.1	HUA	1.4X	302	24
2002	DEC	11	0145	34.33	19	24.50	155	38.39	3.05	15	3	.14	.8	.5	MLO	1.1X	104	1
2002	DEC	11	0907	11.73	19	29.53	155	17.97	24.35	4212		.09	.6	.7	DEP	2.2X	108	4
2002	DEC	11	0914	16.35	19	15.48	156	20.15	5.07	40	8	.13	2.8	3.8	DIS	2.8X	278	66
2002	DEC	11	1203	28.37	18	51.51	155	13.82	11.02	21	4	.12	5.8	7.8	LOI	1.6X	290	48
2002	DEC	11	1505	50.56	20	10.30	155	35.75	32.46	4213		.11	.9	2.0	KOH	2.3X	285	35
2002	DEC	11	2012	30.66	19	25.05	155	16.16	11.89	31	9	.12	.6	.6	INT	1.3X	112	1
2002	DEC	11	2024	21.95	19	18.36	155	14.79	9.82	3710		.10	.4	.5	SF1	1.6X	169	8
2002	DEC	11	2314	53.38	19	18.17	155	6.83	7.55	27	8	.10	.6	.8	SF4	1.5X	265	10
2002	DEC	12	0009	29.38	20	0.36	155	2.47	36.02	3611		.11	1.0	1.4	KEA	2.0X	277	34
2002	DEC	12	0126	39.30	19	11.50	155	30.76	37.43	4012		.07	.6	1.0	DLS	1.6X	89	6
2002	DEC	12	0542	1.82	20	3.59	155	26.41	6.78	25	6	.15	1.1	.6	KEA	1.6X	265	21
2002	DEC	12	0549	40.18	19	18.55	155	13.49	0.49	30	9	.13	.5	.2	SSF	1.3X	213	8
2002	DEC	12	0624	17.17	19	58.08	155	35.71	10.94	21	5	.13	1.3	.5	KOH	1.7X	258	14
2002	DEC	12	0632	46.49	19	24.42	155	16.10	13.26	29	7	.12	.6	.4	DEP	1.6X	52	1
2002	DEC	12	1330	58.57	19	14.91	155	20.49	12.29	3210		.12	.6	.5	SWR	1.5X	202	11
2002	DEC	12	1550	56.07	19	20.38	155	7.62	8.20	3210		.10	.8	.7	SF4	1.5X	255	5
2002	DEC	12	1641	21.40	19	24.36	155	57.42	15.08	33	8	.13	.9	1.0	KONF	2.4X	235	23
2002	DEC	12	1705	16.97	20	0.24	155	25.90	5.85	29	8	.15	.7	.6	KEA	1.8X	197	16
2002	DEC	12	1716	54.86	19	38.18	155	50.93	24.66	5013		.10	.5	1.1	KONF	3.5X	108	6
2002	DEC	12	1847	28.55	19	39.50	155	52.39	27.26	16	4	.08	1.4	1.1	HUA	1.4X	261	5
2002	DEC	12	2102	50.35	19	12.23	155	25.03	5.00	18	4	.10	.7	2.2	LSW	1.1X	199	7
2002	DEC	13	0330	58.07	19	27.18	155	17.58	15.75	22	6	.13	1.2	.9	DEP	1.4X	118	2
2002	DEC	13	0446	15.75	19	45.70	155	47.22	20.89	26	9	.13	1.0	1.9	HUA	1.8X	218	10
2002	DEC	13	0516	57.90	19	19.29	155	13.94	9.01	3811		.13	.5	.4	SF2	1.6X	167	6
2002	DEC	13	1249	32.33	19	24.19	155	16.47	15.24	20	5	.11	.9	.5	DEP	1.4X	79	1
2002	DEC	13	1401	58.72	19	18.13	155	15.48	7.24	21	5	.07	.9	.8	SF1	1.2X	232	5
2002	DEC	13	1456	34.29	19	21.68	155	5.47	8.85	20	6	.11	1.3	.6	SF4	1.3X	202	5
2002	DEC	13	1952	27.60	19	33.75	155	37.48	7.73	33	8	.12	.5	1.1	MLO	1.7X	105	9
2002	DEC	13	2313	53.67	19	29.66	155	27.74	7.20	16	5	.08	.6	1.4	KAO	1.3X	103	4
