Hawaiian Volcano Observatory Summary 103; Part I, Seismic Data, January to December 2003

by Jennifer S. Nakata

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

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INTRODUCTION

The Hawaiian Volcano Observatory (HVO) summary presents seismic data gathered during the year and a chronological narrative describing the volcanic events. The seismic summary is offered without interpretation as a source of preliminary data. It is complete in the sense that 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 2003
by
T. Orr, R. Hoblitt and C. Heliker

Lava covered 17.2 km^2 from January 21, 2003, through the end of the year. Only 4.7 km^2 of this was virgin, vegetated land, most of which was located along the west margin of the existing flow field (0.4 km^2 consisted of kipuka within the existing flow field). The total area covered by lava since 1983 is 116.9 km^2, and the estimated volume of erupted lava is approximately 2.6 km^3 (dense rock equivalent). For all the latest eruption statistics, refer to table C-1.

No pauses in magma supply to the Pu'u 'O'o flank vent(s) occurred in 2003. Two "surge-style" events occurred on January 21 and August 9. These events have a characteristic tilt signature—recorded at both the summit and Pu'u 'O'o cone—of an initial slow deflation, followed by rapid inflation, then a final deflation that is usually accompanied by a surge in effusion at the eruption site. Both of the events in 2003 resulted in large breakouts high on the Mother's Day tube. In both cases, sustained surface flows resulted in the development of new lava tubes, which gradually captured all of the flow to the old Mother's Day tube below the 2,390-ft elevation.

Flows and tubes

Kohola. The January 21 event triggered large breakouts that recoated much of the upper Mother's Day flow and spread down the west side of the existing flow field, forming the Kohola tube (fig. C-1). The Kohola flow reached the sea on February 14. The entry was short-lived, but the flow remained vigorous on the coastal plain through most of May. Activity then stagnated on the lower reaches of the Kohola until early July, when a new series of breakouts, originating near the top of Pulama pali, reached the coastal plain. By the end of August, this lobe had reached its maximum seaward extent, 550 m short of the ocean, but breakouts from the flow on the coastal plain continued until the last week of September. Meanwhile, in early August, a new breakout from the Kohola tube fed flows that cascaded down Holei Pali west of the main Kohola field. These flows reached the coastal plain on August 4 but stagnated after 5 days.

Substantial breakouts from the Kohola tube continued on the upper slopes of Pulama pali through October. On October 30, one flow made it to Paliuli before quickly stagnating. Flows remained active on the upper slopes of Pulama pali until early November.

Eastside. In mid-February, breakouts from the old Mother's Day tube at about the 2,350-ft elevation began advancing down the east side of the existing Mother's Day flow and eventually formed the Eastside tube. Breakouts from this tube reached the coastal plain on April 7, and a narrow lobe reached the ocean 10 days later at Lae'apuki. This flow stagnated after a few days. A new lobe reached the ocean at Highcastle and entered water from May 18 to July 9. The last observed breakout on the coastal plain from the 'Highcastle lobe' of the Eastside flow was observed on July 12. Breakouts from the Eastside tube continued on Pulama pali and above; one flow reached the coastal plain during the first week of August but quickly stagnated. Diminishing activity on this tube continued through early October.

August 9. The main thrust of the breakouts initiated by the August 9 surge-style event was to the southeast. By September 11, the August 9 flow was pouring over Pulama pali in a series of large fingers and, in the next two weeks, reached the 550-ft elevation. During the last week of September, the active terminus of the August 9 flow began to retreat upslope as the lower part of the flow stagnated. At the beginning of October, minor activity still continued on the August 9 and Eastside tubes on Pulama pali, but, by mid-month, breakouts from these tubes had retreated above the pali.

Old Mother's Day. The Kohola and Eastside branches didn't immediately capture the entire volume of the old Mother's Day tube, and lava continued to reach the ocean via that route at the West Highcastle entry through mid-May. Breakouts from the old tube continued on Pulama pali, and in mid-June flows approached within 700 m of Paliuli. Breakouts on the Old Mother's Day tube gradually diminished through July. Following the August 9 event, the Old Mother's Day tube seemed to lose most of its supply, although above Pulama pali it was difficult to match the voluminous breakouts with their respective tubes. By November, however, the Old Mother's Day tube appeared to be extinct below the 2,390-ft elevation.

Activity retreats upslope

Breakouts on the lower reaches of the Kohola, August 9, and Eastside branches of the Mother's Day tube steadily diminished during October, and no active lava reached the coastal plain for the first time since June 2002. The last surface flow active below the top of the pali (in the Kohola) was spotted on November 11, and the Kohola tube was no longer in service by the end of November. Thereafter, all surface flows from the Mother's Day tube were associated with rootless shield activity fed by the August 9 tube.

Ocean entries

Lava entered the ocean at five different locations during 2003 (table C-2), and none of the entries persisted for long. The longest-lived entry of 2003 was at West Highcastle, which was active at the beginning of the year and remained so until mid-May, when the old Mother's Day tube began to stagnate as newer tube branches captured its supply. These new tubes, however, didn't manage to produce a memorable entry, perhaps because they split the supply between them. The Kohola flow reached the ocean with a flourish on Valentine's Day, after devouring a fresh section of the Chain of Craters Road and forcing the Park Service to move their mobile visitor center. The new entry, however, was active for a scant two weeks.

The Eastside tube made a feint at Lae'apuki in mid-April, but the flow died after two days. Another flow fed by the same tube established a beachhead at Highcastle in mid-May. This entry lacked conviction, however, and was distinguished by its consistent lack of vigor, producing a weak plume that was scarcely visible at a distance. The Highcastle entry was last reported active on July 9, and that was it for ocean entries in 2003.

The Pu'u 'O'o crater

The crater was quiet during almost the entire first half of 2003. Most of the prominent cones and pits on the crater floor (fig. C-2), including the East Pond Vent, the January vent, the Drainhole, and the Beehive vent (all of which formed during the first half of 2002), were incandescent, and sometimes the glow was strong enough to be visible from Highway 11 on clear nights.

A small flow from the South Wall Complex and Humble vents was emplaced two days after the January 21 surge-style event. Thereafter, no flows were active in the crater until June, when two small pahoehoe flows extruded from the Drainhole and January vents.

Beginning in August, gas pistoning from the January and East Pond vents was occasionally accompanied by spattering and/or extrusion of small lava flows.

On October 2, coincident with the first lava flows from the West Gap Pit, Dave's Pit, on the southwest edge of the crater floor, produced a small flow for the first time in 2003. On October 27, Dave's Pit produced another flow, again in concert with the beginning of renewed activity in the West Gap. The January vent and Dave's Pit were again active at the end of October. Activity was intermittent through November, with flows from the Humble and January vents, frequent gas-jetting from several vents, and spattering from the Beehive vent. The frequency of lava flows in the crater picked up greatly in the last half of December, but the crater floor wasn't completely repaved with new lava until January (see December-January report above.)

Puka Nui and the West Gap

Puka Nui showed little change during the first three quarters of 2003. New rock fall was observed following the January 21 surge-style event, but otherwise this composite collapse feature was stable until renewed activity filled the pit with lava in the last three months of the year.

Likewise, the West Gap Pit and 55 cone/pit were quiet until October. A new incandescent area was first observed on the northwest wall of the West Gap pit on June 6, and, later in the same month, was the source of a pulsating gas jet. The incandescent area became the site of the eastern spatter cone in the West Gap at the end of the year. Later in the summer, incandescence was also spotted from a pit at the base of the large West Gap Pit hornito, and from the small collapse pit in the filled 55 cone/pit just southwest of West Gap Pit. Both of these areas also produced lava in the autumn.

As the distal end of the tube system atrophied, effusive activity began in early October at the West Gap pit and subsequently in Puka Nui and the 55 cone/pit. None of these areas had been active since early May 2002.

Table C-1. Eruption statistics, 1983–2003.

Areas

Total area covered by lava, 3/83–12/31/03: **116.9 km²** (45.1 mi²)

Episode	Area originally covered	Area still exposed, 12/31/02
1–48b (mostly Pu'u 'O'o)	42.0 km²	17.3 km²
48 (Kupaianaha)	41.0	34.6
49 (between Pu'u 'O'o & Kupaianaha)	3.9	3.7
50 (Pu'u 'O'o flank vents)	1.0	0.12
51–52 (Pu'u 'O'o flank vents)	12.3	0.18
53 (Pu'u 'O'o flank vents)	19.4	3.4
54 (in & NE of Napau Crater)	0.24	0.24
55 (Pu'u 'O'o flank vents)	57.4	57.4

New (vegetated) territory covered in 2003: **4.7 km²**

Net total of new land created, Nov. 86–Dec. 2003: ~**225 hectares** (~560 acres)*
Net new land created during 2003: ~**0.8 hectares** (2 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, the total area of new land has decreased in some years.

Volumes

Total, 1/83 through 12/03. Approximately: **2.6 km³** (dense rock equivalent)

Episodes 1–48b (1/83–6/86)	**.391 km³**
Episode 48 (7/86–2/92)	**.500 km³**
Episode 49 (11/91)	**.011 km³**
Episode 50 (2/92–3/92)	**.005 km³**
Episode 51-52 (3/92–2/93)	**.078 km³**
Episode 53 (2/93–1/97)	**.535 km³**
Episode 54 (1/97)	**.0003 km³**
Episode 55 (2/97– ongoing)	**1.12 km³**

Other fascinating facts

Height of the Pu'u 'O'o cone: **~181 m** (595 ft). Cone has lost **~74 m** (242 ft) to collapse since 1986
Dimensions of the Pu'u 'O'o crater: **~250 m x 400 m** (820 x 1312 ft)
Depth of the Pu'u 'O'o crater floor below east rim, Dec 2003: **~8 m**

Dimensions of episode 50–55 lava shield: ~ **1.9 x 1.0 km**
Height of episode 50–55 lava shield: **~90 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 in 2003: **640 m** (2,100 ft)
Total highway covered in eruption: **14.3 km** (8.9 mi)

Structures destroyed

No structures destroyed in 2003
Total structures destroyed since 1983: **189**

Table C-2. Ocean entries, from west to east, active during 2003 (several began in 2002).

Ocean entry	Dates of activity *2002 dates in italics* **2003 dates in bold**	Final bench dimension	Final bench area (hectares)	Maximum bench area (hectares)
Kohala	**Feb. 14-17, 2003**	165 x 20 m	0.24	—-
Wilipe'a	*Jul. 21-Aug. 8, Aug. 11, 14, 16, Sep. 3*-**Jan. 2, 2003**	750 x 100 m	4.9	14.8
West Highcastle	*Jul. 19-Aug.2, Aug. 7, Aug. 13, Sep. 16-18, Sep. 20*-**May 13, 2003**	800 x 150 m	5.7	10.7
Post-Jan. 21,2003 Highcastle	**May18-July 9, 2003**	320 x 120 m	2.8	2.8
Pre-Jan. 21, 2003 *Highcastle*	*Aug. 8-15, Aug 20-24, Sep. 20-21, Oct. 29, Nov. 11-21, Dec. 9*-**Jan. 7, 2003**	290 x 60 m	1.0	1.3
Lae'apuki	**April 17-18, 2003**	100 x 20 m	0.07	0.07

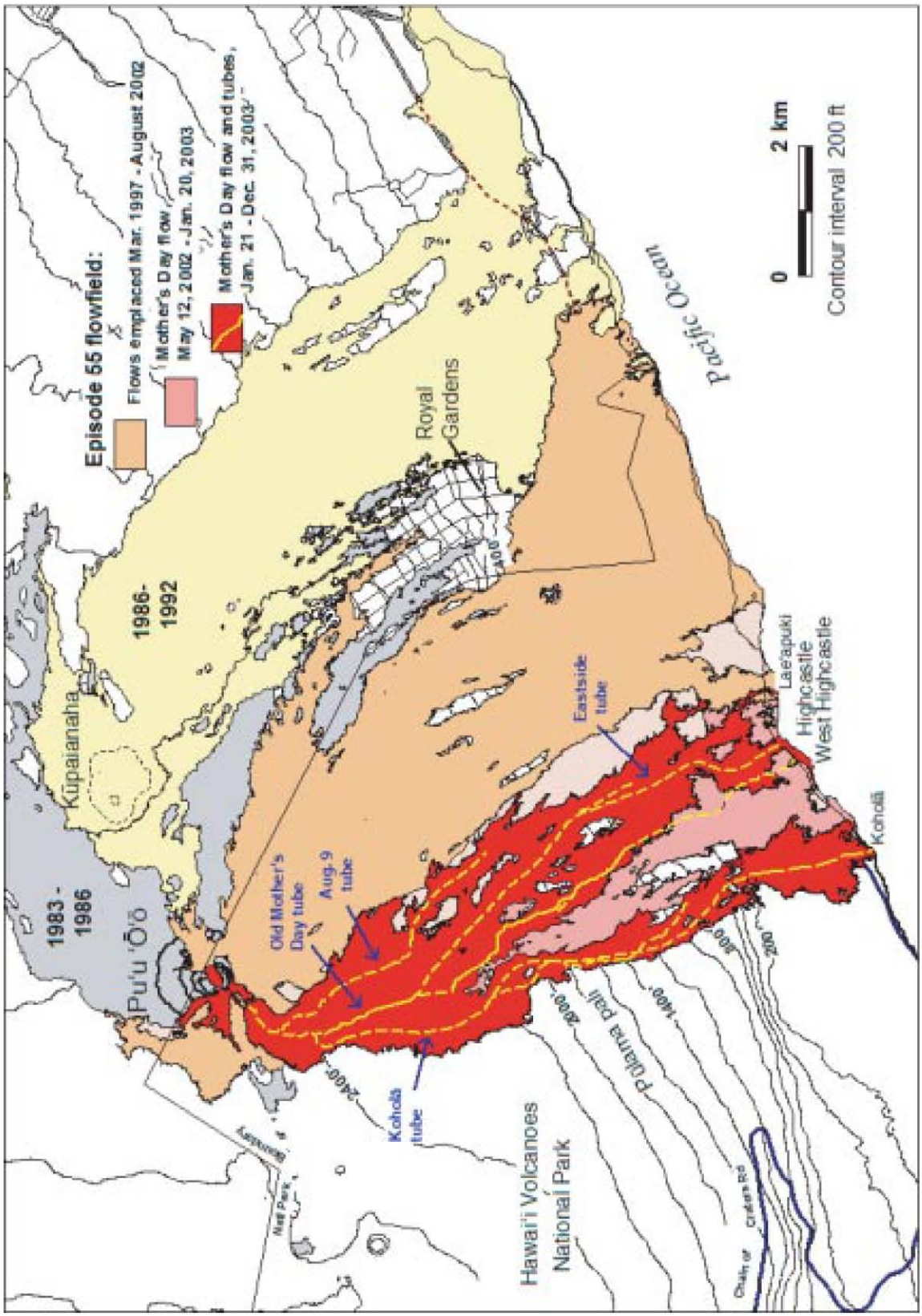

Figure C-1. Lava flows, tubes, and ocean entries active from January 21–December 31, 2003.

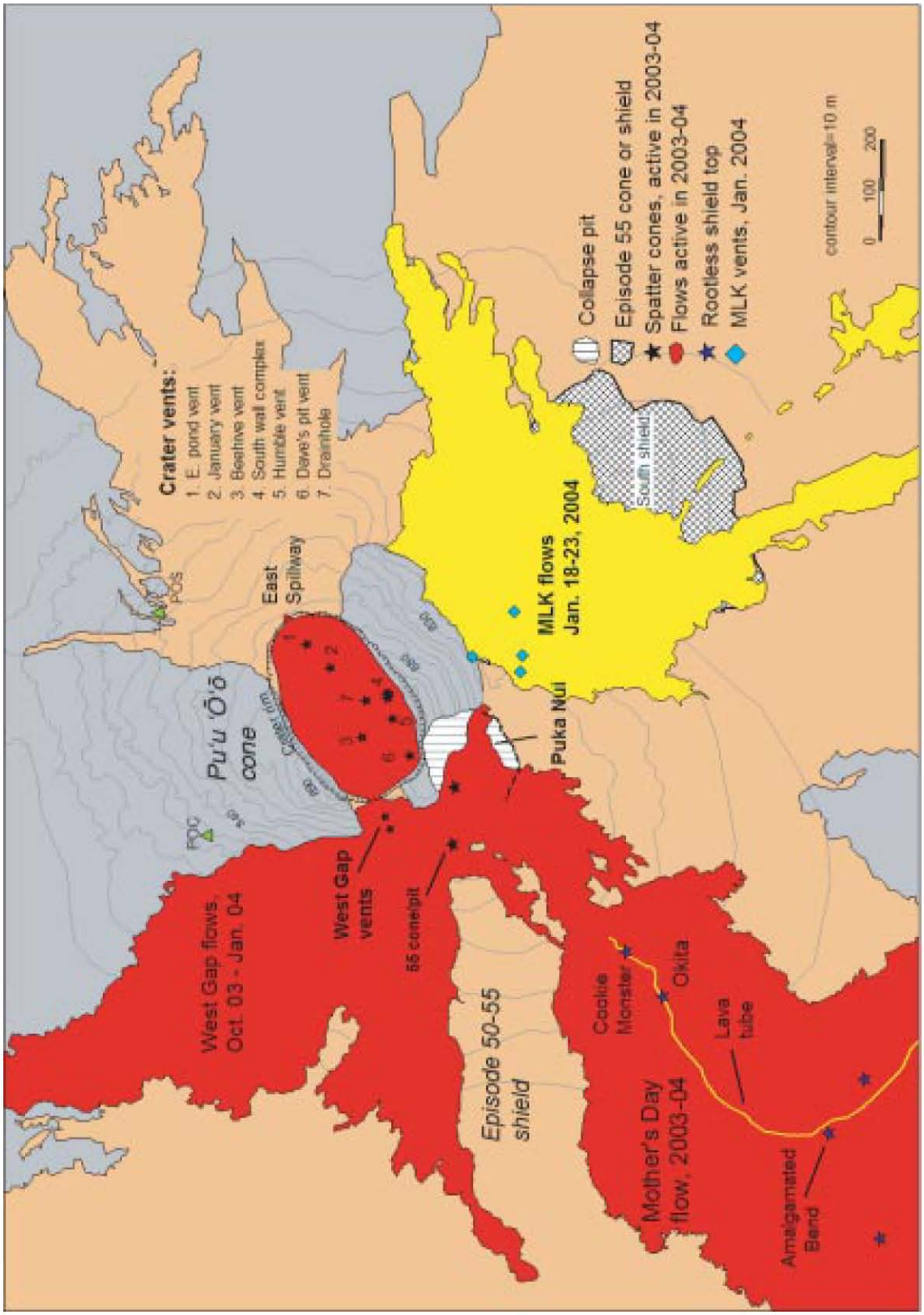

Figure C-2. Map of Pu'u 'O'o cone and the upper Mother's Day lava tube, showing new flows emplaced from West Gap, 55 cone/pit, Puka Nui, and the MLK Vent through January 2004.

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 2003 network consisted of 48 station sites: 8 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 2003. 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 2003. 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 would be 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. Though Develocorder operations have ceased, calculations continue to be based on Develocorder equivalents.

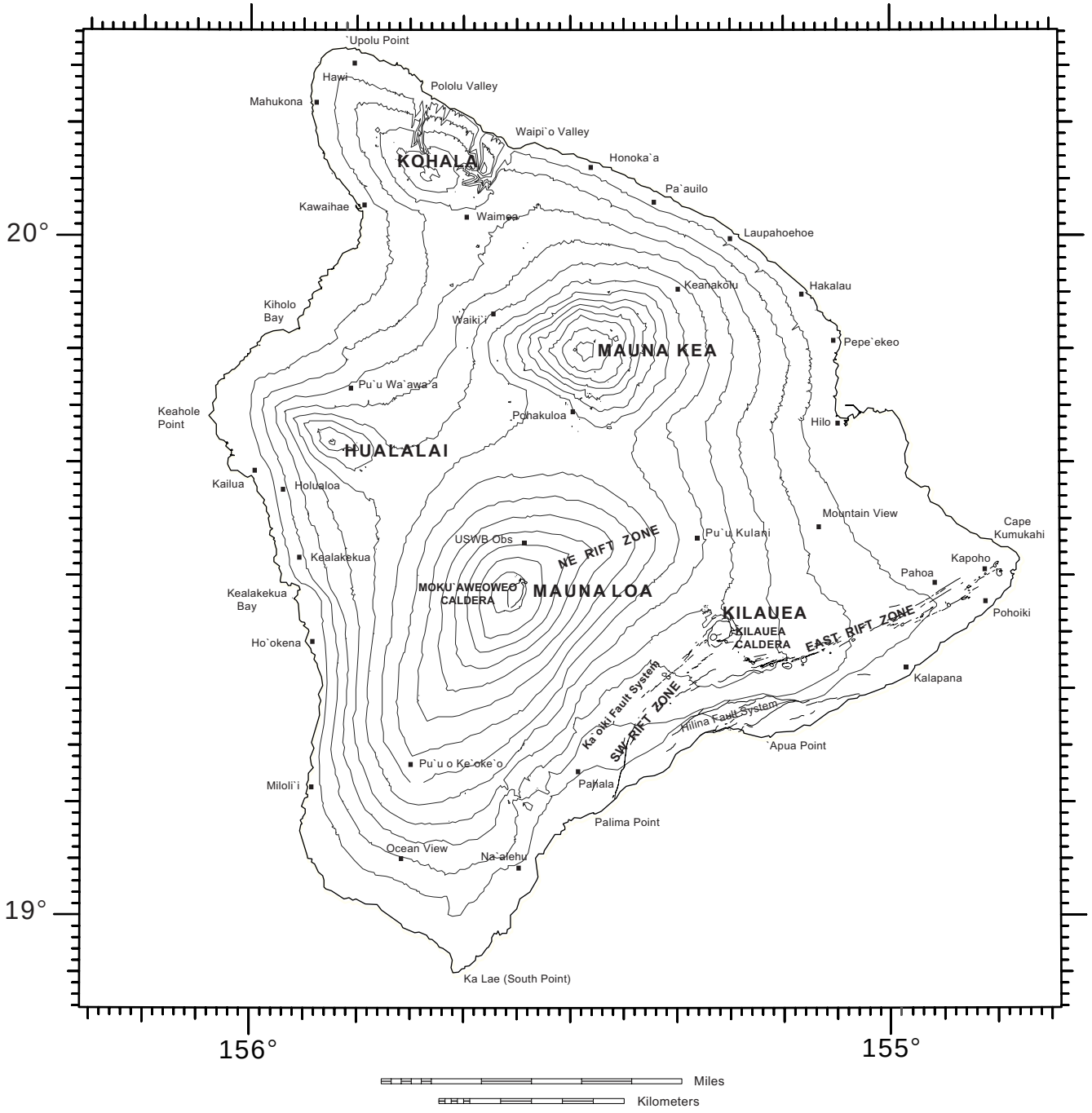

Figure 1. Map of the Island of Hawai'i, showing principal settlements and selected geographic and geologic features.

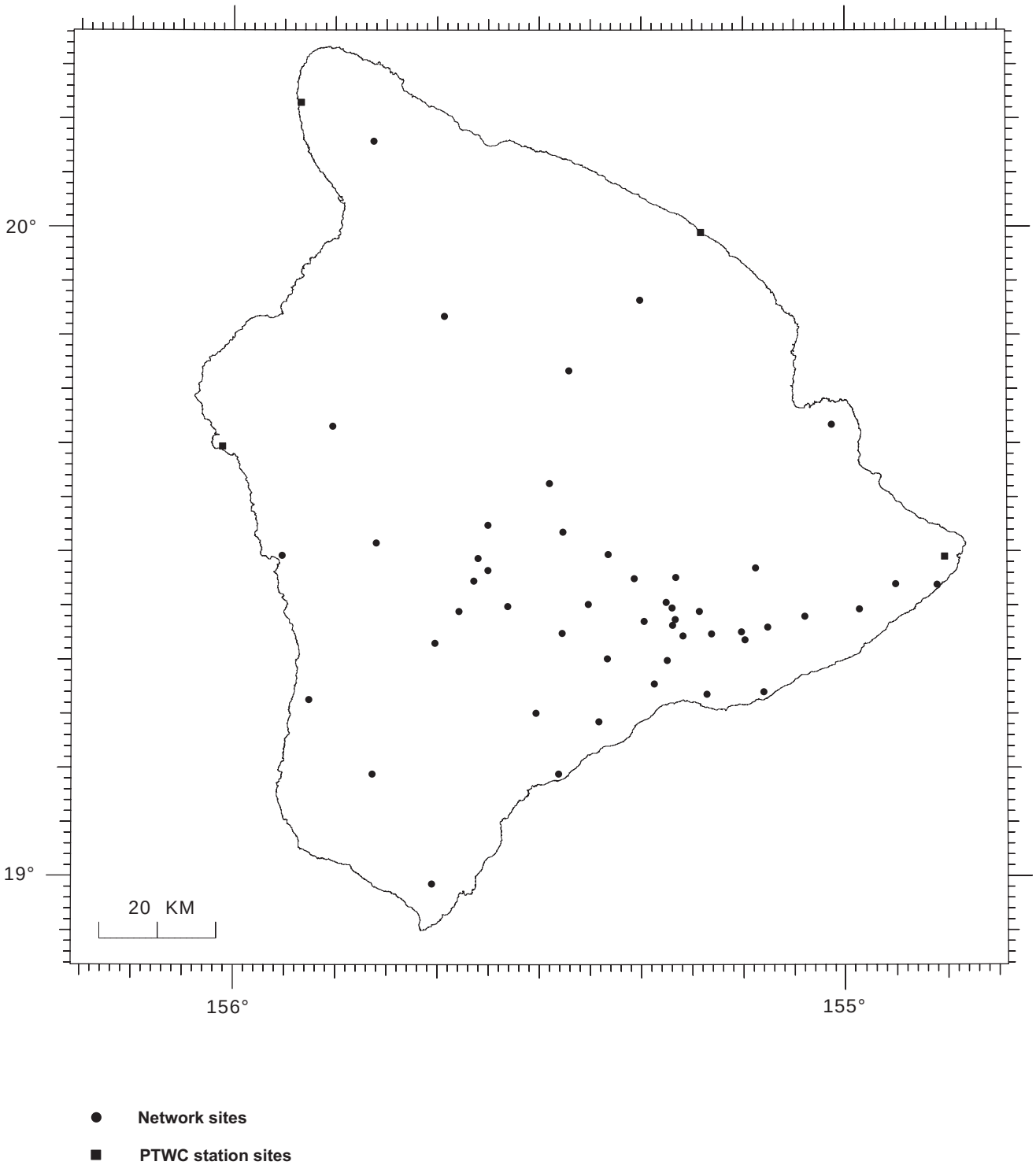

Figure 2. Seismic station sites operated by the USGS and NOAA on Hawai'i Island during 2003 on the Island of Hawai'i.

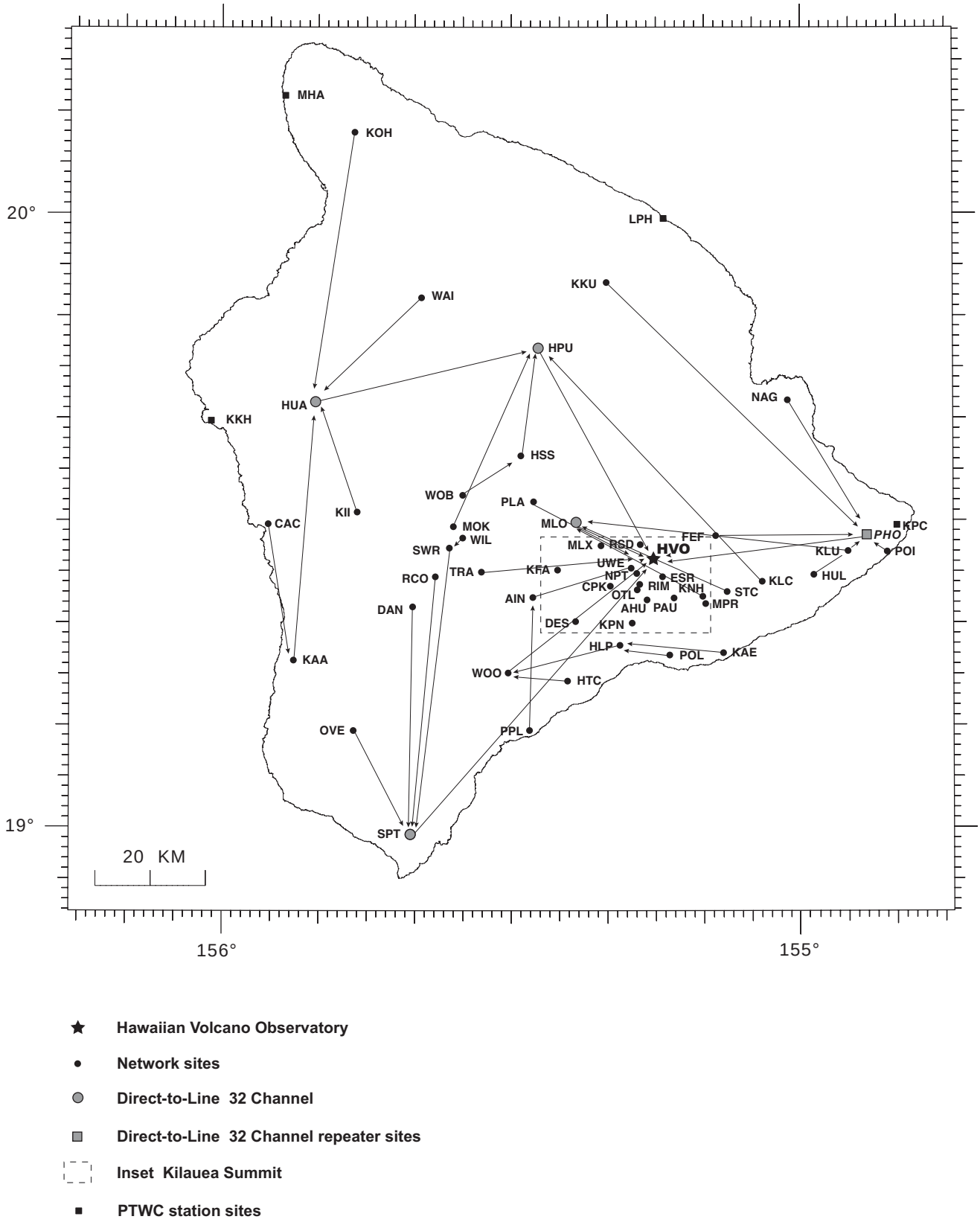

Figure 3. Telemetry scheme for seismic stations operational during 2003 on the Island of Hawai‘i.

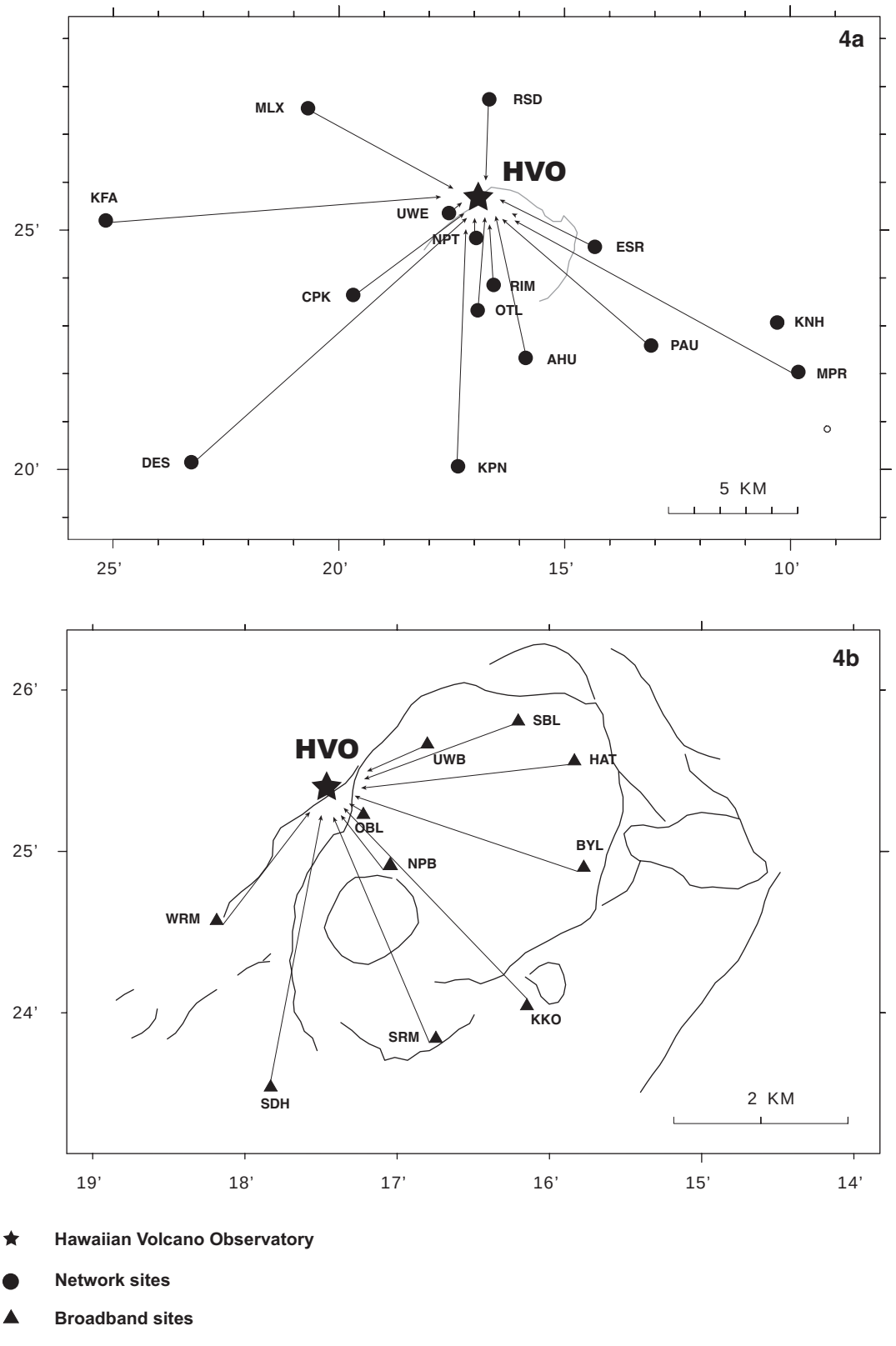

Figure 4a. Expanded telemetry scheme for the 2003 Hawaiian Volcano Observatory seismic network at Kilauea summit.

Figure 4b. Expanded telemetry scheme for the 2003 Menlo Park broadband network at Kilauea summit.

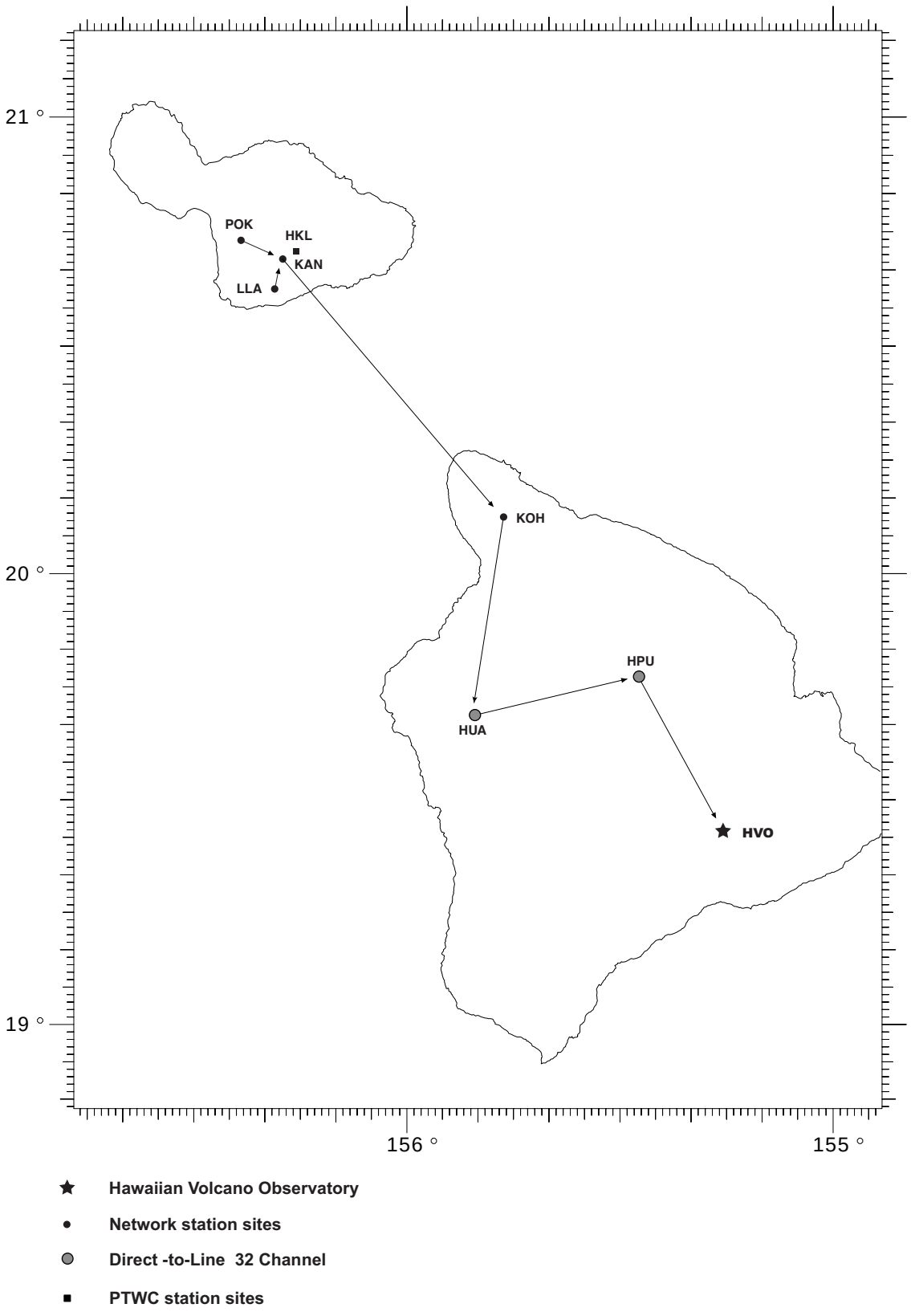

Figure 5. Telemetry scheme for seismic stations operational during 2003 on the Island of Maui.

Table 1. Seismic stations in Hawai‘i operated by the USGS in 2003.

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	S1	H
ESCAPE ROAD	ESRV	19	24.68	155	14.33	1177	-0.17	-0.19	1.2	L5	
FERN FOREST	FEFV	19	28.70	155	8.91	691	0.01	0.05	0.0	L5	
HEIHEIAHULU	HHAZ	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HEIHEIAHULU	HHAE	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HEIHEIAHULU	HHAN	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HALEAKALA, MAUI	HKLZ	20	42.63	156	15.55	3051	0.00	0.00	0.0	S1	H
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	S1	H
HONOLULU, OAHU	HONE	21	19.30	158	0.50	2	0.00	0.00	0.0	S1	H
HONOLULU, OAHU	HONN	21	19.30	158	0.50	2	0.00	0.00	0.0	S1	H
HONUAPO	HPOZ	19	5.34	155	33.23	15	0.00	0.00	0.0	S1	
HALE POHAKU	HPUV	19	46.85	155	27.50	3396	0.31	0.17	3.3	L5	
HUMUULA SHEEP	STHSAZ	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
HUMUULA SHEEP	STHSAN	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
HUMUULA SHEEP	STHSAE	19	36.31	155	29.13	2445	0.20	0.35	0.0	F5	
HUMUULA SHEEP	STHSSV	19	36.31	155	29.13	2445	0.20	0.35	4.0	L5	
HUMUULA SHEEP	STHSSE	19	36.31	155	29.13	2445	0.20	0.35	3.0	L5	
HUMUULA SHEEP	STHSSN	19	36.31	155	29.13	2445	0.20	0.35	3.0	L5	
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	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	17.84	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	
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	S1	
KAILUA, KONA	KKHZ	19	39.40	156	1.12	1	0.00	0.00	0.0	S1	
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	22.95	155	10.32	954	-0.17	-0.20	0.0	L5	I
KANE NUI O HAMO	KNHZ	19	22.95	155	10.32	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	S1	
KIPUKA NENE	KPNV	19	20.10	155	17.40	924	-0.11	-0.08	3.5	L5	

STATION NAME	CODE	—LAT— D	M	—LON— D	M	ELEV (M)	DELAY 1	DELAY 2	CAL	SEIS	OPTIC TYPE	RECORD
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	S1		
MAHUKONA	MHAZ	20	11.27	155	54.18	1	0.00	0.00	0.0	S1		
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		
MAUNA LOA	MLON	19	29.80	155	23.30	2010	0.03	0.08	3.0	L5		
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
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	S1		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	SPDV	18	58.94	155	40.24	250	-0.17	-0.22	0.0	L5		
SOUTH POINT	SPDE	18	58.94	155	40.24	250	-0.17	-0.22	0.0	L5	MW	
SOUTH POINT	SPDN	18	58.94	155	40.24	250	-0.17	-0.22	0.0	L5	MW	
STEAM CRACKS	STCV	19	23.30	155	7.67	765	-0.25	-0.30	3.4	L5		H
SOUTHWEST RIFT	SWRV	19	27.26	155	36.30	4048	0.01	0.04	5.6	E5		
TRAIL	TRAV	19	24.91	155	32.96	3207	0.00	0.00	0.0	L5		
UWEKAHUNA	URAV	19	25.40	155	17.60	1240	-0.21	0.00	0.0	R5		
UWEKAHUNA	URAE	19	25.40	155	17.60	1240	-0.21	0.00	3.0	R5	MW	
UWEKAHUNA	URAN	19	25.40	155	17.60	1240	-0.21	0.00	3.0	R5	MW	
UWEKAHUNA	UUGZ	19	25.40	155	17.60	1240	0.00	0.00	0.0	L0		
WAIKII	WAIV	19	51.58	155	39.60	1433	0.20	0.35	0.0	L5		
WILKES CAMP	WILV	19	28.15	155	35.02	4037	0.22	0.17	2.6	E5		
WILKES CAMP	WILE	19	28.15	155	35.02	4037	0.22	0.17	3.0	L5	MW	
WILKES CAMP	WILN	19	28.15	155	35.02	4037	0.22	0.17	3.0	L5	MW	
WAIMANALO RIDGE,	WMRZ	21	19.22	157	40.94	200	0.00	0.00	0.0	S1		
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.

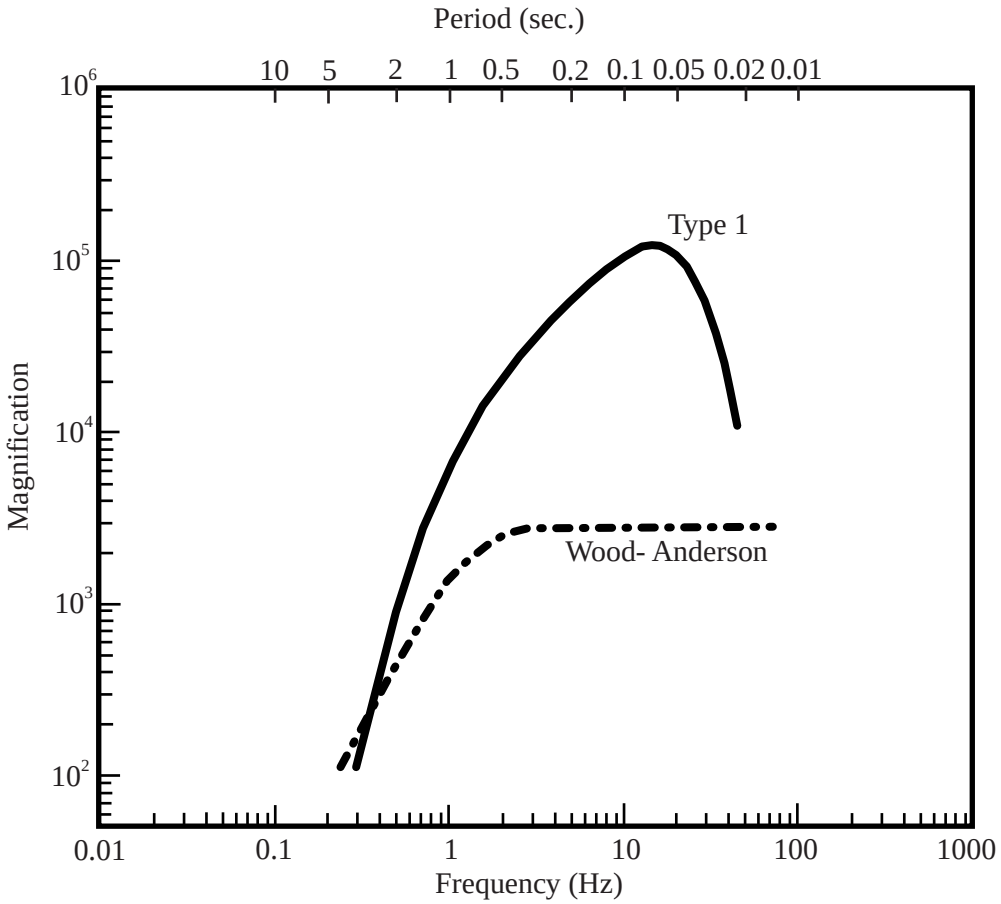

Figure 6. System-response curves for the Wood-Anderson torsion seismograph and for seismometers used by the Hawaiian Volcano Observatory. The Type 1 curve plots the unit response of the standard USGS microearthquake seismometer system as would be recorded on Develocorder film. This includes the geophone, 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.

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[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.

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

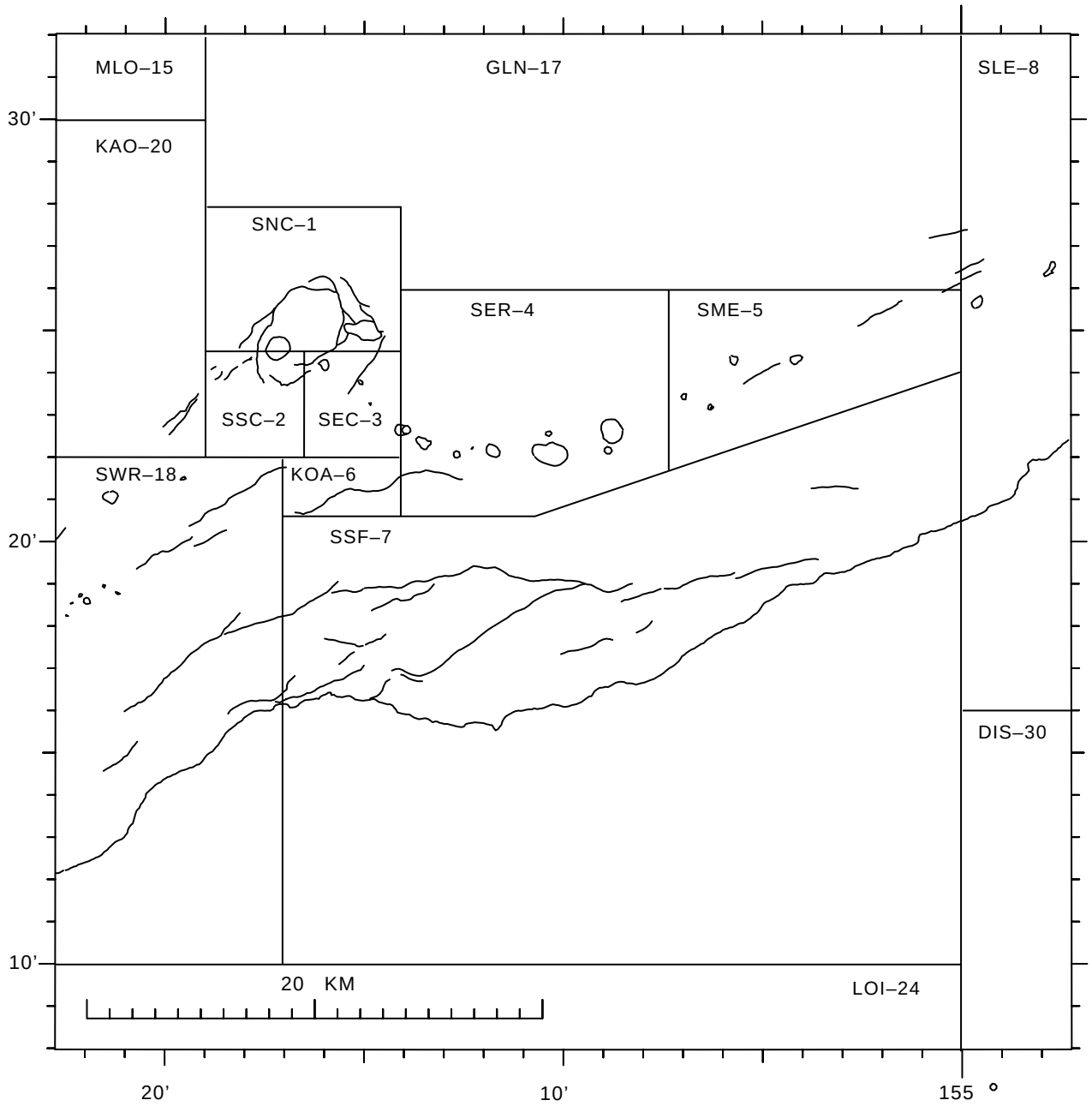

Figure 7. Earthquake classification, shallow (0-5 km deep), for Kilauea and the east flank of Mauna Loa.

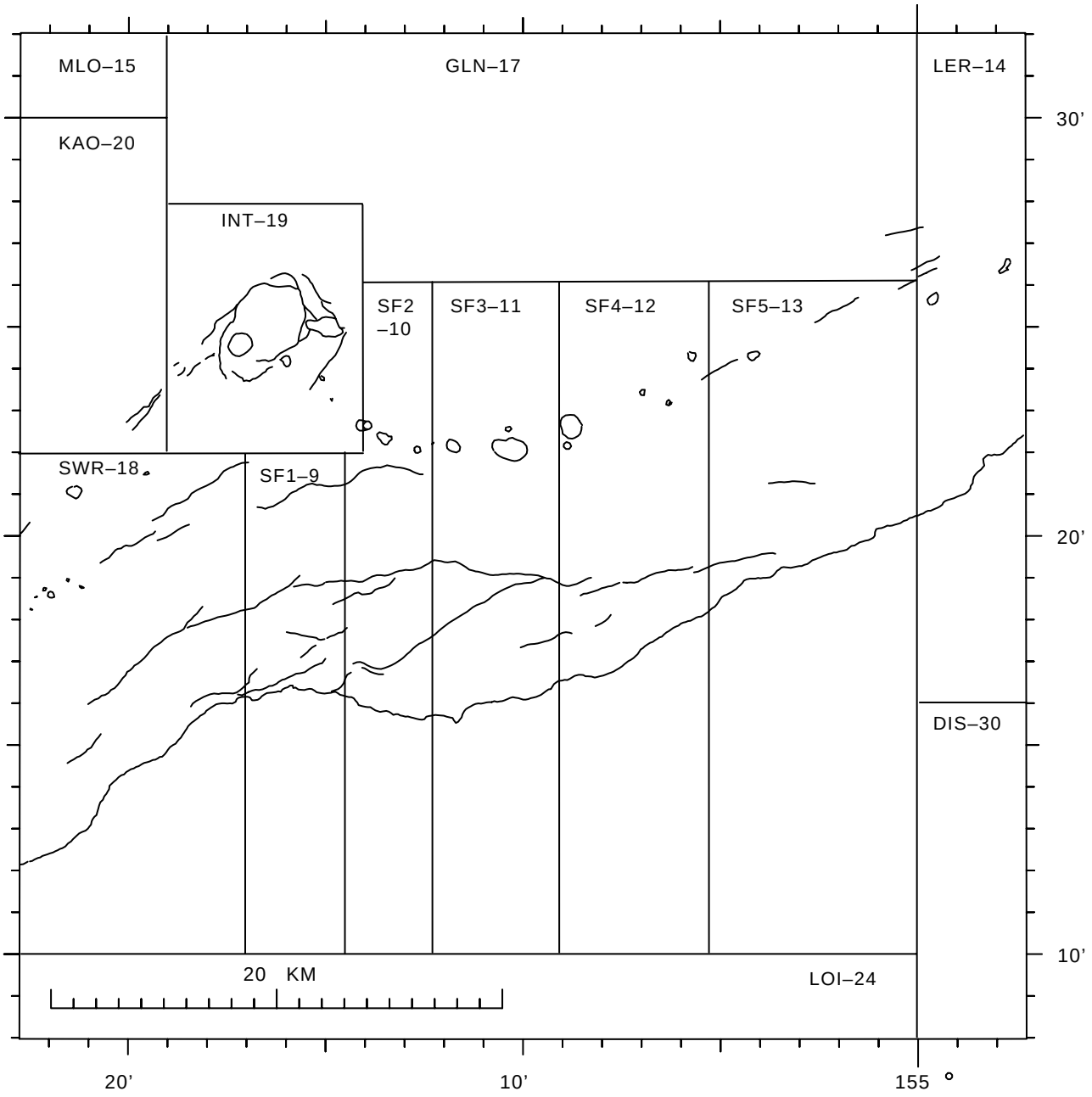

Figure 8. Earthquake classification, intermediate (5.1-13 km deep), for Kilauea and the east flank of Mauna Loa.

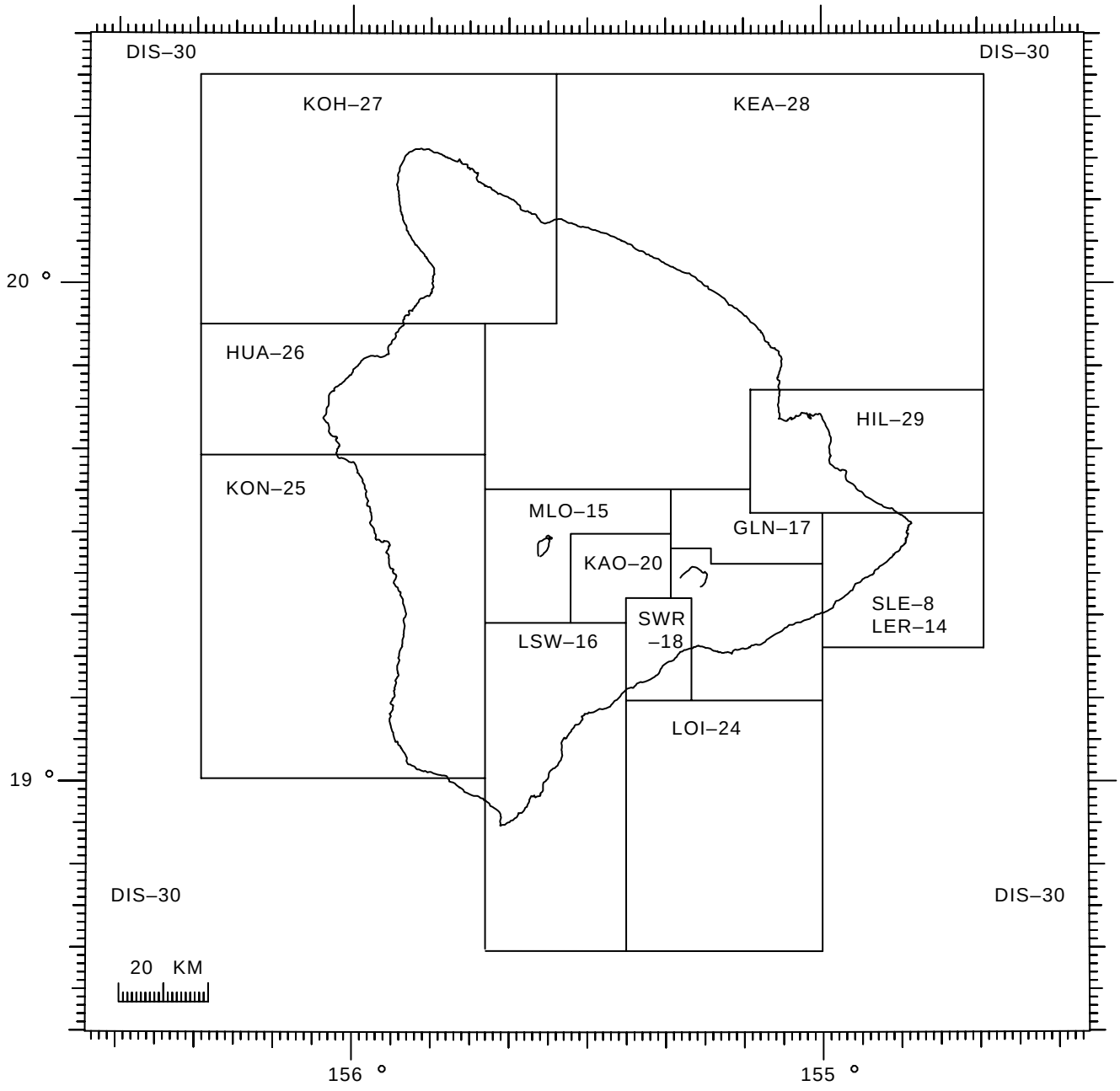

Figure 9. Earthquake classification, crustal (0-13 km deep), for the Island of Hawai‘i.

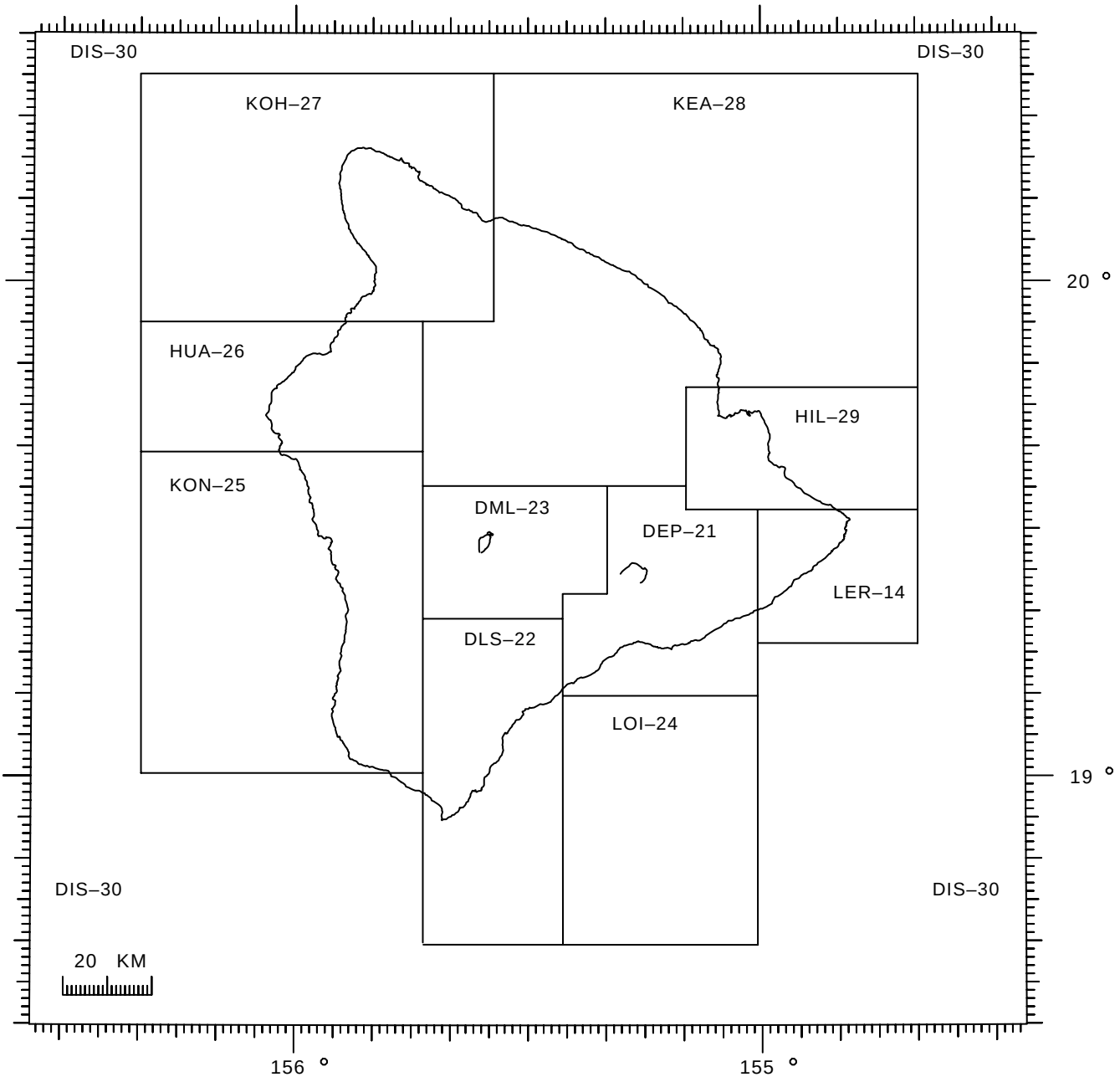

Figure 10. Earthquake classification, deep (greater than 13 km deep), for the Island of Hawai‘i.

Figure 11. 2003 earthquake locations, Hawaiian Islands, 0–60 km depth, M>=3.5.

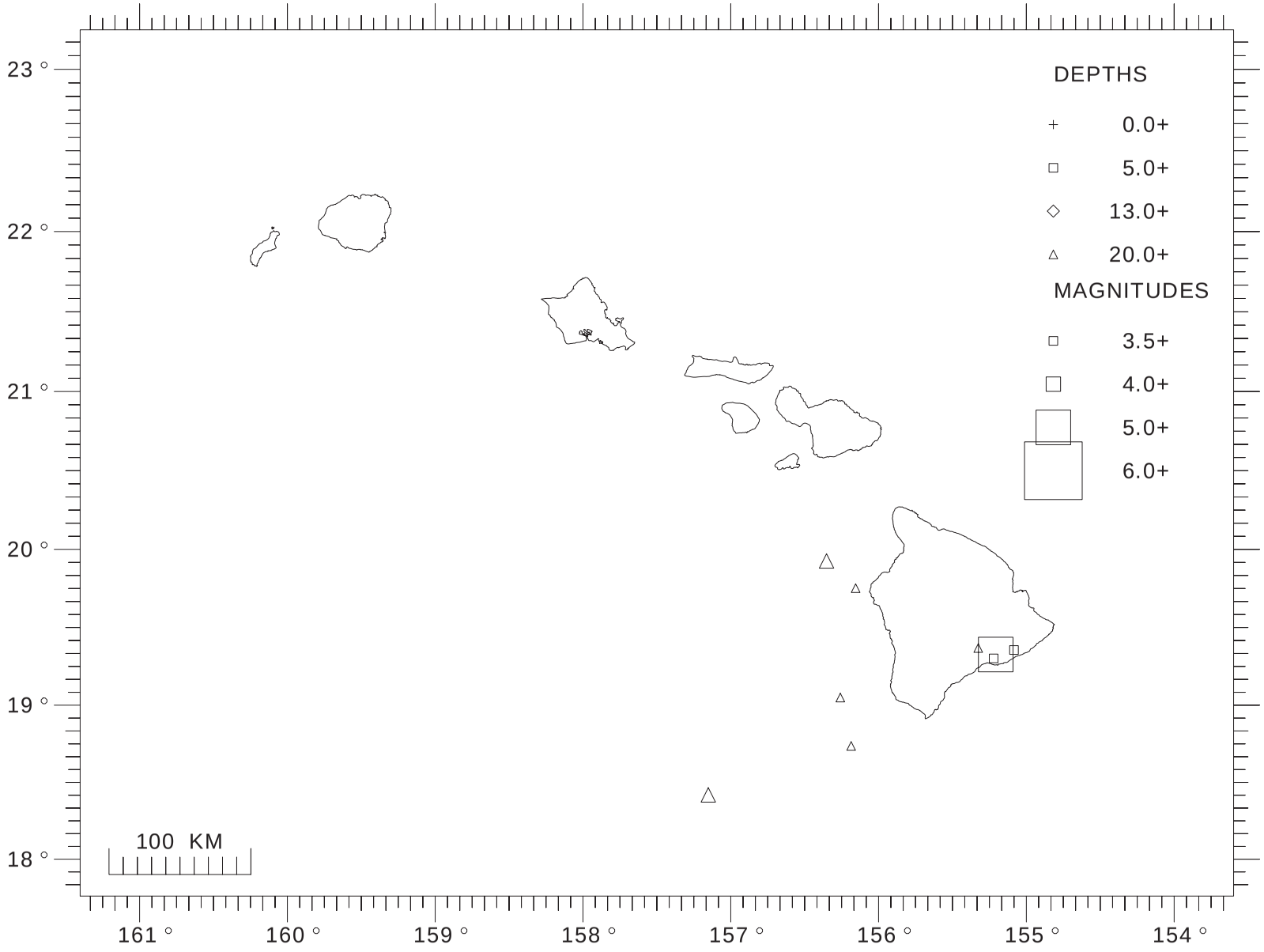

Figure 12. 2003 earthquake locations, Hawai'i Island, 0–60 km depth, M>=3.0.

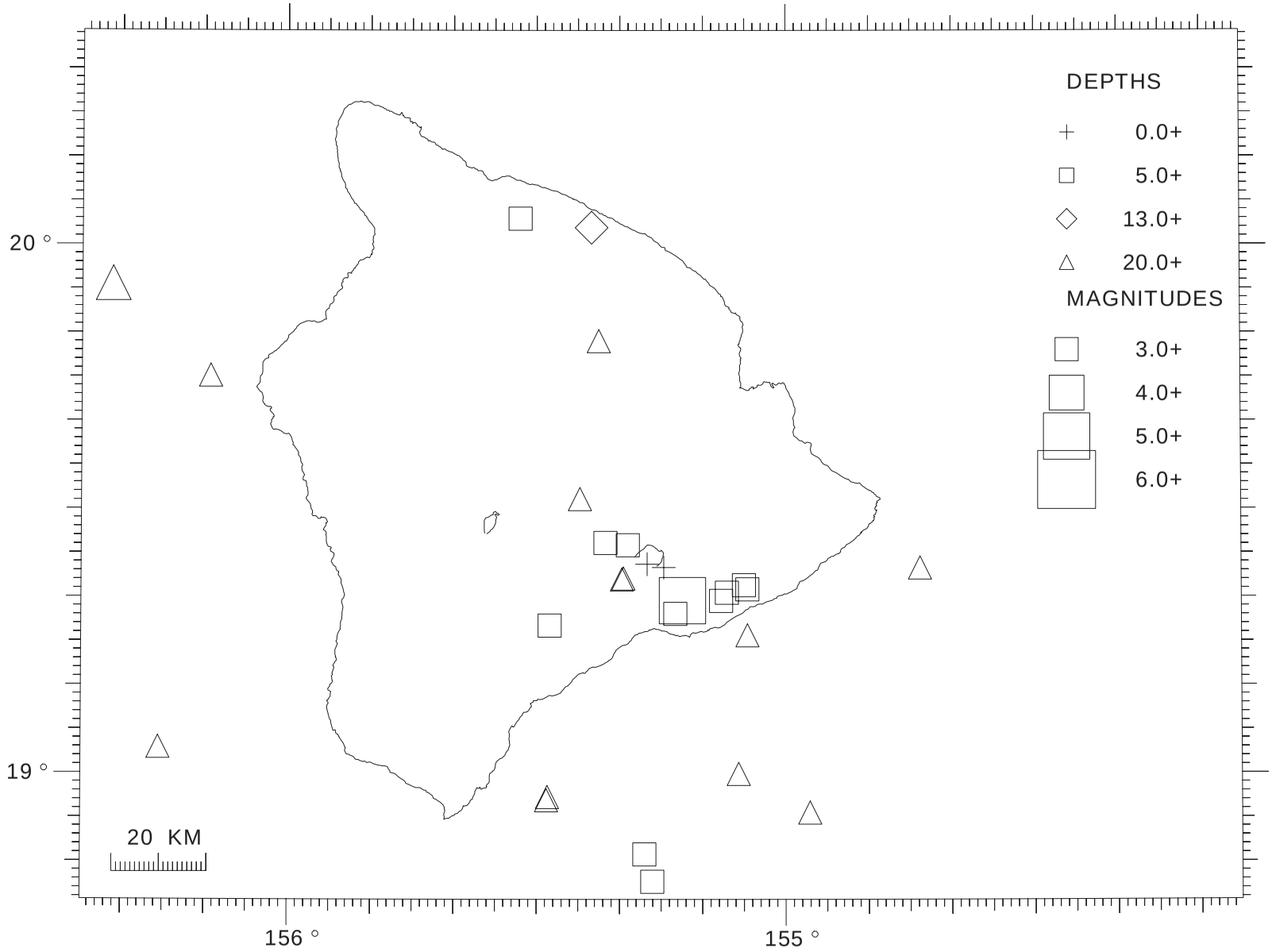

Figure 13. 2003 earthquake locations, Hawai‘i Island, shallow (0–5.0 km depth), M>=2.0.

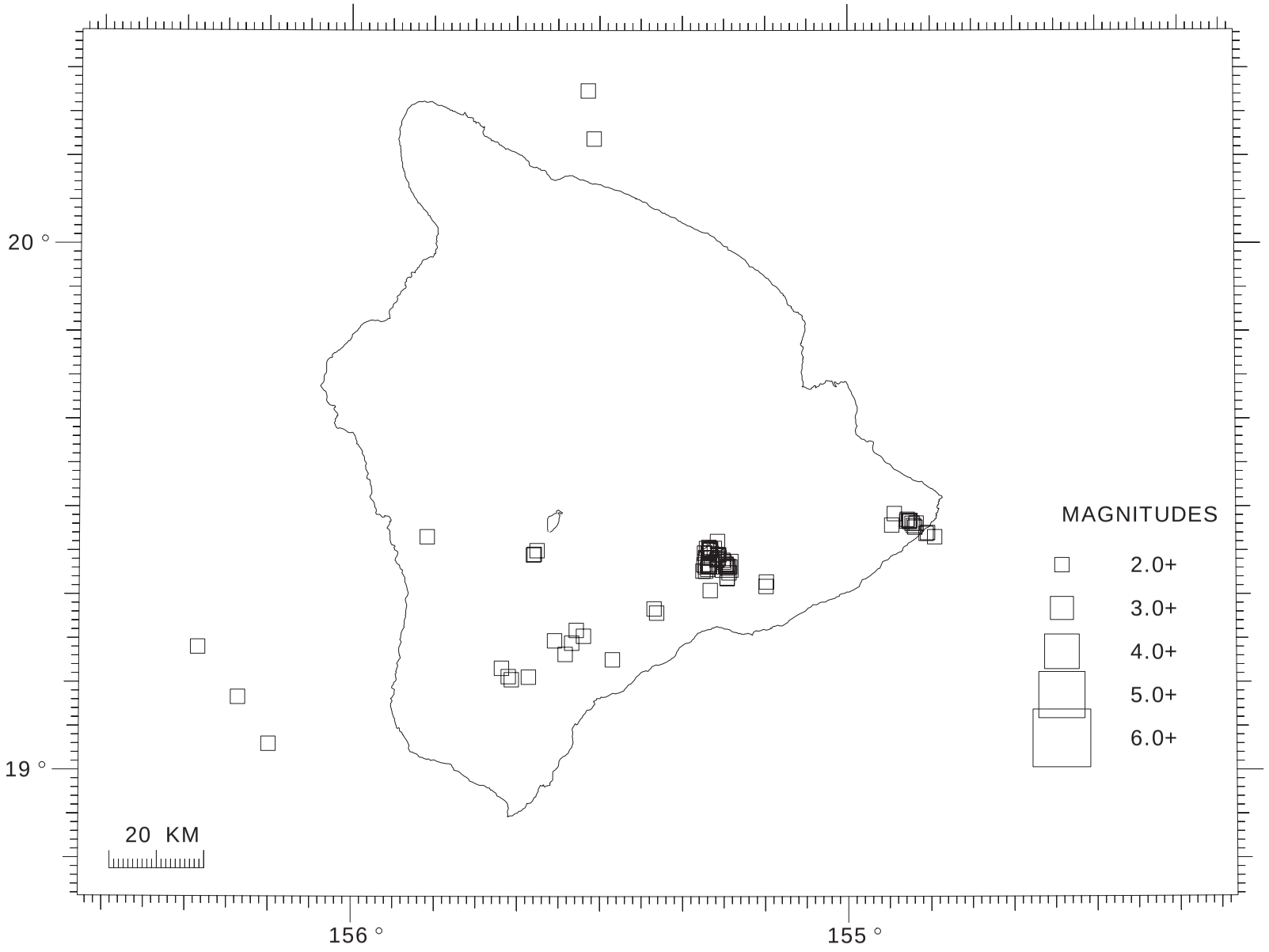

Figure 14. 2003 earthquake locations, Hawai‘i Island, intermediate (5.1–13.0 km depth), M>=2.0.

