

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

**Aftershocks of the Borah Peak, Idaho, Earthquake
of 28 October 1983:
Catalog of Locations and Single-Event Focal Mechanisms**

Open-File Report 86 -277

by

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This report is preliminary and has not been edited or reviewed for conformity with the U. S. Geological Survey editorial standards and stratigraphic nomenclature.

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INTRODUCTION

The $M_s=7.3$ Borah Peak, Idaho, earthquake of October 28, 1983 was the largest to occur in the Basin and Range since the 1959 earthquake at Hebgen Lake, Montana. The earthquake produced a northwest-trending, 36-km-long zone of surface faulting along the Lost River fault (Crone and others, 1985), a range-bounding normal fault in east-central Idaho.

The detailed nature of the mainshock has been discussed by several investigators, including Richins and others (1985), Dewey (1985), Boatwright and Choy (1985), Doser and Smith (1985), and Barrientos and others (1985). Based on the surface rupture observations, the preferred fault plane strikes to the northwest at about $N24^\circ W$ and has a dip between 45 and 63 degrees to the southwest. Depth of the mainshock hypocenter is between 14 and 16 km.

Following the mainshock, an extensive local network of temporary seismograph stations was installed. Data from this network were used in conjunction with the hypocenter-location program HYPOELLIPSE (Lahr, 1979) to locate over 400 aftershocks ranging in magnitude from $M_d=1.4$ to $M_d=5.8$. Duration magnitudes, M_d , were calculated with the equation developed by Lee and others (1972) using constants from the University of Utah to convert the duration magnitude scale from the California region to the Intermountain Seismic Belt. This report presents locations of the aftershocks, as well as HYPOELLIPSE solutions for individual events. Sixty single-event focal mechanisms are also presented.

LOCATION OF AFTERSHOCKS

Within several hours after the $M_s=7.3$ Borah Peak mainshock, the installation of a dense seismograph network began by the USGS, University of Utah, and others (see Figure 1, Table 1). Over 60 temporary sites were occupied at some time between October 29 and November 19, 1983, with about 70% of these being operational at any one time (Richins and others, 1985). More than half of the instruments were short-period, smoked-paper recording seismographs with vertical-component seismometers. Supplementing the analog stations was a twelve-station portable network of digital instruments (spaced 3-18 km), operated by the USGS, Menlo Park (Boatwright, 1985) for the eleven day period following the mainshock. All station locations and dates of operation are presented in Table 1. In addition to the portable networks, regional data from permanent stations in Idaho, Montana, and Wyoming were provided by the University of Utah for events through

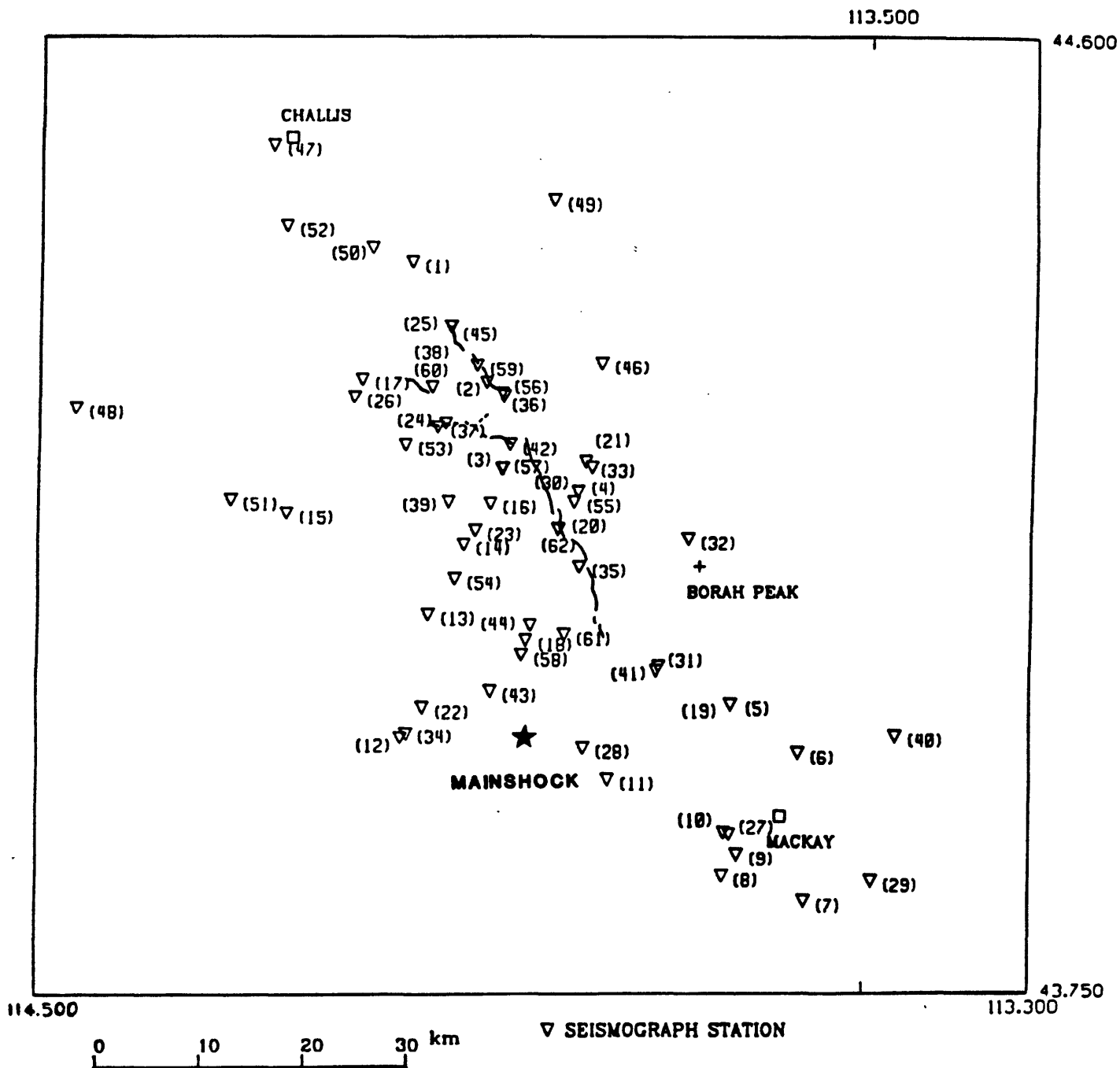


FIGURE 1.—Map showing location of all temporary stations installed to record aftershocks of the Borah Peak earthquake that occurred during the period between October 29 and November 19, 1983. The station number reported corresponds to Table 1, which lists station names and parameters. Mainshock location (star) provided by Dewey (1985). Surface rupture (broken line) from Crone and others (1985).

TABLE 1.—Stations used in the location of Borah Peak aftershocks

	STATION	LATITUDE	LONGITUDE	ELEV.	OPERATION	OPERATOR OR
	NAME	(deg,min)	(deg,min)	(m)	DATES	1 NETWORK
(1)	B1	44N24.16	114W03.26	1878	10/30-11/19	USGS-GOLD
(2)	B2	44N17.69	113W57.73	2256	11/13-11/19	USGS-GOLD
(3)	B3	44N13.07	113W56.50	2103	10/29-10/31	USGS-GOLD
(4)	B4	44N11.80	113W50.93	2283	11/01-11/19	USGS-GOLD
(5)	B5	44N00.49	113W39.65	2149	11/02-11/19	USGS-GOLD
(6)	B6	43N57.95	113W34.72	2091	10/29-11/13	USGS-GOLD
(7)	B7	43N49.99	113W34.22	1939	10/29-11/02	USGS-GOLD
(8)	B8	43N51.33	113W40.18	2463	10/29-11/03	USGS-GOLD
(9)	B9	43N52.50	113W39.10	2170	11/03-11/11	USGS-GOLD
(10)	B10	43N53.71	113W40.07	2219	10/29-10/31	USGS-GOLD
(11)	B11	43N56.52	113W48.54	2158	10/29-11/19	USGS-GOLD
(12)	B12	43N58.73	114W03.64	2082	11/01-11/19	USGS-GOLD
(13)	B13	44N05.23	114W01.72	2106	11/11-11/19	USGS-GOLD
(14)	B14	44N08.98	113W59.17	2103	10/29-11/01	USGS-GOLD
(15)	B15	44N10.69	114W12.05	1887	10/31-11/18	USGS-GOLD
(16)	B16	44N11.22	113W57.31	2033	10/29-11/09	USGS-GOLD
(17)	B17	44N17.83	114W06.76	2021	10/30-11/20	USGS-GOLD
(18)	CEM	44N03.87	113W54.58	1924	10/29-11/08	USGS-MNLO
(19)	UCC	44N00.51	113W39.63	2151	10/29-11/08	USGS-MNLO
(20)	BOR	44N09.85	113W52.28	2076	10/29-11/08	USGS-MNLO
(21)	DSP	44N13.45	113W50.38	2515	10/30-11/08	USGS-MNLO
(22)	DPC	44N00.33	114W02.07	2045	10/30-11/08	USGS-MNLO
(23)	DTS	44N09.75	113W58.36	2000	10/30-11/08	USGS-MNLO
(24)	WCP	44N15.47	114W00.68	2006	10/29-11/08	USGS-MNLO
(25)	MGW	44N20.72	114W00.42	2121	10/30-11/08	USGS-MNLO
(26)	SMS	44N16.88	114W07.28	2197	10/30-11/08	USGS-MNLO
(27)	HAU	43N53.63	113W39.68	2167	10/29-11/08	USGS-MNLO
(28)	LHM	43N58.22	113W50.35	1970	10/30-11/08	USGS-MNLO
(29)	DLS	43N51.07	113W29.37	1803	10/30-11/08	USGS-MNLO
(30)	BRH	44N11.85	113W50.90	2242	11/05-11/07	USGS-MNLO
(31)	LCC	44N02.25	113W45.06	2091	11/05-11/08	USGS-MNLO
(32)	LSGS	44N09.29	113W42.82	2448	10/30-11/12	SLC
(33)	DSP1	44N13.13	113W49.91	2548	10/29-11/17	SLC
(34)	BRC1	43N58.95	114W03.23	2257	10/31-11/18	SLC
(35)	MBA1	44N07.75	113W50.71	2146	10/29-11/18	SLC
(36)	BIGA	44N16.94	113W56.40	2390	11/14-11/18	SLC
(37)	NWS1	44N15.29	114W01.24	2022	10/30-11/19	SLC
(38)	SCS1	44N17.45	114W01.71	2007	—	BSE
(39)	ANP1	44N11.28	114W00.37	2280	10/29-11/19	SLC
(40)	MDC1	43N58.86	113W27.71	2106	11/03-11/13	SLC
(41)	LCR1	44N02.49	113W44.88	2152	10/29-11/18	SLC
(42)	NSU1	44N14.36	113W55.90	2225	10/29-11/18	SLC
(43)	BRP1	44N01.18	113W57.13	2042	10/29-11/18	SLC
(44)	CHB1	44N04.65	113W54.30	1987	10/29-11/02	SLC
(45)	MCG1	44N20.71	114W00.34	2158	11/16-11/19	SLC
(46)	CGI	44N18.72	113W49.36	2207	11/05-11/18	U OF WASH
(47)	CHL	44N30.17	114W13.29	1576	11/05	U OF WASH
(48)	CLI	44N16.31	114W27.38	1780	11/05-11/07	U OF WASH
(49)	GCI	44N27.32	113W52.97	1877	11/05-11/19	U OF WASH
(50)	HIR	44N24.87	114W06.12	1713	11/07-11/19	U OF WASH
(51)	RCI	44N11.39	114W16.13	1784	11/07-11/19	U OF WASH
(52)	BLD	44N26.02	114W12.32	1628	11/18-11/19	U OF WASH
(53)	BWD	44N14.36	114W03.52	2244	11/10-11/18	U OF WASH
(54)	DCD	44N07.13	113W59.82	2101	11/09-11/15	U OF WASH

TABLE 1.—Stations used in the location of Borah Peak aftershocks—Continued

	STATION	LATITUDE	LONGITUDE	ELEV.	OPERATION	OPERATOR OR
	NAME	(deg,min)	(deg,min)	(m)	DATES	1 NETWORK
(55)	FSD	44N11.27	113W51.18	2229	11/08-11/19	U OF WASH
(56)	SCD	44N17.08	113W56.56	2378	11/16-11/18	U OF WASH
(57)	WSU1	44N13.08	113W56.34	2125	11/07-11/18	BSE
(58)	BSU1	44N03.08	113W54.88	1960	—	BSE
(59)	BSU2	44N18.61	113W58.45	2280	—	BSE
(60)	BSU3	44N17.45	114W01.71	2007	—	BSE
(61)	M-1	44N04.17	113W51.81	1922	10/28-11/22	INEL
(62)	M-2	44N09.78	113W52.28	2082	10/29-11/22	INEL
(63)	WMSI	44N27.33	114W07.54	1660	PERM	—
(64)	JECI	44N22.33	114W11.05	2135	PERM	SLC
(65)	LGUI	44N31.78	114W04.55	2538	PERM	—
(66)	SURI	44N18.35	113W28.95	2324	PERM	SLC
(67)	MLI	42N01.61	112W07.53	1896	PERM	SLC
(68)	NPI	42N08.84	112W31.10	1640	PERM	SLC
(69)	SLC	40N45.83	111W50.87	1423	PERM	SLC
(70)	WPI	43N17.33	116W45.00	1807	PERM	BSE
(71)	CPI	43N52.00	116W18.00	1620	PERM	BSE
(72)	TID	43N30.00	115W56.00	1765	PERM	BSE
(73)	BWF	44N14.95	114W01.82	2079	PERM	—
(74)	SGF	44N03.17	113W46.81	2243	PERM	—
(75)	IMW	43N53.82	110W56.35	2646	PERM	USGS USTN
(76)	BEI	42N07.00	111W46.94	1859	PERM	USGS USTN
(77)	HPI	43N42.68	113W05.90	2597	PERM	USGS USTN
(78)	TMI	43N18.33	111W55.09	2179	PERM	USGS USTN
(79)	CIB	43N24.07	112W56.51	1611	PERM	USGS
(80)	GBI	43N59.25	112W03.80	1561	PERM	USGS
(81)	JGI	44N05.56	112W40.61	1657	PERM	USGS
(82)	CMI	44N31.52	111W37.31	2377	PERM	REX
(83)	KCI	43N40.13	111W39.87	1902	PERM	REX
(84)	BLCM	44N52.64	112W50.80	1844	11/02-11/03	BUT
(85)	BNRM	45N06.84	112W33.07	1811	11/04	BUT
(86)	BPM	44N49.03	113W18.09	2313	10/29-11/02	BUT
(87)	BUT	46N00.80	112W33.80	1758	PERM	BUT
(88)	LRM	45N49.33	112W27.06	2326	PERM	BUT
(89)	LCCM	45N50.26	111W52.69	1669	PERM	BUT
(90)	MLPM	44N47.01	113W01.78	2115	11/02-11/03	BUT
(91)	NCM	47N10.81	114W33.95	1183	PERM	BUT
(92)	SHCM	45N04.61	112W39.52	1792	11/03-11/04	BUT
(93)	SXM	46N08.95	111W12.46	1987	PERM	BUT
(94)	MSO	46N49.75	113W56.44	1264	PERM	MSO

1

TEMPORARY STATIONS

USGS-GOLD: USGS, GOLDEN, COLORADO

USGS-MNLO: USGS, MENLO PARK, CALIFORNIA

SLC : UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

U OF WASH: UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON

BUT : MONTANA BUREAU OF MINES AND GEOLOGY, BUTTE, MONTANA

BSE : BOISE STATE UNIVERSITY, BOISE, IDAHO

INEL : IDAHO NATIONAL ENGINEERING LABORATORY

PERMANENT STATIONS

SLC : UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

BSE : BOISE STATE UNIVERSITY, BOISE, IDAHO

USGS : USGS, OTHER THAN NEIS USTN

USGS USTN: NEIS TELEMETERED NETWORK

BUT : MONTANA BUREAU OF MINES AND GEOLOGY, BUTTE, MONTANA

MSO : UNIVERSITY OF MONTANA, MISSOULA, MONTANA

REX : RICKS COLLEGE, REXBURG, IDAHO

— : DATA UNAVAILABLE

November 11. Figure 1 shows the location of all portable and regional stations within the study area.

Locations for the aftershocks were computed using a P-wave velocity structure described by Richins and others (1985), which incorporated data from recent refraction profiles in the Lost River Valley vicinity. The model consists of four layers overlying an 8.00 km/sec half-space (Table 2). S-wave velocities were determined by Boatwright (1985), through a Wadati diagram analysis of digitally recorded P- and S-waves which indicated an average V_p/V_s of 1.75 ± 0.04 .

TABLE 2.—Velocity model used to locate Borah Peak aftershocks

LAYER	DEPTH TO TOP OF LAYER(km)	P-WAVE VELOCITY (km/s)	S-WAVE VELOCITY (km/s)
1	0	4.75	2.71
2	1	5.59	3.19
3	7	6.16	3.52
4	18	6.80	3.89
5	40	8.00	4.57

Hypocenters from 402 aftershocks occurring between October 29 and November 19, 1983 were located with HYPOELLIPSE (Lahr, 1979) using both P- and S-arrival times (Appendix B). Arrival time data were restricted to stations within 125 km of the aftershock epicenter. For the smoked-paper records, arrival time picks were made with the aid of a high-power magnifier, and most P-times are assumed to be accurate within ± 0.05 seconds. S-wave times were scaled from playbacks of Boatwright's (1985) horizontal digital records. For those events not recorded digitally, the S-phase was identified by a change in amplitude and/or frequency as seen on the smoked-paper records. The maximum number of P and S times used in locating events was 36; the average was 18.

Epicenters of the 402 aftershocks are shown in relation to the mainshock epicenter and surface rupture in Figure 2. The epicenters cover an elongate area, 75km by 15km, which is generally subparallel to the trace of the surface faulting and offset to the southwest by about 5 to 8 km. Depths range from about 3 km to 13 km. Aftershock activity extends beyond the north and south ends of the surface rupture, but most hypocenters lie north of the mainshock and at more shallow depths, thus suggesting a unilateral rupture upward and to the northwest. Figure 3 shows only the HYPOELLIPSE A and B quality solutions and the corresponding 94% confidence ellipsoids.

Location parameters for all aftershocks are summarized in Appendix A. Average values for parameters are listed at the bottom of each column.

BORAH PEAK AFTERSHOCKS - ALL QUALITIES

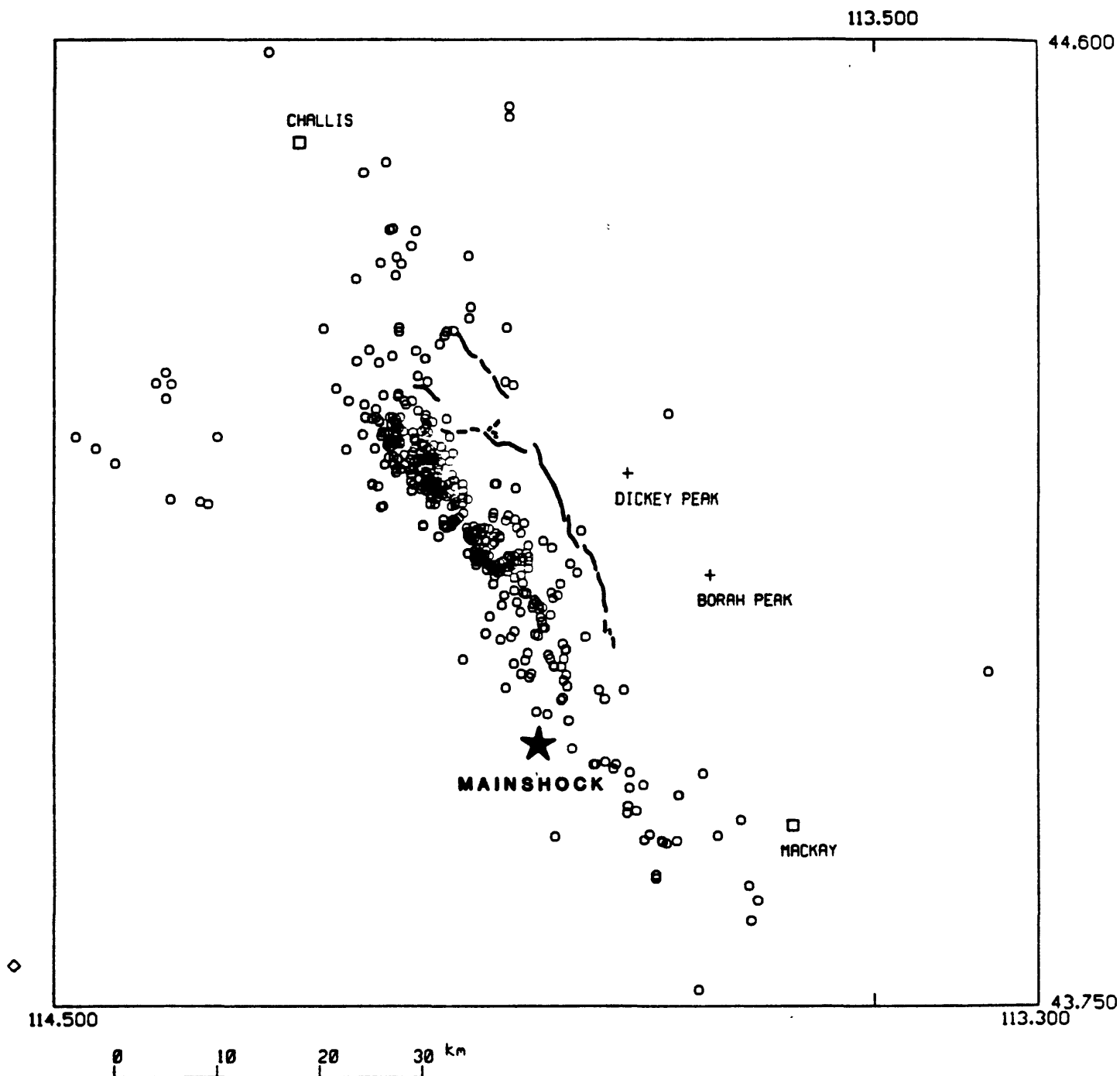


FIGURE 2.-Aftershock epicenter map showing the locations of all 402 located aftershocks.

BORAH PEAK AFTERSHOCKS

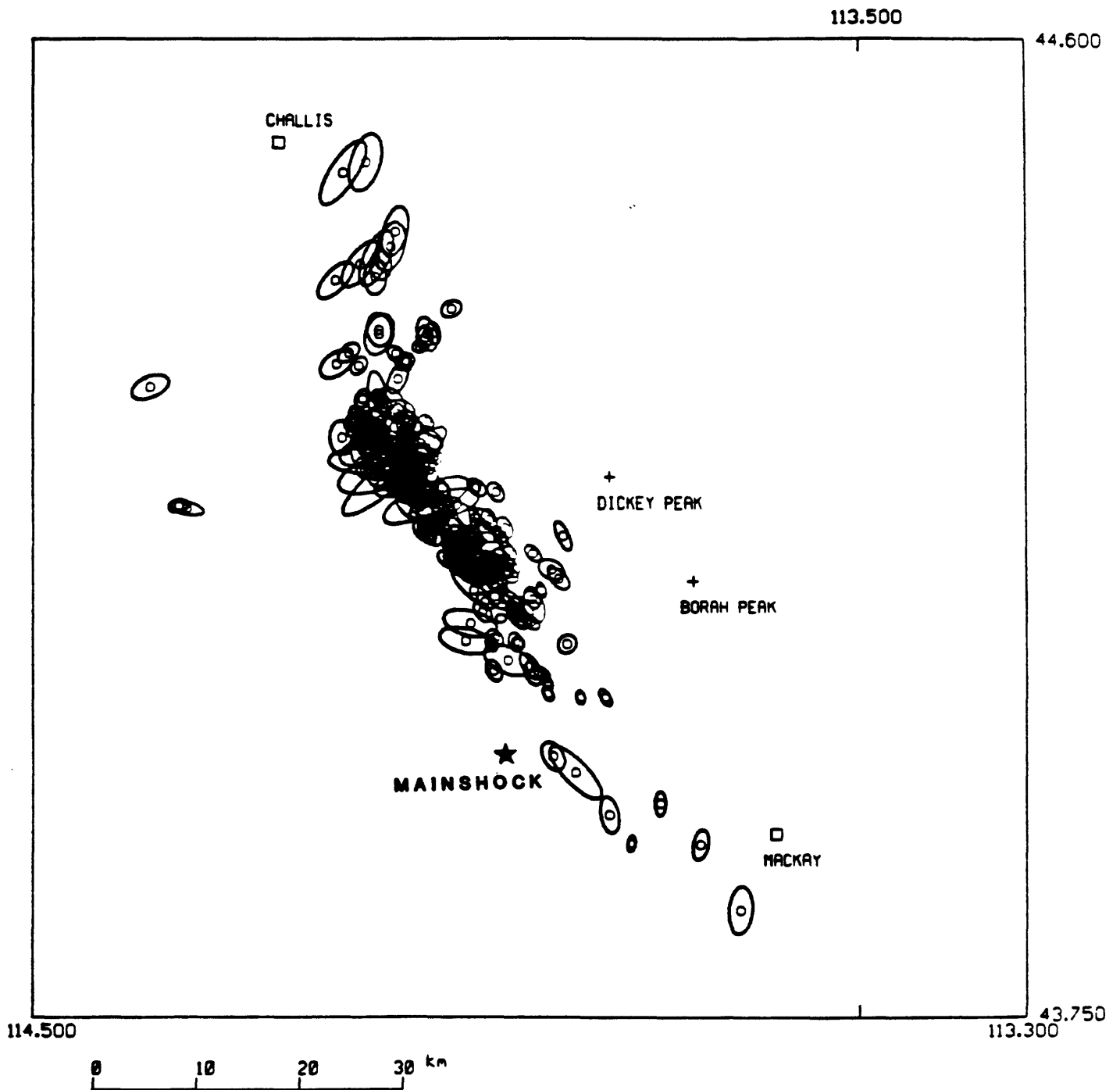


FIGURE 3.—Epicenter map of HYPOELLIPSE A and B quality aftershock locations. The 94% confidence-ellipses are also indicated.

FOCAL MECHANISMS

Focal mechanism solutions (lower hemisphere equal-area projections) for individual aftershocks were computer generated by the program FOCMEC (Snoke and others, 1984). A major advantage in the use of FOCMEC is its capability to search the entire focal sphere for acceptable solutions that contain a minimum number of polarity inconsistencies. By incrementing the focal sphere search at 5 degree intervals, single-event focal mechanism solutions were constructed for 60 aftershocks that have 15 or more identifiable first-motion polarities. The resulting mechanisms assume a double-couple source. Some solutions may have as many as 25 nodal plane orientations that satisfy the data and conditions. For the multiple solution cases, only the average solution is presented (Figure 4, Table 3). Quality ratings were assigned to each mechanism to distinguish whether the given solution is (A) very well-constrained, (B) well-constrained, or (C) less well-constrained. Because our initial conditions of not allowing more than 15% inconsistency, even a C-quality solution is considered good. The average magnitude for the 60 aftershocks in Table 3 is $M_d = 3.0$ and the range is from $M_d = 2.2$ to 4.1.

Nearly 90% of the focal mechanism solutions show a predominant normal mode of faulting, most of which are quite similar to the mainshock focal mechanism. Only five of the 60 mechanisms indicate reverse faulting. These epicenters located just west of the southern segment of surface rupture.

SUMMARY

The Borah Peak earthquake occurred along a segment of the Lost River fault, a range-bounding normal fault in Idaho. Over 400 aftershocks were located in a zone, roughly 75 km by 15 km, oriented subparallel to the surface rupture. Since the mainshock epicenter was south of the surface rupture and most of the aftershocks, and the mainshock hypocenter was deeper than the foci of most aftershocks, the mainshock rupture is thought to have travelled unilaterally upward and to the northwest. Of the 60 focal mechanism solutions determined, most (90%) indicate a normal mode of faulting, with varying amounts of strike-slip components. Only 8% of the solutions suggest reverse motion, and 2% indicate strike-slip faulting.