2002	DEC	13	2315	26.41	19	29.77	155	27.90	6.91	2810		.09	.3	.9	KAO	1.6X	77	4
2002	DEC	14	0105	18.23	19	22.82	155	16.40	10.28	16	5	.11	.9	1.0	INT	1.3X	154	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	DEC	14	0151	20.75	19	30.03	155	26.62	9.11	3611		.12	.4	.8	MLO	1.7X	62	4
2002	DEC	14	0215	48.92	19	14.69	155	31.90	0.04	24	5	.17	.4	.3	LSW #	1.5X	80	12
2002	DEC	14	0357	38.20	19	22.49	155	25.36	11.29	30	7	.12	.5	.7	KAO	1.3X	97	4
2002	DEC	14	0732	2.64	19	22.29	154	57.07	3.68	29	8	.10	.9	.8	SLE	1.5X	276	6
2002	DEC	14	1121	42.94	19	22.95	155	14.20	3.69	22	7	.09	.3	.4	SEC	1.7X	120	2
2002	DEC	14	1122	8.08	19	22.64	155	14.45	2.18	17	6	.10	.3	.3	SEC	1.5X	138	2
2002	DEC	14	1555	3.04	19	17.18	155	7.49	41.77	4816		.11	.7	.6	DEP	2.2X	203	11
2002	DEC	14	1631	36.62	19	12.28	155	21.02	44.93	31	9	.09	.9	1.0	DEP	1.4X	211	13
2002	DEC	14	1734	40.35	19	20.06	155	11.76	9.92	3810		.11	.7	.3	SF3	3.2X	165	6
2002	DEC	14	1759	47.47	19	21.38	155	11.65	8.60	22	8	.09	1.0	.6	SF3	1.6X	208	3
2002	DEC	14	1906	48.79	18	53.05	155	15.94	12.37	26	7	.11	1.1	.7	LOI	1.9X	271	37
2002	DEC	14	1931	14.79	19	38.56	156	10.48	45.11	4713		.09	.9	1.3	KONF	3.8X	242	16
2002	DEC	14	2039	44.74	19	24.47	155	15.01	14.53	18	5	.13	1.0	.4	DEP	1.6X	131	1
2002	DEC	14	2148	37.39	19	20.88	155	9.99	2.45	3510		.09	.4	.4	SER	2.0X	199	3
2002	DEC	14	2150	12.46	19	24.27	155	16.80	1.24	17	5	.12	.3	.2	SSC	1.0X	79	1
2002	DEC	15	0545	31.96	19	23.09	155	14.40	3.98	18	5	.08	.4	.5	SEC	1.7X	135	2
2002	DEC	15	0556	7.53	19	19.33	155	5.55	2.43	24	4	.11	.8	1.1	SSF	1.7X	226	8
2002	DEC	15	0843	3.27	19	23.18	155	14.71	3.24	19	5	.07	.4	.4	SEC	1.6X	110	3
2002	DEC	15	1236	58.39	19	25.43	155	17.45	9.78	19	6	.08	.5	.8	INT	1.4X	107	0
2002	DEC	15	1314	14.71	19	23.11	155	29.95	10.62	17	3	.06	.6	1.0	KAO	1.6X	147	4
2002	DEC	15	1754	46.39	19	24.28	155	29.57	9.19	33	8	.10	.3	.6	KAO	1.5X	53	5
2002	DEC	15	1854	38.22	19	17.48	155	12.84	8.06	2711		.11	.6	1.1	SF2	1.4X	219	9
2002	DEC	15	1946	12.01	19	17.42	155	7.12	4.24	26	8	.08	.6	2.5	SSF	1.4X	233	11
2002	DEC	15	2115	4.38	19	46.71	155	35.95	16.35	15	7	.07	.7	1.5	KEA	1.5X	100	11
2002	DEC	15	2213	54.23	19	18.19	155	8.75	7.14	27	8	.08	.6	.9	SF4	1.4X	262	9
2002	DEC	15	2218	11.15	19	13.60	155	12.27	9.37	26	6	.10	1.0	1.6	SF3	1.5X	231	17
2002	DEC	15	2340	28.17	19	27.66	154	50.77	2.86	24	6	.16	1.7	1.5	SLEF	2.2X	287	15