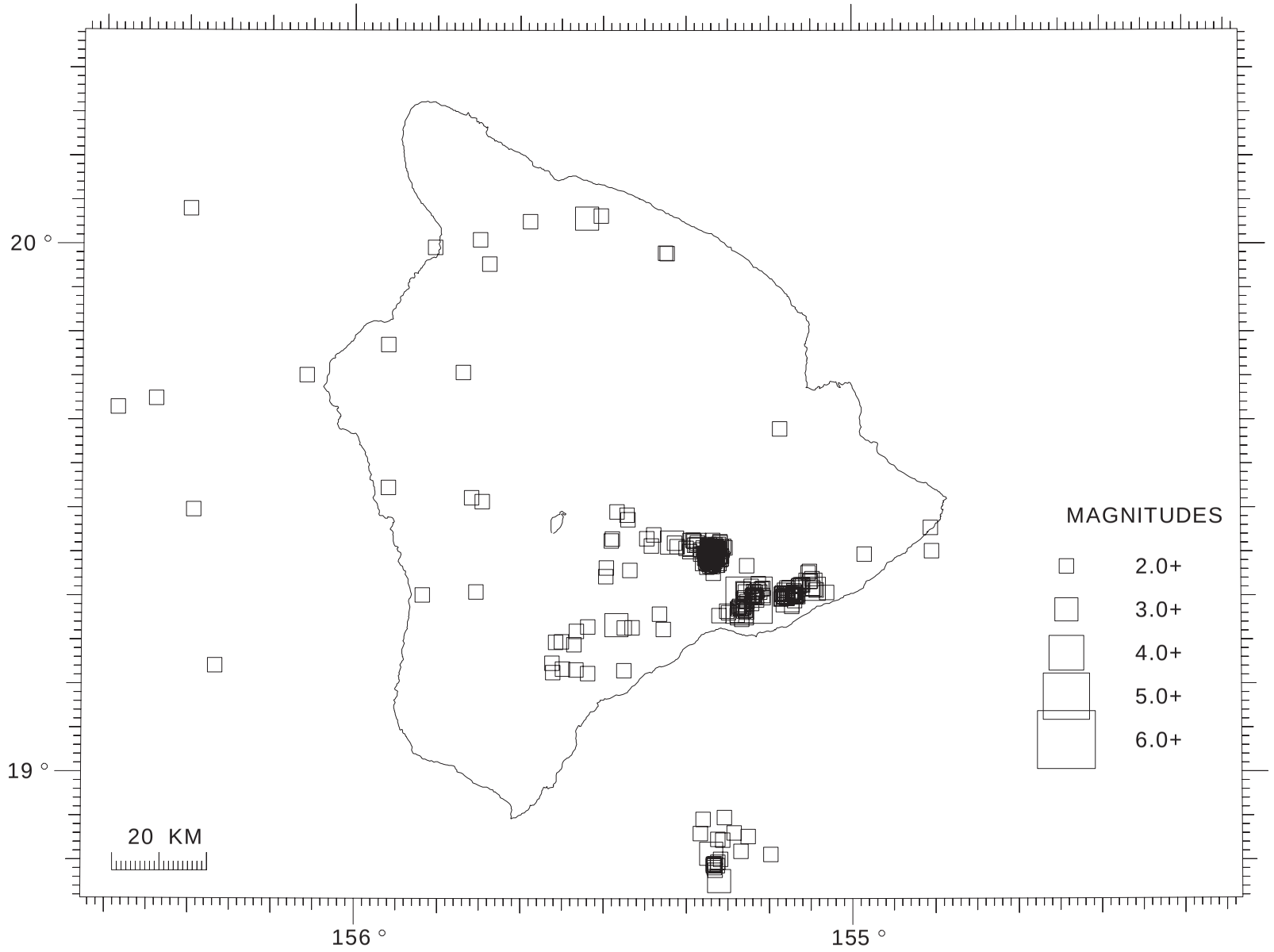

Figure 15. 2003 earthquake locations, Hawai‘i Island, deep (13.1–60.0 km depth), M>=2.0.

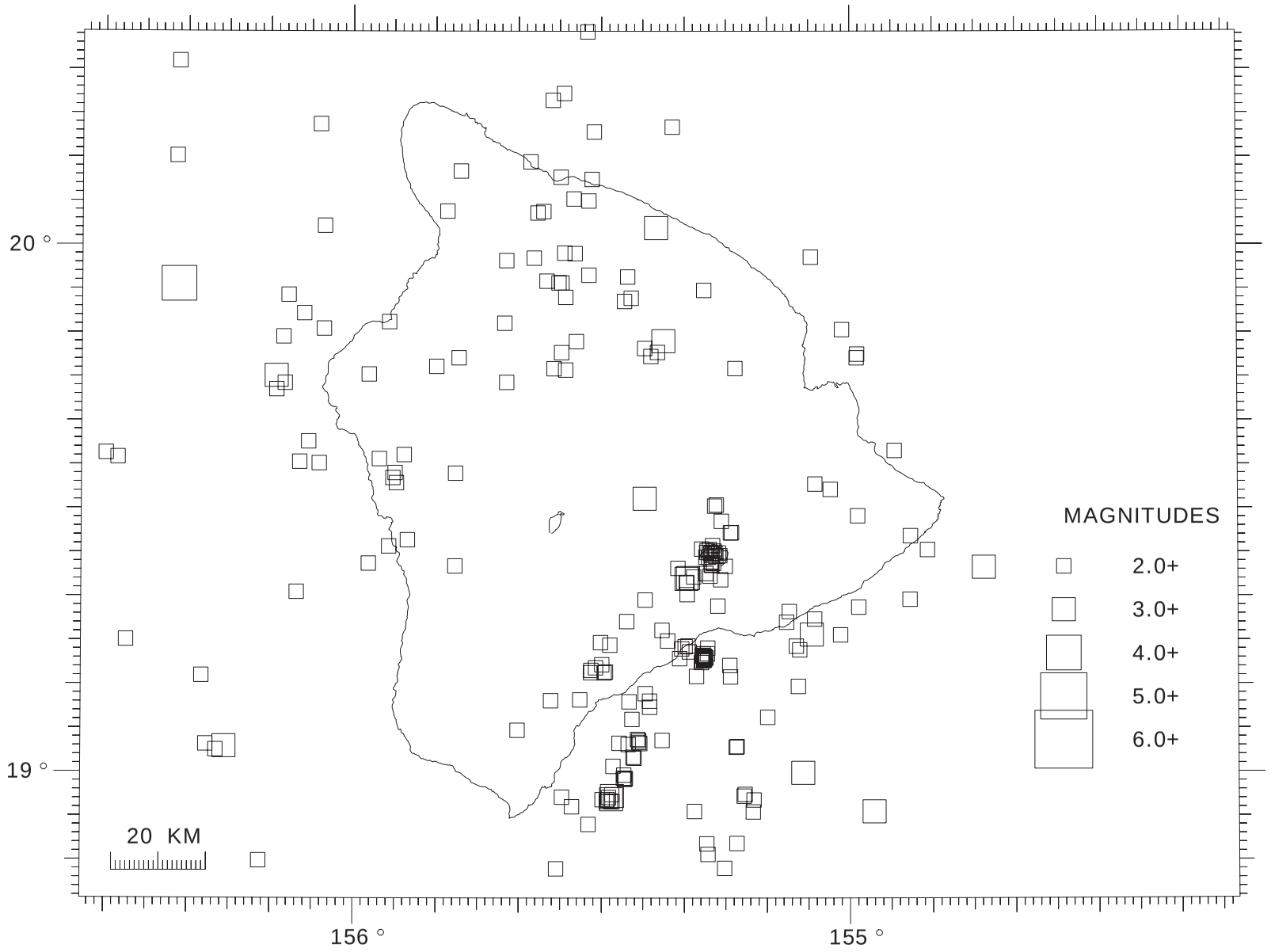

Figure 16. 2003 earthquake locations, Kilauea summit, shallow (0–5.0 km depth), M>=1.0.

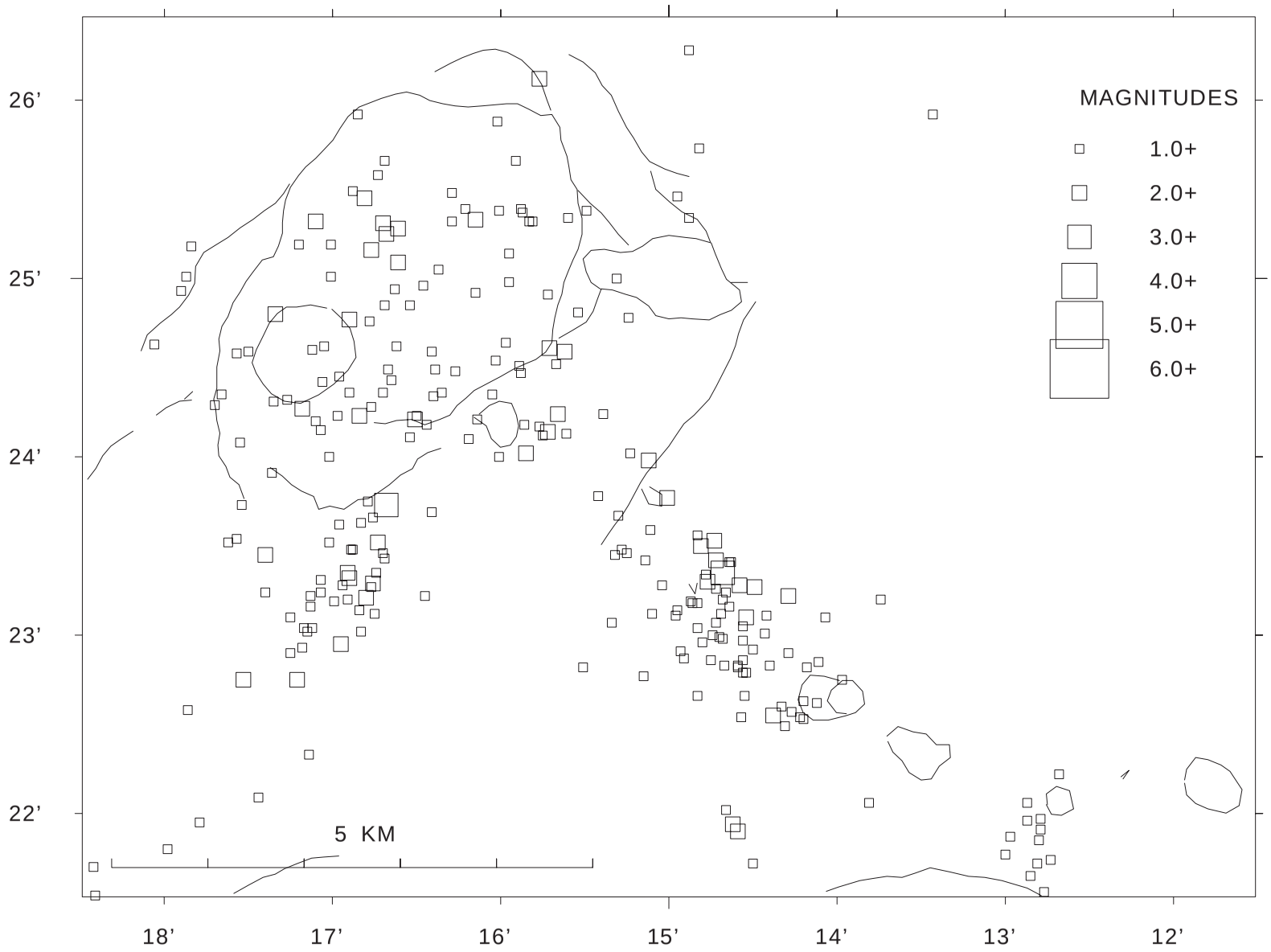

Figure 17. 2003 earthquake locations, Kilauea summit, intermediate (5.1–13.0 km depth), M>=1.0.

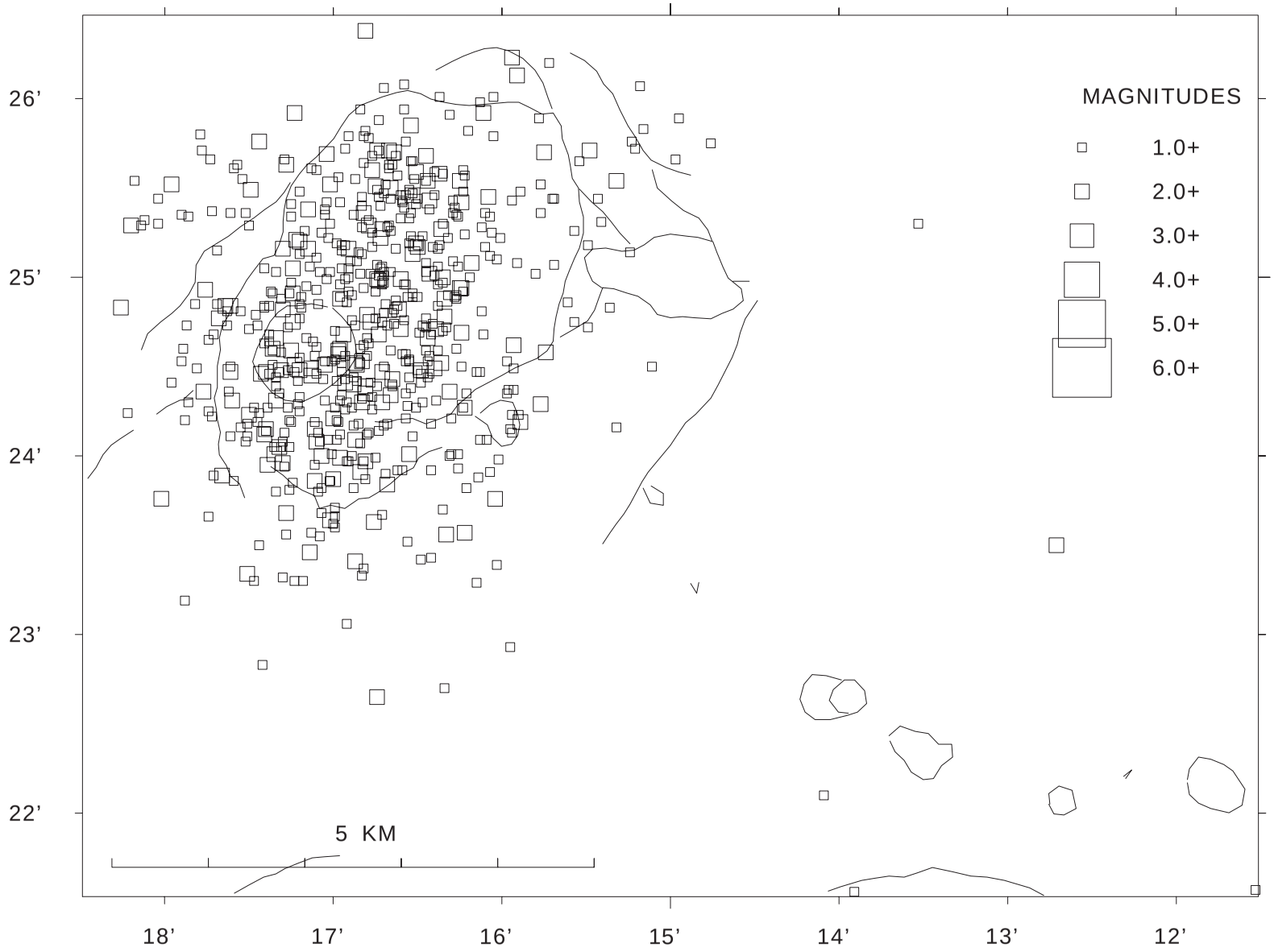

Figure 18. 2003 earthquake locations, Kilauea summit, deep (13.1–60.0 km depth), M>=1.0.

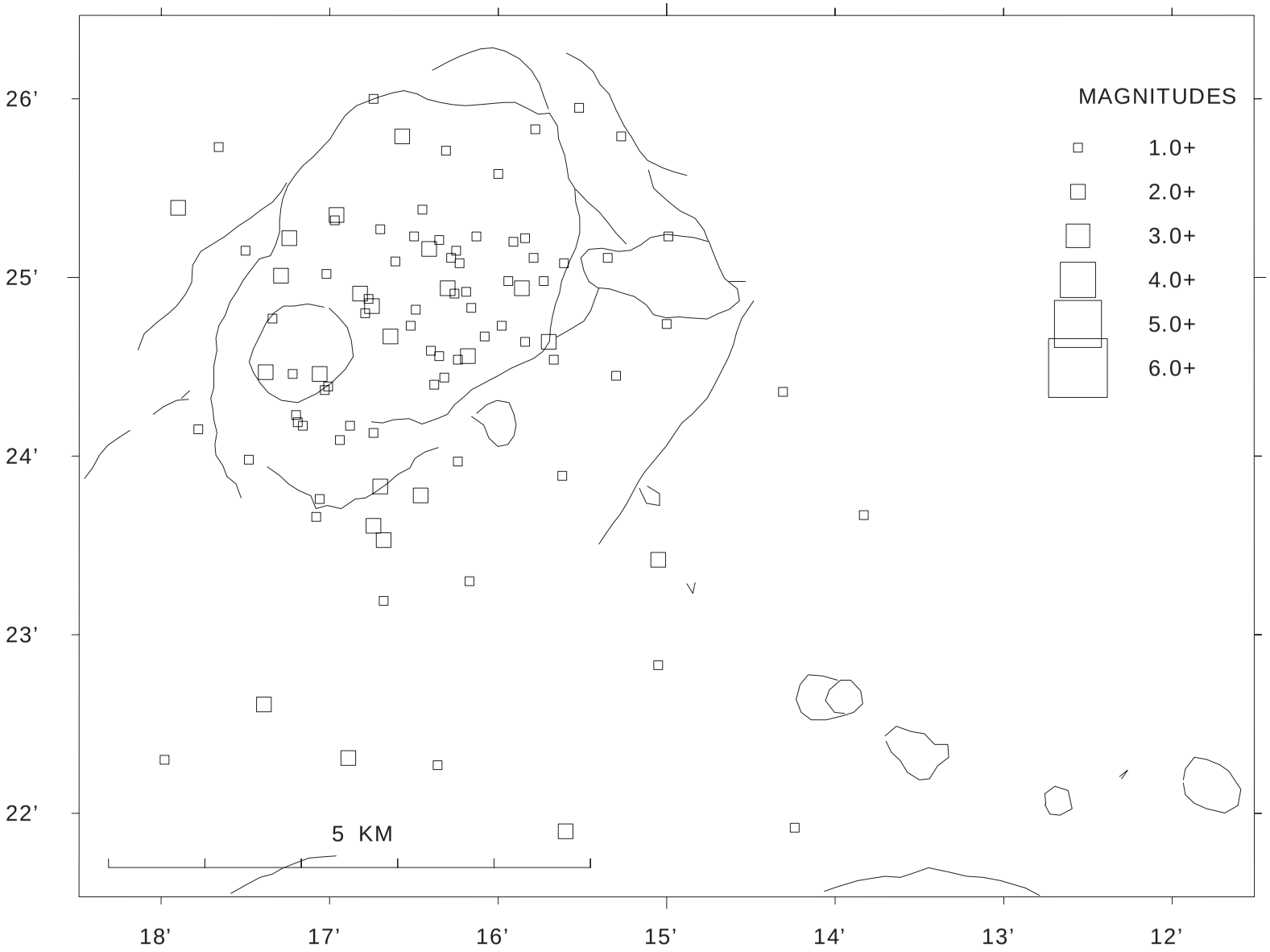

Figure 19. 2003 earthquake locations, Kilauea south flank, shallow (0–5.0 km depth), M>=2.0.

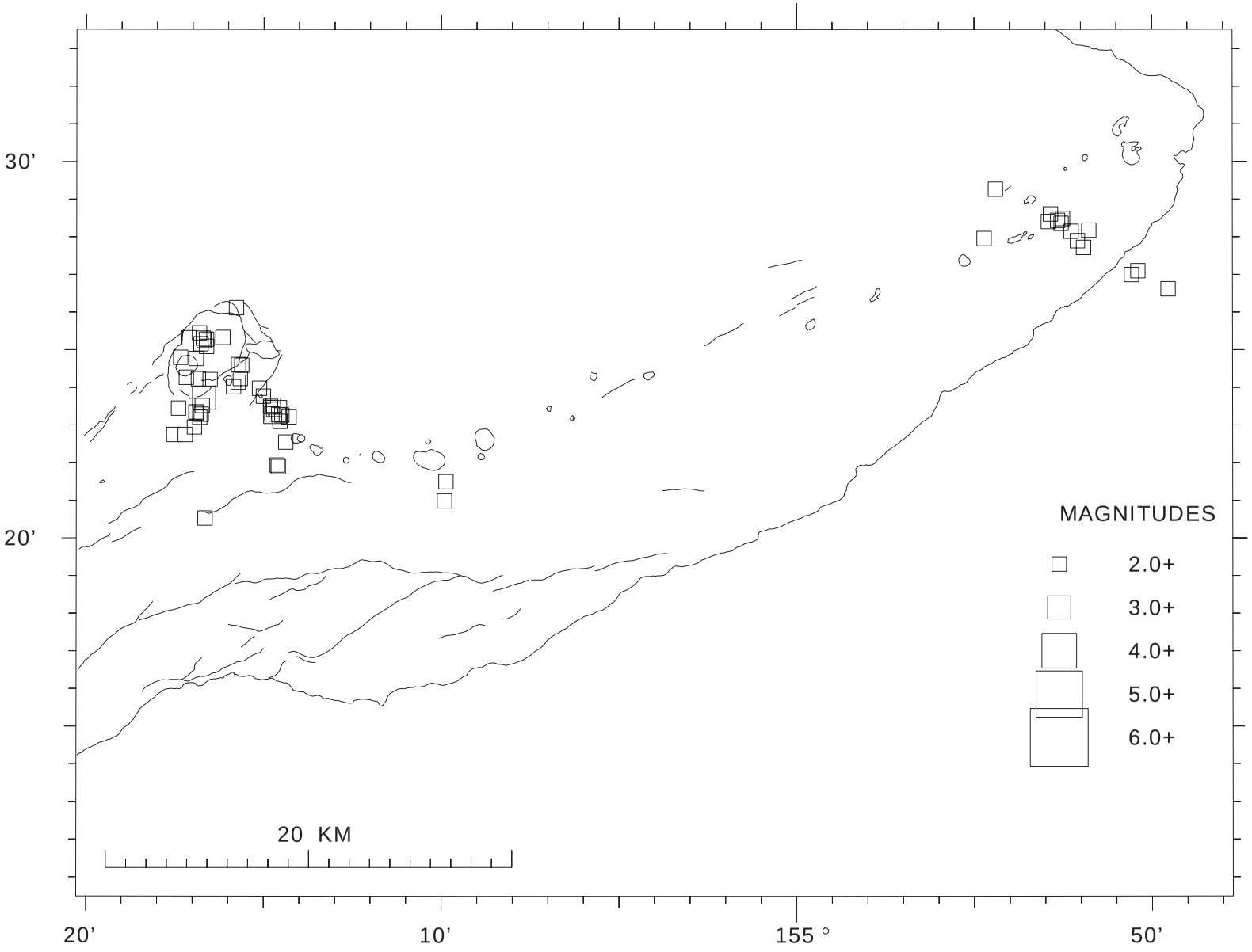

Figure 20. 2003 earthquake locations, Kilauea south flank, intermediate (5.1–13.0 km depth), M>=2.0.

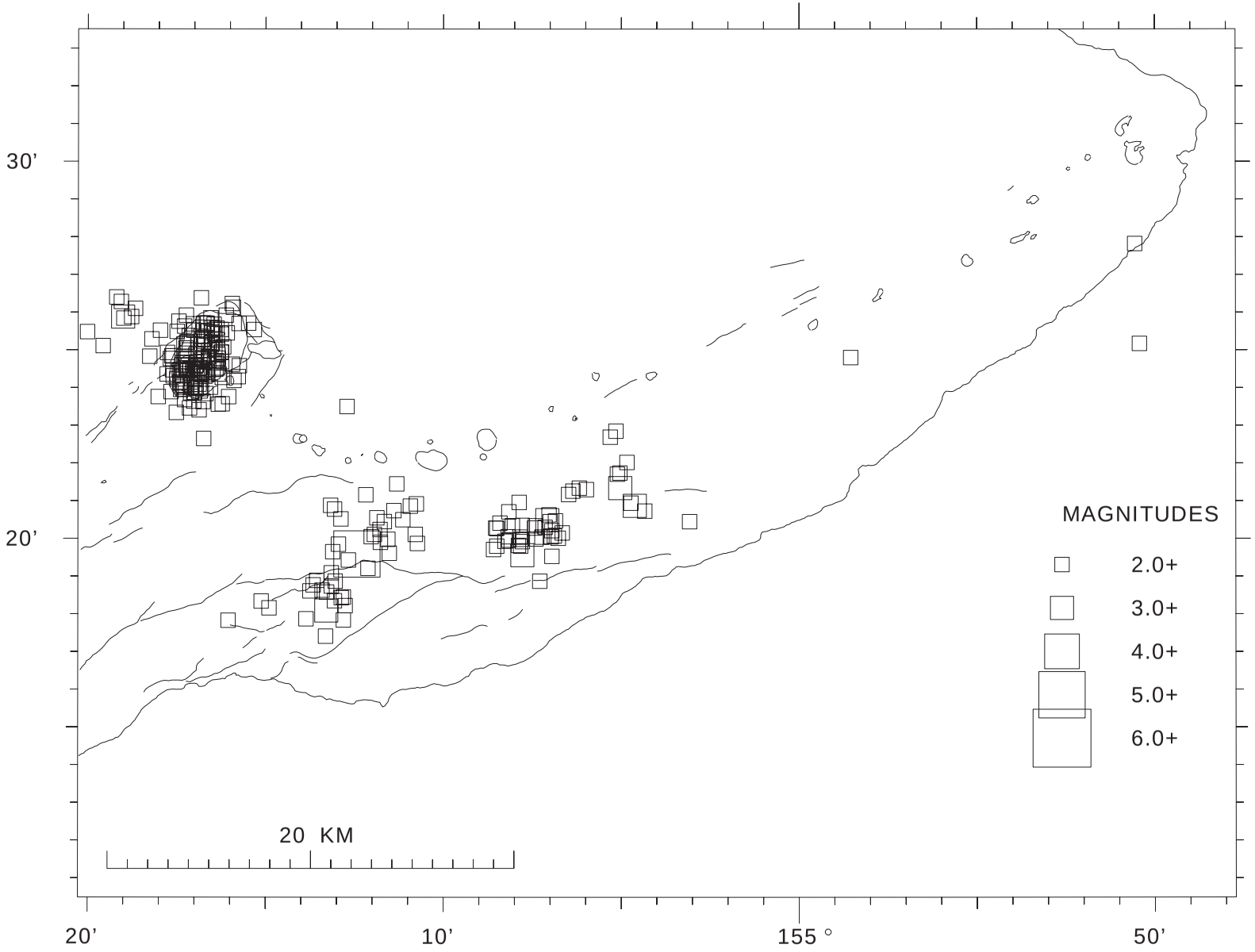

Figure 21. 2003 earthquake locations, Kilauea south flank, deep (13.1–60.0 km depth), M>=2.0.

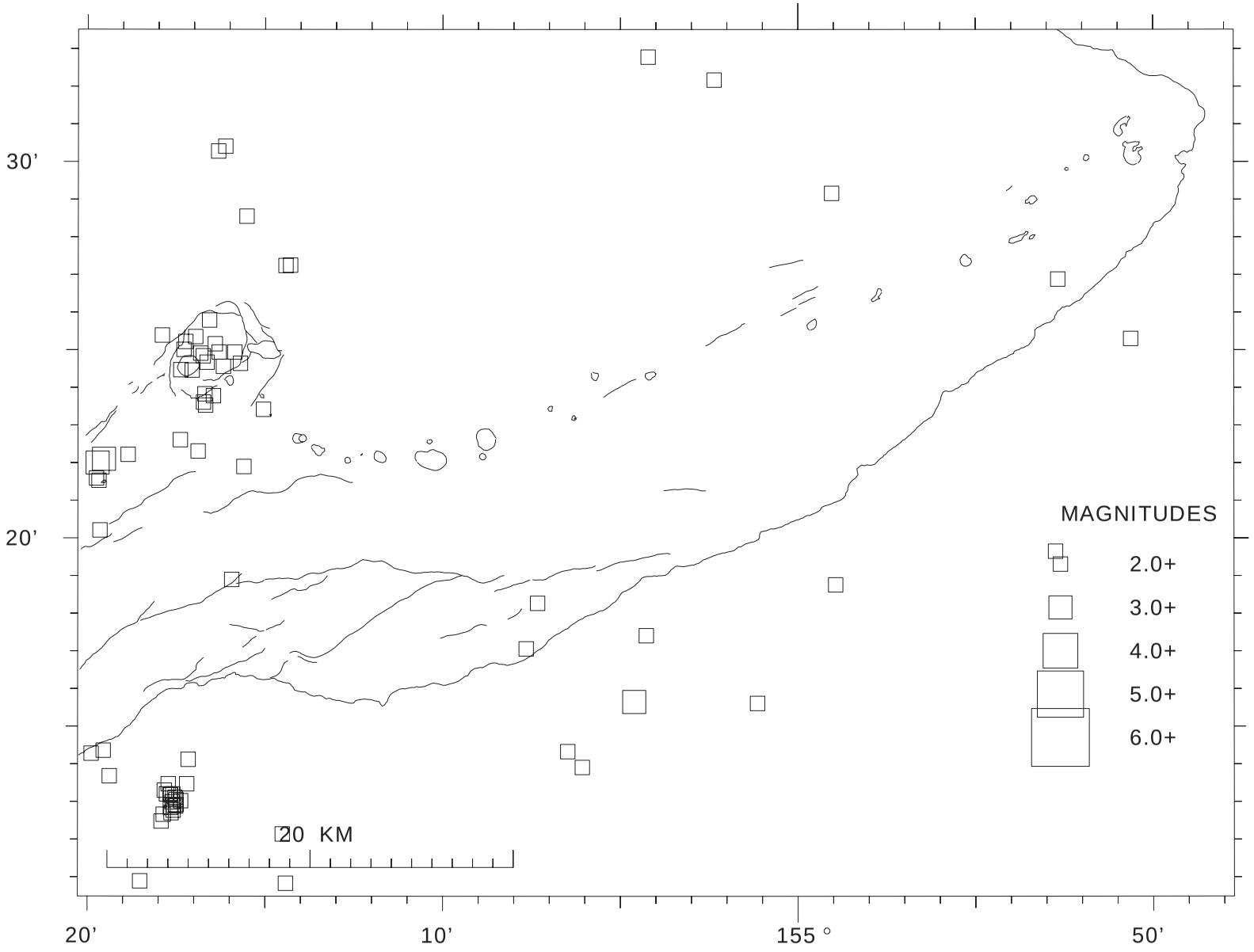

Figure 22. 2003 earthquake locations, Mauna Loa summit, shallow (0–5.0 km depth), M>=2.0.

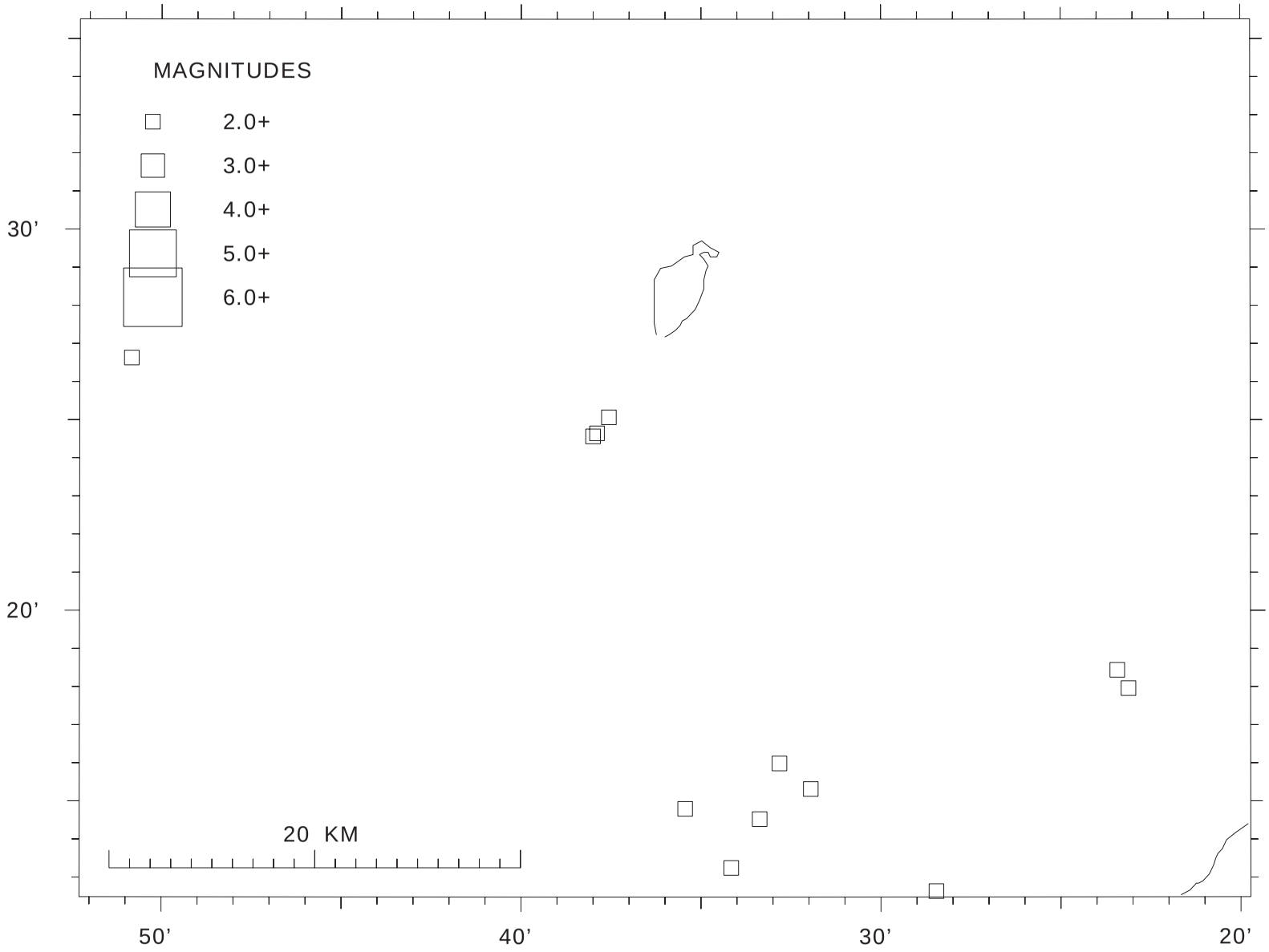

Figure 23. 2003 earthquake locations, Mauna Loa summit, intermediate (5.1–13.0 km depth), M>=2.0.

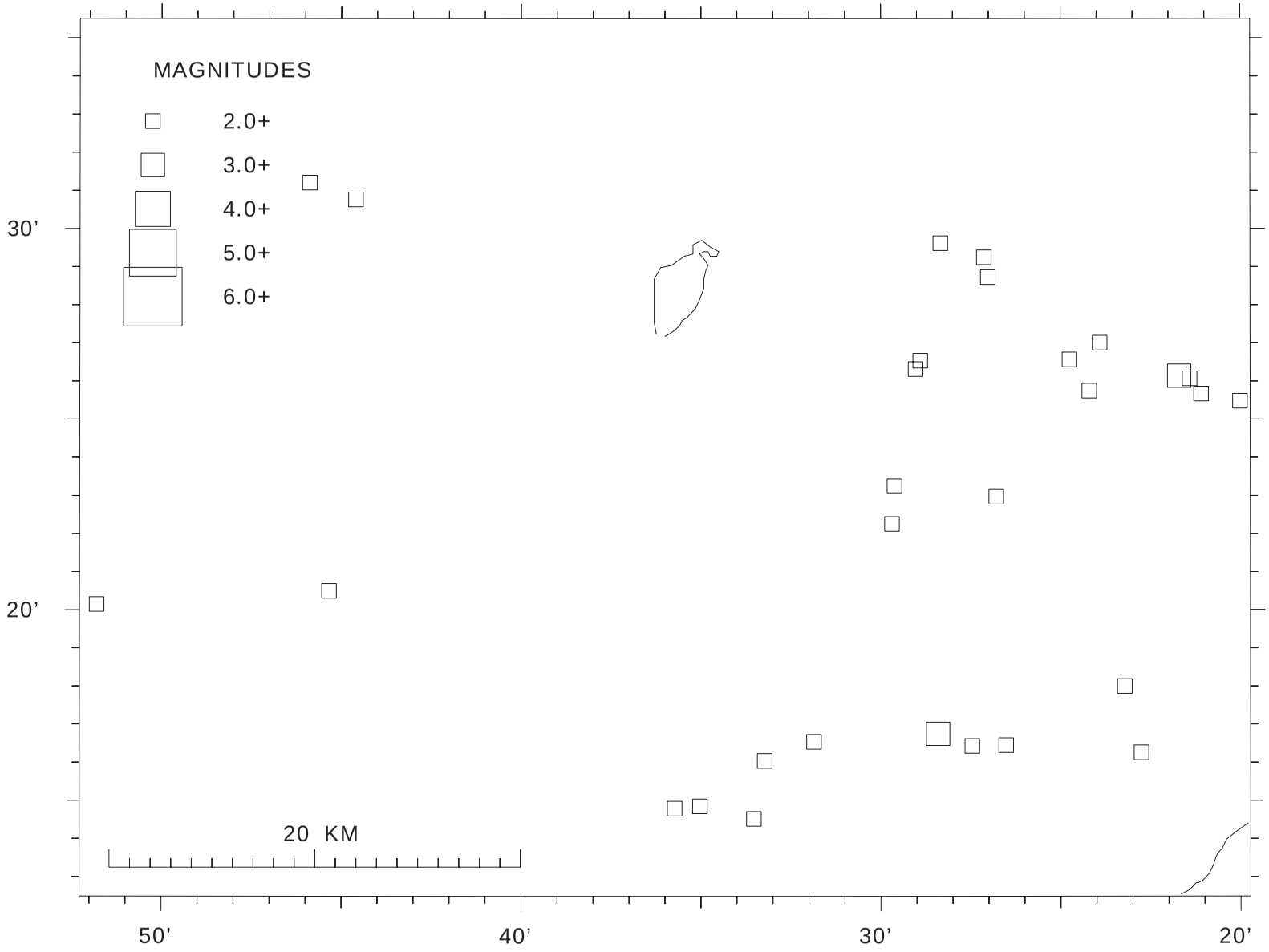

Figure 24. 2003 earthquake locations, Mauna Loa summit, deep (13.1–60.0 km depth), M>=2.0.

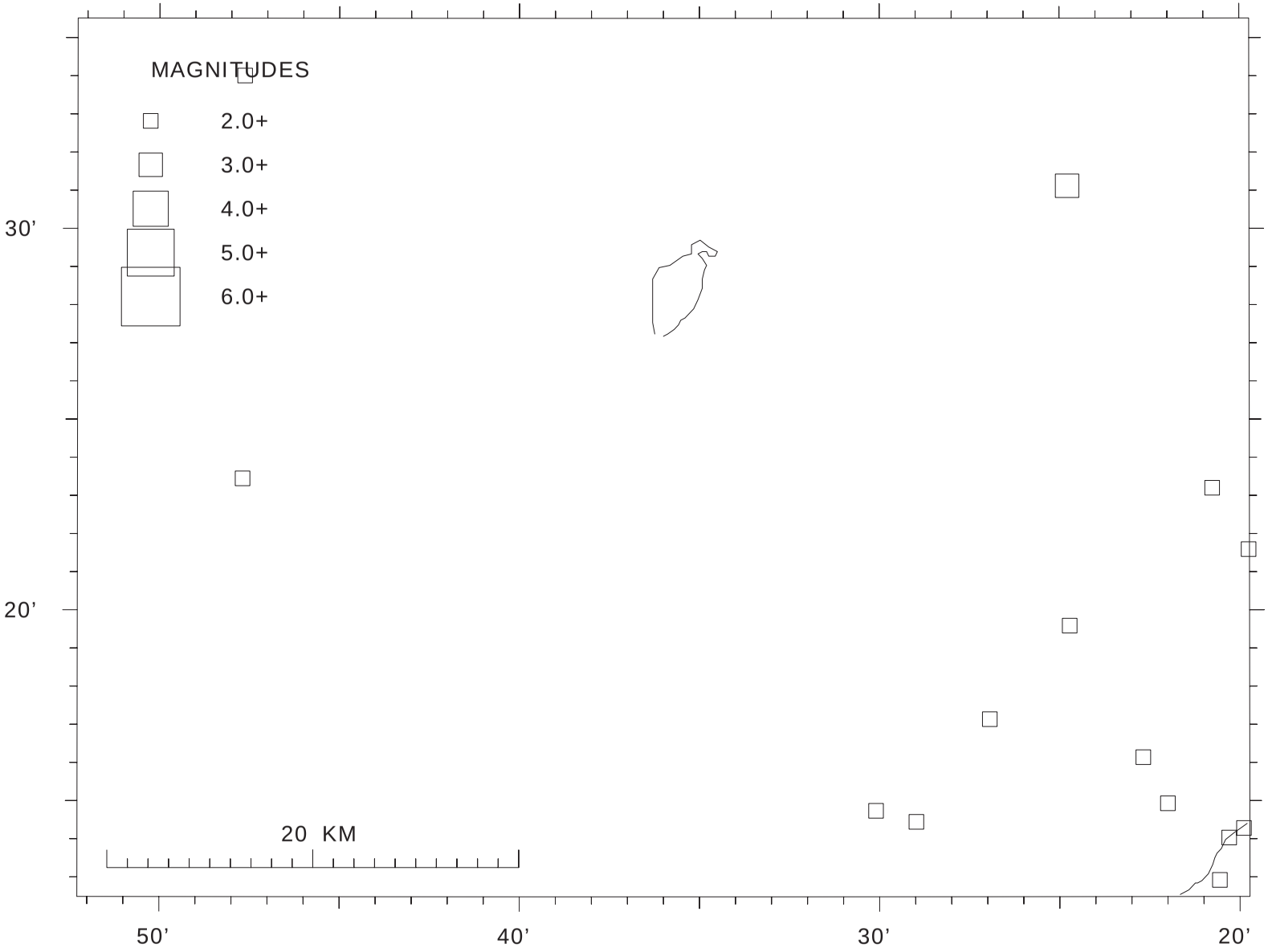

Table 4 is a chronological list of selected events successfully located during 2003. For each event, the following data are presented:

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

Table 4.

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JAN	1	0056	3.48	19	28.76	155	49.73	10.94	35	.17	.9	.5	KON		1.9X	189	7
2003	JAN	1	0431	21.96	19	25.43	155	28.69	10.25	42	.10	.3	.5	KAO		2.0X	34	6
2003	JAN	1	0546	44.58	19	19.24	155	8.56	6.15	38	.13	.6	.8	SF4		1.5X	217	7
2003	JAN	1	0716	6.81	19	18.08	155	14.97	8.23	40	.12	.4	.7	SF1		1.6X	167	8
2003	JAN	1	0846	5.32	19	29.82	155	53.44	9.77	20	.13	1.2	.8	KON		1.5X	274	13
2003	JAN	1	1506	2.64	19	1.78	155	26.64	38.30	36	.08	.8	1.2	DLS		1.8X	210	14
2003	JAN	1	1530	56.79	19	19.47	155	21.76	29.25	35	.09	.7	.9	DEP		1.6X	130	3
2003	JAN	1	1652	7.86	19	9.72	155	34.93	2.37	30	.13	.4	.7	LSW		1.5X	115	12
2003	JAN	1	1846	23.59	19	5.15	155	24.57	33.24	19	.12	1.7	1.6	LOI		1.1X	244	10
2003	JAN	1	2255	12.10	19	24.59	155	16.41	1.39	16	.10	.3	.2	SNC		1.5X	138	1
2003	JAN	2	1058	28.52	19	24.60	155	17.12	1.60	16	.09	.3	.2	SNC		1.6X	69	1
2003	JAN	2	1927	58.81	19	20.66	155	4.85	6.30	24	.11	1.1	.8	SF5		1.5X	262	7
2003	JAN	3	0316	45.66	19	15.08	156	27.39	39.75	13	.09	2.8	7.0	DIS		2.1X	321	73
2003	JAN	3	0558	27.24	19	32.92	155	54.77	28.17	30	.10	.9	1.3	KON		2.1X	226	16
2003	JAN	3	0606	32.23	19	15.47	156	20.29	5.11	26	.14	2.2	2.5	DIS		1.9X	278	61
2003	JAN	3	0923	43.12	19	35.84	156	28.43	28.18	26	.10	1.8	4.3	DIS		2.3X	306	67
2003	JAN	3	1333	19.47	19	25.55	155	17.54	10.29	16	.11	.8	1.1	INT	L	1.8X	86	0
2003	JAN	3	1401	28.13	19	13.37	155	32.92	1.04	32	.13	.3	.4	LSW		1.9X	78	11
2003	JAN	3	1655	58.98	19	18.43	155	11.83	4.38	30	.10	.6	3.3	SSF		1.3X	227	8
2003	JAN	3	2020	10.69	19	24.69	155	38.63	3.30	26	.10	.4	.4	MLO		1.8X	108	2
2003	JAN	3	2159	41.12	19	34.32	156	45.18	26.98	23	.12	1.9	6.8	DIS		2.1X	305	104
2003	JAN	3	2343	24.57	19	20.39	155	11.48	8.74	37	.12	.7	.5	SF3		1.7X	202	5
2003	JAN	3	2349	50.04	19	20.01	155	9.62	7.23	32	.13	.8	.6	SF3		1.4X	208	5
2003	JAN	4	0626	0.91	19	25.04	155	39.01	3.11	20	.10	.5	.4	MLO		1.5X	191	2
2003	JAN	4	1143	52.84	19	18.05	155	5.72	3.70	28	.08	1.4	3.1	SSF		1.8X	233	10
2003	JAN	4	1328	52.06	19	4.75	155	40.15	24.95	28	.09	.7	1.6	DLS		2.1X	129	11
2003	JAN	4	1603	29.54	19	13.91	155	6.07	41.33	26	.10	1.6	1.4	DEP		2.0X	251	18
2003	JAN	4	1653	6.94	19	36.20	155	55.75	33.15	13	.08	2.5	1.3	KON		1.8X	315	20
2003	JAN	5	0814	14.32	19	39.44	155	8.92	10.93	17	.09	.8	4.3	HIL		1.4X	167	14
2003	JAN	5	1001	41.55	19	32.90	155	53.64	9.24	19	.14	1.0	.8	KON		1.3X	218	14
2003	JAN	5	1610	4.16	19	16.39	155	28.50	6.80	39	.12	.4	1.1	LSW		1.8X	105	11
2003	JAN	5	1709	23.46	19	20.92	155	10.76	7.18	44	.13	.5	.5	SF3		2.0X	166	4
2003	JAN	5	2158	56.07	19	18.11	155	7.80	2.22	35	.11	1.1	1.0	SSF		1.4X	227	10
2003	JAN	6	0056	32.70	19	25.32	155	15.81	1.65	18	.10	.3	.4	SNC		1.3X	122	2
2003	JAN	6	0201	34.17	19	15.49	155	23.51	12.19	30	.09	.4	.8	SWR		1.5X	153	9
2003	JAN	6	0521	25.63	19	22.83	155	14.67	2.07	16	.09	.3	.4	SEC		1.5X	153	2
2003	JAN	6	1200	4.73	19	18.88	155	11.70	3.33	20	.10	1.2	2.5	SSF		1.6X	237	7
2003	JAN	6	1251	48.07	19	47.14	155	35.07	16.61	23	.13	.8	1.7	KEA		1.7X	177	13
2003	JAN	6	1257	2.04	18	50.68	155	9.84	8.27	43	.19	2.0	2.8	LOI	#	2.9X	270	56
2003	JAN	6	1637	43.47	19	55.56	156	21.12	29.69	40	.10	1.4	2.6	DIS		4.0X	221	46
2003	JAN	6	2152	1.18	19	57.81	155	22.03	29.88	18	.07	.8	.8	KEA		1.5X	250	9
2003	JAN	6	2203	42.85	19	20.61	155	13.87	7.80	34	.13	.4	.4	SF2		1.5X	166	4
2003	JAN	6	2300	37.88	19	24.18	155	16.44	1.61	17	.09	.3	.3	SEC		1.2X	78	1
2003	JAN	7	0047	26.81	19	22.90	155	14.29	2.00	20	.10	.3	.3	SEC		1.9X	149	2
2003	JAN	7	0237	3.85	19	26.78	155	29.98	11.73	21	.13	.5	1.1	KAO		1.2X	85	6
2003	JAN	7	0303	20.86	19	15.62	156	25.06	21.53	23	.14	1.4	10.8	DIS		1.5X	307	70
2003	JAN	7	1021	41.53	19	13.43	155	29.06	35.41	23	.08	.8	1.4	DLS		1.2X	99	8
2003	JAN	7	1603	15.47	19	25.49	155	28.00	9.83	24	.11	.4	.8	KAO		1.3X	78	6
2003	JAN	7	2140	32.92	19	15.11	155	25.14	6.08	22	.12	.5	1.3	LSW		1.3X	149	10
2003	JAN	8	0251	35.22	19	14.65	155	24.41	6.29	29	.12	.5	1.4	SWR		1.3X	167	10
2003	JAN	8	0332	46.04	20	22.30	156	34.72	6.84	25	.15	9.2	11.6	DIS	-	2.2X	319	88
2003	JAN	8	0704	13.01	19	24.32	155	28.06	8.51	40	.12	.3	.8	KAO		1.9X	51	3
2003	JAN	8	1710	38.63	19	19.06	155	8.82	3.00	29	.14	.6	1.1	SSF		1.5X	186	7
2003	JAN	8	2110	31.46	19	17.88	155	30.33	0.77	28	.10	.3	.4	LSW		1.2X	93	10
2003	JAN	8	2227	20.50	19	20.36	155	2.81	7.36	29	.15	.9	.7	SF5		1.1X	231	11
2003	JAN	8	2312	41.30	19	34.08	156	0.83	24.42	34	.12	.9	1.9	KON		1.7X	231	23
2003	JAN	9	0417	44.15	19	23.76	154	50.37	35.53	37	.13	1.1	1.0	LER		1.7X	294	15
2003	JAN	9	0823	27.36	19	25.14	155	15.95	0.66	18	.14	.2	.4	SNC		1.2X	120	2
2003	JAN	9	1439	45.90	19	32.36	155	55.92	12.48	38	.09	.8	.5	KON		2.3X	218	19
2003	JAN	9	1540	52.67	19	25.54	155	29.75	10.44	35	.09	.3	.8	KAO		1.5X	47	7
2003	JAN	9	2323	57.53	19	10.70	155	34.87	6.61	32	.15	.4	1.3	LSW		1.4X	104	12
2003	JAN	10	0139	13.51	19	32.34	155	37.92	11.51	29	.11	.6	.7	MLO		1.5X	167	5
2003	JAN	10	0209	13.50	19	25.18	155	29.20	8.93	29	.09	.4	.8	KAO		1.3X	75	6
2003	JAN	10	0420	35.44	19	22.97	155	14.56	3.53	24	.08	.4	.3	SEC		1.8X	120	3
2003	JAN	10	0445	21.24	19	17.22	155	14.19	1.12	26	.10	1.0	.5	SSF		1.1X	235	10
2003	JAN	10	0742	17.20	19	17.85	155	14.39	3.88	32	.12	.6	2.2	SSF		1.1X	188	9
2003	JAN	10	1644	17.05	19	11.72	155	29.50	36.95	25	.08	.7	1.4	DLS		1.4X	92	5
2003	JAN	10	2245	52.88	20	13.77	156	4.00	27.52	41	.11	.9	1.7	KOH		2.8X	305	32
2003	JAN	11	0254	14.80	19	21.77	155	4.77	6.21	26	.13	.8	1.1	SF5		1.5X	206	6
2003	JAN	11	0446	50.47	19	17.43	155	12.66	2.01	28	.07	.9	.8	SSF		1.4X	227	10
2003	JAN	11	0528	59.21	19	26.41	155	29.01	9.10	44	.11	.3	.6	KAO		1.6X	41	7
2003	JAN	11	1423	18.48	19	17.78	155	13.01	0.60	34	.11	.6	.3	SSF		1.3X	179	9
2003	JAN	11	1809	21.99	19	14.20	155	32.81	0.14	38	.14	.4	.2	LSW		1.9X	70	12
2003	JAN	12	0359	1.18	19	19.73	155	7.24	7.55	40	.13	.9	.6	SF4		1.9X	187	7
2003	JAN	12	0829	48.25	19	11.88	155	30.70	36.45	53	.09	.5	.8	DLS	F	2.3X	85	7
2003	JAN	12	1128	3.21	19	25.95	155	15.52	15.26	32	.11	.6	.4	DEP		1.6X	54	3
2003	JAN	12	1223	52.65	19	11.39	155	42.62	0.18	14	.13	.6	.4	LSW		1.3X	115	7
2003	JAN	12	1431	37.00	19	26.57	155	24.75	10.18	17	.10	.5	1.1	KAO		2.1X	83	6
2003	JAN	12	1515	58.25	19	0.65	155	28.59	38.89	37	.07	.8	1.2	DLS		2.5X	213	16
2003	JAN	12	1709	21.79	19	21.44	155	14.61	0.82	14	.08	.4	.5	KOA		1.5X	190	3
2003	JAN	12	1709	59.49	19	21.34	155	14.53	0.72	14	.07	.3	.5	KOA		1.5X	192	3
2003	JAN	12	1710	9.60	19	21.94	155	14.62	1.75	31	.11	.4	.3	KOA		2.5X	181	2
2003	JAN	12	1842	0.87	19	22.83	155	14.40	3.44	15	.07	.4	.4	SEC		1.3X	154	2
2003	JAN	12	2006	29.75	19	39.05	155	8.72	12.19	41	.13	.4	.5	HIL		2.4X	103	13
2003	JAN	12	2024	2.71	18	50.77	155	17.01	12.23	40	.12	1.4	1.1	LOI		3.4X	265	39
2003	JAN	12	2039	50.72	19	17.60	156	16.51	24.21	16	.05	3.2	7.1	KON		1.6X	283	56
2003	JAN	12	2103	35.77	18	49.04	155	15.15	15.38	16	.12	6.4	12.4	LOI	-	2.1X	307	44
2003	JAN	12	2131	25.81	18	54.20	155	18.79	17.47	18	.09	2.8	12.2	LOI	-	1.9X	253	32
2003	JAN	12	2134	3.70	18	52.40	155	16.21	7.00	24	.12	1.2	.9	LOI		2.3X	261	38
2003	JAN	12	2206	43.19	18	49.44	155	16.65	12.22	21	.11	1.3	1.4	LOI		2.3X	269	42

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	JAN	12	2208	27.86	18	48.26	155	14.28	14.62	10	.12	7.0	9.4	LOI	-		2.0X	302	46
2003	JAN	12	2242	42.27	18	50.13	155	15.88	11.22	28	.12	1.7	1.2	LOI			2.5X	267	41
2003	JAN	12	2244	34.68	18	49.46	155	15.77	10.40	16	.09	1.8	1.1	LOI			2.0X	284	43
2003	JAN	12	2246	30.47	18	52.90	155	16.26	9.33	22	.14	2.6	1.4	LOI			2.0X	258	37
2003	JAN	12	2251	50.72	18	50.63	155	17.15	14.21	26	.10	2.8	5.5	LOI			2.6X	265	40
2003	JAN	12	2308	23.73	18	53.13	155	14.25	11.84	19	.12	2.5	1.3	LOI			2.1X	260	39
2003	JAN	12	2317	45.26	18	55.05	155	18.31	10.00	19	.10	2.2	1.3	LOI			2.0X	250	39
2003	JAN	12	2332	16.93	18	48.89	155	16.53	11.67	30	.12	1.6	1.1	LOI			2.6X	271	43
2003	JAN	12	2341	44.74	18	54.67	155	17.98	10.22	20	.09	2.3	1.4	LOI			2.2X	252	40
2003	JAN	13	0030	13.79	18	53.06	155	18.31	12.57	24	.09	2.4	1.3	LOI			2.4U	256	35
2003	JAN	13	0359	13.80	19	56.41	155	31.92	42.02	20	.09	.9	1.2	KEA			1.7X	228	16
2003	JAN	13	0417	37.41	18	51.83	155	17.29	15.05	22	.11	3.0	14.9	LOI	-		2.4X	262	38
2003	JAN	13	0437	19.08	18	47.66	155	16.06	11.60	48	.11	1.2	1.4	LOI	F		3.0X	274	45
2003	JAN	13	0535	28.39	18	49.15	155	15.57	10.04	14	.17	2.2	1.5	LOI			1.9X	293	43
2003	JAN	13	0608	16.25	18	47.11	155	15.28	15.89	11	.12	4.8	12.3	LOI	-		1.9X	297	47
2003	JAN	13	0622	6.53	18	49.62	155	16.59	12.22	33	.11	1.2	1.4	LOI			2.7X	268	42
2003	JAN	13	0652	47.01	19	20.97	155	15.31	1.25	18	.09	.3	.5	KOA			1.6X	193	3
2003	JAN	13	0909	47.97	18	52.31	155	15.62	7.91	30	.13	1.3	.9	LOI			2.3X	260	45
2003	JAN	13	0952	45.78	19	21.90	155	14.59	1.17	31	.10	.2	.3	KOA			2.3X	159	2
2003	JAN	13	0955	20.41	19	22.02	155	14.66	2.05	10	.04	.4	.5	KOA			1.5X	155	2
2003	JAN	13	1050	36.11	18	54.88	155	15.42	12.81	16	.09	2.4	1.1	LOI			2.0X	253	35
2003	JAN	13	1125	52.42	18	52.72	155	12.56	7.81	19	.09	1.6	.9	LOI			2.1X	276	41
2003	JAN	13	1319	26.65	19	18.94	155	7.30	4.71	21	.14	1.3	5.1	SSF			1.1X	223	8
2003	JAN	13	1319	40.46	19	19.52	155	19.05	5.18	20	.11	.6	1.4	SWR			1.5X	207	3
2003	JAN	13	1350	16.66	19	19.40	155	23.31	31.64	24	.11	.7	1.5	DEP			1.6X	122	1
2003	JAN	13	1712	56.63	19	27.10	154	50.39	4.01	33	.12	.9	.9	SLE	F		2.5X	279	15
2003	JAN	13	1755	57.26	19	20.94	155	4.73	8.30	41	.11	.7	.5	SF5	F		2.8X	184	7
2003	JAN	13	2130	26.97	19	15.69	156	21.27	7.01	19	.09	6.9	8.7	DIS	-		1.4X	307	68
2003	JAN	14	0121	17.59	19	22.79	155	14.54	2.79	17	.08	.4	.3	SEC			1.4X	156	2
2003	JAN	14	0222	7.84	18	51.05	155	13.73	10.91	12	.10	2.0	1.3	LOI			1.8X	287	42
2003	JAN	14	0247	26.46	19	16.63	155	13.92	5.34	17	.12	2.1	2.7	SF2			1.3X	251	11
2003	JAN	14	0249	25.11	19	22.86	155	14.56	2.46	14	.08	.3	.4	SEC			1.2X	152	2
2003	JAN	14	0250	2.85	19	22.82	155	14.59	2.91	13	.02	.3	.4	SEC			1.1X	154	2
2003	JAN	14	0549	49.74	18	52.66	155	13.59	10.91	15	.13	2.3	1.6	LOI			1.7X	261	40
2003	JAN	14	0740	9.52	19	56.57	155	31.53	34.05	31	.11	.9	1.2	KEA			2.2X	230	17
2003	JAN	14	1334	37.63	18	51.99	155	14.07	11.22	15	.08	2.0	1.1	LOI			2.0X	263	40
2003	JAN	14	1552	30.00	18	53.30	155	13.76	9.29	13	.06	2.8	1.3	LOI			2.0X	259	39
2003	JAN	14	1619	37.23	19	17.79	155	13.23	2.43	20	.13	.9	1.8	SSF			1.0X	236	8
2003	JAN	14	1626	4.51	19	59.10	155	28.89	29.84	17	.11	.9	1.8	KEA			1.5X	185	18
2003	JAN	14	1642	21.74	19	19.87	155	12.65	6.72	22	.12	1.1	.8	SF2			1.2X	218	5
2003	JAN	14	1920	45.80	19	24.17	155	17.16	14.38	19	.06	.7	.4	DEP			1.2X	97	1
2003	JAN	14	2030	49.62	18	49.80	154	55.04	36.92	20	.08	2.5	4.1	DIS			2.0X	288	66
2003	JAN	15	0211	51.97	18	49.42	155	16.76	11.58	37	.12	1.1	1.1	LOI			2.3X	269	42
2003	JAN	15	0409	49.22	19	42.43	156	2.49	17.02	20	.18	2.0	18.7	HUA	-		1.5X	308	36
2003	JAN	15	0528	10.89	18	49.80	155	16.21	11.33	19	.09	1.5	1.0	LOI			2.2X	267	42

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	JAN	15	0609	51.02	18	49.19	155	16.65	12.21	34	.09	1.2	1.7	LOI			2.7X	269	42
2003	JAN	15	2158	25.50	18	48.83	155	13.60	13.11	17	.13	7.6	10.8	LOI	-		1.9X	318	46
2003	JAN	15	2212	26.13	19	23.66	155	3.08	3.78	17	.13	.9	2.4	SME			1.6X	190	8
2003	JAN	16	0322	59.48	19	21.47	155	5.06	6.52	25	.12	.8	.9	SF5			1.6X	208	6
2003	JAN	16	0337	15.85	19	17.87	155	13.86	9.68	42	.11	.6	.4	SF2			2.6X	175	8
2003	JAN	16	1146	27.59	18	52.55	155	12.16	9.11	24	.11	1.2	1.0	LOI			1.9X	277	42
2003	JAN	16	1311	9.89	19	21.86	155	30.16	10.22	38	.10	.5	.8	KAO			1.8X	164	5
2003	JAN	16	1810	25.68	19	20.27	155	8.56	7.79	33	.11	.5	.6	SF4			1.6X	178	5
2003	JAN	16	1851	16.45	19	29.63	155	22.22	13.20	39	.10	.5	.4	DML			1.7X	98	2
2003	JAN	16	2353	8.71	19	22.25	155	1.80	7.87	24	.15	.9	1.0	SF5			1.3X	220	8
2003	JAN	17	0057	48.80	20	12.87	155	30.89	32.24	46	.10	.9	1.5	KEA			2.4X	247	29
2003	JAN	17	0146	33.53	19	23.49	155	2.38	7.73	29	.14	.8	.7	SF5			1.4X	197	7
2003	JAN	17	0245	30.88	19	27.25	155	14.29	32.34	51	.11	.5	.7	DEP			2.5X	60	4
2003	JAN	17	0459	1.92	19	22.39	155	29.93	8.22	37	.09	.3	.8	KAO			1.4X	62	4
2003	JAN	17	0852	46.64	19	15.93	155	27.85	0.80	29	.16	.4	.5	LSW			1.4X	114	11
2003	JAN	17	1233	59.91	19	59.08	155	34.46	21.56	34	.11	.7	1.4	KOH			2.2X	166	16
2003	JAN	17	1309	16.52	19	11.60	155	29.75	33.43	34	.08	.6	1.0	DLS			1.9X	97	5
2003	JAN	17	1802	53.41	19	14.80	155	35.44	1.29	35	.15	.4	.6	LSW			2.3X	124	20
2003	JAN	17	1938	36.78	19	19.47	155	12.81	6.16	27	.12	.8	.7	SF2			1.4X	224	6
2003	JAN	17	1943	17.45	19	24.59	155	17.50	0.19	10	.12	.3	.6	SNC	L		1.6X	76	1
2003	JAN	17	2004	28.48	19	22.02	155	4.84	8.24	36	.11	.8	.5	SF5			2.1X	180	5
2003	JAN	17	2345	53.71	19	21.31	155	4.23	5.32	24	.15	1.1	1.9	SF5			1.4X	214	7
2003	JAN	18	0120	38.22	19	51.67	155	35.51	22.99	21	.08	1.0	1.3	KEA			1.7X	173	7
2003	JAN	18	0317	48.63	19	15.99	155	32.82	0.27	37	.15	.4	.3	LSW			2.1X	72	15
2003	JAN	18	0414	32.25	19	23.25	155	29.62	10.27	43	.11	.3	.5	KAO			2.3X	57	4
2003	JAN	18	0458	1.53	19	16.49	155	25.92	9.19	15	.07	.6	1.0	LSW			1.2X	156	8
2003	JAN	18	1429	44.14	19	21.97	155	26.33	11.35	25	.11	.6	.9	KAO			1.5X	115	2
2003	JAN	18	1549	2.20	19	27.30	155	28.55	10.74	18	.10	.6	1.5	KAO			1.3X	72	9
2003	JAN	18	1802	32.48	19	21.24	154	59.62	7.80	19	.14	2.3	.9	LER			1.7X	256	7
2003	JAN	18	1950	2.84	19	19.98	155	10.93	8.52	17	.06	1.4	.7	SF3			1.4X	206	5
2003	JAN	18	2230	37.52	19	30.40	155	43.66	11.57	15	.09	.8	1.4	KON			1.7X	151	4
2003	JAN	19	0056	5.69	19	21.45	155	11.31	8.93	40	.12	.6	.4	SF3			2.6X	161	3
2003	JAN	19	0120	51.10	19	21.57	155	11.53	7.87	26	.13	1.1	.6	SF3			1.5X	191	3
2003	JAN	19	0508	30.44	18	33.43	156	35.20	32.34	15	.06	1.9	3.5	DIS			2.4X	336	107
2003	JAN	19	0541	43.39	19	23.67	155	13.83	31.47	21	.09	1.0	1.3	DEP			1.5X	96	2
2003	JAN	19	0732	47.82	20	10.13	155	37.74	31.71	17	.10	1.1	1.9	KOH			1.9X	297	34
2003	JAN	19	0900	36.99	19	3.21	155	23.30	36.03	24	.07	1.0	1.5	LOI			1.5X	210	14
2003	JAN	19	0900	52.88	19	3.32	155	23.33	36.13	30	.07	.9	1.6	LOI			2.0X	209	14
2003	JAN	19	1427	11.28	19	12.29	155	21.98	42.53	26	.08	.8	1.1	DEP			1.4X	203	12
2003	JAN	19	1610	19.88	19	12.27	155	21.45	44.64	29	.08	.9	1.0	DEP			1.6X	197	12
2003	JAN	19	2015	53.62	19	23.35	155	16.91	2.93	29	.08	.3	.2	SSC			2.2X	109	0
2003	JAN	20	0349	31.13	19	12.74	155	32.93	0.72	37	.13	.5	.3	LSW			1.7X	84	11
2003	JAN	20	0454	0.79	19	24.45	155	16.96	1.34	17	.11	.3	.2	SSC			1.3X	80	1
2003	JAN	20	0758	15.96	19	24.18	155	15.86	2.95	20	.06	.2	.3	SEC			1.4X	83	1
2003	JAN	20	0929	40.49	19	20.49	155	12.50	8.40	39	.12	.5	.5	SF2			1.9X	164	4