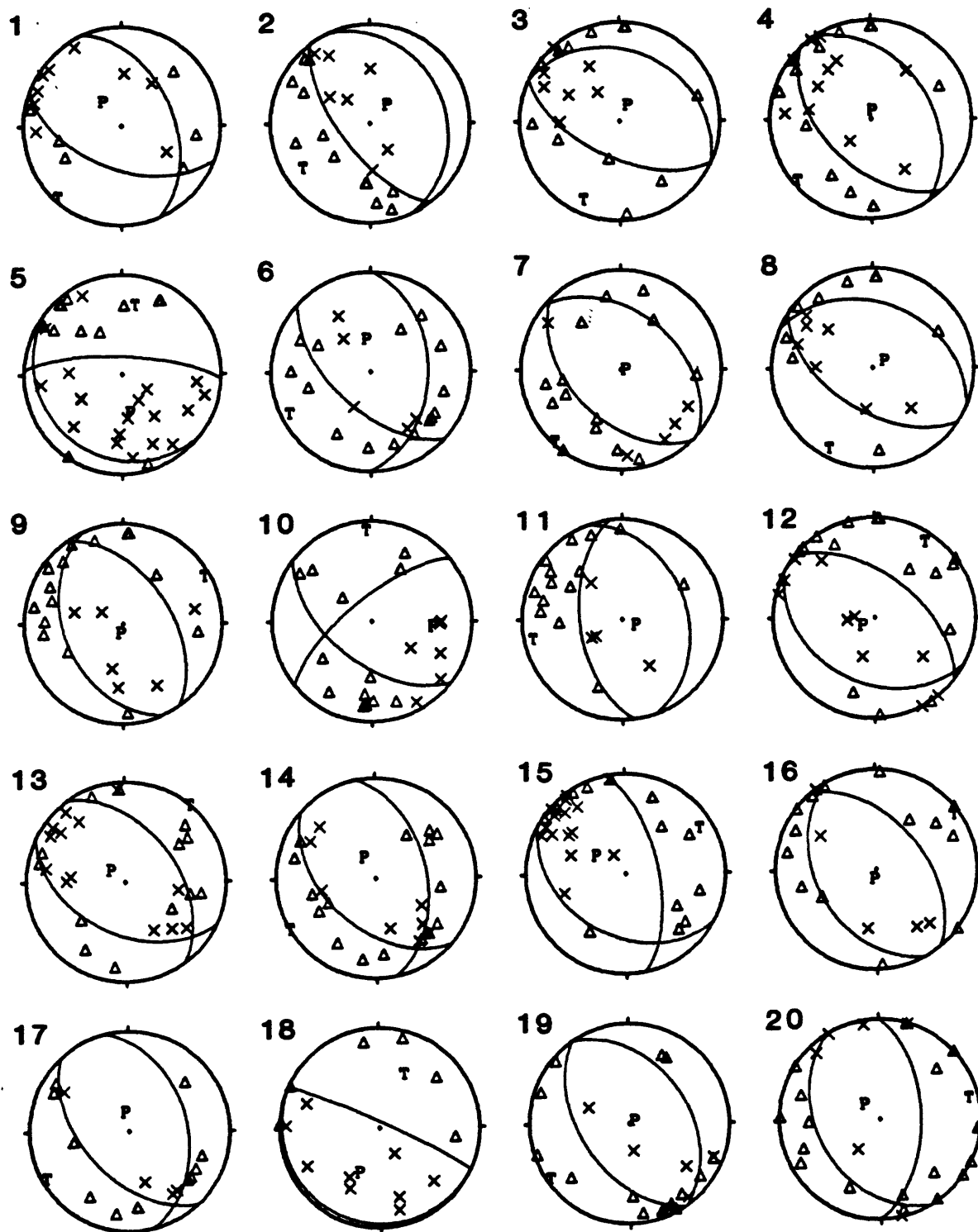


FIGURE 4.—Single-event, lower-hemisphere, equal-area projection focal mechanism solutions for 60 aftershocks of the Borah Peak earthquake sequence. First-motion polarities are indicated: solid triangles represent compressional first motions and X's represent dilatational first motions. The number reported corresponds to Table 3, which lists the locations, qualities, and focal mechanism parameters.

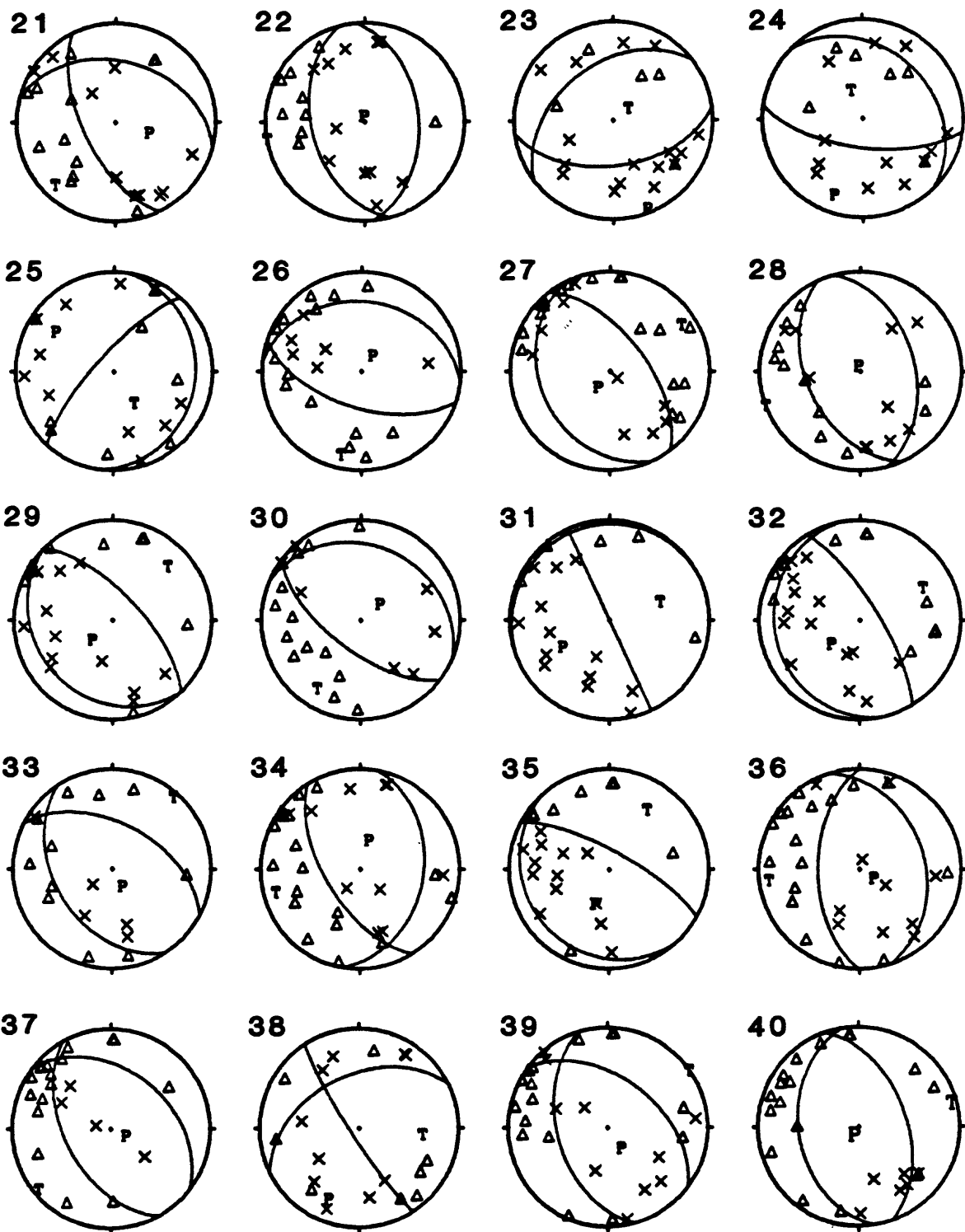


FIGURE 4.-CONTINUED

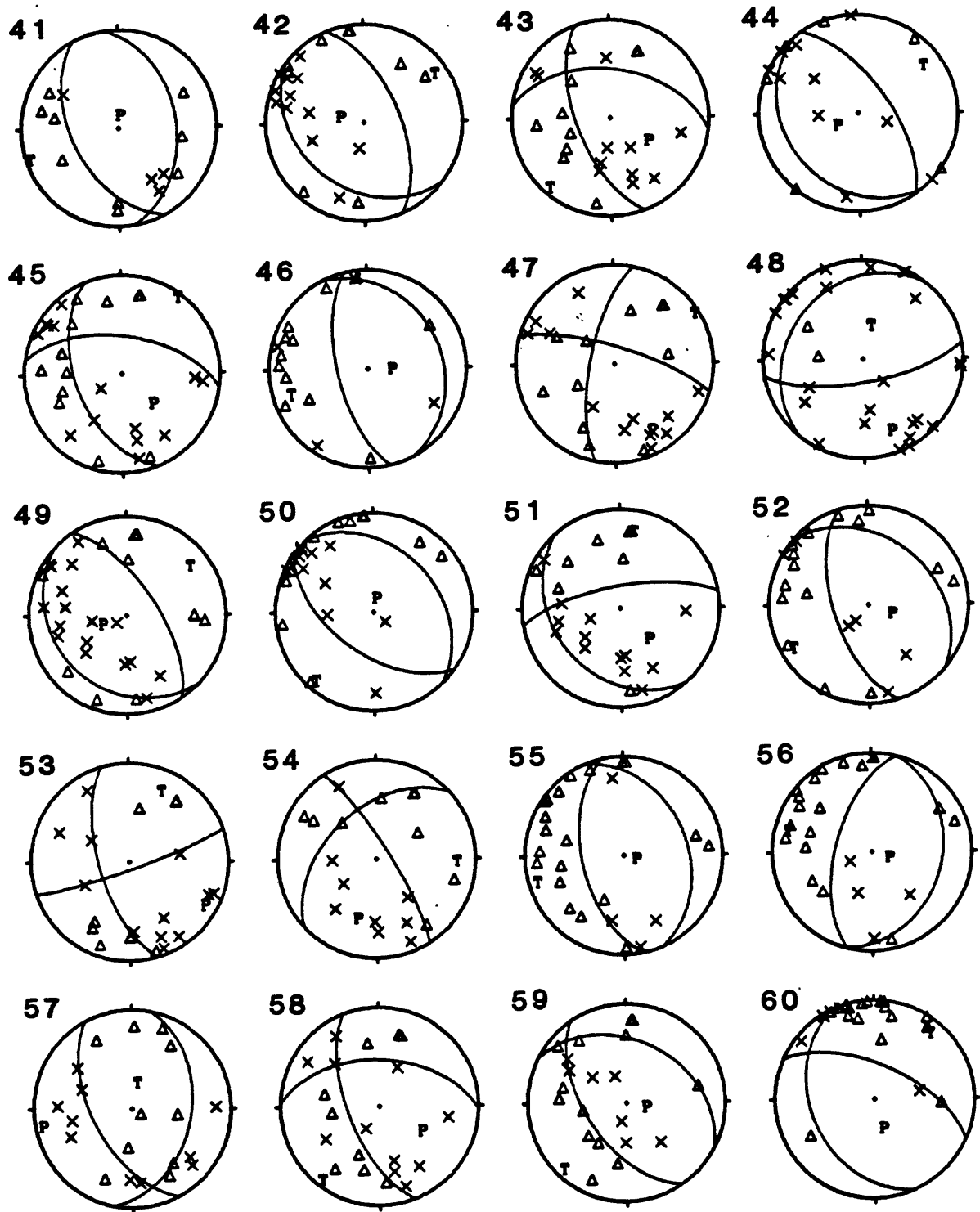


FIGURE 4.-CONTINUED

TABLE 3.—Focal mechanism parameters

MEC NO	DATE (YMD)	ORGN TIME (UTC)	DEPTH (km)	MAG (Md)	QUAL	NODAL PLANE 1			NODAL PLANE 2		
						STRIKE	DIP	SLIP	STRIKE	DIP	SLIP
1	831030	0254 39.79	4.06	4.06	A	337	46	-54	111	54	-121
2	831031	1055 37.32	11.35	2.62	A	336	25	-78	142	65	-96
3	831101	0059 08.13	8.01	2.81	A	295	30	-90	115	60	-90
4	831101	0105 28.19	8.64	3.30	A	326	40	-82	136	50	-97
5	831101	1030 33.66	9.46	3.18	C	128	18	-56	273	75	-100
6	831101	1041 18.25	6.93	3.07	A	1	42	-50	132	39	-120
7	831101	1350 25.26	9.65	3.46	A	135	48	-87	310	42	-93
8	831101	1913 00.91	9.47	2.74	A	123	55	-84	293	35	-98
9	831101	2342 29.30	9.03	3.05	A	156	40	-82	325	50	-97
10	831102	0653 07.14	11.17	3.10	C	128	56	-23	231	71	-144
11	831102	2224 04.62	9.53	3.15	A	173	55	-83	340	36	-100
12	831103	0018 48.51	7.17	3.35	A	308	55	-84	117	35	-98
13	831103	0122 15.85	5.04	3.19	A	325	47	-69	116	47	-111
14	831103	0150 20.33	6.71	3.77	A	349	48	-63	132	49	-117
15	831103	0224 13.92	9.15	3.49	A	349	63	-62	119	38	-133
16	831103	0259 19.40	7.60	3.47	A	151	40	-82	321	50	-97
17	831103	0415 16.47	6.27	3.56	A	347	42	-67	137	52	-109
18	831103	1251 09.08	7.96	3.75	C	295	85	-90	115	5	-90
19	831103	1700 13.41	11.03	3.24	C	326	40	-90	146	50	-90
20	831103	2026 53.84	7.86	2.96	B	0	56	-72	150	38	-115
21	831103	2209 24.65	10.38	3.15	A	154	63	-62	284	38	-133
22	831104	0002 25.47	10.94	2.44	A	355	45	-83	165	45	-97
23	831104	0807 48.67	6.18	2.72	B	233	42	67	83	52	109
24	831104	0904 12.86	6.59	3.17	A	98	66	73	313	28	122
25	831104	0916 09.48	3.89	3.06	B	7	18	56	222	75	100
26	831104	1343 00.95	10.14	2.82	B	108	60	-84	276	30	-100
27	831104	1730 44.33	3.34	3.35	A	154	30	-80	322	60	-96
28	831104	2329 49.49	6.21	3.15	A	345	45	-83	155	45	-97
29	831105	0422 09.12	8.61	3.18	A	316	68	-90	136	22	-90
30	831105	0537 39.87	8.32	3.56	C	127	65	-84	293	26	-103
31	831105	1743 55.12	8.37	3.35	C	245	5	0	335	90	265
32	831105	2256 42.89	10.32	3.62	C	168	16	-71	328	75	-95
33	831106	0139 26.50	10.35	2.20	C	147	42	-67	297	52	-109
34	831106	0644 16.05	8.99	3.22	A	10	36	-54	148	62	-113
35	831106	1449 59.92	10.42	3.00	B	138	16	-71	298	75	-95
36	831107	0933 31.21	8.53	3.24	B	180	56	-80	342	35	-104
37	831107	1733 06.03	10.61	3.32	A	151	52	-75	307	40	-108
38	831107	2119 15.13	5.76	2.46	C	244	46	10	147	83	136
39	831108	0646 34.06	8.23	3.33	A	164	48	-63	307	49	-117
40	831108	2220 41.62	5.11	3.28	A	171	40	-82	340	50	-97
41	831108	2332 43.03	6.81	3.36	A	352	41	-75	152	51	-103
42	831109	2245 18.87	8.92	2.60	C	338	60	-74	128	34	-116
43	831110	0852 38.56	8.84	3.13	C	160	62	-48	278	49	-142
44	831111	0315 24.22	10.28	2.68	C	326	64	-88	141	26	-94
45	831111	0508 48.14	10.58	3.06	A	159	51	-42	278	59	-133
46	831111	1655 34.47	4.89	2.43	C	167	65	-84	333	26	-103
47	831111	2250 47.94	10.33	3.08	B	192	70	-15	287	76	-159
48	831112	0337 54.94	7.39	2.53	B	220	25	52	81	71	106
49	831112	0510 10.64	10.84	2.75	A	327	65	-84	133	26	-103
50	831112	0554 05.12	8.00	2.50	C	317	35	-81	126	55	-96
51	831112	2232 27.49	11.67	2.68	A	139	32	-36	261	72	-117
52	831112	2305 48.00	8.24	2.56	A	163	61	-73	311	33	-118
53	831113	2238 07.48	9.75	2.71	A	164	65	7	71	84	154
54	831115	0810 51.49	11.03	2.83	A	228	48	-15	328	79	-137
55	831115	2149 20.55	8.23	2.94	B	168	55	-84	338	35	-98
56	831116	0455 31.35	8.26	3.04	A	195	60	-90	15	30	-90
57	831116	0950 35.03	6.48	2.62	A	152	57	66	11	40	122
58	831117	0806 40.66	12.20	2.95	A	159	64	-44	272	51	-146
59	831117	1151 47.38	11.77	3.06	B	146	56	-73	297	38	-113
60	831117	1321 42.86	7.50	3.05	B	156	36	-54	294	62	-113

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APPENDIX A.-SUMMARY OF AFTERSHOCK LOCATION PARAMETERS

A summary of the location parameters determined by HYPOELLIPSE (Lahr, 1979) are presented for all aftershocks. Overall averages for each parameter are listed at the bottom of each column.

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	2	3	4	5	6	7	8	9	10	11
								GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA		
51	831029	1737 41.19	44.064N	113.876W	7.02	1.1	3.59	111	0.16	2.35	-108.	2.35	-18.	0.99	A		
52	831029	1741 20.47	44.078N	113.973W	11.16	5.3	3.40	11	0.11	0.97	-98.	2.41	-8.	1.01	A		
53	831029	1923 24.52	44.061N	113.922W	7.89	1.0	3.44	16	0.20	1.57	-103.	2.10	-13.	0.95	A		
	831029	1948 13.42	43.964N	113.841W	6.76	10.9	3.64	10	0.11	1.55	-124.	2.41	-34.	0.77	A		
56	831029	1950 40.93	44.231N	114.043W	5.15	8.5	3.55	8	0.08	1.61	-79.	2.99	11.	1.11	B		
57	831029	2113 59.33	44.108N	113.913W	11.22	4.9	3.53	15	0.12	1.67	-103.	1.60	-13.	0.75	A		
58	831029	2329 11.80	44.231N	114.042W	10.00	8.2	—	10	0.11	5.49	-94.	2.90	44.	2.36	C		
59	831029	2341 30.80	44.348N	113.947W	11.58	21.3	—	4	0.09	29.24	-126.	33.91	-36.	11.00	D		
61	831030	0020 01.31	44.002N	113.872W	9.37	17.0	—	6	0.13	8.83	-119.	3.58	-29.	0.72	C		
62	831030	0024 17.43	43.900N	113.890W	3.27	17.8	—	7	0.25	91.21	-113.	10.63	-23.	3.47	D		
	831030	0028 39.57	44.211N	114.048W	4.97	8.8	3.03	10	0.15	2.47	-79.	4.50	11.	1.65	B		
	831030	0033 04.18	44.174N	114.049W	8.64	10.1	3.41	15	0.17	2.27	-95.	2.40	-5.	1.36	A		
67	831030	0107 41.35	44.225N	114.060W	3.49	9.7	3.68	11	0.08	1.50	-60.	4.69	30.	1.02	B		
68	831030	0116 39.72	44.056N	113.878W	5.81	1.9	3.72	21	0.29	1.90	-119.	2.12	-29.	1.06	A		
	831030	0120 00.87	44.058N	113.897W	10.22	1.2	—	14	0.19	2.32	-108.	2.99	-18.	1.05	B		
	831030	0124 51.67	44.093N	113.968W	10.44	5.7	4.67	23	0.21	1.38	-99.	2.41	-9.	0.97	A		
70	831030	0158 23.80	44.046N	113.362W	10.00	28.9	—	2	0.31	99.00	15.	99.00	-75.	92.92	D		
	831030	0159 01.87	44.208N	114.059W	15.04	9.4	—	17	0.17	2.67	-100.	2.85	-10.	1.50	B		
71	831030	0254 39.79	44.210N	114.111W	4.06	13.6	4.06	21	0.16	1.67	-95.	2.08	-5.	0.79	A		
72	831030	0345 19.01	44.234N	114.091W	6.10	12.0	4.03	17	0.18	1.64	-91.	3.85	-1.	1.16	B		
	831030	0353 47.88	44.219N	114.064W	7.46	10.0	3.11	13	0.16	3.24	-79.	4.29	11.	1.44	B		
	831030	0411 52.84	44.141N	113.955W	6.19	7.2	3.11	14	0.13	1.04	-93.	1.78	-3.	0.77	A		
	831030	0540 15.22	44.224N	114.076W	6.06	10.9	3.39	12	0.17	1.55	-78.	3.70	12.	1.28	B		
	831030	0610 34.82	44.248N	114.084W	0.17	12.0	3.61	12	0.17	13.99	-79.	4.56	11.	1.89	D		
	831030	0625 58.45	44.248N	114.077W	5.08	11.5	3.40	13	0.17	2.65	-79.	5.40	11.	1.91	C		
78	831030	0713 58.88	44.212N	114.016W	17.65	5.6	—	5	0.26	28.11	-18.	24.24	-108.	16.08	D		
79	831030	0805 23.91	44.234N	114.034W	7.72	7.6	3.24	21	0.20	2.33	-96.	2.75	-6.	1.10	B		
	831030	0824 41.02	44.135N	113.971W	6.13	8.6	3.42	14	0.20	1.78	-91.	2.73	-1.	1.18	B		
	831030	0933 10.76	44.256N	114.062W	3.37	10.6	3.28	11	0.13	2.63	-77.	4.04	13.	1.52	B		
82	831030	0941 33.35	44.205N	114.063W	6.82	8.7	3.75	19	0.23	1.59	-80.	5.35	10.	1.69	C		
	831030	1003 09.32	43.956N	113.709W	12.43	10.0	—	7	0.07	3.27	-28.	4.69	-118.	0.97	B		
	831030	1038 04.94	44.136N	113.956W	6.96	7.4	3.46	13	0.10	0.88	-86.	1.64	4.	0.67	A		
85	831030	1225 52.67	44.114N	113.927W	8.81	5.7	3.55	22	0.18	1.59	-101.	1.35	-11.	0.75	A		
	831030	1237 13.73	44.192N	114.010W	6.00	6.4	—	11	0.08	1.28	-81.	1.70	9.	0.60	A		
	831030	1254 00.25	44.193N	114.010W	5.48	6.3	3.46	14	0.12	1.11	-81.	2.26	9.	0.82	A		
	831030	1314 44.15	44.200N	114.021W	3.71	6.9	3.36	13	0.12	1.57	-73.	3.70	17.	1.12	B		
	831030	1410 53.92	44.197N	113.995W	3.98	5.0	2.92	14	0.15	1.55	-80.	2.69	10.	1.01	B		
	831030	1525 33.26	44.142N	113.973W	7.18	8.5	2.99	13	0.09	1.58	-85.	1.43	5.	0.61	A		
	831030	1619 05.29	44.231N	114.017W	3.10	6.9	3.39	12	0.14	2.24	-77.	3.23	13.	1.23	B		
92	831030	1638 07.24	44.049N	113.881W	8.21	6.9	2.59	19	0.07	0.87	-113.	0.74	-23.	0.38	A		
	831030	1738 46.26	44.209N	114.104W	6.14	13.2	3.23	11	0.19	2.19	-87.	6.99	3.	1.87	C		
	831030	1741 07.82	44.163N	113.955W	4.81	6.2	3.09	14	0.18	1.65	-89.	2.12	1.	1.00	A		
95	831030	1749 20.31	44.140N	113.870W	3.34	2.3	3.23	23	0.21	1.52	-104.	1.08	-14.	0.69	A		
	831030	1923 41.95	44.246N	114.082W	7.44	11.8	3.92	9	0.13	5.71	-79.	6.71	11.	2.26	C		
	831030	2106 10.43	44.142N	113.928W	2.95	5.1	3.23	15	0.13	1.48	-102.	0.94	-12.	0.61	A		
2	831030	2157 00.31	44.224N	114.081W	7.04	7.2	2.72	25	0.15	1.63	-114.	1.39	-24.	0.67	A		
903	831030	2213 19.13	44.228N	114.071W	12.61	8.4	1.95	11	0.05	0.73	-124.	1.38	-34.	0.41	A		
4	831030	2220 58.27	44.122N	113.964W	12.01	3.6	1.80	11	0.07	1.19	-121.	0.58	-31.	0.53	A		
	831030	2302 34.55	44.029N	113.806W	7.40	4.8	3.20	29	0.11	0.96	-132.	0.58	-42.	0.29	A		