2002	DEC	16	0058	29.97	19	16.30	155	12.42	2.43	17	3	.08	1.7	1.7	SSF	1.4X	250	12
2002	DEC	16	0445	48.38	19	16.84	155	12.03	9.77	21	5	.10	1.3	.7	SF3	1.9X	264	11
2002	DEC	16	0900	58.79	19	19.72	155	11.55	6.76	23	3	.10	1.2	.9	SF3	1.4X	229	6
2002	DEC	16	0907	42.65	19	21.91	155	12.75	3.37	23	8	.07	.5	.3	SER	1.8X	175	1
2002	DEC	16	1235	53.36	19	18.30	155	9.22	3.49	3110		.11	.7	1.5	SSF	1.5X	222	8
2002	DEC	16	1500	59.10	19	21.40	155	12.72	2.57	29	7	.12	.5	.4	SER	1.8X	186	2
2002	DEC	16	1519	9.49	19	18.16	155	12.70	5.50	30	7	.11	.8	1.4	SF2	1.1X	236	8
2002	DEC	16	1805	19.37	19	26.54	155	44.36	0.96	15	3	.18	1.2	.8	KON	1.0X	198	8
2002	DEC	16	2018	58.58	19	26.49	155	20.72	7.62	37	8	.09	.3	.7	KAO	2.1X	48	5
2002	DEC	16	2054	10.83	19	27.10	155	19.86	9.07	21	4	.08	.6	.9	KAO	1.4X	134	5
2002	DEC	16	2059	51.04	19	26.09	155	19.23	6.49	18	5	.07	.5	.9	KAO	1.5X	97	3
2002	DEC	17	0522	32.52	19	11.83	155	27.65	33.88	19	4	.07	1.7	1.2	DLS	1.6X	264	17
2002	DEC	17	0638	28.13	19	19.08	155	7.60	9.15	4211		.11	.8	.4	SF4	2.7X	190	8
2002	DEC	17	0641	5.01	19	18.80	155	7.21	7.64	30	5	.10	.9	.7	SF4	1.7X	224	8
2002	DEC	17	1515	30.76	19	23.67	155	25.94	10.46	22	8	.10	.4	.9	KAO	1.2X	90	4
2002	DEC	17	1626	40.73	19	23.23	155	16.92	2.64	22	7	.07	.3	.2	SSC	1.5X	59	0
2002	DEC	17	2123	38.80	19	13.93	155	31.37	32.71	22	7	.07	.8	1.2	DLS	.9X	202	18
2002	DEC	17	2254	9.95	19	20.95	155	9.12	7.83	40	9	.12	.7	.5	SF4	2.2X	172	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	DEC	17	2304	28.62	19	18.63	155	8.78	5.96	3410		.11	.6	1.3	SF4	1.4X	264	8
2002	DEC	18	0215	45.55	19	22.06	155	29.54	9.00	34	9	.10	.4	.7	KAO	1.4X	124	3
2002	DEC	18	1645	2.22	19	34.29	155	41.59	13.42	17	4	.10	.7	.6	DML	1.1X	129	10
2002	DEC	18	1648	54.20	19	16.58	155	14.49	6.78	3310		.13	.8	1.7	SF2	1.3X	239	8
2002	DEC	18	2024	30.27	19	16.67	155	12.28	8.10	30	8	.12	.7	.8	SF3	1.2X	248	11
2002	DEC	18	2201	7.53	19	27.58	155	27.49	10.18	27	9	.11	.4	1.0	KAO	1.1X	61	8
2002	DEC	19	0205	16.01	19	29.00	155	26.69	9.58	18	5	.14	.4	1.2	KAO	1.4X	77	6
2002	DEC	19	1014	0.68	19	28.33	155	23.54	9.97	29	9	.10	.5	.9	KAO	1.3X	86	3
2002	DEC	19	1221	12.39	19	15.89	155	18.92	11.52	28	9	.10	.7	.9	SWR	1.3X	231	8
2002	DEC	19	1252	22.84	19	18.49	155	14.00	9.28	35	9	.12	.5	.8	SF2	1.5X	96	3
2002	DEC	19	1847	52.82	19	15.44	155	1.04	43.70	18	6	.10	2.4	1.2	DEP	1.2X	331	29
2002	DEC	19	2029	1.31	19	24.66	155	14.64	3.62	3511		.12	.3	.4	SNCF	2.3X	64	1