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	JAN	20	1656	54.31	19	22.18	155	29.82	9.09	29	.10	.4	.8	KAO			1.4X	97	4
2003	JAN	20	2240	40.87	19	17.34	155	28.36	2.04	43	.14	.3	.6	LSW			1.9X	102	10
2003	JAN	21	0514	4.23	19	36.61	155	5.55	14.31	33	.11	.8	.8	HIL			2.0X	190	24
2003	JAN	21	1500	39.85	19	34.50	155	37.47	9.71	21	.12	.7	1.0	MLO			1.5X	193	6
2003	JAN	21	1658	14.39	19	24.96	155	16.46	1.54	14	.12	.4	.3	SNC			1.6X	105	1
2003	JAN	21	1714	58.02	19	24.72	155	16.33	7.58	23	.14	.6	.6	INT	L		1.8X	114	1
2003	JAN	21	1716	21.30	19	22.52	155	29.71	8.26	37	.10	.3	.7	KAO			1.7X	62	4
2003	JAN	21	1734	7.43	19	23.85	155	17.24	12.50	25	.13	.7	.6	INT	L		2.0X	89	1
2003	JAN	21	1740	29.43	19	25.39	155	15.88	0.17	12	.11	.3	.5	SNC			1.4X	198	2
2003	JAN	21	1800	20.59	19	25.46	155	14.95	0.26	19	.13	.3	.4	SNC	L		1.8X	155	4
2003	JAN	21	1834	37.99	19	24.91	155	16.82	15.69	20	.09	1.0	.6	DEP	L		2.0X	151	0
2003	JAN	21	1927	35.01	19	24.94	155	16.30	15.31	25	.11	.8	.4	DEP			2.1X	118	1
2003	JAN	21	1957	34.10	19	24.99	155	16.93	9.74	23	.09	.6	.6	INT	L		1.9X	154	0
2003	JAN	21	2041	33.74	19	24.82	155	16.64	8.94	23	.11	.7	.5	INT			1.6X	107	1
2003	JAN	21	2126	30.87	19	25.54	155	15.32	12.07	21	.13	.9	.9	INT			2.0X	149	3
2003	JAN	21	2205	59.33	19	24.86	155	15.61	9.37	15	.12	.9	1.0	INT	L		1.4X	206	4
2003	JAN	21	2253	10.51	19	22.65	155	10.84	2.74	19	.11	1.2	.4	SER			1.6X	180	1
2003	JAN	21	2306	41.92	19	19.78	155	11.55	5.27	32	.13	.6	1.5	SF3			1.4X	171	6
2003	JAN	21	2343	6.19	19	24.93	155	17.76	11.80	14	.11	1.8	1.0	INT			2.3X	84	1
2003	JAN	22	0141	32.22	19	24.27	155	17.39	11.53	25	.12	.7	.5	INT	L		1.8X	81	1
2003	JAN	22	0338	4.22	19	24.47	155	17.23	11.43	21	.12	.7	.6	INT	L		1.5X	71	1
2003	JAN	22	0504	16.73	19	24.91	155	17.26	5.93	27	.11	.4	.5	INT			1.8X	81	0
2003	JAN	22	0616	8.66	19	25.12	155	16.07	9.89	23	.14	.8	.6	INT			1.5X	124	2
2003	JAN	22	0721	41.57	19	54.84	155	17.63	30.07	41	.11	.8	1.0	KEA			2.2X	212	6
2003	JAN	22	0858	18.17	19	23.22	155	18.62	7.78	17	.14	.8	.8	INT	L		1.6X	136	2
2003	JAN	22	1213	4.97	19	12.64	155	28.46	2.31	42	.11	.3	.6	LSW			2.6X	103	6
2003	JAN	22	1302	23.30	19	7.56	155	28.26	12.36	26	.13	.8	.4	LSW			1.6X	271	4
2003	JAN	22	1650	7.28	19	23.75	155	30.20	10.26	27	.07	.4	.9	KAO			1.2X	86	5
2003	JAN	22	1935	46.98	18	20.38	155	33.22	6.44	17	.10	9.0	11.5	DIS	-		1.7X	340	72
2003	JAN	22	1952	27.72	19	2.83	155	13.74	32.07	38	.07	.8	1.4	LOI			2.2X	230	28
2003	JAN	22	2136	31.99	19	25.25	155	16.68	1.52	24	.09	.3	.2	SNC			2.1X	102	1
2003	JAN	22	2300	28.80	18	49.58	155	16.74	11.87	34	.13	1.1	1.3	LOI			2.5X	268	42
2003	JAN	23	0051	49.71	19	28.63	155	36.83	11.73	12	.09	.8	1.1	MLO	T			182	2
2003	JAN	23	0053	20.42	19	28.45	155	36.99	13.41	19	.09	.6	.7	DML			1.7X	100	2
2003	JAN	23	0155	16.92	19	23.35	155	14.68	4.43	39	.12	.3	.5	SEC	F		3.2X	100	3
2003	JAN	23	0316	42.47	19	25.32	155	17.10	1.34	24	.11	.3	.2	SNC			2.1X	93	1
2003	JAN	23	0644	52.75	19	2.90	155	13.63	31.73	38	.09	.9	1.5	LOI			2.1X	230	28
2003	JAN	23	0834	13.34	18	49.41	155	16.26	11.98	39	.12	1.2	1.5	LOI			2.5X	269	42
2003	JAN	23	1408	4.64	19	16.85	155	14.60	2.78	30	.12	.7	1.0	SSF			1.4X	195	8
2003	JAN	23	1536	0.92	19	19.39	155	4.30	6.30	36	.09	.6	.8	SF5			1.6X	198	9
2003	JAN	23	1632	22.18	19	7.38	155	24.17	44.48	24	.10	1.0	1.3	LOI			2.0X	208	8
2003	JAN	24	0208	0.18	19	24.02	155	15.85	3.06	29	.12	.3	.2	SEC			2.1X	79	1
2003	JAN	24	0341	0.24	19	28.19	155	37.60	11.48	14	.09	.8	.9	MLO			1.8X	103	3
2003	JAN	24	0456	30.07	19	23.53	155	14.73	3.69	32	.09	.3	.3	SEC	F		2.2X	105	2
2003	JAN	24	0739	11.88	19	32.98	155	37.81	13.87	21	.11	.8	.6	DML			1.3X	174	5

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	JAN	24	0748	49.27	19	26.09	155	22.25	10.35	18	.08	.5	1.0	KAO			1.2X	86	6
2003	JAN	24	1005	48.96	19	18.07	155	14.95	8.67	29	.11	.6	.9	SF1			1.5X	184	6
2003	JAN	24	1544	15.00	19	27.01	155	28.41	9.48	20	.08	.4	1.2	KAO			1.4X	74	8
2003	JAN	24	1652	36.03	19	18.54	155	8.93	3.07	28	.11	1.5	2.1	SSF			1.5X	263	8
2003	JAN	24	2140	3.39	19	23.05	155	3.00	4.69	27	.10	1.0	4.8	SME			1.4X	200	8
2003	JAN	24	2205	11.29	19	18.70	155	6.48	4.47	33	.10	.7	3.6	SSF			1.6X	227	9
2003	JAN	25	0434	23.96	19	14.97	155	19.95	8.70	29	.09	.5	1.0	SWR			1.2X	186	6
2003	JAN	25	0643	18.01	19	22.00	155	19.72	30.02	44	.12	.5	.8	DEP	F		3.3X	80	3
2003	JAN	25	0646	24.99	19	22.10	155	19.54	30.73	46	.11	.5	.7	DML	F		3.9U	83	3
2003	JAN	25	0712	53.65	19	22.31	155	16.89	26.39	35	.10	.8	.8	DEP			2.1X	116	2
2003	JAN	25	0807	5.75	19	21.61	155	19.45	29.35	47	.11	.5	.7	DEP			1.8X	47	4
2003	JAN	25	0836	58.67	19	21.12	155	19.49	28.29	25	.07	.8	.7	DEP			1.7X	139	4
2003	JAN	25	1345	48.58	19	20.51	156	6.83	42.44	29	.11	.9	1.8	KON			2.2X	251	41
2003	JAN	25	1403	20.91	19	23.62	155	16.96	2.95	17	.06	.3	.3	SSC			1.5X	70	0
2003	JAN	25	1545	34.50	19	21.53	155	19.26	29.56	23	.08	.9	.9	DEP			1.5X	122	4
2003	JAN	25	1710	14.87	19	22.45	155	30.27	9.38	18	.06	.5	1.0	KAO			1.2X	156	5
2003	JAN	25	1711	13.62	19	22.81	155	29.98	8.75	27	.09	.4	.9	KAO			1.3X	59	4
2003	JAN	25	1748	50.96	19	15.32	155	29.85	9.16	18	.11	.4	1.0	LSW			1.3X	111	11
2003	JAN	26	0833	41.56	19	13.03	155	25.87	33.47	21	.10	1.0	1.2	DLS			1.4X	208	14
2003	JAN	26	1817	12.79	19	11.89	155	30.31	31.50	29	.10	.6	1.1	DLS			1.7X	83	6
2003	JAN	26	1958	30.99	19	21.59	155	19.75	30.33	44	.12	.6	.8	DEP			2.5X	81	4
2003	JAN	26	2121	32.29	19	18.55	155	6.39	3.87	29	.09	.7	1.9	SSF			1.1X	229	9
2003	JAN	26	2255	34.96	19	20.71	155	8.16	9.18	42	.10	.6	.4	SF4			2.3X	172	5
2003	JAN	26	2319	58.35	19	18.59	155	8.00	4.93	27	.10	.8	2.1	SSF			1.4X	273	9
2003	JAN	26	2345	30.07	19	16.78	156	21.81	6.77	16	.12	8.8	11.5	DIS	-		1.3X	324	68
2003	JAN	27	0039	33.66	19	7.66	155	23.55	44.55	21	.10	1.4	.9	LOI			1.7X	278	8
2003	JAN	27	0328	18.40	19	10.71	155	41.02	0.02	30	.15	.4	.2	LSW	#		2.1X	91	9
2003	JAN	27	0511	38.95	19	58.89	155	28.43	9.60	19	.11	.8	.6	KEA			1.3X	189	17
2003	JAN	27	0723	16.81	19	50.63	155	25.58	22.34	21	.11	.8	1.6	KEA			1.3X	144	10
2003	JAN	27	0732	19.52	19	26.09	155	29.98	8.01	17	.14	.6	2.0	KAO			1.6X	112	10
2003	JAN	27	0735	44.58	19	28.08	155	25.07	1.09	16	.11	.3	.4	KAO			1.2X	99	4
2003	JAN	27	0821	29.82	19	19.50	155	6.69	2.09	22	.11	2.5	2.0	SSF			1.1X	286	7
2003	JAN	27	0915	12.21	19	27.54	155	14.53	9.04	30	.11	.5	1.0	INT			1.3X	111	4
2003	JAN	27	1045	58.61	18	43.04	156	14.09	6.65	22	.09	8.2	10.5	DIS	-		2.4X	322	93
2003	JAN	27	1243	39.00	19	19.57	155	30.47	6.37	28	.12	.4	2.4	KAO			1.4X	79	7
2003	JAN	27	1423	38.44	19	24.31	155	29.56	10.60	25	.08	.5	1.0	KAO			1.3X	120	5
2003	JAN	27	1546	58.59	19	29.60	155	27.97	8.13	19	.09	.4	1.1	KAO			1.3X	87	4
2003	JAN	27	1600	49.00	19	25.33	155	18.93	7.23	19	.13	.5	1.0	INT			1.2X	82	2
2003	JAN	27	1821	28.84	19	29.04	155	25.58	3.49	24	.09	.3	.8	KAO			1.1X	94	4
2003	JAN	27	2031	26.55	19	29.86	156	19.39	7.58	41	.11	1.6	2.0	KON			2.6X	270	55
2003	JAN	28	0019	8.78	19	12.92	155	20.56	50.27	31	.13	1.0	1.0	DEP	T		2.3X	195	14
2003	JAN	28	0053	55.11	19	30.16	155	25.64	25.42	23	.11	.7	1.1	DML			1.5X	105	4
2003	JAN	28	0903	31.40	19	50.49	156	3.55	45.51	15	.10	2.7	4.2	HUA			2.6X	313	48
2003	JAN	28	1347	56.64	19	20.11	155	2.21	4.03	22	.13	1.3	3.1	SSF			1.1X	297	11
2003	JAN	28	1550	48.88	19	18.92	155	12.55	3.64	29	.13	.6	1.6	SSF			1.2X	230	7

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JAN	28	1737	11.31	19	19.16	155	6.71	2.41	27	.08	2.9	2.6	SSF		1.3X	286	8
2003	JAN	28	1750	25.46	19	19.02	155	7.11	2.39	33	.10	2.1	1.9	SSF		1.8X	252	8
2003	JAN	28	2255	14.44	19	32.97	155	36.40	11.47	34	.13	.4	.4	MLO		2.0X	95	3
2003	JAN	28	2307	54.95	19	33.88	155	36.83	8.04	17	.15	1.2	1.5	MLO		1.0X	237	4
2003	JAN	28	2353	49.74	19	38.94	155	8.74	11.96	31	.10	.6	.8	HIL		1.5X	273	25
2003	JAN	29	0647	36.70	19	29.40	155	22.60	9.99	26	.09	.5	.8	KAO		1.4X	147	1
2003	JAN	29	1552	46.12	19	15.46	155	11.55	8.13	29	.10	.7	1.3	SF3		1.5X	258	13
2003	JAN	29	1735	24.94	19	34.16	155	43.73	7.56	19	.11	.7	1.8	KON		1.6X	122	8
2003	JAN	29	1741	52.18	19	34.20	155	43.00	5.24	19	.10	.9	4.4	MLO		1.1X	222	8
2003	JAN	29	1930	29.55	18	53.23	155	13.66	29.34	33	.10	1.1	2.4	LOI		1.9X	273	39
2003	JAN	29	2129	19.84	18	51.16	155	10.08	7.45	30	.15	1.2	1.1	LOI		2.0X	282	46
2003	JAN	29	2201	30.31	19	24.77	155	16.90	1.90	24	.11	.3	.2	SNC	L	2.1X	143	0
2003	JAN	29	2236	29.15	19	18.76	155	0.29	5.98	29	.10	1.4	.6	SF5		1.6X	316	15
2003	JAN	30	0313	28.46	19	19.99	155	18.84	1.07	21	.10	.3	.3	SWR		1.0X	103	4
2003	JAN	30	0931	50.04	19	24.62	155	16.62	1.48	22	.12	.3	.2	SNC		1.6X	98	1
2003	JAN	30	1817	42.93	19	23.69	155	21.93	10.82	23	.08	.5	.8	KAO		1.4X	99	4
2003	JAN	30	1820	21.39	19	24.82	155	16.49	14.48	18	.09	1.0	.3	DEP		1.1X	212	2
2003	JAN	30	2255	45.28	19	20.72	155	3.56	6.23	22	.12	1.1	1.3	SF5		1.2X	325	9
2003	JAN	31	0121	59.61	19	21.75	155	28.69	8.17	33	.10	.3	.9	KAO		1.3X	70	2
2003	JAN	31	0535	19.81	19	27.96	155	36.29	12.25	24	.13	.6	.9	MLO	L	2.0X	86	1
2003	JAN	31	1943	3.14	19	21.94	154	57.84	13.83	21	.09	1.7	.6	LER		1.5X	314	22
2003	JAN	31	2151	1.82	19	18.18	155	13.27	2.39	28	.10	.7	.9	SSF		1.2X	232	8
2003	JAN	31	2311	21.15	19	14.74	155	30.10	38.18	31	.13	.7	1.3	DLS		2.4X	91	10
2003	FEB	1	0353	28.03	19	26.54	155	28.90	10.39	37	.10	.3	.8	KAO		2.0X	46	8
2003	FEB	1	0835	58.96	19	25.11	155	19.57	6.88	35	.10	.4	.7	KAO		2.0X	82	3
2003	FEB	1	1223	33.05	19	25.28	155	16.61	1.78	17	.07	.4	.2	SNC	L	2.1X	113	1
2003	FEB	1	1447	31.96	19	32.78	155	4.22	17.77	36	.07	1.0	2.5	HIL	F	2.6X	250	18
2003	FEB	1	1736	5.65	19	57.16	155	28.66	31.00	16	.11	1.6	2.5	KEA		1.6X	283	22
2003	FEB	1	1855	22.18	19	25.31	155	24.44	7.29	21	.10	.4	1.5	KAO		1.5X	76	8
2003	FEB	1	1943	41.50	19	17.23	155	2.30	5.24	25	.12	.9	1.3	SF5		1.3X	316	15
2003	FEB	1	2011	1.57	19	19.56	155	7.24	7.11	29	.11	.7	.6	SF4		1.7X	203	4
2003	FEB	1	2213	17.80	19	16.61	155	33.86	12.36	26	.09	.4	1.3	LSW		1.4X	97	14
2003	FEB	2	0807	27.73	19	24.09	155	29.48	9.61	26	.08	.4	1.0	KAO		1.2X	124	4
2003	FEB	2	1936	38.50	19	19.78	155	8.47	6.67	28	.11	.6	.7	SF4		1.9X	156	5
2003	FEB	2	2010	19.18	19	22.85	155	5.15	7.33	25	.10	1.1	.7	SF5		2.2X	265	4
2003	FEB	3	0122	36.71	19	16.54	155	32.82	11.43	16	.07	.5	2.0	LSW		1.5X	133	14
2003	FEB	3	0124	30.42	19	12.22	155	29.95	33.44	43	.08	.5	1.0	DLS		2.9X	74	6
2003	FEB	3	0852	14.00	19	10.49	155	14.34	47.07	17	.11	1.8	1.3	DEP		1.6X	290	19
2003	FEB	3	2149	49.39	19	12.42	155	26.20	1.54	17	.10	.9	.5	LSW		1.3X	190	6
2003	FEB	3	2251	3.97	19	15.39	155	33.47	6.57	20	.11	.5	3.7	LSW		1.4X	74	15
2003	FEB	4	1000	26.60	19	26.42	155	53.43	13.36	34	.09	1.0	.4	KON		2.5X	253	15
2003	FEB	4	1024	37.91	19	6.31	155	28.22	30.48	22	.05	.8	1.4	DLS		1.6X	202	6
2003	FEB	4	1045	18.27	19	19.59	155	47.33	9.64	29	.14	.7	.6	KON		1.4X	206	13
2003	FEB	4	1212	19.64	19	19.37	155	11.42	3.05	20	.16	.4	1.6	SSF		1.3X	99	6
2003	FEB	4	1608	51.33	20	5.66	155	29.01	8.05	19	.09	1.1	1.3	KEA		1.8X	240	31
2003	FEB	4	1924	23.63	19	24.77	155	19.72	5.43	19	.12	.4	.8	KAO		1.0X	106	2
2003	FEB	4	2153	50.77	18	49.27	155	14.23	42.51	21	.08	1.3	2.1	LOI		1.6X	291	44
2003	FEB	4	2332	27.58	19	21.79	156	26.38	6.48	24	.11	6.8	8.7	DIS	-	1.8X	317	73
2003	FEB	5	0157	45.13	19	25.19	155	19.32	5.53	17	.12	.5	1.1	KAO		1.4X	83	3
2003	FEB	5	0201	15.08	19	20.22	155	7.96	5.40	33	.14	.6	1.2	SF4		1.4X	174	5
2003	FEB	5	0219	0.17	19	25.13	155	19.28	5.28	26	.11	.4	.9	KAO		1.3X	81	3
2003	FEB	5	0226	38.20	19	25.21	155	19.31	6.27	28	.13	.4	.9	KAO		1.4X	63	3
2003	FEB	5	0358	37.99	19	26.44	155	29.17	9.10	33	.12	.4	1.1	KAO		1.3X	60	8
2003	FEB	5	0919	23.57	19	49.01	155	33.04	22.01	45	.11	.6	1.3	KEA	F	2.9X	92	10
2003	FEB	5	1025	32.16	19	21.77	155	20.62	27.29	22	.08	.7	1.0	DEP		1.4X	99	6
2003	FEB	5	1404	0.34	19	22.22	155	18.86	29.59	44	.12	.6	.9	DEP		2.8X	38	3
2003	FEB	5	2046	54.23	19	11.63	155	34.86	29.83	24	.08	.7	1.2	DLS		1.2X	151	10
2003	FEB	5	2306	1.07	19	26.82	155	29.37	11.01	28	.10	.4	1.0	KAO		1.2X	58	9
2003	FEB	6	0150	31.27	19	20.43	155	13.22	6.14	39	.11	.3	.7	SF2		1.6X	63	4
2003	FEB	6	0153	52.14	19	19.44	155	11.37	5.13	33	.11	.4	1.6	SF3		1.2X	98	6
2003	FEB	6	0213	43.36	19	18.77	155	13.66	10.05	38	.11	.4	.4	SF2		2.2X	70	3
2003	FEB	6	0356	18.17	19	12.52	155	28.99	36.05	25	.07	.7	1.4	DLS		1.2X	88	5
2003	FEB	6	1119	46.32	19	26.52	155	23.51	10.30	42	.10	.3	.6	KAO		1.8X	75	6
2003	FEB	6	2129	19.11	19	21.73	155	5.26	5.69	22	.12	1.0	1.5	SF5		1.4X	266	5
2003	FEB	6	2225	23.86	19	21.41	155	19.60	28.04	40	.11	.5	.9	DEP		1.7X	49	4
2003	FEB	6	2253	32.48	18	59.91	155	5.67	42.55	44	.10	1.0	1.4	LOI	F	3.3X	273	32
2003	FEB	7	0235	17.22	19	9.75	155	32.52	1.54	26	.12	.4	.5	LSW		1.3X	122	8
2003	FEB	7	0421	59.61	19	20.63	155	7.03	5.30	37	.12	.6	1.0	SF4		2.3X	207	5
2003	FEB	7	0433	26.55	19	19.98	155	11.56	7.13	38	.12	.4	.8	SF3		2.4X	85	6
2003	FEB	7	0621	35.51	18	48.98	155	35.49	42.47	31	.07	.9	1.1	DLS		2.1X	292	20
2003	FEB	7	0638	27.81	19	23.10	155	14.54	3.52	31	.12	.3	.4	SEC		2.1X	111	3
2003	FEB	7	1613	2.15	19	11.41	155	31.34	40.61	29	.08	.7	1.1	DLS		1.4X	95	7
2003	FEB	7	1931	46.90	19	21.92	155	28.50	11.26	36	.08	.3	.7	KAO		1.5X	65	2
2003	FEB	7	2308	48.95	19	13.99	155	32.89	5.56	24	.12	.4	1.5	LSW		1.4X	125	5
2003	FEB	8	0519	51.16	19	19.39	155	10.49	7.45	31	.09	.4	.6	SF3		1.4X	101	6
2003	FEB	8	0533	51.07	19	11.48	155	32.38	1.70	22	.11	.3	.6	LSW		1.4X	97	8
2003	FEB	8	0700	3.71	19	19.88	155	8.10	3.43	28	.12	1.2	2.0	SSF		1.2X	170	5
2003	FEB	8	1031	17.72	19	17.58	155	46.14	10.44	37	.11	.6	.4	KON		2.0X	183	13
2003	FEB	8	1104	45.07	19	57.87	155	26.65	7.15	16	.12	1.1	1.1	KEA		1.3X	224	20
2003	FEB	8	2056	55.65	19	20.96	155	7.52	7.69	23	.10	.6	.5	SF4		1.1X	190	4
2003	FEB	8	2113	32.20	19	25.23	155	18.80	6.52	27	.10	.4	.7	INT		1.2X	79	2
2003	FEB	9	0325	24.64	19	40.12	155	48.09	31.34	30	.10	.8	1.2	HUA		1.6X	219	18
2003	FEB	9	0329	6.42	19	22.73	155	25.23	11.23	20	.08	.5	.9	KAO		1.4X	121	4
2003	FEB	9	0530	57.30	19	20.56	155	10.99	7.44	36	.13	.4	.7	SF3		1.6X	90	4
2003	FEB	10	0131	16.00	19	17.48	155	46.17	10.89	32	.10	.5	.5	KON		1.4X	183	13
2003	FEB	10	0207	19.06	19	19.57	155	11.50	6.51	39	.12	.4	.7	SF3		1.6X	94	6
2003	FEB	10	0431	58.27	19	17.67	155	31.14	7.03	27	.15	.4	1.4	LSW		1.1X	67	5
2003	FEB	10	1525	22.32	19	43.07	155	9.49	29.46	31	.11	1.1	2.0	KEA		1.6X	252	31
2003	FEB	10	1933	17.35	19	30.40	155	11.88	23.47	17	.09	1.2	1.4	DEP		1.1X	205	14
2003	FEB	10	2242	36.82	20	0.75	155	30.78	42.34	19	.09	1.4	1.8	KEA		1.5X	321	26

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	FEB	11	0652	54.80	19	17.56	155	12.62	5.52	31	.11	.4	1.0	SF2	1.4X	198	2
2003	FEB	11	0747	30.56	19	14.70	155	30.87	8.69	29	.15	.4	1.0	LSW	1.5X	70	1
2003	FEB	11	1901	31.18	19	11.93	155	27.68	2.24	35	.13	.3	.6	LSW	1.5X	116	4
2003	FEB	11	1954	51.81	19	11.73	155	28.14	8.47	33	.12	.4	.8	LSW F	1.8X	104	4
2003	FEB	11	2200	11.27	19	30.77	155	44.60	10.59	22	.13	.9	.7	KON	2.4X	179	2
2003	FEB	12	0043	44.51	19	13.45	155	28.16	39.60	25	.08	.9	1.3	DLS	1.3X	181	5
2003	FEB	12	0128	56.26	19	15.97	155	27.22	7.43	26	.15	.4	1.4	LSW	1.1X	101	5
2003	FEB	12	0411	29.27	19	18.98	155	30.43	9.52	33	.08	.3	.9	LSW	1.3X	110	7
2003	FEB	12	0430	19.54	19	26.55	155	51.82	14.41	24	.11	1.2	.5	KON	1.4X	246	23
2003	FEB	12	0505	7.78	19	18.14	155	1.06	41.01	27	.10	1.8	1.1	DEP	1.4X	305	18
2003	FEB	12	1112	45.79	19	53.24	155	39.18	34.09	16	.09	1.1	1.1	KEA	1.4X	311	3
2003	FEB	12	2114	44.73	19	28.10	155	36.68	14.31	22	.08	.5	.7	DML	1.0X	94	2
2003	FEB	13	0211	9.87	19	29.20	154	51.73	6.56	21	.12	1.4	1.3	LER	1.4X	302	30
2003	FEB	13	0246	1.87	19	25.01	155	18.86	6.98	36	.10	.4	.6	INT	1.4X	56	2
2003	FEB	13	0348	58.52	19	24.23	155	16.97	1.34	20	.12	.3	.2	SSC	1.5X	92	1
2003	FEB	13	0522	17.00	19	2.89	155	26.48	38.57	28	.07	.8	1.3	DLS	1.2X	213	12
2003	FEB	13	0800	50.37	19	45.92	155	35.74	15.49	43	.11	.4	.6	KEA	2.2X	115	12
2003	FEB	13	1058	46.96	19	22.92	155	14.50	3.41	14	.07	.4	.4	SEC	1.2X	135	3
2003	FEB	13	1444	0.26	19	11.90	155	37.79	1.13	30	.17	.4	.5	LSW	1.5X	87	15
2003	FEB	13	1918	27.36	19	20.37	155	11.07	6.52	20	.13	.6	1.5	SF3	1.4X	88	5
2003	FEB	13	1950	55.18	19	30.48	155	51.11	16.49	12	.08	7.9	12.9	KON -	1.1X	304	26
2003	FEB	14	1020	17.75	19	22.39	155	30.08	10.23	16	.04	.5	1.0	KAO	1.3X	84	4
2003	FEB	14	1055	21.47	19	12.92	155	17.50	45.35	34	.09	.9	1.2	DEP	2.0X	175	9
2003	FEB	14	1231	3.82	19	35.46	155	6.59	7.91	16	.11	1.3	2.7	HIL	1.3X	254	21
2003	FEB	14	1444	36.89	19	14.33	155	6.48	40.23	41	.09	.8	.9	DEP	2.2X	233	6
2003	FEB	14	1848	15.21	19	24.84	155	31.50	12.32	19	.11	.6	1.4	KAO	1.3X	76	8
2003	FEB	15	0336	18.96	19	1.69	155	26.18	38.39	38	.09	.8	1.3	DLS	2.1X	212	15
2003	FEB	15	1052	54.58	19	18.50	155	13.16	5.31	28	.14	.5	1.4	SF2	1.6X	89	3
2003	FEB	15	1327	49.67	19	17.11	155	11.79	8.03	22	.10	.9	.8	SF3	1.1X	276	3
2003	FEB	15	2056	20.59	19	11.77	155	37.48	6.54	38	.13	.3	1.2	LSW	1.5X	89	14
2003	FEB	16	0411	38.52	19	30.57	155	2.20	44.77	41	.08	1.0	.7	DEP	1.8X	251	12
2003	FEB	16	0602	9.36	19	31.59	155	15.97	29.45	31	.07	.8	.9	DEP	1.5X	182	7
2003	FEB	16	1746	1.75	19	11.19	155	30.69	40.42	30	.07	.6	1.1	DLS	1.5X	95	6
2003	FEB	16	2254	47.18	19	19.80	155	7.83	9.79	42	.09	.5	.3	SF4	2.7X	146	5
2003	FEB	16	2335	4.92	19	11.25	155	41.54	9.16	30	.11	.4	1.5	LSW	1.6X	104	9
2003	FEB	17	1342	12.12	19	1.58	155	26.05	38.84	40	.08	.8	1.2	DLS	2.1X	217	15
2003	FEB	17	1359	39.18	19	20.64	155	4.56	4.68	24	.12	.9	3.7	SSF	1.4X	240	7
2003	FEB	17	1443	2.51	18	49.93	156	11.33	32.30	29	.09	1.7	3.8	DIS	2.6X	326	57
2003	FEB	17	1853	14.07	19	13.51	155	29.11	39.18	25	.07	.9	1.3	DLS	1.4X	179	3
2003	FEB	18	0717	9.35	19	23.53	155	23.53	13.64	37	.11	.4	.6	DML	1.5X	55	6
2003	FEB	18	1738	28.76	19	18.25	155	13.38	5.65	33	.13	.4	1.1	SF2	1.4X	86	2
2003	FEB	18	2122	59.12	19	18.81	155	30.27	11.35	26	.06	.3	.9	LSW	1.2X	109	7
2003	FEB	18	2339	30.89	19	29.33	155	26.74	6.86	30	.11	.3	1.0	KAO	1.5X	83	5
2003	FEB	19	0129	20.23	20	15.85	155	52.01	6.90	23	.10	8.5	10.9	KOH -	1.8X	329	68
2003	FEB	19	1058	4.13	19	22.49	155	14.31	3.29	26	.10	.3	.3	SEC	1.5X	102	2
2003	FEB	19	2342	48.19	19	15.44	155	29.74	11.35	28	.09	.4	1.0	LSW	1.6X	87	1
2003	FEB	19	2352	3.83	19	21.02	155	7.91	9.27	41	.08	.3	.4	SF4	1.8X	117	4
2003	FEB	20	0145	11.64	19	24.56	155	36.30	1.37	18	.11	.3	.4	MLO	1.4X	115	3
2003	FEB	20	0231	56.96	19	17.93	155	9.35	41.42	39	.11	.8	.8	DEP	1.5X	144	3
2003	FEB	20	0540	50.73	19	52.74	155	19.40	29.41	35	.11	.7	1.3	KEA	1.9X	182	2
2003	FEB	20	0812	24.60	19	26.99	155	23.60	10.03	25	.10	.4	1.1	KAO	1.2X	78	5
2003	FEB	20	0937	49.00	19	18.78	155	23.15	33.05	41	.09	.6	.9	DEP	1.9X	106	3
2003	FEB	20	1309	24.57	19	18.96	155	13.50	4.51	23	.12	.4	1.8	SSF	1.1X	80	4
2003	FEB	20	1321	8.42	20	17.46	155	31.42	4.55	30	.15	1.9	1.3	KEA	2.2X	276	32
2003	FEB	20	1455	42.34	19	22.82	155	14.18	3.66	23	.11	.4	.5	SEC	1.5X	110	2
2003	FEB	20	2019	15.86	19	22.41	155	29.87	9.39	20	.06	.4	1.0	KAO	.9X	83	4
2003	FEB	20	2213	40.76	19	24.79	155	36.71	1.66	17	.13	.4	.4	MLO	1.0X	101	2
2003	FEB	20	2252	20.61	19	17.72	155	12.95	9.59	40	.10	.5	.6	SF2	1.9X	141	9
2003	FEB	20	2321	42.99	19	17.68	155	12.71	9.75	44	.11	.4	.5	SF2	1.7X	141	8
2003	FEB	20	2323	38.58	19	16.69	155	12.50	8.81	36	.12	.5	.6	SF2	1.5X	163	2
2003	FEB	21	0014	6.61	19	16.23	155	11.93	8.56	37	.11	.6	.6	SF3	1.5X	174	3
2003	FEB	21	0026	46.90	19	22.24	155	11.05	3.10	37	.10	.4	.3	SER	1.9X	128	2
2003	FEB	21	0136	10.45	19	24.34	155	16.40	1.44	15	.07	.3	.2	SEC	1.4X	149	1
2003	FEB	21	0409	11.80	19	20.37	155	10.91	7.69	39	.10	.4	.5	SF3	1.4X	79	5
2003	FEB	21	0836	49.44	19	17.34	155	13.16	6.21	28	.09	.5	.9	SF2	1.1X	134	1
2003	FEB	21	0843	36.54	19	12.43	155	16.91	43.04	34	.08	.9	1.0	DEP	1.6X	186	10
2003	FEB	21	0844	14.03	19	9.29	155	18.67	36.39	27	.12	1.2	1.0	LOI	1.5X	249	16
2003	FEB	21	0855	24.89	19	12.76	155	16.87	42.89	31	.08	.8	1.0	DEP	1.5X	227	10
2003	FEB	21	0906	37.02	19	13.66	155	29.21	38.83	46	.08	.5	.9	DLS	1.8X	92	3
2003	FEB	21	1045	52.71	19	12.57	155	36.89	0.06	20	.14	.5	.3	LSW #	1.5X	141	13
2003	FEB	21	1322	56.89	19	16.57	155	12.50	6.30	26	.09	.6	.9	SF2	1.0X	225	2
2003	FEB	21	1559	39.10	19	20.96	155	5.85	8.15	39	.13	.4	.6	SF4	1.5X	151	5
2003	FEB	21	1603	43.73	19	2.89	155	31.19	45.44	31	.08	.9	1.3	DLS	1.7X	197	14
2003	FEB	22	0000	40.54	19	27.93	154	51.73	0.01	34	.14	1.7	.4	SLE F#	1.9X	276	13
2003	FEB	22	0254	10.47	19	11.75	155	34.90	6.71	44	.17	.4	1.0	LSW	2.1X	94	10
2003	FEB	22	0353	51.39	19	20.25	155	8.20	7.20	41	.12	.5	.6	SF4	1.7X	114	5
2003	FEB	22	1159	35.69	19	21.77	155	49.82	11.34	25	.12	1.0	.5	KON	1.6X	273	17
2003	FEB	22	1301	56.96	19	20.56	155	6.98	6.80	24	.08	.4	.9	SF4	1.3X	138	5
2003	FEB	22	1639	1.28	19	11.84	155	14.80	44.28	31	.08	.8	.9	DEP	1.9X	212	10
2003	FEB	22	1639	58.23	19	10.83	155	14.42	44.53	38	.10	.9	1.1	DEP	2.1X	218	12
2003	FEB	23	0231	18.97	19	23.78	155	16.46	29.50	17	.04	1.7	1.2	DEP	2.1X	96	0
2003	FEB	23	0607	19.36	19	14.37	156	21.51	6.84	21	.11	8.1	10.6	DIS -	1.8X	318	69
2003	FEB	23	1023	44.31	19	19.99	155	7.40	7.25	42	.11	.4	.6	SF4	2.2X	134	5
2003	FEB	23	1157	51.78	19	23.75	155	16.79	3.06	20	.10	.4	.3	SSC	1.3X	49	0
2003	FEB	23	1350	10.30	19	36.32	156	29.86	34.21	27	.12	1.6	3.5	DIS	2.2X	321	78
2003	FEB	23	1524	11.40	19	18.14	155	15.36	7.37	38	.08	.4	.6	SF1	1.6X	114	4
2003	FEB	23	1654	3.95	19	8.10	155	35.75	39.85	15	.10	1.4	2.0	DLS	1.5X	276	16
2003	FEB	23	2024	31.32	19	8.61	155	24.05	47.02	19	.10	1.0	1.6	LOI	1.7X	234	7
2003	FEB	23	2025	23.82	19	4.89	155	25.84	45.15	21	.10	1.1	1.5	DLS	1.8X	273	9
2003	FEB	23	2253	33.92	19	18.33	155	21.62	2.94	19	.10	.4	.7	SWR	1.1X	150	5

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	FEB	24	0333	50.63	19	20.35	155	7.78		8.22	44	.10	.4	.5	SF4	2.1X	124	5
2003	FEB	24	0505	4.38	19	24.60	155	38.26		3.09	24	.11	.4	.3	MLO	1.6X	102	1
2003	FEB	24	1055	57.42	19	24.79	155	36.75		1.79	18	.12	.3	.4	MLO	1.4X	100	2
2003	FEB	24	1100	54.40	19	9.14	155	37.81		1.92	24	.16	.6	.8	LSW	1.4X	148	17
2003	FEB	24	1209	26.64	19	28.22	155	23.44		2.08	34	.12	.3	.5	KAO	1.8X	87	3
2003	FEB	24	1429	14.14	19	26.43	155	29.02		10.39	28	.11	.5	1.2	KAO	1.4X	59	11
2003	FEB	24	1608	30.89	19	27.83	155	23.69		1.15	24	.11	.3	.3	KAO	1.4X	80	4
2003	FEB	24	1753	24.02	19	19.29	155	12.49		5.04	31	.11	.4	1.4	SF2	1.2X	89	5
2003	FEB	24	2118	27.28	19	28.16	155	23.58		1.79	29	.07	.2	.4	KAO	1.6X	84	3
2003	FEB	25	0127	16.60	19	28.52	155	23.09		2.79	22	.10	.4	.4	KAO	1.3X	104	2
2003	FEB	25	0427	36.25	19	18.82	155	12.97		5.28	23	.14	.7	1.5	SF2	1.3X	196	3
2003	FEB	25	0500	42.45	19	24.19	154	57.06		2.43	23	.16	1.0	.4	SLE	1.4X	259	3
2003	FEB	25	1110	49.05	19	18.94	155	15.24		5.51	30	.11	.3	.9	SF1	1.2X	116	4
2003	FEB	25	1124	47.71	19	28.36	155	16.92		24.43	27	.10	.9	.9	DEP	1.2X	174	1
2003	FEB	25	1649	21.40	19	27.17	155	52.48		6.42	21	.18	1.5	2.0	KON	1.1X	302	13
2003	FEB	25	1734	11.10	19	28.70	155	14.68		13.04	30	.14	.5	.6	DEP	1.1X	71	4
2003	FEB	25	1816	34.95	19	48.45	155	20.04		28.67	33	.12	.6	1.2	KEA	1.5X	115	9
2003	FEB	25	1846	26.02	19	21.34	155	5.03		8.78	46	.10	.5	.4	SF5 F	3.5U	158	6
2003	FEB	26	0916	35.22	18	57.14	155	34.79		44.78	42	.07	.8	1.1	DLS	2.7X	240	10
2003	FEB	26	1349	1.44	19	36.59	154	54.62		42.08	44	.11	.8	.9	HIL	2.3X	249	16
2003	FEB	26	1742	35.13	19	21.73	155	19.75		4.68	20	.14	.5	2.2	SWR	1.5X	85	4
2003	FEB	26	1750	38.48	19	26.80	155	20.37		14.00	37	.12	.4	.4	DML	1.6X	49	5
2003	FEB	27	0042	16.12	19	18.16	155	13.21		4.45	32	.11	.4	1.1	SSF	1.2X	130	2
2003	FEB	27	0549	55.00	19	21.64	155	4.78		6.61	34	.14	.6	.8	SF5	1.7X	158	5
2003	FEB	27	0656	8.35	19	25.77	155	1.26		42.91	25	.10	1.3	1.0	DEP	1.7X	137	5
2003	FEB	27	1341	6.40	19	5.68	155	20.52		17.04	18	.15	1.8	6.8	LOI	1.3X	289	23
2003	FEB	27	1744	43.89	19	28.34	155	25.39		4.22	31	.13	.4	1.8	KAO	1.7X	45	5
2003	FEB	27	1923	33.54	19	35.66	155	34.72		7.31	18	.14	.8	2.0	KEA	1.3X	146	10
2003	FEB	27	2023	9.12	19	11.38	155	38.48		3.34	25	.14	.6	1.9	LSW	2.0X	174	16
2003	FEB	27	2023	53.68	19	11.15	155	38.25		6.73	20	.14	.7	1.9	LSW	1.8X	151	16
2003	FEB	27	2049	18.87	19	22.26	155	29.69		9.67	42	.10	.3	.6	KAO	2.1X	72	12
2003	FEB	28	0457	44.60	19	24.33	155	29.23		9.25	15	.11	.6	1.9	KAO	1.1X	69	12
2003	FEB	28	0517	38.26	19	24.20	155	17.10		1.34	17	.11	.3	.2	SSC	1.5X	88	1
2003	FEB	28	1224	21.52	19	53.59	155	27.22		30.09	44	.10	.5	1.0	KEA	2.6X	143	12
2003	FEB	28	1257	5.34	19	20.61	155	13.01		7.14	38	.13	.4	.6	SF2	1.8X	121	4
2003	FEB	28	1556	59.51	19	29.03	155	22.50		2.50	22	.11	.5	.4	KAO	1.8X	142	2
2003	FEB	28	1742	43.07	19	28.70	155	22.44		2.25	22	.13	.6	.5	KAO	1.5X	135	3
2003	FEB	28	2054	58.02	19	12.81	155	28.09		8.23	19	.12	.7	1.0	LSW	1.5X	147	5
2003	MAR	1	0152	29.72	19	25.33	155	16.15		2.25	21	.12	.4	.3	SNC L	2.3X	125	2
2003	MAR	1	0456	37.51	20	2.98	155	25.98		7.66	22	.13	1.0	.6	KEA	1.6X	208	20
2003	MAR	1	0509	13.97	19	18.61	155	13.75		8.49	40	.09	.4	.4	SF2	2.0X	88	3
2003	MAR	1	0950	33.24	19	13.27	155	19.63		26.51	39	.09	.8	1.0	DEP	1.6X	212	9
2003	MAR	1	1203	13.09	19	22.61	155	17.39		32.54	45	.10	.6	.6	DEP	2.3X	44	2
2003	MAR	1	1605	52.75	19	25.05	155	30.16		7.33	33	.08	.3	1.8	KAO	1.6X	70	10
2003	MAR	1	1757	27.30	19	49.58	156	8.44		41.85	31	.11	1.3	2.3	HUA	2.2X	293	53

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAR	1	2115	38.16	19	19.56	155	7.78		8.84	45	.10	.4	.4	SF4 F	3.3X	128	4
2003	MAR	1	2139	8.55	19	25.30	155	13.53		5.41	20	.09	.4	1.8	SF2	1.2X	146	5
2003	MAR	2	0210	19.73	19	28.36	154	52.55		2.62	36	.17	1.6	1.4	SLE F	2.2X	273	12
2003	MAR	2	0300	47.67	19	19.51	155	8.84		8.14	40	.07	.4	.5	SF4	1.5X	99	4
2003	MAR	2	0722	11.51	19	13.04	155	27.56		39.81	41	.08	.6	1.0	DLS	1.7X	148	6
2003	MAR	2	0951	28.26	19	18.07	155	27.27		9.75	23	.09	.4	1.2	LSW	1.2X	129	7
2003	MAR	2	1310	48.77	19	21.58	155	5.26		5.79	23	.11	.8	.9	SF5	1.2X	180	5
2003	MAR	2	1431	3.86	19	18.58	155	9.66		7.40	29	.10	.5	1.0	SF3	1.2X	120	4
2003	MAR	2	2047	7.16	19	18.23	155	29.05		6.50	29	.09	.3	1.4	LSW	1.1X	104	6
2003	MAR	2	2055	41.70	19	23.02	155	16.83		3.36	37	.10	.3	.2	SSC	1.9X	47	1
2003	MAR	3	0122	26.22	20	46.85	156	5.85		3.50	21	.10	10.0	8.6	DIS -	2.4X	329	80
2003	MAR	3	0149	53.94	19	10.56	155	33.49		0.71	35	.14	.4	.3	LSW	1.6X	135	10
2003	MAR	3	0258	17.31	19	21.37	155	30.19		10.55	35	.09	.4	1.1	KAO	1.4X	72	12
2003	MAR	3	0850	48.81	19	27.70	155	29.63		10.88	37	.10	.3	.6	KAO	1.8X	78	9
2003	MAR	3	1154	47.71	19	23.20	155	16.91		2.91	22	.09	.3	.2	SSC	1.6X	83	0
2003	MAR	3	1344	56.85	19	4.12	155	30.02		32.07	28	.08	.8	1.9	DLS	1.9X	192	20
2003	MAR	3	2107	50.50	19	28.55	155	23.54		2.89	29	.13	.5	.6	KAO	1.7X	86	2
2003	MAR	3	2216	0.75	19	25.68	155	28.66		10.76	33	.08	.4	.7	KAO	1.8X	70	12
2003	MAR	3	2236	24.78	20	7.72	155	34.91		42.59	40	.10	.9	2.0	KOH F	2.7X	302	36
2003	MAR	4	1153	45.81	19	28.98	155	27.85		7.42	40	.11	.3	.9	KAO	1.6X	54	6
2003	MAR	4	1157	45.81	19	28.41	154	52.91		2.22	32	.16	1.0	1.1	SLE F	2.1X	186	5
2003	MAR	4	1548	37.28	19	24.39	155	29.37		10.62	40	.08	.3	.8	KAO	1.6X	69	12
2003	MAR	4	1937	10.99	19	16.57	155	19.47		7.91	22	.13	.7	.9	SWR	1.1X	177	3
2003	MAR	4	1938	59.97	18	57.26	155	12.79		37.89	39	.08	1.0	1.5	LOI	2.1X	249	36
2003	MAR	4	1954	58.49	19	13.53	155	28.94		8.38	23	.13	.6	.7	LSW	1.1X	231	4
2003	MAR	5	0927	42.32	19	25.93	155	22.50		10.12	36	.11	.4	.8	KAO	2.0X	47	6
2003	MAR	5	1138	8.46	18	56.82	155	11.60		45.51	32	.07	1.3	1.8	LOI	2.3X	252	37
2003	MAR	5	1138	58.58	19	26.89	155	28.31		8.73	27	.09	.4	1.4	KAO	1.6X	55	9
2003	MAR	5	1739	1.36	19	11.89	155	40.13		0.03	18	.12	.6	.5	LSW #	1.4X	166	11
2003	MAR	5	2035	7.78	19	22.27	155	30.13		11.64	25	.07	.4	1.4	KAO	1.0X	86	13
2003	MAR	6	0302	48.49	19	28.38	154	53.22		0.12	21	.17	1.1	.4	SLE #	1.7X	182	6
2003	MAR	6	0619	3.87	19	35.51	155	52.60		5.72	26	.15	1.0	.6	KON	1.7X	280	15
2003	MAR	6	0829	50.92	19	15.14	155	26.67		5.62	24	.11	.5	2.2	LSW	1.2X	188	6
2003	MAR	6	1732	57.44	19	32.10	155	42.99		11.12	22	.13	.8	.6	MLO	1.4X	163	6
2003	MAR	6	1805	48.20	19	20.07	155	7.19		7.32	38	.09	.5	.7	SF4	1.7X	186	7
2003	MAR	6	1831	33.42	19	16.58	155	11.99		9.80	26	.09	.6	.8	SF3	1.4X	188	3
2003	MAR	6	1833	0.16	19	18.38	155	13.41		3.86	20	.08	.9	1.4	SSF	1.3X	148	3
2003	MAR	6	2018	13.40	19	21.84	155	4.97		6.02	21	.09	.9	1.3	SF5	1.3X	180	5
2003	MAR	6	2214	52.03	19	25.92	155	13.43		2.37	23	.11	.4	.8	SER F	1.3X	151	6
2003	MAR	6	2333	17.92	19	23.59	155	29.81		9.22	37	.07	.3	.8	KAO	1.8X	65	12
2003	MAR	6	2353	36.93	19	19.52	155	11.32		8.23	36	.11	.5	.6	SF3	1.4X	156	6
2003	MAR	7	0121	2.11	19	23.20	155	13.74		4.13	18	.11	.5	.6	SER	1.2X	128	2
2003	MAR	7	0924	32.31	19	21.06	155	6.45		6.93	34	.11	.6	.8	SF4	1.5X	141	7
2003	MAR	7	1842	52.84	19	19.70	155	12.38		7.44	34	.12	.5	.7	SF2	1.5X	83	5
2003	MAR	7	2054	37.15	19	12.17	155	18.06		43.72	17	.07	1.1	1.5	DEP	1.4X	197	11

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAR	8	0103	22.63	19	23.21	155	16.80		2.99	31	.09	.3	.2	SSC	2.3X	47	0
2003	MAR	8	0828	18.65	19	21.41	155	4.44		7.39	26	.12	.7	.9	SF5	1.5X	165	5
2003	MAR	8	1258	19.23	19	28.89	155	54.04	13.62	14	.13	2.9	.8	KON		1.4X	311	15
2003	MAR	8	1945	20.08	19	18.45	155	14.80		6.08	22	.13	.6	1.5	SF1	1.3X	120	4
2003	MAR	8	2152	17.49	19	19.29	155	30.57		3.15	21	.10	.5	4.1	KAO	1.4X	110	8
2003	MAR	9	0346	19.98	19	17.25	155	14.01		6.09	24	.09	.5	1.0	SF2	1.1X	149	1
2003	MAR	9	0606	27.07	19	12.41	155	18.36	43.48	33	.10	.9	1.1	DEP		1.6X	183	10
2003	MAR	9	1233	6.85	19	14.49	155	33.14		3.80	35	.14	.5	1.1	LSW	1.6X	122	5
2003	MAR	9	1827	45.96	19	19.57	155	11.87		6.53	21	.09	.4	1.2	SF3	1.8X	91	5
2003	MAR	9	1838	53.92	19	20.18	155	12.23		5.20	28	.11	.4	1.4	SF3	1.2X	164	5
2003	MAR	10	0054	57.16	19	12.55	155	17.91	43.41	38	.10	.8	1.0	DEP		1.6X	183	10
2003	MAR	10	0311	21.21	19	14.17	155	23.57	33.75	26	.09	1.0	1.3	DEP		1.2X	206	11
2003	MAR	10	0328	49.52	19	11.01	155	32.48		7.36	27	.11	.7	.9	LSW	1.3X	255	9
2003	MAR	10	0852	38.15	19	28.47	155	26.81		8.12	36	.12	.4	1.1	KAO	1.9X	55	7
2003	MAR	10	1400	1.93	19	18.23	155	30.79		1.15	21	.11	.4	.6	LSW	1.3X	123	6
2003	MAR	10	1447	46.86	19	21.45	155	18.56		3.73	31	.09	.3	.6	SWR	1.4X	73	3
2003	MAR	10	1530	22.85	19	24.33	155	16.49	14.26	27	.07	.6	.4	DEP		.9X	128	3
2003	MAR	10	1637	58.56	19	39.44	156	8.70		7.25	24	.13	2.3	3.3	HUA	1.8X	250	60
2003	MAR	10	2003	55.50	19	13.07	155	18.25	43.58	21	.08	1.2	1.2	DEP		1.3X	233	9
2003	MAR	10	2156	44.52	19	18.83	155	13.42		7.58	33	.09	.4	.7	SF2	1.4X	117	3
2003	MAR	11	0049	27.33	19	10.92	155	28.47		9.44	21	.11	.5	1.6	LSW	1.1X	158	8
2003	MAR	11	0112	44.04	19	13.97	155	52.32		9.96	25	.10	1.1	.5	KON	1.6X	294	26
2003	MAR	11	0207	48.65	19	16.88	155	34.12		0.06	31	.11	.8	.3	LSW	1.6X	194	8
2003	MAR	11	0239	22.10	19	13.07	155	18.64	43.94	18	.09	1.2	1.6	DEP		1.4X	230	9
2003	MAR	11	1024	30.08	19	26.14	155	21.70	10.72	48	.12	.3	.5	KAO	F	3.0X	47	6
2003	MAR	11	1055	33.54	19	23.19	155	16.99		2.97	21	.11	.3	.2	SSC	1.4X	66	0
2003	MAR	11	1226	51.62	19	22.46	155	27.30		9.53	22	.10	.4	1.4	KAO	1.2X	80	8
2003	MAR	11	1514	9.69	19	19.67	155	12.87		5.78	36	.11	.4	.8	SF2	1.4X	126	5
2003	MAR	11	1845	57.48	19	49.27	156	27.78		1.62	18	.14	5.7	2.1	DIS	1.7X	286	79
2003	MAR	11	2000	37.90	19	25.35	155	19.33		3.00	20	.11	.3	.5	KAO	.9X	85	3
2003	MAR	11	2312	30.18	20	4.35	155	45.55	21.64	30	.10	.9	2.0	KOH		1.7X	150	7
2003	MAR	12	0359	25.29	19	35.64	156	4.84	37.06	19	.14	1.8	2.5	KON		1.3X	279	34
2003	MAR	12	0407	34.48	19	30.82	154	57.77	42.50	38	.11	.8	.9	LER		1.7X	208	11
2003	MAR	12	0452	55.85	19	45.94	155	13.86	33.07	45	.13	.6	1.2	KEA		2.1X	148	18
2003	MAR	12	0710	59.44	19	13.01	155	17.34	44.69	38	.09	.7	.8	DEP		1.9X	183	9
2003	MAR	12	0821	2.60	19	56.05	155	54.19	27.93	29	.10	1.1	1.9	KOH		1.5X	229	25
2003	MAR	12	1122	13.29	19	16.19	155	26.89		8.79	39	.11	.4	.8	LSW	1.7X	131	6
2003	MAR	12	1515	28.76	19	15.97	155	26.61		8.13	25	.11	.5	1.1	LSW	1.2X	170	6
2003	MAR	12	1552	6.34	19	29.72	155	54.20	16.38	21	.15	2.5	16.2	KON	-	1.4X	312	29
2003	MAR	12	1628	37.12	19	26.60	155	30.58	13.31	27	.11	.4	1.5	DML		1.5X	64	8
2003	MAR	12	1643	21.60	19	18.33	155	52.34		7.81	23	.14	1.1	.6	KON	1.4X	266	22
2003	MAR	12	1646	3.86	19	47.13	155	35.54		0.43	13	.13	.6	.8	KEA	# 1.8X	109	11
2003	MAR	12	1729	12.58	19	19.67	155	11.73		5.58	36	.12	.4	1.0	SF3	1.4X	97	6
2003	MAR	12	2058	44.33	19	19.14	155	4.17		5.03	29	.14	.8	2.1	SF5	1.3X	217	10
2003	MAR	12	2352	0.44	19	24.54	155	16.24	14.54	32	.09	.5	.3	DEP		1.0X	94	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAR	13	0304	56.97	19	18.93	155	13.23		7.49	28	.13	.6	.9	SF2	1.5X	80	4
2003	MAR	13	0612	21.87	19	24.19	155	17.19	15.26	19	.07	.9	.4	DEP		1.2X	129	2
2003	MAR	13	0744	6.64	19	19.95	155	12.93		6.11	27	.12	.5	.9	SF2	1.4X	147	5
2003	MAR	13	0913	11.12	19	23.29	155	26.70	11.23	24	.09	.5	1.7	KAO		1.4X	69	8
2003	MAR	13	1139	11.10	19	19.13	155	30.78	36.76	26	.07	.7	1.4	DML		1.6X	80	8
2003	MAR	13	1612	17.95	19	22.37	155	30.15	10.92	25	.10	.4	1.8	KAO		1.1X	86	13
2003	MAR	13	1650	52.67	19	43.57	155	44.39	24.49	18	.14	1.3	2.6	HUA		1.2X	239	24
2003	MAR	13	2101	24.68	20	3.97	156	4.57	24.78	23	.12	1.2	3.5	KOH		1.5X	285	32
2003	MAR	13	2102	43.68	19	12.33	155	21.08	44.92	20	.10	1.2	1.2	DEP		1.4U	266	11
2003	MAR	13	2247	13.59	19	11.85	155	27.54	7.18	22	.13	.6	1.1	LSW		1.2X	156	7
2003	MAR	13	2318	25.26	19	36.38	155	59.15	45.01	19	.09	2.0	1.4	KON		1.4X	290	18
2003	MAR	14	0016	9.73	19	12.70	155	29.26	7.80	21	.14	.7	1.1	LSW		1.5U	145	5
2003	MAR	14	0020	39.89	19	11.80	155	29.73	8.97	22	.10	.6	1.1	LSW		1.1X	147	6
2003	MAR	14	0119	53.16	19	14.43	155	33.05	10.00	28	.09	.4	.9	LSW		1.5X	122	5
2003	MAR	14	0542	9.53	19	17.88	155	12.49	9.29	29	.09	.5	.8	SF2		1.3X	188	2
2003	MAR	14	0601	21.50	19	19.79	155	8.30	7.62	29	.10	.6	.7	SF4		1.3X	182	6
2003	MAR	14	0616	12.41	19	47.57	154	59.13	44.74	43	.11	.9	1.1	KEA		2.2X	244	11
2003	MAR	14	0727	17.77	19	45.58	155	34.64	15.52	17	.10	.7	.8	KEA		1.4X	130	13
2003	MAR	14	0806	7.90	19	20.57	155	6.43	9.70	31	.08	.4	.4	SF4		1.3X	175	5
2003	MAR	14	1103	58.88	19	23.83	155	0.97	8.05	28	.12	.7	.6	SF5		1.2X	183	5
2003	MAR	14	1421	51.89	19	25.27	155	16.70	15.00	26	.11	.7	.4	DEP		1.0X	102	2
2003	MAR	14	1521	54.61	19	19.00	155	10.16	7.73	34	.09	.4	.6	SF3		1.1X	110	5
2003	MAR	14	1553	31.98	19	22.63	155	1.70	6.10	33	.14	.7	1.0	SF5		1.2X	196	5
2003	MAR	14	1732	40.56	19	3.04	156	9.96	4.72	31	.12	1.5	1.3	KON		2.1X	301	53
2003	MAR	14	1921	17.61	19	53.59	155	34.02	33.97	17	.09	1.1	1.6	KEA		1.5X	200	10
2003	MAR	14	1928	35.79	19	18.97	155	13.76	7.49	25	.10	.4	1.0	SF2		.9X	118	4
2003	MAR	14	2013	7.87	19	21.66	155	30.57	9.81	22	.07	.4	1.8	KAO		.8X	93	12
2003	MAR	15	0000	50.82	18	54.63	155	13.61	10.00	26	.11	1.2	.8	LOI		1.8X	269	41
2003	MAR	15	0608	36.23	19	30.27	155	55.08	13.78	25	.10	1.0	.5	KON		1.7X	260	22
2003	MAR	15	1357	54.32	19	30.15	155	29.05	6.19	16	.07	.4	1.4	MLO		.8X	80	4
2003	MAR	15	1745	35.51	19	46.47	156	8.80	8.25	20	.08	.9	1.3	HUA		1.7X	272	50
2003	MAR	15	1848	7.20	19	8.91	155	36.24	0.65	27	.11	.4	.3	LSW		1.3X	137	16
2003	MAR	15	2056	26.27	19	24.44	155	16.32	14.87	40	.10	.5	.3	DEP		1.7X	49	1
2003	MAR	16	0256	36.07	19	29.99	155	29.54	4.48	20	.10	.4	1.9	KAO		.9X	68	5
2003	MAR	16	0359	57.13	19	19.88	155	8.10	6.74	34	.11	.6	.7	SF4		1.4X	182	6
2003	MAR	16	1440	27.60	19	20.41	155	8.72	8.59	36	.09	.4	.6	SF4		1.4X	103	5
2003	MAR	16	1612	32.00	19	19.85	155	13.06	6.02	36	.12	.4	.9	SF2		1.2X	71	5
2003	MAR	16	1948	12.41	19	20.49	155	7.07	8.95	26	.11	.5	.7	SF4		.9X	136	5
2003	MAR	16	2239	22.28	19	13.06	155	18.65	41.10	33	.10	.8	1.2	DEP		1.8X	185	9
2003	MAR	17	0233	32.92	19	16.15	155	8.92	37.37	23	.10	1.7	1.2	DEP		1.3X	299	8
2003	MAR	17	0544	14.75	19	19.93	155	12.23	7.42	37	.12	.4	.6	SF3		1.1X	80	5
2003	MAR	17	0741	42.73	19	18.11	155	13.47	8.15	34	.08	.4	.4	SF2		1.4X	118	2
2003	MAR	17	0745	42.04	19	18.21	155	29.31	13.06	34	.09	.4	.8	DLS		1.6X	100	6
2003	MAR	17	1132	46.48	19	23.30	155	14.77	3.39	21	.07	.3	.4	SEC		2.0X	105	3
2003	MAR	17	1223	25.77	19	20.50	155	8.37	8.69	22	.05	.6	.8	SF4		1.2X	172	5

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAR	25	1103	40.24	19	20.19	155	12.37		3.50	24	.12	.7	2.0	SSF	1.3X	160	6
2003	MAR	25	1117	2.20	19	17.71	155	13.70		6.32	18	.10	.6	1.2	SF2	1.1X	117	1
2003	MAR	25	1122	3.08	19	19.15	155	9.45		7.50	38	.10	.4	.6	SF3	1.7X	100	4
2003	MAR	25	1335	15.00	19	19.48	155	12.01		5.65	29	.11	.5	1.2	SF3	1.6X	153	5
2003	MAR	25	1602	2.04	19	19.75	155	7.55		4.30	19	.12	.8	2.9	SSF	1.3X	210	7
2003	MAR	25	1711	27.83	19	31.29	155	43.71		9.74	17	.09	.7	.6	KON	1.3X	179	4
2003	MAR	25	2134	30.04	19	25.52	155	19.57		7.98	38	.11	.4	.7	KAO	2.0X	51	3
2003	MAR	25	2204	31.92	19	19.42	155	11.96		4.27	28	.11	.4	1.9	SSF	1.2X	165	5
2003	MAR	26	0443	53.57	19	12.96	155	8.68		42.03	28	.10	1.3	.8	DEP	1.6X	271	11
2003	MAR	26	0811	58.73	19	15.81	155	22.83		8.62	36	.11	.5	1.0	SWR	1.8X	182	8
2003	MAR	26	1213	33.38	18	59.33	155	27.50		38.00	34	.07	.9	1.4	DLS	2.0X	228	22
2003	MAR	26	2108	25.44	19	12.01	155	16.16		45.63	28	.08	.9	1.1	DEP	1.4X	233	10
2003	MAR	26	2144	14.63	19	22.80	155	29.97		7.40	21	.07	.4	2.3	KAO	.9X	80	13
2003	MAR	26	2350	34.00	19	22.30	155	17.98		31.91	33	.08	.7	.8	DEP	1.6X	53	3
2003	MAR	27	0014	58.43	19	25.28	155	20.67		5.88	21	.11	.4	1.4	KAO	1.0X	84	3
2003	MAR	27	1025	4.68	19	19.59	155	8.88		6.67	25	.09	.8	.9	SF4	1.8X	197	6
2003	MAR	27	1217	56.83	19	22.27	155	16.36		30.76	38	.09	.7	.7	DEP	1.6X	76	1
2003	MAR	27	1542	38.95	19	12.68	155	18.01		41.48	35	.10	.9	1.1	DEP	1.7X	183	10
2003	MAR	27	1616	1.69	19	17.06	155	29.75		8.77	30	.10	.4	1.1	LSW	1.4X	100	4
2003	MAR	27	1644	29.39	19	22.15	155	30.06		10.07	27	.07	.4	1.8	KAO	1.3X	85	12
2003	MAR	27	1800	55.45	19	12.62	155	17.68		42.99	23	.09	1.1	1.2	DEP	1.4X	240	10
2003	MAR	27	2001	42.97	19	19.48	155	8.81		8.33	35	.09	.4	.6	SF4	1.5X	182	7
2003	MAR	27	2209	19.30	19	20.25	155	9.63		8.68	25	.06	.5	.6	SF3	1.1X	165	5
2003	MAR	27	2227	37.39	19	35.32	156	6.47		43.91	39	.09	.9	1.3	KON	2.1X	244	37
2003	MAR	27	2249	40.10	19	11.58	155	49.08		12.41	22	.11	1.3	.5	KON	1.4X	223	24
2003	MAR	28	0420	17.23	19	24.31	155	29.19		11.15	19	.07	.5	1.7	KAO	.9X	129	12
2003	MAR	28	0540	59.36	19	25.07	155	37.56		2.78	30	.11	.3	.4	MLO	2.2X	107	1
2003	MAR	28	0803	41.19	19	18.53	155	23.44		32.15	40	.11	.7	.9	DEP	1.9X	121	3
2003	MAR	28	0918	52.53	19	23.23	155	30.35		11.19	29	.08	.4	1.6	KAO	1.3X	81	12
2003	MAR	28	1355	8.97	19	13.20	155	17.77		42.30	41	.09	.8	.8	DEP	2.1X	181	9
2003	MAR	28	1952	22.71	19	19.60	155	7.45		8.02	40	.10	.5	.4	SF4	1.8X	190	7
2003	MAR	28	2345	4.48	19	20.20	155	12.99		6.09	30	.12	.4	.9	SF2	1.3X	131	4
2003	MAR	29	0232	36.27	19	12.75	155	18.49		42.37	26	.09	.8	1.1	DEP	1.3X	189	10
2003	MAR	29	0441	9.59	19	49.11	155	52.73		15.45	21	.13	1.0	1.2	HUA	1.4X	216	23
2003	MAR	29	0743	30.66	19	24.91	155	29.45		11.73	21	.07	.4	1.8	KAO	1.0X	67	11
2003	MAR	29	0805	15.65	19	12.63	155	18.13		41.12	40	.10	.8	1.0	DEP	1.8X	182	10
2003	MAR	29	1150	20.40	19	1.02	155	27.56		34.98	23	.07	1.0	1.5	DLS	1.2X	222	23
2003	MAR	29	1402	21.65	19	12.38	155	18.01		42.38	29	.08	.9	1.0	DEP	1.6X	196	10
2003	MAR	29	1506	30.68	19	20.51	155	6.18		7.73	40	.09	.5	.4	SF4	1.8X	188	6
2003	MAR	29	1749	59.08	19	20.04	155	7.75		8.43	36	.09	.7	.5	SF4	1.9X	182	6
2003	MAR	30	0003	54.97	19	20.41	155	24.59		10.45	35	.12	.4	.9	SWR	1.4X	112	2
2003	MAR	30	0403	58.98	19	25.01	155	19.37		7.33	38	.12	.4	.6	KAO	1.9X	44	2
2003	MAR	30	0453	13.79	19	13.22	155	17.85		43.47	33	.10	1.0	1.2	DEP	1.8X	224	9
2003	MAR	30	1218	52.64	18	58.53	155	28.45		16.15	24	.11	3.1	12.5	DLS	- 1.4X	296	40
2003	MAR	30	1259	23.92	19	11.76	155	28.98		9.60	34	.12	.7	1.0	LSW	1.7X	243	6

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAR	17	1235	31.75	19	20.88	155	43.71		10.12	26	.11	.8	.9	KON	1.5X	234	6
2003	MAR	17	1311	13.68	19	21.42	155	42.95		10.43	23	.13	.8	.9	MLO	1.3X	226	5
2003	MAR	17	1612	30.44	19	17.12	155	19.01		12.30	40	.09	.3	.3	SWR	1.9X	138	2
2003	MAR	17	2059	26.94	19	28.20	154	53.07		3.48	27	.15	.9	1.9	SLE	F 1.9X	188	6
2003	MAR	17	2213	40.08	19	10.58	155	33.77		6.94	22	.09	.9	2.0	LSW	1.4X	260	10
2003	MAR	17	2240	1.29	20	8.34	155	46.97		26.08	22	.10	1.1	1.2	KOH	1.6X	302	1
2003	MAR	18	0118	7.92	19	23.46	155	16.70		3.11	23	.09	.3	.2	SSC	1.6X	80	0
2003	MAR	18	0545	43.36	20	6.80	154	45.80		7.36	22	.11	1.3	.6	KEA	1.9X	309	53
2003	MAR	18	0650	4.46	19	22.16	155	30.48		9.79	18	.10	.5	1.9	KAO	1.1X	89	13
2003	MAR	18	0852	23.51	19	28.60	155	28.13		5.73	21	.11	.4	2.4	KAO	1.2X	68	6
2003	MAR	18	1239	10.53	19	27.33	155	26.12		1.15	16	.08	.3	.5	KAO	.9X	97	7
2003	MAR	18	1739	23.69	19	25.14	155	29.16		11.24	30	.08	.4	1.4	KAO	1.3X	65	12
2003	MAR	18	2108	11.18	19	21.80	155	17.98		3.35	17	.09	.3	.6	SWR	1.2X	66	3
2003	MAR	18	2227	16.31	19	19.75	155	7.45		6.76	38	.09	.4	.6	SF4	1.6X	136	5
2003	MAR	18	2302	33.66	19	17.74	155	13.11		6.16	32	.08	.4	.8	SF2	1.6X	112	1
2003	MAR	19	0211	44.02	19	31.14	155	22.72		15.68	22	.09	.8	.8	DML	1.4X	169	3
2003	MAR	19	1914	21.64	19	13.93	155	6.12		40.74	34	.09	1.0	.9	DEP	1.5X	241	14
2003	MAR	19	2132	54.86	19	23.07	155	1.77		2.80	19	.09	.6	.5	SSF	1.2X	188	5
2003	MAR	20	0715	4.84	19	26.97	155	29.24		11.70	19	.08	.4	1.7	KAO	1.2X	57	10
2003	MAR	20	1727	58.26	19	27.96	154	54.72		1.16	31	.16	2.1	.9	SLE	F 2.2X	259	9
2003	MAR	20	2113	41.10	19	19.28	155	8.06		6.10	33	.12	.6	1.2	SF4	1.4X	191	7
2003	MAR	20	2136	31.68	19	22.53	155	14.20		3.38	22	.11	.5	.4	SEC	1.7X	127	2
2003	MAR	20	2152	56.43	19	31.72	155	33.73		15.72	25	.12	.4	.5	DML	1.5X	85	2
2003	MAR	21	0002	12.14	19	19.92	155	8.55		8.53	15	.09	.7	1.3	SF4	1.5X	179	6
2003	MAR	21	0229	2.76	19	12.66	155	19.98		43.29	40	.08	.9	.7	DEP	1.8X	227	10
2003	MAR	21	0514	14.32	19	23.42	155	14.72		3.38	35	.11	.3	.3	SEC	2.4X	52	3
2003	MAR	21	0606	0.39	19	18.33	155	12.89		8.76	32	.11	.4	.5	SF2	1.4X	140	3
2003	MAR	21	1233	40.06	19	18.78	155	13.05		8.44	36	.10	.5	.6	SF2	1.6X	137	3
2003	MAR	21	1243	50.92	19	19.98	155	7.71		4.94	26	.09	.6	1.9	SSF	1.5X	204	6
2003	MAR	21	1350	12.80	18	46.55	156	48.31		16.90	30	.11	1.7	15.5	DIS	- 2.8X	317	122
2003	MAR	21	1625	39.30	19	21.26	155	45.33		11.67	23	.13	.7	.6	KON	1.4X	174	9
2003	MAR	21	1652	49.92	19	13.44	155	27.79		38.58	20	.08	1.1	1.6	DLS	1.2X	230	5
2003	MAR	21	2220	9.98	19	44.30	156	8.26		37.74	42	.12	1.1	1.8	HUA	2.6X	251	47
2003	MAR	22	2006	11.17	19	25.94	155	30.29		9.06	25	.12	.4	1.9	KAO	1.1X	65	9
2003	MAR	22	2101	42.31	19	40.77	155	17.74		37.48	19	.09	1.1	1.2	KEA	1.3X	191	20
2003	MAR	22	2150	26.74	19	10.73	155	25.34		38.36	28	.13	1.1	1.5	DLS	1.8X	248	12
2003	MAR	22	2153	59.70	19	21.12	155	25.66		12.58	28	.10	.4	.9	KAO	1.3X	101	4
2003	MAR	23	0229	21.43	19	13.20	155	17.59		43.46	41	.09	.7	.8	DEP	2.2X	181	9
2003	MAR	23	0351	59.11	19	11.97	155	30.46		31.29	26	.08	1.0	1.3	DLS	1.3X	245	6
2003	MAR	23	0902	34.27	19	9.72	155	35.96		3.58	22	.11	1.9	3.3	LSW	1.3X	265	14
2003	MAR	23	1320	19.50	19	24.72	155	38.70		3.52	25	.09	.4	.4	MLO	1.9X	182	2
2003	MAR	23	1928	17.33	19	29.21	155	26.85		6.55	18	.09	.4	1.3	KAO	.9X	95	5
2003	MAR	24	1910	15.32	19	22.54	155	14.22		3.37	17	.09	.6	.4	SEC	1.4X	133	2
2003	MAR	25	0455	54.87	19	22.39	155	26.67		8.19	20	.10	.5	1.3	KAO	1.1X	81	7
2003	MAR	25	0917	20.65	19	57.43	155	17.14		13.44	11	.09	1.7	.6	KEA	1.4X	248	10