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	NO	3	4	5	6	7	8	9	10	11
										GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA
6	831030	2318 55.01	44.200N	114.040W	10.25	7.0	1.84	10	185	0.11	2.10	-119.	-119.	2.91	-29.	0.89	B
100	831030	2356 26.09	44.254N	114.081W	5.71	4.5	3.24	30	155	0.17	0.84	-102.	-102.	1.11	-12.	0.61	A
101	831031	0104 33.72	44.099N	113.907W	8.52	2.4	2.84	27	89	0.15	1.13	-123.	-123.	0.93	-33.	0.47	A
831031	0222 53.66	44.294N	114.155W	0.55	14.6	3.43	3.43	13	276	0.10	7.85	-61.	-61.	5.19	29.	1.15	C
831031	0228 28.06	44.179N	113.937W	1.84	4.3			12	95	0.20	12.73	-119.	-119.	1.64	-29.	1.19	D
831031	0443 33.54	44.265N	114.103W	2.85	6.6	3.36	3.36	17	233	0.15	2.32	-70.	-70.	2.78	20.	1.07	B
106	831031	0702 01.62	43.895N	113.758W	13.20	6.7	2.39	13	200	0.13	2.16	-125.	-125.	1.81	-35.	1.14	A
831031	0711 42.51	44.250N	114.061W	3.48	3.3	3.3	3.46	15	243	0.17	1.76	-83.	-83.	3.37	7.	1.06	B
831031	0841 49.11	44.056N	113.895W	7.68	1.5	2.72	2.72	31	77	0.18	1.21	-127.	-127.	0.98	-37.	0.54	A
831031	1032 41.65	44.234N	114.036W	6.77	2.7	3.80	3.80	14	206	0.13	0.95	-70.	-70.	1.75	20.	0.96	A
110	831031	1033 26.08	44.181N	113.964W	9.25	1.0	2.60	15	110	0.12	1.11	-124.	-124.	1.87	-34.	0.60	A
111	831031	1055 37.32	44.112N	113.951W	11.35	5.1	2.62	26	116	0.10	0.98	-119.	-119.	0.73	-29.	0.38	A
831031	1126 17.29	44.251N	114.060W	9.76	3.2			14	227	0.08	2.06	-52.	-52.	1.83	38.	0.91	A
113	831031	1515 16.24	44.211N	113.960W	6.64	1.7	2.58	28	73	0.15	0.63	-111.	-111.	0.85	-21.	0.52	A
831031	1608 33.52	44.139N	113.984W	9.56	5.8			15	144	0.17	3.31	-97.	-97.	1.64	-7.	0.98	B
831031	2114 17.49	44.257N	114.073W	6.43	4.2			12	236	0.14	1.58	-61.	-61.	2.83	29.	1.66	B
116	831031	2227 45.86	44.008N	113.890W	11.37	10.3	2.53	13	120	0.11	2.39	38.	38.	1.45	-52.	0.49	A
117	831101	0027 47.56	44.156N	113.921W	7.17	4.1	2.88	30	52	0.14	0.95	-123.	-123.	0.67	-33.	0.39	A
118	831101	0059 08.13	44.217N	114.036W	8.01	4.0	2.81	25	74	0.15	1.42	-111.	-111.	0.95	-21.	0.59	A
119	831101	0105 28.19	44.231N	114.052W	8.64	3.6	3.30	34	83	0.10	0.83	-102.	-102.	0.49	-12.	0.32	A
120	831101	0158 05.44	44.173N	114.016W	11.39	3.5	2.22	14	83	0.10	1.02	-134.	-134.	0.98	-44.	0.54	A
121	831101	0247 43.37	44.142N	113.952W	5.20	2.8	2.48	29	76	0.16	0.83	-120.	-120.	0.70	-30.	0.53	A
831101	0437 47.90	44.819N	114.642W	5.35	77.6			13	342	0.16	99.00	-36.	-36.	99.00	-126.	7.48	D
123	831101	0448 32.96	44.235N	114.085W	7.20	5.6	3.07	23	186	0.15	1.90	-102.	-102.	1.50	-12.	0.58	A
124	831101	0502 46.75	44.050N	113.891W	6.64	3.1	3.09	31	84	0.19	0.91	-126.	-126.	0.80	-36.	0.56	A
125	831101	0924 04.42	44.159N	113.962W	8.43	0.9	2.34	14	75	0.07	0.62	42.	42.	0.67	-48.	0.41	A
126	831101	1030 33.66	44.133N	113.946W	9.46	3.7	3.18	35	76	0.14	0.93	-115.	-115.	0.59	-25.	0.40	A
127	831101	1041 18.25	44.220N	114.044W	6.93	4.3	3.07	31	78	0.10	0.41	-108.	-108.	0.50	-18.	0.32	A
128	831101	1234 24.95	44.132N	113.958W	10.04	3.0	2.91	33	79	0.15	0.98	-108.	-108.	0.65	-18.	0.43	A
129	831101	1341 54.87	44.092N	113.906W	7.80	3.0	2.18	13	99	0.05	0.42	-117.	-117.	0.37	-27.	0.23	A
130	831101	1350 25.26	44.151N	113.987W	9.65	0.2	3.46	30	84	0.15	1.01	-111.	-111.	0.70	-21.	0.45	A
131	831101	1646 12.53	44.201N	114.026W	8.92	2.2	2.75	26	73	0.08	0.67	-119.	-119.	0.44	-29.	0.29	A
133	831101	1820 16.88	44.173N	113.987W	10.02	1.6	2.45	12	77	0.09	0.96	45.	45.	0.97	-45.	0.56	A
134	831101	1909 08.74	44.185N	113.963W	4.85	0.7	2.07	11	125	0.07	0.57	22.	22.	0.78	-68.	0.45	A
135	831101	1913 00.91	44.241N	114.040W	9.47	2.2	2.74	24	76	0.09	0.90	-108.	-108.	0.55	-18.	0.39	A
137	831101	2136 45.65	44.146N	113.944W	7.51	4.7	2.91	24	73	0.08	0.80	-113.	-113.	0.44	-23.	0.29	A
138	831101	2342 29.30	44.201N	114.039W	9.03	3.0	3.05	28	75	0.11	0.85	-119.	-119.	0.60	-29.	0.41	A
140	831102	0157 50.24	44.135N	113.965W	10.65	3.1	2.84	21	123	0.11	1.03	-110.	-110.	0.71	-20.	0.48	A
141	831102	0603 23.83	44.232N	114.035W	9.19	8.1	2.69	12	109	0.08	1.29	-121.	-121.	0.73	-31.	0.44	A
831102	0633 57.68	44.218N	114.044W	12.42	4.5			10	187	0.13	7.30	-34.	-34.	3.32	-124.	1.87	C
143	831102	0653 07.14	43.978N	113.868W	11.17	6.2	3.10	25	140	0.15	1.27	-126.	-126.	1.04	-36.	0.65	A
831102	0901 38.51	44.205N	114.039W	12.28	3.2			12	182	0.10	3.43	-126.	-126.	1.75	34.	1.21	B
831102	0953 14.90	44.191N	114.014W	8.94	0.7			11	166	0.14	3.53	-67.	-67.	1.86	23.	1.42	B
146	831102	1241 13.39	44.260N	114.078W	4.48	4.6	3.63	24	99	0.16	1.30	-86.	-86.	0.91	4.	0.62	A
831102	1455 59.67	44.248N	114.081W	10.86	4.9			12	226	0.04	1.57	-46.	-46.	1.29	44.	0.60	A
831102	1623 26.60	44.280N	114.070W	8.43	3.5			9	253	0.10	5.22	-34.	-34.	5.15	-124.	1.89	C
831102	1917 22.61	44.210N	114.027W	5.42	2.9	3.19	3.19	15	175	0.22	2.16	-93.	-93.	2.29	-3.	1.28	A
151	831102	2032 22.58	44.259N	114.083W	4.76	4.8	2.73	27	105	0.12	0.80	-85.	-85.	0.66	5.	0.48	A
152	831102	2040 09.82	44.246N	114.077W	3.88	4.6	2.31	17	101	0.10	1.40	-102.	-102.	0.66	-12.	0.52	A
153	831102	2104 55.06	44.269N	114.090W	5.43	2.8	2.25	11	90	0.05	0.52	14.	14.	0.48	-76.	0.40	A
154	831102	2106 08.11	44.230N	114.060W	7.86	5.0	2.41	9	139	0.09	1.44	-134.	-134.	1.18	-44.	0.74	A

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	2	3	4	RMS (sec)	5	6	7	8	9	10	11
									NO	GAP (deg)		ERZ (km)	AZ1 (deg)	AZ2 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA
831102	2108 21.05	44.160N	113.903W	0.64	5.7	3.03	12	79	0.16	11.51	1.07	-99.	-9.	1.07	-9.	0.87	D	
156	831102	2110 27.30	44.287N	114.080W	6.73	2.8	1.74	8	186	0.08	1.30	2.23	13.	-77.	2.23	-77.	0.83	A
157	831102	2147 31.38	44.195N	114.322W	9.96	9.8	2.71	16	277	0.05	1.26	0.92	-83.	7.	0.92	7.	0.51	A
158	831102	2224 04.62	44.236N	114.063W	9.53	3.9	3.15	22	90	0.08	0.89	0.53	-64.	26.	0.53	26.	0.51	A
159	831102	2229 36.56	44.230N	114.028W	10.77	2.9	2.66	20	63	0.11	1.29	0.91	32.	-58.	0.91	-58.	0.64	A
160	831102	2342 01.86	44.264N	114.081W	6.55	3.7	3.26	26	77	0.13	0.71	0.70	-4.	-94.	0.70	-94.	0.65	A
161	831102	2343 55.09	44.269N	114.077W	6.66	3.8	3.70	32	76	0.20	0.86	1.10	-12.	-102.	1.10	-102.	0.98	A
162	831103	0018 48.51	44.256N	114.043W	7.17	1.8	3.35	31	74	0.15	1.09	0.85	-95.	-5.	0.85	-5.	0.54	A
163	831103	0055 56.28	44.263N	114.045W	9.66	2.1	3.00	29	123	0.19	1.14	1.47	-94.	-4.	1.47	-4.	0.80	A
164	831103	0122 15.85	44.259N	114.082W	5.04	4.9	3.19	29	103	0.15	0.78	0.79	-92.	-2.	0.79	-2.	0.57	A
165	831103	0150 20.33	44.245N	114.093W	6.71	5.9	3.77	32	116	0.14	0.66	0.82	-86.	4.	0.82	4.	0.63	A
166	831103	0224 13.92	44.318N	114.130W	9.15	2.7	3.49	30	193	0.17	1.07	1.42	-70.	20.	1.42	20.	0.83	A
167	831103	0259 19.40	44.226N	114.043W	7.60	3.7	3.47	32	78	0.15	1.08	0.82	-101.	-11.	0.82	-11.	0.51	A
168	831103	0332 51.77	44.194N	114.001W	8.10	3.8	2.38	14	95	0.06	0.54	0.53	-122.	-32.	0.53	-32.	0.29	A
169	831103	0415 16.47	44.247N	114.091W	6.27	5.7	3.56	28	114	0.20	0.93	1.10	-93.	-3.	1.10	-3.	0.85	A
170	831103	0447 35.67	44.271N	114.047W	10.11	2.6	3.43	32	68	0.16	0.98	1.07	-92.	-2.	1.07	-2.	0.65	A
171	831103	0538 11.92	44.142N	113.935W	5.26	3.7	2.86	29	99	0.21	1.09	1.06	-109.	-19.	1.06	-19.	0.61	A
172	831103	0812 51.31	44.211N	114.001W	4.86	4.5	2.66	14	106	0.09	0.72	1.00	-118.	-28.	1.00	-28.	0.41	A
831103	0923 45.18	44.160N	113.973W	12.43	4.1	—	13	121	0.10	2.56	1.00	-101.	-11.	1.00	-11.	0.83	B	
831103	1045 13.21	44.205N	114.045W	7.69	3.6	2.89	31	76	0.19	1.43	1.00	-97.	-7.	1.00	-7.	0.70	A	
831103	1152 09.13	44.142N	113.982W	13.58	5.5	—	13	142	0.07	1.91	0.80	-97.	-7.	0.80	-7.	0.59	A	
831103	1218 35.88	44.348N	114.078W	7.47	5.7	2.33	12	170	0.10	1.35	1.03	-118.	-28.	1.03	-28.	0.97	A	
831103	1233 03.05	44.268N	114.021W	5.69	1.4	2.19	14	112	0.08	0.52	0.61	-109.	-19.	0.61	-19.	0.42	A	
831103	1251 09.08	44.163N	113.986W	7.96	3.2	3.75	16	135	0.18	2.17	1.53	-96.	-6.	1.53	-6.	1.07	A	
831103	1414 18.06	44.243N	114.089W	5.90	5.6	4.19	18	228	0.17	1.18	2.68	-80.	10.	2.68	10.	1.09	B	
831103	1547 29.72	44.245N	114.036W	5.70	1.6	4.12	24	161	0.34	2.52	2.60	-34.	-56.	2.60	-56.	1.33	B	
831103	1700 13.41	43.857N	113.653W	11.03	4.1	3.24	24	90	0.15	1.69	0.80	-123.	-33.	0.80	-33.	0.51	A	
699	831103	1824 15.92	44.164N	114.030W	7.30	6.5	2.75	27	72	0.08	1.30	0.54	-110.	-20.	0.54	-20.	0.41	A
200	831103	1841 24.67	44.076N	113.909W	8.53	7.2	2.05	16	162	0.21	2.54	2.18	-93.	-3.	2.18	-3.	1.64	B
831103	1956 56.71	44.214N	114.011W	7.17	4.7	3.40	13	79	0.16	1.46	0.73	-122.	-32.	0.73	-32.	0.47	A	
831103	2026 53.84	44.160N	113.981W	7.86	3.6	2.96	30	68	0.06	0.59	0.40	-126.	-36.	0.40	-36.	0.35	A	
831103	2140 38.55	44.257N	114.051W	8.29	3.2	2.27	14	81	0.16	1.01	0.85	-120.	-30.	0.85	-30.	0.52	A	
201	831103	2209 24.65	44.103N	113.953W	10.38	5.6	3.15	30	168	0.17	1.32	1.30	-48.	42.	1.30	42.	1.02	A
202	831103	2337 08.70	44.344N	114.078W	7.52	5.7	2.98	27	80	0.09	0.71	0.51	-116.	-26.	0.51	-26.	0.33	A
203	831104	0002 25.47	44.178N	114.009W	10.94	1.2	2.44	27	184	0.08	2.00	1.21	-53.	37.	1.21	37.	0.83	A
831104	0255 34.97	44.216N	114.040W	10.58	4.2	—	13	103	0.15	1.26	0.94	-100.	-10.	0.94	-10.	0.71	A	
831104	0409 14.68	44.256N	114.081W	4.72	5.2	2.39	16	74	0.14	0.94	0.58	-118.	-28.	0.58	-28.	0.36	A	
831104	0500 14.85	44.138N	113.941W	8.62	3.7	3.30	35	173	0.09	0.96	0.78	-102.	-12.	0.78	-12.	0.41	A	
831104	0631 32.80	44.202N	114.025W	8.58	5.8	—	19	72	0.16	1.05	0.96	-106.	-16.	0.96	-16.	0.48	A	
831104	0708 19.26	44.205N	114.027W	8.53	5.6	3.44	34	70	0.21	1.23	0.96	-129.	-39.	0.96	-39.	0.67	A	
831104	0807 48.67	44.145N	113.928W	6.18	5.0	2.72	27	100	0.05	1.10	0.42	-4.	-86.	0.42	-86.	0.34	A	
206	831104	0845 27.54	44.223N	114.056W	8.58	9.0	2.58	12	69	0.20	0.99	0.65	-113.	-23.	0.65	-23.	0.54	A
207	831104	0904 12.86	44.142N	113.921W	6.59	4.6	3.17	28	73	0.14	1.15	0.59	-112.	-22.	0.59	-22.	0.42	A
208	831104	0916 09.50	44.143N	113.940W	4.01	3.4	3.06	27	79	0.21	1.96	1.26	-111.	-21.	1.26	-21.	0.77	A
209	831104	1343 00.95	44.193N	114.040W	10.14	6.3	2.82	28	114	0.08	2.06	0.96	-11.	-79.	0.96	-79.	0.50	A
210	831104	1425 07.78	43.960N	113.817W	12.23	2.1	2.22	13	100	0.08	2.12	0.89	-116.	-26.	0.89	-26.	0.61	A
211	831104	1510 39.77	44.208N	114.032W	10.87	6.6	2.25	10	94	0.05	1.29	0.52	-11.	-63.	0.52	-63.	0.39	A
212	831104	1527 36.66	44.210N	114.061W	9.13	8.8	2.79	11	101	0.02	0.51	0.21	47.	-47.	0.21	-47.	0.15	A
213	831104	1544 00.35	44.212N	114.035W	8.41	7.0	2.59	9	95	0.22	1.65	1.10	-108.	-18.	1.10	-18.	0.67	A
214	831104	1730 44.33	44.252N	114.017W	3.34	0.4	3.35	30	199	0.18	4.93	3.35	-27.	-63.	3.35	-63.	2.01	B
215	831104	1926 50.24	44.298N	113.939W	2.88	6.5	3.22	10										

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	NO	GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	10	11
																	QUA
715	831104	2006 44.64	44.169N	113.856W	7.09	3.1	2.37	8	125	0.04	1.41	36.	0.99	-54.	0.39	A	
216	831104	2130 11.88	44.106N	113.911W	8.16	4.6	2.47	13	92	0.09	1.04	-133.	0.75	-43.	0.46	A	
716	831104	2259 37.71	44.075N	113.942W	10.68	2.8	2.54	12	79	0.06	0.66	-124.	0.53	-34.	0.35	A	
217	831104	2329 49.49	44.249N	114.088W	6.21	4.5	3.15	32	94	0.20	1.05	17.	0.99	-73.	0.88	A	
717	831104	2336 45.38	44.236N	114.072W	8.12	5.4	2.69	16	84	0.09	1.00	34.	0.55	-56.	0.49	A	
718	831105	0018 31.29	44.157N	113.965W	10.03	3.4	2.52	12	76	0.08	1.37	-130.	0.70	-40.	0.47	A	
218	831105	0151 49.51	44.137N	113.965W	8.45	2.9	3.36	23	139	0.16	1.47	-104.	0.94	-14.	0.55	A	
219	831105	0353 34.29	44.154N	113.892W	6.20	1.9	2.83	26	61	0.15	0.89	-118.	0.68	-28.	0.44	A	
220	831105	0422 09.12	44.142N	113.973W	10.19	6.3	2.04	11	95	0.05	0.98	-126.	0.43	-36.	0.31	A	
222	831105	0537 39.87	44.223N	114.065W	8.32	5.0	3.56	29	80	0.13	1.24	-116.	0.72	-26.	0.65	A	
223	831105	0808 35.03	43.943N	113.799W	11.34	0.9	2.35	10	121	0.08	0.93	-121.	0.88	-31.	0.47	A	
224	831105	0813 39.31	44.211N	114.019W	9.13	2.7	2.96	25	138	0.08	0.87	-121.	1.09	-69.	0.70	A	
225	831105	1041 36.01	44.320N	114.046W	10.05	9.2	2.84	9	137	0.04	1.38	27.	0.63	-63.	0.43	A	
228	831105	1736 25.56	44.174N	114.024W	9.26	5.7	3.51	34	84	0.18	1.63	-114.	0.87	-24.	0.65	A	
226	831105	1742 38.98	44.219N	114.014W	11.47	5.9	2.34	10	110	0.06	1.11	30.	0.68	-60.	0.47	A	
227	831105	1743 55.12	44.148N	113.974W	8.37	4.6	3.35	32	81	0.32	2.71	-116.	1.46	-26.	0.84	B	
728	831105	1843 12.64	44.236N	114.072W	9.72	10.8	2.44	8	127	0.05	1.86	-89.	0.66	1.	0.59	A	
229	831105	2029 30.35	44.193N	114.034W	8.43	2.3	3.55	26	178	0.21	1.46	-111.	1.60	-21.	0.82	A	
230	831105	2256 42.89	44.213N	114.034W	10.32	3.5	3.62	35	69	0.13	0.99	-133.	0.68	-43.	0.50	A	
231	831105	2257 40.68	44.178N	113.948W	6.57	4.8		18	82	0.19	1.59	-132.	1.19	-42.	0.70	A	
232	831106	0139 29.06	44.223N	114.030W	11.47	4.1	2.88	15	104	0.06	0.74	-128.	0.51	-38.	0.37	A	
233	831106	0326 08.85	44.280N	114.121W	7.83	8.5		13	78	0.07	0.92	-123.	0.60	-37.	0.41	A	
234	831106	0644 16.05	44.166N	113.976W	8.99	2.9	3.22	35	234	0.10	2.76	-73.	2.34	17.	0.93	B	
734	831106	0705 10.61	44.174N	114.014W	10.45	4.9	2.45	10	76	0.15	1.11	-124.	0.70	-34.	0.45	A	
735	831106	0735 18.37	44.265N	114.085W	5.82	3.4	2.54	12	82	0.03	0.69	25.	0.35	-65.	0.26	A	
235	831106	0747 04.89	44.217N	114.032W	7.89	7.0	2.23	9	145	0.05	0.40	-45.	0.37	-135.	0.32	A	
236	831106	0753 25.42	44.232N	114.039W	9.56	8.4	2.60	10	104	0.06	1.17	44.	0.76	-46.	0.58	A	
237	831106	1001 45.89	44.145N	113.986W	9.71	5.0	3.27	23	111	0.07	1.80	-6.	0.70	-96.	0.62	A	
238	831106	1004 36.65	43.896N	113.759W	11.72	6.5	2.63	17	94	0.20	1.84	-121.	1.34	-31.	0.82	A	
239	831106	1316 06.88	44.136N	113.961W	10.77	5.6	2.30	19	186	0.11	1.89	-16.	1.07	-106.	0.91	A	
240	831106	1601 16.59	44.116N	113.938W	10.95	8.0	3.00	30	79	0.09	1.25	44.	0.52	-46.	0.41	A	
241	831106	1613 27.59	44.031N	113.949W	11.63	10.7	2.58	10	76	0.13	1.00	-126.	0.68	-36.	0.54	A	
242	831106	1628 21.67	44.147N	113.938W	6.51	4.7	2.38	8	80	0.05	1.14	42.	0.51	-48.	0.36	A	
	831106	1721 03.44	44.209N	114.012W	11.55	5.2	2.55	9	106	0.05	0.76	-118.	0.61	-28.	0.51	A	
	831106	2104 48.88	44.139N	113.969W	8.60	6.2	4.42	26	73	0.05	0.83	-121.	0.32	-63.	0.23	A	
	831106	2111 55.16	44.143N	113.974W	9.32	2.2	4.04	24	105	0.03	1.45	-131.	0.74	-41.	0.54	A	
	831106	2119 56.46	44.150N	113.981W	8.83	1.6	3.11	24	123	0.19	1.56	-121.	1.32	-31.	0.63	A	
	831106	2311 38.62	44.231N	114.040W	6.97	3.1	3.44	22	174	0.18	1.25	-101.	1.33	-11.	0.67	A	
244	831107	0106 45.55	44.141N	113.971W	10.50	5.3	2.41	10	95	0.15	0.78	-112.	1.01	-22.	0.80	A	
245	831107	0413 38.61	44.225N	114.032W	9.95	7.4	2.52	10	81	0.06	1.48	-134.	0.67	-44.	0.39	A	
246	831107	0933 31.21	44.171N	113.968W	8.53	1.0	3.24	37	107	0.06	1.58	45.	0.71	-45.	0.52	A	
247	831107	1030 49.40	44.147N	113.969W	10.64	4.6	2.61	11	73	0.14	0.79	-122.	0.62	-32.	0.37	A	
248	831107	1035 23.99	44.171N	113.978W	9.12	2.5	2.51	11	79	0.06	1.30	-123.	0.59	-33.	0.33	A	
249	831107	1157 05.48	43.896N	113.741W	12.20	7.5	2.21	13	75	0.08	1.71	-135.	0.92	-45.	0.49	A	
250	831107	1317 30.75	44.020N	113.881W	11.14	5.7	2.18	14	181	0.06	1.75	-9.	1.28	-99.	0.67	A	
251	831107	1405 46.55	44.276N	114.107W	8.43	1.3	3.06	26	106	0.09	1.78	-131.	0.71	-41.	0.47	A	
									82	0.07	0.52	-70.	0.46	20.	0.38	A	

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	NO	GAP (deg)	RMS (sec)	ERZ (km)	AZI (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA
751	831107	1439 05.05	44.405N	114.101W	5.81	3.7	2.75	9	256	0.06	0.81	-51.	1.83	39.	0.79	A
252	831107	1733 06.03	44.259N	114.047W	10.61	2.1	3.32	27	75	0.08	0.60	-113.	0.49	-23.	0.40	A
253	831107	1846 00.71	44.197N	114.357W	8.13	12.7	2.97	11	271	0.16	7.61	-92.	7.26	-2.	1.93	C
254	831107	1917 20.74	44.130N	113.930W	9.46	6.6	2.27	10	81	0.05	1.36	-135.	0.57	-45.	0.33	A
753	831107	1922 04.25	44.323N	114.087W	0.51	3.6	2.28	13	138	0.09	1.91	-92.	0.86	-2.	0.46	A
255	831107	2100 32.69	44.242N	114.449W	5.98	21.0	2.56	14	282	0.15	2.22	-86.	2.96	4.	1.61	B
754	831107	2119 15.13	44.136N	113.921W	5.76	5.0	2.46	22	107	0.15	1.01	-112.	0.77	-22.	0.52	A
256	831107	2232 26.63	44.224N	114.061W	8.10	9.1	2.62	12	99	0.07	1.77	-120.	0.57	-30.	0.43	A
257	831107	2355 39.61	44.083N	113.905W	11.71	12.2	2.64	10	94	0.09	3.57	-133.	1.08	-43.	0.55	B
258	831108	0138 02.41	44.161N	113.973W	10.23	3.3	2.74	11	77	0.06	0.74	-134.	0.61	-44.	0.37	A
259	831108	0214 59.72	44.214N	114.040W	9.11	7.4	2.79	12	100	0.07	1.63	-102.	0.56	-12.	0.45	A
260	831108	0250 03.90	44.043N	113.918W	11.68	3.8	1.88	17	84	0.12	1.72	-116.	0.70	-26.	0.60	A
261	831108	0610 53.95	44.252N	114.300W	0.09	7.4	3.04	25	262	0.22	6.78	-75.	4.01	15.	1.28	C
262	831108	0614 55.05	43.966N	113.827W	12.15	3.1	2.19	15	123	0.11	2.38	38.	0.96	-52.	0.71	A
263	831108	0643 02.53	44.167N	113.960W	8.30	1.1	3.05	31	73	0.17	1.46	42.	0.71	-48.	0.53	A
763	831108	0646 34.06	44.208N	114.039W	8.23	3.5	3.33	26	72	0.15	1.15	-96.	0.55	-6.	0.51	A
	831108	0711 47.54	44.141N	113.951W	2.46	6.8	3.28	16	77	0.15	2.21	-133.	0.84	-43.	0.67	A
764	831108	0744 06.38	44.267N	114.082W	5.43	4.1	2.58	10	104	0.08	1.08	-124.	0.87	-34.	0.65	A
264	831108	0857 58.28	44.391N	114.131W	8.81	3.4	2.56	15	237	0.09	1.34	-58.	1.64	32.	0.72	A
265	831108	1056 00.29	44.228N	114.084W	8.21	5.9	3.13	26	102	0.13	1.56	-29.	0.68	-119.	0.58	A
266	831108	1333 12.30	44.253N	114.100W	8.40	5.0	2.13	18	124	0.10	1.65	-71.	0.79	19.	0.55	A
267	831108	1842 47.88	44.203N	114.017W	9.68	5.2	2.32	11	136	0.07	0.90	-128.	0.81	-38.	0.47	A
268	831108	1935 14.68	44.137N	113.946W	10.94	5.6	2.45	11	75	0.06	0.86	-133.	0.63	-43.	0.37	A
269	831108	1935 57.21	44.109N	113.891W	6.95	10.1	2.55	10	102	0.11	1.56	31.	1.17	-59.	0.66	A
	831108	1945 57.24	44.103N	113.908W	6.28	5.1	—	15	67	0.17	1.44	-117.	1.07	-27.	0.93	A
270	831108	2028 31.74	44.114N	113.923W	10.69	8.5	2.40	11	86	0.04	0.76	-130.	0.44	-40.	0.24	A
770	831108	2046 09.99	44.202N	114.030W	7.53	2.5	3.14	28	74	0.10	0.87	-130.	0.50	-40.	0.35	A
271	831108	2059 07.91	44.204N	114.033W	8.44	6.5	2.26	11	98	0.09	1.37	44.	0.96	-46.	0.60	A
272	831108	2220 41.62	44.256N	114.096W	5.11	4.8	3.28	29	102	0.16	1.09	-57.	0.71	33.	0.59	A
	831108	2332 43.03	44.233N	114.057W	6.81	3.8	3.36	31	74	0.12	0.57	-117.	0.54	-27.	0.41	A
274	831108	2339 18.61	44.420N	114.064W	4.63	2.1	2.25	17	176	0.13	1.22	-31.	1.57	-121.	0.99	A
275	831109	0453 51.03	44.137N	113.944W	11.46	5.7	2.67	12	75	0.08	1.05	-126.	0.79	-36.	0.42	A
276	831109	0738 02.29	44.164N	113.963W	11.38	2.7	2.40	11	74	0.07	1.42	-128.	0.74	-38.	0.41	A
277	831109	0741 42.10	44.147N	113.947W	5.46	4.5	2.91	29	74	0.16	0.96	43.	0.65	-47.	0.47	A
	831109	0925 04.56	44.432N	114.059W	3.81	3.3	3.62	26	300	0.16	1.22	-25.	1.71	-115.	0.94	A
831109	1015 16.27	43.742N	113.701W	4.94	33.5	—	—	11	319	0.18	4.87	-22.	26.61	-112.	3.15	D
831109	1140 47.90	44.021N	113.828W	7.40	9.0	1.90	13	101	0.13	3.30	—	-119.	1.01	-29.	0.74	B
279	831109	1142 45.82	44.152N	113.972W	9.83	4.2	2.36	11	79	0.07	1.60	32.	0.69	-58.	0.45	A
779	831109	1146 54.08	44.088N	113.905W	11.33	3.9	2.81	24	65	0.21	2.56	-119.	1.29	-29.	0.76	B
280	831109	1255 21.37	44.122N	113.882W	8.50	8.7	2.04	11	108	0.05	1.36	38.	0.51	-52.	0.27	A
281	831109	1309 12.14	44.493N	114.095W	6.08	8.7	3.24	27	261	0.15	1.01	-30.	1.89	-120.	1.08	A
282	831109	1358 10.48	44.283N	114.140W	0.47	10.0	—	12	147	0.15	99.00	-98.	1.29	-8.	1.15	D
283	831109	1406 52.07	44.168N	113.978W	10.74	2.8	2.62	10	127	0.04	1.28	3.	0.89	-87.	0.28	A
284	831109	1518 53.55	44.161N	113.990W	12.38	4.0	2.13	12	81	0.06	1.26	-114.	0.55	-24.	0.35	A
285	831109	1614 33.53	44.256N	114.099W	7.67	4.7	2.61	17	123	0.07	0.94	-88.	0.42	2.	0.33	A
286	831109	1848 50.09	44.198N	114.011W	9.22	4.6	2.48	10	134	0.12	2.72	-127.	1.74	-37.	0.85	B
287	831109	2016 10.25	44.159N	112.273W	10.00	06.7	2.15	2	353	0.33	99.00	-79.	46.98	11.	13.97	D
	831109	2106 55.60	44.144N	113.979W	11.56	5.1	2.64	10	82	0.06	1.12	30.	0.79	-60.	0.50	A
289	831109	2245 18.87	44.269N	114.120W	8.92	3.2	2.60	29	132	0.15	1.78	-70.	0.93	-20.	0.56	A
290	831109	2300 43.19	43.894N	113.753W	12.95	7.0	3.03	29	186	0.13	2.11	-1.	1.53	-91.	0.67	A
291	831109	2313 56.68	44.032N	113.874W	11.93	11.3	2.27	11	96	0.05	0.96	-130.	0.52	-40.	0.27	A