2002	DEC	19	2121	37.09	19	22.44	155	9.26	3.48	29	9	.11	.8	.4	SER	1.3X	201	2
2002	DEC	19	2231	49.39	19	28.23	155	37.09	12.64	19	7	.10	.6	.9	MLO	.9X	99	2
2002	DEC	20	1159	54.11	19	22.35	155	30.52	9.54	4311		.10	.3	.6	KAO	1.8X	61	5
2002	DEC	20	2333	5.79	19	25.48	155	20.20	8.64	3210		.11	.4	.8	KAO	1.4X	46	3
2002	DEC	21	0111	35.12	19	20.95	155	2.32	7.50	26	7	.15	1.1	.8	SF5	1.4X	232	10
2002	DEC	21	0233	48.29	19	15.95	155	6.35	5.24	24	6	.12	1.0	2.7	SF4	1.1X	289	14
2002	DEC	21	0259	56.62	19	17.52	155	0.75	39.74	4414		.10	1.0	.7	DEP	2.0X	239	14
2002	DEC	21	0408	14.31	19	17.53	155	14.87	4.75	27	6	.13	.8	3.1	SSF	1.3X	231	9
2002	DEC	21	0413	36.33	20	23.04	155	45.85	36.69	18	6	.13	1.7	2.1	KOH	1.7X	315	28
2002	DEC	21	0823	28.52	19	23.27	155	14.97	2.69	19	7	.09	.3	.4	SEC	1.3X	108	2
2002	DEC	21	0914	4.42	19	28.28	155	23.67	11.41	3610		.11	.4	.8	KAO	1.7X	44	3
2002	DEC	21	0931	26.34	19	28.03	154	55.50	0.58	3311		.13	1.7	.6	SLE #	1.5X	249	8
2002	DEC	21	1459	28.99	18	55.97	155	13.20	9.81	32	5	.16	1.4	.9	LOI	2.7X	252	36
2002	DEC	21	1600	49.25	19	22.16	155	28.60	10.49	25	7	.10	.5	.8	KAO	1.1X	91	2
2002	DEC	21	1810	24.61	19	25.23	155	13.69	32.00	4315		.13	.6	.6	DEP	1.7X	57	2
2002	DEC	21	1954	34.16	19	25.13	155	18.95	7.05	3412		.10	.4	.6	INT	1.8X	74	2
2002	DEC	22	0249	50.88	19	23.86	155	52.04	12.87	12	1	.08	2.4	.7	KON	1.7X	299	16
2002	DEC	22	0312	3.16	19	26.05	155	30.05	9.61	15	3	.11	.5	1.5	KAO	1.0X	99	8
2002	DEC	22	0634	57.33	19	23.25	155	17.01	2.66	23	7	.09	.3	.2	SSC	1.6X	115	0
2002	DEC	22	0730	43.52	19	32.75	155	42.26	7.50	16	3	.12	1.0	2.6	MLO	1.2X	196	8
2002	DEC	22	1804	59.94	19	18.19	155	0.68	33.26	15	1	.08	3.6	3.5	DEP	1.3X	229	13
2002	DEC	22	1829	33.02	19	22.24	155	16.94	2.95	2810		.09	.3	.3	SSC	1.6X	167	2
2002	DEC	23	0247	3.99	19	15.53	155	27.33	8.03	19	1	.13	.6	1.0	LSW	1.4X	118	11
2002	DEC	23	0553	7.58	19	23.20	155	17.03	2.57	20	7	.09	.4	.2	SSC	1.6X	118	0
2002	DEC	23	1355	42.33	19	26.16	155	20.50	3.58	24	9	.11	.4	.9	KAO	1.1X	101	5
2002	DEC	23	2000	20.32	19	28.26	155	36.61	11.88	12	3	.09	.8	1.3	MLOT		174	2
2002	DEC	23	2208	50.76	19	47.61	155	24.24	21.75	20	6	.10	.9	1.4	KEA	1.4X	134	6
2002	DEC	24	0000	21.76	19	18.54	155	5.29	5.05	3310		.11	.8	2.2	SF4	1.4X	233	10
2002	DEC	24	0310	13.73	19	21.93	155	29.93	9.56	4513		.11	.3	.5	KAO	2.1X	66	4
2002	DEC	24	0343	36.96	19	21.42	155	30.09	8.52	17	5	.09	.6	1.3	KAO	1.4X	171	5