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	MAR	30	1312	8.29	19	21.93	155	26.95	12.32	38	.09	.4	.6	KAO		1.6X	88	7
2003	MAR	30	1902	10.79	19	27.08	155	29.39	11.80	26	.09	.4	1.3	KAO		1.5X	57	10
2003	MAR	30	2029	12.04	19	0.17	155	27.15	34.75	21	.08	1.3	2.0	DLS		1.3X	294	28
2003	MAR	31	0002	33.44	19	22.28	155	2.45	6.88	34	.13	.8	.6	SF5		1.3X	193	5
2003	MAR	31	0044	37.54	19	22.80	155	2.34	7.04	26	.13	1.0	.6	SF5		1.3X	198	4
2003	MAR	31	0048	3.79	19	12.48	155	20.69	45.53	35	.09	.8	.9	DEP		1.5X	229	11
2003	MAR	31	0140	25.58	19	21.58	155	2.74	7.12	33	.13	.6	.8	SF5		1.2X	199	6
2003	MAR	31	0352	6.63	19	45.45	155	46.91	11.45	36	.11	.9	.4	HUA		2.5X	256	28
2003	MAR	31	0512	34.58	20	3.63	155	33.38	32.50	21	.07	.9	1.3	KEA		1.6X	202	25
2003	MAR	31	0619	3.16	19	22.66	155	14.55	2.47	16	.08	.5	.3	SEC		1.5X	129	2
2003	MAR	31	0800	23.91	19	18.13	154	59.08	38.09	33	.09	1.3	.9	LER		1.8X	263	13
2003	MAR	31	1104	25.43	19	18.89	155	29.22	12.93	31	.10	.4	1.1	LSW		1.4X	96	7
2003	MAR	31	1330	56.17	19	20.07	155	8.18	8.44	38	.08	.4	.4	SF4		1.8X	179	6
2003	MAR	31	1606	55.02	19	13.30	155	17.83	41.69	39	.10	.9	1.0	DEP		2.0X	181	9
2003	MAR	31	1927	21.13	19	14.68	155	12.11	46.07	22	.09	1.4	1.1	DEP		1.6X	278	5
2003	APR	1	0141	33.45	19	9.19	155	28.40	27.75	28	.08	.7	1.3	DLS		1.3X	167	11
2003	APR	1	0434	2.69	19	20.78	155	13.06	9.20	44	.12	.4	.3	SF2	F	2.6X	114	3
2003	APR	1	0524	34.37	19	8.02	155	36.81	7.39	23	.12	.9	1.9	LSW		1.4X	273	18
2003	APR	1	0742	33.00	19	19.82	155	7.89	8.54	39	.09	.6	.6	SF4		2.3X	185	6
2003	APR	1	1105	42.10	19	20.22	155	13.34	5.31	29	.09	.4	1.0	SF2		1.0X	123	4
2003	APR	1	1623	19.94	19	20.83	155	18.64	39.24	21	.11	1.2	1.3	DEP		1.5X	121	5
2003	APR	1	1630	21.43	19	21.54	155	18.41	3.42	23	.12	.3	.6	SWR		1.3X	70	3
2003	APR	1	1657	49.16	19	58.61	155	4.71	35.72	47	.12	.8	1.3	KEA		2.9X	231	17
2003	APR	2	0232	13.69	19	12.13	156	16.77	5.74	44	.12	3.0	4.4	KON	#	3.0X	277	64
2003	APR	2	0305	55.38	19	18.70	155	29.41	0.26	24	.09	.3	.3	LSW		.9X	95	7
2003	APR	2	0313	24.67	19	21.24	155	4.49	6.14	24	.12	.9	.8	SF5		1.3X	190	6
2003	APR	2	1139	37.72	19	28.83	155	26.56	7.99	20	.08	.4	1.2	KAO		1.2X	90	6
2003	APR	2	1526	36.06	19	12.08	155	17.94	45.72	24	.09	1.2	1.1	DEP		1.6X	245	11
2003	APR	2	2214	52.57	19	19.19	155	7.67	7.05	30	.12	.6	.8	SF4		1.2X	194	8
2003	APR	3	0127	8.62	19	31.47	155	19.67	13.03	38	.10	.4	.6	DML		1.6X	59	7
2003	APR	3	0457	58.95	19	19.03	155	8.82	4.71	21	.10	.9	2.8	SSF		1.5X	232	7
2003	APR	3	0659	10.99	19	10.14	155	32.57	37.04	27	.07	.8	1.5	DLS		1.6X	145	10
2003	APR	3	0927	42.35	19	25.68	155	33.80	13.58	31	.08	.4	.9	DML		1.5X	74	5
2003	APR	3	0936	29.90	19	21.19	155	28.64	7.53	24	.12	.4	1.8	KAO		1.4X	85	10
2003	APR	3	0950	5.83	19	31.14	155	19.64	13.00	40	.12	.4	.6	DML		1.9X	59	7
2003	APR	3	1336	12.69	19	14.23	155	35.29	1.42	28	.11	.4	.4	LSW		1.6X	130	9
2003	APR	3	1611	6.71	19	47.46	155	35.88	12.52	21	.11	.5	.8	KEA		1.4X	110	10
2003	APR	3	1624	44.04	19	50.61	155	33.82	25.54	41	.11	.6	1.4	KEA		1.9X	112	10
2003	APR	3	1831	38.61	19	12.48	155	17.92	43.90	41	.09	.8	.9	DEP		2.2X	183	10
2003	APR	3	2102	41.61	19	18.47	155	21.68	2.18	33	.10	.4	.4	SWR		1.5X	148	4
2003	APR	3	2320	0.92	19	24.49	155	16.39	1.31	17	.09	.3	.3	SEC		1.4X	110	1
2003	APR	3	2348	24.76	19	26.71	155	28.59	8.71	22	.13	.5	1.4	KAO		1.0X	57	10
2003	APR	4	0800	48.61	19	7.08	155	28.09	28.17	25	.09	1.1	1.8	DLS		1.5X	268	15
2003	APR	4	0807	12.36	19	18.79	155	13.78	6.58	36	.09	.4	.7	SF2		1.6X	104	3
2003	APR	4	0808	22.64	19	46.33	155	31.46	14.69	18	.11	1.0	.5	KEA		1.3X	194	7

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	APR	4	1441	30.85	19	17.94	155	23.32	2.52	18	.09	.5	.7	SWR		1.4X	152	4
2003	APR	4	1444	28.70	19	17.65	155	23.66	1.92	19	.10	.5	.9	SWR		1.2X	155	5
2003	APR	4	1608	43.80	19	25.46	155	19.05	4.65	20	.11	.4	.8	KAO		1.3X	91	3
2003	APR	4	2201	56.61	19	15.37	155	31.19	38.86	41	.09	.7	1.0	DLS		1.9X	102	2
2003	APR	4	2214	59.09	19	20.77	155	5.96	7.33	30	.14	.7	.8	SF4		1.8X	186	6
2003	APR	4	2305	49.09	19	20.24	155	11.78	8.61	40	.10	.5	.4	SF3		2.3X	139	5
2003	APR	5	0301	24.16	19	12.67	155	17.80	43.51	29	.09	1.0	1.1	DEP		1.8X	239	10
2003	APR	5	0403	25.40	19	14.42	155	18.44	39.86	21	.07	1.1	1.2	DEP		1.4X	213	7
2003	APR	5	0546	56.60	19	12.90	155	17.53	43.04	25	.10	1.0	1.1	DEP		1.5X	238	10
2003	APR	5	1220	0.80	19	19.88	155	8.02	7.66	36	.09	.5	.7	SF4		1.6X	183	6
2003	APR	5	1429	52.04	19	20.42	155	24.70	9.18	25	.11	.5	.9	SWR		1.2X	111	2
2003	APR	5	1835	28.15	19	24.86	155	37.02	2.04	16	.13	.4	.4	MLO		.8X	90	2
2003	APR	5	1854	21.12	18	57.98	155	27.26	41.10	22	.06	1.3	1.9	DLS		1.4X	269	32
2003	APR	5	2110	13.22	19	20.29	155	26.73	9.98	32	.10	.4	1.0	KAO		1.2X	106	6
2003	APR	6	0127	36.81	19	26.16	155	24.30	10.47	26	.11	.4	1.2	KAO		1.3X	63	7
2003	APR	6	0243	43.49	19	5.72	155	27.45	29.77	20	.08	1.4	2.1	DLS		1.2X	274	18
2003	APR	6	0856	35.03	19	0.43	155	27.81	33.85	43	.11	.8	1.4	DLS		2.0X	215	22
2003	APR	6	0914	20.48	19	13.07	155	17.48	44.61	33	.08	.8	1.1	DEP		1.7X	182	9
2003	APR	6	1026	4.00	19	16.63	155	25.50	8.79	30	.11	.5	1.1	LSW		1.3X	163	8
2003	APR	6	1045	29.83	19	19.30	155	11.13	5.46	34	.11	.5	1.3	SF3		1.5X	162	6
2003	APR	6	1117	44.56	19	18.77	155	10.02	8.23	26	.09	.6	.9	SF3		1.2X	183	7
2003	APR	6	1854	48.81	19	56.51	155	20.75	27.74	30	.10	.8	1.3	KEA		1.5X	218	6
2003	APR	6	2127	24.90	19	25.88	155	19.01	7.20	44	.12	.4	.5	INT	F	3.3U	48	3
2003	APR	6	2142	50.83	19	25.70	155	19.18	6.22	20	.10	.5	.9	KAO		1.2X	93	3
2003	APR	6	2151	29.00	19	25.24	155	19.32	7.12	30	.11	.4	.8	KAO		1.8X	80	3
2003	APR	6	2341	48.66	19	25.84	155	18.99	7.41	42	.11	.4	.5	INT		2.3X	48	3
2003	APR	7	0026	40.22	19	10.98	155	37.49	0.04	22	.13	.5	.2	LSW		1.0X	145	15
2003	APR	7	0204	57.84	19	26.02	155	18.88	6.73	23	.11	.4	.8	INT		1.2X	92	3
2003	APR	7	0206	38.88	19	25.99	155	18.70	7.00	33	.10	.4	.6	INT		1.7X	64	2
2003	APR	7	0218	5.77	19	25.84	155	18.84	7.18	40	.12	.4	.6	INT		2.0X	47	2
2003	APR	7	0228	56.59	19	25.96	155	18.85	6.98	23	.12	.6	1.0	INT		1.3X	91	2
2003	APR	7	0234	20.18	19	26.01	155	18.62	7.51	34	.12	.4	.6	INT		1.8X	66	2
2003	APR	7	0241	45.82	19	25.77	155	18.82	6.95	31	.09	.4	.6	INT		1.6X	66	2
2003	APR	7	0257	9.98	19	25.88	155	18.61	7.19	20	.09	.6	.9	INT		1.3X	86	2
2003	APR	7	0306	14.94	19	26.16	155	18.60	7.11	35	.12	.4	.6	INT		2.0X	70	2
2003	APR	7	0323	58.08	19	25.81	155	18.76	6.17	25	.09	.5	.9	INT		1.0X	88	2
2003	APR	7	0759	56.13	19	12.66	155	17.86	43.71	44	.09	.7	.9	DEP		2.4X	183	10
2003	APR	7	0851	54.87	19	16.59	155	12.81	8.82	40	.10	.6	.6	SF2		1.8X	224	1
2003	APR	7	1043	50.34	19	16.78	155	12.81	8.90	31	.10	.6	.6	SF2		1.6X	223	1
2003	APR	7	1130	26.07	19	16.64	155	12.64	9.13	33	.10	.7	.6	SF2		1.7X	224	2
2003	APR	7	1419	48.24	19	21.15	155	29.86	9.58	21	.08	.4	2.1	KAO		1.5X	89	11
2003	APR	7	1907	51.68	19	25.43	155	19.56	7.94	32	.08	.4	.6	KAO		1.9X	91	3
2003	APR	7	2132	58.67	19	26.47	155	17.05	16.58	20	.08	1.3	.9	DEP		1.2X	149	2
2003	APR	7	2257	5.05	19	23.63	155	16.83	3.11	21	.09	.3	.3	SSC		1.6X	54	0
2003	APR	8	0022	54.67	19	8.12	155	36.12	14.27	14	.10	.8	.6	DLS		2.3X	159	17

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	APR	8	0108	19.68	19	25.65	155	30.88	10.43	35	.09	.4	.7	KAO		1.6X	49	9
2003	APR	8	0155	45.80	19	13.50	155	17.87	42.49	36	.10	.9	1.0	DEP		1.8X	179	8
2003	APR	8	0457	1.55	19	31.57	155	27.49	32.20	36	.09	.6	.8	DML		1.8X	94	1
2003	APR	8	0617	26.47	19	27.72	154	51.92	3.82	34	.13	1.0	1.1	SLE	F	2.5X	275	13
2003	APR	8	1433	47.34	19	1.56	155	27.31	35.91	28	.06	1.2	1.9	DLS		1.8X	289	25
2003	APR	8	1505	27.50	19	11.04	155	1.21	44.91	34	.10	1.2	.9	DEP		1.8X	290	24
2003	APR	8	1652	42.09	19	26.21	155	28.02	10.74	23	.10	.5	1.4	KAO		1.1X	57	11
2003	APR	8	1751	42.50	19	21.86	155	29.92	8.04	30	.08	.4	1.4	KAO		1.3X	86	12
2003	APR	8	1804	49.41	19	25.48	155	16.29	1.66	18	.11	.4	.3	SNC		1.6X	123	2
2003	APR	8	2246	21.75	19	30.52	155	45.22	9.84	16	.13	.9	1.2	KON		1.2X	131	1
2003	APR	8	2352	15.60	19	9.87	155	29.46	40.68	24	.10	.9	1.5	DLS		1.8X	256	10
2003	APR	8	2356	53.70	19	9.34	155	30.49	46.15	20	.09	1.0	1.6	DLS		1.4X	278	11
2003	APR	9	0954	47.22	19	17.27	155	20.25	11.68	32	.12	.6	.8	SWR		1.3X	165	3
2003	APR	9	2202	53.92	19	50.06	155	35.02	19.69	24	.08	.6	1.8	KEA		1.5X	146	8
2003	APR	9	2251	0.58	19	24.94	155	16.63	1.48	17	.09	.4	.2	SNC		1.3X	100	1
2003	APR	10	0032	27.45	19	13.00	155	33.53	5.73	16	.14	1.6	2.1	LSW		1.3X	246	7
2003	APR	10	0053	51.98	19	25.17	155	19.56	7.06	35	.10	.4	.6	KAO		1.7X	45	3
2003	APR	10	0101	6.14	19	25.97	155	19.12	7.79	25	.11	.5	.8	KAO		1.7X	71	3
2003	APR	10	0114	47.00	19	25.96	155	19.04	7.03	21	.11	.5	.9	KAO		1.7X	60	3
2003	APR	10	0429	57.21	18	59.95	155	27.45	37.73	22	.06	2.7	2.8	DLS		1.4X	229	23
2003	APR	10	0446	58.73	19	58.51	155	38.16	17.87	42	.12	.7	2.3	KOH	F	2.5X	148	13
2003	APR	10	0608	35.26	19	31.26	155	19.67	13.34	36	.10	.3	.6	DML		1.7X	59	7
2003	APR	10	0624	10.48	19	52.90	155	51.81	43.02	17	.09	1.0	1.2	HUA		1.4X	204	21
2003	APR	10	1132	4.80	19	12.60	155	17.47	44.96	32	.09	.9	.9	DEP		1.7X	228	10
2003	APR	10	1837	9.09	19	12.68	155	16.97	44.79	23	.12	1.1	1.4	DEP		1.4X	227	10
2003	APR	10	2035	20.65	19	12.99	155	17.61	44.44	39	.10	.8	1.0	DEP		2.0X	182	9
2003	APR	10	2104	21.71	19	8.77	155	28.88	8.03	21	.17	.9	1.8	LSW		1.2X	168	12
2003	APR	10	2105	13.94	19	10.68	155	42.42	7.17	21	.21	.9	3.3	LSW		1.4X	104	7
2003	APR	11	0029	46.72	19	11.79	155	24.73	37.58	37	.08	.9	1.1	DEP		1.4X	240	11
2003	APR	11	0357	51.69	19	20.19	155	12.91	7.63	35	.13	.4	.6	SF2		1.2X	133	4
2003	APR	11	0848	39.34	19	10.92	155	31.19	9.66	21	.11	.9	1.6	LSW		1.8X	252	8
2003	APR	11	1117	30.54	19	12.75	155	18.14	43.48	24	.09	1.0	1.5	DEP		1.5X	236	10
2003	APR	11	1448	8.39	19	12.95	155	30.28	30.26	23	.06	1.2	1.6	DLS		1.4X	238	4
2003	APR	11	1635	24.55	19	19.55	155	10.63	6.89	25	.11	.6	1.0	SF3		1.5X	175	6
2003	APR	11	1716	5.31	19	12.55	155	17.99	43.07	18	.07	1.4	2.0	DEP		1.6X	251	10
2003	APR	11	1804	41.96	18	59.66	155	27.29	38.65	38	.09	1.0	1.3	DLS		2.1X	221	23
2003	APR	12	0234	39.70	19	29.30	155	27.03	7.31	28	.11	.4	1.3	KAO		1.4X	67	5
2003	APR	12	0708	39.51	19	18.74	155	9.82	5.55	24	.10	.7	1.6	SF3		1.5X	200	7
2003	APR	12	1119	48.65	19	21.42	155	4.81	8.42	31	.09	.7	.6	SF5		1.9X	185	6
2003	APR	12	1355	33.10	19	9.94	155	41.36	11.95	21	.08	1.2	.4	LSW		1.9X	275	21
2003	APR	12	1634	32.46	19	12.92	155	18.22	42.98	36	.10	.9	1.0	DEP		1.9X	225	9
2003	APR	12	1927	26.03	19	12.47	155	17.87	43.16	36	.09	.7	.9	DEP		1.8X	183	10
2003	APR	12	2207	33.60	19	25.32	155	15.83	0.89	18	.11	.2	.3	SNC	L	1.6X	133	2
2003	APR	12	2342	1.68	19	20.00	155	13.52	4.03	28	.11	.4	1.2	SSF		1.2X	120	5
2003	APR	13	0037	24.29	19	59.57	155	36.84	31.18	19	.09	1.2	1.6	KOH		1.4X	272	16
2003	APR	13	0307	58.20	19	22.14	155	39.30	14.57	19	.11	.7	.6	DML		1.6X	99	2
2003	APR	13	0311	39.54	19	22.12	155	11.30	3.35	36	.11	.4	.4	SER		1.7X	128	2
2003	APR	13	1257	2.78	19	22.56	154	55.68	5.58	24	.12	.9	.8	LER		1.8X	268	7
2003	APR	13	1352	42.87	19	23.48	155	15.28	3.21	29	.10	.2	.3	SEC		1.9X	53	2
2003	APR	13	1352	58.84	19	23.77	155	15.01	3.43	26	.10	.3	.4	SEC		2.4X	107	3
2003	APR	13	1444	34.09	19	19.60	155	11.66	5.31	31	.08	.4	1.2	SF3		1.6X	149	6
2003	APR	13	1959	34.35	19	12.83	155	17.35	44.57	36	.09	.8	.7	DEP		1.9X	226	10
2003	APR	13	2056	39.78	19	2.83	155	24.48	35.35	28	.08	.9	1.5	LOI		1.7X	275	25
2003	APR	13	2339	54.91	19	16.51	155	13.19	8.45	26	.09	.6	.9	SF2		1.2X	244	1
2003	APR	14	0017	7.88	19	25.47	155	30.09	9.31	27	.10	.5	1.7	KAO		1.3X	66	10
2003	APR	14	0207	11.88	19	57.89	155	25.24	13.03	22	.11	1.0	.4	KEA		1.4X	239	12
2003	APR	14	0246	47.48	19	25.23	155	15.95	1.32	18	.12	.3	.4	SNC		.9X	129	2
2003	APR	14	0633	8.19	19	12.68	155	17.43	44.21	33	.09	1.0	.9	DEP		1.7X	228	10
2003	APR	14	0751	35.37	19	44.44	157	32.69	6.86	23	.12	9.6	11.6	DIS	-	3.0X	335	179
2003	APR	14	1147	38.55	19	18.77	155	9.93	3.74	25	.11	.5	1.6	SSF		1.5X	184	7
2003	APR	14	1550	11.36	19	11.58	155	18.26	43.79	17	.10	1.5	1.5	DEP		1.6X	257	13
2003	APR	15	1111	22.56	19	25.60	155	21.87	11.23	26	.08	.5	1.0	KAO		1.4X	109	5
2003	APR	15	2025	34.04	19	27.11	154	52.01	1.04	26	.12	2.1	1.0	SLE		1.6X	275	12
2003	APR	15	2117	54.19	19	23.27	155	16.77	3.16	12	.06	.7	.4	SSC		1.5X	122	0
2003	APR	15	2233	26.47	19	22.46	155	29.81	8.48	29	.08	.3	.8	KAO		1.3X	81	12
2003	APR	15	2233	42.82	19	22.43	155	29.78	8.43	29	.10	.4	.9	KAO		1.5X	82	12
2003	APR	16	0112	6.43	19	13.11	155	17.53	45.58	33	.09	1.0	1.1	DEP		2.2X	181	9
2003	APR	16	0419	56.03	19	22.88	155	2.50	7.81	27	.13	1.0	.5	SF5		1.6X	184	4
2003	APR	16	0449	16.93	19	20.58	155	17.00	41.37	21	.11	1.1	1.3	DEP		1.7X	91	6
2003	APR	16	0655	55.52	19	16.14	155	22.68	53.11	40	.10	.8	1.1	DEP		2.2X	141	8
2003	APR	16	0822	59.83	19	53.95	155	26.41	28.12	45	.11	.6	1.3	KEA		2.6X	149	10
2003	APR	16	0916	57.41	19	23.53	155	37.21	11.64	19	.12	.6	1.1	MLO		2.0X	91	2
2003	APR	16	1122	41.13	19	31.25	155	51.70	8.87	16	.18	2.0	.9	KON		1.3X	282	10
2003	APR	16	1309	44.39	19	19.26	155	10.24	7.79	32	.13	.6	.7	SF3		1.5X	173	6
2003	APR	16	1922	17.87	19	17.72	155	27.83	10.03	26	.11	.5	1.3	LSW		1.2X	128	6
2003	APR	16	2049	56.09	19	19.00	155	7.52	8.80	27	.11	.7	.7	SF4		1.2X	198	8
2003	APR	17	0036	38.91	19	17.75	155	29.76	6.05	28	.09	.6	2.3	LSW		1.3X	103	5
2003	APR	17	0756	9.75	19	12.51	155	18.06	42.29	34	.09	.9	1.1	DEP		1.7X	175	10
2003	APR	17	1233	22.24	19	23.52	155	16.73	3.00	30	.11	.4	.2	SSC		2.3X	66	0
2003	APR	17	1420	23.15	19	14.75	155	18.97	41.78	44	.09	.8	.8	DEP		1.9X	167	6
2003	APR	17	2306	38.37	19	18.96	155	15.38	5.33	28	.09	.3	1.1	SF1		1.5X	117	5
2003	APR	18	0137	57.80	19	16.76	155	34.31	0.85	25	.14	1.0	.6	LSW		1.3X	199	8
2003	APR	18	0401	0.08	19	19.58	155	7.32	6.36	38	.09	.5	.7	SF4		1.6X	192	7
2003	APR	18	1453	57.00	19	22.68	155	27.05	9.78	38	.11	.4	1.0	KAO		1.5X	77	8
2003	APR	18	1604	9.52	19	14.06	155	29.29	36.77	29	.07	.9	1.5	DLS		1.4X	228	2
2003	APR	18	1716	50.35	19	13.41	155	29.17	38.36	41	.08	.7	1.0	DLS		1.8X	141	4
2003	APR	18	2045	8.88	19	19.82	155	6.78	7.40	30	.12	.7	.9	SF4		1.3X	192	7
2003	APR	18	2331	16.88	19	20.11	155	11.77	7.71	28	.11	.5	.6	SF3		1.6X	141	5
2003	APR	19	1956	57.61	19	19.59	155	7.62	5.42	27	.12	.8	1.6	SF4		1.5X	190	7
2003	APR	20	0231	59.04	19	20.39	155	10.95	8.82	35	.09	.6	.4	SF3		1.8X	149	5

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	APR	20	0455	12.69	19	20.06	155	12.82	6.91	23	.11	.5	.8	SF2	1.4X	149	5
2003	APR	20	0506	37.80	19	32.10	156	24.04	40.81	17	.11	3.5	5.6	DIS	1.7X	317	61
2003	APR	20	0806	17.83	19	19.85	155	12.95	9.33	41	.12	.5	.4	SF2	2.4X	122	5
2003	APR	20	0926	8.80	19	22.68	155	51.66	11.38	16	.13	2.7	.7	KON	1.6X	284	18
2003	APR	20	1020	3.34	19	13.28	155	17.60	44.12	37	.10	.8	.9	DEP	1.8X	181	9
2003	APR	20	1036	22.26	19	19.79	155	30.03	7.74	29	.09	.4	2.0	KAO	1.3X	99	9
2003	APR	20	1314	30.06	19	21.91	155	25.33	10.92	26	.08	.4	1.1	KAO	1.1X	83	5
2003	APR	20	1536	49.34	18	59.31	155	27.34	38.70	41	.08	.8	1.2	DLS	2.0X	223	23
2003	APR	20	1600	1.50	19	18.58	155	13.28	8.61	40	.10	.4	.4	SF2	2.5X	123	3
2003	APR	20	1615	38.70	19	25.35	155	19.30	7.99	28	.10	.4	.8	KAO	1.4X	85	3
2003	APR	20	1626	31.22	19	18.66	155	13.28	4.57	31	.11	.5	1.6	SSF	1.5X	123	3
2003	APR	20	1631	22.79	19	18.34	155	13.13	8.51	36	.08	.4	.5	SF2	1.8X	131	3
2003	APR	20	1801	36.22	19	14.16	155	17.80	48.01	22	.08	1.2	1.7	DEP T	1.8X	220	7
2003	APR	20	1935	18.76	19	31.99	155	15.59	24.48	33	.10	.6	1.0	DEP	1.6X	89	8
2003	APR	20	2003	20.14	19	15.57	155	35.97	3.56	16	.12	1.6	13.0	LSW -	1.4X	233	10
2003	APR	20	2042	55.00	19	19.67	155	6.80	8.72	34	.09	.8	.5	SF4	1.8X	194	7
2003	APR	20	2052	12.93	19	19.24	155	6.55	6.01	32	.13	.8	1.2	SF4	1.7X	201	8
2003	APR	20	2345	59.41	19	21.74	155	5.04	8.30	37	.09	.7	.4	SF5	2.0X	180	5
2003	APR	20	2353	54.34	19	3.53	156	9.27	39.73	15	.08	2.8	5.2	KON	1.9X	310	61
2003	APR	21	0201	1.94	19	24.71	155	48.03	13.86	20	.10	1.0	.4	KON	1.4X	257	15
2003	APR	21	0658	26.02	19	12.29	155	20.80	43.16	41	.09	.7	1.0	DEP	1.8X	177	11
2003	APR	21	0730	4.34	19	19.83	155	7.62	8.59	37	.09	.5	.6	SF4	1.8X	187	6
2003	APR	21	0913	10.32	19	25.73	155	14.82	1.20	16	.08	.3	.7	SNC	1.5X	149	4
2003	APR	21	1043	43.85	20	48.20	154	49.27	5.30	15	.13	9.4	12.1	DIS -	2.4X	339	115
2003	APR	21	1417	14.59	19	2.07	155	12.20	31.31	19	.08	2.2	2.6	LOI	1.6X	302	28
2003	APR	21	1432	12.46	19	19.27	155	8.81	3.95	33	.12	.6	2.0	SSF	1.7X	186	7
2003	APR	21	1851	30.43	19	24.36	155	16.90	1.42	18	.10	.3	.2	SSC	1.6X	100	1
2003	APR	21	2005	5.83	19	28.73	155	27.02	12.11	38	.11	.3	.5	KAO	2.6X	57	6
2003	APR	22	0102	24.80	19	33.18	155	55.23	28.08	18	.12	1.8	2.4	KON	1.6X	260	17
2003	APR	22	0629	52.02	19	24.88	155	36.79	1.90	13	.11	.4	.5	MLO	1.1X	95	2
2003	APR	22	0845	59.10	19	20.45	155	11.60	6.98	28	.12	.6	.8	SF3	1.4X	147	5
2003	APR	22	1408	7.33	19	20.48	155	3.80	6.12	25	.13	1.0	1.5	SF5	1.4X	204	7
2003	APR	22	1813	25.01	19	12.70	155	17.64	44.90	32	.09	.9	1.2	DEP	2.0X	183	10
2003	APR	23	0809	9.37	19	54.64	155	27.78	28.24	31	.11	.6	1.3	KEA	1.8X	153	13
2003	APR	23	0909	56.41	19	21.70	155	4.82	6.33	25	.11	1.0	.9	SF5	1.6X	182	5
2003	APR	23	1342	17.24	19	24.09	155	16.94	14.60	36	.08	.6	.3	DEP	1.9X	91	1
2003	APR	24	0332	25.59	19	20.29	155	12.97	7.79	26	.09	.4	.6	SF2	1.3X	142	4
2003	APR	24	0648	9.56	19	15.32	155	37.50	0.40	21	.11	1.4	.5	LSW	1.1X	242	12
2003	APR	24	1110	41.35	19	20.59	155	10.51	8.24	32	.07	.5	.6	SF3	1.7X	161	4
2003	APR	24	1453	54.20	19	13.06	155	18.17	42.06	31	.09	1.0	1.1	DEP	2.0X	232	9
2003	APR	25	0003	50.10	19	13.12	155	17.32	44.69	32	.10	1.0	1.1	DEP	1.6X	237	9
2003	APR	25	0055	9.52	19	18.24	155	12.94	7.52	32	.08	.4	.6	SF2	1.6X	141	2
2003	APR	25	0117	3.94	19	22.80	155	0.21	8.76	37	.11	.9	.4	SF5	1.6X	215	5
2003	APR	25	0249	1.73	19	19.94	155	7.83	7.87	30	.08	.6	.8	SF4	1.2X	183	6
2003	APR	25	1739	57.92	19	18.29	155	28.41	8.50	28	.12	.4	1.0	LSW	1.6X	112	7

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	APR	26	0125	51.50	19	22.85	155	14.11	3.91	16	.06	.4	.4	SEC	1.7X	117	2
2003	APR	26	0232	32.44	19	12.70	155	17.82	43.15	20	.09	1.3	1.7	DEP	1.4X	239	10
2003	APR	26	0734	32.11	19	27.49	155	14.14	31.20	34	.11	.6	1.2	DEP	1.7X	61	4
2003	APR	26	0815	53.55	19	19.53	155	6.93	7.95	35	.10	.7	.6	SF4	1.5X	195	7
2003	APR	26	0826	5.93	19	23.45	155	47.69	13.42	30	.08	.8	.3	KON	2.3X	190	14
2003	APR	26	1428	56.80	19	20.60	155	7.81	8.06	25	.10	.7	.6	SF4	1.4X	175	5
2003	APR	26	2014	27.07	19	19.26	155	13.29	5.10	24	.12	.6	2.0	SF2	1.2X	145	4
2003	APR	27	0023	15.01	19	21.90	155	30.06	8.21	39	.10	.4	.8	KAO	1.8X	72	12
2003	APR	27	0114	21.12	19	11.03	155	31.55	7.93	17	.12	1.4	1.2	LSW	1.4X	253	8
2003	APR	27	0654	37.53	19	23.68	155	0.45	3.17	26	.12	.9	1.3	SSF	1.8X	194	4
2003	APR	27	0716	40.08	19	12.84	155	17.66	44.10	39	.08	.8	.9	DEP	2.1X	208	10
2003	APR	27	0719	14.52	19	19.21	155	9.76	6.97	28	.11	.8	1.0	SF3	1.5X	179	7
2003	APR	27	0722	38.18	19	22.66	155	0.54	0.05	18	.13	1.0	.6	SSF	1.5X	212	6
2003	APR	27	1443	48.17	19	21.26	155	17.29	30.57	42	.11	.6	.7	DEP	1.9X	62	2
2003	APR	27	1828	58.18	19	20.55	155	7.98	8.98	32	.11	.7	.5	SF4	1.7X	174	5
2003	APR	27	1909	17.47	19	12.46	155	25.79	35.70	35	.09	.7	1.1	DLS	1.8X	158	9
2003	APR	27	1939	19.34	19	49.68	155	36.50	15.99	25	.11	.6	1.5	KEA	1.5X	104	17
2003	APR	27	2126	8.98	19	13.70	155	17.65	45.50	35	.12	.8	1.1	DEP	2.0X	179	8
2003	APR	27	2136	37.22	19	21.77	155	13.00	2.95	20	.06	.4	.3	SER	1.4X	113	2
2003	APR	27	2219	15.63	19	27.24	155	14.42	31.65	47	.12	.5	.9	DEP	2.2X	60	4
2003	APR	28	0001	11.25	19	13.47	155	17.72	44.37	49	.11	.7	.9	DEP	2.6X	179	8
2003	APR	28	0414	19.80	19	45.59	155	23.31	16.99	16	.07	.9	1.7	KEA	1.2X	142	8
2003	APR	28	1747	1.57	19	10.89	155	18.52	41.89	33	.44	2.0	3.0	DEP	2.0X	189	13
2003	APR	28	2115	39.64	19	20.45	155	7.00	8.99	40	.11	.7	.5	SF4	2.1X	138	5
2003	APR	28	2258	57.39	19	13.47	155	17.20	45.26	49	.13	.7	1.0	DEP	2.6X	181	9
2003	APR	29	0245	4.49	19	24.98	155	15.95	0.71	16	.11	.2	.5	SNC	1.4X	124	2
2003	APR	29	0605	44.30	19	11.30	155	32.72	31.59	28	.07	.6	1.2	DLS	1.5X	139	8
2003	APR	29	0913	33.02	20	13.43	155	21.44	34.68	33	.11	1.3	1.8	KEA	2.1X	252	37
2003	APR	30	0254	48.59	19	30.24	155	2.69	39.73	39	.09	.9	.6	DEP	1.6X	197	11
2003	APR	30	0406	8.90	19	52.80	155	25.23	24.24	21	.08	.8	1.2	KEA	1.2X	197	8
2003	APR	30	0803	58.02	19	26.97	155	22.32	10.77	26	.10	.4	.9	KAO	1.2X	106	5
2003	APR	30	0805	7.85	19	23.65	155	10.85	41.97	34	.10	1.0	.8	DEP	1.7X	100	2
2003	APR	30	0819	13.44	19	21.60	155	18.53	2.79	17	.09	.3	.8	SWR	1.1X	71	3
2003	APR	30	1039	53.37	19	21.95	155	17.79	2.99	21	.11	.3	.4	SWR	1.2X	63	3
2003	APR	30	1114	43.31	19	21.54	155	4.41	6.62	35	.13	.7	.9	SF5	1.5X	187	5
2003	APR	30	1129	56.06	19	18.81	155	7.41	5.79	39	.12	.6	1.3	SF4	1.8X	201	8
2003	APR	30	2131	32.32	19	19.33	155	8.25	6.58	32	.09	.6	.9	SF4	1.3X	188	7
2003	APR	30	2340	47.01	19	10.82	155	38.84	1.08	35	.12	.4	.4	LSW	2.0X	112	13
2003	MAY	1	0434	3.56	19	12.19	155	16.82	46.52	29	.09	1.1	1.1	DEP	1.5X	250	11
2003	MAY	1	0853	30.40	18	58.79	155	27.93	39.97	24	.06	.9	1.5	DLS	1.5X	235	22
2003	MAY	1	1202	30.18	19	11.64	155	32.52	31.04	32	.07	.9	1.3	DLS	1.6X	251	8
2003	MAY	1	1203	7.81	19	19.08	155	8.19	6.72	38	.10	.5	.8	SF4	1.8X	192	8
2003	MAY	1	1759	37.26	19	13.56	155	27.67	7.27	34	.15	.5	.9	LSW	1.5X	145	5
2003	MAY	1	2252	30.53	18	59.17	155	27.20	38.77	42	.08	.8	1.1	DLS	2.1X	223	23
2003	MAY	1	2312	2.49	19	20.56	155	9.81	8.92	26	.09	.6	.7	SF3	1.1X	170	4

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	MAY	1	2341	56.60	19	26.95	155	17.19	13.74	30	.11	.6	.4	DEP			1.4X	117	3
2003	MAY	2	0507	15.31	19	26.15	155	21.72	11.18	35	.10	.4	.8	KAO			1.5X	85	6
2003	MAY	2	1644	31.74	19	29.61	155	25.72	3.73	19	.07	.3	.8	KAO			1.4X	110	4
2003	MAY	2	1843	27.84	19	18.35	155	12.49	9.97	30	.08	.5	.6	SF2			1.4X	154	3
2003	MAY	2	2259	47.85	19	21.33	155	18.52	3.04	32	.11	.3	.6	SWR			1.8X	59	5
2003	MAY	2	2318	14.14	19	19.38	155	7.77	7.76	34	.10	.4	.5	SF4			1.3X	191	7
2003	MAY	3	0335	56.15	19	37.31	155	12.38	12.71	33	.12	.4	.7	KEA			1.3X	98	19
2003	MAY	3	0401	39.64	19	12.90	155	17.57	44.55	38	.10	.8	1.0	DEP			2.1X	183	10
2003	MAY	3	0406	59.30	19	24.34	155	27.39	10.47	41	.11	.4	.7	KAO			1.7X	61	10
2003	MAY	3	1251	55.81	19	29.94	155	26.85	5.10	26	.11	.4	1.4	KAO			1.3X	110	4
2003	MAY	3	1257	9.40	19	28.81	155	25.07	12.50	36	.09	.5	.8	KAO			1.8X	66	4
2003	MAY	3	1907	27.60	19	19.84	155	7.00	7.66	29	.09	.6	.9	SF4			1.1X	190	6
2003	MAY	3	2108	25.47	19	25.20	155	18.65	5.74	33	.12	.4	.6	INT			1.8X	43	2
2003	MAY	3	2331	36.77	19	19.10	155	7.09	7.32	31	.11	.7	.7	SF4			1.6X	200	8
2003	MAY	3	2353	59.55	19	22.47	155	29.84	9.15	33	.08	.3	1.0	KAO			1.3X	81	12
2003	MAY	4	0052	7.56	19	10.78	155	34.47	6.25	27	.11	.9	1.1	LSW			1.7X	260	11
2003	MAY	4	0558	48.02	19	22.93	155	17.18	2.66	20	.09	.3	.2	SSC			1.6X	62	1
2003	MAY	4	0637	29.21	19	23.96	155	26.65	12.17	30	.10	.4	1.0	KAO			1.2X	62	9
2003	MAY	4	0715	57.62	19	9.04	155	38.17	1.23	22	.12	.6	.4	LSW			1.6X	150	18
2003	MAY	4	1114	49.66	18	31.16	154	38.40	27.92	30	.13	13.4	5.6	DIS	-		2.9X	328	105
2003	MAY	4	1152	34.18	20	17.26	155	34.51	36.40	36	.10	.9	1.7	KOH			2.3X	267	28
2003	MAY	4	1202	56.15	19	22.57	155	30.31	8.77	30	.05	.3	1.6	KAO			1.2X	85	13
2003	MAY	4	1631	56.42	19	22.37	155	30.21	7.44	38	.08	.3	1.2	KAO			1.5X	86	13
2003	MAY	4	1633	12.06	19	22.34	155	30.18	7.39	37	.07	.3	1.2	KAO			1.5X	68	13
2003	MAY	4	1740	48.36	19	22.22	155	30.46	11.50	27	.06	.4	1.6	KAO			1.1X	89	13
2003	MAY	4	2102	51.65	19	31.29	155	37.44	14.05	18	.11	.8	.5	DML			1.2X	152	4
2003	MAY	4	2140	45.84	19	17.32	155	15.81	8.35	27	.07	.5	.9	SF1			1.2X	187	4
2003	MAY	5	1055	53.20	19	13.31	155	17.75	43.06	36	.08	.8	.9	DEP			1.8X	181	9
2003	MAY	5	1146	39.76	19	17.58	155	32.71	0.55	28	.10	.6	.3	LSW			1.4X	164	6
2003	MAY	5	1149	8.25	19	17.84	155	32.51	0.53	21	.11	.6	.5	LSW			1.3X	157	7
2003	MAY	5	1151	1.17	19	20.32	155	19.52	3.37	18	.09	.4	.8	SWR			1.3X	109	4
2003	MAY	5	1255	41.21	19	13.34	155	17.53	44.86	24	.08	1.2	1.6	DEP			1.5X	233	9
2003	MAY	5	1829	25.85	19	0.88	155	27.67	35.97	29	.07	.9	1.5	DLS			1.5X	222	22
2003	MAY	5	1951	32.21	19	13.33	155	17.06	43.78	29	.09	.9	1.0	DEP			1.6X	224	9
2003	MAY	6	0211	48.29	19	29.05	154	52.96	1.90	22	.13	1.8	1.1	SLE	F		1.5X	316	32
2003	MAY	6	0214	54.52	19	27.91	154	55.15	0.09	19	.12	4.0	1.3	SLE	F	#	1.7X	306	8
2003	MAY	6	0408	16.62	19	12.92	155	17.65	43.77	37	.10	.8	.9	DEP			2.0X	182	9
2003	MAY	6	1149	4.06	19	25.68	155	18.94	6.34	31	.11	.4	.7	INT			1.7X	57	2
2003	MAY	6	1302	58.61	20	34.86	155	35.83	1.94	39	.11	4.0	2.0	DIS			2.5X	307	54
2003	MAY	6	1953	52.01	19	16.00	155	24.40	36.28	32	.10	.7	1.0	DEP			1.4X	138	8
2003	MAY	6	2230	15.15	19	13.02	155	17.37	45.81	42	.10	.8	1.0	DEP			2.3X	183	9
2003	MAY	7	0100	6.22	17	42.40	153	1.21	30.64	32	.17	3.5	2.7	DIS			3.5X	341	280
2003	MAY	7	0115	38.23	19	31.69	155	15.58	10.47	41	.13	.4	.7	GLN			1.8X	63	7
2003	MAY	7	0424	38.41	19	12.74	155	17.19	46.00	30	.10	1.0	1.2	DEP			1.5X	242	10
2003	MAY	7	0624	57.48	19	13.91	155	24.84	34.71	39	.10	.9	1.0	DEP			1.7X	211	10

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	MAY	7	0655	43.03	19	18.35	155	13.06	9.19	44	.11	.5	.4	SF2	F		2.5X	134	3
2003	MAY	7	1407	19.58	19	37.83	155	45.67	34.59	23	.09	1.1	1.2	KON			1.8X	234	13
2003	MAY	7	1630	52.66	19	20.24	155	5.44	7.76	38	.11	.6	.7	SF4			1.8X	196	7
2003	MAY	7	1955	46.45	19	24.48	155	38.51	3.66	18	.11	.5	.5	MLO			1.1X	105	1
2003	MAY	7	1957	29.87	19	12.85	155	17.91	43.85	29	.08	.9	1.0	DEP			1.6X	236	10
2003	MAY	7	2119	20.13	19	16.44	155	15.18	6.43	33	.08	.5	.9	SF1			1.8X	195	3
2003	MAY	7	2301	8.36	19	13.40	155	17.53	44.68	29	.10	.9	1.1	DEP			1.6X	223	9
2003	MAY	8	0034	16.14	19	18.35	155	14.51	8.55	36	.10	.4	.5	SF2			1.4X	115	3
2003	MAY	8	0146	5.66	19	12.50	155	18.29	42.08	32	.10	.9	1.1	DEP			1.7X	183	10
2003	MAY	8	0449	8.12	19	22.11	155	10.63	3.27	29	.08	.6	.3	SER			1.5X	133	1
2003	MAY	8	0652	56.24	19	12.34	155	17.83	45.10	27	.10	1.3	1.2	DEP			1.6X	243	10
2003	MAY	8	0948	2.80	19	19.68	155	11.48	7.19	39	.11	.5	.6	SF3			1.8X	151	6
2003	MAY	8	1021	32.99	19	25.16	155	31.34	12.71	35	.08	.4	.7	KAO			1.7X	73	8
2003	MAY	8	1207	42.96	19	13.58	155	17.69	41.75	35	.08	.9	.7	DEP			1.7X	221	8
2003	MAY	8	1616	25.24	19	14.78	155	26.25	8.26	35	.13	.5	1.0	LSW			1.2X	196	7
2003	MAY	8	1735	9.94	19	20.16	155	11.36	7.25	37	.12	.5	.7	SF3			1.2X	146	5
2003	MAY	8	2129	45.07	19	46.16	155	53.96	31.04	19	.09	1.3	1.8	HUA			1.2X	275	27
2003	MAY	8	2225	54.07	19	28.62	155	36.43	0.67	14	.14	.4	.2	MLO			1.6X	97	1
2003	MAY	9	0618	24.22	19	13.07	155	17.73	43.79	33	.09	.9	1.1	DEP			1.7X	181	9
2003	MAY	9	0826	28.58	19	22.52	155	29.87	8.76	27	.06	.4	2.0	KAO			1.0X	82	12
2003	MAY	9	1759	18.42	19	12.78	155	18.02	43.53	36	.09	.7	.9	DEP			1.6X	182	10
2003	MAY	9	1829	16.07	19	13.42	155	17.95	42.81	23	.08	1.0	1.2	DEP			1.5X	230	8
2003	MAY	10	0101	58.41	18	59.26	155	27.10	38.52	44	.09	.8	1.2	DLS			2.9X	223	23
2003	MAY	10	0224	36.58	19	19.43	155	12.51	6.78	30	.10	.4	.7	SF2			1.3X	135	5
2003	MAY	10	0427	5.84	19	13.56	155	17.83	43.32	38	.10	.9	.9	DEP			1.8X	179	8
2003	MAY	10	0449	47.05	19	26.25	155	29.55	9.56	21	.08	.4	1.8	KAO			1.2X	62	10
2003	MAY	10	0941	38.30	19	13.86	155	18.50	39.12	27	.11	1.0	1.2	DEP			1.5X	219	8
2003	MAY	10	1917	1.92	19	19.73	155	6.65	5.87	34	.14	.6	1.3	SF4			1.5X	194	7
2003	MAY	10	2007	20.61	19	29.24	155	23.20	3.43	25	.11	.6	.3	KAO			1.4X	112	1
2003	MAY	11	0004	49.80	19	18.76	154	58.94	38.12	40	.08	1.1	.7	LER			2.1X	262	12
2003	MAY	11	0202	52.74	19	24.23	155	16.50	1.54	19	.10	.4	.2	SEC			1.9X	105	1
2003	MAY	11	0309	12.35	19	24.49	155	30.21	10.75	30	.09	.4	1.1	KAO			1.3X	73	11
2003	MAY	11	0336	48.15	19	13.05	155	17.50	45.48	42	.10	.7	.7	DEP			2.0X	182	9
2003	MAY	11	0356	33.96	19	14.12	155	17.16	45.94	45	.12	.8	.7	DEP			2.6X	179	8
2003	MAY	11	1535	34.04	19	16.11	155	32.18	5.82	30	.12	.5	1.5	LSW			1.5X	101	4
2003	MAY	11	2214	54.46	19	30.46	155	20.22	13.85	36	.09	.4	.4	DML			1.2X	104	6
2003	MAY	11	2340	3.22	19	12.68	155	31.52	7.53	31	.13	.9	.8	LSW			1.3X	243	5
2003	MAY	11	2346	32.77	19	29.87	155	54.41	27.67	37	.09	.9	1.1	KON			1.9X	222	15
2003	MAY	12	0647	37.62	19	23.11	154	55.44	1.04	23	.10	.7	.4	SLE			1.7X	274	7
2003	MAY	12	1703	3.88	19	11.07	155	41.96	0.02	29	.17	.4	.3	LSW	#		1.9X	106	8
2003	MAY	12	2009	10.19	19	12.05	155	17.95	44.15	33	.10	1.0	1.1	DEP			1.7X	185	11
2003	MAY	13	1216	21.68	19	8.37	156	13.66	4.38	30	.11	1.3	.9	KON			2.5X	277	61
2003	MAY	13	1357	23.46	19	47.32	155	24.03	25.35	37	.11	.5	1.2	KEA			2.2X	126	6
2003	MAY	14	0127	32.73	18	56.05	155	33.58	38.24	29	.08	.9	1.3	DLS			2.0X	253	13
2003	MAY	14	0644	46.15	19	19.91	155	7.10	4.64	30	.10	.6	2.2	SSF			1.2X	189	6

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	MAY	14	0938	48.06	19	22.40	155	29.92	9.03	36	.09	.4	1.1	KAO	1.7X	83	12
2003	MAY	14	1102	5.60	19	17.78	155	12.87	8.85	37	.09	.4	.4	SF2	1.8X	156	2
2003	MAY	14	1109	30.49	19	17.72	155	12.86	7.78	33	.09	.5	.8	SF2	1.6X	159	2
2003	MAY	14	1137	11.27	19	12.88	155	17.51	44.21	41	.09	.8	.9	DEP	2.1X	183	10
2003	MAY	14	1358	35.50	19	18.10	155	31.78	1.39	26	.10	.5	.7	LSW	1.7X	141	6
2003	MAY	14	2342	23.52	19	20.53	155	13.09	7.98	23	.10	.5	.7	SF2	1.2X	125	4
2003	MAY	15	0320	58.16	19	20.04	155	12.49	5.30	23	.12	.6	1.5	SF2	1.3X	144	5
2003	MAY	15	0659	57.99	19	12.77	155	17.58	45.29	26	.09	1.2	1.4	DEP	1.8X	240	10
2003	MAY	15	0714	33.50	19	19.40	155	7.91	8.00	27	.08	.8	.7	SF4	1.4X	190	7
2003	MAY	15	0914	41.30	19	21.16	155	4.68	5.96	23	.10	.9	1.0	SF5	1.5X	190	6
2003	MAY	15	0955	25.12	19	23.05	155	14.56	3.46	22	.06	.3	.3	SEC	1.6X	132	3
2003	MAY	15	1351	5.44	19	20.63	155	4.21	7.49	35	.11	.6	.5	SF5	1.9X	199	7
2003	MAY	15	1834	7.00	19	44.36	155	41.47	18.51	39	.12	.5	1.7	KEA	2.3X	98	14
2003	MAY	15	2000	46.48	19	17.57	155	31.90	0.39	20	.11	.6	.3	LSW	1.2X	152	6
2003	MAY	16	1606	55.56	19	12.77	155	18.14	42.97	25	.09	1.1	1.1	DEP	1.5X	236	10
2003	MAY	16	2149	56.26	19	23.43	155	16.69	3.17	29	.09	.3	.2	SSC	2.0X	75	0
2003	MAY	17	0724	20.06	19	53.28	155	46.64	12.82	21	.12	1.5	.5	HUA	1.4X	271	13
2003	MAY	17	0947	28.72	19	26.84	154	48.42	12.11	24	.12	1.2	.6	LER	1.6X	287	18
2003	MAY	17	1600	17.49	19	19.58	155	7.69	6.56	29	.10	.6	1.0	SF4	1.3X	189	7
2003	MAY	17	1743	16.57	19	31.02	156	24.48	7.21	25	.13	8.41	10.8	DIS -	1.7X	322	63
2003	MAY	17	1807	2.61	19	16.26	155	5.86	39.12	33	.12	1.1	.8	DEP	1.9X	231	13
2003	MAY	17	1848	48.07	19	17.85	155	14.54	8.25	33	.11	.4	.6	SF1	1.4X	131	2
2003	MAY	18	0524	6.92	19	17.40	155	33.63	7.12	30	.10	.5	.9	LSW	1.6X	180	7
2003	MAY	18	1238	18.63	19	48.53	155	35.20	17.49	16	.07	.9	2.3	KEA	1.1X	123	10
2003	MAY	18	1318	3.70	19	48.89	156	10.77	6.78	18	.09	1.8	1.0	HUA	1.4X	319	55
2003	MAY	19	0120	20.03	19	24.96	155	16.96	12.35	19	.09	.7	.8	INT L	1.3X	117	1
2003	MAY	19	0259	19.33	19	25.98	155	24.97	6.71	24	.13	.4	1.9	KAO	1.0X	55	8
2003	MAY	19	0312	8.74	19	16.57	155	48.19	9.83	20	.12	1.4	1.0	KON	1.3X	274	17
2003	MAY	19	0403	41.03	19	19.48	155	10.32	7.01	36	.12	.5	.7	SF3	1.3X	169	6
2003	MAY	19	0449	58.59	19	20.35	155	5.35	6.98	33	.09	.6	.9	SF4	1.4X	195	7
2003	MAY	19	0458	48.74	19	14.52	155	33.53	7.92	38	.15	.5	.8	LSW F	2.9X	121	6
2003	MAY	19	0850	29.30	19	18.60	155	15.08	4.98	19	.14	.6	1.9	SSF	1.4X	122	4
2003	MAY	19	1757	40.71	19	47.15	155	47.23	15.03	35	.12	.7	.6	HUA	2.3X	154	12
2003	MAY	19	1956	41.75	19	24.95	155	30.73	11.64	21	.09	.5	1.5	KAO	1.3X	73	10
2003	MAY	19	2032	9.94	19	15.22	155	21.88	6.72	22	.12	.7	1.3	SWR	1.7X	151	8
2003	MAY	19	2147	12.97	19	5.41	155	32.65	46.20	21	.12	1.2	2.8	DLS T		172	18
2003	MAY	19	2331	26.20	19	9.43	155	28.05	30.27	20	.05	1.3	2.0	DLS	1.4X	256	11
2003	MAY	20	0400	20.01	19	20.96	155	7.87	9.95	45	.10	.4	.3	SF4	2.4X	118	4
2003	MAY	20	1943	52.92	18	56.86	155	29.90	41.99	39	.08	.9	1.2	DLS	2.5X	236	19
2003	MAY	20	2218	3.68	19	46.89	156	4.79	31.70	17	.12	2.3	3.5	HUA	1.6X	301	45
2003	MAY	20	2224	4.11	19	17.06	155	7.65	41.18	41	.11	.8	.9	DEP	2.3X	219	1
2003	MAY	21	0333	48.19	19	25.54	155	19.46	8.73	35	.13	.4	.7	KAO	1.9X	64	3
2003	MAY	21	1331	6.11	19	20.74	155	11.39	8.61	42	.10	.4	.3	SF3	2.1X	139	4
2003	MAY	21	1400	44.76	19	13.18	155	17.66	44.12	42	.10	1.0	.9	DEP	2.8X	181	9
2003	MAY	22	1114	10.29	20	0.70	155	17.07	27.61	26	.08	1.1	1.6	KEA F	1.7X	278	15
2003	MAY	23	0623	0.75	19	56.47	155	26.78	32.15	31	.10	.8	1.4	KEA	1.8X	176	12
2003	MAY	23	0920	53.15	19	18.89	155	13.56	8.81	41	.11	.4	.4	SF2	2.1X	111	3
2003	MAY	23	1254	59.81	19	16.31	155	26.84	11.52	31	.10	.4	1.0	LSW	1.5X	103	6
2003	MAY	23	2132	0.37	19	21.85	155	12.80	3.25	13	.05	.6	.5	SER	1.5X	119	2
2003	MAY	23	2136	32.16	19	57.77	155	43.74	11.01	26	.13	.8	1.1	KOH	2.0X	143	14
2003	MAY	23	2333	47.90	19	21.05	155	11.20	8.10	29	.12	.5	.6	SF3	1.8X	146	4
2003	MAY	24	0210	44.05	19	22.28	155	25.41	9.76	42	.11	.4	.5	KAO	1.7X	55	4
2003	MAY	24	0734	58.36	19	18.09	155	13.29	9.79	47	.11	.5	.3	SF2 F	3.9U	128	2
2003	MAY	24	0749	11.61	19	17.41	155	13.31	9.34	44	.12	.5	.4	SF2 F	2.8X	142	1
2003	MAY	24	0845	42.48	19	17.76	155	12.92	8.67	24	.08	.6	.9	SF2	1.8X	155	2
2003	MAY	24	1910	44.08	19	19.40	155	28.44	9.55	30	.10	.4	.7	KAO	1.2X	80	6
2003	MAY	24	2239	5.50	19	29.93	155	23.76	11.12	36	.11	.4	.6	KAO	1.5X	70	1
2003	MAY	24	2349	41.87	19	20.25	155	7.70	8.97	38	.08	.6	.5	SF4	1.9X	180	6
2003	MAY	25	0152	7.08	19	21.28	155	8.04	8.42	41	.11	.6	.4	SF4	1.5X	165	4
2003	MAY	25	0242	9.11	19	18.95	155	14.71	8.31	25	.10	.4	.7	SF1	1.4X	108	4
2003	MAY	25	0411	8.84	19	25.32	155	24.07	10.69	42	.09	.4	.6	KAO	1.7X	42	8
2003	MAY	25	0729	50.24	19	36.12	155	53.84	16.29	21	.14	2.0	1.2	KON F	2.2U	211	11
2003	MAY	25	1817	50.94	19	19.36	155	9.24	8.80	36	.09	.6	.6	SF3	1.7X	181	6
2003	MAY	26	0055	12.86	19	8.88	155	41.68	10.07	17	.09	.9	1.2	LSW	1.2X	195	19
2003	MAY	26	0500	11.26	19	30.31	155	26.78	6.18	35	.10	.3	.9	MLO	1.4X	49	3
2003	MAY	26	1549	59.85	19	12.77	155	17.58	43.89	40	.09	.9	1.0	DEP	2.1X	197	10
2003	MAY	26	1646	58.88	19	6.58	155	26.98	11.62	27	.11	.9	.4	LSW	1.5X	271	6
2003	MAY	26	1704	11.19	19	26.35	155	54.26	14.44	21	.13	1.5	.7	KON	1.2X	272	27
2003	MAY	26	1832	44.60	19	23.07	155	15.34	3.31	17	.09	.4	.3	SEC	1.7X	133	2
2003	MAY	27	0115	55.13	19	19.84	155	10.19	7.97	28	.07	.5	.7	SF3	1.2X	164	5
2003	MAY	27	0316	42.93	19	21.98	155	30.11	9.42	42	.09	.3	.6	KAO	1.9X	71	4
2003	MAY	27	0501	15.56	19	43.37	155	15.05	38.35	37	.10	.8	1.2	KEA	1.5X	165	23
2003	MAY	27	0534	33.32	19	14.85	155	35.03	8.03	40	.14	.4	.9	LSW	2.3X	127	9
2003	MAY	27	0545	12.63	19	14.95	155	35.33	0.24	27	.11	.8	.3	LSW	1.4X	129	9
2003	MAY	27	0948	28.71	19	13.19	155	17.66	43.55	40	.09	.8	.8	DEP	2.2X	181	9
2003	MAY	27	1001	51.63	19	13.41	155	38.04	1.04	23	.12	.4	.4	LSW	1.7X	148	14
2003	MAY	27	1326	29.37	19	26.62	154	49.54	4.95	37	.12	.6	.6	SLE F	2.5X	284	16
2003	MAY	28	0027	44.67	19	31.54	155	19.66	12.67	34	.10	.4	.6	MLO	1.3X	60	7
2003	MAY	28	0043	42.70	19	22.62	155	14.12	3.50	18	.08	.5	.4	SEC	1.7X	132	2
2003	MAY	28	0127	22.34	19	18.16	155	13.42	8.41	31	.08	.4	.5	SF2	1.3X	120	2
2003	MAY	28	0215	17.75	19	24.90	155	18.88	6.55	26	.08	.4	.7	INT	1.7X	57	2
2003	MAY	28	0247	34.23	19	12.10	155	37.66	6.65	31	.15	.5	1.3	LSW	1.8X	147	14
2003	MAY	28	0426	14.74	19	16.42	155	22.41	7.43	38	.13	.4	.9	SWR	1.6X	132	7
2003	MAY	28	0850	13.01	19	24.85	155	16.69	1.57	20	.11	.3	.1	SNC L	1.4X	108	1
2003	MAY	28	1526	38.44	19	19.95	155	10.27	7.23	33	.14	.7	.8	SF3	1.5X	174	5
2003	MAY	28	1532	8.91	19	20.14	155	10.44	9.31	32	.10	.5	.6	SF3	1.4X	168	5
2003	MAY	28	1958	13.53	19	18.93	155	27.42	10.93	33	.10	.4	.7	LSW	1.4X	85	7
2003	MAY	29	0512	12.39	19	20.87	155	4.28	7.06	31	.11	.7	.8	SF5	1.3X	196	6
2003	MAY	29	1140	12.57	19	19.72	155	10.76	6.71	32	.11	.5	.8	SF3	1.5X	160	6
2003	MAY	29	1244	43.09	19	11.79	155	17.30	46.42	27	.08	1.2	1.0	DEP	1.6X	252	12

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC				PREF	AZ	MIN	
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM		SEC	KM	KM	REMKS				MAG	GAP	DS	
2003	MAY	29	2309	3.12	19	59.81	156	45.35	6.96	28	.13	9.1	11.3	DIS	-	2.0X	320	102			
2003	MAY	30	0030	54.67	19	12.10	155	29.52	29.76	25	.09	1.1	1.2	DLS		1.0X	254	6			
2003	MAY	30	0210	0.55	19	29.25	155	27.13	7.16	43	.13	.3	1.0	KAO		2.1X	47	5			
2003	MAY	30	0555	1.19	19	57.33	155	44.99	8.21	22	.10	.7	.7	KOH		1.4X	153	14			
2003	MAY	30	0735	26.59	19	21.83	155	29.56	10.02	28	.07	.4	.9	KAO		1.3X	83	4			
2003	MAY	30	1408	42.97	19	13.00	155	33.88	2.69	32	.10	.4	.6	LSW		1.4X	122	8			
2003	MAY	30	1533	58.72	19	25.30	155	19.27	6.20	22	.09	.4	.9	KAO		1.1X	126	3			
2003	MAY	30	1625	23.99	19	33.62	155	52.36	10.00	19	.19	1.8	.9	KON		1.3X	306	13			
2003	MAY	30	2039	3.99	19	21.73	155	11.30	2.91	25	.09	.4	.3	SER		1.4X	130	3			
2003	MAY	30	2155	11.49	19	24.92	155	16.15	1.39	26	.10	.3	.3	SNC		1.8X	101	1			
2003	MAY	31	0148	46.82	19	21.23	155	4.75	6.29	31	.13	.8	1.1	SF5		1.3X	189	6			
2003	MAY	31	0511	53.74	19	29.30	155	51.00	11.00	20	.13	1.0	.6	KON		.9X	258	9			
2003	MAY	31	1323	50.30	19	20.88	155	13.17	9.52	45	.13	.4	.3	SF2		2.7X	113	3			
2003	MAY	31	2331	56.54	19	30.14	155	28.78	5.08	13	.11	.4	1.7	MLO		1.3X	78	4			
2003	JUN	1	0045	5.60	19	24.70	155	38.05	3.23	17	.09	.4	.4	MLO		.8X	99	1			
2003	JUN	1	0157	12.00	19	12.05	155	29.08	31.04	25	.07	1.0	1.4	DLS		1.3X	254	6			
2003	JUN	1	0821	23.99	19	25.78	155	28.45	9.27	25	.10	.4	.9	KAO		.9X	83	6			
2003	JUN	1	1421	10.58	19	19.20	155	10.95	5.01	30	.09	.5	1.9	SF3		1.3X	177	6			
2003	JUN	1	2018	40.94	19	19.87	155	8.42	7.60	39	.08	.5	.6	SF4		1.5X	180	6			
2003	JUN	2	0506	27.49	19	13.30	155	26.45	9.35	34	.13	.4	.7	LSW		1.3X	127	7			
2003	JUN	2	0509	15.32	19	21.02	155	24.04	13.54	36	.12	.4	.4	DEP		1.6X	76	2			
2003	JUN	2	0843	22.71	19	25.45	155	19.56	6.51	19	.09	.6	.9	KAO		1.7X	160	3			
2003	JUN	2	0949	18.47	19	37.64	156	5.40	39.16	34	.11	1.0	1.7	KON		2.0X	242	37			
2003	JUN	2	1035	43.71	19	24.46	155	17.22	16.86	41	.09	.4	.5	DEP		1.9X	48	1			
2003	JUN	2	1257	51.75	19	9.88	155	33.34	0.02	35	.15	.5	.3	LSW	#	1.9X	120	10			
2003	JUN	2	1410	36.91	19	15.41	155	17.48	43.87	17	.16	2.6	1.4	DEP		1.3X	240	5			
2003	JUN	2	1603	47.69	18	58.62	155	27.27	39.77	35	.08	1.0	1.3	DLS		1.7X	232	20			
2003	JUN	3	0211	30.11	19	42.58	156	3.58	44.16	35	.10	1.0	1.4	HUA		1.8X	239	38			
2003	JUN	3	1257	17.96	19	19.59	155	24.72	35.62	50	.10	.5	.9	DEP		2.8X	92	3			
2003	JUN	3	1444	48.64	19	38.72	155	25.00	25.21	33	.09	.7	1.0	KEA		1.4X	67	8			
2003	JUN	3	1504	9.84	19	21.30	154	59.24	6.27	25	.10	.9	1.3	LER		1.3X	246	7			
2003	JUN	3	1906	45.97	19	41.47	156	28.56	7.52	34	.13	4.3	5.3	DIS		2.2X	284	67			
2003	JUN	3	1928	0.36	19	12.47	155	38.14	4.20	18	.16	.6	6.4	LSW		1.4X	149	15			
2003	JUN	3	2009	35.10	19	10.78	155	33.20	0.02	24	.16	.5	.3	LSW	#	1.5X	119	10			
2003	JUN	3	2108	39.25	18	46.62	155	8.86	51.71	31	.09	1.1	2.0	LOI		1.9X	279	54			
2003	JUN	3	2232	49.63	19	49.86	155	58.45	15.51	21	.11	1.7	.8	HUA		1.3X	296	21			
2003	JUN	4	0023	35.01	19	20.31	155	12.02	8.57	42	.12	.4	.5	SF3		1.9X	134	6			
2003	JUN	4	0459	45.17	19	3.72	155	23.35	38.40	37	.08	.8	1.2	LOI		1.7X	207	13			
2003	JUN	4	0723	47.40	19	18.66	155	13.42	4.93	31	.13	.4	1.4	SSF		1.2X	117	3			
2003	JUN	4	1026	50.49	19	10.65	155	38.59	0.10	39	.15	.4	.2	LSW		2.0X	92	13			
2003	JUN	4	1643	38.38	19	20.13	155	7.93	7.34	34	.08	.5	.6	SF4		1.6X	200	6			
2003	JUN	5	0538	15.97	19	24.49	155	16.67	2.75	17	.08	.4	.3	SSC		1.0X	105	1			
2003	JUN	5	2322	12.52	20	2.72	155	18.14	14.56	23	.08	1.1	.5	KEA		1.5X	260	18			
2003	JUN	5	2350	16.64	19	10.39	155	12.18	49.13	43	.10	.9	.9	DEP		1.9X	207	12			
2003	JUN	6	0209	47.70	19	19.97	155	12.21	8.04	39	.13	.4	.5	SF3		1.1X	143	5			

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC				PREF	AZ	MIN	
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM		SEC	KM	KM	REMKS				MAG	GAP	DS	
2003	JUN	6	1056	21.33	19	24.71	155	36.77	1.83	16	.14	.4	.5	MLO		1.1X	105	2			
2003	JUN	6	1826	9.24	19	23.07	155	14.72	3.30	27	.08	.3	.3	SEC		1.8X	127	2			
2003	JUN	6	2157	7.28	19	21.56	155	12.77	2.37	27	.09	.3	.3	SER		1.5X	115	2			
2003	JUN	7	0219	37.28	19	45.74	155	46.03	17.25	19	.07	1.0	3.1	HUA		1.8U	227	16			
2003	JUN	7	0259	26.75	19	31.24	155	41.82	9.58	20	.12	.6	1.4	MLO		.9X	104	7			
2003	JUN	7	0431	33.26	19	26.66	155	54.39	7.19	26	.17	1.0	1.1	KON		1.1X	273	16			
2003	JUN	7	1055	16.77	19	30.37	155	48.82	7.80	20	.23	1.7	1.1	KON		1.2X	295	5			
2003	JUN	7	1539	6.48	19	42.56	155	28.31	19.95	28	.12	.6	1.3	KEA		1.3X	109	8			
2003	JUN	7	1812	47.15	19	24.29	155	37.42	2.21	18	.20	.5	.4	MLO		1.2X	78	1			
2003	JUN	7	1912	6.43	19	19.81	155	13.03	5.21	27	.13	.5	1.5	SF2		.9X	134	5			
2003	JUN	7	2244	13.46	19	20.21	155	11.34	7.45	38	.10	.5	.5	SF3		1.5X	146	5			
2003	JUN	8	0312	44.83	19	2.55	156	16.55	26.79	33	.08	1.4	4.5	KON		2.0X	302	73			
2003	JUN	8	0319	48.73	19	2.51	156	15.93	14.41	23	.10	5.8	8.9	KON	-	1.8X	306	74			
2003	JUN	8	0355	16.89	19	2.95	156	15.52	30.78	43	.08	1.1	3.0	KON	F	3.6X	301	71			
2003	JUN	8	0404	13.28	19	3.20	156	17.77	29.12	31	.10	1.1	4.1	KON		2.2X	288	67			
2003	JUN	8	0651	10.88	19	23.98	155	15.12	3.20	40	.10	.2	.3	SEC		2.4X	106	3			
2003	JUN	8	0855	45.82	19	19.76	155	8.40	7.13	32	.11	.6	.7	SF4		1.2X	182	6			
2003	JUN	8	0932	50.74	19	24.23	155	15.90	13.00	30	.14	.6	.4	INT		1.6X	60	1			
2003	JUN	8	1505	51.52	19	14.36	155	19.55	33.86	47	.10	.7	.8	DEP		2.6X	165	7			
2003	JUN	8	1516	22.90	19	14.43	155	31.52	33.68	44	.09	.6	.9	DLS		1.9X	103	3			
2003	JUN	8	1705	25.59	19	17.71	155	23.12	3.12	25	.09	.4	.7	SWR		.9X	155	5			
2003	JUN	8	2041	54.69	19	21.86	155	25.50	11.88	31	.10	.4	.8	KAO		1.2X	85	4			
2003	JUN	9	0319	52.58	19	22.20	155	24.71	13.69	40	.12	.4	.4	DML		1.4X	51	4			
2003	JUN	9	0419	19.20	19	29.77	155	23.80	11.14	35	.12	.4	.8	KAO		1.8X	52	1			
2003	JUN	9	0527	22.48	19	4.80	155	23.70	37.20	20	.06	1.4	2.0	LOI		.9X	212	11			
2003	JUN	9	0652	59.67	18	31.54	155	3.74	27.46	20	.12	15.4	6.8	DIS	-	2.1X	337	82			
2003	JUN	9	0935	46.39	19	20.41	155	12.79	9.55	30	.10	.5	.7	SF2		1.4X	127	4			
2003	JUN	9	1700	50.85	19	25.43	155	19.24	7.53	23	.08	.4	.8	KAO		1.1X	92	3			
2003	JUN	9	1755	8.74	19	28.72	154	52.20	0.59	19	.14	2.3	1.0	SLE		1.9X	273	13			
2003	JUN	9	1959	4.33	19	52.19	155	32.13	26.28	27	.09	.7	1.3	KEA		1.6X	177	13			
2003	JUN	9	2249	27.93	19	26.23	155	15.94	7.71	21	.12	.5	.7	INT	L	2.2X	103	3			
2003	JUN	9	2251	18.90	19	24.58	155	15.74	10.91	32	.14	.5	.4	INT	L	2.0X	51	2			
2003	JUN	10	1030	59.04	19	26.28	155	14.88	3.04	24	.14	.4	.6	SNC	L	1.5X	203	4			
2003	JUN	10	1257	42.67	19	21.70	155	18.42	2.98	27	.09	.2	.5	SWR		1.7X	57	3			
2003	JUN	10	1615	21.52	19	14.01	155	31.40	36.00	28	.07	.8	1.3	DLS		1.5X	170	3			
2003	JUN	11	0004	59.40	19	15.66	155	7.95	43.08	43	.11	.7	.8	DEP		1.9X	211	10			
2003	JUN	11	0236	5.35	19	24.27	155	16.22	12.00	25	.12	.6	.4	INT	L	2.3X	93	1			
2003	JUN	11	0731	37.01	19	18.37	155	16.30	34.52	30	.08	.8	1.1	DEP		1.8X	137	4			
2003	JUN	11	1718	51.24	19	20.71	155	5.73	6.00	34	.12	.6	1.0	SF4		1.5X	188	6			
2003	JUN	11	1719	28.87	19	21.15	155	5.66	6.48	31	.11	.7	.9	SF4		1.3X	183	5			
2003	JUN	11	2030	29.49	19	30.41	155	27.04	6.05	25	.10	.3	1.1	MLO		1.4X	117	3			
2003	JUN	11	2246	55.53	18	53.53	155	11.85	44.04	24	.09	1.5	2.7	LOI		1.7X	310	43			
2003	JUN	11	2358	13.13	19	23.62	155	17.00	8.56	20	.11	.6	.8	INT	L	1.4X	57	1			
2003	JUN	12	0439	30.96	19	27.30	155	15.68	5.88	19	.10	.7	.9	INT	L	1.2X	212	5			
2003	JUN	12	1209	47.89	19	13.05	155	33.41	7.21	29	.16	.6	1.8	LSW		1.4X	201	7			