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	2	3	4	5	6	7	8	9	10	11
								NO	GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA	
292	831109	2316 09.04	44.266N	114.103W	6.26	3.5	2.66	12	128	0.09	1.16	-57.	1.03	33.	0.63	A	
293	831110	0034 19.92	44.221N	114.082W	5.32	6.2	2.84	28	87	0.16	1.21	-119.	0.81	-29.	0.59	A	
294	831110	0046 58.21	44.205N	114.001W	6.87	4.2	2.58	11	105	0.09	0.64	41.	0.89	-49.	0.54	A	
295	831110	0157 57.31	44.093N	113.894W	9.47	5.6	1.88	17	65	0.10	1.54	-112.	0.66	-22.	0.42	A	
296	831110	0303 04.59	44.069N	113.879W	7.84	7.2	2.22	18	69	0.10	1.89	-113.	0.54	-23.	0.42	A	
297	831110	0349 38.01	44.253N	114.082W	7.11	4.9	3.02	32	89	0.13	1.13	-69.	0.56	21.	0.52	A	
298	831110	0447 33.56	44.218N	114.047W	8.48	8.1	2.67	12	100	0.06	1.26	9.	0.49	-81.	0.87	A	
299	831110	0548 40.48	43.844N	113.643W	11.81	3.5	2.22	16	273	0.10	1.05	-10.	1.92	-100.	1.01	A	
300	831110	0735 35.66	44.300N	114.044W	9.46	1.6	2.48	18	81	0.12	1.70	-98.	1.00	-8.	0.73	A	
301	831110	0754 56.41	44.236N	114.022W	8.29	2.1	2.11	17	127	0.11	1.47	36.	1.00	-54.	0.55	A	
302	831110	0852 38.56	44.341N	114.023W	8.84	5.6	3.13	31	87	0.14	1.47	-39.	0.70	-129.	0.64	A	
303	831110	1143 00.68	44.285N	114.363W	0.70	17.6	2.33	14	271	0.18	8.93	-75.	4.58	15.	1.51	C	
04	831110	1325 51.07	44.199N	114.001W	10.60	3.9	2.55	12	102	0.09	1.81	-128.	0.85	-38.	0.48	A	
305	831110	1418 05.66	44.170N	113.983W	12.62	3.0	2.32	11	77	0.06	1.41	42.	0.71	-48.	0.40	A	
306	831110	1806 10.19	43.927N	113.800W	12.56	1.9	2.22	14	170	0.10	1.27	20.	1.31	-70.	0.73	A	
	831110	1811 57.81	44.269N	114.086W	5.72	5.4	—	13	117	0.13	1.44	-87.	0.98	3.	0.85	A	
308	831110	1840 31.45	44.104N	113.915W	9.04	6.2	2.31	18	70	0.12	1.57	-128.	0.71	-38.	0.48	A	
309	831110	2335 36.95	44.139N	113.962W	12.26	5.3	3.20	28	79	0.12	1.32	-110.	0.56	-20.	0.41	A	
310	831110	2350 41.43	44.238N	114.013W	6.22	7.3	2.77	12	120	0.07	0.77	17.	0.53	-73.	0.42	A	
311	831111	0315 24.22	44.210N	114.033W	10.28	3.3	2.68	29	70	0.14	1.22	-121.	0.74	-31.	0.50	A	
312	831111	0318 11.76	44.165N	113.994W	10.72	2.7	2.60	31	81	0.17	1.79	-133.	0.79	-43.	0.57	A	
313	831111	0508 48.14	44.168N	113.994W	10.58	2.4	3.06	31	80	0.11	1.16	-127.	0.51	-37.	0.37	A	
	831111	0544 25.88	44.229N	114.425W	7.12	13.2	—	20	279	0.19	11.83	-97.	3.82	-7.	1.67	D	
314	831111	0603 56.01	44.252N	114.475W	7.76	23.4	2.56	19	286	0.10	18.57	-96.	1.61	-6.	0.76	D	
315	831111	0751 07.06	44.289N	114.078W	7.22	2.9	2.57	30	64	0.12	1.00	-106.	0.63	-16.	0.55	A	
316	831111	0925 08.66	44.237N	114.053W	8.96	8.2	2.21	11	106	0.04	1.08	28.	0.46	-62.	0.33	A	
317	831111	0955 48.29	44.185N	114.000W	9.16	3.6	2.33	11	94	0.06	1.30	-118.	0.54	-28.	0.42	A	
318	831111	1032 54.40	44.209N	114.045W	4.95	7.6	2.32	11	97	0.13	1.94	-125.	1.18	-35.	0.82	A	
319	831111	1413 58.19	44.211N	113.962W	4.71	2.7	1.39	8	119	0.04	0.66	22.	0.46	-68.	0.32	A	
321	831111	1652 14.78	44.112N	113.885W	0.00	19.9	1.95	4	145	0.14	99.00	41.	2.84	-49.	2.01	D	
320	831111	1655 34.47	44.228N	114.096W	4.89	6.7	2.43	27	98	0.16	1.31	-119.	0.69	-29.	0.59	A	
322	831111	1922 55.78	44.244N	114.049W	10.20	7.8	2.17	9	110	0.05	0.90	-135.	0.60	-45.	0.39	A	
323	831111	2031 01.13	44.237N	114.038W	8.74	8.7	2.31	11	135	0.05	0.89	-125.	0.77	-35.	0.38	A	
324	831111	2250 47.94	44.101N	113.916W	10.33	5.5	3.08	30	66	0.15	1.67	-132.	0.71	-42.	0.48	A	
325	831111	2259 37.92	44.077N	113.913W	9.49	9.3	2.37	13	89	0.08	1.40	-123.	0.63	-33.	0.49	A	
	831112	0022 08.23	44.283N	114.063W	7.06	2.8	—	18	110	0.16	1.33	-119.	1.21	-29.	0.90	A	
327	831112	0246 32.20	43.946N	113.781W	11.62	2.3	2.87	31	177	0.16	2.22	4.	1.33	-86.	0.73	A	
328	831112	0337 54.94	44.167N	113.930W	7.39	3.0	2.53	29	52	0.13	0.94	-128.	0.58	-38.	0.44	A	
329	831112	0350 32.43	44.542N	113.944W	3.77	17.8	2.54	23	287	0.21	2.89	6.	8.61	-84.	1.94	C	
330	831112	0510 10.64	44.179N	114.024W	10.84	1.7	2.75	30	82	0.12	0.99	-134.	0.52	-44.	0.44	A	
331	831112	0525 32.45	44.129N	113.962W	11.76	6.4	1.77	12	69	0.03	0.34	-114.	0.25	-24.	0.19	A	
332	831112	0554 05.12	44.288N	114.098W	8.00	1.5	2.50	30	80	0.12	1.21	-58.	0.64	32.	0.49	A	
334	831112	0850 57.28	44.213N	114.032W	11.12	6.8	2.77	12	102	0.06	1.03	-110.	0.59	-20.	0.37	A	
335	831112	1051 00.10	44.163N	113.993W	9.92	4.0	2.17	10	77	0.07	1.49	-126.	0.70	-36.	0.52	A	
336	831112	1123 42.56	44.176N	113.926W	6.31	2.6	2.43	25	51	0.15	0.77	-131.	0.73	-41.	0.52	A	
337	831112	1239 37.14	44.233N	114.079W	8.18	7.6	2.49	12	102	0.11	1.99	-116.	0.93	-26.	0.68	A	
	831112	1403 29.04	44.237N	114.048W	8.75	1.9	—	18	94	0.11	0.95	-115.	0.80	-25.	0.65	A	
338	831112	1731 23.24	44.233N	114.065W	7.72	4.3	2.12	14	92	0.14	2.06	-98.	1.14	-8.	0.69	A	
339	831112	2032 36.92	44.320N	114.047W	5.16	5.8	2.61	28	93	0.17	1.20	-78.	0.76	12.	0.62	A	
342	831112	2215 25.03	44.165N	113.955W	11.31	2.4	2.34	12	67	0.05	0.57	-118.	0.43	-28.	0.35	A	
340	831112	2232 12.36	43.937N	113.739W	7.47	5.6	1.38	11	199	0.06	1.60	-2.	1.12	-92.	0.49	A	

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	1	2	3	4	5	6	7	8	9	10	11
								MAG (Md)	NO	GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA
341	831112	2232 27.49	44.172N	114.020W	11.67	2.1	2.68	30	84	0.14	1.36	-127.	0.76	-37.	0.49	A	
343	831112	2305 48.00	44.233N	114.048W	8.24	2.3	2.56	29	69	0.14	1.00	21.	0.60	-69.	0.52	A	
344	831113	0420 23.52	44.244N	114.048W	6.60	7.8	2.31	10	110	0.07	0.87	-125.	0.66	-35.	0.57	A	
	831113	0615 35.06	44.213N	114.064W	8.65	5.4		14	91	0.06	1.03	-123.	0.46	-33.	0.41	A	
345	831113	0704 17.10	44.149N	113.933W	7.49	4.6	2.77	27	50	0.17	1.33	-118.	0.73	-28.	0.56	A	
346	831113	0826 04.79	44.075N	113.852W	4.92	6.1	2.20	17	110	0.14	1.39	-80.	0.83	10.	0.68	A	
347	831113	0956 08.26	44.042N	113.876W	9.92	12.4	2.07	12	95	0.05	1.11	-131.	0.47	-41.	0.27	A	
348	831113	1013 14.29	44.037N	113.878W	8.11	10.5	2.32	17	94	0.09	1.79	35.	0.58	-55.	0.35	A	
349	831113	1133 22.30	44.149N	113.923W	5.43	5.0	2.17	14	66	0.16	1.84	-127.	1.08	-37.	0.80	A	
350	831113	1201 16.95	44.052N	113.939W	12.36	3.7	2.99	28	68	0.12	1.45	-127.	0.69	-37.	0.50	A	
351	831113	1320 52.47	44.268N	114.112W	8.07	3.3	2.56	12	143	0.05	0.85	-58.	0.65	32.	0.36	A	
	831113	1523 07.78	44.344N	114.020W	5.71	9.9		13	142	0.10	1.19	31.	1.12	-59.	0.75	A	
352	831113	1525 07.73	44.345N	114.011W	4.85	7.2	2.87	12	169	0.07	0.90	31.	0.68	-59.	0.53	A	
353	831113	2238 07.48	44.097N	113.931W	9.75	6.2	2.71	26	50	0.10	1.06	-89.	0.46	1.	0.35	A	
	831113	2306 15.68	44.254N	114.123W	6.84	8.2		13	127	0.13	1.25	-22.	1.11	-112.	0.98	A	
354	831114	0101 04.74	44.172N	113.936W	6.28	2.3	2.21	11	77	0.06	0.51	-106.	0.53	-16.	0.41	A	
355	831114	0211 01.90	44.029N	113.835W	5.71	9.9	2.02	12	103	0.05	0.65	39.	0.44	-51.	0.30	A	
356	831114	0353 55.93	44.233N	114.049W	9.23	3.4	2.16	19	81	0.10	1.07	-109.	0.64	-19.	0.45	A	
357	831114	0448 39.99	44.317N	114.103W	5.68	2.4	2.65	27	137	0.13	0.78	-65.	0.66	25.	0.53	A	
358	831114	0535 53.40	44.308N	114.363W	7.57	19.4	2.46	15	274	0.11	13.79	-68.	2.81	22.	0.84	D	
359	831114	0901 05.28	44.410N	114.082W	5.51	2.3	2.66	12	269	0.09	0.72	-39.	1.87	-129.	0.90	A	
360	831114	1225 48.41	44.022N	113.879W	8.71	10.5	2.27	14	104	0.07	1.89	41.	0.66	-49.	0.45	A	
361	831114	1236 51.49	44.109N	113.891W	6.51	10.1	2.32	10	102	0.04	0.51	-106.	0.36	-16.	0.27	A	
362	831114	1333 51.59	44.080N	113.938W	12.46	7.3	2.42	12	81	0.07	0.98	-111.	0.65	-21.	0.47	A	
363	831114	1535 53.61	44.040N	113.920W	9.69	10.2	2.13	12	98	0.06	1.93	25.	0.65	-65.	0.36	A	
364	831114	1626 56.22	44.404N	114.076W	5.16	1.7	2.84	25	130	0.15	1.05	-12.	1.09	-102.	0.90	A	
365	831114	1906 15.37	44.268N	114.047W	9.78	2.6	2.68	16	71	0.11	1.41	-50.	0.75	40.	0.63	A	
366	831115	0046 03.90	44.207N	113.937W	5.28	2.6	2.31	10	111	0.07	1.54	-119.	0.70	-29.	0.47	A	
367	831115	0413 17.24	44.243N	114.028W	7.72	1.4	2.35	16	69	0.09	1.27	29.	0.66	-61.	0.46	A	
368	831115	0643 26.71	43.826N	113.650W	12.15	18.2	2.40	15	300	0.08	2.01	-25.	2.08	-115.	0.90	A	
369	831115	0810 51.49	44.128N	113.938W	11.03	6.6	2.83	27	47	0.13	1.31	-112.	0.74	-22.	0.50	A	
370	831115	0955 49.15	44.299N	114.375W	9.42	14.8	2.74	27	274	0.15	3.49	-78.	2.79	12.	1.00	B	
371	831115	1247 06.16	44.146N	113.920W	8.02	5.4	2.73	11	81	0.07	1.15	-94.	0.54	-4.	0.43	A	
372	831115	1303 01.33	44.172N	113.996W	9.20	2.0	2.67	27	77	0.12	1.35	-132.	0.54	-42.	0.43	A	
	831115	1327 05.75	44.434N	114.090W	10.39	2.3		13	275	0.10	3.45	-10.	3.75	-100.	1.26	B	
373	831115	1558 01.00	44.269N	114.106W	8.31	3.2	2.44	12	134	0.06	1.05	-55.	0.78	35.	0.42	A	
374	831115	1616 27.44	44.232N	114.047W	6.69	8.9	2.69	11	80	0.07	0.82	-101.	0.68	-11.	0.43	A	
375	831115	1952 15.05	44.181N	114.006W	12.15	4.1	2.64	12	78	0.07	1.00	-99.	0.53	-9.	0.43	A	
376	831115	2113 36.42	44.101N	113.904W	8.15	10.1	2.33	12	95	0.06	1.25	-114.	0.56	-24.	0.32	A	
377	831115	2137 13.92	44.222N	114.045W	8.72	8.2	2.43	11	79	0.07	1.64	37.	0.60	-53.	0.47	A	
378	831115	2149 20.55	44.207N	114.052W	8.23	4.2	2.94	27	74	0.11	1.17	-113.	0.54	-23.	0.39	A	
379	831115	2334 09.07	44.143N	113.976W	11.66	5.2	2.54	12	68	0.07	1.21	-121.	0.55	-31.	0.40	A	
380	831116	0251 05.13	43.901N	113.691W	11.33	10.5	2.41	11	275	0.04	1.20	-19.	1.07	-109.	0.60	A	
381	831116	0419 15.07	43.923N	113.790W	10.42	2.6	2.17	11	239	0.07	1.68	-4.	1.48	-94.	0.60	A	
382	831116	0455 31.35	44.246N	114.050W	8.26	2.6	3.04	27	68	0.08	0.86	9.	0.39	-81.	0.34	A	
383	831116	0558 05.23	44.347N	114.170W	9.23	7.2	2.39	12	228	0.11	2.69	-55.	2.62	35.	0.92	B	
384	831116	0950 35.03	44.183N	113.945W	6.48	0.9	2.62	26	59	0.16	0.97	-135.	0.75	-45.	0.51	A	
	831116	1002 24.11	44.073N	113.955W	11.55	6.0		14	79	0.15	4.11	-45.	1.52	-135.	1.18	B	
386	831116	1644 29.32	44.394N	114.083W	4.27	2.5	3.07	23	214	0.15	1.15	-5.	1.46	-95.	0.97	A	
387	831116	1908 48.24	44.212N	114.043W	9.58	7.6	2.53	12	76	0.07	1.04	-105.	0.59	-15.	0.42	A	
388	831116	1959 28.41	44.241N	114.045W	9.34	8.3	2.68	11	79	0.07	1.76	-96.	0.72	-6.	0.53	A	

EQ NO	DATE (YMD)	ORGN TIME (UTC)	LAT (deg)	LONG (deg)	DEPTH (km)	DMIN (km)	MAG (Md)	2	3	4	5	6	7	8	9	10	11
								MAG (Md)	NO	GAP (deg)	RMS (sec)	ERZ (km)	AZ1 (deg)	ERH1 (km)	AZ2 (deg)	ERH2 (km)	QUA
389	831116	2132 18.68	43.964N	113.814W	10.27	2.4	2.96	26	105	0.13	2.34	-19.	1.45	-109.	0.72	A	
889	831117	0117 05.50	44.172N	113.974W	10.63	2.2	2.52	13	67	0.05	0.54	-95.	0.39	-5.	0.31	A	
390	831117	0234 14.68	44.484N	114.122W	3.69	10.5	2.72	14	269	0.10	1.52	-45.	2.43	45.	0.93	A	
391	831117	0312 08.79	44.265N	114.038W	8.70	1.8	2.56	17	67	0.09	1.06	-111.	0.65	-21.	0.51	A	
392	831117	0338 33.18	44.138N	113.949W	10.86	5.5	2.48	12	68	0.05	0.70	-98.	0.36	-8.	0.30	A	
393	831117	0806 40.66	44.153N	113.984W	12.20	4.3	2.95	29	73	0.16	1.48	-98.	0.81	-8.	0.56	A	
394	831117	0824 57.66	44.011N	113.911W	12.79	11.2	2.43	11	121	0.05	1.92	30.	0.74	-60.	0.43	A	
395	831117	0903 21.35	44.272N	113.750W	0.72	8.8	2.25	15	194	0.13	99.00	-114.	1.52	-24.	0.81	D	
895	831117	0909 58.90	44.239N	114.062W	8.52	7.6	2.71	13	89	0.05	0.92	-109.	0.41	-19.	0.31	A	
397	831117	1139 18.89	44.248N	114.058W	8.17	7.0	2.02	10	85	0.06	1.66	-90.	0.58	0.	0.44	A	
398	831117	1151 47.38	44.228N	114.030W	11.77	3.1	3.06	29	63	0.17	1.90	-117.	0.86	-27.	0.68	A	
399	831117	1228 10.66	44.435N	114.086W	7.21	4.4	2.22	11	307	0.14	2.03	-11.	6.23	-101.	2.34	C	
400	831117	1321 42.86	44.410N	113.994W	7.50	4.9	3.05	28	148	0.15	2.55	-10.	1.49	-100.	0.86	B	
401	831117	1437 23.58	44.328N	114.115W	10.80	3.4	2.19	17	164	0.09	0.96	-65.	0.93	25.	0.51	A	
901	831117	1759 11.84	44.225N	114.053W	9.70	8.9	2.50	13	83	0.07	1.48	-54.	0.57	36.	0.48	A	
402	831117	1838 16.45	43.897N	113.780W	12.91	5.5	2.55	13	254	0.11	2.39	-2.	2.20	-92.	1.19	A	
403	831117	1953 13.27	44.243N	114.027W	8.43	7.8	2.65	9	90	0.06	1.68	-109.	0.72	-19.	0.46	A	
404	831117	2242 55.28	44.305N	114.056W	10.42	4.6	2.35	12	101	0.08	1.37	-42.	0.96	-132.	0.63	A	
405	831117	2327 23.93	44.193N	114.311W	10.27	3.4	2.87	26	247	0.08	1.05	-98.	1.52	-8.	0.46	A	
406	831118	0006 19.36	44.333N	114.029W	7.35	6.8	2.55	16	88	0.09	1.36	-87.	0.70	3.	0.53	A	
407	831118	0230 31.84	44.283N	114.072W	7.14	3.6	2.68	12	75	0.07	0.99	-80.	0.62	10.	0.56	A	
408	831118	0231 40.09	44.245N	114.049W	7.16	2.5	2.74	27	80	0.21	1.77	-114.	1.04	-24.	0.66	A	
409	831118	0506 22.19	44.168N	113.983W	10.81	3.1	2.69	12	72	0.05	0.71	-89.	0.38	1.	0.32	A	
410	831118	0648 14.82	43.921N	113.801W	10.55	2.4	2.16	15	238	0.12	2.49	-9.	1.91	-99.	0.99	A	
411	831118	0959 23.51	44.275N	114.056W	8.02	5.2	2.63	11	73	0.06	1.09	-36.	0.57	-126.	0.52	A	
412	831118	1103 06.40	44.175N	114.013W	11.11	4.8	2.37	11	81	0.05	1.09	-122.	0.46	-32.	0.38	A	
413	831118	1123 24.78	44.268N	114.112W	7.80	3.2	3.03	28	103	0.11	1.29	-100.	0.53	-10.	0.36	A	
414	831118	1210 01.80	44.299N	114.356W	6.49	18.2	2.42	17	252	0.12	1.04	-76.	1.56	14.	0.76	A	
415	831118	1258 55.30	44.114N	113.893W	8.90	9.5	2.37	11	101	0.08	1.46	-115.	0.75	-25.	0.51	A	
416	831118	1306 12.85	43.902N	113.774W	12.56	5.3	2.17	9	253	0.02	0.33	-14.	0.63	-104.	0.29	A	
418	831118	1716 03.41	44.327N	114.058W	7.82	4.6	2.76	22	83	0.10	1.30	-108.	0.65	-18.	0.46	A	
417	831118	1721 21.30	44.133N	113.955W	11.11	5.9	2.54	11	96	0.06	0.73	-93.	0.59	-3.	0.38	A	
419	831118	1855 42.19	44.252N	114.046W	8.73	2.0	3.43	22	67	0.08	0.94	-112.	0.54	-22.	0.29	A	
420	831119	0012 47.06	44.123N	113.927W	9.63	7.4	2.32	10	83	0.05	0.95	-100.	0.50	-10.	0.34	A	
421	831119	0034 05.18	44.149N	113.980W	11.23	4.7	2.73	16	118	0.08	1.16	-114.	0.70	-24.	0.36	A	
422	831119	0059 16.27	44.589N	114.238W	7.82	17.3	2.77	16	306	0.11	7.37	-34.	10.55	-124.	1.89	D	
423	831119	0148 29.28	44.083N	113.901W	10.66	10.2	2.48	10	95	0.05	1.67	-118.	0.61	-28.	0.36	A	
424	831119	0202 16.29	44.043N	113.930W	11.73	9.3	2.39	12	96	0.06	1.92	-131.	0.79	-41.	0.41	A	
425	831119	0459 17.83	44.249N	114.059W	7.89	6.8	2.52	11	141	0.05	0.99	-109.	0.59	-19.	0.28	A	
426	831119	0556 11.62	43.866N	113.767W	16.69	9.1	2.04	6	270	0.07	9.87	-20.	10.05	-110.	2.19	D	
427	831119	0914 04.75	44.149N	113.994W	11.53	5.3	2.96	15	128	0.09	1.61	-109.	0.94	-19.	0.50	A	
428	831119	0919 40.11	44.367N	113.991W	10.52	6.4	2.37	13	105	0.08	1.52	-80.	0.95	10.	0.63	A	
429	831119	1025 02.99	43.915N	113.663W	3.43	10.4	2.06	9	282	0.13	2.63	-40.	8.15	-130.	1.76	C	
430	831119	1117 34.44	44.206N	114.034W	10.70	6.6	3.09	15	143	0.10	1.51	-107.	0.98	-17.	0.48	A	
431	831119	1148 42.67	44.242N	114.061W	8.53	3.5	3.47	16	146	0.10	1.41	-108.	1.06	-18.	0.48	A	
432	831119	1403 38.56	43.957N	113.798W	2.20	1.9	2.34	10	147	0.08	2.03	-7.	1.29	-97.	0.81	A	
* * AVERAGES * *																	
					8.29	6.0	2.75	17.5	98.	0.12	3.58	-77.	2.17	-31.	1.04		

No. of rows is 402.

No. of GAP values (<=180) indicating location inside net:303; GAP values outside net: 99.
Average GAP for inside locations only.

- 1 —Distance to closest seismograph station
- 2 —Local magnitude estimate based on duration (coda length) of earthquake (Lee, et al., 1972).
- 3 —Number of observation (P and S) used to compute hypocentral solution.
- 4 —Largest azimuthal separation in degrees between stations as viewed from the epicenter.
- 5 —Root mean square errors of travel time residuals.
- 6-10 —Error estimates based on 94% confidence ellipsoid (see Lahr, 1979, pp31-32).
- 11 —Hypocentral quality of each solution determined by the largest of 3 distances: (1) and (2) are the resulting horizontal lengths and azimuths of the elliptical shadow of the error ellipse projected to the earth's surface, (3) the greatest vertical deviation of the ellipsoid from the hypocenter (Lahr, 1980, p. 31).

Quality	Axis Length, 'AL' (km)
A	< 2.5
B	2.5 < AL < 5.0
C	5.0 < AL < 10.0
D	AL > 10.0

APPENDIX B.-HYPOELLIPSE LOCATIONS

The computer program HYPOELLIPSE (Lahr, 1979) was used to locate 402 after-shocks using a layered velocity model (see Table 1). The events, which occurred between October 29 and November 19, 1983, are presented in chronologic order.