2002	DEC	24	0810	4.19	19	17.17	155	14.96	9.90	40	8	.10	.7	.4	SF1	2.4X	193	7
2002	DEC	24	1358	51.54	19	3.95	155	23.82	28.22	22	8	.11	1.3	2.5	LOI	1.3X	291	30
2002	DEC	24	1844	56.21	20	3.06	155	17.69	13.62	34	8	.12	1.0	.7	KEAF	2.1X	224	19

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	DEC	24	1923	34.08	19	21.68	155	17.58	24.02	4013		.12	.6	.7	DEP	1.8X	138	3
2002	DEC	24	2335	14.95	19	16.72	156	22.69	9.01	21	5	.11	6.2	8.7	DIS	1.8X	307	66
2002	DEC	25	0322	32.87	19	28.42	155	37.18	15.47	11	1	.10	1.0	1.4	DML	1.3X	102	3
2002	DEC	25	0604	6.81	19	25.65	155	31.40	16.35	16	3	.10	.8	1.1	DML	1.2X	118	3
2002	DEC	25	0704	52.92	19	21.13	155	4.35	6.18	25	5	.11	.8	.9	SF5	1.7X	215	7
2002	DEC	25	1452	58.54	19	14.21	155	34.03	6.55	4712		.12	.3	.7	LSWF	3.5X	73	14
2002	DEC	25	1503	30.87	19	14.28	155	34.49	2.14	24	4	.15	.5	1.1	LSW	2.1X	79	15
2002	DEC	25	1549	6.87	19	24.42	154	56.72	3.62	16	1	.12	2.4	1.3	SLE	1.7X	272	4
2002	DEC	25	1855	54.16	19	54.05	155	21.98	18.83	4313		.11	.6	1.3	KEAF	2.1X	175	3
2002	DEC	25	1929	30.22	19	29.44	155	26.55	8.23	23	7	.09	.3	.8	KAO	1.2X	70	5
2002	DEC	25	2323	23.99	19	16.90	155	23.01	1.77	25	4	.12	.6	.6	SWR	1.7X	222	6
2002	DEC	26	0026	7.53	19	16.67	155	23.33	2.23	25	4	.10	.6	.9	SWR	1.5X	149	7
2002	DEC	26	0440	42.47	19	18.64	155	15.65	6.99	26	4	.10	1.2	.8	SF1	1.4X	226	7
2002	DEC	26	0623	2.28	19	45.10	155	38.68	15.25	17	5	.13	.6	1.0	KEA	1.0X	102	12
2002	DEC	26	0702	49.75	19	8.93	155	29.90	9.25	3813		.13	.5	1.3	LSW	1.7X	151	4
2002	DEC	26	2211	59.28	19	27.93	155	37.66	14.65	22	8	.12	.6	.6	DML	1.6X	100	3
2002	DEC	26	2337	45.80	19	22.93	155	25.22	9.77	3510		.10	.4	.6	KAO	1.3X	90	4
2002	DEC	27	0053	8.32	19	47.00	155	0.28	42.88	3212		.11	.9	1.1	KEA	2.0X	247	9
2002	DEC	27	0136	11.07	19	51.36	155	24.82	27.84	28	8	.10	.6	.9	KEA	1.4X	152	8
2002	DEC	27	0446	53.59	19	38.84	156	8.42	37.41	3410		.11	1.0	1.7	KON	2.2X	279	32
2002	DEC	27	0737	9.15	19	28.70	155	28.39	11.63	3212		.11	.4	.8	KAO	1.7X	56	6
2002	DEC	27	1255	50.70	19	28.48	155	26.82	8.83	3913		.11	.3	.9	KAO	1.8X	55	7
2002	DEC	27	1431	39.18	19	23.83	155	15.25	3.22	16	6	.06	.4	.5	SEC	1.5X	99	2
2002	DEC	27	1616	49.98	19	50.14	155	34.82	25.01	8	1	.05	2.6	3.0	KEAT		252	14
2002	DEC	27	1618	16.74	19	48.67	155	26.27	29.34	18	5	.11	.9	1.4	KEA	1.6X	124	4
2002	DEC	27	1619	38.08	19	47.36	155	27.75	28.25	15	6	.12	.8	1.5	KEA	1.7X	117	1