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUN	12	1326	58.84	18	57.46	155	12.67	37.93	43	.09	.9	1.5	LOI		2.1X	249	35
2003	JUN	12	1425	17.25	19	25.11	155	19.39	8.17	30	.11	.4	.9	KAO		1.5X	81	3
2003	JUN	12	1955	39.39	19	15.98	155	31.27	7.91	29	.14	.5	1.1	LSW		1.5X	151	3
2003	JUN	13	0405	26.00	19	29.62	155	28.34	7.33	42	.11	.3	1.0	KAO		2.6X	47	5
2003	JUN	13	0406	54.08	19	29.51	155	28.36	5.10	41	.12	.3	1.8	KAO		1.9X	47	5
2003	JUN	13	0748	23.18	19	19.08	155	10.01	7.78	39	.09	.4	.4	SF3	F	1.7X	178	7
2003	JUN	13	1201	24.86	19	23.30	155	16.17	13.35	27	.14	.9	.6	DEP	L	1.9X	101	1
2003	JUN	13	1244	14.01	19	21.71	155	5.03	8.64	40	.08	.6	.4	SF5		1.9X	180	5
2003	JUN	13	2202	25.17	19	25.36	155	17.52	8.39	23	.11	.5	.7	INT	L	1.3X	92	0
2003	JUN	14	0341	23.12	18	55.46	155	11.69	47.63	46	.09	.8	1.1	LOI		2.5X	256	38
2003	JUN	14	0508	17.89	19	11.62	155	31.43	35.72	42	.08	.5	1.1	DLS		1.7X	107	7
2003	JUN	14	0906	33.36	19	25.94	155	18.78	6.88	31	.10	.4	.8	INT		2.0X	90	2
2003	JUN	14	1035	1.22	19	23.20	155	20.76	16.35	23	.13	.7	1.0	DML	T	2.1X	61	2
2003	JUN	14	1047	56.14	19	24.35	155	17.66	2.95	31	.13	.3	.3	SSC	L	1.5X	43	2
2003	JUN	14	1359	57.23	19	41.31	155	14.88	41.07	26	.10	.9	1.3	KEA		1.3X	110	23
2003	JUN	14	1704	29.41	19	9.79	155	31.90	0.01	21	.11	1.1	.3	LSW	#	1.6X	234	7
2003	JUN	15	0152	34.14	19	6.44	155	37.87	2.88	30	.12	1.2	1.6	LSW		1.8X	270	18
2003	JUN	15	0353	33.29	19	28.85	155	26.55	8.74	33	.11	.3	.9	KAO		1.4X	60	6
2003	JUN	15	0705	9.03	19	19.37	155	9.20	8.61	34	.10	.6	.8	SF3		1.6X	181	7
2003	JUN	15	1020	11.13	19	29.32	155	26.80	4.59	18	.14	.4	2.4	KAO		1.0X	98	5
2003	JUN	15	1056	24.26	19	25.66	155	16.69	3.75	19	.16	.6	.4	SNC	L	1.2X	114	1
2003	JUN	15	1707	0.14	19	26.37	155	30.28	9.83	38	.11	.4	.9	KAO		1.7X	63	9
2003	JUN	15	1721	27.22	19	23.24	155	17.40	2.15	21	.12	.3	.3	SSC		1.4X	49	1
2003	JUN	15	1908	18.00	19	20.50	155	45.34	10.90	37	.10	.6	.4	KON		2.0X	181	9
2003	JUN	15	2044	59.35	19	25.22	155	16.72	10.60	22	.13	.5	.5	INT	L	2.0X	87	1
2003	JUN	15	2045	55.69	19	25.36	155	16.29	9.26	26	.15	.4	.6	INT	L	1.9X	51	2
2003	JUN	15	2047	35.64	19	25.30	155	17.02	10.99	28	.13	.7	.5	INT	L	1.9X	83	1
2003	JUN	15	2048	44.61	19	24.41	155	16.48	6.19	15	.12	.5	.8	INT	L	1.5X	100	3
2003	JUN	15	2105	11.08	19	24.43	155	16.65	3.03	27	.11	.3	.2	SSC	L	1.7X	67	1
2003	JUN	15	2109	22.11	19	25.38	155	17.05	6.95	25	.11	.6	.5	INT	L	1.6X	109	1
2003	JUN	15	2202	52.05	19	23.32	155	16.90	3.06	41	.10	.3	.1	SSC	F	2.1X	46	0
2003	JUN	15	2247	5.50	19	36.88	155	7.91	14.85	32	.10	.6	.7	HIL		1.4X	178	23
2003	JUN	16	0412	51.82	19	25.00	155	15.31	0.06	29	.10	.2	.2	SNC	L	1.5X	120	3
2003	JUN	16	0650	58.52	19	24.09	154	55.34	1.36	30	.15	1.0	.5	SLE		1.8X	266	6
2003	JUN	16	1134	6.46	19	25.88	155	16.02	1.41	30	.13	.3	.4	SNC	L	1.8X	58	2
2003	JUN	16	1137	0.17	19	23.37	155	16.82	12.26	24	.13	.6	.4	INT	L	1.9X	61	1
2003	JUN	16	1322	41.12	19	18.32	155	44.84	10.64	24	.13	.8	1.0	KON		1.3X	189	10
2003	JUN	16	1437	51.72	19	20.73	155	4.34	8.20	41	.13	.6	.5	SF5		2.4X	194	7
2003	JUN	16	1637	58.53	19	25.32	155	16.29	1.57	20	.13	.6	.3	SNC	L	1.5X	160	1
2003	JUN	16	2147	43.93	19	25.18	155	16.93	10.07	29	.12	.4	.5	INT	L	2.0X	50	1
2003	JUN	16	2242	5.85	19	24.39	155	17.01	14.48	18	.11	.8	.8	DEP	L	1.6X	110	1
2003	JUN	16	2309	13.05	19	24.98	155	16.71	12.87	25	.13	.6	.7	INT	L	1.6X	101	1
2003	JUN	16	2334	58.55	19	24.88	155	16.77	14.38	20	.11	.8	.4	DEP	L	1.8X	107	0
2003	JUN	17	0003	27.69	19	25.18	155	15.49	12.68	27	.08	.6	.4	INT		1.6X	161	3
2003	JUN	17	0021	10.62	19	24.23	155	17.20	13.77	27	.13	.6	.5	DEP	L	1.9X	63	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUN	17	0046	54.46	19	25.83	155	15.16	6.38	27	.14	.7	.8	INT	L	1.5X	158	4
2003	JUN	17	0053	46.38	19	27.57	155	36.76	11.90	19	.08	.5	.7	MLO		1.4X	89	1
2003	JUN	17	0133	55.96	19	24.28	155	16.56	10.45	29	.11	.5	.6	INT	L	1.8X	88	1
2003	JUN	17	0420	22.14	19	24.00	155	18.66	4.24	29	.12	.4	.7	SSC	L	1.7X	63	3
2003	JUN	17	0438	9.53	19	24.23	155	29.69	10.05	30	.06	.3	.6	KAO		1.5X	72	5
2003	JUN	17	0541	15.05	19	25.09	155	16.86	9.48	22	.10	.7	.8	INT	L	1.9X	155	0
2003	JUN	17	0848	56.87	19	24.64	155	15.84	13.67	29	.11	.7	.5	DEP	L	2.0X	141	2
2003	JUN	17	1012	32.19	19	22.45	155	30.16	8.79	25	.08	.5	1.0	KAO		1.2X	85	4
2003	JUN	17	1116	5.36	19	24.21	155	16.30	8.85	26	.13	.5	.6	INT	L	1.8X	108	1
2003	JUN	17	1210	33.85	19	24.53	155	15.97	9.65	29	.14	.6	.6	INT	L	1.9X	118	2
2003	JUN	17	1242	30.66	19	21.06	155	4.77	7.47	31	.10	.6	.8	SF5		1.6X	190	6
2003	JUN	17	1411	27.49	19	20.05	155	8.18	9.72	45	.10	.6	.4	SF4		2.9X	176	6
2003	JUN	17	1608	19.01	19	18.43	155	12.56	8.07	40	.09	.4	.5	SF2		1.8X	150	3
2003	JUN	17	1733	11.97	19	24.75	155	17.24	10.35	38	.12	.4	.5	INT	L	2.2X	41	1
2003	JUN	17	1830	16.82	19	3.38	155	25.49	40.67	39	.08	1.0	1.4	DLS		2.3X	204	12
2003	JUN	17	1834	34.88	19	3.15	155	25.67	38.91	27	.07	.9	1.4	DLS		1.6X	205	12
2003	JUN	17	1851	2.85	19	13.25	155	34.16	3.94	36	.15	.6	1.5	LSW		2.0X	204	8
2003	JUN	17	2201	24.69	19	25.19	155	17.01	5.00	31	.13	.3	.4	SNC	L	1.9X	50	1
2003	JUN	18	0410	56.92	19	24.83	155	16.16	14.51	18	.08	.6	.7	DEP	L	1.6X	118	1
2003	JUN	18	0441	43.61	19	23.66	155	16.76	3.32	22	.08	.4	.2	SSC		1.5X	61	1
2003	JUN	18	0531	38.69	19	56.76	155	44.54	7.47	25	.11	.7	.5	KOH		1.8X	150	13
2003	JUN	18	0645	46.22	19	25.54	155	16.44	10.56	29	.14	.6	.7	INT	L	2.3X	88	2
2003	JUN	18	0647	19.88	19	24.91	155	16.53	7.21	33	.11	.4	.4	INT	L	1.9X	91	1
2003	JUN	18	1224	27.14	19	25.58	155	16.37	7.30	31	.10	.3	.5	INT	L	2.0X	57	2
2003	JUN	18	1225	17.13	19	23.96	155	17.30	7.08	26	.14	.5	.5	INT	L	2.0X	72	1
2003	JUN	18	1906	6.82	19	24.66	155	16.44	6.76	26	.09	.4	.3	INT	L	2.0X	53	1
2003	JUN	19	0358	7.15	19	25.92	155	16.11	12.81	28	.14	.8	.6	INT	L	2.3X	108	2
2003	JUN	19	0401	42.16	19	25.01	155	17.29	13.25	30	.13	.7	.6	DEP	L	2.3X	81	1
2003	JUN	19	0508	23.96	19	21.34	155	6.18	8.30	44	.11	.5	.5	SF4		2.8X	175	4
2003	JUN	19	0641	26.35	19	24.73	155	17.87	9.81	24	.14	.6	.7	INT	L	1.8X	78	1
2003	JUN	19	0902	8.69	19	20.31	155	5.90	5.13	34	.09	.6	1.8	SF4		1.5X	192	6
2003	JUN	19	0942	39.92	19	26.73	155	26.42	7.01	31	.13	.4	1.5	KAO		1.6X	51	8
2003	JUN	19	1441	26.20	19	25.52	155	15.77	5.66	25	.11	.5	.6	INT	L	1.7X	126	2
2003	JUN	19	1604	59.92	19	17.74	155	29.72	10.80	35	.09	.4	.8	LSW		1.4X	102	5
2003	JUN	19	1904	34.53	19	25.82	155	16.20	10.87	28	.10	.6	.5	INT	L	1.6X	110	2
2003	JUN	19	1907	14.61	19	25.92	155	17.23	10.25	31	.12	.4	.5	INT	L	2.2X	62	1
2003	JUN	19	2050	59.67	19	18.47	155	44.97	10.42	24	.11	.8	1.0	KON		1.1X	245	10
2003	JUN	19	2134	1.42	19	48.55	155	20.54	12.79	29	.12	.4	.3	KEA		1.5X	109	9
2003	JUN	19	2302	8.53	19	19.86	155	9.16	6.89	25	.11	.6	.9	SF3		1.3X	175	6
2003	JUN	20	0130	18.48	19	24.35	155	16.21	9.63	31	.13	.4	.5	INT	L	1.3X	52	1
2003	JUN	20	0526	4.23	19	25.31	155	16.75	11.15	22	.08	.6	.6	INT	L	1.0X	102	1
2003	JUN	20	0603	42.82	19	24.68	155	38.00	3.01	30	.12	.3	.4	MLO		2.0X	98	1
2003	JUN	20	0833	28.05	19	30.28	155	29.05	6.61	23	.12	.4	1.6	MLO		1.2X	70	4
2003	JUN	20	1421	41.58	19	25.20	155	17.20	6.86	35	.13	.4	.4	INT	L	2.1X	80	1
2003	JUN	20	1422	56.96	19	24.08	155	17.10	8.10	37	.13	.4	.5	INT	L	2.1X	48	1

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUN	20	1514	53.89	19	30.60	155	6.04	37.06	44	.10	.6	.9	DEP		1.9X	109	12
2003	JUN	20	1805	15.79	19	11.58	155	31.26	35.18	46	.08	.5	1.0	DLS		2.6X	93	7
2003	JUN	20	2113	43.50	19	46.25	155	26.38	24.95	36	.10	.5	1.3	KEA		1.5X	97	2
2003	JUN	20	2336	17.28	19	23.73	155	17.54	0.15	36	.18	.2	.2	SSC	L	1.9X	41	2
2003	JUN	20	2340	44.09	19	25.31	155	16.70	4.83	34	.16	.4	.4	SNC	L	2.1X	90	1
2003	JUN	20	2345	3.34	19	27.31	155	29.60	8.97	35	.14	.4	1.1	KAO		1.4X	57	9
2003	JUN	21	0451	12.49	19	24.09	155	16.09	7.93	33	.13	.4	.5	INT	L	1.9X	66	1
2003	JUN	21	0620	29.35	19	19.26	155	10.09	6.67	13	.05	.6	1.7	SF3		1.4X	175	6
2003	JUN	21	0706	55.11	19	11.31	155	31.29	35.55	44	.08	.6	1.1	DLS		2.1X	106	7
2003	JUN	21	1051	49.03	19	24.84	155	17.38	12.33	29	.15	.6	.7	INT	L	1.8X	68	1
2003	JUN	21	1244	55.94	19	24.21	155	16.51	3.72	38	.11	.3	.2	SSC	L	2.2X	65	1
2003	JUN	21	1556	27.47	19	49.14	156	13.56	38.15	21	.11	2.7	2.4	HUA		1.8X	335	43
2003	JUN	21	1733	23.07	19	24.59	155	17.25	12.39	35	.14	.4	.4	INT	L	2.2X	49	1
2003	JUN	21	1734	12.32	19	24.47	155	17.40	9.90	37	.13	.4	.4	INT	L	2.3X	46	1
2003	JUN	21	2315	24.25	19	23.91	155	16.84	5.23	31	.12	.4	.5	INT	L	2.1X	47	0
2003	JUN	22	0213	11.59	19	26.38	155	16.81	8.52	32	.14	.4	.6	INT	L	2.3X	57	2
2003	JUN	22	1128	18.58	19	15.05	155	24.70	39.83	26	.09	.9	1.0	DEP		1.2X	192	9
2003	JUN	22	1143	12.61	19	24.01	155	17.35	10.23	35	.12	.4	.4	INT	L	2.3X	47	1
2003	JUN	22	1148	41.63	19	24.91	155	16.26	14.47	31	.10	.6	.4	DEP	L	2.0X	138	1
2003	JUN	22	1153	18.69	19	9.75	155	6.24	49.72	40	.10	1.0	1.1	LOI		2.5X	246	18
2003	JUN	22	1542	32.02	19	24.68	155	16.73	11.50	37	.11	.4	.5	INT	L	2.1X	52	1
2003	JUN	22	1711	34.08	19	19.92	155	7.78	8.65	37	.09	.5	.6	SF4		2.0X	184	6
2003	JUN	22	1717	40.76	19	51.25	155	55.65	15.26	34	.09	1.9	2.7	HUA		2.3X	291	28
2003	JUN	22	1951	11.87	19	26.12	155	15.77	4.53	32	.12	.4	.6	SNC	L	2.1X	66	3
2003	JUN	22	2222	40.09	19	29.02	155	26.70	7.06	25	.14	.4	1.3	KAO		1.2X	78	6
2003	JUN	23	0208	0.24	19	24.00	155	17.07	6.05	39	.13	.3	.4	INT	L	2.1X	48	1
2003	JUN	23	0218	25.72	19	25.15	155	17.50	13.27	29	.11	.6	.4	DEP	L	1.6X	92	0
2003	JUN	23	0503	24.23	19	15.61	155	27.28	8.22	23	.14	.4	1.2	LSW		1.0X	103	5
2003	JUN	23	0650	56.33	19	13.80	155	20.29	42.34	28	.10	1.1	1.2	DEP		1.4X	177	8
2003	JUN	23	0752	1.82	19	25.52	155	17.96	6.22	35	.15	.4	.5	INT	L	2.1X	49	1
2003	JUN	23	1227	0.14	19	18.75	155	13.15	5.23	29	.11	.5	1.3	SF2		1.3X	126	3
2003	JUN	23	1430	33.93	19	55.69	155	34.80	31.22	32	.08	.6	1.3	KOH		2.1X	142	11
2003	JUN	23	1630	23.42	19	24.62	155	15.93	9.52	32	.15	.6	.5	INT	L	2.3X	100	2
2003	JUN	23	1850	18.83	19	25.29	155	17.50	6.59	26	.10	.5	.5	INT	L	1.3X	142	0
2003	JUN	23	1904	41.75	19	24.59	155	16.97	11.25	38	.09	.3	.4	INT	L	2.4X	52	1
2003	JUN	23	1906	11.26	19	25.08	155	16.18	12.70	35	.13	.5	.4	INT	L	2.2X	51	1
2003	JUN	23	1928	59.80	19	24.40	155	16.65	8.99	25	.12	.6	.6	INT	L	1.2X	137	1
2003	JUN	23	1941	2.33	19	25.08	155	15.91	8.10	26	.14	.7	.4	INT	L	1.2X	160	2
2003	JUN	23	1953	57.99	19	25.86	155	14.93	13.07	27	.14	.8	.5	DEP	L	1.6X	176	4
2003	JUN	23	2011	19.18	19	25.52	155	17.02	9.01	35	.13	.4	.5	INT	L	2.3X	83	1
2003	JUN	23	2016	15.16	19	25.40	155	16.72	8.51	21	.18	.9	.6	INT	L	1.8X	166	1
2003	JUN	23	2021	23.15	19	24.14	155	17.40	7.59	23	.13	.4	.7	INT	L	1.5X	75	1
2003	JUN	23	2042	17.55	19	24.12	155	16.96	10.51	25	.10	.5	.7	INT	L	1.6X	103	1
2003	JUN	23	2104	5.01	19	24.24	155	17.44	9.00	28	.09	.4	.6	INT		1.3X	70	1
2003	JUN	23	2126	38.55	19	24.22	155	17.72	9.22	24	.10	.5	.6	INT	L	1.5X	56	2
2003	JUN	23	2136	43.81	19	24.69	155	16.24	11.36	41	.12	.3	.4	INT	L	2.3X	50	1
2003	JUN	23	2227	54.67	19	24.13	155	15.61	2.96	25	.10	.3	.3	SEC		1.7X	101	2
2003	JUN	23	2229	45.71	19	24.24	155	15.66	3.10	33	.10	.2	.3	SEC		2.0X	50	2
2003	JUN	23	2300	59.71	19	25.71	155	16.67	8.13	39	.13	.4	.5	INT	L	2.2X	91	2
2003	JUN	23	2307	24.42	19	24.73	155	17.45	6.96	31	.14	.5	.6	INT	L	1.7X	41	1
2003	JUN	23	2359	58.15	19	23.97	155	16.82	12.59	27	.10	.5	.6	INT	L	1.4X	98	0
2003	JUN	24	0000	42.82	19	16.83	155	57.35	5.82	20	.09	1.1	.8	KON		1.1X	282	31
2003	JUN	24	0048	0.68	19	20.74	155	11.26	8.43	41	.12	.3	.3	SF3		2.0X	141	4
2003	JUN	24	0058	55.33	19	25.76	155	17.44	11.55	38	.14	.4	.5	INT	L	2.3X	65	1
2003	JUN	24	0100	39.90	19	24.48	155	17.31	12.18	32	.12	.5	.5	INT	L	2.2X	51	1
2003	JUN	24	0433	55.41	19	23.84	155	16.68	11.19	38	.15	.4	.4	INT	L	2.4X	43	0
2003	JUN	24	0511	29.35	19	25.50	155	16.66	6.61	35	.15	.4	.6	INT	L	2.0X	51	1
2003	JUN	24	0539	3.20	19	24.97	155	17.25	5.36	33	.13	.4	.5	INT	L	1.7X	76	0
2003	JUN	24	0548	52.47	19	22.77	155	29.93	9.89	35	.08	.3	.8	KAO		1.3X	81	4
2003	JUN	24	0805	7.31	19	22.75	155	17.53	2.91	32	.13	.2	.4	SSC	L	2.1X	45	3
2003	JUN	24	0818	58.39	18	56.61	155	27.60	42.31	28	.07	1.2	1.5	DLS		1.6X	249	23
2003	JUN	24	0941	32.40	19	25.70	155	16.64	11.37	30	.12	.5	.6	INT	L	2.1X	97	2
2003	JUN	24	1006	21.22	19	24.37	155	17.03	13.56	27	.14	.6	.9	DEP	L	1.6X	110	1
2003	JUN	24	1413	20.10	19	25.22	155	17.24	14.62	36	.13	.6	.4	DEP	L	2.3X	56	1
2003	JUN	24	1416	54.07	19	29.53	155	26.80	7.16	19	.09	.4	1.3	KAO		1.3X	103	5
2003	JUN	24	1438	21.59	19	25.45	155	16.08	12.58	30	.10	.6	.6	INT	L	2.0X	118	2
2003	JUN	24	1733	40.14	19	24.05	155	17.26	7.04	25	.11	.5	.6	INT	L	1.6X	84	1
2003	JUN	24	2011	48.37	19	23.50	155	17.44	10.94	31	.12	.5	.5	INT	L	1.6X	47	2
2003	JUN	24	2130	5.51	19	21.53	155	19.68	31.11	48	.12	.6	.8	DEP		2.3X	49	4
2003	JUN	24	2159	8.58	19	16.30	155	30.21	11.38	26	.10	.4	1.1	LSW		1.4X	124	2
2003	JUN	25	0134	21.98	19	25.85	155	16.54	11.46	35	.12	.4	.4	INT	L	2.1X	52	2
2003	JUN	25	0216	19.47	19	25.19	155	16.55	10.10	26	.11	.5	.6	INT	L	1.4X	104	1
2003	JUN	25	0816	56.36	19	20.29	155	4.81	4.36	35	.13	.6	2.7	SSF		1.6X	194	7
2003	JUN	25	1043	1.96	19	25.34	155	14.88	0.03	21	.20	.3	.3	SNC	L#	1.1X	140	4
2003	JUN	25	1112	16.93	19	13.02	155	20.40	42.80	21	.07	1.4	1.5	DEP		1.5X	237	10
2003	JUN	25	1416	11.27	19	23.92	155	16.42	7.01	22	.09	.4	.6	INT	L	1.4X	97	0
2003	JUN	25	1843	37.67	19	23.14	155	16.84	2.92	22	.08	.3	.2	SSC		1.3X	72	0
2003	JUN	25	1933	24.98	19	24.72	155	36.78	1.73	17	.12	.4	.4	MLO		1.4X	104	2
2003	JUN	25	2031	28.68	20	11.98	155	30.70	0.01	39	.13	2.5	.6	KEA	#	2.3X	294	39
2003	JUN	25	2230	6.00	19	25.68	155	16.45	5.82	35	.11	.4	.5	INT	L	2.0X	51	2
2003	JUN	26	0029	9.86	19	13.97	155	20.45	42.06	43	.09	.8	.9	DEP		2.0X	167	8
2003	JUN	26	0222	16.41	19	3.82	155	23.25	34.66	40	.09	.7	1.2	LOI		1.8X	207	13
2003	JUN	26	0425	26.69	19	16.98	155	12.61	6.53	33	.11	.5	.6	SF2		1.3X	226	2
2003	JUN	26	0542	5.08	19	16.82	155	12.58	8.13	33	.12	.5	.5	SF2		1.4X	208	2
2003	JUN	26	0721	20.68	19	13.85	155	33.26	5.21	29	.12	.4	2.3	LSW		1.7X	125	6
2003	JUN	26	1636	21.73	19	13.14	155	20.62	42.51	35	.10	.9	1.2	DEP		1.6X	173	10
2003	JUN	26	1721	30.44	19	15.65	155	4.61	45.99	49	.11	.7	.7	DEP	F	3.1X	214	15
2003	JUN	26	2311	52.91	19	48.60	155	55.93	11.88	30	.10	1.0	.5	HUA		2.1X	232	17
2003	JUN	27	0000	6.26	19	56.37	155	26.84	33.58	34	.10	.9	1.4	KEA		2.2X	174	12
2003	JUN	27	1345	49.75	19	11.91	155	26.74	2.22	36	.14	.3	.7	LSW		1.6X	138	5

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUN	28	0005	42.12	19	28.59	155	35.85	0.10	18	.17	.3	.2	MLO		1.5X	78	1
2003	JUN	28	0046	35.43	19	16.54	155	29.97	11.65	38	.10	.4	.6	LSW		1.9X	112	3
2003	JUN	28	0447	14.81	19	22.03	155	2.22	7.72	36	.13	.6	.5	SF5		1.5X	184	5
2003	JUN	28	0531	42.69	19	27.83	155	12.62	36.02	40	.10	.6	.9	DEP		1.5X	66	7
2003	JUN	28	1010	56.76	19	14.28	155	19.89	43.92	45	.11	.8	.9	DEP		2.3X	167	7
2003	JUN	28	1728	52.77	19	14.06	155	40.85	0.01	25	.20	2.3	.7	LSW	#	1.3X	260	14
2003	JUN	28	1831	55.33	19	17.12	155	12.65	8.37	36	.11	.5	.7	SF2		1.5X	205	1
2003	JUN	28	1905	29.00	19	16.03	155	29.45	12.08	25	.08	.4	1.1	LSW		1.4X	88	2
2003	JUN	28	2151	31.88	19	16.99	155	12.38	8.43	34	.12	.6	.7	SF2		1.3X	215	2
2003	JUN	29	0100	44.03	19	14.21	156	31.46	0.56	32	.13	6.5	1.9	DIS	#	2.0X	305	85
2003	JUN	29	0412	15.13	19	22.39	155	28.97	10.31	31	.09	.4	.7	KAO		1.2X	76	2
2003	JUN	29	0504	47.48	19	24.58	155	37.85	3.06	29	.14	.3	.4	MLO		1.8X	95	0
2003	JUN	29	0756	32.99	19	12.53	155	27.11	36.66	28	.07	.9	1.4	DLS		1.4X	124	6
2003	JUN	29	0759	34.69	19	12.82	155	27.29	34.58	32	.09	.8	1.2	DLS		1.5X	118	6
2003	JUN	29	0804	44.51	19	24.06	155	29.97	9.59	27	.06	.4	.8	KAO		1.3X	74	5
2003	JUN	29	0812	4.02	19	13.03	155	28.32	9.30	38	.19	.5	.9	LSW		1.9X	135	5
2003	JUN	29	1434	36.35	19	23.53	155	29.30	9.53	30	.09	.4	.8	KAO		1.1X	73	3
2003	JUN	29	1439	38.18	19	23.48	155	29.24	10.56	32	.10	.4	.9	KAO		1.2X	73	3
2003	JUN	29	1451	56.44	19	21.38	155	2.81	7.93	31	.11	.6	.5	SF5		1.5X	202	6
2003	JUN	30	0929	54.63	19	12.98	155	19.58	27.81	38	.09	.7	1.0	DEP		1.7X	192	9
2003	JUN	30	0930	59.87	19	20.34	155	8.06	8.22	43	.09	.4	.5	SF4		2.3X	177	6
2003	JUN	30	1050	0.69	19	29.06	155	26.99	7.58	26	.10	.4	1.2	KAO		1.4X	89	6
2003	JUN	30	1710	22.72	19	18.87	155	6.18	9.48	36	.08	.6	.5	SF4		1.8X	198	9
2003	JUN	30	1719	41.20	19	29.89	155	27.09	6.52	17	.12	.4	1.6	KAO		1.2X	105	4
2003	JUL	1	0254	42.70	19	16.43	155	30.57	11.60	38	.09	.4	.6	LSW		2.0X	92	3
2003	JUL	1	0444	56.75	19	14.03	155	20.30	43.28	41	.09	.8	1.0	DEP		2.1X	167	8
2003	JUL	1	1547	6.13	19	19.23	155	11.44	7.20	41	.10	.4	.5	SF3		1.6X	159	5
2003	JUL	1	1656	33.11	19	17.35	155	5.93	6.33	29	.15	.9	1.6	SF4		1.5X	224	11
2003	JUL	1	1815	3.78	19	17.24	155	6.12	7.84	32	.11	.7	1.0	SF4		1.3X	228	11
2003	JUL	1	1822	50.45	19	16.53	155	5.79	5.52	32	.10	.7	1.6	SF4		1.5X	230	13
2003	JUL	1	2009	37.32	19	18.87	155	7.29	9.29	41	.10	.5	.4	SF4		2.6X	193	8
2003	JUL	1	2103	17.91	19	17.28	155	6.65	8.41	32	.08	.5	.5	SF4		1.5X	225	11
2003	JUL	1	2116	31.88	19	17.53	155	6.12	9.29	22	.10	1.2	.7	SF4		1.4X	222	11
2003	JUL	1	2116	56.19	19	17.82	155	7.02	7.67	24	.09	.8	1.3	SF4		1.4X	216	10
2003	JUL	1	2117	26.19	19	18.09	155	6.69	8.38	20	.09	1.3	.9	SF4		1.3X	214	10
2003	JUL	1	2138	36.87	19	17.51	155	6.46	6.28	31	.12	.7	1.4	SF4		1.5X	221	11
2003	JUL	2	0000	34.28	19	22.53	155	5.01	6.53	26	.12	.8	.7	SF5		1.1X	185	4
2003	JUL	2	0022	26.20	19	22.69	155	5.31	8.05	41	.11	.6	.5	SF4		2.5X	166	4
2003	JUL	2	0626	25.61	19	17.96	155	23.12	4.51	44	.13	.4	1.2	SWR		2.8X	114	4
2003	JUL	2	0642	18.67	19	20.14	155	6.77	8.06	36	.12	.6	.7	SF4		1.8X	188	6
2003	JUL	2	0646	56.99	19	18.00	155	23.22	6.32	38	.13	.4	1.1	SWR		2.2X	113	4
2003	JUL	2	1128	36.17	19	25.59	155	30.15	11.78	25	.09	.4	1.1	KAO		1.3X	68	7
2003	JUL	2	1608	16.94	19	14.08	155	27.91	10.74	27	.17	.5	1.4	LSW		1.6X	117	4
2003	JUL	3	0305	41.86	19	25.67	155	30.13	11.65	38	.10	.4	.6	KAO		1.6X	67	7
2003	JUL	3	0324	1.89	19	19.36	155	7.14	6.45	36	.12	.7	.9	SF4		1.1X	195	7

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUL	3	0825	35.98	19	18.84	155	48.25	9.31	27	.13	1.2	.8	KON		1.3X	253	15
2003	JUL	3	1742	38.19	19	19.65	155	8.11	6.38	28	.10	.8	1.2	SF4		1.4X	185	7
2003	JUL	3	1829	1.75	19	24.71	155	17.50	6.15	18	.21	.7	.8	INT	L	1.5X	75	1
2003	JUL	3	1918	15.57	19	19.58	155	28.80	9.45	27	.09	.4	.8	KAO		1.2X	97	6
2003	JUL	3	1919	16.09	19	19.57	155	28.93	9.27	27	.09	.3	.9	KAO		1.2X	85	6
2003	JUL	3	2004	38.96	19	19.52	155	28.75	10.69	28	.09	.4	.8	KAO		1.3X	84	6
2003	JUL	3	2151	5.03	19	19.42	155	6.34	7.64	33	.12	.8	.7	SF4		1.3X	228	8
2003	JUL	4	1452	31.71	19	20.12	155	13.11	7.04	26	.13	.5	1.1	SF2		1.1X	129	5
2003	JUL	4	1513	23.53	19	19.29	155	10.97	6.55	31	.13	.7	1.0	SF3		1.6X	175	6
2003	JUL	4	1720	25.04	19	42.48	156	23.94	7.00	36	.15	3.1	3.9	DIS		2.3X	278	70
2003	JUL	4	1757	56.20	19	26.72	155	30.27	9.86	22	.10	.5	1.2	KAO		1.2X	73	9
2003	JUL	4	2045	24.20	19	19.43	155	12.67	9.25	46	.11	.5	.4	SF2		2.5X	132	5
2003	JUL	4	2244	26.14	19	54.33	156	7.84	50.63	34	.11	1.1	1.5	HUA		2.2X	261	39
2003	JUL	4	2244	56.08	19	22.54	155	30.05	8.95	26	.12	.5	1.0	KAO		1.8X	83	4
2003	JUL	4	2321	48.50	19	23.42	155	25.61	9.76	23	.08	.4	.7	KAO		1.1X	68	4
2003	JUL	4	2327	34.26	19	18.49	155	13.67	3.06	18	.12	.8	1.3	SSF		1.0X	108	3
2003	JUL	5	0506	6.50	19	27.23	155	29.16	10.15	33	.11	.3	.9	KAO		1.4X	56	9
2003	JUL	5	0530	3.89	19	11.50	155	31.19	36.43	39	.08	.6	1.1	DLS		1.9X	93	7
2003	JUL	5	0844	41.19	19	15.99	155	12.54	9.27	37	.11	.6	.6	SF2		1.6X	192	3
2003	JUL	5	1513	3.47	19	20.26	155	12.72	8.05	39	.10	.3	.4	SF2		1.1X	124	4
2003	JUL	5	1538	0.29	19	17.92	155	15.34	8.66	39	.09	.4	.5	SF1		1.6X	143	4
2003	JUL	5	1741	26.07	19	27.19	155	26.36	2.20	21	.12	.3	.8	KAO		1.0X	55	7
2003	JUL	5	1939	29.69	19	18.61	155	11.19	5.73	38	.14	.6	.8	SF3		1.5X	173	5
2003	JUL	5	2219	21.19	19	31.34	155	15.92	8.31	31	.14	.4	1.3	GLN		1.1X	62	7
2003	JUL	6	0835	3.34	19	24.13	155	16.79	11.84	25	.16	.7	.9	INT	L	1.6X	133	1
2003	JUL	6	0851	54.13	19	12.98	155	30.44	8.37	36	.14	.4	.7	LSW		1.7X	169	4
2003	JUL	6	1001	39.67	19	18.44	155	23.43	4.85	37	.14	.4	.9	SWR		2.4X	108	3
2003	JUL	6	1216	59.65	19	2.64	155	22.03	38.43	26	.08	1.3	1.8	LOI		1.7X	289	16
2003	JUL	6	1314	22.82	20	2.20	156	3.46	40.23	40	.12	1.1	1.4	KOH		2.5X	268	31
2003	JUL	6	1855	44.69	19	35.17	156	4.11	46.27	45	.10	1.0	1.4	KON		2.7X	239	27
2003	JUL	6	2120	52.09	19	3.61	155	22.67	36.01	39	.07	.8	1.3	LOI		2.1X	209	14
2003	JUL	7	0137	48.12	19	21.77	155	11.06	2.26	19	.08	.4	.3	SER		1.6X	133	2
2003	JUL	7	0333	49.33	19	18.16	155	14.90	9.64	46	.11	.5	.4	SF1		2.3X	102	3
2003	JUL	7	0454	14.81	19	23.93	155	25.66	7.92	43	.13	.3	.8	KAO		1.8X	41	4
2003	JUL	7	0610	44.64	19	3.03	155	22.38	38.07	36	.08	.8	1.4	LOI		1.9X	212	15
2003	JUL	7	0918	50.13	19	4.39	155	29.17	30.83	27	.06	1.0	1.5	DLS		1.6X	238	10
2003	JUL	7	1549	22.21	19	17.98	155	23.46	4.66	38	.12	.4	1.4	SWR		1.7X	112	4
2003	JUL	8	0015	35.91	20	16.48	155	35.88	26.17	34	.11	1.2	2.9	KOH		2.1X	266	25
2003	JUL	8	0211	56.08	19	34.45	155	45.36	9.84	24	.18	.6	1.2	KON		1.5X	138	7
2003	JUL	8	0458	56.41	19	22.21	155	4.64	1.71	33	.12	.5	.4	SSF		1.8X	177	4
2003	JUL	8	0841	5.20	19	21.65	155	12.85	2.43	11	.07	.5	.6	SER		1.1X	117	2
2003	JUL	8	0936	22.44	18	25.12	157	9.12	21.50	49	.11	2.0	5.0	DIS	F	4.1X	337	167
2003	JUL	8	1021	15.05	19	47.36	155	19.97	8.55	18	.10	1.0	4.2	KEA		1.2X	111	11
2003	JUL	8	1029	40.17	19	23.28	155	5.03	3.15	15	.09	1.1	.5	SME		1.6X	161	3
2003	JUL	8	1243	14.61	19	23.12	155	16.75	3.25	22	.10	.3	.2	SSC		1.7X	83	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	JUL	8	1443	56.20	19	15.61	155	28.05	11.13	30	.13	.4	1.1	LSW	1.6X	94	4
2003	JUL	8	2005	27.00	19	26.05	155	29.63	10.49	28	.10	.4	.8	KAO	1.2X	62	7
2003	JUL	8	2056	33.92	19	18.04	155	23.40	5.13	36	.12	.4	1.3	SWR	1.9X	111	4
2003	JUL	9	0343	29.09	19	22.24	155	4.98	7.85	39	.12	.6	.4	SF5	1.9X	174	4
2003	JUL	9	0534	7.23	19	18.93	155	12.96	8.03	42	.10	.4	.5	SF2	1.5X	130	4
2003	JUL	9	1759	34.11	19	20.64	155	10.76	9.07	36	.10	.5	.6	SF3	1.2X	148	4
2003	JUL	9	1800	22.05	19	20.15	155	6.66	8.65	43	.10	.4	.3	SF4	2.3X	181	6
2003	JUL	9	2031	21.56	19	10.85	155	31.92	8.51	20	.11	.7	1.5	LSW	1.5X	215	8
2003	JUL	9	2044	48.85	19	21.26	155	6.36	7.94	37	.10	.7	.5	SF4	2.2X	177	4
2003	JUL	9	2231	18.42	19	19.94	155	6.90	8.17	34	.09	.7	.6	SF4	1.7X	189	6
2003	JUL	10	0034	7.74	19	24.87	155	36.86	1.89	20	.14	.4	.5	MLO	1.2X	94	2
2003	JUL	10	0559	59.68	19	49.06	155	22.52	28.35	44	.11	.6	1.2	KEA F	3.3X	87	9
2003	JUL	10	2121	37.85	19	10.62	155	40.77	3.29	19	.14	.5	2.9	LSW	1.7X	93	9
2003	JUL	11	0006	17.54	19	27.05	155	26.29	5.32	17	.10	.4	2.6	KAO	1.1X	76	7
2003	JUL	11	0107	46.96	19	24.94	155	15.86	15.83	46	.11	.4	.3	DEP	2.2X	52	2
2003	JUL	11	0128	15.59	19	17.00	155	31.60	6.78	20	.10	.4	.9	LSW	1.7X	94	4
2003	JUL	11	0432	43.20	19	20.40	155	12.59	8.77	32	.13	.6	.4	SF2	1.4X	131	4
2003	JUL	11	1151	54.03	19	26.52	155	28.85	10.06	23	.10	.4	.9	KAO	1.4X	59	8
2003	JUL	11	1201	1.98	20	9.47	155	38.57	29.44	25	.10	1.0	1.3	KOH	2.1X	235	15
2003	JUL	11	1811	31.33	19	57.76	155	43.38	10.36	16	.13	1.0	.5	KOH	1.6X	157	13
2003	JUL	11	1950	56.21	19	23.67	155	16.71	10.35	23	.13	.6	.4	INT	1.9X	50	0
2003	JUL	11	2009	7.97	19	25.73	155	17.66	13.53	16	.14	.8	1.2	DEP L	1.9X	88	1
2003	JUL	11	2038	33.57	19	25.23	155	16.54	8.71	27	.12	.6	.7	INT L	1.5X	115	2
2003	JUL	11	2038	55.88	19	24.83	155	15.36	8.18	23	.13	.6	.6	INT L	1.1X	144	3
2003	JUL	11	2054	2.77	19	25.14	155	16.85	10.28	25	.10	.5	.5	INT L	1.5X	98	1
2003	JUL	11	2058	20.73	19	25.23	155	16.13	13.63	35	.18	.6	.5	DEP L	1.8X	52	2
2003	JUL	11	2103	37.91	19	23.86	155	17.02	6.99	33	.18	.4	.6	INT L	1.7X	45	1
2003	JUL	11	2119	41.51	19	23.42	155	15.05	14.10	24	.11	.7	.4	DEP L	2.0X	102	2
2003	JUL	11	2139	58.03	19	24.68	155	17.71	7.99	30	.13	.4	.5	INT L	1.9X	50	1
2003	JUL	11	2155	4.05	19	25.75	155	14.76	10.45	26	.15	.6	.6	INT L	1.6X	165	4
2003	JUL	11	2209	30.81	19	22.65	155	16.74	10.87	30	.15	.6	.5	INT L	2.2X	89	2
2003	JUL	11	2351	44.52	19	25.94	155	16.58	12.32	31	.12	.5	.5	INT L	1.5X	94	2
2003	JUL	12	0036	14.81	19	24.19	155	17.45	11.38	26	.13	.5	.7	INT L	1.5X	71	2
2003	JUL	12	0150	5.42	19	15.24	155	26.58	9.81	23	.07	.3	.5	LSW	1.3X	112	6
2003	JUL	12	0448	23.00	19	25.48	155	15.89	11.17	30	.09	.4	.5	INT L	1.6X	108	2
2003	JUL	12	0746	18.16	19	24.47	155	16.13	9.27	30	.14	.5	.5	INT L	1.7X	95	1
2003	JUL	12	0757	29.80	19	23.76	155	16.04	10.07	31	.11	.4	.4	INT L	2.1X	93	1
2003	JUL	12	0805	55.62	19	25.38	155	16.43	9.65	33	.12	.5	.6	INT L	2.0X	51	1
2003	JUL	12	0826	18.40	19	24.16	155	15.32	7.65	25	.12	.5	.6	INT L	1.5X	115	2
2003	JUL	12	0837	45.39	19	25.54	155	16.25	12.00	36	.15	.5	.6	INT L	2.2X	56	2
2003	JUL	12	0855	9.87	19	25.79	155	16.57	14.33	30	.13	.7	.5	DEP L	2.1X	95	2
2003	JUL	12	0931	31.52	19	25.71	155	15.48	11.31	34	.17	.5	.6	INT L	2.2X	101	3
2003	JUL	12	0951	54.74	19	24.29	155	15.77	11.12	37	.13	.4	.4	INT L	2.3X	58	2
2003	JUL	12	1014	36.64	19	24.72	155	15.49	10.75	30	.15	.6	.6	INT L	1.8X	120	2
2003	JUL	12	1031	33.79	19	25.00	155	16.35	12.87	33	.14	.6	.6	INT L	2.1X	95	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	JUL	12	1110	0.71	19	24.93	155	17.10	9.92	27	.13	.5	.6	INT L	1.7X	100	0
2003	JUL	12	1111	45.57	19	25.14	155	15.24	9.13	33	.15	.5	.6	INT L	1.8X	53	3
2003	JUL	12	1133	53.55	19	23.34	155	17.51	8.08	33	.14	.4	.6	INT L	2.2X	40	2
2003	JUL	12	1158	48.09	19	25.35	155	16.96	14.68	30	.21	.9	.7	DEP L	2.3X	84	1
2003	JUL	12	1222	49.90	19	24.54	155	15.67	13.55	22	.18	.9	1.0	DEP L	1.8X	124	2
2003	JUL	12	1233	30.13	19	10.74	155	3.78	46.45	31	.09	1.3	1.0	DEP	1.7X	249	21
2003	JUL	12	1243	15.14	19	25.20	155	17.41	5.09	39	.13	.4	.4	INT L	2.0X	49	1
2003	JUL	12	1509	54.26	19	28.52	154	49.45	5.78	28	.15	1.0	.9	LER	1.5X	284	17
2003	JUL	12	1540	32.78	19	23.19	155	14.87	3.21	23	.08	.3	.3	SEC	1.5X	103	2
2003	JUL	12	1635	7.47	19	24.48	155	16.48	10.53	35	.08	.4	.3	INT L	2.2X	52	1
2003	JUL	12	2347	2.90	19	22.24	155	2.54	7.00	27	.12	.7	.9	SF5	1.0X	193	5
2003	JUL	13	0147	27.23	19	27.48	154	49.77	6.48	32	.15	.9	.8	LER	1.9X	283	16
2003	JUL	13	0316	52.44	19	22.13	155	2.70	7.90	34	.13	.9	.6	SF5	1.7X	193	5
2003	JUL	13	0428	35.11	19	13.98	155	19.48	30.63	23	.08	1.0	1.4	DEP	1.3X	216	8
2003	JUL	13	0528	48.08	19	19.85	155	7.20	6.42	35	.11	.6	.8	SF4	1.4X	189	6
2003	JUL	13	1202	23.58	19	26.01	155	16.37	6.41	27	.13	.4	.6	INT L	1.8X	54	2
2003	JUL	13	1244	47.47	20	20.96	156	21.10	34.31	34	.13	1.2	2.0	DIS	3.0X	318	65
2003	JUL	13	1505	51.39	19	29.39	155	15.85	10.67	33	.11	.4	.9	GLN	1.7X	82	3
2003	JUL	13	2006	56.50	18	57.43	155	28.74	36.13	47	.09	.8	1.1	DLS	2.8X	233	20
2003	JUL	13	2008	9.76	18	57.28	155	28.71	35.91	48	.08	.8	1.1	DLS F	3.3X	234	20
2003	JUL	13	2014	24.55	18	56.70	155	28.89	36.81	41	.09	.9	1.3	DLS	2.1X	237	20
2003	JUL	14	0030	6.48	19	20.42	155	11.57	8.12	42	.12	.4	.3	SF3	1.6X	140	5
2003	JUL	14	0401	9.77	18	57.11	155	29.13	36.44	34	.08	.9	1.3	DLS	2.4X	235	20
2003	JUL	14	0813	50.63	19	23.10	155	29.28	10.34	24	.08	.4	.8	KAO	1.3X	75	3
2003	JUL	14	1128	7.16	19	23.30	155	17.18	10.72	23	.11	.5	.7	INT L	1.6X	52	2
2003	JUL	14	1554	59.77	20	14.57	156	3.94	23.12	13	.10	1.7	4.4	KOH	1.8X	314	32
2003	JUL	14	1839	7.58	19	21.56	155	13.91	11.15	31	.08	.5	.6	SF2	1.4X	98	2
2003	JUL	14	2345	44.85	19	22.95	155	16.95	2.57	37	.11	.3	.2	SSC	2.2X	48	1
2003	JUL	14	2351	28.53	19	23.02	155	17.15	2.46	24	.09	.3	.2	SSC	1.7X	53	1
2003	JUL	15	0012	10.12	19	24.83	155	19.67	6.86	23	.08	.4	.8	KAO	1.3X	77	2
2003	JUL	15	0045	11.30	19	23.04	155	17.12	2.57	30	.09	.3	.2	SSC	1.7X	54	1
2003	JUL	15	0052	21.72	19	23.22	155	17.13	2.71	22	.08	.3	.2	SSC	1.3X	47	0
2003	JUL	15	0101	27.73	19	22.90	155	17.25	2.49	18	.08	.3	.3	SSC	1.1X	63	1
2003	JUL	15	0257	30.89	19	23.24	155	17.07	2.51	17	.06	.3	.2	SSC	1.3X	53	0
2003	JUL	15	0729	44.76	19	20.51	155	10.71	30.61	34	.09	.8	.8	DEP	1.6X	150	4
2003	JUL	15	0932	9.73	19	22.09	155	17.44	3.48	21	.10	.3	.5	SSC	1.3X	59	3
2003	JUL	15	1005	10.35	19	15.61	155	1.14	46.15	27	.11	1.4	1.3	DEP	2.1X	256	17
2003	JUL	15	1207	44.15	19	23.19	155	16.68	16.21	22	.13	.8	.7	DEP L	1.7X	83	1
2003	JUL	15	1211	32.14	19	23.52	155	16.56	10.12	19	.12	.6	1.0	INT L	1.3X	106	1
2003	JUL	15	1240	24.12	19	23.32	155	17.30	11.10	21	.11	.5	.3	INT L	1.7X	84	3
2003	JUL	15	1242	35.41	19	24.75	155	15.57	9.11	22	.13	.6	.7	INT L	1.5X	109	2
2003	JUL	15	1245	28.00	19	23.91	155	16.07	7.73	24	.10	.4	.5	INT L	1.4X	109	1
2003	JUL	15	1250	51.29	19	26.01	155	16.05	10.56	25	.19	.7	.7	INT L	1.9X	126	3
2003	JUL	15	1254	19.63	19	24.93	155	17.90	3.33	22	.11	.3	.2	SNC L	1.5X	65	1
2003	JUL	15	1258	39.38	19	23.97	155	16.81	11.59	28	.15	.5	.8	INT L	2.1X	87	0

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	JUL	15	1302	7.64	19	23.30	155	17.47	11	23	31	.11	.5	.5	INT L	2.0X	44	2
2003	JUL	15	1304	53.14	19	24.44	155	16.55	8	05	24	.12	.5	.5	INT L	1.6X	99	1
2003	JUL	15	1310	53.98	19	23.39	155	16.03	11	38	22	.14	.7	.7	INT L	1.8X	98	1
2003	JUL	15	1313	56.01	19	25.08	155	16.23	14	95	21	.13	.9	.9	DEP L	1.7X	119	1
2003	JUL	15	1319	10.36	19	24.19	155	17.25	8	72	25	.13	.5	.6	INT L	2.0X	83	1
2003	JUL	15	1324	31.58	19	24.78	155	15.24	3	20	22	.13	.6	.4	SNC L	1.2X	136	3
2003	JUL	15	1330	52.25	19	24.60	155	17.89	5	90	18	.12	.4	.7	INT L	1.3X	63	2
2003	JUL	15	1345	4.19	19	25.16	155	16.63	10	02	35	.13	.4	.5	INT L	1.9X	54	1
2003	JUL	15	1420	54.51	19	25.71	155	16.31	13	10	22	.12	.7	.8	DEP L	1.5X	125	2
2003	JUL	15	1444	13.11	19	25.61	155	16.67	9	06	20	.16	.7	.9	INT L	1.5X	114	1
2003	JUL	15	1527	34.63	18	51.87	155	13.66	43	60	37	.09	1.1	1.8	LOI	2.3X	263	41
2003	JUL	15	1529	41.82	19	25.34	155	16.26	8	98	26	.13	.5	.8	INT L	1.7X	55	2
2003	JUL	15	1837	41.40	19	25.44	155	16.50	11	81	15	.10	.7	1.0	INT L	1.3X	160	2
2003	JUL	15	2029	17.68	18	56.87	155	29.28	36	06	21	.07	1.2	2.0	DLS	2.0X	237	20
2003	JUL	15	2031	34.91	18	56.66	155	29.36	36	52	36	.09	.8	1.4	DLS	2.1X	238	20
2003	JUL	15	2247	9.91	19	20.01	155	25.10	9	56	37	.15	.5	.7	KAO	1.6X	87	3
2003	JUL	16	0105	45.41	19	18.58	155	14.96	5	47	21	.15	.6	1.2	SF1	1.2X	120	4
2003	JUL	16	0243	8.32	19	56.40	155	37.62	13	61	25	.11	.6	.6	KOH	1.8X	137	10
2003	JUL	16	1230	32.80	19	24.69	155	38.65	3	19	15	.08	.7	.5	MLO	1.2X	185	2
2003	JUL	16	1849	43.85	19	24.92	155	16.19	14	15	17	.10	.7	.6	DEP L	1.4X	157	1
2003	JUL	16	2114	14.81	19	24.74	155	15.00	14	84	16	.10	1.0	.4	DEP L	1.3X	250	3
2003	JUL	17	1251	51.13	19	19.81	155	29.41	11	93	36	.10	.4	.6	KAO	1.7X	91	6
2003	JUL	17	1504	54.85	19	47.62	155	13.01	47	03	19	.12	1.6	1.5	KEA	1.6X	224	17
2003	JUL	17	1717	7.64	19	27.54	155	23.61	8	69	30	.10	.4	1.0	KAO	1.3X	80	4
2003	JUL	17	1741	8.65	19	30.03	155	48.18	9	48	30	.15	1.0	.5	KON	1.7X	292	4
2003	JUL	18	0200	39.99	19	25.11	155	15.79	13	78	19	.12	.9	.9	DEP L	1.4X	182	2
2003	JUL	18	0218	15.26	19	24.60	155	16.27	12	34	21	.12	.7	.7	INT L	1.5X	113	1
2003	JUL	18	0240	58.16	19	29.85	155	15.78	50	20	25	.10	.9	.8	DEP	1.7X	116	9
2003	JUL	18	0422	4.83	19	22.40	155	19.47	0	72	18	.15	.3	.4	KAO	1.7X	80	2
2003	JUL	18	0423	46.36	19	23.33	155	16.83	8	49	23	.14	.6	.6	INT L	1.6X	74	1
2003	JUL	18	0424	53.75	19	25.29	155	18.14	6	60	19	.12	.5	.8	INT L	1.3X	72	1
2003	JUL	18	0427	18.47	19	23.66	155	16.99	9	03	24	.15	.5	.6	INT L	1.7X	56	1
2003	JUL	18	0433	42.48	19	25.48	155	17.20	9	04	22	.11	.4	.6	INT L	1.6X	63	1
2003	JUL	18	0437	32.40	19	25.79	155	18.57	12	41	14	.12	1.0	1.4	INT L	1.6X	85	2
2003	JUL	18	0445	51.10	19	24.89	155	17.19	7	62	18	.13	.6	.8	INT L	1.2X	76	0
2003	JUL	18	0500	27.73	19	24.59	155	16.66	10	27	23	.11	.5	.5	INT L	1.5X	68	1
2003	JUL	18	0512	42.73	19	24.92	155	16.23	10	16	28	.13	.5	.5	INT L	1.6X	51	1
2003	JUL	18	0949	20.26	19	10.36	155	40.65	1	59	37	.17	.5	.9	LSW	2.1X	86	9
2003	JUL	18	1056	55.07	19	13.56	155	30.34	7	56	26	.12	.5	.7	LSW	1.7X	136	3
2003	JUL	18	1402	22.49	19	22.29	155	30.28	9	04	18	.07	.7	1.1	KAO	1.6X	154	5
2003	JUL	18	1430	23.68	19	18.74	155	13.15	9	98	39	.12	.6	.5	SF2	2.3X	173	7
2003	JUL	18	1829	59.28	19	18.67	155	13.28	5	31	21	.13	.6	1.6	SF2	1.5X	139	3
2003	JUL	18	1924	29.29	19	19.90	155	8.94	7	39	29	.11	.7	.6	SF4	1.9X	176	6
2003	JUL	18	1932	23.47	19	31.12	155	24.78	23	32	47	.11	.4	.8	DML F	3.2X	53	4
2003	JUL	18	2333	23.27	19	18.53	155	12.88	9	28	33	.11	.6	.6	SF2	1.7X	175	8

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	JUL	19	0004	7.42	19	17.60	155	12.70	5	94	22	.09	.8	1.0	SF2	1.2X	193	2
2003	JUL	19	0407	35.27	19	17.70	155	12.79	8	71	34	.13	.5	.5	SF2	1.8X	164	2
2003	JUL	19	0535	54.17	19	24.84	155	16.38	11	86	18	.10	.6	.9	INT L	1.3X	114	1
2003	JUL	19	0708	25.93	19	20.55	155	5.57	7	45	36	.13	.8	.6	SF4	1.5X	189	6
2003	JUL	19	1418	9.59	20	41.93	155	47.66	6	40	22	.10	9.0	11.6	DIS -	2.3X	339	125
2003	JUL	19	1447	48.76	19	25.11	155	16.28	14	71	26	.13	.8	.4	DEP L	1.7X	149	1
2003	JUL	19	1457	26.58	19	27.01	155	23.91	10	29	41	.11	.4	.8	KAO	2.1X	43	5
2003	JUL	19	2015	30.63	19	23.97	155	16.24	13	10	25	.15	.9	.6	DEP L	1.2X	151	1
2003	JUL	19	2130	28.51	19	16.64	155	11.16	8	06	20	.11	.9	1.1	SF3	1.2X	258	4
2003	JUL	19	2143	30.29	19	25.13	155	16.83	11	39	30	.11	.5	.6	INT L	1.2X	98	1
2003	JUL	19	2202	41.78	19	17.16	155	12.66	8	42	39	.12	.6	.6	SF2	2.0X	185	1
2003	JUL	20	0030	39.68	19	25.20	155	15.91	14	13	29	.15	.7	.5	DEP L	1.4X	109	2
2003	JUL	20	0210	12.92	19	27.10	155	23.26	9	65	30	.10	.4	.9	KAO	1.2X	83	5
2003	JUL	20	0225	11.83	19	11.65	155	33.28	8	75	32	.13	.6	1.0	LSW	2.0X	119	8
2003	JUL	20	0355	40.69	19	19.12	155	9.13	7	27	30	.12	.7	.8	SF3	1.1X	185	7
2003	JUL	20	1021	33.45	19	19.66	155	6.85	6	39	34	.12	.6	1.1	SF4	1.4X	190	7
2003	JUL	20	1023	37.86	19	25.08	155	15.61	14	66	25	.15	1.0	.4	DEP L	1.3X	151	2
2003	JUL	20	1138	39.18	19	27.61	155	27.46	8	62	22	.13	.5	1.5	KAO	1.2X	62	8
2003	JUL	20	1307	1.52	19	26.52	155	29.20	10	15	19	.10	.4	1.4	KAO	1.2X	71	8
2003	JUL	21	0013	39.82	19	24.41	155	15.89	13	06	20	.11	1.1	.7	DEP L	1.4X	227	2
2003	JUL	21	0154	55.94	19	18.07	155	23.13	3	07	24	.09	.4	.7	SWR	1.6X	150	4
2003	JUL	21	0527	27.42	19	17.45	155	13.72	5	87	18	.11	1.1	1.3	SF2	1.0X	111	1
2003	JUL	21	0612	21.93	19	56.58	155	30.29	37	32	18	.08	.8	1.1	KEA	1.4X	228	18
2003	JUL	21	1056	59.72	19	22.65	155	26.85	9	33	41	.10	.3	.6	KAO	1.5X	59	1
2003	JUL	21	1131	23.69	19	25.31	155	15.41	12	47	19	.12	1.1	.7	INT L	1.3X	239	3
2003	JUL	21	1716	55.16	19	25.38	155	15.49	3	55	31	.18	.5	.4	SNC L	1.5X	115	3
2003	JUL	21	1726	45.22	19	24.12	155	15.75	3	52	26	.10	.4	.3	SEC L	1.3X	112	2
2003	JUL	21	1734	51.42	19	26.00	155	16.74	14	42	30	.09	.6	.4	DEP L	1.8X	106	2
2003	JUL	21	1741	31.52	19	25.66	155	14.97	10	74	32	.11	.6	.6	INT L	1.6X	145	4
2003	JUL	21	1755	21.43	19	25.11	155	15.35	13	24	32	.10	.5	.4	DEP L	1.8X	114	3
2003	JUL	21	2050	59.77	19	10.00	155	29.19	43	84	22	.09	1.3	1.5	DLS	1.2X	254	10
2003	JUL	21	2333	53.61	19	24.21	155	16.14	3	04	18	.12	.5	.4	SEC L	1.2X	112	2
2003	JUL	22	0137	27.76	19	21.97	155	28.96	9	50	31	.10	.4	.7	KAO	1.4X	78	3
2003	JUL	22	0141	12.14	19	25.17	155	16.10	9	09	26	.13	.4	.6	INT L	1.9X	75	2
2003	JUL	22	0200	57.57	19	18.52	154	58.73	38	21	17	.08	1.9	2.0	LER	1.5X	264	12
2003	JUL	22	0323	57.81	19	25.16	155	19.06	6	81	22	.09	.4	.9	KAO	1.1X	80	3
2003	JUL	22	0324	9.22	19	25.17	155	19.13	6	49	24	.09	.4	.8	KAO	1.6X	81	3
2003	JUL	22	0450	58.87	19	25.34	155	17.86	7	60	20	.12	.7	.8	INT L	1.6X	73	0
2003	JUL	22	0652	33.50	20	0.35	155	51.68	9	13	15	.11	1.3	.9	KOH	1.6X	216	16
2003	JUL	22	0748	14.27	19	25.32	155	16.97	13	24	28	.12	.5	.3	DEP L	1.9X	52	1
2003	JUL	22	1224	10.54	19	24.63	155	18.06	1	71	26	.10	.3	.3	SNC L	1.7X	63	2
2003	JUL	22	1428	15.21	19	24.03	155	17.60	5	06	23	.10	.4	.6	INT L	1.6X	71	2
2003	JUL	23	0439	28.38	19	29.04	155	37.04	14	13	17	.09	.6	1.0	DML L	1.1X	109	2
2003	JUL	23	0727	55.78	19	22.66	155	14.83	1	42	23	.12	.2	.3	SEC	1.3X	102	2
2003	JUL	23	0755	31.11	19	22.36	155	29.36	44	12	26	.08	.9	1.2	DML	1.5X	79	3

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	JUL	23	1141	12.93	19	0.96	155	25.20	44.51	40	.07	.9	1.1	DLS		1.8X	222	16
2003	JUL	23	1337	52.93	19	12.39	155	33.64	2.55	26	.14	.6	.9	LSW		1.6X	210	8
2003	JUL	23	1540	39.29	19	19.28	155	10.54	6.63	39	.12	.5	.7	SF3		1.7X	181	6
2003	JUL	24	0011	35.07	19	11.56	155	40.39	1.11	19	.14	.6	.6	LSW		1.2X	164	18
2003	JUL	24	0642	48.27	19	21.72	155	4.90	8.57	37	.08	.6	.4	SF5		1.9X	181	5
2003	JUL	24	1147	28.13	19	23.89	155	15.62	23.86	35	.06	.7	.8	DEP		1.8X	94	2
2003	JUL	24	1522	11.23	19	19.50	155	10.31	7.32	26	.12	.7	.7	SF3		1.7X	181	6
2003	JUL	24	1940	49.53	19	23.81	155	17.26	9.75	18	.13	.6	.8	INT	L	1.9X	69	1
2003	JUL	24	1942	51.14	19	25.39	155	16.21	4.99	13	.13	1.1	.8	SNC	L	1.4X	184	2
2003	JUL	24	1959	26.14	19	25.37	155	15.87	3.89	12	.10	.6	.5	SNC	L	1.4X	172	2
2003	JUL	24	2018	43.79	19	22.70	155	16.34	9.67	24	.14	.5	.7	INT	L	1.6X	80	1
2003	JUL	24	2144	4.53	19	34.01	155	47.63	31.25	47	.11	.6	.9	KON		2.7X	165	7
2003	JUL	25	0145	21.11	19	25.01	155	17.01	4.89	23	.12	.5	.6	SNC	L	1.5X	87	0
2003	JUL	25	0147	42.65	19	25.69	155	24.25	9.88	40	.12	.4	.7	KAO		1.8X	40	8
2003	JUL	25	0222	56.11	19	27.03	155	19.99	8.78	27	.10	.5	.7	KAO		1.4X	95	5
2003	JUL	25	0752	28.76	19	24.16	155	17.55	8.19	19	.12	1.0	1.0	INT	L	1.4X	71	2
2003	JUL	25	1651	7.04	19	17.96	155	13.24	8.78	26	.08	.5	.4	SF2		1.7X	132	2
2003	JUL	25	1913	59.22	19	19.74	155	12.25	8.34	40	.12	.4	.4	SF3		1.8X	137	5
2003	JUL	26	0033	7.28	19	19.53	155	11.62	4.73	30	.09	.4	1.8	SSF		1.1X	150	6
2003	JUL	26	0104	28.96	19	45.28	155	58.10	23.61	40	.12	1.0	2.6	HUA		2.2X	223	34
2003	JUL	26	0330	49.11	19	20.02	155	10.92	8.82	35	.08	.4	.4	SF3		1.2X	153	5
2003	JUL	26	0919	25.16	19	24.93	155	0.96	6.48	22	.09	.9	1.0	SF5		1.3X	153	4
2003	JUL	26	1328	10.09	19	13.90	155	28.59	42.94	18	.12	1.4	2.5	DLS	T		139	3
2003	JUL	26	1803	33.81	19	24.73	155	36.71	1.96	16	.12	.4	.5	MLO		1.1X	104	2
2003	JUL	26	2037	20.62	19	22.83	155	15.05	29.21	34	.09	.9	.7	DEP		1.7X	122	2
2003	JUL	27	0020	43.96	19	22.06	155	4.29	6.49	29	.13	.6	.9	SF5		1.2X	181	4
2003	JUL	27	0109	23.53	19	21.47	155	30.19	9.93	24	.08	.4	.9	KAO		1.0X	91	5
2003	JUL	27	0404	40.58	19	24.93	155	29.64	9.55	28	.09	.4	.9	KAO		1.3X	68	6
2003	JUL	27	1021	19.32	19	17.93	155	45.98	9.99	38	.12	.6	.4	KON		1.9X	188	12
2003	JUL	27	1044	9.64	19	19.90	155	3.08	6.50	31	.13	.9	1.2	SF5		1.7X	216	8
2003	JUL	27	1437	2.08	19	14.53	155	33.37	4.70	38	.13	.5	1.4	LSW		2.0X	121	6
2003	JUL	27	1507	39.04	19	30.64	155	29.78	2.33	20	.09	.3	.6	MLO		1.3X	77	4
2003	JUL	27	1617	28.57	19	16.90	155	29.09	9.22	31	.14	.4	.9	LSW		1.4X	85	4
2003	JUL	27	1749	47.29	19	21.48	155	10.32	2.23	18	.08	.5	.6	SER		1.1X	143	2
2003	JUL	28	0143	40.10	19	16.14	155	17.09	33.39	32	.10	.8	1.0	DEP		1.7X	191	4
2003	JUL	28	0301	59.81	19	12.73	155	19.53	45.47	29	.08	1.1	1.1	DEP		1.8X	231	10
2003	JUL	28	1446	7.94	19	4.34	155	23.73	37.42	28	.08	.9	1.5	LOI		1.5X	210	12
2003	JUL	28	1512	41.95	19	25.65	155	15.54	10.89	22	.12	.8	.6	INT	L	1.5X	196	3
2003	JUL	28	1634	4.12	19	23.12	155	15.10	3.22	21	.10	.3	.3	SEC		1.4X	111	2
2003	JUL	28	2024	46.75	19	16.96	155	26.55	9.26	36	.12	.4	.6	LSW		1.5X	101	7
2003	JUL	28	2331	8.45	19	42.27	155	28.39	11.40	17	.11	.5	1.3	KEA		1.6X	123	9
2003	JUL	29	0119	52.93	19	24.18	155	16.42	9.67	23	.12	.6	.6	INT	L	1.4X	106	1
2003	JUL	29	0158	20.51	19	27.58	155	27.77	10.52	23	.12	.5	1.0	KAO		1.2X	52	8
2003	JUL	29	0556	34.55	19	23.60	155	16.99	11.57	21	.09	.7	.9	INT	L	1.5X	102	1
2003	JUL	29	0814	20.33	19	16.66	155	29.59	12.27	23	.10	.5	1.2	LSW		1.4X	98	3
2003	JUL	29	0955	39.26	19	24.41	155	16.78	11.88	18	.11	.6	1.0	INT	L	1.6X	116	1
2003	JUL	29	1239	27.72	19	26.39	155	24.05	9.58	41	.11	.3	.7	KAO		1.9X	42	6
2003	JUL	29	1358	24.76	19	19.11	155	52.57	6.56	28	.13	1.1	.7	KON		1.9X	276	22
2003	JUL	30	0824	44.57	20	2.03	156	10.05	7.00	18	.14	1.9	1.3	KOH		1.7X	316	52
2003	JUL	30	1618	34.96	19	21.01	155	5.46	6.50	31	.14	.7	1.1	SF4		1.5X	186	6
2003	JUL	31	0111	41.76	19	25.55	155	16.87	6.80	24	.12	.6	.5	INT	L	1.3X	109	1
2003	JUL	31	0221	44.59	19	25.16	155	16.38	8.91	27	.18	.7	.7	INT	L	1.5X	135	1
2003	JUL	31	0231	34.95	19	23.76	155	17.06	14.78	20	.13	.9	.5	DEP	L	1.3X	83	1
2003	JUL	31	0709	4.75	19	25.79	155	15.27	13.56	20	.09	.8	.5	DEP	L	1.2X	201	4
2003	JUL	31	0848	19.84	19	25.76	155	15.23	9.14	27	.13	.6	.7	INT	L	1.2X	142	3
2003	JUL	31	1100	6.57	19	24.67	155	16.08	13.96	26	.12	1.0	.5	DEP	L	1.4X	154	2
2003	JUL	31	1957	38.65	19	22.42	155	24.83	9.84	36	.12	.4	.7	KAO		1.3X	55	5
2003	JUL	31	2032	22.33	19	26.63	155	50.83	5.00	41	.12	.6	1.0	KON		2.3X	197	11
2003	JUL	31	2332	25.59	19	23.14	155	14.95	3.28	17	.07	.4	.4	SEC		1.5X	135	2
2003	AUG	1	0315	47.78	19	20.00	155	12.04	8.00	40	.11	.4	.5	SF3		1.4X	145	5
2003	AUG	1	0603	15.20	19	23.46	155	15.25	2.88	20	.10	.4	.3	SEC		1.5X	102	2
2003	AUG	1	0817	43.24	19	22.22	155	12.68	3.74	18	.07	.5	.3	SER		1.6X	120	1
2003	AUG	1	0826	49.43	19	18.59	155	15.01	5.30	27	.13	.5	1.5	SF1		1.3X	120	4
2003	AUG	1	0844	45.51	19	11.14	155	20.73	45.99	33	.09	.8	1.1	DEP		1.7X	181	13
2003	AUG	1	0851	45.02	19	8.93	155	24.71	45.77	26	.15	1.2	1.5	LOI		2.0X	259	15
2003	AUG	1	1111	12.73	19	26.10	155	18.66	6.93	44	.11	.3	.6	INT		2.1X	48	2
2003	AUG	1	1413	17.00	19	25.82	155	19.19	6.25	23	.10	.4	.9	KAO		1.4X	91	3
2003	AUG	1	1748	51.30	19	21.78	155	11.24	3.51	25	.10	.4	.4	SER		1.6X	131	3
2003	AUG	1	2221	21.11	19	28.89	155	37.36	9.98	18	.13	.6	.9	MLO		1.0X	111	3
2003	AUG	2	0810	59.97	19	29.80	155	54.43	13.70	26	.11	1.1	.5	KON		1.6X	294	15
2003	AUG	2	1716	26.44	19	25.56	155	24.67	9.03	32	.11	.4	1.0	KAO		1.3X	56	8
2003	AUG	2	1747	20.07	19	26.16	155	16.20	1.20	26	.12	.3	.4	SNC	L	.9X	124	3
2003	AUG	2	2006	16.02	20	7.48	155	31.15	31.26	46	.10	.8	1.4	KEA	F	2.8X	221	27
2003	AUG	2	2012	39.82	19	10.05	155	31.35	46.53	34	.22	1.3	1.5	DLS	T		226	6
2003	AUG	2	2121	57.37	19	22.83	155	17.42	11.04	18	.11	.5	.5	INT	L	1.8X	88	2
2003	AUG	2	2122	58.97	19	24.43	155	17.06	6.84	29	.10	.4	.4	INT	L	1.5X	91	1
2003	AUG	2	2135	54.35	19	23.18	155	14.86	3.33	19	.10	.4	.4	SEC		1.4X	108	2
2003	AUG	2	2250	18.73	19	16.59	155	13.35	8.09	29	.11	.6	.6	SF2		1.2X	223	1
2003	AUG	2	2254	42.20	19	20.45	155	3.08	7.62	41	.13	.7	.5	SF5		2.3X	205	7
2003	AUG	3	0454	29.64	19	24.90	155	16.89	10.51	28	.13	.5	.5	INT	L	1.7X	105	0
2003	AUG	3	0814	32.70	19	25.03	155	17.02	10.58	23	.13	.8	.5	INT	L	1.5X	95	0
2003	AUG	3	1142	30.58	19	25.35	155	17.90	10.89	29	.14	.5	.7	INT	L	1.5X	69	1
2003	AUG	3	1143	5.51	19	24.45	155	15.30	16.64	19	.12	1.2	.9	DEP	L	1.6X	217	2
2003	AUG	3	1151	44.46	19	17.38	155	22.43	5.49	30	.11	.6	1.7	SWR		1.4X	192	5
2003	AUG	3	1311	37.74	19	16.58	155	27.10	11.70	27	.09	.4	1.0	LSW		1.3X	98	6
2003	AUG	3	1517	20.90	19	25.32	155	16.79	8.91	21	.12	.5	.7	INT	L	1.5X	101	1
2003	AUG	3	1527	11.52	20	36.72	155	56.53	6.18	37	.13	1.3	.7	DIS		2.5X	323	56
2003	AUG	3	1905	13.77	19	58.22	155	41.49	15.98	26	.10	.7	1.1	KOH		2.0U	130	13
2003	AUG	3	2011	46.23	19	24.54	155	16.03	3.42	19	.10	.4	.3	SNC		1.3X	150	2
2003	AUG	3	2053	38.90	18	56.57	155	28.86	36.05	29	.08	.9	1.4	DLS		1.6X	238	20