03/10/29 17/37 BEGIN-----BEGIN-----03/10/29 17/37

HORIZONTAL SE = 0.99 SE = 2.35 VERTICAL SE = 2.35
AZ = -18. AZ = -108. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVIM SOXM MF AVFM SOFM
#31029 1737 41.19 44M 3.86 113M52.53 7.02 3.59 12 3 111 1 0.16 2.4 2.4 0 810 0.06 10 42 0.00 0.12 0 0.0 0.0 7 3.6 0.4
SE OF DRIG = 0.144 5 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)
SYM DIST AIM AIM PSEC PRNK+TCOR-DATON-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTCL S-RES S-WT ANX PR XHAG R FMP FMAG
M-1 1.1 59 170 42.82 PC0 1.43 1.30 0.30 -0.18 1.053 0.00-41.19 2.28-44.00 0.000 51
B37 2.7 270 156 42.36 IPC 1.17 1.38 -0.22 1.053 43.57 2.38 2.42 -0.04 0.737 51
B5U1 3.5 245 150 43.00 PC0 1.01 1.44 0.37 1.053 0.00-41.19 2.51-43.71 0.000 51
M-2 11.0 2 110 43.70 PC0 2.51 2.37 0.17 -0.04 1.053 0.00-41.19 4.15-45.64 0.000 51
B39 11.1 2 109 43.61 EPC 2.42 2.39 0.03 1.053 45.61 4.42 4.18 0.23 0.737 51
WSU1 17.8 343 90 44.55 PC0 3.36 3.47 -0.12 1.053 0.00-41.19 6.08-47.27 0.000 51
B10 25.1 138 90 45.00 IP 4 3.01 4.66 -0.86 0.000 51 120 3.4
B8 28.5 145 90 45.57 IP04 4.30 5.21 -0.83 0.000 51 145 3.6
MPI 73.7 122 90 53.70 P00 12.51 12.56 -0.05 1.053 0.00-41.19 21.97-63.17 0.000 51 72 3.2
BPM 95.3 29 90 57.20 PC0 16.01 16.06 -0.05 1.053 0.00-41.19 20.10-69.30 0.000 51
JCI 96.0 88 90 57.44 P00 16.25 16.17 0.07 1.053 0.00-41.19 20.31-69.50 0.000 51 80 3.3
C15 105.3 134 90 50.93 P00 17.74 17.60 0.05 1.053 0.00-41.19 30.95-72.14 0.000 51 86 3.4
GB1 145.6 93 65 5.13 PC0 23.94 23.69 0.2500-0.00 0.00 18.81 41.45-22.64 0.000 51
T10 177.1 249 65 9.99 P00 28.80 28.31 -0.4800-0.00 24.32 43.13 50.02 -6.89 0.000 51 106 3.9
TMI 178.9 110 65 9.61 PC0 28.42 28.50 -0.1700-0.00 0.00 18.01 51.07-32.27 0.000 51
KCI 183.0 104 65 10.70 P 29.51 29.18 0.3200-0.00 0.00 18.01 52.10-33.30 0.000 51 180 4.3
CM1 107.0 74 65 11.00 P00 30.61 29.77 0.83M0-0.00 0.00 18.81 54.34-35.54 0.000 51
CPI 195.7 264 65 11.69 PC0 30.50 31.95 -0.56M0-0.00 0.00 18.81 60.90-42.10 0.000 51
LRM 225.4 30 50 15.60 PC0 34.41 34.80 -8.40D0-0.00 0.00 18.81 63.27-44.46 0.000 51
IMW 236.3 95 50 18.26 P 37.07 36.15 0.91M0-0.00 0.00 18.81 64.07-45.27 0.000 51
MPI 239.9 153 50 18.93 P 37.74 36.61 1.12M0-0.00 0.00 18.81 65.67-46.06 0.000 51
MPI 247.2 250 50 18.59 P00 37.40 37.52 -0.1300-0.00

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH MW SW M SE E Z NE
AVE. OF END POINTS -0.06 -0.03 0.02 0.04 0.06 0.07 0.10

NUMBER 7
RMS MIN RMS AVE RMS QUALITY
0.16 -0.15 0.02 0

83/10/29 17/41 -----BEGIN-----BEGIN-----83/10/29 17/41

HORIZONTAL SE = 2.41 VERTICAL SE = 0.97 QUALITY = A
AZ = -8. AZ = -98.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SDIM MF AVFM SDFM
831029 1741 20.47 44N 6.70 113M50.39 11.16 3.40 11 9 238 1 0.11 2.4 1.0 0 C10 0.86 10 42 0.00 0.09 0 0.0 0.0 6 3.4 0.3
SE OF ORIG = 0.148 0 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIN PSEC PRMK+TCOR-O-TTOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOB TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
037 5.3 107 152 22.34IP 2.07 2.17 -0.10 1.058 24.32 3.85 3.80 0.06 0.740 62 3.1
85U1 5.6 123 151 22.80 PCO 2.33 2.19 0.14 1.058 0.00-20.47 3.83-24.30 0.000 68 3.2
8RPI 6.7 165 146 17.70 PCO -2.77 2.29 -5.05M0.000 0.00-20.47 4.08-24.47 0.000 72 3.3
M-1 8.8 96 138 23.03 PCO 2.56 2.50 0.30 -0.24 1.058 0.00-20.47 4.31-25.36 0.000 67 3.4
M-2 12.5 41 120 23.60 PCO 3.13 2.92 0.17 0.04 1.058 0.00-20.47 5.11-25.08 0.000 67 3.5
839 12.6 41 127 23.48IP 3.01 2.93 0.08 1.058 25.67 5.20 5.13 0.07 0.740 100 3.9
85U1 15.8 10 120 23.77 PCO 3.30 3.37 -0.07 1.058 0.00-20.47 5.90-26.37 0.000
810 31.8 130 102 25.57IPD 5.10 5.02 -0.71M0.000
882 34.7 135 101 25.02IPD4 5.35 6.29 -0.93 0.000
8PI 81.3 120 94 34.23 P00 13.76 13.79 -0.03 1.058
JGI 103.8 89 65 37.88 P 0 17.21 17.26 -0.04 1.058
C18 112.1 132 65 39.06 P00 18.59 18.60 0.12 1.058
G81 153.5 94 65 45.20 PCO 24.81 24.57 0.25D0.000
T10 170.3 248 65 40.44 PCO 27.97 27.84 0.94M0.000
T11 186.6 117 65 49.57 P 0 29.10 29.63 -0.32C0.000
CPI 188.1 263 65 49.99 PCO 29.52 29.65 -0.13D0.000
KCI 191.0 104 50 50.70 P 0 30.23 30.07 0.17C0.000
CMI 194.1 75 50 51.60 P 0 31.13 30.46 0.68M0.000
LHM 228.0 32 50 54.80 P 0 34.33 34.69 -0.36D0.000
WPI 240.4 249 50 57.59 PCO 37.12 36.24 1.68M0.000
LHM 244.2 95 50 58.63 P 0 38.16 36.72 1.45M0.000
MCM 347.9 352 50 10.30 P 0 49.83 49.80 0.16D0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW M NM E NE SE
AVE. OF END POINTS 0.00 0.06 0.09 0.10 0.15 0.16 0.16
NUMBER RMS MIN ORMS AVE ORMS QUALITY
0.11 -0.06 0.11 0

83/10/29 19/23 BEGIN-----BEGIN-----83/10/29 19/23

HORIZONTAL
SE = 0.95
AZ = -13.
VERTICAL
SE = 1.57
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVIM SDM NF AVFM SDFM
831029 1923 24.52 4N 3.08 113W55.31 7.09 3.44 16 5 142 1 0.20 2.1 1.6 C 81C 0.08 10 52 0.00 0.16 0 0.0 0.0 7 3.4 0.4
SE OF ORIG = 0.120 6 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
SYN DIST AZM AIM PSEC PRMK*TCOR-D=TTDB-TTCAL-DELY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
337 1.0 71 172 26.03PD 1.51 1.44 0.07 1.039 27.25 2.73 2.52 0.21 0.727 53
ASU1 1.3 153 170 26.85 PD 2.33 1.45 0.89M0.000 0.00-24.52 2.53-27.05 0.000 53
M-1 4.8 79 145 26.33 PD 1.81 1.67 0.30 -0.15 1.039 0.00-24.52 2.92-27.96 0.000 53
SRP1 5.2 208 142 26.30 PC0 1.78 1.71 0.07 1.039 0.00-24.52 3.00-27.52 0.000 53
MBA1 9.7 39 121 26.50 P 0 1.98 2.26 -0.27 1.039 28.40 3.88 3.95 -0.06 0.000 53
839 12.1 20 113 27.22IPC 2.70 2.60 0.10 1.039 29.25 4.73 4.56 0.18 0.727 53
816 14.2 349 108 27.51IP 2.99 2.91 0.08 1.039 0.00-24.52 6.00-30.51 0.000 53
811 16.1 146 104 27.74IP 3.22 3.21 0.01 1.039 92.55 68.03 8.84 59.20 0.000 53
83 17.5 355 101 27.79IPC 3.27 3.43 -0.15 1.039 0.00-24.52 22.83-47.35 0.000 53
WSU1 17.5 355 101 27.67 PC0 3.15 3.43 -0.27 1.039 0.00-24.52 28.71-53.22 0.000 53
810 27.5 132 94 29.21IP 4.69 5.05 -0.36 1.039 0.00-24.52 29.36-53.88 0.000 53
88 30.5 139 93 29.39IPC 4.87 5.54 -0.67M0.000 54.34 29.82 31.62 -1.79 0.000 53
MPI 76.8 120 91 37.40 P 0 13.08 13.05 0.04 1.039 0.00-24.52 42.30-66.81 0.000 53
8PH 97.4 30 91 41.20 PC0 16.68 16.40 0.28 1.039 0.00-24.52 48.52-73.03 0.000 53
JGI 99.8 88 91 41.25 PD 16.73 16.78 -0.05 1.039 0.00-24.52 50.72-75.24 0.000 53
C18 107.8 133 65 42.90 PC0 18.38 18.07 0.32 1.039 0.00-24.52 51.88-76.40 0.000 53
GBI 149.3 93 65 48.85 P 0 24.33 24.17 0.17C0.000 0.00-24.52 52.94-77.45 0.000 53
TIO 173.5 249 65 53.49 P 0 28.97 27.72 1.23P0.000 0.00-24.52 53.28-77.79 0.000 53
TMI 182.0 117 65 53.39 PD 28.87 28.99 -0.11D0.000 0.00-24.52 53.28-77.79 0.000 53
KCI 186.5 104 65 54.60 P 0 30.08 29.65 0.44D0.000 0.00-24.52 53.28-77.79 0.000 53
CMI 190.7 74 65 55.60 P 0 31.08 30.25 0.63M0.000 0.00-24.52 53.28-77.79 0.000 53
CPI 192.0 264 65 55.59 P 0 31.07 30.44 -0.39D0.000 0.00-24.52 53.28-77.79 0.000 53
LRM 227.6 31 50 59.10 PC0 34.58 34.98 0.91M0.000 0.00-24.52 53.28-77.79 0.000 53
IMW 239.9 94 50 1.95 P 0 37.43 36.53 0.91M0.000 0.00-24.52 53.28-77.79 0.000 53
MPI 241.4 152 50 3.19 P 0 38.67 36.71 1.97M0.000 0.00-24.52 53.28-77.79 0.000 53
WPI 243.6 249 50 2.69 PD 38.17 36.98 1.19M0.000 0.00-24.52 53.28-77.79 0.000 53
MLI 269.3 147 50 6.54 P 0 42.02 40.20 1.82M0.000 0.00-24.52 53.28-77.79 0.000 53
NCM 350.3 352 50 14.60 P 0 50.08 50.32 -0.23C0.000 0.00-24.52 53.28-77.79 0.000 53

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SW SE Z NE E NW
AVE. OF END POINTS -0.01 0.01 0.09 0.09 0.09 0.14 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.20 -0.10 0.08 0

83/10/29 19/48 -----BEGIN-----BEGIN-----83/10/29 19/48

SE = 0.77 HORIZONTAL SE = 2.41 VERTICAL
 AZ = -34. AI = -124. SE = 1.55 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SDO ADJ IN MR AVR AAR MM AVXM SDOX MF AVFM SDFM
 831029 1948 13.42 43M57.82 113M50.46 6.76 3.64 10 18 174 1 0.11 2.4 1.6 C CIC 0.25 10 46 0.00 0.09 0 0.0 0.0 7 3.6 0.3
 SE OF ORIG = 0.122 11 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
 STN DIST AZM AIN PSEC PRMK-TCOR-0-TT08-TICAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TT08 TICAL S-RES S-WT AMX PR XMAG R PMP PMAG
 8RPT 10.9 305 121 16.05 P-3 2.63 2.33 0.30 0.075 0.00-13.42 4.08-17.50 0.000
 3SUI 11.4 329 119 17.20 P 0 3.78 2.41 1.37M0.000 0.00-13.42 4.22-17.64 0.000
 M-1 11.9 351 118 16.20 P 0 2.78 2.49 0.30 -0.01 1.203 0.00-13.42 4.35-18.30 0.000
 48A1 18.4 359 109 16.90 P 0 3.48 3.57 -0.09 1.203 0.00-13.42 6.24-19.66 0.000
 M-2 22.3 354 65 17.90 P00 4.48 4.22 0.17 -0.09 1.203 0.00-13.42 7.38-21.10 0.000
 W5UI 29.3 344 65 18.57 P72 5.15 5.36 -0.21 0.901 0.00-13.42 9.39-22.80 0.000
 NSUI 31.5 347 65 19.05 P+0 5.63 5.71 -0.08 1.203 0.00-13.42 10.00-23.41 0.000
 MPI 66.0 115 65 24.67 PC0 11.25 11.32 -0.07 1.203 31.82 18.40 19.81 -1.41 0.000 85 3.3
 JGI 94.5 81 65 29.26 PC0 15.84 15.94 -0.10 1.203 38.59 25.17 27.89 -2.72 0.000 87 3.4
 CIB 95.7 131 65 29.65 PC0 16.23 16.14 0.09 1.203 41.81 28.39 28.25 0.15 0.000 90 3.4
 8PM 104.1 24 65 31.10 PC0 17.68 17.50 0.18 1.203 0.00-13.42 30.63-44.03 0.000
 GBI 142.6 89 55 36.53 P00 23.11 23.27 -0.16M0.000 0.00-13.42 40.72-54.14 0.000
 TMI 171.6 115 55 40.26 P 0 26.84 27.54 -0.69M0.000 0.00-13.42 48.19-61.61 0.000
 TID 176.4 253 55 42.37 PC0 28.95 28.23 0.72M0.000 0.00-13.42 49.41-62.83 0.000
 KCI 178.2 101 55 42.00 P 0 28.58 28.50 0.08C0.000 0.00-13.42 49.88-63.30 0.000 140 4.1
 CMI 188.0 71 55 43.85 PC0 30.43 29.95 0.48M0.000 0.00-13.42 52.42-65.83 0.000
 CPI 197.9 267 44 45.57 PC0 32.15 31.39 0.76M0.000 0.00-13.42 54.93-68.35 0.000
 MPI 228.7 152 44 49.69 P 0 36.27 35.25 1.03M0.000 0.00-13.42 61.68-75.10 0.000
 IMW 233.3 92 44 49.62 P 0 36.20 35.81 0.39M0.000 0.00-13.42 62.67-76.09 0.000
 LRM 233.9 28 44 48.80 P 0 35.38 35.89 -0.51M0.000 0.00-13.42 62.81-76.23 0.000
 MPI 246.6 252 44 51.47 PC0 38.05 37.48 0.58M0.000 0.00-13.42 65.58-79.00 0.000
 MLI 256.6 147 44 53.10 P 0 39.68 38.74 0.93M0.000 0.00-13.42 67.79-81.21 0.000
 NCM 362.0 351 44 56.60 P 0 52.18 51.90 0.28M0.000 0.00 46.58 90.83-44.24 0.000 88 3.9

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NW E NE SE Z SW
 AVE. OF END POINTS 0.02 0.03 0.05 0.09 0.10 0.13 0.20

NUMBER RMS MIN ORMS AVE ORMS QUALITY
 6 0.11 -0.08 0.08 0

83/10/29 21/13 BEGIN 83/10/29 21/13
 BEGIN
 HORIZONTAL SE = 1.60 VERTICAL SE = 1.67 QUALITY = A
 SE = 0.75 AZ = -13.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR MM AVXM SDXM MF AVFM SOFM
 831029 2113 59.33 44M 113054.80 11.22 3.53 15 6 142 1 0.12 1.6 1.7 C 81C 0.30 10 53 0.00 0.11 0 0.0 0.0 5 3.5 0.4
 SE OF DRIG = 0.106 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
 STN DIST AZM AIN PSEC PRMK+TCOR-DTTOB-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 837 4.9 177 195 1.42IP 2.09 2.15 -0.06 1.020 2.65 3.32 3.76 -0.44M0.000
 M-1 5.9 137 150 1.80 P 0 2.47 2.22 0.30 -0.05 1.020 0.00 0.67 3.89 -3.74 0.000
 M8A1 5.9 67 150 1.45 P 0 2.12 2.23 -0.11 1.020 2.95 3.62 3.90 -0.28 0.000
 25U1 6.3 181 148 2.25 P00 2.92 2.26 0.66M0.000 0.00 0.67 3.96 -3.29 0.000
 M-2 6.9 29 146 2.00 PC0 2.67 2.32 0.17 0.18 1.020 0.00 0.67 4.05 -3.68 0.000
 839 7.1 28 145 1.80IP 2.47 2.33 0.14 1.020 3.35 4.02 4.07 -0.05 0.714
 816 9.4 339 137 1.71IP 2.38 2.56 -0.18 1.020 0.00 0.67 4.68 -4.01 0.000
 8RPI 10.3 198 134 2.16 P00 2.83 2.67 0.16 1.020 0.00 0.67 5.10 -4.43 0.000
 MSUI 12.4 350 128 2.07 PC0 2.74 2.91 -0.17 1.020 0.00 0.67 5.46 -4.79 0.000
 53 12.4 349 128 2.28IP 2.95 2.92 0.03 1.020 0.00 0.67 5.64 -4.97 0.000
 DSPI 13.9 28 124 2.52 P 0 3.19 3.12 0.07 1.020 0.00 0.67 5.46 -4.79 0.000
 MSUI 14.6 354 122 2.65 P 0 3.32 3.22 0.10 1.020 0.00 0.67 5.64 -4.97 0.000
 810 30.8 140 103 5.04IPC 5.71 5.66 0.05 1.020 0.00 0.67 5.64 -4.97 0.000
 88 34.2 145 101 5.98IP 6.25 6.21 0.04 1.020 0.00 0.67 5.64 -4.97 0.000
 87 41.1 138 99 6.75IP 7.42 7.31 -0.17 1.020 0.00 0.67 5.64 -4.97 0.000
 MPI 79.0 124 94 13.40 P00 14.07 13.42 0.65M0.000 0.00 0.67 23.48 -22.81 0.000
 8PM 92.6 32 65 15.80 PC0 16.47 15.60 0.87M0.000 0.00 0.67 27.30 -26.63 0.000
 JGI 99.0 91 65 16.60 PC0 17.27 16.55 0.72M0.000 0.00 0.67 28.96 -28.29 0.000
 C18 110.8 135 65 18.40 P00 19.47 18.28 1.19M0.000 0.00 0.67 32.00 -31.33 0.000
 G81 149.0 95 65 24.30 P00 24.97 23.90 1.07M0.000 0.00 0.67 41.82 -41.15 0.000
 T10 176.0 247 65 29.24 PC0 29.91 27.97 2.04M0.000 0.00 0.67 48.78 -48.11 0.000
 TMI 183.9 119 65 29.10 P00 29.77 29.03 0.74M0.000 51.40 52.07 50.80 1.27 0.000
 AC1 187.2 105 65 29.90 P 0 30.57 29.51 1.06M0.000 0.00 0.67 51.64 -50.97 0.000
 CMI 188.6 76 65 30.80 P 0 31.47 29.73 1.74M0.000 53.70 54.37 52.02 2.35 0.000
 CPI 193.3 262 50 30.79 PC0 31.46 30.35 1.11M0.000 0.00 0.67 53.11 -52.44 0.000
 LRM 222.6 31 50 34.00 P00 34.67 34.02 0.65M0.000 0.00 0.67 59.53 -58.86 0.000
 LMW 239.7 96 50 37.50 P 0 38.17 36.15 2.02M0.000 0.00 0.67 63.26 -62.59 0.000
 WPI 246.1 248 50 37.09 PC0 38.36 36.95 1.41M0.000 0.00 0.67 64.67 -64.00 0.000
 NCM 345.2 352 50 49.40 P 0 50.07 49.34 0.73M0.000 0.00 0.67 86.34 -85.67 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM NE SW Z SE N E
 AVE. OF END POINTS 0.09 0.11 0.11 0.12 0.15 0.17 0.20
 NUMBER RMS MIN DRMS AVE DRMS QUALITY
 7 0.12 0.05 0.14 0

HORIZONTAL SE = 2.36 SE = 2.90 VERTICAL SE = 5.49
AZ = 44. AZ = -46. QUALITY = C

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	03	GAP	M	RMS	ERM	ERL	Q	SQD	ADJ	IN	MR	AVR	AAR	NM	AVXM	SOXM	NF	AVFM	SOFM				
831029	2329 11.80	44N13.86	114W 2.52	10.00	10	9	281	1	0.11	2.9	5.5	0	CID	0.07	11.68	0.00	0.10	0	0.0	0.0	0	0.0	0.0	0.0	0.0				
SE OF ORIG = 0.378 7 ITERATIONS TOTAL																													
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----																													
STN	DIST	AIM	AIN	PSEC	PRMK	TCOR	OUTTOD	TTICAL	DELAY	EOLY	P	RES	P	WT	TMIC	SSEC	SRMK	TTOD	TTICAL	S	RES	S	WT	ANX	PR	KMAG	R	FMP	FMAG
83	8.2	100	137	13.871P				2.07	2.28			-0.21	1.031			0.00	-11.80	4.04	-15.83	0.000								57	
MSUI	8.4	100	136	14.10 P				2.30	2.31			0.00	1.031															57	
816	8.5	125	136	13.661P	4			1.86	2.32			-0.46	0.000															57	
MSUI	8.9	84	134	14.23 P	0			2.43	2.36			0.07	1.031			0.00	-11.80	4.14	-15.93	0.000								57	
839	15.5	119	116	15.17EPD				3.37	3.24			0.13	1.031			18.03	6.23	5.68	0.56	0.000								57	
M-2	15.6	119	116	15.10 P	0			3.30	3.25	0.17		-0.12	1.031			0.00	-11.80	5.69	-17.78	0.000								57	
DSPI	16.9	95	114	15.35 P	0			3.55	3.45			0.11	1.031			0.00	-11.80	6.03	-17.83	0.000								57	
MBAI	19.4	126	110	15.75 P	4			3.95	3.83			0.13	0.000			0.00	-11.80	6.70	-18.49	0.000								57	
MBAI	19.4	126	110	15.55 P	4			3.75	3.83			-0.07	1.031			0.00	-11.80	6.70	-18.49	0.000								57	
CM81	20.3	147	108	15.10 P	4			3.30	3.96			-0.66	0.000			19.42	7.62	7.22	0.41	0.000								57	
837	21.3	150	107	16.08EPC				4.28	4.12			0.16	1.031			8.00	-11.80	7.65	-19.97	0.000								57	
M-1	22.9	142	105	16.01 P	-4			4.21	4.37	0.30		-0.46	0.000			0.00	-11.80	8.09	-19.88	0.000								57	
BRPI	24.6	163	104	16.37 P	0			4.57	4.62			-0.05	1.031			0.00	-11.80	8.09	-19.88	0.000								57	
LCRI	31.6	132	99	16.90 P	4			5.10	5.75			-0.65	0.000			0.00	-11.80	10.06	-21.86	0.000								57	
811	37.1	150	97	19.89EP	4			8.09	6.64			1.45	0.000															57	
86	47.4	128	95	15.161P	4			3.36	8.29			-4.93	0.000															57	
810	47.9	141	95	21.071P	4			9.27	8.37			0.91	0.000															57	
846	48.3	141	95	20.581P	4			8.78	8.44			0.35	0.000															57	
88	51.3	144	95	15.631P	4			3.83	8.93			-5.09	0.000			26.53	14.73	14.77	-0.03	0.722								57	
87	58.2	139	94	23.071P	4			11.27	10.04	0.28		0.96	0.000															57	
8PM	87.8	42	92	21.50 PC4				9.70	14.85			-5.15	0.000			0.00	-11.80	25.99	-37.78	0.000								57	
4PI	95.2	127	92	28.82 P	0			17.02	16.05			0.98M0.000				0.00	-11.80	28.08	-39.88	0.000								57	
JG1	110.2	98	65	30.84 P	0			19.04	18.28			0.77M0.000				0.00	-11.80	31.98	-43.78	0.000								57	
C18	127.8	136	65	33.68 P	0			21.88	20.87			1.02M0.000				0.00	-11.80	36.52	-48.31	0.000								57	
G81	160.7	100	65	38.50 P	0			26.70	25.71			1.00M0.000				0.00	-11.80	44.98	-56.78	0.000								57	
T10	172.3	242	65	40.90 P	0			29.10	27.41			1.70M0.000				0.00	-11.80	47.96	-59.76	0.000								57	
CPI	185.6	257	65	41.80 P00				30.00	29.36			0.65M0.000				0.00	-11.80	51.38	-63.17	0.000								57	
CM1	195.6	80	50	44.00 P	0			32.20	30.76			1.45M0.000				0.00	-11.80	53.83	-65.62	0.000								57	
TM1	199.5	121	50	43.78 P	0			31.98	31.25			0.74M0.000				0.00	-11.80	54.68	-66.48	0.000								57	
KCI	201.0	100	50	44.60 P	0			32.80	31.44			1.37M0.000				0.00	-11.80	55.01	-66.81	0.000								57	
LRM	216.8	35	50	45.40 P	0			33.60	33.41			0.19D0.000				0.00	-11.80	58.48	-70.27	0.000								57	
BUT	229.7	30	50	46.90 P	0			35.10	35.03			0.07D0.000				0.00	-11.80	61.30	-73.10	0.000								57	
4PI	241.8	244	50	49.40 P00				37.60	36.53			1.07P0.000				0.00	-11.80	63.94	-75.73	0.000								57	
IMW	251.2	90	50	51.27 P	0			39.47	37.72			1.76M0.000				0.00	-11.80	66.00	-77.80	0.000								57	
MSD	288.9	2	50	54.60 PC0				42.80	42.43			0.38D0.000				0.00	-11.80	74.25	-86.04	0.000								57	
MLI	290.4	147	50	56.71 P	0			44.91	42.61			2.31M0.000				0.00	-11.80	74.56	-86.36	0.000								57	
BEI	298.2	142	50	58.72 P	0			46.92	43.58			3.34M0.000				0.00	-11.80	76.27	-88.07	0.000								57	
NCM	330.3	353	50	59.60 PC0				47.80	47.61			0.20D0.000				0.00	-11.80	83.31	-95.10	0.000								57	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH AVE. OF END POINTS Z N NE E NW SE SW 0.04 0.05 0.06 0.07 0.08 0.09 0.10

83/10/29 23/39 BEGIN-----BEGIN-----83/10/29 23/39

HORIZONTAL SE = 2.23 VERTICAL SE = 2.94
AZ = -4. AZ = -94. QUALITY = 0

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	03	GAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	NH	AVXM	SOXM	NF	AVFM	SOFM
831029	2339	5.44	44N15.46	114W 4.46	10.00	13	19	300	1	0.12	2.2	2.9	C	610	0.07	11	65	0.00	0.09	0	0.0	0.0	0	0.0	0.0
SE OF ORIG = 0.152 6 ITERATIONS TOTAL																									
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----																									
STN	DIST	AZM	AIN	PSC	PRMK	TCOR	OTTOR	TTCL	DELY	EOLY	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTCL	S-RES	S-WT	ANX	PR	KMAG	R	FMP	FMAG
83	11.5	113	126	7.62IP							-0.50M0.000														
MSUI	11.6	100	126	8.08 P							-0.05 1.048														
WSUI	11.7	112	126	9.40 P 4							1.26 0.000														
816	12.3	129	123	8.06IP							-0.12 1.048														
839	19.3	123	110	9.23EPD							-0.02 1.048														
M-2	19.3	123	110	9.25 P00						0.17	-0.18 1.048														
OSPI	19.9	103	109	9.50 P 0							-0.16 1.048														
WBAI	23.2	128	105	9.60 P 4							-0.25 0.000														
837	25.2	148	103	10.19IP							0.03 1.048														
A-1	26.9	141	102	10.85 P-0						0.30	0.11 1.048														
BRPI	28.2	160	101	10.65 P 0							0.00 1.048														
LCRI	35.5	133	98	11.10 P 4							-0.72 0.000														
811	41.0	149	96	14.24 P 4							1.54 0.000														
86	51.3	129	95	14.99 P							0.64M0.000														
910	51.8	141	95	15.11 P							0.67M0.000														
846	52.2	141	94	14.40IP							8.96 9.07														
88	55.2	144	94	15.03 P							-0.11 1.048														
87	62.1	139	94	16.02 P							0.04 1.048														
MPI	99.1	128	65	22.76 P 0						0.28	0.23 1.048														
113.2	99	65	24.94 P 0								0.69M0.000														
C18	131.8	136	65	27.98 P 0							0.78M0.000														
G8I	163.8	101	65	32.50 P 0							1.00M0.000														
T10	171.5	241	65	32.30 PC0							-0.42M0.000														
CPI	183.4	256	65	33.70 PC2							-0.78M0.000														
CMI	197.6	81	50	38.50 P 0							2.04M0.000														
TMI	203.2	121	50	38.04 P 0							0.88M0.000														
KCI	204.1	109	50	39.10 P 0							1.84M0.000														
LMI	215.9	36	50	39.20 P 0							0.46M0.000														
BUT	228.5	31	50	40.80 P 0							0.48M0.000														
WPI	240.7	243	50	43.00 PD2							1.16M0.000														
IMW	254.2	99	50	45.52 P 0							1.95M0.000														
MSD	286.0	2	50	47.50 P 0							0.00M0.000														
ALI	294.3	147	50	50.77 P 8							2.23M0.000														
REI	302.1	142	50	52.34 P 0							2.84M0.000														
NCM	327.1	353	50	53.50 PC0							0.86M0.000														