2002	DEC	27	2059	30.41	19	21.39	155	26.83	9.87	23	6	.13	.5	.8	KAO	1.4U	128	2
2002	DEC	28	0329	33.02	19	30.36	155	25.95	8.92	16	5	.10	.4	.9	MLO	1.3X	107	4
2002	DEC	28	0430	49.88	19	25.09	155	18.93	7.27	3212		.10	.4	.6	INT	1.4X	75	2
2002	DEC	28	1246	47.46	19	19.30	155	13.35	6.71	3211		.12	.4	.9	SF2	1.3X	130	4
2002	DEC	28	1426	59.11	19	25.11	155	17.05	11.52	24	6	.13	.6	.8	INTL	1.7X	92	1
2002	DEC	28	1618	48.50	19	57.80	155	44.78	9.36	18	5	.15	.9	.7	KOH	1.6X	152	15
2002	DEC	28	1906	14.21	19	26.66	155	29.22	10.24	4013		.12	.3	.8	KAO	1.7X	48	8
2002	DEC	28	2047	53.21	19	26.00	154	50.58	6.20	19	6	.13	1.1	.9	LER	1.5X	293	14
2002	DEC	28	2126	59.40	19	22.15	155	17.19	33.01	3312		.11	1.1	.8	DEP	1.7X	168	2
2002	DEC	28	2338	49.48	19	18.12	155	8.49	7.23	3410		.10	.6	1.0	SF4	1.6X	225	9
2002	DEC	29	0117	56.84	19	17.46	155	14.82	7.68	25	2	.11	1.0	.7	SF1	1.8X	231	9
2002	DEC	29	0200	8.38	19	20.79	155	11.52	8.16	4014		.11	.7	.5	SF3	1.6X	198	4
2002	DEC	29	0640	38.82	19	37.47	154	59.61	34.56	4715		.11	.7	.9	HIL	2.4X	199	9
2002	DEC	29	0751	19.96	19	33.04	155	44.57	12.65	22	6	.10	.6	.3	KON	1.6X	119	5
2002	DEC	29	1258	51.10	19	18.37	155	8.04	2.80	28	7	.10	.7	1.3	SSF	1.5X	226	9
2002	DEC	29	1437	21.75	19	9.72	155	32.34	43.09	3712		.08	.6	1.0	DLS	2.1X	122	8
2002	DEC	29	1556	15.42	19	18.18	155	12.56	1.39	26	6	.10	.6	.7	SSF	1.4X	216	8
2002	DEC	29	1916	1.77	19	11.13	155	36.01	0.46	27	6	.18	.4	.3	LSW	2.1X	96	15
2002	DEC	29	2246	39.06	19	28.30	155	23.33	10.38	30	7	.14	.4	.7	KAO	1.6X	57	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	RMKS	MAG	GAP	DS
2002	DEC	29	2315	46.31	20	5.95	155	47.25	23.95	19	4	.10	1.5	1.9	KOH	1.6X	187	3
2002	DEC	30	0511	3.04	19	18.26	155	3.74	43.28	29	4	.11	1.5	.8	DEP	1.8X	254	12
2002	DEC	30	0639	35.11	19	17.21	155	13.28	5.10	24	3	.12	.9	2.8	SF2	1.6X	220	10
2002	DEC	30	1823	34.71	19	11.47	155	20.22	45.24	23	7	.12	1.0	1.1	DEP	1.5X	243	17
2002	DEC	30	1946	17.77	19	11.94	155	34.67	10.45	15	1	.13	.7	3.3	LSW	2.0X	91	13
2002	DEC	30	2153	2.39	19	13.01	155	27.12	6.03	34	5	.12	.4	.9	LSW	2.0X	127	7
2002	DEC	31	0407	31.05	19	15.88	155	15.00	10.94	4510		.13	.6	.3	SF1	2.6X	176	7
2002	DEC	31	0418	27.92	19	15.61	155	15.09	9.42	23	1	.11	1.3	.8	SF1	1.4X	226	13
2002	DEC	31	0745	33.30	19	20.14	155	8.63	7.67	29	6	.12	1.1	.8	SF4	1.8X	208	6