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	AUG	3	2056	11.28	18	56.91	155	28.82	35.88	48	.09	.8	1.1	DLS	F	3.3X	236	20
2003	AUG	3	2102	43.42	18	56.86	155	28.78	35.43	31	.08	.9	1.3	DLS		1.8X	236	20
2003	AUG	4	0248	17.30	19	25.52	155	16.69	12.52	24	.10	.6	.6	INT	L	1.3X	113	1
2003	AUG	4	0625	49.04	19	25.61	155	19.17	7.73	27	.09	.4	.7	KAO		1.2X	88	3
2003	AUG	4	0724	30.75	19	25.49	155	16.55	7.11	17	.15	.7	.7	INT	L	1.3X	117	1
2003	AUG	4	0750	9.73	19	16.93	155	12.68	8.47	36	.10	.5	.5	SF2		1.6X	219	1
2003	AUG	4	0900	23.60	19	24.85	155	16.54	4.17	23	.09	.4	.3	SNC	L	1.1X	110	1
2003	AUG	4	1320	37.65	19	24.68	155	17.38	6.62	17	.12	.5	.7	INT	L	1.5X	55	1
2003	AUG	4	1334	6.95	19	24.67	155	18.67	9.59	28	.13	.4	.6	INT	L	1.7X	37	2
2003	AUG	4	1339	39.52	19	25.33	155	16.60	10.50	31	.14	.4	.5	INT	L	1.6X	91	1
2003	AUG	4	1342	29.32	19	24.73	155	15.98	14.35	22	.11	.9	.4	DEP	L	1.5X	139	3
2003	AUG	4	1343	17.28	19	25.26	155	16.66	6.58	22	.11	.6	.4	INT	L	1.2X	102	1
2003	AUG	4	1344	17.29	19	23.98	155	16.02	8.34	17	.14	.6	.7	INT	L	1.5X	139	1
2003	AUG	4	1345	48.43	19	25.02	155	15.80	8.74	28	.14	.7	.5	INT	L	1.3X	128	2
2003	AUG	4	1347	37.05	19	24.72	155	17.27	9.97	23	.14	.6	.7	INT	L	1.5X	52	1
2003	AUG	4	1349	35.55	19	25.89	155	14.95	9.06	21	.13	.5	.7	INT	L	1.2X	151	4
2003	AUG	4	1352	52.93	19	23.46	155	17.14	10.81	31	.13	.4	.5	INT	L	2.2X	44	1
2003	AUG	4	1355	20.51	19	25.65	155	16.53	10.82	22	.12	.6	.7	INT	L	1.6X	108	2
2003	AUG	4	1355	58.18	19	25.61	155	17.59	6.51	19	.13	.8	.6	INT	L	1.4X	156	0
2003	AUG	4	1356	39.81	19	25.34	155	15.60	4.50	25	.12	.5	.6	SNC	L	1.4X	138	3
2003	AUG	4	1358	2.27	19	24.09	155	16.13	11.40	28	.12	.5	.6	INT	L	1.6X	103	1
2003	AUG	4	1403	34.11	19	24.50	155	15.11	11.02	21	.13	.7	.6	INT	L	1.7X	123	3
2003	AUG	4	1410	16.14	19	24.07	155	16.84	9.70	32	.11	.4	.5	INT	L	2.0X	84	1
2003	AUG	4	1424	13.55	19	24.45	155	17.13	10.37	30	.14	.5	.6	INT	L	2.1X	48	1
2003	AUG	4	1736	51.85	19	21.19	155	18.68	3.59	29	.09	.3	.6	SWR		1.2X	79	3
2003	AUG	4	1803	22.66	19	23.30	155	17.23	6.88	16	.09	.6	.9	INT	L	1.6X	86	1
2003	AUG	4	1856	2.77	19	17.77	155	13.55	4.23	24	.12	.7	1.1	SSF		1.2X	112	1
2003	AUG	4	1947	51.67	19	25.65	155	16.54	10.07	32	.11	.3	.5	INT	L	1.8X	88	2
2003	AUG	5	0030	2.26	19	17.63	155	29.52	9.17	37	.12	.4	.7	LSW		1.9X	77	5
2003	AUG	5	0241	18.39	19	5.40	155	51.37	41.64	26	.11	1.3	1.6	KON		1.5X	240	23
2003	AUG	5	0659	15.06	19	23.12	155	14.69	3.32	18	.07	.4	.3	SEC		1.3X	138	2
2003	AUG	5	1029	36.46	19	18.42	155	12.83	8.37	34	.12	.5	.8	SF2		1.8X	141	3
2003	AUG	5	1228	19.10	19	22.49	155	29.87	8.52	22	.11	.5	.9	KAO		1.5X	82	4
2003	AUG	5	1415	55.56	19	25.82	155	18.49	4.03	15	.21	.7	.9	SNC	L	1.3X	89	2
2003	AUG	5	1659	51.52	19	9.58	155	33.13	4.28	16	.10	.6	7.8	LSW		1.3X	145	11
2003	AUG	5	1812	3.17	19	20.44	155	12.42	8.16	29	.14	.6	.4	SF2		1.4X	134	4
2003	AUG	5	2043	15.01	19	47.31	155	33.53	10.03	14	.07	.5	1.0	KEA		1.1X	116	13
2003	AUG	6	0344	25.14	19	54.10	155	44.26	36.53	21	.10	.9	1.1	HUA		1.5X	246	9
2003	AUG	6	0503	25.23	19	13.35	155	25.05	35.97	39	.11	.7	1.0	DLS		1.7X	144	9
2003	AUG	6	0653	29.48	19	13.07	155	24.83	36.03	26	.10	1.0	1.5	DEP		1.5X	150	8
2003	AUG	7	0353	51.36	19	23.41	155	14.64	3.37	27	.10	.3	.4	SEC		1.9X	106	3
2003	AUG	7	0631	55.02	19	25.06	155	28.89	10.45	39	.09	.3	.5	KAO		1.9X	65	5
2003	AUG	7	0729	33.11	19	24.14	154	57.76	4.66	15	.14	1.7	1.1	SLE		1.5X	256	2
2003	AUG	7	1019	0.63	19	55.27	155	29.94	35.51	16	.09	.9	1.2	KEA		1.3X	212	17
2003	AUG	7	1301	4.97	19	24.20	155	17.88	11.37	16	.13	.8	1.0	INT	L	2.0X	67	2
2003	AUG	7	2241	52.51	19	26.20	155	15.72	11.04	24	.11	.6	.7	INT	L	1.8X	150	3
2003	AUG	7	2242	33.34	19	26.07	155	15.18	10.47	18	.12	1.3	.9	INT	L	1.1X	230	4
2003	AUG	7	2243	12.25	19	23.06	155	16.92	10.04	21	.16	.8	.9	INT	L	1.9X	114	2
2003	AUG	7	2244	22.71	19	25.72	155	15.21	9.03	25	.16	.6	.7	INT	L	1.5X	131	3
2003	AUG	7	2245	9.23	19	23.29	155	16.15	11.57	23	.10	.6	.6	INT	L	1.7X	101	1
2003	AUG	7	2246	30.32	19	25.26	155	15.57	8.70	23	.13	.7	.7	INT	L	1.4X	196	3
2003	AUG	7	2255	36.30	19	23.56	155	17.28	11.35	18	.11	.6	.8	INT	L	1.7X	62	1
2003	AUG	7	2344	32.78	19	24.58	155	17.57	3.17	18	.11	.4	.6	SNC	L	1.5X	89	1
2003	AUG	8	0057	16.68	19	23.22	155	16.45	2.37	18	.16	.5	.3	SEC	L	1.6X	99	1
2003	AUG	8	0151	1.36	19	25.66	155	15.91	2.15	14	.08	.6	.5	SNC		1.4X	176	2
2003	AUG	8	0218	13.97	19	23.86	155	17.59	7.66	21	.11	.4	.6	INT	L	1.8X	58	2
2003	AUG	8	0218	46.52	19	23.57	155	16.22	11.87	22	.14	.6	.7	INT	L	2.1X	58	1
2003	AUG	8	0227	46.82	19	24.00	155	16.01	3.17	18	.11	.5	.4	SEC		1.8X	141	1
2003	AUG	8	0327	1.84	19	24.36	155	14.31	48.81	27	.12	.8	1.3	DEP		1.9X	57	4
2003	AUG	8	0500	22.42	19	24.88	155	17.31	7.07	24	.12	.5	.7	INT	L	1.8X	74	1
2003	AUG	8	0718	12.16	19	24.08	155	17.30	10.32	25	.14	.5	.6	INT	L	1.8X	61	1
2003	AUG	8	0938	35.18	19	24.56	155	16.80	8.33	25	.14	.5	.6	INT	L	1.8X	51	1
2003	AUG	8	1123	53.12	19	24.00	155	16.31	10.61	19	.17	1.1	1.1	INT	L	1.8X	171	1
2003	AUG	8	1127	42.96	19	24.37	155	15.93	6.42	18	.13	.6	.7	INT	L	1.7X	117	1
2003	AUG	8	1439	50.06	19	25.43	155	15.94	8.01	22	.12	.4	.6	INT	L	1.9X	88	2
2003	AUG	8	1855	0.76	19	25.60	155	17.10	10.71	28	.15	.5	.6	INT	L	1.9X	54	1
2003	AUG	8	2013	13.09	19	18.05	155	20.82	7.19	23	.10	.5	.6	SWR		1.2X	154	4
2003	AUG	8	2134	38.37	19	24.76	155	16.78	1.59	13	.12	.5	.3	SNC		1.6X	106	0
2003	AUG	8	2139	0.29	19	23.45	155	15.32	3.04	18	.09	.4	.3	SEC		1.5X	138	2
2003	AUG	9	0021	30.18	19	23.78	155	15.42	3.21	15	.11	.4	.5	SEC		1.3X	117	2
2003	AUG	9	0021	45.73	19	23.67	155	15.30	3.20	13	.07	.4	.4	SEC		1.4X	151	2
2003	AUG	9	0142	55.86	19	16.78	155	13.65	8.10	23	.11	1.0	.6	SF2		1.4X	240	1
2003	AUG	9	0511	21.36	19	22.77	155	26.17	12.11	35	.10	.3	.5	KAO		1.7X	74	3
2003	AUG	9	0543	19.00	19	25.03	155	16.45	12.40	18	.14	.6	.7	INT	L	1.6X	71	1
2003	AUG	9	0548	9.05	19	24.15	155	17.78	13.15	27	.14	.6	.4	DEP	L	1.5X	54	2
2003	AUG	9	0733	51.51	19	22.46	155	10.83	3.38	24	.12	.7	.5	SER		1.7X	131	1
2003	AUG	9	0816	22.21	19	28.00	155	14.22	31.37	42	.11	.6	1.0	DEP		1.7X	61	4
2003	AUG	9	0816	41.83	19	25.72	155	16.93	10.41	12	.15	.9	1.3	INT	L	1.8X	73	1
2003	AUG	9	0849	17.19	19	27.72	155	14.30	32.23	52	.11	.5	.8	DEP		2.0X	60	4
2003	AUG	9	1105	29.24	19	24.84	155	17.41	11.86	18	.14	.7	.7	INT	L	1.7X	78	1
2003	AUG	9	1148	47.13	19	28.99	155	12.27	12.29	28	.10	.4	.9	GLN		1.5X	102	8
2003	AUG	9	1356	28.74	19	25.91	155	16.31	8.27	28	.17	.6	.6	INT	L	1.8X	126	2
2003	AUG	9	1829	28.33	19	19.52	155	7.65	6.93	37	.12	.6	.9	SF4		1.5X	190	7
2003	AUG	9	1912	33.46	19	23.90	155	16.69	11.39	25	.11	.5	.6	INT	L	1.4X	89	0
2003	AUG	9	2003	55.07	19	25.47	155	16.53	9.62	34	.14	.4	.5	INT	L	1.9X	51	1
2003	AUG	9	2121	13.42	19	26.93	155	23.95	10.52	34	.10	.4	.8	KAO		1.4X	70	5
2003	AUG	9	2216	3.52	19	25.00	155	16.19	8.73	27	.15	.6	.6	INT	L	1.5X	63	1
2003	AUG	9	2228	16.06	19	25.05	155	16.72	8.89	37	.12	.4	.5	INT	L	1.9X	50	1
2003	AUG	9	2228	55.04	19	24.77	155	17.34	14.41	31	.14	.7	.5	DEP	L	1.8X	56	1
2003	AUG	9	2235	31.87	19	22.93	155	15.95	8.92	33	.18	.5	.6	INT	L	1.9X	90	1

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	AUG	10	0120	4.32	19	24.30	155	16.92	11.89	35	.14	.4	.5	INT	L	1.7X	49	1
2003	AUG	10	0226	20.97	19	22.82	155	15.51	3.15	16	.09	.4	.3	SEC		1.2X	120	1
2003	AUG	10	0229	52.75	19	23.11	155	14.96	2.84	15	.07	.4	.3	SEC		1.1X	141	2
2003	AUG	10	0352	0.59	19	23.95	155	17.39	10.46	38	.13	.4	.5	INT	L	2.2X	47	1
2003	AUG	10	0405	4.15	19	47.75	155	34.83	15.24	43	.11	.4	.6	KEA	F	2.4X	96	11
2003	AUG	10	0549	47.54	19	25.38	155	16.01	3.14	32	.09	.2	.2	SNC	L	1.9X	52	2
2003	AUG	10	0555	55.06	19	23.53	155	16.68	24.48	33	.14	.9	.7	DEP	L	2.3X	47	1
2003	AUG	10	0606	50.89	19	25.89	155	15.78	10.74	32	.12	.4	.6	INT	L	1.9X	53	3
2003	AUG	10	0619	26.23	19	24.60	155	17.36	11.14	36	.14	.4	.6	INT	L	2.0X	41	1
2003	AUG	10	0644	12.40	19	24.47	155	17.61	8.47	37	.11	.4	.5	INT	L	2.1X	43	1
2003	AUG	10	0849	25.73	19	19.41	155	11.81	6.13	29	.10	.5	.9	SF3		1.3X	149	5
2003	AUG	10	0955	43.30	19	25.83	155	15.78	13.90	24	.14	.7	.7	DEP	L	1.7X	131	3
2003	AUG	10	1518	19.42	19	24.30	155	16.71	5.95	37	.13	.4	.5	INT	L	2.1X	51	1
2003	AUG	10	1558	7.18	19	22.30	155	48.21	10.91	19	.10	1.1	1.1	KON		1.2X	262	14
2003	AUG	10	2103	58.06	19	24.52	155	16.95	7.91	25	.11	.5	.6	INT	L	1.5X	101	1
2003	AUG	10	2135	33.38	19	24.29	155	17.70	3.48	32	.15	.3	.3	SSC	L	1.6X	45	2
2003	AUG	10	2147	12.71	19	25.37	155	17.72	8.32	31	.14	.4	.5	INT	L	1.8X	45	0
2003	AUG	10	2147	27.01	19	25.39	155	17.90	13.73	20	.10	.7	.9	DEP	L	2.3X	74	1
2003	AUG	10	2252	13.71	19	18.38	155	12.93	8.19	33	.07	.4	.5	SF2		1.3X	138	3
2003	AUG	11	0051	36.75	19	25.29	155	18.20	7.39	32	.11	.4	.6	INT	L	2.1X	39	1
2003	AUG	11	0051	55.88	19	25.19	155	16.51	10.50	26	.14	.5	.6	INT	L	2.0X	93	1
2003	AUG	11	0304	52.95	19	27.04	155	29.37	9.56	31	.15	.4	1.1	KAO		1.7X	57	9
2003	AUG	11	0611	54.71	19	25.16	155	17.15	10.84	36	.13	.4	.5	INT	L	2.1X	50	1
2003	AUG	11	1210	44.89	19	24.31	155	17.60	10.16	35	.11	.3	.4	INT	L	2.2X	44	2
2003	AUG	11	1219	20.37	19	25.46	155	16.60	9.27	35	.14	.4	.6	INT	L	1.9X	51	1
2003	AUG	11	1240	5.64	19	24.38	155	16.54	9.24	27	.13	.6	.6	INT	L	1.8X	106	1
2003	AUG	11	1304	38.96	19	25.19	155	17.20	4.04	33	.17	.3	.3	SNC	L	1.6X	50	1
2003	AUG	11	1318	50.55	19	25.18	155	17.84	4.30	33	.17	.4	.4	SNC	L	1.7X	56	1
2003	AUG	11	1330	23.69	19	25.25	155	16.06	12.17	35	.12	.5	.5	INT	L	1.9X	56	2
2003	AUG	11	1601	31.06	19	27.14	155	28.86	10.31	29	.10	.4	1.1	KAO		1.4X	56	9
2003	AUG	11	2318	17.52	19	21.86	155	26.03	10.19	36	.09	.4	.6	KAO		1.4X	88	3
2003	AUG	11	2322	19.02	19	24.76	155	16.58	8.82	34	.13	.4	.5	INT	L	1.9X	52	1
2003	AUG	12	0115	33.05	19	20.22	155	7.19	7.86	38	.11	.6	.7	SF4		1.7X	184	6
2003	AUG	12	0311	56.84	19	51.29	155	32.18	23.94	26	.08	.7	1.3	KEA		1.5X	166	12
2003	AUG	12	0702	25.76	19	24.09	155	16.87	10.26	33	.12	.4	.5	INT	L	2.1X	48	1
2003	AUG	12	0709	26.82	19	25.49	155	17.49	8.86	36	.15	.5	.6	INT	L	2.1X	50	0
2003	AUG	12	0720	31.72	19	24.51	155	17.36	8.84	36	.14	.5	.5	INT	L	1.9X	47	1
2003	AUG	12	2047	29.68	19	25.35	155	16.88	7.72	27	.11	.5	.6	INT	L	1.8X	99	1
2003	AUG	12	2122	43.94	19	24.01	155	16.26	8.64	33	.14	.5	.5	INT	L	1.9X	49	1
2003	AUG	12	2137	51.59	19	25.71	155	17.78	11.05	31	.14	.5	.6	INT	L	2.0X	53	1
2003	AUG	12	2139	37.79	18	47.29	155	16.91	42.34	32	.08	1.0	1.9	LOI		1.9X	280	45
2003	AUG	12	2155	37.81	19	24.08	155	17.55	4.73	30	.14	.3	.5	SSC	L	2.0X	68	2
2003	AUG	12	2228	5.51	19	25.80	155	17.79	6.34	28	.12	.4	.6	INT	L	1.5X	76	1
2003	AUG	13	0146	35.63	19	17.83	155	16.05	9.36	45	.12	.4	.4	SF1		2.3X	123	5
2003	AUG	13	0417	12.63	19	22.55	155	4.88	6.90	38	.16	.7	.5	SF5		1.9X	170	4

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	AUG	13	0725	19.92	19	24.31	155	17.35	4.30	32	.12	.3	.4	SSC	L	1.8X	67	1
2003	AUG	13	1536	24.79	19	20.21	155	19.65	34.45	45	.11	.6	.9	DEP		2.2X	61	4
2003	AUG	13	2033	31.93	19	19.71	155	12.05	7.89	38	.08	.4	.5	SF3		1.6X	141	6
2003	AUG	13	2242	5.09	19	43.57	156	9.27	38.80	22	.13	1.6	3.0	HUA		2.1X	306	47
2003	AUG	13	2246	5.22	19	23.87	155	16.81	11.01	30	.12	.4	.4	INT	L	1.9X	43	0
2003	AUG	13	2250	14.38	19	25.94	155	16.84	6.54	26	.10	.4	.6	INT	L	1.6X	102	2
2003	AUG	13	2255	38.37	19	24.73	155	16.47	7.84	32	.12	.5	.5	INT	L	1.7X	91	1
2003	AUG	13	2300	14.86	19	24.79	155	17.46	10.39	33	.10	.4	.6	INT	L	1.9X	41	1
2003	AUG	13	2300	49.66	19	24.53	155	17.05	7.22	25	.07	.4	.5	INT	L	1.8X	51	1
2003	AUG	13	2302	8.65	19	24.81	155	17.63	5.15	32	.13	.4	.4	INT	L	1.8X	65	1
2003	AUG	13	2309	32.09	19	25.58	155	16.73	3.66	34	.13	.3	.3	SNC	L	1.6X	51	1
2003	AUG	13	2313	24.74	19	25.55	155	16.52	7.06	34	.12	.4	.5	INT	L	1.8X	51	1
2003	AUG	13	2326	3.11	19	25.26	155	17.17	10.39	36	.12	.4	.5	INT	L	1.9X	50	1
2003	AUG	13	2339	23.63	19	24.53	155	17.01	9.99	32	.12	.4	.5	INT	L	1.6X	82	1
2003	AUG	13	2340	6.10	19	47.98	155	35.65	24.23	35	.10	.8	1.4	KEA		1.8X	144	10
2003	AUG	14	0004	35.26	19	25.76	155	16.57	9.98	32	.13	.5	.5	INT	L	1.8X	52	2
2003	AUG	14	0433	42.39	19	20.26	155	12.67	8.08	33	.12	.5	.6	SF2		1.2X	125	4
2003	AUG	14	1756	2.99	19	17.41	155	4.27	46.56	47	.10	.7	.7	DEP		2.4X	217	12
2003	AUG	14	1933	48.94	19	25.41	155	16.51	11.26	26	.11	.5	.6	INT	L	1.7X	107	1
2003	AUG	14	2115	21.00	19	24.48	155	16.50	7.51	29	.09	.4	.5	INT	L	1.6X	93	1
2003	AUG	14	2115	53.38	19	25.39	155	16.28	6.08	32	.13	.3	.5	INT	L	1.6X	51	2
2003	AUG	14	2121	33.84	19	25.15	155	16.95	7.83	34	.14	.3	.5	INT	L	1.9X	50	0
2003	AUG	14	2329	58.75	19	45.77	155	34.34	16.22	37	.08	.5	.9	KEA		2.0X	87	12
2003	AUG	15	0158	51.45	19	33.19	155	9.22	23.84	37	.10	.5	1.2	DEP		1.7X	90	16
2003	AUG	15	0615	36.55	19	21.72	155	14.50	2.65	23	.12	.4	.3	KOA		1.3X	93	3
2003	AUG	15	0759	27.38	19	18.64	155	13.36	5.36	31	.12	.5	1.4	SF2		1.3X	135	3
2003	AUG	15	1304	11.83	19	19.25	155	8.59	6.51	35	.10	.6	1.0	SF4		1.7X	188	7
2003	AUG	15	1937	56.65	19	18.14	155	51.47	16.76	10	.11	1.6	14.7	KON	-	1.3X	264	31
2003	AUG	16	0334	3.97	19	57.43	155	29.44	9.89	17	.11	.8	.6	KEA		1.2X	236	17
2003	AUG	16	1035	56.57	19	26.36	155	28.95	10.17	40	.12	.3	.6	KAO		1.7X	92	7
2003	AUG	16	1302	22.36	19	18.27	154	57.33	41.31	32	.11	1.2	.9	LER		1.9X	275	13
2003	AUG	16	1339	19.23	19	28.37	155	27.30	7.75	24	.15	.4	1.2	KAO		1.2X	58	7
2003	AUG	16	1539	37.83	19	20.32	155	11.02	9.37	37	.09	.5	.4	SF3		1.6X	149	5
2003	AUG	16	1601	18.61	19	19.69	155	11.73	7.81	29	.12	.6	.8	SF3		1.3X	155	6
2003	AUG	16	1740	31.84	19	21.49	155	30.09	8.48	41	.12	.3	.8	KAO		1.8X	63	5
2003	AUG	16	1859	18.98	19	21.22	155	30.09	10.40	22	.05	.4	1.0	KAO		1.1X	91	5
2003	AUG	16	2144	51.09	19	26.06	155	21.71	11.42	28	.07	.5	.8	KAO		1.4X	120	6
2003	AUG	17	0212	25.23	19	22.97	155	26.79	9.73	45	.13	.3	.6	KAO		2.3X	56	2
2003	AUG	17	0647	3.20	19	26.31	155	30.20	10.52	37	.10	.4	.6	KAO		1.9X	43	8
2003	AUG	17	0758	12.48	19	19.55	155	23.53	34.16	38	.11	.6	.9	DEP		1.7X	110	1
2003	AUG	17	0847	59.54	19	19.91	155	7.35	7.87	34	.11	.7	.6	SF4		1.8X	187	6
2003	AUG	17	1528	15.95	19	23.48	155	27.55	9.25	28	.09	.4	.8	KAO		1.0X	64	2
2003	AUG	18	0243	31.13	19	24.12	155	29.98	12.83	34	.07	.3	.5	KAO		1.6X	74	5
2003	AUG	18	0342	25.86	19	25.44	155	16.66	10.09	30	.13	.6	.6	INT	L	1.6X	95	1
2003	AUG	18	1220	41.51	19	24.94	155	36.69	1.44	16	.13	.4	.4	MLO		1.1X	95	2

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS		
2003	AUG	18	1252	17.20	19	19.09	155	8.63	4.50	36	.10	.5	2.6	SSF	1.5X	207	7		
2003	AUG	18	1431	40.92	19	20.19	155	52.33	9.31	20	.19	1.4	1.3	KON	1.2X	287	22		
2003	AUG	18	1639	43.96	18	56.62	155	28.71	34.96	32	.11	1.0	1.6	DLS	2.3X	238	21		
2003	AUG	18	1951	0.41	19	28.18	154	51.77	3.18	38	.11	1.0	1.0	SLE	F	2.8X	276	13	
2003	AUG	18	2016	39.26	19	27.90	154	52.09	1.84	36	.12	1.7	1.0	SLE	F	2.2X	274	13	
2003	AUG	18	2017	8.58	19	29.27	154	54.40	4.51	12	.06	1.9	9.5	SLE	-	2.4X	253	11	
2003	AUG	18	2329	41.03	19	58.68	155	37.30	13.91	38	.12	.8	.7	KOH		2.0X	152	14	
2003	AUG	19	1650	6.87	19	19.83	155	11.27	0.96	29	.15	.4	.5	SSF		1.5X	161	6	
2003	AUG	19	1709	53.25	19	27.25	155	23.90	10.72	28	.09	.4	.9	KAO		1.4X	73	5	
2003	AUG	19	1901	30.97	19	28.98	155	26.65	2.93	28	.12	.3	.9	KAO		1.5X	62	6	
2003	AUG	19	2227	30.77	19	28.72	155	37.41	13.16	20	.14	.5	.8	DML	T	2.0X	109	3	
2003	AUG	20	0112	55.77	19	16.79	155	50.19	8.69	23	.12	.9	1.1	KON		1.3X	265	20	
2003	AUG	20	0450	28.52	19	23.04	155	17.17	2.98	17	.08	.3	.4	SSC		1.2X	71	2	
2003	AUG	20	0615	33.64	19	28.86	155	27.17	5.83	20	.09	.4	1.9	KAO		1.1X	83	6	
2003	AUG	20	0937	52.66	19	16.26	155	22.76	9.42	38	.12	.4	.8	SWR		2.2X	131	7	
2003	AUG	20	0938	32.46	19	16.22	155	22.83	8.48	33	.09	.4	1.3	SWR		2.0X	132	7	
2003	AUG	20	0948	56.31	19	23.52	155	17.62	1.93	26	.11	.2	.4	SSC	L	1.4X	49	2	
2003	AUG	20	1552	6.61	19	20.54	155	7.29	7.99	35	.12	.5	.5	SF4		1.9X	180	5	
2003	AUG	20	1932	25.86	19	25.44	155	15.70	8.92	28	.13	.7	.6	INT	L	1.5X	137	2	
2003	AUG	20	2047	31.10	19	26.21	155	18.55	7.14	36	.13	.4	.7	INT		1.9X	52	2	
2003	AUG	20	2328	17.96	19	25.01	155	19.42	7.38	28	.10	.4	.6	KAO		1.3X	45	2	
2003	AUG	20	2348	17.63	19	17.80	155	27.60	10.02	36	.10	.3	.6	LSW		1.5X	89	7	
2003	AUG	21	0024	39.08	19	25.36	155	15.77	6.77	26	.11	.5	.6	INT	L	1.5X	123	2	
2003	AUG	21	0531	3.68	19	25.18	155	16.95	8.56	33	.10	.4	.4	INT	L	1.9X	85	1	
2003	AUG	21	0707	0.63	19	11.93	155	35.73	2.34	40	.15	.4	.9	LSW		2.0X	134	11	
2003	AUG	21	0714	57.90	19	10.79	155	40.59	0.73	28	.13	.4	.5	LSW		1.6X	93	10	
2003	AUG	21	0739	30.25	19	17.48	155	14.97	8.49	30	.06	.4	.8	SF1		1.4X	129	3	
2003	AUG	21	1259	45.99	19	25.54	155	18.18	6.92	18	.12	.6	1.0	INT	L	1.8X	75	1	
2003	AUG	21	1407	39.93	19	27.00	154	50.57	3.90	34	.13	.9	1.0	SLE	F	2.1X	280	15	
2003	AUG	21	1716	55.06	19	24.46	155	37.49	2.85	15	.17	.6	.6	MLO		1.5X	76	1	
2003	AUG	21	2011	29.63	19	19.26	155	11.82	5.98	25	.10	.6	1.0	SF3		1.5X	171	5	
2003	AUG	21	2044	59.05	19	19.68	155	7.76	8.81	38	.12	.8	.5	SF4		1.8X	187	7	
2003	AUG	21	2125	58.43	19	19.23	155	15.55	5.11	22	.10	.5	1.8	SF1		1.3X	109	5	
2003	AUG	21	2239	7.66	19	20.71	155	21.11	32.74	36	.11	.6	.9	DEP		1.7X	98	4	
2003	AUG	21	2322	24.63	19	30.15	155	32.36	15.25	17	.11	.5	.6	DML		1.5X	55	6	
2003	AUG	22	0007	10.21	19	26.48	155	28.95	11.05	34	.12	.4	.5	KAO		1.7X	59	8	
2003	AUG	22	1936	43.82	19	20.81	155	12.87	9.12	32	.11	.4	.5	SF2		1.3X	117	6	
2003	AUG	23	0026	49.39	19	25.75	155	19.22	6.66	19	.09	.5	.9	KAO		1.4X	90	3	
2003	AUG	23	0218	24.18	19	20.41	155	8.41	9.00	43	.10	.6	.4	SF4		2.3X	173	5	
2003	AUG	23	0255	25.37	19	13.72	155	2.65	46.56	41	.09	1.1	.9	DEP		1.7X	230	20	
2003	AUG	23	0609	43.80	19	30.30	155	26.61	6.31	21	.09	.4	1.1	MLO		1.2X	101	4	
2003	AUG	23	0747	20.73	19	14.75	155	33.42	6.66	36	.13	.4	1.0	LSW		2.0X	120	6	
2003	AUG	23	1454	34.37	19	25.39	155	16.58	6.93	29	.11	.4	.4	INT	L	1.5X	105	1	
2003	AUG	23	1646	43.44	19	16.29	155	13.65	8.10	26	.11	.7	1.0	SF2		1.2X	244	1	
2003	AUG	23	1724	29.47	19	25.12	155	20.13	7.18	31	.07	.4	.8	KAO		1.8X	50	3	
2003	AUG	23	1725	47.66	19	12.91	155	35.94	12.32	18	.09	.9	2.1	LSW		1.8X	219	11	
2003	AUG	23	2119	2.94	19	21.28	155	4.46	7.65	37	.12	.5	.6	SF5		2.0X	190	6	
2003	AUG	23	2158	24.23	19	25.11	155	19.11	7.44	33	.10	.4	.7	KAO		1.4X	42	3	
2003	AUG	24	0018	9.43	19	19.01	155	9.04	7.87	38	.11	.6	.5	SF4		1.6X	188	7	
2003	AUG	24	0019	15.53	19	19.53	155	9.08	8.10	40	.11	.5	.6	SF4		1.5X	180	6	
2003	AUG	24	0115	22.76	19	23.55	155	17.08	9.97	25	.09	.5	.6	INT	L	1.4X	51	1	
2003	AUG	24	0234	44.09	19	19.85	155	7.64	7.25	42	.11	.6	.6	SF4		1.9X	184	6	
2003	AUG	24	0548	9.06	19	19.02	155	13.18	8.96	43	.12	.4	.4	SF2		2.0X	123	4	
2003	AUG	24	0657	58.29	19	24.91	155	15.72	3.85	35	.13	.3	.3	SNC	L	1.8X	101	2	
2003	AUG	24	1126	46.48	19	23.86	155	17.02	10.45	33	.12	.5	.5	INT	L	1.7X	79	1	
2003	AUG	24	1650	45.29	19	26.35	155	29.93	10.47	22	.08	.5	1.2	KAO		1.4X	62	8	
2003	AUG	24	1732	55.53	19	25.58	155	16.00	13.39	29	.12	.5	.4	DEP	L	1.8X	99	2	
2003	AUG	24	1811	2.21	19	10.94	155	40.80	2.42	33	.17	.5	1.0	LSW		1.5X	96	10	
2003	AUG	24	1904	7.85	19	18.15	155	14.14	8.34	30	.09	.4	.6	SF2		1.1X	118	2	
2003	AUG	24	2011	44.75	19	23.99	155	25.53	9.48	29	.11	.4	1.0	KAO		1.2X	57	5	
2003	AUG	24	2028	12.84	19	37.03	156	25.38	7.22	17	.12	9.3	11.9	DIS	-	2.0X	333	62	
2003	AUG	24	2045	26.71	19	24.54	155	16.99	7.55	27	.13	.5	.6	INT	L	1.3X	100	1	
2003	AUG	24	2128	49.02	19	21.15	155	51.27	7.52	25	.15	.9	.8	KON		1.6X	256	20	
2003	AUG	24	2354	11.43	19	58.98	155	22.29	12.62	45	.12	.7	.5	KEA		2.4X	199	11	
2003	AUG	25	0017	1.20	19	24.30	155	17.86	5.93	25	.08	.4	.6	INT	L	1.1X	55	2	
2003	AUG	25	0913	7.51	19	24.12	155	16.80	6.83	30	.13	.4	.6	INT	L	1.3X	87	1	
2003	AUG	25	0914	25.55	19	10.28	155	35.92	1.19	31	.13	.4	.5	LSW		1.4X	135	13	
2003	AUG	25	1329	18.39	19	24.25	155	17.74	6.72	26	.10	.4	.6	INT	L	1.6X	55	2	
2003	AUG	25	1554	55.53	19	12.13	155	30.25	8.63	26	.10	.5	1.1	LSW		1.3X	176	5	
2003	AUG	25	2153	28.44	19	23.69	155	16.41	4.68	20	.14	.5	.6	SEC	L	1.5X	122	1	
2003	AUG	26	1310	24.01	19	26.08	155	16.58	6.76	30	.11	.5	.5	INT	L	1.9X	111	2	
2003	AUG	26	1811	1.12	19	19.43	155	2.09	43.79	38	.10	.8	.8	DEP		1.8X	229	10	
2003	AUG	26	2020	39.55	19	27.60	155	24.99	2.17	31	.14	.3	.8	KAO		1.8X	53	5	
2003	AUG	26	2024	22.18	19	19.59	155	12.43	9.87	39	.11	.5	.4	SF2	F	5.0U	136	5	
2003	AUG	26	2044	9.80	19	20.28	155	12.72	6.72	24	.12	.5	1.0	SF2		1.3X	136	4	
2003	AUG	26	2320	55.69	19	19.21	155	12.12	8.92	42	.10	.5	.4	SF3	F	2.1X	146	5	
2003	AUG	27	0003	28.18	19	20.25	155	8.69	8.63	40	.10	.5	.6	SF4		1.9X	173	5	
2003	AUG	27	0010	47.05	19	19.80	155	8.50	8.46	43	.11	.5	.5	SF4		2.1X	180	6	
2003	AUG	27	0040	22.47	19	20.28	155	30.35	7.81	24	.11	.4	1.0	KAO		1.1X	101	6	
2003	AUG	27	0427	57.82	19	30.67	155	42.84	5.77	23	.14	.5	2.1	MLO		1.3X	105	5	
2003	AUG	27	0932	30.40	19	19.44	155	11.41	8.16	36	.11	.5	.7	SF3		1.5X	165	6	
2003	AUG	27	1047	19.64	19	14.51	155	31.42	33.87	39	.09	.7	1.2	DLS		1.8X	102	3	
2003	AUG	27	1048	32.25	19	14.52	155	31.17	34.47	37	.09	.6	1.3	DLS		1.6X	101	2	
2003	AUG	27	1049	46.10	19	24.37	155	15.96	9.72	31	.14	.5	.7	INT	L	1.8X	114	1	
2003	AUG	27	1050	21.06	19	25.34	155	16.07	6.74	18	.11	.9	.7	INT	L	1.4X	127	2	
2003	AUG	27	1416	22.98	19	16.49	155	12.23	10.04	39	.13	.6	.8	SF3		1.5X	190	11	
2003	AUG	27	1746	21.72	19	14.43	155	31.55	33.57	39	.07	.5	1.1	DLS		1.7X	102	3	
2003	AUG	27	2311	55.50	19	25.22	155	16.01	12.73	21	.13	.9	.6	INT	L	1.4X	191	3	
2003	AUG	28	0412	20.32	19	14.54	155	31.50	34.48	43	.08	.5	.9	DLS		1.8X	102	3	
2003	AUG	28	0442	28.71	19	18.85	155	12.05	7.46	32	.10	.5	.6	SF3		1.2X	154	4	

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS		
2003	AUG	28	0827	52.28	19	25.45	155	16.83	10.26	34	.09	.3	.4	INT L	2.0X	92	1		
2003	AUG	28	0913	44.52	19	18.43	155	10.99	6.68	27	.10	.6	1.1	SF3	1.4X	193	5		
2003	AUG	28	1228	13.90	19	45.87	155	34.74	15.87	17	.07	.5	.9	KEA	1.5X	107	14		
2003	AUG	28	1415	4.54	19	26.07	155	24.97	8.27	33	.12	.3	1.1	KAO	1.6X	37	7		
2003	AUG	28	1415	44.35	19	25.97	155	18.74	6.62	20	.10	.4	.8	INT	1.5X	64	2		
2003	AUG	28	2040	8.85	19	56.10	155	38.82	13.81	24	.13	.7	.7	KOH	1.6X	130	8		
2003	AUG	28	2124	33.14	19	19.32	155	11.52	6.69	32	.11	.5	.8	SF3	1.5X	155	5		
2003	AUG	28	2235	31.88	19	16.81	155	12.46	10.06	35	.10	.7	.5	SF2	1.6X	187	11		
2003	AUG	28	2357	15.33	19	17.93	155	12.74	9.83	31	.10	.7	.6	SF2	1.9X	179	9		
2003	AUG	29	0228	15.90	19	20.01	155	6.77	8.31	39	.11	.6	.5	SF4	2.3X	187	6		
2003	AUG	29	0326	51.16	19	23.14	155	2.49	8.78	30	.13	1.1	.4	SF5	1.7X	180	4		
2003	AUG	29	1227	15.60	19	27.84	155	43.84	11.61	22	.09	.6	.9	KON	1.4X	175	6		
2003	AUG	29	2339	5.02	19	19.38	155	11.46	9.56	33	.13	.6	.4	SF3	1.9X	155	6		
2003	AUG	30	0358	11.21	19	22.57	155	14.27	3.61	17	.06	.3	.3	SEC	1.2X	106	2		
2003	AUG	30	0659	43.05	19	57.46	155	31.13	34.18	24	.10	.8	1.2	KEA	1.5X	238	18		
2003	AUG	30	0746	54.12	19	22.69	155	30.49	9.09	22	.06	.5	.9	KAO	1.6X	86	5		
2003	AUG	30	1020	48.91	19	19.38	155	7.26	6.53	24	.10	.9	1.3	SF4	1.2X	195	7		
2003	AUG	30	2034	26.88	19	21.13	155	14.15	3.08	12	.17	.6	1.3	KOA	1.4X	105	4		
2003	AUG	30	2038	54.66	19	22.79	155	14.56	3.46	18	.09	.4	.4	SEC	1.8X	128	2		
2003	AUG	30	2357	41.66	19	25.70	155	29.08	10.89	30	.09	.4	.6	KAO	1.4X	62	6		
2003	AUG	31	1113	1.11	19	30.93	155	49.82	9.67	19	.17	1.0	.8	KON	1.2X	223	7		
2003	AUG	31	1248	1.77	19	10.09	155	41.04	5.38	29	.15	.5	4.5	LSW	1.9X	85	9		
2003	AUG	31	1731	9.60	19	25.92	155	16.85	4.44	38	.11	.3	.4	SNC L	1.9X	51	2		
2003	AUG	31	1831	10.71	19	19.44	155	11.35	3.75	32	.14	.5	1.5	SSF	1.1X	166	6		
2003	AUG	31	1854	10.00	19	25.10	154	46.62	8.60	28	.13	1.2	.6	LER	1.8X	297	21		
2003	AUG	31	1914	59.22	19	19.96	155	8.16	9.53	43	.09	.6	.4	SF4	2.8X	177	6		
2003	SEP	1	0614	31.57	19	23.28	155	16.94	3.32	19	.10	.4	.3	SSC	1.3X	62	0		
2003	SEP	1	1215	0.36	19	21.05	155	25.73	10.67	37	.10	.4	.7	KAO	1.5X	101	4		
2003	SEP	1	1456	35.23	19	22.98	155	14.68	3.08	23	.09	.3	.3	SEC	1.8X	103	2		
2003	SEP	1	1713	43.14	19	20.30	155	7.14	7.65	42	.11	.6	.6	SF4	2.4X	184	6		
2003	SEP	1	1718	46.26	19	20.21	155	6.95	8.58	42	.10	.6	.5	SF4	2.3X	185	6		
2003	SEP	2	0612	17.06	19	19.65	154	52.75	43.30	37	.10	.9	.8	LER	2.6X	266	15		
2003	SEP	2	0731	10.82	19	45.15	156	5.77	7.34	46	.11	.9	.6	HUA F	2.8X	246	44		
2003	SEP	2	0858	20.18	19	46.17	155	49.93	34.38	36	.09	.9	1.3	HUA	2.0X	182	9		
2003	SEP	3	0243	45.70	19	25.69	155	30.65	10.47	28	.09	.4	.7	KAO	1.4X	68	8		
2003	SEP	3	0455	31.16	19	17.73	155	12.58	8.34	38	.10	.5	.5	SF2	1.5X	170	2		
2003	SEP	3	0932	7.30	19	55.89	155	36.61	14.94	38	.13	.5	.7	KOH	2.1X	138	10		
2003	SEP	3	0937	19.83	19	18.89	155	48.90	9.88	26	.12	.8	.7	KON	1.5X	255	16		
2003	SEP	3	1804	18.49	19	25.06	155	17.14	10.10	35	.12	.5	.5	INT L	1.6X	54	0		
2003	SEP	3	1928	19.73	19	24.56	155	16.43	8.16	35	.11	.4	.4	INT L	1.6X	50	1		
2003	SEP	3	1929	35.30	19	25.06	155	16.38	12.02	26	.13	.5	.5	INT L	2.0X	62	1		
2003	SEP	3	1947	11.23	19	22.86	155	14.75	3.35	16	.07	.4	.3	SEC	1.8X	132	2		
2003	SEP	4	0439	57.03	19	19.84	155	12.40	9.48	37	.11	.5	.3	SF2	1.7X	133	5		
2003	SEP	4	1328	7.43	19	19.42	155	11.35	5.87	30	.09	.5	.9	SF3	1.7X	166	6		
2003	SEP	4	1425	5.65	19	14.09	155	26.44	8.89	24	.08	.4	.6	LSW	1.9X	135	7		

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS		
2003	SEP	4	1531	5.66	19	18.48	155	15.34	5.74	21	.12	.6	1.4	SF1	1.2X	132	4		
2003	SEP	4	1614	23.02	19	18.64	155	30.52	7.26	34	.11	.3	1.3	LSW	1.7X	69	7		
2003	SEP	4	1631	58.50	19	3.14	155	26.76	48.32	18	.09	1.4	1.7	DLS T	2.3X	210	12		
2003	SEP	4	1844	14.77	19	19.72	155	7.65	8.04	28	.10	.8	.6	SF4	1.6X	187	7		
2003	SEP	4	2024	14.82	19	5.47	155	26.48	38.95	21	.11	1.4	1.7	DLS	1.6X	276	8		
2003	SEP	4	2036	1.16	19	25.03	155	17.08	11.43	21	.10	.6	.9	INT L	1.5X	153	1		
2003	SEP	4	2112	46.16	19	25.22	155	15.84	13.23	20	.10	.6	.4	DEP L	1.6X	123	3		
2003	SEP	4	2127	44.75	19	4.74	155	29.11	46.00	13	.07	1.4	2.5	DLS T		192	9		
2003	SEP	5	0037	53.90	18	44.17	156	11.13	49.35	48	.10	1.2	1.6	DIS F	3.8X	316	61		
2003	SEP	5	1225	7.51	19	25.75	155	18.81	6.66	14	.08	.7	1.0	INT T	1.5X	86	2		
2003	SEP	5	1226	0.02	19	6.00	155	26.31	39.37	26	.13	1.0	1.9	DLS T	2.8X	189	7		
2003	SEP	5	1231	40.44	19	6.12	155	20.55	46.82	24	.12	1.2	2.1	LOI	1.4U	203	14		
2003	SEP	5	1233	6.08	19	8.00	155	26.66	38.98	14	.10	1.1	2.0	DLS	2.0X	182	3		
2003	SEP	5	1903	4.02	18	56.44	155	28.75	56.30	15	.17	2.9	2.5	DLS T		301	24		
2003	SEP	6	0133	51.44	19	24.36	155	16.70	2.24	16	.15	.5	.3	SSC	1.0X	97	1		
2003	SEP	6	0258	23.17	19	23.66	155	17.08	14.06	13	.14	1.0	1.0	DEP L	1.9X	102	1		
2003	SEP	6	0329	9.37	19	19.59	155	8.12	7.06	30	.09	.8	.8	SF4	1.5X	186	7		
2003	SEP	6	0538	47.89	19	25.34	155	17.25	7.44	26	.12	.4	.6	INT L	1.9X	69	1		
2003	SEP	6	0611	38.00	19	24.84	155	16.62	12.68	26	.12	.6	.7	INT L	1.6X	93	1		
2003	SEP	6	0616	52.01	19	24.87	155	16.63	12.22	25	.10	.6	.7	INT L	1.3X	137	1		
2003	SEP	6	0624	47.21	19	25.23	155	16.50	13.27	27	.10	.5	.5	DEP L	1.5X	97	1		
2003	SEP	6	0636	11.50	19	24.80	155	16.70	12.75	23	.12	.6	.7	INT L	1.4X	92	1		
2003	SEP	6	0641	1.81	19	25.02	155	16.78	11.71	22	.09	.6	.7	INT L	1.3X	92	2		
2003	SEP	6	0656	13.31	19	23.18	155	14.83	3.42	15	.06	.4	.4	SEC	1.2X	115	2		
2003	SEP	6	1615	6.44	19	22.60	155	27.23	10.89	31	.10	.4	.7	KAO	1.1X	79	1		
2003	SEP	6	1854	29.47	19	11.57	155	27.51	7.51	32	.16	.5	1.0	LSW	2.0X	123	4		
2003	SEP	6	1913	59.76	20	2.96	155	31.98	11.88	43	.12	.9	.6	KEA F	3.3X	196	25		
2003	SEP	7	0105	14.67	19	11.78	155	28.33	33.19	38	.07	.6	1.0	DLS	1.9X	100	4		
2003	SEP	7	0311	45.08	19	19.98	155	7.82	8.80	42	.09	.6	.5	SF4	2.3X	183	6		
2003	SEP	7	0523	34.53	20	3.73	155	29.27	5.19	22	.16	1.3	.7	KEA	1.6X	279	24		
2003	SEP	7	0820	5.06	19	23.48	155	16.88	2.72	28	.10	.3	.2	SSC	1.7X	59	0		
2003	SEP	7	1140	41.33	19	16.98	155	11.58	6.84	19	.08	1.1	.9	SF3	1.5X	259	3		
2003	SEP	7	1140	46.40	19	16.79	155	12.12	8.05	22	.12	.9	.6	SF3	1.7X	249	2		
2003	SEP	7	1216	40.67	19	25.62	155	19.05	6.40	31	.11	.4	.7	KAO	1.9X	85	3		
2003	SEP	7	1453	30.58	19	24.96	155	37.03	2.02	20	.14	.4	.5	MLO	1.9X	85	2		
2003	SEP	7	2252	20.95	20	2.08	155	31.92	9.96	25	.09	.8	.4	KEA	1.7X	196	24		
2003	SEP	7	2340	2.10	19	21.51	155	4.56	8.82	40	.09	.6	.4	SF5	1.9X	186	5		
2003	SEP	8	0014	45.67	19	17.60	155	12.71	8.34	35	.09	.4	.4	SF2	1.4X	172	2		
2003	SEP	8	0125	38.59	19	26.26	155	19.38	8.71	34	.10	.4	.6	KAO	1.4X	79	3		
2003	SEP	8	1343	52.14	19	19.35	155	8.55	6.00	35	.11	.6	.9	SF4	1.5X	204	7		
2003	SEP	8	2108	42.11	19	24.71	155	37.88	2.81	25	.14	.4	.4	MLO	1.6X	96	1		
2003	SEP	8	2138	16.77	19	23.31	155	17.07	2.98	23	.07	.3	.2	SSC	1.5X	47	0		
2003	SEP	9	0215	49.01	20	4.05	156	19.86	10.53	18	.11	7.4	10.0	KOH -	2.1X	305	58		
2003	SEP	9	0225	38.34	19	12.93	155	28.48	5.72	40	.19	.5	1.1	LSW	1.8X	97	6		
2003	SEP	9	0637	32.37	19	29.40	155	27.31	8.25	29	.10	.4	1.1	KAO	1.5X	69	5		

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	SEP	9	0851	0.45	19	22.18	155	35.81	11	22	39	.11	.4	.6	MLO	1.5X	111	5
2003	SEP	9	1211	41.52	19	23.01	155	14.43		2.27	19	.11	.3	.3	SEC	1.4X	111	2
2003	SEP	9	1634	46.12	19	53.50	155	18.42	36	39	40	.10	.8	1.3	KEA	1.9X	187	4
2003	SEP	9	1753	21.16	19	11.66	155	41.84		0.28	32	.21	.4	.3	LSW	2.1X	107	8
2003	SEP	9	1758	12.20	19	18.35	155	12.81		6.98	24	.10	.6	1.0	SF2	1.2X	143	3
2003	SEP	9	1801	27.35	19	20.75	155	10.85		8.36	36	.11	.4	.4	SF3	1.7X	145	4
2003	SEP	9	1803	12.56	19	24.23	155	17.02	12	72	22	.08	.6	.7	INT L	1.0X	88	1
2003	SEP	9	2018	31.14	19	24.89	155	16.56	11	58	19	.11	.6	.9	INT L	1.1X	117	2
2003	SEP	9	2105	13.03	19	24.73	155	16.52	13	23	23	.12	.6	.6	DEP L	1.4X	133	2
2003	SEP	9	2313	52.68	19	24.80	155	16.79	13	80	25	.11	.7	.5	DEP L	1.5X	106	0
2003	SEP	10	0023	31.78	19	23.73	155	16.68		3.49	43	.12	.2	.2	SSC F	3.2X	48	0
2003	SEP	10	0210	48.18	19	24.98	155	16.21	13	07	27	.13	.6	.7	DEP L	1.5X	120	2
2003	SEP	10	0222	22.75	19	21.17	155	6.48		8.21	42	.13	.7	.5	SF4	2.0X	177	4
2003	SEP	10	0441	36.01	19	25.09	155	16.61	13	39	23	.14	.5	.5	DEP L	1.3X	94	1
2003	SEP	10	0906	37.35	19	25.12	155	39.29		2.29	13	.08	.4	.6	MLO	.9X	120	3
2003	SEP	10	0933	13.48	19	22.10	155	14.09	12	79	39	.10	.4	.4	INT	1.6X	54	2
2003	SEP	10	1201	43.92	19	24.02	155	15.23		1.35	17	.10	.2	.5	SEC	1.3X	115	2
2003	SEP	10	1449	18.35	19	25.57	155	16.62		9.09	33	.11	.3	.4	INT L	1.6X	51	1
2003	SEP	10	1738	3.99	19	25.42	155	16.59		6.47	26	.10	.4	.6	INT L	1.3X	142	2
2003	SEP	10	1820	58.52	19	13.40	155	26.60		9.37	26	.15	.5	1.0	LSW	1.2X	125	7
2003	SEP	10	1939	26.80	19	25.49	155	16.74	10	74	31	.10	.4	.4	INT L	1.2X	94	1
2003	SEP	10	2011	24.47	19	21.93	155	4.50		7.18	26	.11	.6	.6	SF5	1.6X	182	5
2003	SEP	11	0105	7.37	19	22.11	155	25.33		8.96	38	.12	.3	.6	KAO	1.2X	57	4
2003	SEP	11	0242	59.30	19	24.06	155	29.69	10	16	33	.10	.4	.7	KAO	1.5X	72	5
2003	SEP	11	0503	23.18	19	25.01	155	16.70	10	74	32	.11	.5	.5	INT L	1.4X	93	1
2003	SEP	11	0504	58.98	19	20.52	155	5.41	36	16	30	.09	.9	.8	DEP	1.5X	193	6
2003	SEP	11	0718	20.43	19	18.73	155	8.88		6.23	36	.09	.6	.7	SF4	1.2X	193	8
2003	SEP	11	0919	31.96	19	18.27	155	7.33	40	51	47	.11	.7	.7	DEP	2.2X	190	9
2003	SEP	11	1503	18.47	19	19.22	155	13.08		7.57	39	.13	.4	.7	SF2	1.8X	124	4
2003	SEP	11	1937	23.01	19	22.74	155	30.34		9.30	33	.08	.3	.6	KAO	1.5X	84	5
2003	SEP	11	2116	2.36	19	26.87	155	14.76	30	34	33	.07	.8	.8	DEP	1.2X	107	4
2003	SEP	11	2119	14.53	19	19.49	155	7.58		6.62	27	.10	.7	.8	SF4	1.5X	191	7
2003	SEP	12	0047	34.43	19	25.43	154	56.66		7.00	20	.12	1.8	.5	LER	1.3X	259	4
2003	SEP	12	0205	32.56	19	25.44	155	19.23		5.93	38	.12	.3	.7	KAO	2.0X	46	3
2003	SEP	12	0339	34.70	19	58.97	155	30.04		8.12	27	.25	1.4	1.0	KEA	1.4X	250	19
2003	SEP	12	0353	1.98	19	12.53	155	41.66		1.90	35	.13	.4	.7	LSW	1.7X	117	10
2003	SEP	12	0744	30.12	19	24.24	155	15.39		3.24	20	.08	.3	.4	SEC	1.3X	116	2
2003	SEP	12	1034	50.27	19	24.10	155	26.86		9.62	32	.09	.3	.7	KAO	1.6X	53	3
2003	SEP	12	1039	38.21	19	19.45	155	10.87		7.76	30	.11	.6	.5	SF3	1.6X	174	6
2003	SEP	12	1141	24.43	19	24.98	155	15.94	14	82	25	.08	.6	.3	DEP L	1.6X	140	2
2003	SEP	12	1144	24.76	19	58.50	155	32.95	16	21	25	.10	.7	1.5	KEA	1.9X	167	17
2003	SEP	12	1318	17.56	19	21.72	155	12.81		3.17	12	.05	.6	.6	SER	1.5X	116	2
2003	SEP	12	1350	15.01	19	23.88	155	16.14	12	47	23	.12	.9	.9	INT L	1.5X	142	1
2003	SEP	12	1435	58.58	19	21.87	155	12.97		3.21	13	.06	.5	.4	SER	1.6X	112	1
2003	SEP	13	0007	25.75	19	23.50	155	12.71		5.16	15	.14	.8	1.0	SF2	2.0X	147	2
2003	SEP	13	0114	1.62	19	25.02	155	17.02	13	10	20	.14	.8	.8	DEP L	1.4X	138	1
2003	SEP	13	0306	15.95	19	23.26	155	14.72		3.61	16	.10	.5	.5	SEC	1.4X	118	3
2003	SEP	13	0408	29.58	19	25.17	155	16.41	10	43	23	.13	.6	.8	INT L	1.5X	98	1
2003	SEP	13	0500	12.22	19	3.24	155	30.00	42	52	22	.08	1.0	1.5	DLS	1.9X	199	12
2003	SEP	13	1141	26.48	19	25.07	155	15.69		5.40	26	.16	.4	.8	INT L	1.3X	56	2
2003	SEP	13	1313	33.10	20	3.65	155	37.71	31	30	24	.12	.9	1.4	KOH	2.3X	186	17
2003	SEP	13	2141	16.36	19	22.27	155	29.78		7.14	27	.11	.4	1.0	KAO	1.4X	83	4
2003	SEP	13	2154	16.33	19	24.92	155	16.75	12	08	31	.14	.6	.5	INT L	1.4X	99	0
2003	SEP	13	2339	13.06	19	25.23	155	14.99	14	49	27	.10	.7	.3	DEP L	1.3X	133	4
2003	SEP	14	0319	24.66	19	16.04	155	33.23		7.82	45	.13	.4	.8	LSW	2.1X	69	6
2003	SEP	14	0456	22.12	19	19.65	155	13.11		9.01	45	.12	.4	.4	SF2	2.2X	120	5
2003	SEP	14	1612	49.40	19	24.89	155	16.53	12	14	25	.09	.6	.8	INT L	1.3X	102	2
2003	SEP	14	1626	42.66	19	23.98	155	17.48	14	32	29	.10	.5	.5	DEP L	1.5X	68	2
2003	SEP	14	2013	20.95	19	24.73	155	17.63		8.16	26	.14	.6	.8	INT L	1.2X	89	1
2003	SEP	14	2240	58.28	19	18.72	155	29.89	10	24	41	.11	.3	.6	LSW	1.8X	72	7
2003	SEP	15	0129	57.52	19	23.16	155	17.13		2.98	25	.08	.3	.2	SSC	1.4X	54	1
2003	SEP	15	0151	46.59	19	24.24	155	29.69		9.45	38	.10	.3	.6	KAO	1.5X	42	5
2003	SEP	15	0234	54.69	19	24.13	155	17.29		6.76	29	.13	.4	.5	INT L	1.8X	69	1
2003	SEP	15	0318	1.06	19	20.06	155	11.66		7.35	38	.13	.5	.6	SF3	1.2X	151	5
2003	SEP	15	0640	21.09	19	36.44	155	4.58	38	25	32	.10	.6	1.1	HIL	1.6X	128	12
2003	SEP	15	0705	37.23	19	13.19	155	31.01		7.52	41	.13	.4	.9	LSW	1.9X	136	4
2003	SEP	15	1217	54.39	19	21.30	155	5.98		8.87	37	.10	.5	.5	SF4	2.2X	179	5
2003	SEP	15	1733	46.07	19	21.94	155	28.73		5.57	25	.09	.3	.7	KAO	1.2X	79	2
2003	SEP	16	0913	41.60	19	11.21	155	29.22		2.27	30	.15	.4	.7	LSW	1.5X	94	4
2003	SEP	16	1156	27.83	19	23.59	155	15.11		3.23	25	.10	.3	.4	SEC	1.7X	103	3
2003	SEP	16	1658	37.94	19	18.91	155	13.09		8.58	39	.07	.4	.5	SF2	1.3X	126	4
2003	SEP	16	1959	19.87	19	11.94	155	27.91		3.87	30	.13	.7	1.8	LSW	1.6X	131	4
2003	SEP	17	0146	10.08	19	19.80	155	12.27		8.02	43	.09	.4	.4	SF3	1.3X	136	5
2003	SEP	17	0645	35.69	19	24.86	155	16.92	11	20	33	.14	.5	.6	INT L	1.3X	96	0
2003	SEP	17	0756	20.90	19	35.65	155	56.84	15	48	41	.14	1.2	.8	KON F	2.4X	220	15
2003	SEP	17	1627	47.28	19	17.73	155	11.38		8.14	31	.10	.5	.8	SF3	1.4X	193	4
2003	SEP	17	1629	11.97	19	26.07	155	21.41	10	96	45	.11	.4	.6	KAO	2.3X	48	5
2003	SEP	17	1629	52.60	19	18.90	155	12.92		7.08	40	.12	.4	.6	SF2	1.8X	131	4
2003	SEP	17	2034	1.47	19	45.14	156	9.30	42	81	48	.11	1.0	1.5	HUA F	3.6X	254	38
2003	SEP	17	2349	46.30	19	25.17	154	50.43		9.21	41	.13	.9	.4	LER F	2.2X	279	15
2003	SEP	18	0105	18.21	19	17.32	155	13.31		6.74	27	.11	.5	.9	SF2	1.1X	147	1
2003	SEP	18	0208	49.09	19	20.68	155	12.99		8.28	40	.12	.4	.5	SF2	1.2X	117	4
2003	SEP	18	0414	28.46	19	19.21	155	12.46		8.94	38	.12	.4	.4	SF2	1.3X	139	4
2003	SEP	18	0630	37.11	19	26.51	155	16.70		8.03	23	.10	.7	.6	INT L	1.8X	121	2
2003	SEP	18	0956	57.27	19	33.08	155	51.79	10	44	22	.20	1.5	.8	KON	1.2X	233	11
2003	SEP	18	1313	57.94	19	14.18	155	26.75		7.73	25	.13	.5	1.4	LSW	1.5X	116	6
2003	SEP	18	1427	17.26	19	17.82	155	30.41		7.52	21	.13	.5	1.4	LSW	1.6X	118	5
2003	SEP	18	2024	51.72	19	20.11	155	11.94		8.24	43	.13	.5	.4	SF3 F	2.1X	138	5

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2003 SEP 19 0000  6.51 19 10.59 155 32.27  3.98 22 .15  .9 2.0 LSW    1.5X 222  8
2003 SEP 19 0441 49.55 19 19.80 155 11.71  7.73 30 .15  .7  .6 SF3    1.3X 165  6

—ORIGIN TIME (HST)— -LAT N— —LON W— DEPTH  N RMS ERH ERZ LOC         PREF AZ MIN
YEAR MON DA HRMN  SEC  DEG MIN  DEG  MIN    KM  RD SEC  KM  KM REMKS  MAG  GAP DS

2003 SEP 19 0815 34.15 19 12.14 155 14.51 50.59 23 .11 1.8 1.4 DEP L  2.0X 271  9
2003 SEP 19 1020 24.88 19 16.54 155 31.86  5.46 36 .16  .4 1.0 LSW    2.1X  74  4
2003 SEP 19 2227  2.43 19 19.83 155  4.05  7.76 43 .12  .7  .5 SF5    1.9X 203  8
2003 SEP 20 1123 28.88 19 19.60 155  8.41  9.58 35 .09  .6  .6 SF4    1.5X 184  7
2003 SEP 20 1126 18.97 19 22.29 155  2.42  7.12 36 .13  .8  .7 SF5    1.4X 193  5

2003 SEP 20 2236 36.75 19 24.15 155 17.07  1.33 17 .11  .3  .2 SSC    1.3X  96  1
2003 SEP 21 0129 11.84 19  8.22 155 32.60 43.32 50 .08  .6 1.0 DLS    2.5X 145  9
2003 SEP 21 0835 44.17 19 20.26 155 24.98 11.43 35 .10  .5  .7 SWR    1.4X  85  3
2003 SEP 21 1151 38.02 19 19.73 155 11.70  6.64 41 .12  .4  .7 SF3    1.7X 146  6
2003 SEP 21 1155 32.77 19 11.24 155 31.87 10.38 36 .13  .4  .7 LSW    2.2X 124  8

2003 SEP 21 1532 48.49 19 22.41 155 30.36 10.78 39 .09  .3  .7 KAO    1.8X  86  5
2003 SEP 21 1637 21.58 19 11.46 155 34.05  2.67 33 .13  .4  .9 LSW    1.7X 124 10
2003 SEP 21 2030 34.49 19 24.42 155 17.06  1.52 20 .09  .3  .1 SSC    1.8X  91  1
2003 SEP 21 2256  8.84 19 23.20 155 14.68  1.57 20 .09  .3  .4 SEC    1.0X 105  3
2003 SEP 21 2259 47.55 19 37.89 155 54.49 18.45 31 .10  .9 1.1 KON    1.8X 233 10

2003 SEP 22 0909 32.51 19 16.45 155 26.52  9.33 46 .13  .3  .6 LSW    2.2X 104  7
2003 SEP 22 1141 33.62 19 21.65 155 11.03  2.19 22 .10  .4  .4 SER    1.4X 140  3
2003 SEP 22 1213 50.43 19 52.24 156  5.94 41.57 39 .08 1.1 1.5 HUA    2.3X 254 44
2003 SEP 22 1725 16.73 19 34.44 156  5.83 10.33 20 .12 1.6  .9 KON    1.4X 298 36
2003 SEP 22 1821 24.87 19 25.15 155 16.25 14.86 26 .14  .9  .3 DEP L  1.3X 159  1

2003 SEP 22 1920 12.31 19 20.03 155  6.87  8.41 38 .10  .6  .5 SF4    1.7X 187  6
2003 SEP 23 0818 29.42 19 23.75 155 58.14 47.18 43 .09  .9 1.0 KON    2.4X 247 25
2003 SEP 23 0854 27.72 19 25.67 155 21.09 10.15 44 .10  .4  .5 KAO    2.2X  47  4
2003 SEP 23 1108 17.22 19 20.17 155  7.18  7.20 37 .12  .6  .8 SF4    1.6X 185  6
2003 SEP 23 1110 37.48 20 29.18 155 32.90  2.67 23 .13 6.7 4.3 DIS    1.8X 309 46

2003 SEP 23 1526  8.43 20  3.85 155 48.63 24.81 32 .12 1.1 1.4 KOH    2.3X 199  8
2003 SEP 23 1547 47.60 19 59.66 155 50.30  7.14 34 .09  .8  .5 KOH    2.1X 201 16
2003 SEP 23 1551 39.05 19 22.67 155 30.03  9.77 27 .07  .4  .9 KAO    1.3X  82  4
2003 SEP 24 0457  0.94 19 21.74 155  4.84  7.05 40 .13  .7  .5 SF5    1.7X 182  5
2003 SEP 24 0609 43.06 19 11.47 155 31.79  0.07 29 .13  .4  .3 LSW    1.5X 109  7

2003 SEP 24 1220 54.62 19 20.45 155 11.66  8.50 48 .11  .3  .4 SF3    2.3X  76  5
2003 SEP 24 1353 44.37 19 19.40 155  6.84  6.31 33 .13  .7  .9 SF4    1.3X 197  7
2003 SEP 24 1635 49.36 19 20.49 155 24.47  9.70 23 .10  .6  .8 SWR    1.1X 160  2
2003 SEP 24 1901 19.41 19 18.24 155 15.37  8.51 39 .11  .4  .5 SF1    1.7X 110  4
2003 SEP 25 0339 28.15 19 16.58 155 11.71  7.84 30 .09  .6  .7 SF3    1.2X 226  3