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E NW M Z SE NE SW
AVE. OF END POINTS 8.06 0.10 0.11 0.13 0.16 0.17 0.17

NUMBER RMS MIN ORMS AVE ORMS QUALITY
11 0.12 0.04 0.13 0

83/10/29 23/41 BEGIN-----BEGIN-----83/10/29 23/41

HORIZONTAL
SE = 11.00
AZ = -36.
VERTICAL
SE = 33.91
AZ = -126.
QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SOXM NF AVFM SOFM
831029 2341 30.80 44N20.80 113W56.84 11.58
SE OF ORIG = 0.848 12 ITERATIONS TOTAL
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY=P-RS P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR IMAG R FMP FMAG
939 21.3 163 113 35.031P 4.23 4.21 0.02 1.081 38.16 7.36 7.37 -0.01 0.757 59
811 46.5 166 98 40.071P 9.27 8.18 1.09M0.000 59
96 51.7 149 97 39.941P 9.14 9.02 0.12 1.081 59
846 55.4 156 96 41.261P 10.46 9.62 0.84M0.000 59
87 64.7 152 95 42.061P 11.26 11.12 0.28 -0.13 1.081 59

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E SW Z NE N NW SE
AVE. OF END POINTS 0.17 0.20 0.22 0.25 0.27 0.29 0.29

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.09 0.08 0.25 0

-----END-----END-----END-----

83/10/30 0/20 BEGIN-----BEGIN-----83/10/30 0/20

HORIZONTAL
SE = 0.72
AZ = -29.
VERTICAL
SE = 3.58
AZ = -119.
QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SOXM NF AVFM SOFM
831030 020 1.31 44N 0.11 113W52.33 9.37
SE OF ORIG = 0.184 8 ITERATIONS TOTAL
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY=P-RS P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR IMAG R FMP FMAG
838 17.0 88 111 4.811P 3.50 3.43 0.07 1.111 7.34 6.03 6.00 0.03 0.778 61
846 20.8 125 105 5.341P 4.03 4.00 0.03 1.111 8.04 6.73 7.00 -0.27 0.778 61
83 24.6 347 101 5.841P 4.53 4.62 -0.09 1.111 61
87 30.7 128 98 7.341P 6.03 5.58 0.28 0.17 1.111 61

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW SE NW E N
AVE. OF END POINTS 0.05 0.12 0.15 0.15 0.19 0.24 0.29

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.13 0.04 0.18 0

```

83/10/30 0/24 -----BEGIN-----83/10/30 0/24
                                BEGIN
HORIZONTAL                      VERTICAL
SE = 3.47                      SE = 10.63
AZ = -23.                      AZ = -113.

DATE      ORIGIN    LAT      LONG    DEPTH    MAG NO D3 GAP M  RMS  ERM  ERZ Q SOD  ADJ IN NR  AVR  AAR  MM  AVMM  SOIM  MF  AVFM  SC
831030   024 17.43 43M54.01 113M53.37 3.27      7 22 247 1 0.25 10.6 91.2 0 DID 0.14 10 8 0.00 0.23 0 0.0 0.0 0 0.0 0.0 0.0
USE OF ORIG = 0.508          10 ITERATIONS TOTAL

(--- STATION DATA ---) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA
STN  DIST AZM AIN PSEC PRK+TCOR-DATTOB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMGR FMP
1810 17.8 92 98 20.841P 3.41 3.32 0.09 1.094 23.12 5.69 5.98 -0.29 0.766 62
88 18.3 106 98 20.731P 3.30 3.42 -0.11 0.000 24.44 7.01 7.10 -0.09 0.766 62
86 18.3 92 98 21.131P 3.70 3.42 0.29 1.094 26.7 106 95 22.351P 4.92 4.90 0.28 -0.26 1.094 62
838 22.0 57 96 21.841P 4.41 4.06 0.35 1.094 -0.20 1.094 62
87 26.7 106 95 22.351P 4.92 4.90 0.28 -0.26 1.094 62
3 35.6 353 94 23.701P 6.27 6.48 -0.20 1.094 62

```

QUALITY EVALUATION						
DIAGONALS IN ORDER OF STRENGTH	NW	NE	SW	SE	Z	E
AVE. OF END POINTS	-0.09	-0.09	-0.06	-0.01	-0.01	0.10

-----BEGIN-----BEGIN-----83/10/30 0/28

```

HORIZONTAL          SE = 4.50
1.65               AZ = -79.
11.
VERTICAL            SE = 2.47
QUALITY = 0

```

[illegible]

Z-STATION DATA -)		P-WAVE TRAVEL-TIME DATA AND DELAYS				VARI (---- S-WAVE TRAVEL-TIME DATA ----)				MAGNITUDE DATA --)											
DIST	AZM	AIN	PSEC	PRKX+TCOR	TTCL-DELAY=COLV=	P-RES	P-WT	THIC	SSEC	SRK	TTOT	TTCL	S-RES	S-WT	AMX	PR	KMAG	R	FMP	FMAG	
8.8	85	118	41.70	P	2.13	1.84	0.29	1.000	0.00	39.57	3.22	42.79	0.000								
15.1	111	106	42.70	PCO	3.13	2.91	0.05	1.000	0.00	39.57	5.10	44.96	0.000								
17.3	87	104	42.72	P	3.15	3.29	-0.14	1.000	0.00	39.57	5.76	45.23	0.000								
18.6	119	103	42.95	P	3.30	3.51	-0.13	1.000	0.00	39.57	6.15	45.72	0.000								
21.6	137	101	43.90	P	4.33	4.03	0.00	1.000	0.00	39.57	7.06	47.15	0.000								
22.6	160	101	43.76	P	4.19	4.21	-0.02	1.000	46.26	6.69	7.37	-0.08	0.000								
30.5	128	98	45.02	P	5.45	5.62	-0.17	1.000	0.00	39.57	9.84	49.41	0.000								
89.8	41	65	54.80	P	15.23	15.31	-0.08	1.000	0.00	39.57	26.80	66.37	0.000								
94.3	126	65	55.88	P	16.31	16.04	-0.27	1.000	0.00	39.57	28.07	67.64	0.000								
110.4	97	65	58.18	P	18.61	18.66	-0.05	1.000	0.00	39.57	32.66	72.23	0.000								
126.6	135	55	0.86	P	21.29	21.10	0.1900	-0.000	0.00	20.43	36.92	16.49	0.000								
160.9	99	55	6.40	P	26.83	26.14	0.6900	-0.000	0.00	20.43	45.74	25.31	0.000								
170.8	92	55	0.30	P	28.73	27.60	1.1300	-0.000	0.00	20.43	48.31	27.88	0.000								
184.6	250	55	9.80	P	30.23	29.63	0.6600	-0.000	0.00	20.43	51.86	31.43	0.000								
198.8	120	55	11.03	P	31.46	31.71	-0.2500	-0.000	0.00	20.43	55.50	35.06	0.000								
218.9	35	44	12.80	P	33.23	34.24	-1.0100	-0.000	0.00	20.43	59.93	39.50	0.000								
240.4	245	44	17.60	P00	38.03	36.93	1.1000	-0.000	0.00	20.43	64.63	44.20	0.000								
251.4	98	44	20.20	P	40.63	38.31	2.3200	-0.000	0.00	20.43	67.04	46.61	0.000								

QUALITY EVALUATION									
DIAGONALS IN ORDER OF STRENGTH									
	SE	Z	NW	SW	E	NE	N		
AVE. OF END POINTS	0.03	0.05	0.06	0.09	0.09	0.10	0.15		

83/10/30 0/33 BEGIN-----BEGIN-----83/10/30 0/33

HORIZONTAL SE = 1.36 SE = 2.40 VERTICAL SE = 2.27 QUALITY = A
AZ = -5. AZ = -95.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVKM SOXM MF AVFM SOFM
831030 033 4.18 4410.41 114W 2.96 8.65 3.41 15 14 244 1 0.17 2.4 2.3 0 C10 0.08 10 46 0.00 0.13 0 0.0 0.0 5 3.4 0.3
SE OF ORIG = 0.182 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR=0-TT08-TICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R PHP PHAG
MSUI 10.1 61 124 6.90 P 0 2.72 2.38 0.34 1.042 0.00 -4.18 4.16 -8.34 0.000
MSUI 11.9 52 119 6.72 P 4 2.54 2.62 -0.08 0.000 0.00 -4.18 4.59 -8.77 0.000
MSUI 14.3 94 112 7.18 P 0 3.00 2.97 0.03 1.042 9.61 5.43 5.20 0.23 0.729
M-2 14.3 95 112 7.25 PC0 3.07 2.98 0.17 -0.07 1.042 0.00 -4.18 5.21 -9.68 0.000
MBAI 17.0 107 107 7.40 P 0 3.22 3.39 -0.17 1.042 9.80 5.62 5.94 -0.31 0.000
OSPI 18.1 74 105 7.40 P 0 3.22 3.55 -0.33 1.042 0.00 -4.18 6.22-10.39 0.000
ARPI 18.8 156 104 7.76 PC0 3.58 3.67 -0.09 1.042 0.00 -4.18 6.42-10.60 0.000
M-1 18.8 128 104 8.20 P 0 4.02 3.68 0.30 0.04 1.042 0.00 -4.18 6.44-11.14 0.000
LCRI 28.2 121 97 9.32 P00 5.14 5.17 -0.13 1.042 15.40 11.22 11.30 -0.08 0.729
838 36.1 120 94 10.51 P 0 6.33 6.46 -11.91 0.000 17.38 13.20 13.53 -0.33 0.000
846 44.0 135 93 0.00 P 4 -4.18 7.73 0.12 1.042 0.00 -4.18 27.17-31.35 0.000
MPI 92.1 124 91 19.83 P 0 15.65 15.53 -0.02 1.042 0.00 -4.18 27.45-31.63 0.000
8PM 93.0 40 91 19.80 PC0 15.62 15.69 0.02 1.042 0.00 -4.18 32.16-36.34 0.000
J61 110.3 95 65 22.58 PC0 18.40 18.38 0.24 1.042 0.00 -4.18 35.62-39.80 0.000
C18 123.7 134 65 24.77 P00 20.59 20.36 0.2300.000 0.00 -4.18 45.05-49.23 0.000
G81 160.4 97 65 30.15 P 0 25.97 25.74 0.4000.000 0.00 -4.18 47.29-51.47 0.000
T10 169.1 244 65 31.60 PC0 27.42 27.02 0.6400.000 0.00 -4.18 51.06-55.24 0.000
CPI 183.7 259 65 34.80 P00 29.82 29.18 30.94 31.08 -0.1400.000 0.00 -4.18 54.39-58.57 0.000
TMI 191.0 119 50 35.12 P 0 33.22 34.25 -1.0300.000 0.00 -4.18 59.94-64.12 0.000
LRM 224.4 35 50 37.40 P 0 36.42 36.31 0.1100.000 0.00 -4.18 63.54-67.72 0.000
WPI 238.9 246 50 40.68 P00 38.67 37.87 0.8000.000 0.00 -4.18 66.28-70.46 0.000
IMW 251.4 97 50 42.85 P 0 44.18 42.12 2.0600.000 0.00 -4.18 73.70-77.88 0.000
MLI 285.3 147 50 48.36 P 0 57 3.0 68 3.2 83 3.5 80 3.6 89 3.8

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E SE NE Z N SW
AVE. OF END POINTS 0.00 0.06 0.06 0.07 0.08 0.10 0.10 0.10
NUMBER RMS MIN RMS AVE RMS QUALITY
7 0.17 -0.09 0.06 0

03/10/30 1/7 BEGIN-----BEGIN-----03/10/30 1/7

HORIZONTAL SE = 4.69 SE = 1.50 QUALITY = 0
AZ = 30. AZ = -60.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOKM MF AVFM SDFM
031030 1 7 41.35 44N13.52 114W 3.59 3.49 3.68 11 17 282 1 0.08 4.7 1.5 D CID 0.17 10 44 0.00 0.07 0 0.0 0.0 6 3.7 0.3
SE OF ORIG = 0.008 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSC PRMK+TCOR=0-TTDB-TTCAL-DELT-EOLY= P-RES P-WI THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XHAG R PHP PMAG
WSUI 9.7 95 107 43.30 P 0 1.95 1.90 0.04 1.073 0.00-41.35 3.33-44.68 0.000
NSUI 10.4 81 106 43.45 P 2 2.10 2.02 0.08 0.268 0.00-41.35 3.53-44.88 0.000
M-2 16.6 115 99 44.80 PC0 3.45 3.11 0.17 1.073 0.00-41.35 5.45-47.10 0.000
DSPI 18.2 92 98 44.72 P 0 3.37 3.40 -0.04 1.073 0.00-41.35 5.96-47.31 0.000
MBAI 20.2 122 98 45.00 P 0 3.65 3.76 -0.11 1.073 0.00-41.35 6.37-47.92 0.000
M-1 23.4 138 97 46.00 P+0 4.65 4.32 0.30 0.03 1.073 0.00-41.35 7.56-49.43 0.000
BRPI 24.4 159 96 45.82 PC0 4.47 4.50 -0.03 1.073 46.77 5.42 7.88 -2.46 0.000
LSGS 28.8 106 95 46.52 P00 5.17 5.27 0.00-41.35 9.23-50.58 0.000
LCRI 32.3 129 95 47.22 PC0 5.87 5.90 -0.03 1.073 0.00-41.35 10.22-51.67 0.000
MPI 96.0 127 65 57.86 PC0 16.51 16.43 0.08 1.073 0.00-41.35 28.75-70.10 0.000
JGI 111.5 98 65 0.26 PC0 18.91 18.95 -0.04 1.073 0.00 18.65 33.17-14.52 0.000
CIS 128.4 136 55 2.88 P00 21.53 21.51 0.0200.000 16.53 35.18 37.65 -2.47 0.000
GBI 162.0 99 55 7.99 PC0 26.64 26.46 0.1800.000 0.00 18.65 46.31-27.66 0.000
TIO 170.8 242 55 9.70 P 0 28.35 27.74 0.08 18.65 48.55-29.90 0.000
CPI 184.1 237 55 10.90 PC1 29.55 29.70 -0.1500.000 0.00 18.65 51.97-33.32 0.000
TWI 200.4 121 55 13.14 P00 31.79 32.10 -0.3100.000 0.00 18.65 56.17-37.52 0.000
LRM 218.1 36 44 14.50 P00 33.15 34.34 -1.1900.000 0.00 18.65 60.10-41.45 0.000
BUT 231.0 31 44 16.20 P 0 34.85 35.95 -1.1000.000 44.00 62.65 62.91 -0.26 0.000
WPI 240.2 244 44 18.10 PC0 36.75 37.10 -0.3500.000 0.00 18.65 64.93-46.28 0.000
IMW 252.5 98 44 20.68 P 0 39.33 38.64 0.6900.000 0.00 18.65 67.62-48.97 0.000
MLI 290.6 147 44 26.59 P 0 45.24 43.40 1.8400.000 0.00 18.65 75.95-57.30 0.000
SAM 309.7 46 44 26.00 P 0 44.65 45.79 -1.1400.000 0.00 18.65 80.13-61.48 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW N SE NW E NE
AVE. OF END POINTS 0.05 0.10 0.12 0.13 0.14 0.14 0.21

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.08 0.03 0.13 D

83/10/30 1/20 BEGIN-----BEGIN-----83/10/30 1/20

HORIZONTAL SE = 1.05 SE = 2.99 VERTICAL SE = 2.32
AZ = -18. AZ = -108. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 U SOD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SOFM
831030 120 0.87 44N 3.51 113W53.82 10.22 14 9 162 1 0.19 3.0 2.3 C C1C 0.11 10 20 0.00 0.16 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.209 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-0-TTDB-TTCL-EDLV= P-RES P-TT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR IMAG R FAP FAPG
837 1.2 303 173 2.801P 1.93 1.82 0.12 1.069 3.83 2.96 3.18 -0.22 0.748 68
M-1 3.0 66 163 3.01 P00 2.14 1.88 0.30 -0.04 1.069 0.00 -0.87 3.29 -4.68 0.000 68
M0A1 8.9 28 135 3.20 P 0 2.33 2.39 -0.06 1.069 0.00 -0.87 4.18 -5.05 0.000 68
M-2 11.8 10 126 4.00 PC0 3.13 2.74 0.17 0.23 1.069 0.00 -0.87 4.79 -5.95 0.000 68
839 11.9 10 126 3.921P 3.05 2.75 0.30 1.069 5.91 5.04 4.82 0.23 0.748 68
LCRI 12.1 99 125 3.42 P 0 2.55 2.77 -0.22 1.069 0.00 -0.87 4.85 -5.72 0.000 68
811 14.8 151 119 5.591P 4 4.72 3.15 1.57 0.000 0.00 -0.87 6.36 -7.23 0.000 68
MSUI 18.0 349 112 4.25 P+0 3.38 3.64 -0.25 1.069 0.00 -0.87 6.40 -7.27 0.000 68
83 18.1 349 112 2.521PC4 1.85 3.84 -1.99 0.000 0.00 -0.87 6.50 -7.37 0.000 68
LSGS 18.2 54 112 4.52 P 0 3.65 3.66 -0.31 1.069 0.00 -0.87 6.59 0.02 0.748 68
DSPI 18.6 16 112 4.27 P 0 3.40 3.72 -5.77 0.000 0.00 -0.87 6.59 0.02 0.748 68
846 26.3 134 103 0.001P 4 -0.87 4.91 0.19 1.069 0.00 -0.87 6.69 -49.55 0.000 68
88 29.0 141 101 6.401P 5.53 5.35 0.02 1.069 0.00 -0.87 6.68 -45.55 0.000 68
87 36.3 134 98 7.681P 6.81 6.51 2.1100.000 0.00 -0.87 6.68 -45.55 0.000 68
T10 175.2 249 65 30.80 PC0 29.93 27.82 4.87 0.000 0.00 -0.87 6.68 -45.55 0.000 68
WPI 245.4 250 50 42.70 PC4 41.83 36.96 4.87 0.000 0.00 -0.87 6.68 -45.55 0.000 68

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME Z E SW NW SE M
AVE. OF END POINTS 0.38 0.45 0.47 0.48 0.68 0.88 0.91

NUMBER RMS MIN RMS AVE RMS QUALITY
14 0.19 0.30 0.62 8

83/10/30 1/24 BEGIN-----BEGIN-----83/10/30 1/24

SE = 0.97 HORIZONTAL SE = 2.41 VERTICAL
AZ = -9. AZ = -99. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SDXM MP AVPM SDFM
831030 124 51.67 44N 5.59 113458.10 10.44 4.67 23 9 195 1 0.21 2.4 1.4 0 C10 0.10 10 70 0.00 0.18 0 0.0 0.0 9 4.7 0.5
SE OP ORIG = 0.149 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLT- P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
837 5.7 124 149 53.79EPD 2.12 2.10 0.02 1.027 55.48 3.81 3.67 0.14 0.719
MRP1 8.3 171 138 54.08 P 0 2.41 2.35 0.06 1.027 0.00-51.67 4.11-55.78 0.008
M-1 8.8 107 136 54.50 PCO 2.83 2.41 0.30 0.12 1.027 0.00-51.67 4.21-56.41 0.000
316 10.5 6 131 54.05IP 0 2.38 2.60 -0.22 1.027 0.00-51.67 4.55-56.22 0.000
MBA1 10.6 68 130 54.20 P 0 2.53 2.62 -0.09 1.027 0.00-51.67 4.59-56.26 0.000
M-2 11.0 45 129 54.70 P00 3.03 2.66 0.20 1.027 0.00-51.67 4.66-56.63 0.000
839 11.1 45 129 54.49EPD 2.82 2.67 0.15 1.027 56.54 4.87 4.68 0.19 0.719
83 14.0 9 121 54.58IPD 2.91 3.07 -0.16 1.027 0.00-51.67 5.37-57.04 0.000
MSUI 14.1 10 121 54.65 P00 2.98 3.07 -0.10 1.027 0.00-51.67 5.38-57.05 0.000
JSPI 17.7 38 114 55.17 P 0 3.50 3.59 -0.09 1.027 0.00-51.67 6.28-57.95 0.000
LCRI 18.6 108 113 55.32 P 0 3.65 3.73 -0.08 1.027 0.00-51.67 6.52-58.20 0.000
811 21.1 143 109 56.28IP 0 4.61 4.11 0.49 1.027 0.00-51.67 7.20-58.87 0.000
LSGS 21.5 71 108 55.72 P 0 4.05 4.18 -0.13 1.027 0.00-51.67 7.31-58.98 0.000
810 32.6 132 100 57.49IPD 5.82 5.93 -0.11 1.027 0.00-51.67 10.38-62.05 0.000
86 34.3 114 99 57.48IPD 5.81 6.20 -0.39 1.027 0.00-51.67 10.85-62.52 0.000
88 35.7 138 99 57.77IPD 6.10 6.42 -0.32 1.027 0.00-51.67 11.23-62.90 0.000
87 43.1 132 97 59.27IPD 7.60 7.60 0.28 -0.29 1.027 0.00-51.67 13.31-65.47 0.000
8PM 81.8 121 93 5.72 PCO 14.05 13.87 0.32 1.027 0.00 8.33 28.36-20.03 0.000
JGI 103.4 90 65 8.89 PCO 17.22 17.25 -0.03 1.027 0.00 8.33 30.18-21.85 0.000
CIB 113.0 133 65 10.55 P00 18.88 18.65 0.23 1.027 0.00 8.33 32.64-24.31 0.000
G81 153.2 94 65 16.41 PCO 24.74 24.57 0.1600.000 0.00 8.33 43.01-34.68 0.000
TID 171.3 247 65 19.90 PD2 28.23 27.23 1.00M0.000 0.00 8.33 47.66-39.33 0.000
TMI 187.0 118 65 21.00 P00 29.33 29.54 -0.2100.000 0.00 8.33 51.69-43.36 0.000
CPI 188.7 262 65 21.40 PCO 29.73 29.19 -0.0600.000 40.10 48.43 52.13 -3.70 0.000
KCI 191.0 104 65 22.00 PCO 30.33 30.13 0.2000.000 0.00 8.33 52.72-44.39 0.000
CMI 193.3 76 50 22.80 P00 30.93 30.43 0.5000.000 0.00 8.33 53.26-44.93 0.000
LHM 226.3 32 50 25.60 P 0 33.93 34.56 -0.63M0.000 0.00 8.33 60.48-52.15 0.000
8UT 240.3 27 50 27.40 PCO 35.73 36.31 1.29M0.000 0.00 8.33 63.54-55.22 0.000
WPI 241.4 248 50 29.40 P00 37.73 36.44 0.85M0.000 0.08 8.33 64.33-56.00 0.000
IMW 243.9 95 50 29.28 PCO 37.61 36.76 0.1800.000 0.00 8.33 70.96-62.63 0.000
MLI 274.2 147 50 32.40 P 0 40.73 40.55 0.92M0.000 0.00 8.33 77.48-69.15 0.000
8EI 282.6 141 50 34.19 P 1 42.52 41.60 -1.25M0.000 0.00 8.33 79.94-71.62 0.000
MSD 304.1 0 50 34.70 PCO 43.03 44.28 -0.3500.000 0.00 8.33 86.72-78.39 0.000
SXM 315.3 44 50 37.00 P00 45.33 45.68 -0.4200.000 0.00 8.33 86.72-78.39 0.000
NCM 346.3 352 58 40.80 P00 49.13 49.55

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME M SM Z NW SE E
AVE. OF END POINTS 0.02 0.03 0.03 0.04 0.04 0.05 0.08
NUMBER 9
RMS MIN DRMS AVE DRMS QUALITY
0.21 -0.03 0.04 D

83/10/30 1/58 BEGIN-----BEGIN-----83/10/30 1/58

DATE ORIGIN LAT LONG DEPTH MAG MD Q3 GAP M RMS ERH ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SDIM MF AVFM SDFM
831030 158 23.80 44N 2.73 113421.69 10.00 2100 351 1 0.31 99.0 99.0 0 D1030.39 10 36-6.67 6.67 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 9.497 4 ITERATIONS TOTAL

SE = 92.92 SE = 99.00 VERTICAL
AZ = -75. AZ = 15.

STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRNK+TCOR-D-TT08-TTCAL-DELAY-EOLY- P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
87 28.9 215 101 7.99IP 4 43.29 5.33 0.28 37.68 0.000 0.00-23.80 9.82-33.62 0.000 70
L5G5 30.7 293 100 26.62 P 0 2.82 5.61 -2.79M0.000 0.00-23.80 9.90-33.71 0.000 70
LCRI 31.0 269 100 27.22 P 0 3.42 5.66 -2.24M0.000 27.50 3.70 12.38 -8.68 0.000 70
MBAI 39.8 284 97 25.30 P 0 1.60 7.07 -5.48M0.000 0.00-23.80 12.51-36.84 0.000 70
M-1 40.3 274 96 26.70 P 0 2.90 7.15 0.30 -4.55M0.000 0.00-23.80 13.08-36.88 0.000 70
OSP1 42.3 297 96 24.62 P 0 0.82 7.47 -6.66 1.000 0.00-23.80 13.24-37.34 0.000 70
M-2 42.9 288 96 25.00 PCO 1.20 7.56 0.17 -6.54 1.000 28.62 4.82 14.53 -9.72 0.000 70
BRPI 47.5 267 95 26.12 P 2 2.32 8.30 -5.99M0.000 0.00-23.80 15.27-39.07 0.000 70
WSUI 50.1 293 95 23.20 P 0 -0.60 8.72 32.12M0.000 0.00-23.80 25.44-49.24 0.000 70
83 50.3 292 95 4.68IP0 40.88 8.75 -1.84M0.000 0.00-23.80 40.32-64.13 0.000 70
BPM 85.9 3 92 36.50 PCO 12.70 14.54 7.76M0.000 0.00-23.80 41.89-65.69 0.000 70
KCI 142.6 107 65 54.60 P 0 30.80 23.04 6.16M0.000 0.00-23.80 57.02-80.82 0.000 70
CMI 148.7 69 65 53.90 P00 30.10 23.94 -1.68M0.000 0.00-23.80 58.22-82.03 0.000 70
LRM 210.1 20 50 54.70 P 0 30.90 32.58 -7.17M0.000 83.00 59.20 60.83 -1.63 0.000 70
TIO 215.7 254 50 49.90 PCO 26.10 33.27 1.04 0.000 0.00-23.80 62.79-86.59 0.000 70
BUT 227.6 16 50 59.60 P 4 35.80 34.76 -8.88M0.000 0.00-23.80 73.51-97.37 0.000 70
CPI 236.5 265 50 50.80 P00 27.00 35.88 -7.34M0.000 0.00 36.20 89.99-53.79 0.000 70
WPI 285.8 253 50 58.50 PCO 34.70 42.04 -6.33M0.000
MCM 360.9 345 50 8.90 P00 45.10 51.42

83/10/30 1/59 BEGIN-----BEGIN-----83/10/30 1/59

HORIZONTAL SE = 1.50 SE = 2.85 VERTICAL SE = 2.07
AZ = -10. AZ = -100. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG MO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFM
831030 159 1.07 44N12.51 114W3.52 15.04 17 16 273 1 0.17 2.8 2.7 D CID 0.30 10 31 0.00 0.14 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.203 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
SYN DIST AZM AIM PSEC PRMK-TCOR-D=STDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TIOB TFCAL S-RES S-WT AMK PR XMAG R FMP FMAG
83 9.4 84 146 4.621PD0 2.75 3.05 -0.31 1.164 0.00 -1.87 5.34 -7.22 0.000
NSU1 10.7 71 142 5.30 P 3.43 3.18 0.25 1.164
839 15.0 108 131 5.791PD0 3.92 3.74 0.18 1.164
M-2 15.8 109 131 5.95 P 4.08 3.74 0.16 1.164
DSPI 18.2 86 126 5.62 P 3.75 4.04 -0.29 1.164
CMOI 19.1 140 125 5.65 P 2 3.78 4.15 -0.37 0.291
MBAT 19.2 117 125 6.00 PD 4.13 4.18 -0.06 1.164
837 20.0 143 123 6.241PD0 4.37 4.28 0.08 1.164
M-1 22.0 135 121 6.70 P 2 4.83 4.56 0.30 -0.03 0.291
8RPI 22.6 158 120 6.48 PC 4.61 4.65 -0.05 1.164
LSGS 28.2 102 114 7.37 PD 5.50 5.45 0.04 1.164
LCRI 31.0 127 111 7.66 PD 5.79 5.89 -0.10 1.164
310 46.8 138 103 10.401P 0 8.53 8.33 0.19 1.164
846 47.3 138 103 10.301P 0 8.43 8.41 0.02 1.164
MPI 94.8 126 65 18.74 P 4 16.87 15.66 1.21 0.000
JGI 111.2 97 65 21.32 P 4 19.45 18.08 1.37 0.000
CIB 127.0 135 65 23.94 P 0 22.07 20.40 1.67M0.000
GRI 161.6 99 65 27.70 P 0 25.83 25.49 0.33D0.000
TMI 199.3 120 50 33.94 P 0 32.07 30.71 1.36M0.000
IMW 252.2 98 50 41.52 P 0 39.65 37.31 2.33M0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW SE E NE M Z
AVE. OF END POINTS -0.01 0.03 0.05 0.05 0.06 0.07 0.09

NUMBER RMS MIN DRMS AVE DRMS QUALITY
8 0.17 -0.05 0.04 0

83/10/30 2/54 -----BEGIN-----BEGIN-----83/10/30 2/54

HORIZONTAL SE = 0.79 SE = 2.08 VERTICAL SE = 1.67
AZ = -5. AZ = -95. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG WD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SOFM
831030 254 39.79 4412.63 114W 6.68 4.06 4.06 21 17 240 1 0.16 2.1 1.7 C 810 0.10 10 57 0.00 0.12 0 0.0 0.0 6 4.1 0.3
SE OF ORIG = 0.168 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
SYN DIST AIM AIN PSEC PRMK+TCOR-DITTOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSC SRMK TTON TTCAL S-RES S-WT AMX PR NMAG R FMP FMAG
83 13.6 87 104 42.41PD 2.65 2.60 0.05 1.032 0.00-39.79 4.62-44.41 0.000 71
MSUI 13.8 87 104 42.35 P 2.56 2.64 -0.08 1.052 45.40 5.61 5.63 -0.02 0.736 71
844 17.1 29 101 42.931P 3.14 3.22 -0.07 1.052 46.36 6.57 6.59 0.08 0.736 71
839 19.9 105 99 43.591P 3.00 3.71 0.09 1.052 0.00-39.79 6.50-46.59 0.000 71
M-2 19.9 105 99 43.90 P00 4.11 3.71 0.23 1.052 0.00-39.79 7.26-47.05 0.000 71
USPI 22.4 88 98 43.92 P 4.13 4.15 -0.02 1.052 0.00-39.79 7.50-47.28 0.000 71
MSAI 23.1 113 98 44.20 P00 4.21 4.28 -0.07 1.052 0.00-39.79 7.67-47.46 0.000 71
BSUI 23.7 138 98 44.20 P00 4.41 4.38 0.03 1.052 47.27 7.48 8.00 -0.52 0.000 71
ARPI 24.7 149 98 44.67 P01 4.08 4.57 0.31 0.592 0.00-39.79 10.38-50.16 0.000 71
M-1 25.3 128 97 44.81 P00 5.02 4.67 0.06 1.052 0.00-39.79 11.07-50.86 0.000 71
LSGS 32.4 101 96 45.42 PC0 5.63 5.93 -0.30 1.052 0.00-39.79 10.38-50.16 0.000 71
LCRI 34.6 123 95 45.92 P00 6.13 6.33 -0.19 1.052 0.00-39.79 11.07-50.86 0.000 71
810 49.9 135 65 48.51IP 8.72 8.90 -0.18 1.052 0.00-39.79 11.07-50.86 0.000 71
d6 50.6 123 65 48.70IP 8.91 9.02 -0.10 1.052 0.00-39.79 11.07-50.86 0.000 71
d8 53.0 138 65 49.17IP 9.38 9.41 -0.03 1.052 0.00-39.79 11.07-50.86 0.000 71
87 60.3 134 65 50.52IP 10.73 10.60 0.28 -0.15 1.052 0.00-39.79 27.90-67.69 0.000 71
dPM 93.2 44 65 55.90 PC0 16.11 15.94 0.17 1.052 0.00-39.79 29.36-69.14 0.000 71
MPI 98.4 124 65 56.92 PC0 17.13 16.70 0.36 1.052 0.00-39.79 34.20-73.99 0.000 71
JGI 115.4 97 65 59.31 PC0 19.52 19.54 -0.02 1.052 0.00 20.21 38.00-17.79 0.000 71
CIB 130.2 134 55 2.07 P00 22.28 21.72 0.57M0.000 0.00 20.21 47.19-26.97 0.000 71
GRI 165.9 99 55 6.98 PC0 27.19 26.96 0.23M0.000 0.00 20.21 47.31-27.09 0.000 71
TID 166.3 242 55 0.40 PC0 28.61 27.03 1.58M0.000 0.00 20.21 50.74-30.53 0.000 71
CPI 179.7 258 55 9.70 PC0 29.91 28.99 0.92M0.000 0.00 20.21 56.69-36.47 0.000 71
TMI 203.1 120 44 12.32 P00 32.53 32.39 0.14M0.000 0.00 20.21 60.78-40.57 0.000 71
LRM 221.9 36 44 13.50 P00 33.71 34.73 -1.02M0.000 0.00 20.21 63.55-43.34 0.000 71
SUT 234.5 31 44 15.00 P 35.21 36.31 -1.10M0.000 0.00 20.21 68.36-48.12 0.000 71
IMW 256.4 98 44 20.07 P 40.28 39.05 1.23M0.000 0.00 20.21 75.99-55.78 0.000 71
MSD 291.4 3 44 21.90 P00 42.11 43.42 -1.31M0.000 0.00 20.21 76.02-55.81 0.000 71
MLI 291.5 146 44 25.80 P 46.01 43.44 2.57M0.000 0.00 20.21 80.90-60.68 0.000 71
SKM 313.8 47 44 25.70 P 45.91 46.23 -0.31M0.000 0.00 20.21 84.87-64.66 0.000 71
NCM 332.0 354 44 27.70 P 47.91 48.50 -0.59M0.000 0.00 20.21 84.87-64.66 0.000 71

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW N Z E SE SW NE
AVE. OF END POINTS 0.03 0.06 0.06 0.08 0.09 0.11 0.12

NUMBER RMS MIN ORMS AVE ORMS QUALITY
8 0.16 -0.05 0.08 D

83/10/30 3/45 BEGIN-----BEGIN-----83/10/30 3/45

HORIZONTAL SE = 1.16 SE = 3.85 VERTICAL SE = 1.64 QUALITY = B
AZ = -1. AZ = -91.

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SDXM MF AVFM SDFM
831030 345 19.01 44W14.02 114N 5.44 6.10 4.03 17 14 233 1 0.18 3.8 1.6 0 C10 0.51 10 57 0.00 0.14 0 0.0 0.0 6 4.0 0.2
SE OF ORIG = 0.204 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTICAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
83 12.0 98 115 21.021P 4 2.01 2.47 -0.47 0.000 0.00-19.01 4.39-23.40 0.000 72
MSUI 12.3 90 115 21.75 PD2 2.74 2.51 0.23 0.280 0.00-19.01 4.52-23.54 0.000 72
MSUI 12.7 87 114 21.70 P 2.69 2.58 0.10 1.118 0.00-19.01 4.52-23.54 0.000 72
844 14.1 28 112 21.771PC 2.76 2.81 -0.05 1.118 23.93 4.92 4.91 0.00 0.783 72
839 19.2 114 106 22.751P 3.74 3.66 0.07 1.118 26.42 7.41 6.41 0.99M0.000 72
M-2 19.2 114 106 22.90 PC0 3.89 3.67 0.04 1.118 0.00-19.01 6.43-25.74 0.000 72
JSPI 20.0 95 105 22.02 P 3.81 3.94 0.13 1.118 0.00-19.01 6.89-25.91 0.000 72
MBAI 22.0 121 103 23.20 PC0 4.19 4.29 0.11 1.118 0.00-19.01 7.51-26.53 0.000 72
85UI 24.7 145 102 23.70 PD0 4.69 4.62 0.07 1.118 0.00-19.01 0.08-27.09 0.000 72
M-1 25.7 135 102 24.12 PC0 5.11 4.80 0.00 1.118 0.00-19.01 8.40-27.94 0.000 72
8RPI 26.2 155 102 23.77 P 2 4.76 4.89 0.13 0.280 0.00-19.01 0.53-27.57 0.000 72
LSGS 31.4 106 65 24.52 P 0 5.31 5.75 0.24 1.118 0.00-19.01 10.06-29.07 0.000 72
LCRI 34.0 120 65 25.07 PC0 6.06 6.30 0.24 1.118 0.00-19.01 11.02-30.03 0.000 72
810 50.6 130 65 20.40IP 9.47 8.87 0.60M0.000 72
06 50.7 126 65 27.61IP 0.60 8.88 0.28 1.110 72
88 53.9 141 65 27.961P 4 8.95 9.40 0.46 0.000 72
87 61.0 137 65 29.92IP 10.91 10.56 0.07 1.118 0.00-19.01 29.13-48.14 0.000 72
WPI 90.5 126 65 36.00 PC0 17.07 16.04 0.42 1.118 0.00-19.01 33.51-52.52 0.000 72
JCI 114.1 90 55 30.42 PC0 19.41 19.15 0.26 1.118 0.00-19.01 37.00-56.81 0.000 72
CIB 130.0 135 55 41.34 PC0 22.33 21.60 0.73M0.000 72
GBI 164.6 100 55 46.12 P 0 27.11 26.58 0.53C0.000 72
TIO 169.0 241 55 49.23 PC2 30.22 27.22 3.00M0.000 72
CPI 101.5 257 55 40.03 PC0 29.82 29.06 0.75M0.000 72
TMI 203.0 121 44 51.50 PD0 32.57 32.11 0.45M0.000 72
LRM 218.0 36 44 52.50 PD0 33.49 34.09 0.61M0.000 72
8UT 231.5 31 44 54.10 P 0 35.09 35.67 0.59M0.000 72
WPI 238.4 244 44 55.53 PC2 36.52 36.54 0.02M0.000 72
IMW 255.1 90 44 59.05 P 0 40.04 38.63 1.41M0.000 72
MSO 208.7 2 44 0.00 P 0 41.79 42.83 1.05M0.000 72
MLI 292.7 147 44 5.16 P 0 46.15 43.33 2.81M0.000 72
SYM 310.9 47 44 4.20 PD0 45.19 45.60 0.41D0.000 72

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM SE I M ME E SW
AVE. OF END POINTS 0.00 0.03 0.04 0.07 0.09 0.10 0.10
NUMBER 7
RMS MIN DRMS AVE DRMS QUALITY
0.10 -0.07 0.07 D

83/10/30 3/53 -----BEGIN-----BEGIN-----BEGIN-----83/10/30 3/53

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ER2 Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831030 353 47.08 44W13.12 114W 3.83 7.46 3.11 13 17 244 1 0.16 4.3 3.2 0 C10 0.57 10 40 0.00 0.13 0 0.0 0.0 3 3.1 0.1
SE OF ORIG = 0.317 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR=0-TT08-TICAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R PWP FMAG
NSUI 10.0 90 118 50.05 PC0 2.17 2.25 -0.08 1.000 0.00-47.88 3.94-51.82 0.000
WSUI 10.0 78 114 50.50 P 0 2.62 2.38 0.24 1.000 0.00-47.88 4.17-52.05 0.000
M-2 16.6 112 98 51.32 PC0 3.44 3.28 0.17 -0.01 1.000 0.00-47.88 5.74-53.92 0.000
USPI 18.5 90 96 51.27 PC0 3.39 3.59 -0.20 1.000 0.00-47.88 6.29-54.17 0.000
MBRI 20.1 120 94 51.55 PC0 3.67 3.84 -0.17 1.000 54.55 6.67 6.72 -0.06 0.000
BSUI 22.1 147 93 51.90 PC0 4.02 4.16 -0.14 1.000 0.00-47.88 7.28-55.16 0.000
M-1 23.1 136 93 52.54 PC0 4.66 4.33 0.30 0.03 1.000 0.00-47.88 7.58-55.99 0.000
BRPI 23.9 158 93 52.37 P-0 4.49 4.46 0.03 1.000 53.07 7.19 7.80 -0.61 0.000
LSGS 28.9 104 92 53.17 PC0 5.29 5.27 0.01 1.000 0.00-47.88 9.23-57.11 0.000
LCRI 32.1 128 91 53.51 PC0 5.63 5.79 -0.16 1.000 0.00-47.88 10.13-58.01 0.000
BPM 90.0 42 90 3.00 PC0 15.12 15.19 -0.08 1.000 0.00 12.12 26.59-14.47 0.000
MPI 93.8 126 90 4.34 P 0 16.46 16.13 0.32 1.000 17.53 29.65 28.23 1.42 0.000
JGI 111.8 97 65 6.78 P 0 18.90 18.68 0.22 1.000 21.07 33.19 32.69 0.50 0.000
C19 128.1 135 65 9.57 P 0 21.69 21.08 0.61M0.000 0.00 12.12 36.89-24.77 0.000
GBI 162.2 99 65 14.89 P 0 27.01 26.10 0.91M0.000 0.00 12.12 45.68-33.56 0.000
T10 170.1 242 65 16.23 PC0 28.35 27.26 1.09M0.000 0.00 12.12 47.70-35.59 0.000
CPI 183.6 258 65 18.53 PC2 30.65 29.24 1.41M0.000 0.00 12.12 51.17-39.05 0.000
TMI 200.3 120 50 19.81 P 0 31.93 31.61 0.32D0.000 0.00 12.12 55.32-43.20 0.000
LRM 218.9 36 50 21.20 PC0 33.32 33.94 -0.62M0.000 0.00 12.12 59.40-47.28 0.000
MPI 239.6 244 50 24.43 PC0 36.55 36.53 0.02D0.000 0.00 12.12 63.92-51.80 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE 2 NW E NE SW N
AVE. OF END POINTS 0.02 0.04 0.06 0.10 0.10 0.12 0.13

NUMBER RMS MIN ORMS AVE ORMS QUALITY
6 0.16 0.01 0.09 0

83/10/30 4/11 BEGIN-----BEGIN-----83/10/30 4/11

HORIZONTAL SE = 1.78 VERTICAL SE = 1.04
AZ = -3. AZ = -93. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NN AVIM SOXM NF AVFM SOFM
831030 411 52.84 44N 8.46 113M57.33 6.19 3.11 14 9 190 1 0.13 1.8 1.0 C B10 0.65 10 38 0.00 0.11 0 0.0 0.0 3 3.1 0.1
SE OF ORIG = 0.118 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STM DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTICAL-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
M-2 7.2 70 130 54.90 P-0 2.04 1.74 0.17 0.15 1.120 0.00-52.84 3.04-56.18 0.000
WSUI 8.6 9 124 55.10 P02 2.26 1.95 0.31 0.280 0.00-52.84 3.41-56.25 0.000
MBAI 8.9 99 123 54.95 P 0 2.11 1.99 0.12 1.120 56.90 4.06 3.48 0.58 0.000
BSUI 10.5 162 119 55.10 P 0 2.26 2.22 0.04 1.120 0.00-52.84 3.89-56.73 0.000
M-1 10.8 137 118 55.47 P00 2.63 2.27 0.30 0.05 1.120 0.00-52.84 3.98-57.35 0.000
NSUI 11.1 10 118 55.00 P00 2.16 2.31 -0.15 1.120 0.00-52.84 4.05-56.89 0.000
OSPI 13.1 49 114 55.42 P 0 2.58 2.66 -0.08 1.120 0.00-52.84 4.65-57.49 0.000
BRPI 13.5 179 113 55.37 P+2 2.53 2.71 -0.19 0.280 0.00-52.84 4.75-57.59 0.000
LSOS 19.4 85 106 56.52 PC0 3.68 3.71 -0.24 1.120 0.00-52.84 6.50-59.34 0.000
LCRI 20.0 124 106 56.41 PC0 3.57 3.81 -0.24 1.120 0.00-52.84 6.66-59.50 0.000
MPI 83.8 125 65 7.23 P 0 14.39 14.25 0.14 1.120 0.00 7.16 24.94-17.78 0.000
BPM 91.4 35 65 8.40 P 0 15.56 15.48 0.08 1.120 0.00 7.16 27.09-19.93 0.000
JGI 102.5 93 65 10.02 P 0 17.18 17.29 -0.11 1.120 0.00 7.16 30.26-23.10 0.000
CIG 115.8 135 55 12.24 P 0 19.40 19.39 0.01 1.120 28.49 35.65 33.93 1.72 0.000
GBI 152.5 96 55 18.12 P 0 25.28 24.78 0.50C0.000 0.00 7.16 43.36-36.21 0.000
TIO 174.4 246 55 21.13 PC0 28.29 28.00 0.29C0.000 0.00 7.16 49.00-41.84 0.000
FMI 188.7 119 55 22.69 P 0 29.85 30.10 -0.25C0.000 0.00 7.16 52.68-45.52 0.000
CPI 190.5 261 55 22.93 P00 30.09 30.37 -0.28C0.000 0.00 7.16 53.15-45.99 0.000
LRM 221.3 32 44 26.30 PC0 33.46 34.39 -0.93M0.000 0.00 7.16 60.19-53.03 0.000
55 2.9 61 3.1 72 3.3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE Z SW E NW M NE
AVE. OF END POINTS 0.11 0.11 0.14 0.15 0.15 0.18 0.22

NUMBER RMS MIN RMS AVE RMS QUALITY
6 0.13 0.04 0.15 0

83/10/30 540 BEGIN-----BEGIN-----83/10/30 540

HORIZONTAL SE = 1.28 SE = 3.70 VERTICAL SE = 1.55
AZ = 12. AZ = -70. QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERI Q SQD ADJ IN MR AVR AAR NM AVHM SOXM NF AVFM SOFM
831030 540 15-22 44N13-47 114M 4-54 6-06 3-39 12 18 247 1 0-14 3-7 1-6 D CID 0-33 10 36 0-00 0-11 0 0-0 0-0 3 3-4 0-1
SE OF ORIG = 0-287 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STM DIST AZM AIM PSEC PRMK+TCOR-D=TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTION TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
WSU1 10-9 94 118 17-35 P-1 2-13 2-28 -0-15 0-624 0-00-15-22 3-99-19-21 0-000
MSU1 11-6 82 116 17-70 P 0 2-48 2-40 0-07 1-110 0-00-15-22 4-20-19-43 0-000
M-2 17-7 113 107 19-00 P 0 3-78 3-41 0-17 1-110 0-00-15-22 5-97-21-49 0-000
OSPI 19-5 92 106 18-84 P 0 3-62 3-72 -0-10 1-110 0-00-15-22 6-51-21-73 0-000
QBA1 21-3 120 104 19-20 P+0 3-98 4-02 -0-05 1-110 0-00-15-22 7-04-22-26 0-000
3SU1 23-2 146 103 19-40 P 0 4-18 4-35 -0-18 1-110 0-00-15-22 7-61-22-84 0-000
M-1 24-2 135 103 20-52 P 2 5-30 4-53 0-30 0-277 0-00-15-22 7-93-23-68 0-000
BRPI 24-8 157 102 19-93 P+0 4-71 4-64 0-07 1-110 22-23 7-01 8-12 -1-11 0-000
LSGS 30-0 105 65 20-62 PC0 5-40 5-52 -0-12 1-110 0-00-15-22 9-66-24-88 0-000
LCRI 33-2 128 65 21-21 P 0 5-99 6-04 -0-06 1-110 0-00-15-22 10-58-25-80 0-000
RPM 90-2 43 65 30-50 PC0 15-28 15-29 -0-02 1-110 0-00-15-22 26-76-41-99 0-000
MPI 96-9 126 65 32-40 P 0 17-18 16-39 0-78M0-000 0-00-15-22 28-69-43-91 0-000
JCI 112-8 97 55 34-34 P 0 19-12 18-95 0-16 1-110 0-00-15-22 33-17-48-40 0-000
C18 129-2 135 55 37-17 P 0 21-95 21-37 0-57M0-000 53-91 38-69 37-40 1-29 0-000
G81 163-3 99 55 42-32 P 0 27-10 26-38 0-71M0-000 61-61 46-39 46-17 0-22 0-000
TRI 201-4 120 44 47-36 P 0 32-14 31-92 0-2100-000 0-00-15-22 55-87-71-09 0-000
LRM 218-9 36 44 48-50 P00 33-28 34-11 -0-84M0-000 0-00-15-22 59-70-74-92 0-000
INW 253-8 98 44 54-80 P 2 39-58 38-47 1-11M0-000 0-00-15-22 67-32-82-54 0-000
74 3-3
76 3-3
97 3-6

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW NE E SE SW N
AVE. OF END POINTS 0-08 0-09 0-09 0-09 0-10 0-11 0-18

NUMBER 6
RMS MIN RMS AVE RMS QUALITY
0-14 0-00 0-11 0

83/10/30 6/10 BEGIN-----BEGIN-----83/10/30 6/10

HORIZONTAL SE = 1.89 SE = 4.56 VERTICAL SE = 13.99 QUALITY = 0
AZ = 11. AZ = -79.

DATE ORIGIN LAT LONG DEPTH MAG MO O3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM MF AVFM SDFM
831030 610 34.02 44N14.06 11W 5.03 0.17* 3.61 12 20 247 1 0.17 4.6 14.0 D CID 0.85 10 34 0.00 0.15 0 0.0 0.0 3 3.6 0.2
SE OF ORIG = 1.092 8 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STW ORST AZM AIN PSEC PRNK+TCOR-D-TTON-TICAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTON TICAL S-RES S-WT AMX PR AMAG R FMP FMAG
WSUI 12.0 106 58 37.30 P72 2.48 2.36 0.12 0.308 0.00-34.82 4.13-38.94 0.000
M-2 19.4 119 58 36.90 P00 4.08 3.68 0.17 0.23 1.231 0.80-34.82 6.44-41.55 0.000
DSPI 20.4 99 58 38.44 P 0 3.62 3.85 -0.23 1.231 0.00-34.82 6.74-41.56 0.000
MBRI 23.2 125 58 39.15 P 0 4.33 4.35 -0.02 1.231 0.08-34.82 7.61-42.43 0.000
3SUI 25.7 148 58 39.50 P+0 4.68 4.80 -0.12 1.231 0.00-34.82 8.40-43.21 0.000
M-1 26.5 138 58 40.32 P 2 5.50 4.94 0.30 0.26 0.308 0.00-34.82 8.65-44.00 0.000
BRPI 27.4 157 58 39.83 P+2 5.01 5.11 -0.10 0.308 42.28 7.46 8.95 -1.49 0.000
LSGS 31.3 109 58 40.72 P 0 5.90 5.81 0.09 1.231 0.00-34.82 10.17-44.99 0.000
LCRI 35.3 130 58 41.11 P 0 6.29 6.52 -0.23 1.231 0.00-34.82 11.42-46.23 0.000
OPM 88.8 45 50 50.40 P 0 15.58 15.56 0.03 1.231 0.00-34.82 27.22-62.04 0.000
MPI 98.8 127 50 52.31 P 0 17.49 17.22 0.27 1.231 0.00-34.82 30.13-64.95 0.000
JGI 113.8 99 50 54.34 P 0 19.52 19.62 -0.10 1.231 0.00-34.82 34.33-69.15 0.000
CIG 131.5 136 44 57.44 P 0 22.62 22.35 0.2700-000 74.24 39.42 39.11 0.31 0.000
GBI 164.4 100 44 2.12 P 0 27.30 27.18 0.1200-000 0.00 25.18 47.57-22.38 0.000
TMI 203.3 121 44 7.41 P 0 32.59 32.91 -0.3200-000 8.00 25.18 57.59-32.41 0.000
LRM 217.2 36 36 6.50 P 0 31.68 34.69 -3.01M0-000 0.00 25.18 60.70-35.52 0.000
IMW 254.8 99 36 14.97 P 0 40.15 39.38 0.77M0-000 0.00 25.18 68.92-43.74 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE Z M NW SW E NE
AVE. OF END POINTS -0.02 0.00 0.02 0.03 0.04 0.07 0.08

NUMBER RMS MIN ORMS AVE ORMS QUALITY
4 0.17 -0.06 0.03 D

83/10/30 -----BEGIN-----BEGIN-----BEGIN-----83/10/30 6/25

HORIZONTAL SE = 1.91 SE = 5.40 VERTICAL SE = 2.65 QUALITY = C
AZ = 11. AZ = -79.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
831030 625 58.45 44N16.87 114W 6.63 5.08 3.40 13 19 246 1 0.19 5.4 2.6 D DID 0.24 10 36 0.00 0.17 0 0.0 0.0 3 3.4 0.1
SE OF ORIG = 0.434 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-OUTTO-TTCAL-DELAY-EOLY P-RES P-WT TMIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
J5UI 11.5 107 112 1.10 P00 2.65 2.31 0.34 1.130 0.00 1.55 4.05 -2.50 0.000 0.00 1.55 26.30-24.83 0.000 72 3.2
NSUI 11.7 95 111 0.70 P 2 2.25 2.34 -0.08 0.283 0.00 1.55 4.09 -2.54 0.000 0.00 1.55 33.45-31.90 0.000 85 3.4
M-2 19.0 120 103 2.30 P00 3.85 3.58 0.10 1.130 0.00 1.55 6.26 -5.01 0.000 0.00 1.55 38.33 38.07 0.26 0.000 92 3.6
USPI 19.9 99 103 1.94 P 0 3.49 3.74 -0.24 1.130 0.00 1.55 6.54 -4.99 0.000 0.00 1.55 46.84 46.48 0.36 0.000
M6AI 22.8 125 101 2.50 P+0 4.05 4.24 -0.19 1.130 0.00 1.55 7.42 -5.86 0.000 0.00 1.55 56.40-54.84 0.000
J5UI 25.4 149 100 3.00 P-0 4.55 4.72 -0.17 1.130 0.00 1.55 8.26 -6.70 0.000 0.00 1.55 59.47-57.92 0.000
M-1 26.2 139 99 3.72 P 0 5.27 4.85 0.12 1.130 0.00 1.55 8.49 -7.46 0.000 0.00 1.55 67.65-66.09 0.000
BRPI 27.2 158 99 3.73 P+2 5.28 5.04 -0.24 0.283 0.00 1.55 8.03 -7.27 0.000
LSGS 30.8 110 98 4.02 P 0 5.57 5.68 -0.11 1.130 0.00 1.55 9.94 -8.38 0.000
LCRI 34.9 131 65 4.61 P 0 6.16 6.40 -0.24 1.130 0.00 1.55 11.20 -9.65 0.000
BPM 88.4 44 65 13.50 PC0 15.05 15.08 -0.02 1.130 0.00 1.55 26.30-24.83 0.000
MPI 98.6 127 65 15.45 P 0 17.00 16.73 0.27 1.130 27.59 29.14 29.28 -0.14 0.000
JGI 113.3 99 65 17.65 P 0 19.20 19.12 0.09 1.130 0.00 1.55 33.45-31.90 0.000
CIB 131.1 136 55 20.54 P 0 22.09 21.75 0.3400.000 36.78 38.33 38.07 0.26 0.000
GBI 163.8 100 55 25.58 P 8 26.93 26.56 0.3700.000 45.29 46.84 46.48 0.36 0.000
TMI 202.9 121 44 30.77 P 0 32.32 32.23 0.1000.000 0.00 1.55 56.40-54.84 0.000
LRM 216.9 36 44 31.50 P 0 33.05 33.98 -0.9300.000 0.00 1.55 59.47-57.92 0.000
IMW 254.3 99 44 35.54 P 2 37.09 38.65 -1.5600.000 0.00 1.55 67.65-66.09 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 1 NW E SE NE N SW
AVE. OF END POINTS -0.01 0.02 0.04 0.05 0.06 0.06 0.08