2002	DEC	31	0811	37.07	19	12.70	155	31.65	39.69	21	5	.10	1.2	1.5	DLS	1.4X	200	19
2002	DEC	31	1416	10.38	19	5.91	155	29.52	28.93	5016		.09	.6	1.1	DLS	2.6X	179	7
2002	DEC	31	1454	37.11	19	23.90	155	29.86	8.66	16	3	.09	.5	.9	KAO	1.4X	133	5
2002	DEC	31	1456	10.13	19	19.14	155	12.87	8.21	27	2	.11	1.1	.7	SF2	1.6X	227	6
2002	DEC	31	1814	32.33	19	47.80	154	50.68	40.82	23	5	.13	1.6	1.4	KEA	1.9X	268	22
2002	DEC	31	2208	19.30	19	23.82	155	3.33	3.06	27	6	.13	1.0	1.4	SME	1.7X	187	8

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

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S SEC	KM	KM	RMKS	MAG	GAP	DS
2002	JAN	8	1522	3.19	17	39.69	155	4.42	36.61	29	4 .09	2.5	3.5	DIS	3.1X	331	159
2002	JAN	18	0118	14.50	19	21.57	155	4.98	9.08	4913	.13	.5	.4	SF5F	4.1U	149	5
2002	MAR	22	0409	21.80	19	22.11	155	28.75	10.70	5013	.12	.3	.4	KAOF	3.4X	37	2
2002	MAR	24	2308	57.41	20	12.26	154	46.44	2.44	4210	.10	1.7	1.1	KEA	3.3X	256	62
2002	APR	21	1425	17.29	19	13.39	155	26.72	10.73	46	9 .19	.5	.4	LSWF	3.2X	130	7
2002	MAY	6	2245	51.74	20	10.27	155	23.22	0.43	4511	.12	.8	.3	KEAF	3.2X	201	41
2002	JUN	25	0350	33.53	18	54.03	155	14.00	12.42	39	8 .12	1.2	1.1	LOI	3.0X	266	38
2002	JUN	28	0936	26.40	19	19.75	155	6.88	9.67	5212	.12	.5	.4	SF4F	3.1X	142	5
2002	JUL	5	0431	41.93	18	33.45	154	16.76	11.14	4714	.14	7.5	10.4	DIS -	3.5X	318	120
2002	JUL	21	1445	35.59	19	19.96	155	8.03	8.56	46	9 .11	.4	.5	SF4	3.0X	114	5
2002	JUL	21	1731	24.56	19	18.58	155	13.69	9.40	5112	.12	.4	.3	SF2F	3.3X	70	3
2002	AUG	9	1718	21.11	20	0.59	155	21.85	7.77	5010	.14	.5	.5	KEAF	3.3X	148	13
2002	AUG	13	2137	27.71	20	32.72	155	16.51	12.66	5114	.15	1.1	2.2	DISF	3.5X	237	61
2002	AUG	15	0806	49.06	21	24.61	157	36.63	6.75	4913	.11	2.6	3.0	DISF	3.9X	221	42
2002	AUG	21	1555	44.87	19	17.66	155	13.21	9.94	46	8 .11	.5	.3	SF2F	3.6U	140	1
2002	AUG	21	1603	19.32	19	19.21	155	13.32	8.92	44	8 .12	.4	.3	SF2F	3.0X	164	6
2002	SEP	11	2145	0.00	20	32.31	155	58.14	30.70	5014	.14	1.2	1.7	DISF	3.4X	185	36
2002	OCT	5	2241	18.18	19	55.40	155	32.50	37.01	4913	.11	.6	1.1	KEAF	3.1X	119	14
2002	DEC	12	1716	54.86	19	38.18	155	50.93	24.66	5013	.10	.5	1.1	KONF	3.5X	108	6
2002	DEC	14	1734	40.35	19	20.06	155	11.76	9.92	3810	.11	.7	.3	SF3	3.2X	165	6
2002	DEC	14	1931	14.79	19	38.56	156	10.48	45.11	4713	.09	.9	1.3	KONF	3.8X	242	16
2002	DEC	25	1452	58.54	19	14.21	155	34.03	6.55	4712	.12	.3	.7	LSWF	3.5X	73	14