2003 SEP 25 0339 54.45 19 11.27 155 32.99  2.15 26 .13  .5 1.0 LSW    1.5X 117  9
2003 SEP 25 0454 55.07 19 12.69 155 32.89  3.38 28 .14  .4 1.3 LSW    1.6X 131  7
2003 SEP 25 0920 48.71 19 30.19 155 47.81  6.23 16 .19 1.7 1.0 KON    1.2X 291  3
2003 SEP 25 1444 59.30 20 51.04 154 59.30 14.49 34 .13 7.3 9.9 DIS  - 2.8X 315113
2003 SEP 25 1519 58.20 19 26.02 155 24.93  9.18 27 .12  .4 1.0 KAO    1.2X  55  8

2003 SEP 25 2227  7.84 19 20.15 155  7.64  8.35 34 .12  .7  .6 SF4    2.0X 182  6
2003 SEP 26 0041 13.77 19 23.10 155 17.25  2.68 19 .07  .3  .3 SSC    1.2X  77  1
2003 SEP 26 0043 56.22 18 55.64 155 30.33 38.58 23 .09 1.2 2.2 DLS    1.7X 254 18
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2003 SEP 26 0158  4.12 20  0.41 155 29.61 34.48 25 .11 1.2 1.4 KEA    1.6X 189 20
2003 SEP 26 0237 51.27 19 19.90 155 11.83  7.89 34 .12  .6  .4 SF3    1.8X 142  5

—ORIGIN TIME (HST)— -LAT N— —LON W— DEPTH  N RMS ERH ERZ LOC         PREF AZ MIN
YEAR MON DA HRMN  SEC  DEG MIN  DEG  MIN    KM  RD SEC  KM  KM REMKS  MAG  GAP DS

2003 SEP 26 0816 15.29 19 23.28 155 14.58  3.61 37 .11  .3  .4 SEC    2.2X  55  3
2003 SEP 26 0857 12.41 19 57.53 155 39.05  3.99 18 .15  .9 1.9 KOH    1.1X 140 11
2003 SEP 26 0924 55.30 19 18.41 155 12.99  7.86 37 .10  .4  .7 SF2    1.6X 136  3
2003 SEP 26 0928 52.88 19 18.43 155 12.87  8.75 40 .11  .5  .6 SF2    2.1X 139  3
2003 SEP 26 0929 32.88 19 17.34 155 12.29  8.83 33 .08  .5  .7 SF3    1.5X 185  2

2003 SEP 26 1320 11.68 19 54.05 155 34.33 43.66 42 .09  .7 1.0 KEA    2.0X 132 10
2003 SEP 26 1401 18.03 19  3.39 155 38.45 26.76 31 .09  .6 1.5 DLS    1.7X 143  9
2003 SEP 26 1537 31.67 19 54.64 156 40.97 13.67 27 .12 6.2 8.3 DIS    2.4X 302 98
2003 SEP 26 1819 21.16 19 25.38 155 16.45 15.14 18 .14 1.2  .5 DEP L  1.3X 217  2
2003 SEP 26 2108 17.76 19 24.97 155 16.70 11.33 27 .13  .6  .6 INT L  1.3X  92  2

2003 SEP 26 2311 24.13 19 59.43 155 28.80 43.09 32 .12 1.0 1.4 KEA    1.8X 190 18
2003 SEP 27 0033 27.15 19 23.01 154 59.54  4.35 27 .12  .8 1.4 SLE    1.3X 226  4
2003 SEP 27 0742 10.70 19 22.23 155 41.07 27.09 39 .08  .5  .8 DML    1.8X 154  2
2003 SEP 27 1037  9.01 19 23.22 155 14.29  3.82 37 .09  .3  .4 SEC    2.0X  55  2
2003 SEP 27 1129 15.97 19 18.25 155 14.40  6.78 35 .08  .4  .7 SF2    1.6X  92  3

2003 SEP 27 1424  2.17 20  3.25 155 30.26  5.45 36 .12  .7  .6 KEA    2.1X 215 27
2003 SEP 27 1436 36.91 19 16.88 155 15.56  6.66 32 .13  .6 1.1 SF1    1.1X 177  4
2003 SEP 27 1737 22.15 19 25.90 155 18.75  6.22 38 .10  .4  .6 INT    1.8X  49  2
2003 SEP 27 1739 24.32 19 25.88 155 18.77  7.09 34 .12  .4  .7 INT    2.3X  50  2
2003 SEP 27 1742 58.83 19 25.96 155 18.66  6.82 26 .10  .4  .9 INT    1.2X  88  2

2003 SEP 27 2154 39.46 19 22.89 155 30.01  8.04 33 .10  .3  .7 KAO    1.3X  81  4
2003 SEP 27 2250 34.87 19 17.23 155 29.30  8.37 44 .13  .3  .6 LSW    1.9X  80  4
2003 SEP 28 0702  0.33 19 30.65 155 40.05 30.19 25 .10  .7 1.2 DML    1.3X  91  8
2003 SEP 28 1639  2.85 19 29.22 155 13.40 10.63 36 .09  .4  .8 GLN    1.4X 104  6
2003 SEP 28 1705 16.77 19 28.80 155 13.43 10.74 39 .10  .3  .7 GLN    1.4X  65  6

2003 SEP 28 1803 56.71 19 24.26 155 16.93  9.46 27 .17  .6  .7 INT L  1.3X  86  1
2003 SEP 28 1931 34.30 19 20.15 155 51.80 12.39 35 .11  .8  .3 KON    2.1X 211 21
2003 SEP 28 2220  8.10 19 24.01 155 16.30  8.87 30 .11  .4  .5 INT L  1.6X 107  1
2003 SEP 29 0437  4.14 19 51.59 155 52.15 13.59 21 .12 1.6  .5 HUA    1.9X 276 19
2003 SEP 29 0556 51.27 19 25.00 155 16.91  5.23 29 .11  .4  .4 INT L  1.2X  96  0

2003 SEP 29 1516 44.62 19 18.73 155 15.43  7.07 35 .11  .4  .6 SF1    1.4X 101  4
2003 SEP 29 1741 23.62 19 21.13 155 18.74  2.42 16 .09  .3  .6 SWR    1.1X  80  3
2003 SEP 29 2001 58.89 19 24.81 155 15.54  2.17 22 .12  .5  .4 SNC L  1.2X 130  3
2003 SEP 29 2057 43.63 19 29.74 155 16.24 28.14 33 .07  .6  .9 DEP    1.6X  78  4
2003 SEP 30 0243 45.09 19 23.19 155 17.88 12.58 22 .20  .9  .9 INT L  1.7X  76  3

2003 SEP 30 0316 41.06 19 20.62 155  7.63  7.93 22 .10  .7  .7 SF4    1.1X 196  5
2003 SEP 30 0339 35.44 19 18.46 155 30.76  8.43 26 .11  .4  .9 LSW    1.3X 120  6
2003 SEP 30 0340 38.01 19 18.79 155 30.47  8.68 28 .10  .4 1.1 LSW    1.2X  81  7
2003 SEP 30 0517  2.21 19 40.81 156  4.49  9.31 27 .13 1.8 1.5 HUA    2.0X 240 38
2003 SEP 30 0556 46.45 19 22.58 155 17.86  0.58 18 .09  .2  .4 SSC L  1.0X  94  3

2003 SEP 30 0702 26.16 19 22.96 155 14.80  3.16 13 .08  .4  .5 SEC L  1.1X 134  2
2003 SEP 30 1101 40.92 19 23.47 155 28.52 10.49 24 .08  .4 1.0 KAO    1.4X  69  2
2003 SEP 30 1104 15.07 19 22.47 155 25.79 10.28 29 .09  .4  .7 KAO    1.4X  77  3
2003 SEP 30 1422  5.68 19 24.99 155 17.04  8.39 19 .16  .9  .7 INT L  1.3X  86  0
2003 SEP 30 1811 58.45 19 15.32 155 31.95  1.03 42 .12  .5  .4 LSW    2.2X 100 13
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—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC				PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	SEP	30	2056	22.90	19	23.61	155	16.74	14	45.22	1.0	.5	DEP	L			2.2X	61	1
2003	SEP	30	2058	39.77	19	24.08	155	17.08	11	47.23	.11	.7	INT	L			1.4X	96	1
2003	SEP	30	2356	54.68	19	14.79	155	35.73	7	75.45	.14	.4	.8	LSW			2.3X	110	10
2003	OCT	1	0007	45.13	19	14.79	155	35.29	4	14.29	.12	.3	2.4	LSW			1.6X	129	9
2003	OCT	1	0947	42.43	19	25.25	155	16.77	8	91.27	.07	.5	.5	INT	L		1.2X	101	1
2003	OCT	1	1114	51.99	19	25.19	155	16.98	11	86.23	.07	.6	.7	INT	L		1.0X	147	1
2003	OCT	1	1347	42.37	19	16.50	155	30.33	10	90.33	.10	.4	1.0	LSW			1.6X	127	3
2003	OCT	1	1411	18.06	19	23.62	155	3.06	3	38.33	.11	.5	.5	SME			1.7X	168	2
2003	OCT	1	1838	5.69	20	3.76	155	48.37	25	78.26	.12	1.0	1.4	KOH			1.9X	196	8
2003	OCT	2	0537	23.79	19	20.50	155	11.14	7	67.46	.13	.4	.4	SF3			2.1X	145	5
2003	OCT	2	0550	33.06	19	18.92	155	13.56	8	58.40	.09	.4	.6	SF2			1.3X	111	3
2003	OCT	2	0607	8.27	19	18.68	155	14.60	8	48.42	.10	.4	.5	SF1			1.5X	110	4
2003	OCT	2	0635	59.47	19	49.43	155	58.92	12	20.18	.12	1.4	.7	HUA			1.5X	245	21
2003	OCT	2	0747	7.12	19	51.09	155	41.71	32	14.40	.09	.6	1.2	KEA			2.1X	124	4
2003	OCT	2	1026	52.02	20	14.05	155	32.87	16	17.26	.12	3.6	14.3	KEA	-		1.9X	265	27
2003	OCT	2	1334	26.54	19	12.36	155	28.98	11	11.20	.08	.4	1.1	LSW			1.6X	152	5
2003	OCT	2	1533	13.25	19	31.43	155	20.65	10	86.17	.11	.7	1.0	MLO			1.1X	131	6
2003	OCT	2	1719	22.57	19	19.52	155	12.16	6	65.22	.13	1.0	1.2	SF3			1.1X	208	6
2003	OCT	2	2032	44.02	19	41.88	155	32.42	32	50.32	.07	.6	1.0	KEA			1.8X	74	12
2003	OCT	2	2154	56.45	19	19.66	155	7.42	7	47.22	.10	.8	.7	SF4			1.2X	190	7
2003	OCT	2	2326	38.44	19	45.23	155	49.86	28	28.24	.13	.9	1.7	HUA			1.3X	180	7
2003	OCT	3	0023	22.50	19	20.49	155	19.25	5	04.37	.14	.4	1.1	SWR			1.9X	51	5
2003	OCT	3	0045	12.82	19	27.65	154	57.08	0	01.17	.16	2.2	.4	SLE	F#		1.7X	228	5
2003	OCT	3	0251	59.95	19	17.49	155	12.98	8	89.32	.09	.7	.5	SF2			1.6X	165	1
2003	OCT	3	0254	7.33	19	46.27	156	6.53	7	37.20	.13	2.1	1.4	HUA			1.6X	273	30
2003	OCT	3	0538	27.34	20	8.10	155	23.69	2	55.18	.22	2.9	2.4	KEA	#		1.7X	277	28
2003	OCT	3	0706	59.12	19	25.18	155	19.95	5	64.35	.12	.4	.9	KAO			1.9X	46	3
2003	OCT	3	0851	33.99	19	19.45	154	58.90	37	95.30	.11	1.7	1.4	LER			1.7X	260	10
2003	OCT	3	1254	41.70	19	13.33	155	34.29	6	82.29	.16	.6	1.9	LSW			1.8X	130	8
2003	OCT	3	1604	2.09	20	3.81	155	37.00	33	40.42	.10	.8	1.2	KOH			2.3X	189	18
2003	OCT	3	1620	18.35	19	19.21	155	46.21	11	13.20	.11	1.5	.8	KON			1.1X	294	12
2003	OCT	3	1717	55.17	19	25.54	155	16.45	10	09.29	.14	.5	.5	INT	L		1.4X	110	2
2003	OCT	3	1720	34.04	19	19.26	155	47.74	11	12.30	.09	.7	.6	KON			1.7X	194	14
2003	OCT	3	1854	23.12	19	21.69	155	2.12	6	93.33	.11	.8	.6	SF5			1.4X	189	6
2003	OCT	3	1922	49.85	20	46.74	155	6.47	6	87.30	.13	8.9	11.2	DIS	-		2.5X	321	101
2003	OCT	4	0145	32.68	19	24.48	155	17.27	10	84.29	.11	.5	.4	INT	L		1.7X	59	1
2003	OCT	4	0228	46.64	20	1.37	155	43.83	31	47.27	.09	.9	1.5	KOH			1.7X	272	20
2003	OCT	4	0412	21.87	19	27.13	155	26.41	11	48.40	.12	.4	.7	KAO			1.9X	50	9
2003	OCT	4	0506	38.75	19	21.41	155	30.13	9	91.36	.09	.3	.6	KAO			1.6X	67	5
2003	OCT	4	0708	10.24	20	1.15	155	34.16	5	69.24	.12	.6	.9	KOH			1.5X	182	20
2003	OCT	4	0823	49.64	19	23.86	155	17.11	7	08.27	.16	.6	.7	INT	L		2.0X	79	1
2003	OCT	4	0828	19.55	19	23.32	154	43.83	45	09.50	.13	.9	.9	LER			3.4X	288	26
2003	OCT	4	1452	28.79	20	10.17	156	21.37	37	33.38	.12	1.1	2.0	DIS			2.5X	313	60
2003	OCT	4	2251	45.11	19	9.15	155	34.81	0	73.33	.12	.4	.3	LSW			1.9X	127	12
2003	OCT	5	0111	0.73	19	19.05	155	13.21	9	01.41	.11	.4	.4	SF2			1.6X	79	4

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC				PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	OCT	5	0306	34.29	19	25.18	155	16.50	7	97.28	.12	.6	.5	INT	L		1.5X	105	1
2003	OCT	5	0932	16.40	19	26.77	155	28.50	9	10.43	.10	.3	.7	KAO			2.0X	43	8
2003	OCT	5	1322	42.70	19	20.17	155	12.87	6	49.37	.13	.4	.7	SF2			1.4X	122	5
2003	OCT	5	1704	3.89	19	17.37	155	27.67	10	13.31	.10	.4	.8	LSW			1.4X	91	6
2003	OCT	5	2015	25.52	19	25.21	155	16.35	17	29.30	.15	.6	.5	DEP	L		1.9X	96	1
2003	OCT	6	0038	35.95	19	24.61	155	17.10	9	36.27	.11	.5	.5	INT	L		1.7X	73	1
2003	OCT	6	0113	11.34	19	22.91	155	14.93	2	78.17	.10	.4	.4	SEC			1.3X	130	2
2003	OCT	6	0448	41.05	19	25.91	155	20.96	10	84.34	.09	.4	.7	KAO			1.3X	81	5
2003	OCT	6	0500	22.07	19	25.79	155	16.91	9	40.30	.14	.6	.7	INT	L		1.6X	99	1
2003	OCT	6	0911	41.88	19	21.54	155	10.98	2	02.17	.10	.4	.5	SER			1.4X	142	3
2003	OCT	6	1126	46.50	19	23.69	155	1.33	1	71.38	.12	.6	.4	SME			1.5X	181	5
2003	OCT	6	1224	1.26	19	26.98	154	54.33	0	02.37	.13	1.6	.5	SLE	#		1.5X	266	8
2003	OCT	6	1424	53.26	19	19.67	155	11.38	6	47.34	.11	.4	.8	SF3			1.2X	152	6
2003	OCT	6	1709	20.15	19	36.13	155	9.50	5	94.32	.11	.4	4.4	KEA			1.4X	87	18
2003	OCT	6	1733	39.34	19	24.90	155	16.32	6	14.24	.17	.6	.7	INT	L		1.5X	116	1
2003	OCT	6	1935	48.07	19	19.63	155	9.96	7	56.38	.10	.5	.6	SF3			2.0X	170	6
2003	OCT	7	0338	45.20	19	25.79	155	16.05	7	35.32	.12	.4	.5	INT	L		1.6X	100	2
2003	OCT	7	0436	47.43	19	21.75	155	4.94	9	27.38	.10	.7	.4	SF5			2.0X	180	5
2003	OCT	7	0530	19.03	19	19.93	155	8.27	9	69.41	.09	.6	.4	SF4	F		3.0X	113	5
2003	OCT	7	0639	24.86	19	23.43	155	16.42	9	14.24	.12	.6	.6	INT	L		1.6X	93	1
2003	OCT	7	0721	33.20	19	20.25	155	10.75	8	25.43	.09	.4	.3	SF3			1.8X	153	5
2003	OCT	7	0722	9.45	19	19.81	155	10.72	8	33.29	.08	.5	.8	SF3			1.3X	160	6
2003	OCT	7	0952	54.43	19	24.11	155	16.54	4	04.33	.10	.3	.3	SSC	L		1.7X	49	0
2003	OCT	7	1206	1.18	19	35.29	155	6.58	21	72.38	.11	.5	1.6	HIL			1.8X	110	15
2003	OCT	7	1343	8.87	19	24.64	155	15.97	1	10.19	.12	.3	.5	SNC			1.9X	111	2
2003	OCT	7	1459	36.64	19	27.04	155	24.09	10	98.30	.12	.5	.9	KAO			1.4X	68	5
2003	OCT	7	1925	5.55	19	19.56	155	11.55	7	26.35	.10	.4	.6	SF3			1.3X	151	6
2003	OCT	7	2304	45.64	19	24.24	155	18.22	6	35.26	.15	.5	.7	INT	L		1.5X	47	2
2003	OCT	8	0033	13.51	19	17.39	155	14.56	6	94.43	.11	.4	.7	SF1			1.5X	130	2
2003	OCT	8	0201	54.11	19	24.25	155	17.20	7	55.27	.09	.4	.5	INT	L		1.6X	79	1
2003	OCT	8	0253	3.82	19	26.25	155	30.24	12	63.33	.10	.4	.6	KAO			1.3X	77	8
2003	OCT	8	0324	42.18	19	25.49	155	16.88	2	82.23	.09	.3	.2	SNC	L		1.6X	100	1
2003	OCT	8	0647	47.05	19	24.85	155	17.09	9	78.23	.14	.6	.8	INT	L		1.6X	52	0
2003	OCT	8	0842	29.22	19	27.01	155	19.24	7	72.24	.08	.5	.9	KAO			1.1X	117	4
2003	OCT	8	1115	11.55	20	2.35	155	32.29	10	08.28	.10	.6	.5	KEA			1.7X	192	24
2003	OCT	8	1426	14.81	19	22.75	155	13.97	3	33.28	.08	.4	.3	SER			1.7X	126	2
2003	OCT	8	1836	14.43	19	30.51	155	42.78	1	04.31	.14	.4	.5	MLO			1.7X	108	5
2003	OCT	8	2001	8.43	19	27.04	155	23.67	8	48.26	.12	.4	1.0	KAO			1.1X	98	5
2003	OCT	8	2358	48.41	19	24.46	155	17.10	7	55.36	.13	.5	.5	INT	L		2.0X	48	1
2003	OCT	9	0352	14.17	19	25.05	155	16.37	1	41.21	.07	.3	.2	SNC	L		1.7X	107	1
2003	OCT	9	1151	29.16	19	26.99	155	29.15	11	30.33	.10	.4	.9	KAO			1.5X	57	9
2003	OCT	9	1438	59.12	19	25.71	155	16.73	10	46.28	.12	.5	.5	INT	L		1.9X	95	2
2003	OCT	9	1844	38.54	19	50.36	155	0.95	43	80.44	.12	1.0	1.2	KEA			2.2X	243	15
2003	OCT	9	1929	52.13	19	26.55	155	29.73	10	35.37	.09	.3	.6	KAO			1.9X	61	8
2003	OCT	9	2122	39.59	19	18.38	155	30.54	10	11.37	.08	.4	.8	LSW			1.6X	116	6

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	OCT	10	0323	39.45	19	20.87	155	4.62	8.92	45	.12	.7	.4	SF5	F	3.2X	186	6
2003	OCT	10	0438	25.73	19	19.02	155	13.56	6.01	39	.12	.4	.9	SF2		1.4X	111	4
2003	OCT	10	0935	24.09	19	17.42	155	19.23	7.65	23	.12	.6	1.0	SWR		1.2X	164	1
2003	OCT	10	1113	57.60	19	19.55	155	7.60	8.84	31	.07	.6	.7	SF4		1.7X	212	7
2003	OCT	10	1335	52.92	19	55.94	155	35.42	12.34	21	.12	1.1	.5	KOH		1.6X	236	11
2003	OCT	10	1835	36.86	19	28.49	154	52.51	0.01	28	.14	2.1	.6	SLE	#	2.1X	273	13
2003	OCT	10	1857	12.10	19	23.56	155	14.83	3.29	37	.11	.3	.3	SEC		2.0X	106	3
2003	OCT	10	1921	1.45	19	19.30	155	11.45	5.53	36	.09	.4	.9	SF3		1.2X	157	5
2003	OCT	11	0007	57.70	19	17.14	155	26.94	52.11	44	.13	.8	1.1	DLS		2.4X	97	7
2003	OCT	11	0031	25.88	20	0.53	155	44.86	9.98	42	.11	1.3	1.7	KOH	F	2.3X	150	14
2003	OCT	11	0307	11.22	19	22.72	155	20.64	9.82	34	.10	.4	.6	KAO		1.3X	68	2
2003	OCT	11	0412	5.32	19	25.38	155	17.15	6.56	32	.13	.4	.5	INT	L	2.1X	56	1
2003	OCT	11	0421	13.19	20	8.41	155	47.01	24.56	40	.10	1.0	1.1	KOH	F	2.4X	293	1
2003	OCT	12	0106	16.66	19	22.98	155	2.62	6.99	42	.14	.7	.5	SF5		1.7X	181	4
2003	OCT	12	1542	22.26	19	25.22	155	17.03	7.41	35	.14	.4	.6	INT	L	1.4X	83	1
2003	OCT	12	1633	24.31	19	21.76	155	4.98	6.27	36	.13	.7	.8	SF5		1.4X	180	5
2003	OCT	12	1826	27.38	19	22.00	155	11.19	3.14	16	.07	.6	.4	SER		1.5X	134	2
2003	OCT	12	2107	4.00	19	17.22	155	30.11	10.00	27	.10	.4	.9	LSW		1.4X	114	4
2003	OCT	13	0010	8.09	19	11.10	155	28.12	32.30	45	.08	.6	1.0	DLS		1.9X	105	3
2003	OCT	13	0257	52.56	19	25.24	155	16.22	10.71	31	.13	.5	.4	INT	L	1.8X	102	2
2003	OCT	13	0259	54.26	19	24.15	155	17.40	8.24	41	.11	.4	.4	INT	L	2.1X	47	1
2003	OCT	13	0355	23.25	19	22.00	155	10.75	3.06	27	.12	.5	.3	SER		1.4X	134	2
2003	OCT	13	0903	37.95	19	21.62	155	4.49	7.00	31	.12	.8	.7	SF5		1.6X	234	5
2003	OCT	13	0954	14.76	19	48.49	156	8.20	11.19	27	.14	3.1	4.2	HUA		1.9X	271	50
2003	OCT	13	1105	1.40	19	38.26	155	57.93	43.54	20	.09	1.4	1.2	KON		1.6X	292	25
2003	OCT	13	1300	40.67	19	24.59	155	17.36	9.00	29	.12	.5	.6	INT	L	1.8X	49	1
2003	OCT	13	1514	33.76	19	17.74	155	15.98	7.63	34	.09	.4	.8	SF1		1.1X	153	5
2003	OCT	13	1557	35.60	19	23.04	155	14.83	3.21	20	.07	.3	.3	SEC		1.6X	107	2
2003	OCT	13	2142	8.81	19	18.90	155	15.94	33.46	45	.12	.6	.8	DEP		2.4X	102	5
2003	OCT	14	0049	57.72	19	21.85	155	10.09	2.95	25	.12	.5	.3	SER		1.6X	82	2
2003	OCT	14	0217	50.35	19	9.67	155	32.47	37.10	34	.09	.6	1.2	DLS		1.9X	123	8
2003	OCT	14	0655	25.96	19	19.77	155	12.17	8.13	41	.14	.5	.6	SF3		1.5X	138	6
2003	OCT	14	1743	22.14	19	23.54	155	17.57	2.99	36	.13	.3	.2	SSC	L	2.0X	44	2
2003	OCT	14	1813	12.19	19	52.67	155	20.31	10.64	43	.12	.7	.3	KEA		1.7X	139	1
2003	OCT	14	1900	2.16	19	26.26	155	19.32	7.38	25	.08	.4	.8	KAO		1.5X	100	3
2003	OCT	14	2039	10.29	19	24.05	155	17.31	8.60	23	.11	.6	.6	INT	L	1.9X	75	1
2003	OCT	14	2316	36.44	19	24.60	155	37.72	2.97	23	.14	.4	.4	MLO		1.7X	93	0
2003	OCT	15	0033	6.62	19	24.71	155	16.60	5.93	35	.10	.3	.4	INT	L	2.1X	53	1
2003	OCT	15	0228	48.51	19	28.90	155	27.97	4.75	25	.10	.3	2.7	KAO		1.4X	63	6
2003	OCT	15	0705	19.69	19	22.54	155	14.57	3.05	18	.08	.4	.3	SEC		1.2X	103	2
2003	OCT	15	0723	21.97	19	22.71	155	3.92	11.29	36	.13	.8	.4	SF5		1.7X	175	3
2003	OCT	15	1246	54.85	19	26.61	155	2.94	6.07	29	.14	.9	1.5	GLN		1.3X	186	5
2003	OCT	15	1441	0.27	19	29.21	155	39.83	9.85	32	.13	.4	.7	MLO		1.8X	102	7
2003	OCT	15	1524	5.12	19	14.08	156	18.50	4.45	37	.11	1.2	1.6	KON		2.3X	277	65
2003	OCT	15	1617	4.25	19	19.71	155	7.50	7.27	35	.09	.6	.8	SF4		1.2X	210	7

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	OCT	15	1620	12.36	19	19.32	155	8.54	6.84	31	.10	.6	.7	SF4		1.4X	204	7
2003	OCT	16	0031	57.23	18	17.99	155	17.11	6.88	42	.11	7.1	8.8	DIS	-	3.0X	318	86
2003	OCT	16	1654	1.14	19	26.29	155	19.47	8.21	18	.09	.5	1.1	KAO		1.3X	102	4
2003	OCT	16	1717	4.01	19	18.63	155	13.41	9.46	48	.13	.5	.4	SF2		2.3X	118	3
2003	OCT	16	1855	23.35	19	26.26	155	19.63	7.24	30	.10	.4	.7	KAO		1.8X	62	4
2003	OCT	16	2055	55.07	19	20.38	155	24.64	9.40	26	.12	.4	.5	SWR		1.5X	84	2
2003	OCT	16	2228	51.99	19	19.86	155	11.50	8.12	31	.12	.6	.5	SF3		1.6X	148	6
2003	OCT	16	2304	17.94	19	26.30	155	19.74	6.87	19	.06	.5	.9	KAO		1.5X	103	4
2003	OCT	17	0328	12.84	19	48.45	155	24.97	24.40	24	.09	.6	1.3	KEA		1.3X	86	5
2003	OCT	17	0726	34.88	19	48.23	155	24.78	24.24	48	.10	.5	1.1	KEA		2.2X	83	5
2003	OCT	17	0819	32.80	19	18.37	155	13.00	8.51	37	.12	.5	.6	SF2		1.7X	136	3
2003	OCT	17	0827	37.17	19	11.25	155	39.33	6.84	19	.10	.6	2.4	LSW		1.8X	156	18
2003	OCT	17	0900	29.42	19	19.04	155	13.51	9.33	37	.10	.6	.5	SF2		1.8X	170	7
2003	OCT	17	0901	1.94	19	17.93	155	12.65	7.54	25	.10	.6	.8	SF2		1.3X	180	2
2003	OCT	17	1329	19.57	19	22.42	155	2.59	7.19	28	.12	1.1	.6	SF5		1.5X	190	4
2003	OCT	17	1349	5.95	19	22.02	155	2.55	6.45	28	.11	.7	.7	SF5		1.2X	196	5
2003	OCT	17	1723	9.94	19	21.01	155	6.14	7.94	38	.13	.6	.7	SF4		1.5X	182	5
2003	OCT	17	1745	5.94	19	4.29	155	28.55	42.67	37	.10	1.1	1.4	DLS		1.8X	279	10
2003	OCT	17	1753	57.51	19	20.74	155	5.72	6.38	30	.10	.6	.9	SF4		1.1X	188	6
2003	OCT	17	1910	13.82	19	47.29	155	24.86	29.75	27	.09	.5	1.2	KEA		1.5X	105	5
2003	OCT	17	2308	17.21	19	16.22	155	37.76	3.54	36	.12	.7	1.8	LSW		1.7X	234	10
2003	OCT	18	0206	45.43	19	52.56	155	23.15	33.42	24	.08	.9	1.4	KEA		1.3X	126	5
2003	OCT	18	0655	40.04	19	24.22	155	37.65	2.84	17	.14	.5	.4	MLO		.9X	90	0
2003	OCT	18	0845	39.02	19	31.21	155	45.88	9.66	38	.11	.6	.3	KON		2.1X	156	1
2003	OCT	18	1237	51.45	19	19.48	155	7.85	6.82	36	.13	.6	.9	SF4		1.4X	187	7
2003	OCT	18	1938	30.44	19	28.75	155	27.90	7.59	26	.12	.4	1.5	KAO		1.2X	73	6
2003	OCT	18	1947	41.44	19	18.87	155	13.04	9.89	43	.11	.6	.4	SF2		2.6X	168	7
2003	OCT	18	2054	53.81	19	17.76	155	13.19	6.89	38	.13	.5	.6	SF2		1.5X	139	1
2003	OCT	18	2138	30.34	19	17.43	155	12.77	8.23	39	.11	.4	.5	SF2		1.4X	180	1
2003	OCT	18	2140	11.95	19	18.69	155	12.96	9.23	40	.12	.5	.4	SF2		1.6X	169	7
2003	OCT	18	2221	51.31	19	19.09	155	13.15	9.77	43	.11	.5	.5	SF2	F	2.7X	170	7
2003	OCT	18	2225	49.40	19	17.60	155	13.03	6.91	22	.09	.5	1.0	SF2		1.4X	156	1
2003	OCT	18	2318	1.55	19	25.16	155	19.06	6.14	18	.08	.4	1.0	KAO		1.1X	80	3
2003	OCT	19	0018	6.48	19	11.07	155	28.05	32.84	43	.08	.6	1.0	DLS		2.0X	107	3
2003	OCT	19	0033	2.29	19	27.86	155	24.42	3.35	21	.12	.3	1.0	KAO		1.0X	62	4
2003	OCT	19	0517	51.50	19	20.35	155	6.04	7.97	40	.11	.6	.6	SF4		2.0X	188	6
2003	OCT	19	0641	40.95	19	24.80	155	16.65	5.45	39	.13	.3	.5	INT	LF	1.8X	53	1
2003	OCT	19	0834	0.51	19	17.11	155	12.68	8.04	36	.12	.4	.5	SF2		1.5X	206	1
2003	OCT	19	2125	12.75	19	19.90	155	6.38	6.91	27	.11	.7	.9	SF4		1.3X	193	7
2003	OCT	19	2316	41.68	19	18.49	155	12.62	9.39	38	.11	.5	.4	SF2		1.8X	176	8
2003	OCT	19	2318	19.65	19	20.53	155	16.65	1.26	40	.09	.2	.3	KOA		2.3X	78	4
2003	OCT	19	2338	33.54	19	23.32	155	30.01	10.19	25	.08	.4	1.0	KAO		1.3X	78	4
2003	OCT	20	0040	28.48	19	17.67	155	12.45	7.67	40	.15	.6	.7	SF2		1.3X	177	2
2003	OCT	20	0226	7.58	19	16.97	155	12.06	7.97	34	.11	.5	.5	SF3		1.3X	207	2
2003	OCT	20	0656	39.79	19	17.58	155	12.90	8.00	43	.13	.5	.6	SF2		1.7X	165	1

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	OCT	20	1633	20.62	19	32.17	155	2.36	44.92	26	.11	.9	1.7	HIL		2.3X	150	14
2003	OCT	20	2337	35.29	19	27.98	155	49.70	7.25	35	.12	.7	.7	KON		1.8X	196	8
2003	OCT	21	0107	41.42	19	19.71	155	8.59	9.15	42	.10	.5	.4	SF4		2.0X	181	6
2003	OCT	21	0225	3.16	19	25.99	155	36.20	2.46	19	.12	.4	.4	MLO		1.1X	74	2
2003	OCT	21	0225	45.53	19	24.52	155	16.87	10.71	36	.15	.4	.5	INT	L	2.1X	51	1
2003	OCT	21	0952	41.66	19	22.83	155	14.59	2.90	19	.08	.3	.4	SEC		1.4X	106	2
2003	OCT	21	1158	47.19	19	52.30	155	21.97	28.43	39	.11	.6	1.3	KEA		1.7X	106	3
2003	OCT	21	1553	5.74	19	30.41	155	16.12	24.22	48	.10	.4	.8	DEP	F	2.8X	59	5
2003	OCT	21	1736	57.91	19	24.23	155	15.94	9.42	29	.08	.4	.3	INT	L	1.8X	94	1
2003	OCT	21	1929	29.04	19	20.25	155	5.92	6.55	29	.11	.7	1.1	SF4		1.4X	192	6
2003	OCT	21	2225	28.06	19	24.27	155	16.99	9.46	32	.11	.4	.5	INT	L	1.6X	49	1
2003	OCT	22	0627	13.91	19	24.27	155	16.51	10.38	26	.10	.6	.5	INT	L	1.7X	89	1
2003	OCT	22	1839	35.36	19	52.93	155	15.42	12.75	38	.12	1.0	.6	KEA		1.8X	213	9
2003	OCT	22	2017	39.72	19	19.97	155	18.16	2.23	25	.12	.3	.6	SWR		.9X	80	4
2003	OCT	22	2146	48.79	19	31.65	155	43.32	7.87	25	.15	.6	1.4	KON		1.2X	84	5
2003	OCT	22	2348	20.50	19	29.00	155	26.98	6.92	34	.12	.3	1.1	KAO		1.5X	64	6
2003	OCT	23	0514	20.94	19	25.32	155	18.12	11.33	23	.17	.8	1.0	INT	L	1.4X	79	1
2003	OCT	23	0742	33.17	19	28.56	155	53.58	12.59	32	.13	1.0	.5	KON		1.9X	246	24
2003	OCT	23	0858	23.81	19	22.05	155	2.24	5.20	29	.14	.8	2.0	SF5		1.2X	198	5
2003	OCT	23	0926	44.40	19	25.22	155	16.32	7.00	26	.12	.4	.6	INT	L	1.2X	110	1
2003	OCT	23	1554	37.19	19	24.43	155	16.65	8.02	35	.11	.4	.5	INT	L	2.0X	52	1
2003	OCT	23	1835	45.40	19	11.01	156	18.29	34.55	44	.11	1.1	2.3	KON		2.6X	279	57
2003	OCT	23	2216	24.21	19	28.80	155	28.05	8.02	41	.12	.3	1.0	KAO		1.4X	49	6
2003	OCT	25	0327	42.51	19	19.42	155	54.42	13.23	32	.12	1.0	.5	KON		1.9X	224	25
2003	OCT	25	0423	12.49	19	20.05	155	9.05	8.47	38	.06	.4	.3	SF4		1.5X	173	5
2003	OCT	25	1334	2.36	20	24.27	155	31.68	28.37	35	.11	1.1	4.3	KEA		2.3X	285	40
2003	OCT	25	1939	37.07	19	26.36	155	25.43	10.08	17	.08	.5	1.0	KAO		1.3U	80	7
2003	OCT	25	2014	53.70	19	49.91	155	43.64	46.55	23	.07	1.2	1.3	HUA		1.4X	209	8
2003	OCT	25	2117	51.75	19	9.42	155	35.09	0.56	31	.14	.4	.3	LSW		1.7X	129	13
2003	OCT	26	0628	43.60	19	52.44	155	33.16	31.52	29	.08	.6	1.3	KEA		1.9X	183	11
2003	OCT	26	1120	47.95	18	55.52	155	18.78	17.22	42	.11	1.0	12.1	LOI	-	2.1X	248	30
2003	OCT	26	1201	14.51	19	20.32	155	19.56	2.53	34	.09	.2	.5	SWR		1.3X	110	4
2003	OCT	26	1855	58.23	19	29.07	155	3.43	11.26	36	.10	.4	.6	GLN		1.4X	124	9
2003	OCT	26	1858	41.40	19	47.15	154	59.19	47.79	44	.12	.9	1.1	KEA		2.1X	243	10
2003	OCT	26	2101	32.35	19	11.02	155	45.74	11.93	35	.10	.7	.4	KON		1.9X	166	3
2003	OCT	26	2304	48.69	19	22.22	155	19.87	32.35	40	.11	.6	.8	DML		1.6X	70	3
2003	OCT	27	0014	17.35	19	25.43	155	16.59	11.25	29	.13	.6	.6	INT	L	1.5X	106	1
2003	OCT	27	0227	25.13	19	19.85	155	10.89	8.23	41	.12	.5	.5	SF3		1.6X	156	6
2003	OCT	27	0230	37.39	19	20.86	155	10.93	8.44	44	.12	.4	.4	SF3		2.1X	144	4
2003	OCT	27	0327	23.62	19	24.74	155	16.41	11.04	24	.12	.5	.7	INT	L	1.5X	145	1
2003	OCT	27	0606	46.79	19	20.04	155	7.23	9.23	45	.09	.5	.4	SF4		2.8X	185	6
2003	OCT	27	0607	26.89	19	19.53	155	6.95	7.94	40	.12	.6	.7	SF4		2.3X	190	7
2003	OCT	27	0714	59.57	18	57.73	155	27.74	37.95	39	.08	.9	1.2	DLS		1.9X	231	22
2003	OCT	27	0818	39.58	19	20.28	155	7.44	7.93	45	.10	.5	.4	SF4		2.2X	182	6
2003	OCT	27	1033	33.46	19	24.77	155	16.45	7.39	26	.10	.5	.5	INT	L	1.2X	103	1

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	OCT	27	1358	17.12	19	24.57	155	38.00	2.95	44	.13	.3	.3	MLO		2.4X	97	1
2003	OCT	27	1539	31.95	19	24.19	155	17.11	8.04	25	.11	.4	.5	INT	L	1.4X	87	1
2003	OCT	27	1825	34.95	19	21.96	155	12.87	3.40	15	.03	.4	.3	SER		1.1X	111	1
2003	OCT	27	1910	0.38	19	19.84	155	18.20	3.39	26	.09	.3	.7	SWR		1.3X	82	4
2003	OCT	27	2113	40.79	19	31.49	155	38.16	10.82	30	.11	.5	.7	MLO		1.6X	94	6
2003	OCT	28	0127	10.31	19	21.99	155	4.52	6.57	39	.13	.6	.7	SF5		1.5X	180	4
2003	OCT	28	0204	50.63	19	29.29	155	27.70	8.80	43	.12	.3	.9	KAO		1.5X	47	5
2003	OCT	28	0232	31.30	19	24.60	155	29.55	11.91	25	.10	.4	.6	KAO		1.0X	69	5
2003	OCT	28	1029	28.32	19	19.40	155	11.71	6.82	36	.10	.5	.8	SF3		1.5X	151	5
2003	OCT	28	1501	31.23	19	18.86	155	15.15	3.66	31	.14	.4	1.0	SSF		1.2X	95	4
2003	OCT	28	1520	7.48	19	25.37	155	14.91	13.02	29	.13	.6	.6	DEP	L	1.8X	140	4
2003	OCT	28	1520	35.54	19	24.57	155	16.59	10.85	32	.11	.5	.6	INT	L	1.9X	53	1
2003	OCT	28	1727	12.53	19	19.49	155	8.33	5.79	34	.12	.6	1.4	SF4		1.1X	186	7
2003	OCT	28	2210	7.70	19	27.10	154	54.70	0.85	33	.14	1.7	.6	SLE		1.8X	264	8
2003	OCT	28	2343	40.63	19	21.94	155	48.07	9.04	28	.13	.9	.6	KON		1.4X	243	14
2003	OCT	29	0157	20.08	18	52.21	155	31.98	38.98	35	.09	1.1	1.4	DLS		2.0X	268	19
2003	OCT	29	0204	51.59	18	54.04	155	31.59	37.59	38	.08	.9	1.3	DLS		2.1X	256	18
2003	OCT	29	0412	8.01	19	19.36	155	29.91	9.50	31	.11	.3	.8	KAO		1.0X	100	7
2003	OCT	29	0910	34.51	19	17.56	155	12.69	7.09	38	.09	.4	.7	SF2		1.4X	174	2
2003	OCT	29	1628	24.77	19	36.27	155	52.51	7.62	21	.13	1.1	.9	KON		1.2X	241	10
2003	OCT	29	1630	24.46	19	53.90	155	19.65	8.68	16	.14	1.4	.8	KEA		1.2X	293	2
2003	OCT	29	1753	22.38	19	34.12	155	6.19	24.80	36	.10	.6	1.2	HIL		1.5X	114	17
2003	OCT	29	2004	40.94	19	27.01	155	29.40	11.09	29	.11	.4	1.0	KAO		1.3X	58	9
2003	OCT	30	0346	39.02	19	16.75	155	28.41	9.67	48	.13	.4	.5	LSW	F	3.2X	87	4
2003	OCT	30	0748	29.28	19	20.86	155	12.84	9.35	44	.09	.4	.3	SF2		1.7X	117	3
2003	OCT	30	0829	25.60	19	30.94	155	16.38	24.35	38	.09	.5	.9	DEP		1.7X	61	6
2003	OCT	30	0910	31.04	19	23.29	155	16.76	3.27	45	.12	.2	.2	SSC	F	2.8X	46	0
2003	OCT	30	1826	16.58	19	19.56	155	10.50	6.23	22	.11	.7	1.1	SF3		1.2X	193	6
2003	OCT	30	1850	17.04	19	24.50	155	16.70	12.91	20	.11	.7	.8	INT	L	1.3X	124	1
2003	OCT	30	1931	27.74	19	30.28	155	16.32	25.34	46	.11	.5	.9	DEP		2.4X	58	5
2003	OCT	31	0238	46.14	19	29.52	155	26.99	5.98	17	.12	.4	1.9	KAO		1.3X	99	5
2003	OCT	31	0323	41.77	19	10.30	155	36.33	0.23	20	.13	.5	.4	LSW		1.4X	137	14
2003	OCT	31	0523	13.72	18	59.84	155	28.87	37.30	29	.09	.9	1.5	DLS		1.9X	226	18
2003	OCT	31	0604	50.39	19	21.86	155	30.00	9.22	41	.10	.3	.5	KAO		1.9X	64	4
2003	OCT	31	1100	34.81	19	21.18	155	4.33	3.53	16	.14	.9	1.5	SSF		1.3X	192	6
2003	OCT	31	1112	33.16	19	24.75	155	16.78	11.10	19	.10	.7	.9	INT	L	2.0X	121	0
2003	OCT	31	1950	52.24	19	26.90	155	29.69	9.93	26	.09	.4	1.0	KAO		1.6X	92	9
2003	OCT	31	1954	6.91	19	25.45	155	16.73	12.13	21	.11	.7	.8	INT	L	1.1X	142	2
2003	OCT	31	2100	27.66	19	59.03	155	33.20	19.78	47	.12	.6	1.9	KEA		2.3X	170	18
2003	OCT	31	2132	52.13	19	19.49	155	13.99	6.75	28	.13	.5	.8	SF2		1.6X	100	5
2003	OCT	31	2211	52.71	19	22.38	155	33.69	13.81	15	.10	.6	1.5	DML		1.8X	106	10
2003	NOV	1	0047	57.43	19	21.91	155	12.79	2.30	14	.09	.5	.4	SER		1.5X	117	1
2003	NOV	1	0829	4.18	19	22.63	155	14.20	3.61	21	.06	.3	.4	SEC		1.6X	111	2
2003	NOV	1	0830	10.57	19	19.76	155	6.38	6.23	26	.12	.8	1.4	SF4		1.5X	195	7
2003	NOV	1	0830	42.30	19	19.85	155	6.50	7.03	26	.11	.8	.9	SF4		1.8X	193	7

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	NOV	1	0831	14.37	19	20.22	155	6.69	7.73	31	.11	.8	.6	SF4			2.0X	188	6
2003	NOV	1	1025	44.54	19	19.33	155	11.75	7.11	20	.10	.7	.7	SF3			1.4X	172	5
2003	NOV	1	1932	47.51	19	31.19	155	50.07	9.57	16	.19	2.4	1.0	KON			1.1X	229	7
2003	NOV	1	2016	41.29	19	13.02	155	36.95	1.72	16	.19	.7	2.2	LSW			1.6X	134	13
2003	NOV	1	2311	39.55	19	28.15	154	52.27	1.21	38	.13	1.4	.7	SLE	F		2.3X	274	13
2003	NOV	2	0232	49.28	19	24.98	155	15.73	14.80	28	.09	.6	.4	DEP			1.3X	106	3
2003	NOV	2	0300	2.53	19	25.48	155	20.01	6.76	43	.13	.3	.7	KAO			2.0X	47	3
2003	NOV	2	0307	31.88	19	14.45	155	28.98	36.27	42	.09	.6	.9	DLS			2.0X	87	2
2003	NOV	2	0309	3.26	19	25.80	155	20.14	8.24	19	.12	.5	1.3	KAO			1.5X	94	4
2003	NOV	2	0532	12.84	19	26.58	155	29.05	8.78	21	.11	.5	1.2	KAO			1.2X	83	8
2003	NOV	2	0727	10.13	19	45.45	155	18.54	31.36	19	.09	.8	1.3	KEA			1.5X	114	15
2003	NOV	2	0850	14.93	19	27.86	155	23.97	10.23	21	.08	.4	1.0	KAO			1.3X	72	4
2003	NOV	2	2221	39.07	19	30.80	155	28.62	6.94	18	.11	.4	1.5	MLO			1.0X	71	3
2003	NOV	3	0204	33.56	19	19.89	155	12.08	5.11	19	.11	.5	1.6	SF3			1.2X	155	5
2003	NOV	3	0735	30.74	19	28.55	155	15.52	18.90	26	.11	.9	.7	DEP	L		2.5X	160	2
2003	NOV	3	1057	24.54	19	17.84	155	12.94	6.35	20	.10	1.2	1.3	SF2			1.3X	184	2
2003	NOV	3	1416	59.53	19	21.53	154	47.24	42.70	27	.12	1.8	1.6	LER			2.0X	293	21
2003	NOV	3	1953	31.20	19	25.44	155	18.04	7.70	18	.15	.7	1.2	INT	L		1.7X	77	1
2003	NOV	4	0852	43.82	19	0.75	155	24.98	39.21	15	.10	2.7	1.7	LOI			1.6X	260	27
2003	NOV	4	1108	2.04	18	49.81	155	50.41	12.83	25	.14	7.9	11.1	DIS	-		1.9X	313	59
2003	NOV	4	1154	30.32	19	12.12	155	42.27	0.06	30	.13	.4	.2	LSW	#		1.4X	119	8
2003	NOV	4	1514	10.11	19	27.34	155	25.98	7.71	31	.11	.4	1.2	KAO			1.4X	49	7
2003	NOV	4	2017	10.30	19	25.45	155	16.81	1.34	33	.10	.3	.1	SNC			2.3X	100	1
2003	NOV	4	2134	48.90	19	31.38	155	29.57	7.08	30	.13	.3	1.3	MLO			1.6X	49	4
2003	NOV	4	2135	33.77	19	31.17	155	29.68	3.91	43	.11	.3	1.0	MLO			1.9X	45	4
2003	NOV	5	0019	12.26	19	24.59	155	16.38	7.63	27	.10	.4	.4	INT	L		1.4X	103	1
2003	NOV	5	0401	8.55	19	25.71	155	55.69	45.10	49	.10	.8	1.0	KON	F		2.4X	220	19
2003	NOV	5	0552	17.69	19	22.01	155	4.73	9.56	39	.10	.6	.4	SF5			2.0X	179	4
2003	NOV	5	0632	5.24	19	24.90	155	16.27	11.54	29	.14	.6	.6	INT	L		1.3X	108	1
2003	NOV	5	0654	18.17	19	24.30	155	16.47	7.65	26	.11	.6	.5	INT	L		1.2X	120	1
2003	NOV	5	0733	32.96	19	25.59	155	16.51	8.29	37	.10	.4	.4	INT	L		2.0X	95	2
2003	NOV	5	0733	52.24	19	24.36	155	17.62	8.63	28	.12	.4	.5	INT	L		1.9X	49	1
2003	NOV	5	0858	59.04	19	25.35	155	17.05	8.52	34	.11	.4	.5	INT	L		2.0X	54	1
2003	NOV	5	1109	7.34	19	39.36	155	48.54	35.64	24	.11	.9	1.2	HUA			1.7X	155	5
2003	NOV	5	1111	39.02	19	24.85	155	17.82	7.51	35	.12	.4	.5	INT	L		1.8X	45	1
2003	NOV	5	1151	47.30	19	24.96	155	16.71	8.92	36	.11	.4	.4	INT	L		1.9X	89	1
2003	NOV	5	1324	9.92	19	24.77	155	17.68	5.48	33	.14	.4	.5	INT	L		2.1X	61	1
2003	NOV	5	1329	53.61	19	24.56	155	16.93	7.29	25	.13	.5	.5	INT	L		1.8X	86	1
2003	NOV	5	1419	5.00	19	25.42	155	16.96	7.92	32	.13	.4	.5	INT	L		1.9X	84	1
2003	NOV	5	1750	26.53	19	25.01	155	29.57	12.19	26	.11	.5	1.1	KAO			1.2X	68	6
2003	NOV	5	1800	43.46	19	24.64	155	15.70	14.53	33	.10	.6	.3	DEP	L		2.2X	55	2
2003	NOV	5	1806	56.78	19	24.20	155	17.26	12.25	30	.13	.7	.6	INT	L		1.9X	67	1
2003	NOV	5	1809	45.84	19	23.83	155	16.70	13.22	25	.12	.5	.4	DEP	L		2.0X	46	0
2003	NOV	5	1848	45.96	19	29.16	154	59.05	48.36	33	.10	1.1	1.3	LER			2.2X	186	7
2003	NOV	5	1908	34.43	19	24.01	155	16.55	6.86	34	.13	.4	.5	INT	L		2.2X	49	0
2003	NOV	5	1915	2.42	19	25.57	155	16.22	10.34	34	.11	.5	.5	INT	L		1.9X	99	2
2003	NOV	5	1920	37.72	19	25.22	155	20.40	8.57	26	.11	.4	1.0	KAO			1.2X	84	3
2003	NOV	5	1924	42.51	19	24.51	155	17.23	7.25	38	.12	.4	.5	INT	L		2.1X	59	1
2003	NOV	5	2013	55.51	19	24.42	155	16.86	5.94	30	.12	.4	.5	INT	L		1.5X	95	1
2003	NOV	5	2103	4.87	19	24.52	155	16.36	9.05	35	.13	.4	.4	INT	L		2.1X	49	1
2003	NOV	5	2222	8.75	19	25.16	155	16.77	3.36	34	.12	.3	.3	SNC	L		2.2X	89	1
2003	NOV	5	2316	44.51	19	24.89	155	16.96	9.45	31	.13	.5	.5	INT	L		1.9X	84	0
2003	NOV	6	0009	14.87	19	21.99	155	4.81	7.11	37	.13	.5	.6	SF5			1.5X	178	5
2003	NOV	6	0135	21.30	19	20.47	155	6.85	9.26	43	.10	.6	.4	SF4			2.4X	184	5
2003	NOV	6	0450	20.58	19	24.47	155	17.38	16.10	22	.12	.6	.5	DEP	L		2.6X	60	1
2003	NOV	6	0502	57.84	19	24.23	155	16.84	3.59	42	.12	.3	.2	SSC	L		2.1X	48	1
2003	NOV	6	0749	15.03	19	25.43	155	16.43	10.83	36	.12	.4	.5	INT	L		2.2X	51	1
2003	NOV	6	1108	38.46	19	24.36	155	16.31	8.75	25	.14	.4	.5	INT	L		2.3X	53	1
2003	NOV	6	1126	48.23	19	13.84	155	28.81	6.61	16	.07	.6	1.0	LSW			1.3X	178	3
2003	NOV	6	1422	31.95	20	1.35	155	18.58	11.83	22	.14	1.1	.6	KEA			1.9X	216	15
2003	NOV	6	1506	21.58	19	24.46	155	17.43	7.55	23	.09	.4	.6	INT	L		2.1X	61	1
2003	NOV	6	1624	40.14	19	25.01	155	17.87	4.26	30	.14	.3	.5	SNC	L		2.0X	53	1
2003	NOV	6	1628	15.55	19	24.71	155	16.39	7.29	38	.10	.3	.4	INT	L		2.2X	50	1
2003	NOV	6	1753	4.83	19	25.63	155	16.67	12.14	30	.12	.5	.5	INT	L		2.0X	96	1
2003	NOV	6	1940	13.18	19	25.03	155	17.34	8.94	31	.12	.4	.5	INT	L		1.9X	77	1
2003	NOV	6	2152	32.43	19	24.35	155	16.57	11.50	29	.11	.5	.5	INT	L		1.7X	90	1
2003	NOV	7	0005	3.40	19	24.58	155	17.31	11.92	30	.10	.4	.6	INT	L		1.8X	62	1
2003	NOV	7	0105	12.43	19	26.88	154	52.68	41.67	50	.10	.7	.7	LER			2.3X	268	11
2003	NOV	7	0106	45.08	19	24.42	155	16.98	10.89	23	.09	.6	.6	INT	L		1.4X	93	1
2003	NOV	7	0243	58.87	19	21.41	155	18.61	2.48	24	.07	.3	.5	SWR			1.2X	59	5
2003	NOV	7	0249	25.54	19	23.64	155	17.02	6.92	33	.11	.4	.5	INT	L		2.2X	52	1
2003	NOV	7	0310	24.47	19	24.19	155	16.97	5.52	34	.10	.3	.4	INT	L		2.0X	82	1
2003	NOV	7	0311	16.19	19	30.12	155	44.98	6.90	34	.12	.5	.6	KON			1.7X	156	2
2003	NOV	7	0411	49.29	19	24.20	155	16.98	8.42	31	.13	.5	.4	INT	L		1.6X	48	1
2003	NOV	7	0504	33.88	19	19.59	155	11.42	7.23	41	.13	.5	.6	SF3			1.5X	153	6
2003	NOV	7	0811	58.43	19	25.44	155	15.43	12.13	29	.11	.5	.4	INT	L		1.8X	100	3
2003	NOV	7	1143	27.53	19	27.11	155	56.17	16.20	20	.12	3.2	13.7	KON	-		1.1X	315	30
2003	NOV	7	1320	21.58	19	23.50	155	14.81	3.35	41	.11	.3	.4	SEC			2.5X	50	3
2003	NOV	7	1351	5.21	19	23.56	155	16.33	12.65	29	.12	.6	.6	INT	L		2.3X	90	1
2003	NOV	7	1437	33.39	19	24.60	155	16.84	10.68	32	.12	.5	.5	INT	L		1.7X	96	1
2003	NOV	7	1625	48.46	19	24.83	155	17.19	8.13	31	.13	.5	.6	INT	L		1.5X	58	0
2003	NOV	7	1639	53.49	19	24.27	155	17.18	3.58	36	.11	.3	.2	SSC	L		2.0X	48	1
2003	NOV	7	1710	5.75	18	55.51	154	57.09	49.48	49	.12	1.1	1.4	DIS	F		3.3X	277	49
2003	NOV	7	2055	1.00	19	24.76	155	16.89	10.06	33	.10	.4	.4	INT	L		1.5X	96	0
2003	NOV	7	2116	4.93	19	18.87	155	13.06	6.51	43	.10	.4	.7	SF2			1.7X	127	3
2003	NOV	7	2150	50.53	19	24.13	155	17.09	6.65	33	.13	.4	.5	INT	L		2.0X	48	1
2003	NOV	8	0056	3.59	19	13.08	155	24.55	35.49	47	.10	.6	.9	DEP			2.0X	153	9
2003	NOV	8	0135	53.82	19	28.65	155	26.55	8.94	20	.11	.5	1.1	KAO			1.3X	67	6
2003	NOV	8	0326	16.39	19	25.28	155	16.83	10.20	20	.10	.5	.6	INT	L		1.4X	123	1
2003	NOV	8	0635	29.77	19	24.72	155	16.45	12.27	20	.11	.7	.9	INT	L		1.5X	126	1

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	NOV	8	0638	34.64	19	25.50	155	29.68	9.58	35	.12	.4	1.0	KAO		1.6X	65	7
2003	NOV	8	0801	46.43	19	17.44	155	37.36	10.33	18	.12	.5	1.9	LSW		1.6X	103	9
2003	NOV	8	1056	28.33	19	17.28	155	12.54	7.04	27	.07	.6	.8	SF2		1.4X	195	2
2003	NOV	8	1141	55.36	19	23.45	155	17.40	2.93	22	.11	.3	.4	SSC	L	2.0X	44	2
2003	NOV	8	1219	11.11	19	11.39	155	31.48	7.00	23	.13	.7	1.3	LSW		1.9X	204	7
2003	NOV	8	1327	5.99	19	25.48	155	16.23	10.31	22	.13	.5	.7	INT	L	1.6X	87	2
2003	NOV	8	1343	25.24	19	16.68	155	12.23	8.13	29	.12	.7	.6	SF3		1.8X	249	2
2003	NOV	8	1839	30.72	19	24.74	155	16.64	11.54	21	.09	.7	.7	INT	L	1.2X	129	1
2003	NOV	8	1908	39.38	20	5.80	155	15.11	14.17	12	.07	2.8	1.0	KEA		1.6X	329	25
2003	NOV	8	2202	24.89	19	24.53	155	16.83	12.22	29	.14	.4	.4	INT	L	2.1X	48	1
2003	NOV	9	0008	50.77	19	28.86	156	5.95	20.56	16	.11	1.5	12.0	KON	-	1.7X	296	47
2003	NOV	9	0529	40.46	20	54.68	156	12.24	6.30	21	.12	9.4	12.1	DIS	-	2.6X	333	130
2003	NOV	9	0656	37.02	19	24.67	155	16.64	13.48	33	.11	.6	.5	DEP	L	2.3X	91	1
2003	NOV	9	0701	24.24	19	25.01	155	16.40	8.66	28	.13	.4	.4	INT	L	2.0X	94	1
2003	NOV	9	0819	58.49	19	23.28	155	15.04	3.34	19	.07	.4	.4	SEC		1.4X	108	2
2003	NOV	9	1252	33.42	19	24.33	155	16.77	10.65	27	.06	.6	.6	INT	L	1.9X	102	1
2003	NOV	9	1525	37.83	19	24.10	155	16.19	3.95	32	.11	.3	.3	SEC	L	1.9X	93	1
2003	NOV	9	1547	58.38	19	23.89	155	17.71	7.13	27	.08	.4	.6	INT	L	1.9X	73	2
2003	NOV	9	1624	4.56	19	16.98	155	7.92	45.57	39	.11	.8	.9	DEP		2.0X	219	10
2003	NOV	9	1736	57.63	19	23.71	155	16.99	6.80	34	.11	.4	.5	INT	L	1.9X	59	1
2003	NOV	9	1811	30.97	19	18.93	155	39.40	0.05	23	.13	.9	.3	LSW	#	1.6X	220	5
2003	NOV	9	2005	51.82	19	43.55	155	48.41	21.29	15	.11	1.5	1.8	HUA		1.6X	252	5
2003	NOV	9	2205	29.91	19	24.82	155	16.61	9.74	37	.12	.3	.4	INT	L	2.2X	49	1
2003	NOV	9	2345	11.72	19	24.56	155	16.35	13.78	26	.11	.6	.7	DEP	L	1.5X	103	1
2003	NOV	9	2345	50.71	19	23.68	155	17.07	5.54	24	.12	.4	.6	INT	L	1.6X	58	1
2003	NOV	10	0042	57.57	19	25.71	155	16.74	10.26	37	.09	.3	.4	INT	L	2.2X	51	2
2003	NOV	10	0824	12.75	19	25.17	155	16.50	8.07	30	.13	.5	.5	INT	L	2.1X	96	1
2003	NOV	10	0941	32.39	19	13.68	155	19.38	28.25	37	.08	.9	1.0	DEP		2.1X	219	8
2003	NOV	10	1317	51.18	19	23.11	155	14.42	2.42	19	.07	.3	.3	SEC		1.7X	112	2
2003	NOV	10	1452	48.88	19	32.69	155	36.93	9.01	38	.12	.5	.6	MLO		1.8X	136	7
2003	NOV	10	1501	8.59	19	24.15	155	17.11	9.86	32	.11	.5	.5	INT	L	2.1X	78	1
2003	NOV	10	1843	31.90	19	28.49	155	50.04	9.54	27	.15	1.1	.6	KON		1.5X	191	8
2003	NOV	10	2135	9.80	19	24.40	155	16.88	12.13	34	.12	.5	.4	INT	L	2.3X	87	1
2003	NOV	11	0154	52.34	19	19.73	155	47.85	10.75	23	.11	.9	.6	KON		1.1X	249	14
2003	NOV	11	0627	58.16	19	24.55	155	17.20	10.50	27	.09	.5	.5	INT	L	1.4X	70	1
2003	NOV	11	1019	26.76	19	20.05	155	12.03	8.36	45	.08	.4	.3	SF3		2.0X	137	5
2003	NOV	11	1312	21.79	19	19.59	155	5.44	4.82	30	.10	.6	2.8	SSF		1.5X	203	8
2003	NOV	11	1326	6.11	19	25.36	155	16.10	10.72	22	.09	.6	.7	INT	L	1.6X	94	2
2003	NOV	11	1326	21.83	19	23.41	155	16.87	11.07	18	.13	.8	1.0	INT	L	2.1X	79	1
2003	NOV	11	1507	19.69	19	22.06	155	12.87	3.58	14	.03	.4	.4	SER		1.7X	112	1
2003	NOV	11	2004	50.53	19	6.23	155	9.94	27.48	45	.11	.9	1.3	LOI		2.6X	247	21
2003	NOV	12	0224	58.77	19	25.82	155	16.81	10.41	18	.12	.7	.9	INT	L	1.4X	112	2
2003	NOV	12	0225	28.07	19	24.82	155	17.30	6.49	33	.11	.3	.5	INT	L	2.1X	63	1
2003	NOV	12	0307	2.18	19	24.35	155	17.32	11.84	33	.11	.4	.4	INT	L	1.6X	68	1
2003	NOV	12	0622	15.69	19	25.30	154	50.63	39.20	47	.11	.8	.9	LER		2.5X	272	14

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	NOV	12	0902	0.12	19	24.17	155	16.88	16.56	29	.12	.8	.8	DEP		1.5X	133	1
2003	NOV	12	1126	45.50	19	24.52	155	16.84	12.03	31	.09	.5	.5	INT	L	1.4X	95	1
2003	NOV	12	1246	29.01	19	32.08	155	53.71	8.09	18	.18	1.5	1.2	KON		1.5X	250	14
2003	NOV	12	1647	16.97	19	24.33	155	17.20	10.19	31	.11	.5	.5	INT	L	1.4X	78	1
2003	NOV	12	1739	38.01	19	24.47	155	16.71	5.27	38	.11	.4	.4	INT	L	2.1X	87	1
2003	NOV	12	1925	59.81	19	6.62	155	10.08	26.91	44	.12	1.0	1.4	LOI		1.8X	226	20
2003	NOV	12	2056	2.11	19	11.57	155	32.53	5.13	29	.12	.5	3.1	LSW		1.4X	96	8
2003	NOV	13	0130	45.50	19	28.70	155	42.58	7.45	23	.13	.6	1.5	MLO		1.4X	140	7
2003	NOV	13	0641	22.48	19	24.11	155	16.53	8.05	28	.10	.4	.4	INT	L	1.6X	97	0
2003	NOV	13	2204	56.79	19	26.54	155	28.87	9.93	20	.10	.5	1.3	KAO		1.3X	82	8
2003	NOV	13	2229	30.60	19	24.18	155	16.85	10.75	18	.12	.9	.8	INT	L	1.5X	151	1
2003	NOV	14	0036	54.49	20	1.94	155	23.40	13.48	38	.11	1.1	.7	KEA	F	3.1X	208	17
2003	NOV	14	0533	33.02	19	25.02	155	16.43	10.38	18	.11	.5	.6	INT	L	2.0X	59	1
2003	NOV	14	1525	52.92	19	18.61	155	29.88	3.83	37	.12	.3	1.7	LSW		1.8X	73	7
2003	NOV	14	2028	23.35	19	17.88	155	30.35	8.58	29	.13	.4	.8	LSW		1.7X	117	5
2003	NOV	14	2035	49.71	19	18.11	155	30.26	5.43	20	.16	.5	1.5	LSW		1.1X	113	6
2003	NOV	14	2152	32.31	19	22.60	155	14.33	3.61	17	.07	.4	.3	SEC		1.6X	106	2
2003	NOV	14	2218	23.09	19	18.65	155	13.54	6.24	18	.12	.6	1.2	SF2		1.3X	112	3
2003	NOV	14	2246	58.97	19	25.12	155	28.33	10.01	22	.10	.4	.8	KAO		1.4X	96	5
2003	NOV	15	0433	40.29	19	24.62	155	17.05	1.65	16	.12	.4	.2	SNC		1.8X	97	1
2003	NOV	15	1027	27.81	19	20.96	155	18.07	30.05	33	.07	.8	.9	DEP		1.7X	55	2
2003	NOV	15	1844	43.39	19	24.78	155	18.97	5.90	29	.10	.4	.7	INT		1.5X	74	2
2003	NOV	15	2040	2.94	19	24.54	155	16.55	7.78	27	.12	.4	.5	INT	L	1.5X	100	1
2003	NOV	16	0022	8.75	19	22.22	155	4.61	1.81	26	.10	.6	.5	SSF		1.7X	177	4
2003	NOV	16	0245	36.08	19	20.10	155	7.17	8.24	41	.11	.6	.5	SF4		1.9X	186	6
2003	NOV	16	0624	0.11	19	32.91	155	37.51	12.07	23	.12	.4	.8	MLO		1.1X	100	5
2003	NOV	16	0958	22.32	19	19.74	155	11.04	8.78	37	.07	.4	.6	SF3		1.7X	156	6
2003	NOV	16	1148	48.92	19	17.25	154	47.23	38.37	29	.11	2.1	1.2	LER		1.6X	324	25
2003	NOV	16	1859	30.86	19	16.24	155	26.46	9.61	43	.11	.3	.6	LSW		1.6X	106	7
2003	NOV	16	2200	22.41	19	21.68	155	10.79	2.57	32	.10	.4	.3	SER		1.7X	136	2
2003	NOV	16	2227	53.01	19	22.74	155	30.62	9.98	35	.10	.4	.9	KAO		1.3X	64	5
2003	NOV	16	2353	37.82	19	26.02	155	19.45	7.40	24	.08	.5	.8	KAO		1.4X	144	3
2003	NOV	17	0108	48.76	19	19.34	155	11.73	6.68	35	.11	.5	.8	SF3		1.5X	152	5
2003	NOV	17	0536	40.40	19	21.38	155	4.71	8.79	38	.12	.7	.5	SF5		1.9X	187	6
2003	NOV	17	0654	33.81	19	17.76	155	14.80	8.52	42	.14	.5	.6	SF1		1.7X	117	3
2003	NOV	17	0659	2.74	19	24.21	155	16.57	6.14	32	.10	.4	.4	INT	L	1.5X	51	1
2003	NOV	17	0923	50.63	19	26.46	155	18.71	7.27	21	.08	.5	.9	INT		1.3X	100	3
2003	NOV	17	1122	38.12	19	21.48	155	16.73	43.83	19	.09	1.1	1.2	DEP		1.7X	99	2
2003	NOV	17	1324	24.23	19	22.33	155	17.14	2.77	18	.05	.3	.4	SSC		1.1X	101	2
2003	NOV	17	1358	29.24	19	12.42	155	26.31	34.54	30	.08	.6	1.1	DLS		1.3X	138	6
2003	NOV	17	1651	51.03	19	24.35	155	16.05	1.39	16	.14	.4	.4	SEC		1.5X	114	1
2003	NOV	17	1952	21.53	19	16.43	155	27.46	9.62	46	.14	.4	.6	LSW		2.2X	97	5
2003	NOV	17	2042	26.64	19	16.29	155	27.71	9.47	31	.12	.4	.8	LSW		1.6X	96	5
2003	NOV	17	2119	50.79	20	1.64	156	7.79	7.90	20	.14	2.2	1.1	KOH		1.8X	314	48
2003	NOV	17	2132	4.22	19	24.57	155	16.97	10.76	34	.11	.5	.4	INT	L	2.2X	87	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	NOV	17	2259	37.24	19	24.59	155	16.40	13.82	32	.11	.6	.4	DEP L	1.5X	95	1
2003	NOV	17	2345	7.24	19	25.36	155	17.61	9.03	17	.13	1.1	1.5	INT L	1.4X	108	0
2003	NOV	17	2358	0.11	19	17.82	155	16.04	7.52	18	.11	.6	1.1	SF1	1.2X	166	5
2003	NOV	18	0243	10.08	19	18.27	155	48.29	10.37	17	.10	.7	1.1	KON	1.2X	190	16
2003	NOV	18	0309	21.43	19	16.06	155	7.84	41.78	23	.11	1.5	1.1	DEP	1.3X	285	10
2003	NOV	18	0929	9.30	19	24.31	155	17.34	10.25	35	.11	.4	.3	INT L	2.2X	50	1
2003	NOV	18	0934	56.08	19	24.39	155	16.74	7.85	40	.10	.3	.4	INT L	1.9X	49	1
2003	NOV	18	0941	37.48	19	25.51	155	16.75	6.74	30	.10	.4	.4	INT L	2.1X	55	1
2003	NOV	18	0959	52.95	19	24.21	155	17.00	8.13	41	.10	.3	.4	INT L	2.1X	51	1
2003	NOV	18	1014	23.97	19	24.17	155	16.70	5.42	32	.13	.4	.5	INT L	1.7X	51	1
2003	NOV	18	1019	24.13	19	24.70	155	16.99	8.22	34	.11	.4	.5	INT L	1.9X	49	0
2003	NOV	18	1038	38.76	19	24.46	155	17.06	14.69	38	.12	.5	.3	DEP L	2.2X	48	1
2003	NOV	18	1228	39.52	19	24.44	155	17.34	8.59	36	.12	.4	.5	INT L	1.9X	48	1
2003	NOV	18	1456	6.53	19	22.77	155	15.15	2.86	20	.10	.3	.3	SEC	1.3X	101	1
2003	NOV	18	1616	54.89	19	24.49	155	17.13	9.92	41	.12	.4	.4	INT L	2.2X	51	1
2003	NOV	18	1619	22.62	19	23.82	155	17.07	8.79	32	.13	.4	.6	INT L	1.5X	75	1
2003	NOV	18	1633	23.70	19	24.35	155	16.81	10.73	35	.11	.3	.4	INT L	2.1X	51	1
2003	NOV	18	1646	41.58	19	24.27	155	16.89	11.42	37	.11	.4	.5	INT L	1.8X	51	1
2003	NOV	18	1740	55.20	19	24.64	155	17.12	8.81	32	.12	.4	.6	INT L	1.4X	74	1
2003	NOV	18	1746	1.02	19	28.05	155	36.64	13.51	32	.11	.5	.6	DML L	1.9X	93	2
2003	NOV	18	1824	20.55	19	24.31	155	16.96	8.83	32	.12	.4	.5	INT L	1.7X	92	1
2003	NOV	18	2109	45.42	19	24.30	155	16.83	8.64	37	.11	.4	.4	INT L	2.2X	51	1
2003	NOV	18	2125	18.16	19	24.56	155	17.11	9.53	41	.11	.3	.4	INT L	2.0X	49	1
2003	NOV	18	2230	52.58	19	24.75	155	16.71	8.72	32	.12	.5	.5	INT L	1.6X	99	1
2003	NOV	18	2316	16.40	19	24.48	155	17.20	9.62	34	.14	.5	.5	INT L	2.2X	64	1
2003	NOV	18	2346	56.86	19	24.39	155	17.34	10.49	38	.11	.3	.4	INT L	1.9X	48	1
2003	NOV	19	0146	21.91	19	46.50	155	34.92	15.15	36	.09	.5	.5	KEA	1.7X	105	12
2003	NOV	19	0303	19.79	19	19.66	155	26.64	10.68	38	.11	.3	.7	KAO	1.6X	85	6
2003	NOV	19	0313	29.91	19	24.23	155	17.50	5.79	36	.13	.4	.5	INT L	2.1X	48	2
2003	NOV	19	0315	48.89	19	24.66	155	17.34	11.30	37	.14	.4	.5	INT L	2.1X	38	1
2003	NOV	19	0416	54.10	19	24.51	155	17.05	6.91	33	.10	.4	.5	INT L	2.1X	65	1
2003	NOV	19	0419	20.90	19	24.08	155	17.52	6.49	35	.12	.4	.6	INT L	1.9X	63	2
2003	NOV	19	0537	47.37	19	25.63	155	16.65	7.07	32	.13	.5	.6	INT L	1.7X	105	1
2003	NOV	19	0540	25.46	19	24.83	155	18.26	11.67	23	.12	.6	.8	INT L	2.2X	67	2
2003	NOV	19	0544	39.34	19	26.13	155	15.91	7.30	26	.14	.4	.6	INT L	2.1X	81	3
2003	NOV	19	0627	19.97	19	23.82	155	16.21	10.04	15	.13	1.0	.8	INT L	1.7X	174	1
2003	NOV	19	0837	36.99	19	21.52	155	29.96	8.61	22	.14	.6	.9	KAO	1.4X	88	4
2003	NOV	19	0842	13.10	18	55.23	155	12.51	40.24	28	.08	1.4	2.1	LOI	1.9X	256	38
2003	NOV	19	0932	12.55	19	24.19	155	15.89	12.61	35	.14	.4	.5	INT L	2.4X	50	1
2003	NOV	19	0934	9.18	19	24.36	155	17.77	10.66	32	.12	.4	.6	INT L	2.1X	49	2
2003	NOV	19	0940	10.83	19	24.56	155	16.18	13.88	34	.12	.6	.4	DEP L	2.2X	106	1
2003	NOV	19	1154	37.69	19	23.68	155	17.28	5.76	31	.14	.3	.6	INT L	2.2X	33	1
2003	NOV	19	1248	1.95	19	24.41	155	16.93	9.87	35	.11	.4	.4	INT L	2.1X	101	1
2003	NOV	19	1447	3.89	19	25.09	155	16.61	3.40	38	.12	.3	.2	SNC L	2.1X	50	1
2003	NOV	19	1535	59.05	19	13.20	155	24.33	34.83	32	.10	.8	1.2	DEP	1.9X	154	9

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	NOV	19	1754	38.72	19	27.14	154	54.40	0.61	31	.14	1.9	.7	SLE	1.7X	265	8
2003	NOV	19	1822	31.66	19	23.99	155	16.96	9.61	35	.11	.4	.4	INT L	2.2X	85	1
2003	NOV	19	1823	39.22	19	24.94	155	16.82	7.50	30	.12	.4	.5	INT L	1.8X	98	0
2003	NOV	19	1825	28.26	19	25.02	155	16.84	6.38	32	.14	.4	.5	INT L	2.0X	50	0
2003	NOV	19	2002	10.12	19	24.39	155	16.81	9.51	35	.12	.4	.5	INT L	2.2X	52	1
2003	NOV	19	2003	43.75	19	24.11	155	17.61	10.91	26	.11	.4	.5	INT L	1.6X	58	2
2003	NOV	19	2241	12.26	19	24.88	155	16.27	10.60	31	.11	.4	.5	INT L	2.0X	96	1
2003	NOV	20	0117	33.35	19	23.66	155	17.74	5.46	18	.09	.4	.8	INT L	1.7X	109	2
2003	NOV	20	0125	58.47	19	27.48	155	29.31	8.03	22	.14	.4	1.4	KAO	1.3X	87	9
2003	NOV	20	0159	21.76	19	24.80	155	17.34	4.38	34	.13	.3	.4	SNC	2.2X	61	1
2003	NOV	20	0307	2.39	19	25.47	155	16.70	5.18	25	.12	.4	.6	INT L	1.8X	51	1
2003	NOV	20	0351	47.67	19	19.81	155	7.25	8.10	25	.12	.9	.6	SF4	1.5X	189	6
2003	NOV	20	0706	56.86	19	24.91	155	17.24	8.67	25	.14	.5	.6	INT L	2.1X	51	0
2003	NOV	20	0912	26.77	19	24.66	155	17.16	5.45	21	.12	.5	.8	INT L	1.5X	74	1
2003	NOV	20	1047	46.74	19	24.18	155	16.68	10.80	21	.11	.6	.6	INT L	1.9X	102	1
2003	NOV	20	1434	59.91	19	24.17	155	16.88	7.12	37	.10	.3	.4	INT L	1.8X	51	1
2003	NOV	20	1435	46.15	19	24.09	155	17.03	11.25	36	.12	.4	.6	INT L	1.9X	50	1
2003	NOV	20	1541	38.14	19	24.32	155	17.27	2.48	32	.14	.3	.2	SSC L	1.5X	73	1
2003	NOV	20	1611	41.65	19	20.00	155	12.39	6.87	42	.11	.4	.6	SF2	1.6X	131	5
2003	NOV	20	1720	45.57	19	24.48	155	16.27	1.53	19	.13	.3	.3	SEC	1.5X	104	1
2003	NOV	20	1748	32.14	19	24.79	155	16.80	8.28	36	.12	.4	.5	INT L	2.0X	49	0
2003	NOV	20	2038	41.89	19	24.31	155	17.05	8.02	36	.11	.4	.5	INT L	1.8X	50	1
2003	NOV	20	2039	10.96	19	24.47	155	17.32	5.59	34	.10	.3	.5	INT L	1.8X	52	1
2003	NOV	21	0223	50.60	19	22.77	155	3.09	6.26	20	.13	1.1	1.4	SF5	1.7X	180	3
2003	NOV	21	0238	35.61	19	23.80	155	17.09	8.59	19	.18	.7	1.0	INT L	1.9X	72	1
2003	NOV	21	0240	5.88	19	24.49	155	17.81	7.72	20	.14	.6	.7	INT L	1.7X	54	2
2003	NOV	21	0245	10.04	19	25.66	155	17.73	5.67	20	.16	.6	.9	INT L	1.7X	70	1
2003	NOV	21	0423	38.90	19	26.17	155	27.87	9.53	20	.09	.5	1.2	KAO	1.1X	87	7
2003	NOV	21	0607	53.41	19	20.31	155	12.59	8.00	30	.12	.4	.5	SF2	1.5X	132	4
2003	NOV	21	1358	1.93	19	25.01	155	16.73	8.66	35	.13	.4	.5	INT L	1.9X	54	1
2003	NOV	21	1733	37.83	19	24.44	155	16.44	6.70	33	.12	.4	.4	INT L	1.8X	90	1
2003	NOV	21	2103	8.38	19	27.04	155	28.73	9.07	36	.10	.3	.9	KAO	1.5X	56	9
2003	NOV	21	2129	4.37	19	25.18	155	16.37	8.97	30	.11	.5	.4	INT L	1.7X	108	1
2003	NOV	21	2152	45.59	19	18.43	155	48.22	11.06	38	.11	.7	.4	KON	1.9X	190	15
2003	NOV	21	2300	3.40	19	20.77	155	23.18	9.55	38	.13	.4	.6	SWR	1.4X	68	1
2003	NOV	22	0034	14.05	20	5.02	155	31.54	48.15	42	.09	.9	1.2	KEA	2.4X	207	27
2003	NOV	22	0538	1.21	19	24.46	155	16.48	7.84	37	.10	.3	.4	INT L	1.9X	49	1
2003	NOV	22	0550	16.52	19	24.43	155	16.93	6.54	34	.09	.4	.4	INT L	1.6X	51	1
2003	NOV	22	0636	37.03	19	20.52	155	30.04	6.87	29	.09	.3	1.0	KAO	1.4X	95	6
2003	NOV	22	1223	43.21	19	19.28	155	6.70	1.55	28	.13	.4	.6	SSF	1.3X	199	8
2003	NOV	22	1408	8.90	19	23.74	155	3.04	3.37	38	.10	.6	.5	SME	1.9X	165	2
2003	NOV	22	1459	7.74	19	20.04	155	7.85	8.44	44	.09	.5	.5	SF4	2.1X	177	6
2003	NOV	23	0516	16.69	19	16.76	155	12.73	8.72	38	.10	.5	.5	SF2	1.6X	187	1
2003	NOV	23	1325	44.68	19	28.05	155	49.39	7.94	29	.10	.7	.5	KON	1.7X	225	8
2003	NOV	23	1911	15.77	19	47.14	155	35.29	17.61	26	.10	.6	1.9	KEA	1.3X	92	11

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	NOV	23	1928	30.17	19	24.76	155	29.45	11	26	39	.08	.3	.4	KAO	1.7X	50	5
2003	NOV	23	2044	55.06	19	45.71	155	24.26	20	00	41	.12	.5	1.3	KEA	1.9X	75	6
2003	NOV	23	2108	16.92	19	44.71	156	35.82	2	49	39	.13	4.7	2.9	DIS	2.5X	293	91
2003	NOV	23	2121	7.50	19	24.47	155	15.88	1	04	26	.13	.3	.3	SEC	1.8X	103	2
2003	NOV	23	2318	38.27	19	16.19	155	28.35	9	71	20	.13	.5	1.0	LSW	1.4X	90	4
2003	NOV	23	2326	33.02	19	28.35	155	21.43	3	05	18	.09	.5	1.0	KAO	1.5X	139	4
2003	NOV	23	2330	52.49	19	28.20	155	21.46	2	35	21	.08	.4	.7	KAO	1.5X	136	4
2003	NOV	23	2354	5.44	19	19.63	155	11.55	4	74	17	.12	.7	3.7	SSF	1.4X	170	6
2003	NOV	24	0421	53.49	19	46.32	155	51.04	40	13	15	.12	1.9	2.9	HUA	1.6X	208	30
2003	NOV	24	0504	3.35	19	19.61	155	11.52	9	50	38	.14	.4	.4	SF3	2.3X	151	6
2003	NOV	24	0715	43.06	19	52.51	155	38.18	25	94	25	.09	.7	1.2	KEA	1.6X	114	3
2003	NOV	24	1651	0.58	19	24.94	155	19.60	5	70	26	.10	.4	.8	KAO	1.5X	77	2
2003	NOV	24	1913	45.86	19	21.92	155	14.24	24	96	34	.07	.6	.7	DEP	1.8X	94	2
2003	NOV	25	0744	33.90	19	8.16	155	21.75	48	38	18	.14	1.6	2.5	LOI	1.5X	239	11
2003	NOV	25	0745	51.67	19	11.05	155	20.00	44	61	17	.08	1.1	2.3	DEP	1.6X	192	13
2003	NOV	25	0746	57.84	19	10.35	155	19.95	46	49	24	.08	1.0	1.5	DEP	1.8X	198	14
2003	NOV	25	1236	4.43	19	19.40	155	11.68	5	00	24	.10	.5	1.9	SF3	1.2X	161	5
2003	NOV	25	2138	26.66	19	20.52	155	12.88	8	85	44	.10	.4	.3	SF2	2.1X	119	4
2003	NOV	25	2255	35.90	19	19.77	155	10.89	7	11	26	.09	.5	.6	SF3	1.2X	157	6
2003	NOV	26	0121	36.65	19	24.52	155	15.67	1	03	28	.13	.2	.3	SEC	2.0X	52	2
2003	NOV	26	0121	51.37	19	24.61	155	15.71	1	02	26	.13	.3	.5	SNC	2.3X	51	2
2003	NOV	26	1303	29.17	19	21.13	155	4.77	6	22	19	.13	1.1	1.5	SF5	1.4X	189	6
2003	NOV	26	1422	4.43	19	22.87	155	30.11	9	16	28	.10	.4	1.0	KAO	1.9X	81	4
2003	NOV	26	1650	19.65	19	19.69	155	7.68	7	14	23	.09	.8	1.0	SF4	1.5X	188	7
2003	NOV	27	0111	59.84	19	24.51	155	15.89	1	46	16	.07	.3	.4	SEC	1.9X	119	2
2003	NOV	27	0214	48.62	19	24.08	155	3.02	4	35	24	.11	.7	.8	SME	2.0X	160	2
2003	NOV	27	0604	35.96	19	24.59	155	15.62	0	87	18	.12	.3	.4	SNC	2.1X	126	2
2003	NOV	27	1136	3.65	19	11.35	155	36.07	6	29	46	.16	.4	.9	LSW	2.9X	95	12
2003	NOV	27	1948	56.84	19	26.57	155	28.97	10	65	34	.12	.4	.6	KAO	1.3X	58	8
2003	NOV	27	2132	56.10	19	24.29	155	1.54	5	09	15	.07	.7	1.0	SF5	1.2X	166	4
2003	NOV	28	0557	54.39	19	19.03	155	13.31	7	70	28	.10	.5	.6	SF2	1.6X	119	4
2003	NOV	28	1225	49.19	19	11.40	155	39.24	1	52	17	.12	.6	.8	LSW	1.4X	152	12
2003	NOV	28	1641	3.97	19	36.22	155	19.38	12	73	31	.10	.5	.9	KEA	1.5X	122	14
2003	NOV	29	0644	1.68	19	21.97	155	12.79	3	29	17	.08	.4	.3	SER	1.1X	96	1
2003	NOV	29	2111	2.62	19	24.10	155	37.44	2	64	19	.20	.5	.4	MLO	1.2X	86	1
2003	NOV	29	2242	44.47	19	26.40	155	19.19	6	56	37	.12	.4	.7	KAO	2.0X	102	3
2003	NOV	29	2243	14.01	19	26.28	155	19.06	6	91	43	.09	.3	.6	KAO	2.5X	49	3
2003	NOV	29	2314	19.85	19	13.05	155	33.76	8	29	28	.12	.4	.8	LSW	1.4X	121	7
2003	NOV	30	1014	34.20	19	24.88	155	29.33	9	59	44	.09	.3	.6	KAO	1.7X	67	5
2003	NOV	30	1015	17.44	19	25.55	155	29.70	10	55	40	.10	.4	.8	KAO	1.5X	65	7
2003	NOV	30	1151	46.64	19	26.53	155	29.81	9	73	36	.09	.4	.8	KAO	1.4X	61	8
2003	NOV	30	1237	53.97	19	53.13	156	27.78	66	01	19	.10	10.5	3.8	DIS	2.5X	302	76
2003	NOV	30	1638	43.04	19	34.07	155	54.94	27	10	27	.12	1.6	1.2	KON	2.0X	260	16
2003	NOV	30	2315	25.66	19	24.80	154	58.55	5	24	36	.10	1.1	.5	LER	2.6X	251	1
2003	NOV	30	2324	9.52	19	18.64	155	25.47	9	34	33	.10	.4	.6	LSW	1.1X	97	5

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	DEC	1	0056	18.04	19	57.65	156	42.33	35	16	30	.13	2.0	3.5	DIS	2.5X	305	99
2003	DEC	1	0349	2.33	19	20.75	155	3.95	5	98	37	.13	.6	1.0	SF5	1.3X	200	7
2003	DEC	1	0612	2.71	19	10.89	155	34.71	1	48	28	.12	.9	.8	LSW	1.5X	230	11
2003	DEC	1	0620	45.14	19	10.28	155	35.99	4	34	32	.12	.4	1.9	LSW	1.9X	136	14
2003	DEC	1	0957	31.46	19	21.50	155	9.87	3	46	41	.10	.4	.5	SER	2.1X	147	2
2003	DEC	2	0042	52.23	19	17.66	155	30.32	9	29	32	.10	.3	.8	LSW	1.4X	86	5
2003	DEC	2	0216	20.54	19	21.55	155	11.10	2	35	18	.08	.4	.5	SER	1.3X	134	3
2003	DEC	2	0412	45.21	19	23.19	155	7.84	3	00	41	.10	.5	.3	SER	1.6X	144	0
2003	DEC	2	0519	27.63	19	24.13	155	16.74	14	15	35	.09	.4	.3	DEP	1.4X	86	0
2003	DEC	2	0639	53.56	19	3.39	156	16.79	4	03	32	.14	4.2	3.8	KON #	1.9X	296	65
2003	DEC	2	1521	44.27	19	19.87	155	10.73	9	88	47	.11	.5	.4	SF3 F	3.0X	158	5
2003	DEC	2	1705	48.07	19	3.28	155	27.86	37	52	39	.13	.9	1.4	DLS T	2.0X	277	11
2003	DEC	3	0512	35.09	19	20.34	155	7.41	8	24	46	.10	.5	.5	SF4	2.1X	177	5
2003	DEC	3	0639	18.26	20	5.25	155	33.34	38	50	42	.10	.8	1.2	KEA	2.1X	206	24
2003	DEC	3	1245	52.89	19	27.65	155	29.59	8	94	26	.10	.4	1.3	KAO	1.2X	55	9
2003	DEC	3	1256	53.83	20	56.41	155	38.11	7	00	33	.12	8.6	10.5	DIS -	2.7X	325	91
2003	DEC	3	1443	19.19	19	15.96	155	27.51	8	51	32	.13	.4	.9	LSW	1.4X	99	5
2003	DEC	3	1841	26.81	19	18.03	155	12.99	7	72	31	.09	.5	.8	SF2	1.4X	143	2
2003	DEC	3	1859	17.75	19	9.25	155	32.94	0	02	29	.12	.5	.2	LSW #	1.5X	128	9
2003	DEC	3	2338	54.82	19	28.48	155	26.82	8	83	35	.12	.4	1.0	KAO	1.5X	55	7
2003	DEC	4	0041	47.17	19	13.49	155	24.70	34	09	30	.10	.8	1.1	DEP F	1.5X	147	9
2003	DEC	4	0143	4.55	19	14.88	155	34.25	11	95	30	.11	.4	1.2	LSW	1.2X	120	7
2003	DEC	4	0518	38.13	19	33.50	155	55.20	16	34	33	.12	1.1	1.5	KON	2.2X	261	17
2003	DEC	4	0804	45.81	19	25.63	155	29.91	10	26	36	.09	.3	.8	KAO	1.5X	65	7
2003	DEC	4	1258	20.15	19	21.74	155	12.73	2	94	25	.08	.3	.3	SER	1.4X	114	2
2003	DEC	4	1418	20.21	19	21.26	155	4.76	5	53	28	.13	.9	1.1	SF5	1.5X	188	6
2003	DEC	4	1640	17.09	19	21.56	155	49.75	12	09	37	.11	.8	.3	KON	1.9X	201	17
2003	DEC	4	1709	3.84	19	19.87	155	12.39	5	67	35	.12	.4	.9	SF2	1.4X	140	5
2003	DEC	5	0053	58.06	19	7.17	155	28.78	27	77	25	.09	1.0	1.5	DLS	1.5X	269	5
2003	DEC	5	0329	7.48	19	24.46	155	16.43	7	99	32	.12	.4	.5	INT L	1.6X	67	1
2003	DEC	5	0330	42.69	19	25.98	155	16.13	10	36	26	.11	.5	.4	INT L	1.7X	127	3
2003	DEC	5	0339	37.25	19	24.68	155	16.42	9	25	32	.13	.5	.6	INT L	1.7X	103	1
2003	DEC	5	0404	9.16	19	12.56	155	37.70	5	22	43	.16	.4	1.2	LSW	1.9X	90	14
2003	DEC	5	0420	32.72	19	24.68	155	16.94	7	38	32	.12	.4	.5	INT L	2.1X	94	0
2003	DEC	5	0533	2.28	19	25.03	155	16.70	11	47	24	.10	.6	.7	INT L	1.9X	101	1
2003	DEC	5	0630	25.08	19	24.39	155	16.65	6	48	19	.10	.5	.6	INT L	1.9X	97	1
2003	DEC	5	0659	7.49	19	25.05	155	17.24	9	38	26	.11	.5	.6	INT L	2.2X	49	1
2003	DEC	5	0713	59.83	19	25.29	155	16.67	11	41	29	.11	.5	.6	INT L	1.8X	50	1
2003	DEC	5	0726	17.82	19	19.98	155	11.31	8	22	27	.10	.4	.4	SF3	1.4X	158	6
2003	DEC	5	0729	26.02	19	25.42	155	17.04	8	57	29	.13	.4	.6	INT L	1.8X	82	1
2003	DEC	5	0807	37.76	19	24.83	155	17.41	9	78	29	.11	.4	.5	INT L	1.9X	42	1
2003	DEC	5	0841	0.77	19	25.75	155	24.20	8	89	39	.12	.3	.7	KAO	2.0X	41	8
2003	DEC	5	0910	2.67	19	24.73	155	16.87	8	80	31	.10	.4	.5	INT L	1.7X	96	0
2003	DEC	5	0916	24.91	19	23.00	155	14.74	3	15	24	.08	.3	.3	SEC	1.7X	130	2
2003	DEC	5	0953	32.41	19	25.28	155	16.68	9	22	29	.12	.5	.7	INT L	1.8X	112	1

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	DEC	5	1005	36.77	19	23.24	155	14.66		3.51	18	.07	.3	.4	SEC	1.4X	118	3
2003	DEC	5	1018	11.42	19	23.41	155	14.63		3.66	35	.10	.3	.4	SEC	1.9X	108	3
2003	DEC	5	1052	27.09	19	25.13	155	16.53		9.03	33	.11	.4	.6	INT L	2.2X	105	1
2003	DEC	5	1142	51.96	19	28.81	155	53.39		13.05	33	.13	1.0	.5	KON F	2.4X	245	24
2003	DEC	5	1150	26.00	19	24.57	155	16.57		10.50	35	.10	.4	.4	INT L	2.0X	89	1
2003	DEC	5	1157	51.68	19	31.70	155	20.80		12.07	41	.11	.5	.7	MLO	1.6X	59	6
2003	DEC	5	1246	55.50	19	24.99	155	16.74		10.23	36	.13	.4	.4	INT L	2.1X	50	0
2003	DEC	5	1350	41.05	19	24.92	155	16.91		10.11	30	.11	.5	.6	INT L	1.9X	96	0
2003	DEC	5	1506	53.04	19	24.97	155	16.35		9.83	33	.10	.4	.6	INT L	2.0X	99	1
2003	DEC	5	1557	45.06	19	24.99	155	16.60		9.09	35	.12	.5	.6	INT L	2.1X	62	1
2003	DEC	5	1637	7.06	19	24.14	155	15.72		3.31	29	.10	.3	.2	SEC	2.0X	100	2
2003	DEC	5	1649	8.34	18	46.36	155	15.22		47.49	21	.10	2.5	2.6	LOI	1.8X	291	50
2003	DEC	5	1706	20.04	19	24.70	155	16.35		9.89	37	.10	.5	.5	INT L	1.6X	93	1
2003	DEC	5	1825	33.00	19	25.46	155	16.57		8.08	35	.09	.3	.5	INT L	1.7X	55	1
2003	DEC	6	0134	53.96	19	21.71	155	5.11		8.17	41	.09	.6	.4	SF5	2.1X	180	5
2003	DEC	6	0720	2.92	19	25.33	155	16.55		11.60	34	.13	.4	.4	INT L	1.6X	92	1
2003	DEC	6	0758	13.07	19	24.29	155	17.21		8.63	33	.13	.5	.5	INT L	1.5X	71	1
2003	DEC	6	0823	16.64	19	24.96	155	16.57		9.45	30	.10	.4	.6	INT L	1.8X	103	1
2003	DEC	6	0856	49.00	19	24.01	155	17.01		7.67	33	.10	.4	.5	INT L	1.9X	84	1
2003	DEC	6	0906	27.46	19	25.05	155	16.91		10.05	32	.11	.5	.5	INT L	1.7X	61	0
2003	DEC	6	0925	24.28	19	24.32	155	16.83		12.50	34	.11	.5	.5	INT L	1.8X	58	1
2003	DEC	6	0959	19.88	19	25.06	155	16.71		10.70	34	.10	.4	.5	INT L	2.0X	50	1
2003	DEC	6	1038	37.60	19	25.58	155	16.35		8.91	33	.14	.5	.6	INT L	1.9X	123	2
2003	DEC	6	1130	25.87	19	24.95	155	17.16		7.50	36	.10	.4	.5	INT L	1.8X	52	0
2003	DEC	6	1156	41.20	19	24.77	155	16.75		9.44	32	.10	.5	.6	INT L	1.5X	98	0
2003	DEC	6	1232	41.80	19	25.05	155	16.95		9.39	31	.08	.4	.6	INT L	1.7X	96	0
2003	DEC	6	1316	5.42	19	25.27	155	16.36		10.25	38	.13	.5	.6	INT L	2.0X	96	1
2003	DEC	6	1438	7.12	19	25.13	155	17.20		9.42	33	.11	.5	.6	INT L	1.6X	91	1
2003	DEC	6	1516	58.52	19	24.44	155	16.88		8.80	33	.10	.4	.5	INT L	1.9X	94	1
2003	DEC	6	1552	27.02	19	25.08	155	16.45		10.46	34	.12	.4	.4	INT L	1.8X	54	1
2003	DEC	6	1727	9.78	19	25.56	155	16.97		9.00	33	.10	.4	.4	INT L	1.8X	50	1
2003	DEC	6	1746	9.44	19	24.98	155	16.73		9.29	34	.14	.4	.6	INT L	2.1X	50	0
2003	DEC	6	1807	26.22	19	25.23	155	16.47		7.27	32	.12	.4	.5	INT L	1.9X	64	1
2003	DEC	6	1834	55.00	19	24.42	155	17.21		6.37	36	.15	.4	.5	INT L	1.8X	48	1
2003	DEC	6	1857	48.88	19	24.69	155	16.49		7.79	31	.12	.4	.5	INT L	1.4X	106	1
2003	DEC	6	1918	52.50	19	25.40	155	16.83		8.72	33	.10	.4	.4	INT L	1.6X	87	1
2003	DEC	6	1951	54.82	19	24.91	155	17.36		8.78	30	.10	.5	.6	INT L	1.7X	77	1
2003	DEC	6	2005	16.87	19	24.27	155	17.47		9.26	31	.14	.5	.6	INT L	1.5X	60	1
2003	DEC	6	2025	57.78	19	24.96	155	16.38		6.55	34	.11	.4	.5	INT L	1.6X	106	1
2003	DEC	6	2125	34.06	19	18.34	155	15.12		9.01	45	.12	.4	.4	SF1	2.2X	101	4
2003	DEC	6	2345	13.57	19	19.00	155	15.03		8.59	45	.10	.4	.4	SF1	1.9X	88	5
2003	DEC	7	0304	44.91	19	18.23	155	13.72		7.88	33	.09	.5	.7	SF2	1.3X	104	2
2003	DEC	7	0502	35.29	19	20.09	155	7.58		7.80	42	.11	.6	.6	SF4	1.9X	183	6
2003	DEC	7	0823	27.62	19	24.40	155	16.38		13.46	35	.14	.5	.4	DEP L	1.9X	49	1
2003	DEC	7	1800	4.80	19	19.91	155	10.72		8.20	39	.11	.5	.6	SF3	1.5X	158	5

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	DEC	7	1827	26.97	19	24.53	155	16.55		8.92	28	.10	.4	.6	INT L	1.4X	100	1
2003	DEC	7	2236	23.82	19	20.49	155	8.28		8.06	38	.10	.6	.5	SF4	1.4X	173	5
2003	DEC	7	2258	33.34	19	23.22	155	3.38		3.02	31	.12	.6	.5	SME	1.2X	172	2
2003	DEC	8	0030	7.70	19	22.43	155	2.36		8.36	39	.15	.8	.5	SF5	1.6X	190	5
2003	DEC	8	0031	35.86	19	11.62	155	35.00		1.79	31	.14	.4	.7	LSW	2.0X	130	11
2003	DEC	8	0138	5.75	19	24.92	155	17.37		7.85	31	.13	.4	.5	INT L	1.9X	53	1
2003	DEC	8	0239	19.12	19	24.18	155	17.51		12.05	37	.11	.3	.4	INT L	2.0X	47	2
2003	DEC	8	0733	38.32	19	24.14	155	16.73		9.63	32	.11	.5	.5	INT L	1.8X	57	0
2003	DEC	8	0804	8.05	19	24.34	155	16.66		8.18	34	.09	.4	.5	INT L	2.1X	96	1
2003	DEC	8	0832	55.68	19	25.06	155	16.00		5.09	30	.14	.4	.6	INT L	1.8X	120	2
2003	DEC	8	0852	17.72	19	23.97	155	16.92		9.63	32	.11	.5	.5	INT L	1.7X	85	1
2003	DEC	8	1308	12.74	19	25.68	155	16.63		9.31	24	.14	.7	.7	INT L	2.0X	116	2
2003	DEC	8	1433	36.75	19	21.34	155	2.34		7.69	21	.12	1.2	.7	SF5	1.6X	206	6
2003	DEC	9	0526	52.36	19	24.53	155	17.90		9.71	23	.12	.5	.7	INT L	1.9X	48	2
2003	DEC	9	0537	15.87	19	24.62	155	16.82		7.06	18	.11	.4	.7	INT L	1.6X	67	1
2003	DEC	9	0610	11.02	18	59.68	155	33.15		40.87	28	.09	1.0	1.3	DLS	1.8X	217	13
2003	DEC	9	0639	29.40	19	25.69	155	17.04		11.05	22	.11	.5	.6	INT L	2.3X	73	1
2003	DEC	9	0708	19.69	19	25.29	155	16.79		9.09	20	.13	.6	.7	INT L	2.2X	125	1
2003	DEC	9	0743	47.77	19	25.07	155	16.74		11.31	23	.09	.6	.8	INT L	2.0X	71	1
2003	DEC	9	0820	16.29	19	23.63	155	16.76		11.82	25	.15	.6	.5	INT L	2.2X	60	1
2003	DEC	9	0858	40.70	19	24.53	155	16.57		9.73	21	.13	.6	.7	INT L	1.9X	107	1
2003	DEC	9	0932	18.80	19	25.30	155	18.04		8.03	16	.13	.6	.9	INT L	1.5X	74	1
2003	DEC	9	1418	21.42	19	23.80	155	47.09		12.80	13	.15	1.6	1.2	KON	1.5X	260	13
2003	DEC	9	1534	4.50	20	1.24	155	23.81		14.17	16	.19	1.5	.6	KEA	2.0X	205	16
2003	DEC	9	1657	20.40	19	25.09	155	19.30		6.40	29	.11	.4	.8	KAO	1.9X	44	3
2003	DEC	9	2255	18.00	19	24.62	155	46.85		12.41	16	.10	1.2	.6	KON	1.5X	248	11
2003	DEC	10	0714	54.90	19	24.46	155	29.65		8.34	30	.11	.4	.8	KAO	1.6X	118	5
2003	DEC	10	0749	38.05	19	19.09	155	45.22		9.56	25	.12	.9	1.1	KON	1.8X	191	10
2003	DEC	10	0811	1.09	19	19.59	155	6.88		8.62	32	.10	.8	.5	SF4	1.9X	194	7
2003	DEC	10	0838	9.32	19	24.19	155	16.77		5.09	21	.10	.3	.5	INT L	2.0X	88	1
2003	DEC	10	0846	51.75	19	35.07	155	44.17		1.53	15	.09	.5	1.2	KON	1.2X	127	9
2003	DEC	10	1004	58.45	19	22.06	155	13.81		2.85	11	.09	.5	.5	SER	1.7X	98	2
2003	DEC	10	1225	37.63	19	25.16	155	16.41		13.82	18	.12	.9	1.0	DEP L	2.2X	116	1
2003	DEC	10	1628	50.85	19	25.70	155	15.75		11.18	17	.15	.9	.9	INT L	2.1X	140	3
2003	DEC	10	1723	17.66	19	23.34	155	14.78		3.33	12	.07	.4	.5	SEC	1.2X	149	3
2003	DEC	10	2255	38.41	19	23.91	155	17.36		2.69	19	.15	.4	.3	SSC L	1.8X	60	1
2003	DEC	10	2331	5.96	19	23.76	155	18.02		11.19	19	.07	.5	.4	INT L	2.2X	77	2
2003	DEC	10	2332	23.84	19	25.28	155	16.12		5.37	20	.10	.4	.7	INT L	1.7X	75	2
2003	DEC	10	2335	16.91	19	25.30	155	16.35		9.98	30	.10	.4	.5	INT L	1.9X	97	1
2003	DEC	10	2337	13.45	19	23.89	155	17.66		11.41	20	.11	.6	.4	INT L	2.3X	58	2
2003	DEC	10	2339	50.57	19	24.05	155	17.32		9.41	22	.11	.4	.5	INT L	2.1X	70	1
2003	DEC	10	2343	19.98	19	24.96	155	16.58		6.47	25	.13	.6	.6	INT L	2.0X	93	1
2003	DEC	10	2349	32.64	19	24.53	155	16.44		10.48	23	.12	.5	.6	INT L	1.9X	68	1
2003	DEC	10	2355	35.10	19	26.06	155	16.70		5.44	17	.12	.5	.7	INT L	2.0X	165	2
2003	DEC	11	0004	38.82	19	25.59	155	16.40		10.47	25	.12	.7	.7	INT L	1.9X	122	2

—ORIGIN TIME (HST)—					-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS			MAG	GAP	DS
2003	DEC	11	0010	3.65	19	24.65	155	37.89	2.45	15	.13	.5	.3	MLO			2.0X	95	1
2003	DEC	11	0011	3.10	19	25.44	155	15.69	9.77	27	.16	.7	.7	INT L			1.9X	125	2
2003	DEC	11	0013	33.32	19	24.59	155	38.07	2.89	15	.14	.5	.5	MLO			1.6X	98	1
2003	DEC	11	0019	32.40	19	24.46	155	17.38	6.50	25	.12	.5	.6	INT L			2.0X	51	1
2003	DEC	11	0034	54.41	19	24.85	155	17.69	5.20	17	.15	.6	.8	INT L			1.6X	76	1
2003	DEC	11	0055	20.37	19	25.46	155	16.53	7.50	19	.11	.5	.6	INT L			2.0X	116	1
2003	DEC	11	0120	43.01	19	25.60	155	16.23	8.34	21	.15	.7	.8	INT L			1.4X	143	2
2003	DEC	11	0134	13.18	19	24.94	155	16.25	9.47	25	.10	.6	.6	INT L			2.1X	118	1
2003	DEC	11	0202	26.83	19	24.68	155	16.11	9.20	21	.14	.8	.8	INT L			1.9X	117	2
2003	DEC	11	0218	30.33	19	24.88	155	16.34	10.17	26	.14	.5	.6	INT L			2.0X	88	1
2003	DEC	11	0253	56.44	19	25.21	155	17.22	10.51	17	.08	.6	.9	INT L			2.1X	112	1
2003	DEC	11	0326	32.88	19	22.99	155	14.70	2.91	13	.06	.4	.4	SEC			1.6X	140	2
2003	DEC	11	0327	18.65	19	23.27	155	14.49	3.48	45	.10	.3	.3	SEC	F		2.9X	55	3
2003	DEC	11	0337	5.18	19	22.87	155	14.91	4.09	15	.09	.5	.5	SEC			1.6X	109	2
2003	DEC	11	0429	26.74	19	25.27	155	16.71	6.63	27	.13	.4	.6	INT L			2.0X	54	1
2003	DEC	11	0502	36.84	19	25.06	155	16.26	10.00	19	.14	1.1	1.0	INT L			1.9X	180	1
2003	DEC	11	0515	54.91	19	24.51	155	16.86	11.83	18	.10	.7	.7	INT L			2.3X	102	1
2003	DEC	11	0547	53.69	19	24.41	155	17.96	10.53	19	.13	.6	.9	INT L			2.0X	60	2
2003	DEC	11	0607	58.13	19	24.63	155	17.41	7.60	18	.08	.4	.6	INT L			1.9X	55	1
2003	DEC	11	0632	58.26	19	24.84	155	17.61	6.59	18	.17	.6	.9	INT L			2.2X	67	1
2003	DEC	11	0708	13.21	19	24.65	155	17.74	12.38	14	.14	.9	1.2	INT L			1.8X	102	1
2003	DEC	11	0726	17.32	19	24.84	155	17.64	7.78	23	.13	.5	.7	INT L			2.0X	43	1
2003	DEC	11	0745	44.59	19	24.64	155	17.38	10.09	16	.15	.8	1.1	INT L			1.9X	51	1
2003	DEC	11	0819	8.91	19	23.95	155	17.11	7.25	18	.10	.7	.9	INT L			1.8X	90	1
2003	DEC	11	0838	25.95	19	24.31	155	16.39	8.27	17	.12	.6	.7	INT L			1.9X	122	1
2003	DEC	11	0851	33.11	19	3.79	155	25.67	36.03	26	.08	.9	1.7	DLS			1.9X	210	11
2003	DEC	11	0851	48.00	19	3.14	155	25.38	37.71	16	.06	1.3	2.3	DLS			1.9X	215	13
2003	DEC	11	0853	26.98	19	24.85	155	16.69	6.40	18	.13	.6	.7	INT L			1.7X	108	1
2003	DEC	11	0914	55.01	19	25.36	155	16.54	7.39	19	.10	.6	.6	INT L			1.5X	133	1
2003	DEC	11	0942	26.34	19	24.49	155	16.40	10.87	20	.13	.6	.5	INT L			2.1X	110	1
2003	DEC	11	1007	56.53	19	24.09	155	16.98	8.66	18	.14	.6	.9	INT L			1.8X	107	1
2003	DEC	11	1012	43.08	19	3.58	155	25.50	37.47	29	.08	.8	1.4	DLS			2.5X	203	12
2003	DEC	11	1024	6.41	19	24.34	155	16.95	6.51	22	.13	.4	.7	INT L			1.9X	76	1
2003	DEC	11	1120	49.66	19	25.78	155	16.79	9.26	15	.11	.7	1.0	INT L			2.0X	129	2
2003	DEC	11	1208	22.90	19	24.15	155	15.95	8.23	19	.12	.7	.5	INT L			1.7X	186	1
2003	DEC	11	1228	7.89	19	3.25	155	25.36	35.98	21	.12	1.1	1.8	DLS			2.2X	215	12
2003	DEC	11	1232	27.21	19	23.87	155	17.00	9.25	23	.13	.4	.6	INT L			2.1X	47	1
2003	DEC	11	1237	41.22	19	3.72	155	25.63	35.26	17	.09	1.2	2.3	DLS			2.1X	212	11
2003	DEC	11	1339	48.77	19	24.27	155	17.27	7.71	21	.15	.6	.8	INT L			1.9X	90	1
2003	DEC	11	1357	58.36	19	21.51	155	18.57	3.37	16	.07	.3	.7	SWR			1.7X	73	3
2003	DEC	11	1444	25.68	19	24.26	155	16.77	8.50	20	.13	.5	.8	INT L			1.7X	102	1
2003	DEC	11	1512	12.39	19	24.13	155	15.94	5.23	17	.15	.7	.6	INT L			1.9X	142	1
2003	DEC	11	1539	29.23	19	24.81	155	17.55	6.80	20	.11	.4	.6	INT L			1.8X	50	1
2003	DEC	11	1602	22.18	19	24.47	155	16.15	7.38	15	.12	1.0	.7	INT L			2.0X	181	1
2003	DEC	11	1630	2.46	19	23.99	155	16.75	6.85	19	.14	.6	.7	INT L			1.7X	110	0
2003	DEC	11	1645	14.61	19	24.94	155	16.24	10.20	21	.14	.6	.9	INT L			2.0X	118	1
2003	DEC	11	1715	35.43	19	25.68	155	16.77	7.06	20	.11	.5	.6	INT L			1.9X	112	2
2003	DEC	11	1742	43.25	19	25.61	155	17.13	8.73	21	.12	.6	.7	INT L			1.9X	102	1
2003	DEC	11	1811	38.40	19	25.63	155	17.28	9.63	26	.15	.5	.7	INT L			2.2X	50	1
2003	DEC	11	1934	30.73	19	25.11	155	17.10	9.90	20	.14	.6	.9	INT L			1.8X	101	0
2003	DEC	11	1954	48.08	19	24.12	155	17.41	8.04	27	.17	.5	.7	INT L			2.1X	62	1
2003	DEC	11	2300	2.89	19	20.08	155	7.06	8.36	34	.10	.8	.5	SF4			1.8X	187	6
2003	DEC	12	0027	25.08	19	22.75	155	17.21	2.51	27	.09	.3	.3	SSC			2.1X	60	1
2003	DEC	12	0356	59.20	19	25.16	155	16.91	9.19	28	.13	.5	.7	INT L			2.0X	70	1
2003	DEC	12	0510	27.68	19	25.41	155	17.25	8.26	24	.16	.6	.8	INT L			2.0X	99	1
2003	DEC	12	0528	49.29	19	24.89	155	16.28	9.32	26	.10	.5	.6	INT L			1.8X	134	1
2003	DEC	12	0612	33.93	19	24.49	155	15.93	9.50	20	.10	1.0	.8	INT L			1.8X	191	2
2003	DEC	12	0641	26.10	19	25.79	155	16.82	8.47	20	.11	.6	.7	INT L			1.8X	112	2
2003	DEC	12	0704	16.04	19	25.63	155	17.57	8.39	25	.16	.5	.7	INT L			1.9X	66	0
2003	DEC	12	0737	18.88	19	24.60	155	16.96	9.40	26	.12	.5	.7	INT L			2.2X	101	1
2003	DEC	12	0846	23.82	19	24.50	155	17.61	7.18	27	.12	.4	.6	INT L			1.8X	48	1
2003	DEC	12	0920	46.34	19	30.77	155	41.43	12.60	14	.14	1.0	2.0	MLO			1.2X	156	8
2003	DEC	12	0921	4.97	19	30.69	155	41.19	12.00	15	.13	.9	1.8	MLO			1.2X	154	8
2003	DEC	12	1009	11.75	19	23.80	155	17.34	9.51	21	.11	.6	.8	INT L			1.9X	66	1
2003	DEC	12	1051	16.39	19	25.09	155	16.29	9.34	19	.14	1.1	.8	INT L			1.9X	176	1
2003	DEC	12	1222	55.16	19	24.05	155	17.35	8.14	25	.12	.4	.6	INT L			1.7X	49	1
2003	DEC	12	1324	10.68	19	25.03	155	16.66	8.35	30	.14	.5	.7	INT L			1.9X	54	1
2003	DEC	12	1341	24.46	19	23.94	155	17.29	7.23	15	.13	.8	.9	INT L			1.6X	80	1
2003	DEC	12	1425	25.21	19	23.92	155	16.62	10.04	19	.13	.6	.6	INT L			1.8X	118	0
2003	DEC	12	1637	45.61	19	24.47	155	16.95	7.03	18	.20	.9	1.1	INT L			1.4X	112	1
2003	DEC	12	1638	5.18	19	24.27	155	16.23	7.29	28	.11	.5	.5	INT L			1.7X	52	1
2003	DEC	12	1701	17.42	19	23.82	155	16.88	9.06	21	.12	.6	.9	INT L			1.7X	70	1
2003	DEC	12	1732	57.64	19	24.81	155	16.12	10.63	24	.13	.7	.7	INT L			2.0X	71	2
2003	DEC	12	1802	13.15	19	23.92	155	16.59	11.54	21	.17	.8	.8	INT L			1.8X	119	0
2003	DEC	12	1817	50.63	19	24.66	155	16.80	6.50	24	.13	.5	.6	INT L			1.7X	104	1
2003	DEC	12	1834	30.17	19	25.42	155	16.24	9.47	27	.13	.5	.6	INT L			2.1X	51	2
2003	DEC	12	1859	51.46	19	23.93	155	16.26	10.73	18	.12	.6	.9	INT L			1.8X	106	1
2003	DEC	12	1923	43.44	19	13.91	155	11.33	43.48	25	.09	1.1	1.4	DEP			1.6X	196	7
2003	DEC	12	1954	18.70	19	23.70	155	16.35	10.01	26	.13	.5	.4	INT L			1.9X	62	1
2003	DEC	12	2013	41.42	19	24.89	155	16.50	11.75	20	.13	.7	.8	INT L			1.9X	128	1
2003	DEC	12	2034	46.07	19	25.09	155	16.90	10.84	24	.11	.5	.4	INT L			1.9X	69	0
2003	DEC	12	2102	43.00	19	25.43	155	16.29	8.85	19	.14	.6	.7	INT L			2.0X	122	2
2003	DEC	12	2132	7.38	19	24.35	155	15.97	6.67	16	.13	.9	.8	INT L			1.6X	189	1
2003	DEC	12	2201	1.62	19	25.15	155	17.69	7.71	18	.12	.6	.8	INT L			1.7X	89	0
2003	DEC	12	2218	17.55	19	24.11	155	17.51	5.82	21	.14	.5	.8	INT L			1.7X	69	2
2003	DEC	12	2327	33.42	19	20.12	155	11.87	8.19	30	.11	.6	.4	SF3			1.7X	147	5
2003	DEC	12	2350	36.70	19	25.60	155	16.77	9.28	27	.10	.4	.6	INT L			2.0X	74	1
2003	DEC	13	0130	26.97	19	24.50	155	16.24	6.49	23	.10	.4	.6	INT L			1.9X	69	1
2003	DEC	13	0415	16.13	19	25.25	155	17.07	8.08	26	.14	.6	.7	INT L			1.8X	102	1
2003	DEC	13	0501	14.60	19	24.77	155	17.20	11.17	21	.14	.7	.5	INT L			1.6X	80	0

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	DEC	13	1530	51.69	19	19.56	155	11.17		5.42	23	.13	.6	1.2	SF3	1.3X	167	6
2003	DEC	13	1610	23.12	19	24.85	155	17.20		9.06	21	.19	.7	.9	INT L	2.0X	66	0
2003	DEC	13	1731	53.85	19	52.49	155	21.86		10.78	13	.10	1.1	.5	KEA	1.7X	165	3
2003	DEC	13	2238	38.79	19	20.04	155	5.33		5.84	20	.12	.9	1.9	SF4	1.3X	199	7
2003	DEC	14	0518	0.32	19	24.17	155	15.77		3.13	17	.07	.4	.3	SEC	1.5X	117	2
2003	DEC	14	0525	22.48	20	2.60	155	38.82		10.31	44	.09	.8	.9	KOH F	2.6X	173	17
2003	DEC	14	1152	35.16	19	27.82	154	50.56		6.98	19	.13	1.7	1.0	LER	2.1X	280	15
2003	DEC	14	1721	21.17	19	19.90	155	11.77		7.98	39	.12	.5	.4	SF3	2.3X	143	6
2003	DEC	14	1951	34.66	19	22.53	154	56.67		3.52	21	.13	1.1	1.5	SLE	1.9X	264	6
2003	DEC	14	2313	8.42	19	22.98	155	26.29		11.65	33	.10	.4	.6	KAO	1.6X	55	2
2003	DEC	15	0247	41.99	19	18.55	155	14.98		8.22	25	.13	.6	.6	SF1	1.5X	121	4
2003	DEC	15	0649	44.28	19	25.56	155	23.74		11.17	27	.08	.5	1.0	KAO	1.5X	66	8
2003	DEC	15	1729	46.94	19	24.28	155	16.77		2.54	13	.07	.4	.3	SSC	1.1X	122	1
2003	DEC	15	2242	27.88	19	13.59	155	29.30		38.54	33	.08	.7	1.3	DLS	1.6X	92	3
2003	DEC	16	0513	30.93	19	23.75	155	2.33		8.05	22	.10	.9	.6	SF5	1.6X	170	3
2003	DEC	16	1800	35.93	19	20.99	155	9.91		1.15	22	.13	.4	.6	SER	2.4X	153	3
2003	DEC	16	2043	25.46	19	26.90	155	28.12		8.74	22	.09	.4	1.1	KAO	1.3X	83	8
2003	DEC	17	0402	10.77	19	42.53	156	7.41		22.63	14	.11	2.0	4.3	HUA	1.4X	277	30
2003	DEC	17	2001	53.85	19	23.42	155	15.14		2.78	13	.08	.4	.5	SEC	1.3X	115	2
2003	DEC	18	0254	32.09	19	27.54	155	57.57		17.44	15	.15	3.5	14.4	KON -	.9X	316	33
2003	DEC	18	0356	54.17	19	17.66	155	36.93		7.92	16	.11	.6	2.1	LSW	1.5X	132	9
2003	DEC	18	0440	27.56	19	24.96	155	29.25		9.14	25	.11	.4	.9	KAO	1.6X	66	5
2003	DEC	18	0528	41.79	19	24.79	155	29.32		8.44	22	.11	.4	1.0	KAO	1.5X	67	5
2003	DEC	18	0948	54.41	19	28.44	154	52.65		0.05	21	.18	2.3	.6	SLE F#	2.1X	273	12
2003	DEC	18	1551	18.92	19	17.15	155	12.63		7.42	21	.09	.9	1.0	SF2	1.3X	224	1
2003	DEC	18	1715	16.12	19	19.16	155	12.07		5.67	28	.11	.6	1.2	SF3	1.5X	167	5
2003	DEC	18	2134	47.20	19	12.41	155	36.17		5.51	26	.13	.5	1.3	LSW	2.1X	137	12
2003	DEC	19	0041	23.31	19	24.84	155	16.75		15.07	20	.12	.9	.5	DEP L	2.1X	87	0
2003	DEC	19	0206	18.38	19	25.17	155	16.77		10.47	26	.11	.4	.5	INT L	1.9X	89	1
2003	DEC	19	0841	59.26	19	2.11	155	25.81		38.04	25	.08	1.0	1.5	DLS	1.7X	220	14
2003	DEC	19	1402	8.89	19	24.98	155	29.16		8.97	22	.09	.4	.9	KAO	1.5X	66	5
2003	DEC	19	1543	31.17	19	17.69	155	12.79		7.69	27	.10	.6	.9	SF2	1.5X	174	2
2003	DEC	20	0844	17.46	19	23.10	155	14.07		4.65	14	.10	.5	1.2	SEC	1.2X	115	3
2003	DEC	20	1825	47.91	19	42.67	155	56.56		16.58	18	.13	3.5	1.9	HUA	1.1X	303	11
2003	DEC	20	1847	29.75	19	21.26	155	30.23		9.74	21	.05	.4	1.0	KAO	1.2X	93	5
2003	DEC	20	2101	16.83	19	20.05	155	6.97		9.74	45	.13	.6	.4	SF4	2.8X	180	6
2003	DEC	20	2259	31.67	19	26.64	155	29.89		8.25	20	.10	.4	1.4	KAO	1.0X	124	9
2003	DEC	21	0214	4.45	19	23.16	155	14.64		3.48	13	.07	.5	.4	SEC	1.5X	147	3
2003	DEC	21	0306	11.55	19	20.23	155	7.25		8.08	32	.13	.7	.6	SF4	1.8X	184	6
2003	DEC	21	0316	23.87	19	20.33	155	7.12		7.76	34	.14	.8	.7	SF4	1.4X	184	6
2003	DEC	21	0316	25.53	19	20.49	155	7.08		7.90	43	.12	.6	.5	SF4	3.2X	182	5
2003	DEC	21	0317	19.60	19	20.07	155	6.88		7.55	36	.12	.7	.6	SF4	2.7X	187	6
2003	DEC	21	0424	25.21	19	19.50	155	7.01		7.31	27	.11	.7	.6	SF4	1.6X	195	7
2003	DEC	21	0637	31.03	19	19.52	155	6.59		7.25	24	.13	1.0	1.2	SF4	1.7X	197	7
2003	DEC	21	0748	5.98	19	19.73	155	6.13		5.92	23	.12	.9	1.2	SF4	1.1X	197	7

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN		KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	DEC	21	1053	10.11	19	23.35	155	16.74		3.40	18	.08	.4	.3	SSC	1.3X	88	0
2003	DEC	21	1324	24.45	19	55.18	155	23.66		10.10	19	.11	1.0	.5	KEA	1.7X	224	6
2003	DEC	21	1415	19.49	19	15.48	155	26.95		8.70	20	.14	.5	.8	LSW	1.3X	106	6
2003	DEC	21	1548	54.72	19	24.79	155	38.90		3.35	12	.09	.8	.6	MLO	1.1X	193	2
2003	DEC	21	1949	5.17	19	23.65	155	26.61		10.85	21	.08	.5	.9	KAO	1.3X	65	3
2003	DEC	21	2019	45.75	19	18.44	155	47.78		9.36	22	.15	1.3	1.0	KON	1.3X	209	15
2003	DEC	21	2025	1.19	19	43.00	155	17.43		37.84	26	.10	.9	1.5	KEA	1.8X	150	19
2003	DEC	22	0016	17.01	19	18.29	155	12.64		9.33	32	.11	.5	.5	SF2	1.8X	177	8
2003	DEC	22	0558	44.61	19	55.69	155	35.16		29.97	38	.10	.6	1.0	KOH	2.0X	141	11
2003	DEC	22	0925	36.08	19	12.99	155	27.66		32.91	23	.07	.9	1.6	DLS	1.6X	122	6
2003	DEC	22	1116	13.42	19	18.45	155	12.81		9.76	39	.11	.5	.5	SF2	2.4X	171	8
2003	DEC	22	1117	47.14	19	17.57	155	12.47		7.97	31	.12	.5	.7	SF2	1.8X	182	2
2003	DEC	22	1120	5.02	19	17.39	155	12.31		5.79	17	.10	.7	1.4	SF2	1.3X	216	2
2003	DEC	22	1123	18.67	19	17.27	155	12.27		7.74	19	.11	.8	1.1	SF3	1.5X	208	2
2003	DEC	22	1207	37.99	19	17.12	155	12.76		8.06	20	.10	.7	.9	SF2	1.5X	204	1
2003	DEC	22	1559	11.04	19	17.97	155	12.65		9.43	31	.08	.6	.5	SF2	1.8X	179	9
2003	DEC	22	1600	1.02	19	16.80	155	12.01		7.48	17	.09	1.0	1.0	SF3	1.6X	259	3
2003	DEC	22	2140	36.54	18	51.04	155	13.43		10.21	25	.11	1.7	1.0	LOI	2.3X	266	42
2003	DEC	23	0449	26.38	19	26.32	155	29.03		10.63	41	.10	.3	.5	KAO	2.3X	43	7
2003	DEC	23	0449	59.58	19	26.54	155	28.86		8.35	16	.11	.5	1.5	KAO	1.6X	100	8
2003	DEC	23	0902	29.10	19	32.13	155	37.67		10.71	29	.12	.5	.5	MLO	1.7X	116	5
2003	DEC	23	0916	0.64	19	17.84	155	12.81		10.13	37	.10	.6	.5	SF2	2.4X	179	9
2003	DEC	23	1056	25.64	19	24.36	155	16.35		1.63	18	.09	.4	.2	SEC	1.6X	110	1
2003	DEC	23	1924	59.06	19	19.88	155	11.45		6.93	20	.08	.6	.9	SF3	1.3X	168	6
2003	DEC	23	1950	37.53	19	20.07	155	10.92		7.78	22	.12	.6	.5	SF3	1.3X	163	5
2003	DEC	23	2300	49.31	19	18.22	155	12.76		10.03	41	.10	.5	.4	SF2	2.5X	172	8
2003	DEC	24	0314	29.20	19	11.39	155	29.50		33.34	38	.07	.5	1.0	DLS	2.3U	80	5
2003	DEC	24	0419	38.87	19	19.73	155	21.71		34.78	27	.09	.8	1.2	DEP	1.8X	119	3
2003	DEC	24	0545	16.62	19	10.84	155	29.92		31.96	24	.08	1.0	1.6	DLS	1.2X	250	8
2003	DEC	24	0712	22.79	19	22.55	155	14.38		3.51	33	.11	.4	.4	SEC	2.2X	85	2
2003	DEC	24	0737	30.81	19	22.32	155	10.65		2.88	21	.12	.7	.5	SER	1.2X	131	1
2003	DEC	24	0913	17.05	19	20.90	155	14.38		30.61	24	.10	1.1	1.5	DEP	1.7X	98	4
2003	DEC	24	0955	22.97	19	20.28	155	8.53		8.76	37	.12	.7	.6	SF4	2.2X	174	5
2003	DEC	24	1111	21.43	19	23.48	155	16.89		3.33	18	.09	.3	.4	SSC	1.3X	63	0
2003	DEC	24	1348	53.57	19	13.17	155	29.30		7.67	27	.15	.6	1.2	LSW	1.9X	150	4
2003	DEC	24	1617	56.58	19	59.03	155	22.49		12.46	38	.13	.9	.6	KEA	2.5X	199	11
2003	DEC	24	1945	28.60	19	18.06	155	12.89		10.77	36	.11	.5	.4	SF2	1.9X	178	8
2003	DEC	24	2303	53.52	19	19.60	155	11.59		7.50	29	.11	.5	.8	SF3	1.9X	150	6
2003	DEC	25	0108	47.62	19	1.92	155	25.92		36.97	30	.08	.8	1.5	DLS	1.5X	211	14
2003	DEC	25	0438	2.19	19	50.50	155	5.13		37.03	26	.12	1.1	1.7	KEA	1.4X	224	17
2003	DEC	25	0445	44.26	19	39.97	156	4.25		8.82	18	.12	2.2	1.1	HUA	1.7X	269	36
2003	DEC	25	1124	21.87	19	29.35	155	29.96		3.24	25	.11	.3	1.6	KAO	1.5X	64	6
2003	DEC	25	1403	56.65	19	23.42	155	16.48		9.19	30	.16	.5	.5	INT L	1.8X	87	1
2003	DEC	25	1639	12.90	19	19.50	155	10.70		7.76	19	.05	.7	.9	SF3	.9X	175	6
2003	DEC	25	1639	16.85	19	19.52	155	10.67		7.52	24	.09	.6	.5	SF3	1.7X	175	6

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	DEC	25	1640	25.40	19	20.11	155	10.79	8.01	42	.11	.4	.5	SF3		2.3X	154	5
2003	DEC	25	1641	34.10	19	19.36	155	10.52	6.62	27	.11	.7	1.0	SF3		1.4X	169	6
2003	DEC	25	1654	4.30	19	19.38	155	10.30	7.72	25	.08	.5	.7	SF3		1.6X	170	6
2003	DEC	25	1702	45.21	19	19.26	155	8.64	7.41	29	.10	.7	.8	SF4		1.9X	186	7
2003	DEC	25	1746	58.87	19	22.18	155	10.32	3.47	16	.08	.7	.4	SER		1.3U	142	1
2003	DEC	25	2011	42.65	19	21.90	155	15.60	25.26	40	.11	.6	.7	DEP		2.3X	81	1
2003	DEC	26	0313	35.99	19	58.31	155	22.49	6.47	27	.16	.8	.9	KEA		1.8X	196	23
2003	DEC	26	0858	38.28	18	55.82	155	29.63	13.79	17	.09	2.3	.9	DLS		1.4X	253	20
2003	DEC	26	1659	13.91	19	21.82	155	4.36	9.21	32	.12	.8	.5	SF5		2.0X	183	5
2003	DEC	26	1726	22.23	19	14.93	155	22.00	33.36	47	.11	.6	.9	DEP		2.5X	151	8
2003	DEC	26	1918	18.89	19	24.76	155	29.51	9.35	33	.09	.4	.7	KAO		1.6X	68	5
2003	DEC	26	2140	31.73	19	19.89	155	11.89	8.35	29	.10	.5	.4	SF3		1.5X	141	5
2003	DEC	26	2208	34.24	19	21.16	155	12.18	8.48	40	.13	.5	.4	SF3		2.0X	159	3
2003	DEC	26	2357	13.82	19	55.30	155	35.01	19.98	32	.10	.6	1.1	KOH		1.9X	138	11
2003	DEC	27	0103	3.19	19	24.73	155	16.68	10.50	29	.16	.5	.6	INT L		1.9X	49	1
2003	DEC	27	0109	59.84	19	25.05	155	17.41	9.09	25	.17	.6	.7	INT L		1.9X	79	1
2003	DEC	27	0143	47.61	19	24.59	155	16.45	7.79	26	.16	.5	.7	INT L		2.0X	68	1
2003	DEC	27	0156	30.64	19	25.46	155	16.40	10.66	21	.14	.7	.5	INT L		1.9X	120	1
2003	DEC	27	0226	58.53	19	24.88	155	16.96	9.05	26	.12	.4	.4	INT L		2.1X	71	0
2003	DEC	27	0239	25.14	19	25.10	155	16.03	9.35	25	.12	.5	.6	INT L		1.6X	120	2
2003	DEC	27	0252	0.64	19	25.16	155	17.30	8.70	29	.17	.4	.7	INT L		2.1X	49	1
2003	DEC	27	0325	0.34	19	25.35	155	16.27	8.37	22	.18	.6	.8	INT L		1.5X	60	2
2003	DEC	27	0435	3.36	19	24.78	155	16.34	8.65	25	.13	.5	.6	INT L		2.1X	70	1
2003	DEC	27	0538	17.17	19	25.66	155	17.29	9.78	26	.15	.5	.7	INT L		2.0X	72	1
2003	DEC	27	0547	26.38	19	26.44	155	28.84	7.81	20	.10	.4	1.2	KAO		1.1X	82	8
2003	DEC	27	0549	44.51	19	23.97	155	16.91	9.73	23	.15	.6	.6	INT L		1.8X	101	1
2003	DEC	27	0632	3.69	19	58.09	155	23.84	10.63	20	.14	1.1	.6	KEA		1.7X	212	10
2003	DEC	27	0641	43.47	19	23.57	155	17.13	6.09	24	.17	.5	.7	INT L		1.8X	60	1
2003	DEC	27	0656	9.44	19	8.08	155	24.19	40.64	36	.12	.8	1.3	LOI		2.1X	191	7
2003	DEC	27	0719	34.01	19	25.64	155	16.82	10.49	20	.12	.5	.6	INT L		1.6X	111	1
2003	DEC	27	1031	17.62	19	25.36	155	16.82	7.59	20	.10	.5	.6	INT L		2.0X	109	1
2003	DEC	27	1049	29.08	19	24.00	155	16.89	10.04	25	.13	.5	.6	INT L		1.8X	97	1
2003	DEC	27	1133	16.47	19	25.88	155	16.73	7.35	24	.15	.5	.7	INT L		1.9X	92	2
2003	DEC	27	1404	2.77	19	17.85	155	12.69	7.74	25	.11	.7	.6	SF2		1.3X	161	2
2003	DEC	27	2052	18.14	19	26.67	155	28.70	8.77	25	.12	.4	1.1	KAO		1.4X	69	8
2003	DEC	28	0352	19.41	19	24.00	155	17.02	3.18	17	.07	.5	.3	SSC		1.4X	99	1
2003	DEC	28	0507	19.32	19	13.48	155	26.15	9.42	20	.11	.6	.6	LSW		1.7X	146	8
2003	DEC	28	1315	5.81	19	57.81	155	24.05	11.69	14	.12	.9	.5	KEA		1.1X	208	10
2003	DEC	28	1705	10.70	19	11.30	155	29.66	32.75	46	.09	.5	1.0	DLS		2.1X	84	5
2003	DEC	28	1755	13.74	19	11.27	155	29.40	32.98	29	.08	.6	1.2	DLS		1.6X	96	4
2003	DEC	28	1851	52.57	19	20.55	155	11.87	8.34	38	.11	.4	.4	SF3		2.3X	135	4
2003	DEC	29	0439	10.13	19	35.67	155	19.68	13.23	34	.13	.4	.6	KEA		1.9X	71	13
2003	DEC	29	1846	24.94	19	21.54	155	18.52	2.48	21	.08	.3	.6	SWR		1.7X	72	4
2003	DEC	29	2015	13.10	19	20.27	155	8.50	9.07	33	.09	.6	.5	SF4		2.0X	174	5
2003	DEC	30	0048	44.96	19	28.61	154	52.85	1.92	31	.13	1.6	1.2	SLE	F	2.5X	270	12

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC			PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS		MAG	GAP	DS
2003	DEC	31	0141	55.98	19	18.39	155	13.27	8.00	30	.12	.7	.4	SF2		1.4X	133	3
2003	DEC	31	0814	8.59	19	47.78	155	23.23	21.50	30	.11	.6	1.2	KEA		2.2X	100	8
2003	DEC	31	1041	58.69	19	33.26	155	36.98	13.64	15	.10	.9	1.0	DML		1.7X	174	4
2003	DEC	31	1042	25.99	19	33.33	155	36.64	14.36	15	.10	.8	1.0	DML		1.0X	174	3
2003	DEC	31	1110	2.46	19	24.74	155	37.78	3.27	17	.13	.5	.5	MLO		1.8X	95	1
2003	DEC	31	1658	43.46	19	27.64	155	27.77	8.95	31	.11	.4	1.0	KAO		1.5X	51	8
2003	DEC	31	1738	39.57	19	24.63	155	16.79	7.97	29	.10	.4	.5	INT L		1.9X	90	1
2003	DEC	31	1747	7.01	19	23.52	155	17.02	2.91	30	.11	.3	.2	SSC		1.8X	50	0
2003	DEC	31	2008	20.36	19	0.36	155	33.84	36.45	32	.07	.7	1.2	DLS		1.7X	208	12

—ORIGIN TIME (HST)—				-LAT N—		—LON W—		DEPTH	N	RMS	ERH	ERZ	LOC		PREF	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	SEC	KM	KM	REMKS	MAG	GAP	DS
2003	JAN	6	1637	43.47	19	55.56	156	21.12	29.69	40	.10	1.4	2.6	DIS	4.0X	221	46
2003	JAN	12	2024	2.71	18	50.77	155	17.01	12.23	40	.12	1.4	1.1	LOI	3.4X	265	39
2003	JAN	13	0437	19.08	18	47.66	155	16.06	11.60	48	.11	1.2	1.4	LOI F	3.0X	274	45
2003	JAN	23	0155	16.92	19	23.35	155	14.68	4.43	39	.12	.3	.5	SEC F	3.2X	100	3
2003	JAN	25	0643	18.01	19	22.00	155	19.72	30.02	44	.12	.5	.8	DEP F	3.3X	80	3
2003	JAN	25	0646	24.99	19	22.10	155	19.54	30.73	46	.11	.5	.7	DML F	3.9U	83	3
2003	FEB	6	2253	32.48	18	59.91	155	5.67	42.55	44	.10	1.0	1.4	LOI F	3.3X	273	32
2003	FEB	25	1846	26.02	19	21.34	155	5.03	8.78	46	.10	.5	.4	SF5 F	3.5U	158	6
2003	MAR	1	2115	38.16	19	19.56	155	7.78	8.84	45	.10	.4	.4	SF4 F	3.3X	128	4
2003	MAR	11	1024	30.08	19	26.14	155	21.70	10.72	48	.12	.3	.5	KAO F	3.0X	47	6
2003	APR	6	2127	24.90	19	25.88	155	19.01	7.20	44	.12	.4	.5	INT F	3.3U	48	3
2003	APR	14	0751	35.37	19	44.44	157	32.69	6.86	23	.12	9.6	11.6	DIS -	3.0X	335	179
2003	MAY	7	0100	6.22	17	42.40	153	1.21	30.64	32	.17	3.5	2.7	DIS	3.5X	341	280
2003	MAY	24	0734	58.36	19	18.09	155	13.29	9.79	47	.11	.5	.3	SF2 F	3.9U	128	2
2003	JUN	8	0355	16.89	19	2.95	156	15.52	30.78	43	.08	1.1	3.0	KON F	3.6X	301	71
2003	JUN	26	1721	30.44	19	15.65	155	4.61	45.99	49	.11	.7	.7	DEP F	3.1X	214	15
2003	JUL	8	0936	22.44	18	25.12	157	9.12	21.50	49	.11	2.0	5.0	DIS F	4.1X	337	167
2003	JUL	10	0559	59.68	19	49.06	155	22.52	28.35	44	.11	.6	1.2	KEA F	3.3X	87	9
2003	JUL	13	2008	9.76	18	57.28	155	28.71	35.91	48	.08	.8	1.1	DLS F	3.3X	234	20
2003	JUL	18	1932	23.47	19	31.12	155	24.78	23.32	47	.11	.4	.8	DML F	3.2X	53	4
2003	AUG	3	2056	11.28	18	56.91	155	28.82	35.88	48	.09	.8	1.1	DLS F	3.3X	236	20
2003	AUG	26	2024	22.18	19	19.59	155	12.43	9.87	39	.11	.5	.4	SF2 F	5.0U	136	5
2003	SEP	5	0037	53.90	18	44.17	156	11.13	49.35	48	.10	1.2	1.6	DIS F	3.8X	316	61
2003	SEP	6	1913	59.76	20	2.96	155	31.98	11.88	43	.12	.9	.6	KEA F	3.3X	196	25
2003	SEP	10	0023	31.78	19	23.73	155	16.68	3.49	43	.12	.2	.2	SSC F	3.2X	48	0
2003	SEP	17	2034	1.47	19	45.14	156	9.30	42.81	48	.11	1.0	1.5	HUA F	3.6X	254	38
2003	OCT	4	0828	19.55	19	23.32	154	43.83	45.09	50	.13	.9	.9	LER	3.4X	288	26
2003	OCT	10	0323	39.45	19	20.87	155	4.62	8.92	45	.12	.7	.4	SF5 F	3.2X	186	6
2003	OCT	30	0346	39.02	19	16.75	155	28.41	9.67	48	.13	.4	.5	LSW F	3.2X	87	4
2003	NOV	7	1710	5.75	18	55.51	154	57.09	49.48	49	.12	1.1	1.4	DIS F	3.3X	277	49
2003	NOV	14	0036	54.49	20	1.94	155	23.40	13.48	38	.11	1.1	.7	KEA F	3.1X	208	17
2003	DEC	21	0316	25.53	19	20.49	155	7.08	7.90	43	.12	.6	.5	SF4	3.2X	182	5