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.19 -0.04 0.05 0

83/10/30 7/13 BEGIN-----BEGIN-----83/10/30 7/13

HORIZONTAL
SE = 16.00 SE = 24.24 VERTICAL
AZ = -108. AZ = -18. SE = 20.11 QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODX MF AVFM SDFM
831030 713 58.08 44N12.74 114W 0.97 17.65 5 48 210 1 0.26 24.2 28.1 0 010 0.81 10 12 0.00 0.24 0 0.0 0.0 0.0 0.0
SE OF ORIG = 0.847 9 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK*TCOR-D-TTDB-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTOW TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 5.6 120 161 1.80EP 4 2.12 3.16 -1.04 0.000 78
83 6.0 84 168 0.73EP 1.85 3.18 -1.33M0.000 78
839 12.8 115 142 4.65EP 5.77 3.72 2.03M0.000 78
844 14.8 3 138 3.10EP 4.22 3.93 0.29 1.064 7.48 8.60 6.50 2.09M0.000 78
86 44.5 128 65 7.07EP 8.19 8.08 0.11 1.064 5.50 6.62 6.87 -0.26 0.745 78
810 44.9 142 65 7.78EP 8.90 8.15 0.75M0.000 78
846 45.4 141 65 0.00EP 4 1.12 8.22 -7.10 0.000 16.53 17.65 14.38 3.27 0.000 78
88 48.4 145 65 7.72EP 8.84 8.66 0.18 1.064 78
87 55.3 140 65 8.44EP 9.56 9.67 0.28 -0.39 1.064 78

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME SE SW 2 N E NM
AVE. OF END POINTS -0.01 0.02 0.05 0.06 0.11 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.26 -0.04 0.06 D

93/10/30 8/5 -----BEGIN-----BEGIN-----83/10/30 8/5

HORIZONTAL SE = 2.75 VERTICAL SE = 2.33 QUALITY = 8
SE = 1.10 AZ = -96.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SDIM NF AVEM SDFM
831030 8 5 23.91 44M14.06 114W 2.01 7.72 3.24 21 8 237 1 0.20 2.8 2.3 0 CID 0.05 10 46 0.00 0.18 0 0.0 0.0 4 3.2 0.1
SE OF ORIG = 0.185 5 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR=0-TTOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
83 7.6 104 129 26.03IP 2.12 1.95 0.17 1.137 0.00-23.91 3.46-27.37 0.000 79
W5UI 7.8 103 128 25.60 PD1 1.69 1.98 -0.29 0.640 28.49 4.58 4.64 -0.06 0.796 79
816 8.2 130 127 26.11IP 2.20 2.03 -0.18 1.137 29.45 5.54 5.35 0.19 0.796 79
844 12.5 10 111 0.00IP 4 -23.91 2.65 -26.56 0.000 0.00-23.91 5.37-29.57 0.000 79
839 15.1 121 104 27.08IP 3.15 3.06 0.10 1.137 0.00-23.91 5.64-29.55 0.000 79
M-2 15.2 121 104 27.10 PC0 3.19 3.07 0.04 1.137 30.26 6.35 6.45 -0.09 0.000 79
J5PI 16.2 96 102 26.94 P 3.03 3.22 -0.13 1.137 0.00-23.91 7.40-31.31 0.000 79
W8AI 19.1 128 97 27.46 PC0 3.55 3.68 -0.14 1.137 0.00-23.91 7.50-31.93 0.000 79
H5UI 22.4 155 95 28.00 P 4.09 4.23 0.21 0.284 32.08 8.17 8.04 0.13 0.000 79
M-1 22.8 143 95 28.70 P 4.79 4.29 0.30 -0.26 1.137 0.00-23.91 8.70-32.61 0.000 79
8PI 24.7 165 94 28.56 PC2 4.65 4.60 -0.19 1.137 0.00-23.91 9.91-33.82 0.000 79
L5GS 27.0 109 93 28.52 P 4.61 4.97 -0.34 1.137 0.00-23.91 25.77-49.67 0.000 79
LCRI 31.3 133 92 29.31 P 5.40 5.66 -0.07 1.137 0.00-23.91 27.98-51.09 0.000 79
86 47.1 129 91 31.93IP 8.02 8.21 -0.18 1.137 61.45 37.54 36.74 0.81 0.000 79
810 47.7 142 91 32.58IP 8.67 8.33 0.34 1.137 69.27 45.36 45.10 0.26 0.000 79
87 58.0 140 91 34.24IP 10.35 10.00 0.28 0.00-23.91 55.01-78.91 0.000 79
8PI 87.1 42 91 38.80 PC0 14.89 14.72 0.17 1.137 0.00-23.91 58.74-82.65 0.000 79
JCI 109.6 98 65 42.39 P 16.31 15.99 0.33 1.137 0.00 36.09 66.28 30.19 0.000 79
CIB 127.6 136 65 45.23 P 21.32 20.99 0.14 1.137 0.00 36.09 66.28 30.19 0.000 79
G8I 160.1 100 65 50.06 P 26.15 25.77 0.3800.000 0.00 36.09 66.28 30.19 0.000 79
TMI 199.1 121 50 55.42 P 31.51 31.43 0.0800.000 0.00 36.09 66.28 30.19 0.000 79
LWM 216.1 35 50 54.60 P 30.69 33.57 -2.87M0.000 0.00 36.09 66.28 30.19 0.000 79
IHW 250.6 99 50 2.54 P 38.63 37.87 0.76M0.000 0.00 36.09 66.28 30.19 0.000 79
45D 288.5 1 50 6.00 P 42.09 42.61 -0.52M0.000 0.00 36.09 66.28 30.19 0.000 79

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE MW M E Z SW SE
AVE. DF END POINTS -0.01 0.00 0.02 0.03 0.04 0.04 0.05

NUMBER RMS MIN DRMS AVE GRMS QUALITY
8 0.20 -0.03 0.02 0

83/10/30 8/24 BEGIN-----BEGIN-----83/10/30 8/24

HORIZONTAL SE = 1.18 SE = 2.73 VERTICAL SE = 1.78
AZ = -1. AZ = -91. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODM MF AVFM SODM
#31030 824 41.02 44N 8.08 113W58.27 6.13 3.62 14 10 202 1 0.20 2.7 1.8 0 C10 0.06 10 38 0.00 0.16 0 0.0 0.0 5 3.4 0.2
SE OF ORIG = 0.182 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AZM PSEC PRMK+TCOR=0-TT08-TTCAL-DELY= P-RES P-NT TMC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR XMAG R PMP PMAG
M-2 8.6 69 124 43.40 PC0 2.38 1.93 0.17 0.28 1.000 0.00-41.02 3.38-44.70 0.000
WSUI 9.6 16 121 42.90 P00 1.88 2.08 -0.20 1.000 0.00-41.02 3.64-44.66 0.000
MBAI 10.1 94 120 43.25 PC0 2.23 2.16 0.07 1.000 46.25 5.23 3.78 1.45 0.000
BSUI 10.3 154 119 43.20 PC0 2.18 2.19 -0.01 1.000 0.00-41.02 3.83-44.85 0.000
M-1 11.3 130 117 43.83 PC0 2.81 2.35 0.30 0.16 1.000 0.00-41.02 4.11-45.65 0.000
WSUI 12.0 15 115 43.20 P 0 2.18 2.47 -0.29 1.000 0.00-41.02 4.33-45.35 0.000
BRPI 12.9 173 114 43.79 P+0 2.77 2.61 0.16 1.000 0.00-41.02 4.57-45.59 0.000
OSPI 14.5 50 111 43.99 P 0 2.97 2.88 0.09 1.000 0.00-41.02 5.05-46.07 0.000
LCRI 20.7 120 105 44.61 P 0 3.59 3.92 -0.33 1.000 0.00-41.02 6.86-47.88 0.000
LSGS 20.7 84 105 44.92 PC0 3.90 3.94 -0.04 1.000 0.00-41.02 6.89-47.91 0.000
MPI 84.4 124 65 53.27 P 0 14.25 14.36 -0.11 1.000 0.00-41.02 25.13-66.15 0.000
BPM 92.7 35 65 57.10 P 0 16.08 15.69 0.39 1.000 0.00-41.02 27.46-68.48 0.000
JGI 103.7 93 65 58.36 P 0 17.34 17.49 -0.15 1.000 0.00-41.02 30.61-71.63 0.000
CIB 116.2 135 55 0.44 P00 19.42 19.45 -0.03 1.000 13.73 32.71 34.04 -1.33 0.000
GBI 153.6 96 55 5.95 P 0 24.93 24.96 -0.0300.000 0.00 18.98 43.68-24.69 0.000
TMI 189.4 119 55 10.80 P 0 29.78 30.22 -0.4400.000 0.00 18.98 52.88-33.90 0.000
LRM 222.6 33 44 15.00 P 0 33.98 34.56 -0.57M0.000 0.00 18.98 60.47-41.49 0.000
IMW 244.6 96 44 16.91 P 2 35.89 37.31 -1.42M0.000 0.00 18.98 65.30-46.32 0.000
MLI 278.2 147 44 23.94 P 0 42.92 41.51 1.41M0.000 0.00 18.98 72.65-53.67 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SW SE NE NW M
AVE. OF END POINTS 0.01 0.04 0.04 0.05 0.06 0.08 0.08

NUMBER RMS MIN DRMS AVE DRMS QUALITY

83/10/30 9/33 BEGIN-----BEGIN-----83/10/30 9/33

HORIZONTAL SE = 4.04 VERTICAL SE = 2.63 QUALITY = 8
AZ = 13. AZ = -77.

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERW ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODM NF AVFM SDFM
831030 933 10.76 4N15.37 114W 3.72 3.37 3.28 11 18 251 1 0.13 4.0 2.6 D C10 0.06 10 32 0.00 0.11 0 0.0 0.0 4 3.3 0.2
SE OF ORIG = 0.333 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYN DIST AZM AIM PSEC PRMKSTCDR=0-TT08-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
NSUI 10.6 100 105 12.95 P 0 2.19 2.05 0.14 1.000 0.00-10.76 3.59-14.35 0.000
WSUI 10.7 113 104 13.00 PC0 2.24 2.07 0.16 1.000 0.00-10.76 3.62-14.39 0.000
M-2 18.4 124 98 14.50 PC0 3.74 3.43 0.13 1.000 0.00-10.76 6.01-17.07 0.000
JSP1 18.9 103 98 14.14 P 0 3.38 3.51 -0.14 1.000 0.00-10.76 6.15-16.91 0.000
MBAI 22.3 129 97 14.75 P+0 3.99 4.13 -0.15 1.000 0.00-10.76 7.23-17.99 0.000
ASUI 25.6 153 96 15.40 P 0 4.64 4.71 -0.08 1.000 0.00-10.76 8.25-19.01 0.000
M-1 26.1 143 96 15.93 PC0 5.17 4.80 0.30 0.07 1.000 0.00-10.76 8.40-19.69 0.000
LSCS 30.0 112 95 16.02 P 0 5.26 5.50 -0.24 1.000 0.00-10.76 9.62-20.38 0.000
BPM 86.9 44 65 25.70 PC0 14.94 14.96 -0.02 1.000 0.00-10.76 26.18-36.94 0.000
MPI 98.2 128 65 27.65 PC0 16.89 16.80 0.09 1.000 40.57 29.81 29.39 0.41 0.000
JG1 112.2 99 65 29.87 PC0 19.11 19.07 0.03 1.000 0.00-10.76 33.38-44.14 0.000
C18 131.0 137 55 32.92 P 0 22.16 21.90 0.2500.000 50.13 39.37 38.33 1.04 0.000
GB1 162.8 101 55 37.53 P 0 26.77 26.58 0.1800.000 57.05 46.29 46.52 -0.24 0.000
THI 202.3 121 44 43.13 P 0 32.37 32.37 -0.0100.000 67.11 56.35 56.66 -0.31 0.000
LRM 215.5 36 44 43.90 P 0 33.14 34.02 -0.0800.000 0.00-10.76 59.54-70.30 0.000
IMW 253.2 99 44 50.43 P 0 39.67 38.74 0.9200.000 0.00-10.76 67.60-78.56 0.000
62 3.1 65 3.2 75 3.4 77 3.5

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE NW NE E N SW
AVE. OF END POINTS 0.05 0.07 0.07 0.10 0.12 0.13 0.13

NUMBER 6
RMS MIN ORMS AVE ORMS QUALITY
0.13 0.02 0.10 0

83/10/30 9/41 BEGIN-----BEGIN-----83/10/30 9/41

HORIZONTAL SE = 1.69 SE = 5.35 VERTICAL SE = 1.59
AZ = 10. AZ = -80. QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVNM SDXM MF AVPM SOFM
831030 9A1 33.35 44N12.30 114W 3.77 6.82 3.75 19 10 245 1 0.23 5.3 1.6 D 010 0.38 10 53 0.00 0.19 0 0.0 0.0 4 3.7 0.1
SE OF ORIG = 0.396 9 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (---- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK+TCOR-DTTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCAL S-RES S-WT ANX PR XMAG R FMP FMAG
014 8.7 135 127 35.481P 2.13 2.02 0.11 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
016 8.8 103 126 35.621P 2.27 2.04 0.23 1.000 -0.08 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
03 9.8 82 124 35.451P 2.10 2.21 -0.16 1.000 -0.03 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
45U1 10.0 82 123 35.40 P00 2.05 2.21 0.31 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
M2 16.0 107 112 37.00 P-0 3.65 3.17 0.17 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
03P1 18.5 85 109 36.84 P 3.49 3.60 0.02 1.000 0.18 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
M9A1 19.3 116 108 37.10 P-0 3.75 3.73 0.12 1.000 0.26 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
M5U1 20.8 145 65 37.50 P00 4.15 3.97 0.30 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
M1 21.9 133 65 37.93 P00 4.58 4.16 0.30 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
M9P1 22.4 157 65 37.85 P00 4.50 4.24 0.05 1.000 -0.33 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
L5G5 28.5 101 65 38.52 PC0 5.17 5.22 -0.38 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
LCRI 31.1 126 65 39.21 P 5.86 5.44 0.22 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
810 46.7 137 65 41.211P 7.86 8.19 -0.33 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
86 47.0 124 65 41.20EP 7.85 8.23 -0.38 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
88 50.0 141 65 41.701P 8.35 8.72 0.37 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
87 57.2 136 65 43.211P 9.86 9.88 0.30 1.000 -0.30 1.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
8PM 91.1 42 65 48.70 PC0 15.35 15.38 0.03 1.000 0.80M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
MPI 94.8 125 65 50.14 P 16.79 15.99 0.80M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
JGT 111.7 96 55 52.44 PC0 19.09 18.72 0.37 1.000 0.76M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
C18 126.9 135 55 55.07 P00 21.72 20.96 0.76M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
GB1 161.9 99 55 0.06 P00 26.71 26.10 0.61M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
TMT 199.4 120 44 5.28 P00 31.93 31.58 0.35M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
LHM 220.1 35 44 6.60 P00 33.25 34.16 -0.91M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
BUT 233.1 30 44 0.20 P 34.85 35.78 -0.93M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
LMH 252.5 98 44 12.74 P 39.39 38.20 1.19M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
MLT 288.8 147 44 18.75 P 45.40 42.75 2.65M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
MSD 291.8 2 44 15.00 P00 41.65 43.13 -1.48M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
SMH 311.5 46 44 18.60 P 45.25 45.98 -0.33C0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000
NCM 333.0 353 44 20.70 PC0 47.35 48.27 -0.92M0.000 0.00-33.35 3.87-37.22 0.000 0.00-33.35 4.17-37.52 0.000 0.00-33.35 5.55-39.20 0.000 0.00-33.35 6.29-39.64 0.008 0.00-33.35 6.53 -0.18 0.000 0.00-33.35 7.41-40.76 0.000 0.00-33.35 9.13-42.48 0.000 0.00-33.35 9.87-43.22 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE E NM NE M SM
AVE. OF END POINTS -0.06 -0.05 -0.02 0.02 0.03 0.03 0.05

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.23 -0.07 0.00 0

83/10/30 10/ 3 BEGIN-----BEGIN-----83/10/30 10/ 3

HORIZONTAL SE = 4.69 VERTICAL SE = 3.27
AZ = -118. AZ = -28. QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831030 10 3 9.32 43M57.35 113W42.51 12.43 7 21 291 1 0.07 4.7 3.3 0 DID 5.60 10 16 0.00 0.03 0 0.0 0 0.0 0 0.0 0.0
SE OF ORIG = 0.460 10 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
LCRI 10.0 342 138 12.11 PC0 2.79 2.78 0.01 1.120 0.00 -9.32 4.86-14.19 0.000
M-1 17.7 315 120 13.38 PC0 4.06 3.75 0.30 0.01 1.120 0.00 -9.32 6.56-16.41 0.000
BSU1 19.6 303 117 14.50 P-0 5.18 4.02 1.15M0.000 0.00 -9.32 7.04-16.36 0.000
BRPI 20.8 290 116 13.19 P-2 3.87 4.18 -0.32 0.280 0.00 -9.32 7.32-16.65 0.000
LSGS 22.1 359 114 13.72 PC0 4.40 4.37 0.02 1.120 0.00 -9.32 7.66-16.98 0.000
M6AI 22.2 330 114 13.76 PC0 4.38 4.38 -0.01 1.120 0.00 -9.32 7.67-16.99 0.000
M-2 26.4 330 109 14.60 PC0 5.28 5.04 0.06 1.120 0.00 -9.32 8.82-18.44 0.000
WSUI 34.5 328 104 15.60 PC0 6.28 6.29 -0.01 1.120 0.00 -9.32 11.00-20.32 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E N SE Z NW SW NE
AVE. OF END POINTS 0.06 0.07 0.09 0.14 0.16 0.20 0.23

NUMBER RMS MIN ORMS AVE ORMS QUALITY
7 0.07 0.04 0.14 0

83/10/30 -----10/38-----BEGIN-----BEGIN-----83/10/30 10/38

HORIZONTAL SE = 0.67 SE = 1.64 VERTICAL SE = 0.88
AZ = 4. AZ = -86. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVE AAR NM AVIM SDFM NF AVFM SDFM
831030 1038 4.94 44N 8.17 113W57.36 6.96 3.46 13 10 191 1 0.10 1.6 0.9 C 810 0.93 10 40 0.00 0.08 0 0.0 0.0 4 3.5 0.1
SE OF ORIG = 0.103 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
SYM DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTICAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
M-2 7.4 66 132 7.08 PC0 2.06 1.86 0.17 0.03 1.000 0.00 -4.94 3.26 -8.50 0.000
MBAI 8.9 95 127 7.05 P 0 2.11 2.07 0.04 1.000 0.00 -4.94 3.62 -8.56 0.000
WSUI 9.2 9 126 6.30 P-0 1.36 2.11 -0.75M0.000 0.00 -4.94 3.69 -8.63 0.000
83UI 10.0 161 124 7.01 P00 2.07 2.22 -0.15 1.000 0.00 -4.94 3.89 -8.83 0.000
M-1 10.5 135 122 7.63 PD0 2.69 2.30 0.30 0.09 1.000 0.00 -4.94 4.02 -9.48 0.000
NSUI 11.6 10 120 7.40 P 0 2.46 2.47 -0.01 1.000 0.00 -4.94 4.32 -9.26 0.000
BRPI 12.9 179 117 7.69 PD0 2.75 2.69 0.06 1.000 6.99 2.05 4.70 -2.65 0.000
DSPI 13.5 47 116 7.64 PC0 2.70 2.78 -0.08 1.000 0.00 -4.94 4.86 -9.80 0.000
LSGS 19.5 84 65 8.62 PC0 3.68 3.76 -0.08 1.000 0.00 -4.94 6.57 -11.51 0.000
LCRI 19.7 122 65 8.51 P00 3.57 3.79 -0.22 1.000 0.00 -4.94 6.63 -11.57 0.000
MPI 83.5 124 65 19.28 P 0 14.34 14.15 0.19 1.000 0.00 -4.94 24.76 -29.70 0.000
BPM 91.8 35 65 20.50 PC0 15.96 15.50 0.06 1.000 0.00 -4.94 27.12 -32.06 0.000
JGI 102.5 93 65 22.21 P 0 17.27 17.23 0.04 1.000 32.44 27.50 30.16 -2.66 0.000
CIB 115.5 135 55 24.21 P 0 19.27 19.26 0.01 1.000 37.28 32.34 33.70 -1.36 0.000
GBI 152.5 96 55 29.63 P 0 24.69 24.70 -0.01G0.000 0.00 -4.94 43.22 -48.16 0.000
TMI 188.4 119 55 34.53 PD0 29.59 29.99 -0.40G0.000 0.00 -4.94 52.48 -57.42 0.000
LRM 221.8 32 44 38.50 PD0 33.56 34.35 -0.79M0.000 0.00 -4.94 60.12 -65.06 0.000
IMW 243.4 96 44 42.16 P 0 37.22 37.06 0.16M0.000 0.00 -4.94 64.85 -69.79 0.000
MSO 299.3 0 44 47.70 P 0 42.76 44.04 -1.28M0.000 0.00 -4.94 77.07 -82.01 0.000
NCM 341.7 352 44 53.50 P 0 48.56 49.34 -0.78M0.000 0.00 -4.94 86.34 -91.28 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME Z SE N E NW SW
AVE. OF END POINTS 0.12 0.15 0.15 0.16 0.18 0.19 0.23
NUMBER RMS MIN DRMS AVE DRMS QUALITY N
4 0.10 0.07 0.16

HORIZONTAL SE = 0.75 SE = 1.35 VERTICAL SE = 1.59
AZ = -11. AZ = -101. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831030 1225 52.67 4N 6.85 113M55.62 8.81 3.55 22 7 119 1 0.18 1.4 1.6 8 818 0.33 10 49 0.00 0.14 0 0.0 0.0 5 3.5 0.2
SE OF ORIG = 0.107 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)																									
STN	DIST	AZM	AIM	PSEC	PRMK	TCOR	D-TT08	TTICAL	DELT	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TT08	TTICAL	S-RES	S-WT	ANX	PR	XMAG	R	FMP	PMAG
837	5.7	166	143	54.57EPD			1.90	1.88			0.02	1.028		0.00	-52.67	3.48	-56.15	0.000							
814	6.2	310	141	54.631PD			1.96	1.93			0.03	1.028		0.00	-52.67	3.48	-56.15	0.000							
MBAI	6.8	76	138	54.40 P 0			1.73	1.99			-0.26	1.028		0.00	-52.67	3.53	-56.50	0.000							
M-2	7.0	39	137	54.85 PC0			2.18	2.02	0.17		-0.01	1.028		0.00	-52.67	3.54	-56.21	0.000							
BSUI	7.0	172	137	54.40 PC0			1.73	2.02			-0.29	1.028		0.00	-52.67	3.54	-56.21	0.000							
M-1	7.1	134	137	54.88 P00			2.21	2.03	0.30		-0.12	1.028		0.00	-52.67	3.55	-56.74	0.000							
839	7.1	39	136	54.76EPD			2.09	2.03			0.06	1.028		56.26	3.59	3.55	0.04	0.720							
816	8.4	344	131	55.011PD			2.34	2.18			0.16	1.028		0.00	-52.67	4.32	-57.00	0.000							
8RPI	10.7	191	123	55.33 PC0			2.66	2.47			0.19	1.028		0.00	-52.67	4.53	-57.21	0.000							
MSUI	11.6	355	120	55.30 P00			2.63	2.59			0.04	1.028		0.00	-52.67	4.53	-57.21	0.000							
83	11.6	354	120	55.131P			2.46	2.59			-0.13	1.028		0.00	-52.67	5.13	-57.80	0.000							
USPI	13.9	33	114	55.39 P 0			2.72	2.93			-0.21	1.028		0.00	-52.67	5.13	-57.80	0.000							
MSUI	13.9	358	114	55.65 P00			2.98	2.93			0.05	1.028		0.00	-52.67	5.13	-57.80	0.000							
LCRI	16.4	119	109	55.95 P 0			3.28	3.31			-0.03	1.028		0.00	-52.67	5.79	-58.47	0.000							
LSGS	17.7	75	107	56.32 PC0			3.65	3.50			0.15	1.028		0.00	-52.67	6.12	-58.79	0.000							
810	32.0	140	96	58.631PD4			5.96	5.78			0.18	0.000													
86	32.4	121	96	58.351P			5.68	5.85			-0.17	1.028													
88	35.4	144	95	58.84EP			6.17	6.34			-0.17	1.028													
87	42.3	138	94	60.29EP			7.62	7.47	0.28		-0.13	1.028													
MPI	80.2	124	92	6.63 P 0			13.96	13.61			0.35	1.028		0.00	7.33	23.82	-16.49	0.000							72 3.2
8PM	92.6	32	91	8.90 PC0			16.23	15.62			0.61M0.000			0.00	7.33	27.33	-20.01	0.000							87 3.4
JGI	100.1	91	91	9.78 P 0			17.11	16.84			0.27	1.028		0.00	7.33	29.47	-22.14	0.000							91 3.5
CIB	112.1	135	65	12.07 P00			19.40	18.63			0.77M0.000			24.78	32.11	32.61	-0.50	0.000							100 3.7
GBI	149.9	95	65	17.46 P 0			24.79	24.19			0.59M0.000			0.00	7.33	42.34	-35.01	0.000							108 3.9
YMI	185.2	119	65	22.53 P 0			29.86	29.38			0.47M0.000			44.39	51.72	51.42	0.30	0.000							
LRM	222.7	32	50	27.50 P 0			34.83	36.27			0.56M0.000			0.00	7.33	59.97	-52.64	0.000							
NPI	246.8	152	50	32.15 P 0			39.48	37.28			2.19M0.000			0.00	7.33	65.25	-57.92	0.000							
HLI	274.4	148	50	36.10 PC0			43.43	40.73			2.69M0.000			0.00	7.33	71.28	-63.96	0.000							

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH																			
AVE. OF END POINTS																			

83/10/30 12/37 BEGIN-----BEGIN-----83/10/30 12/37

HORIZONTAL SE = 1.70 VERTICAL SE = 1.28
AZ = -81. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND 03 GAP M RMS ERM ER2 Q SDD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831030 1237 13.73 44N11.53 114W 0.60 6.00 11 12 233 1 0.08 1.7 1.3 C MID 0.05 10 28 0.00 0.06 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.117 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+YCDR-D-TD8-TICAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TICAL S-RES S-WT AMX PR XMAG R FMP FMAG
MSUT 6.4 63 132 15.20 P00 1.47 1.61 -0.13 1.000 0.00-13.73 2.01-16.54 0.000
MSUT 8.2 50 125 15.70 PC0 1.97 1.86 0.12 1.000 0.00-13.73 3.25-16.98 0.000
M-2 11.5 106 116 16.40 PC0 2.67 2.38 0.17 0.12 1.000 0.00-13.73 4.17-18.19 0.000
OSPI 14.5 78 111 16.54 P 0 2.81 2.88 -0.06 1.000 0.00-13.73 5.03-18.76 0.000
MBAL 14.9 118 110 16.70 P 0 2.97 2.94 0.04 1.000 19.00 5.27 5.14 0.13 0.000
BSUT 17.4 154 107 17.00 P+0 3.27 3.36 -0.08 1.000 0.00-13.73 5.08-19.60 0.000
M-1 18.0 139 107 17.43 PC0 3.70 3.46 0.30 -0.05 1.000 0.00-13.73 6.05-20.30 0.000
BRPI 19.7 166 105 17.55 PC0 3.82 3.75 0.07 1.000 18.65 4.92 6.57 -1.64 0.000
LSOS 24.0 100 103 18.22 PC0 4.49 4.50 -0.01 1.000 0.00-13.73 7.08-21.60 0.000
LCRI 26.8 129 101 18.71 P 0 4.98 4.99 0.00 1.000 0.00-13.73 8.73-22.45 0.000
APH 89.4 39 65 28.90 PC0 15.17 15.18 0.00 1.000 0.00-13.73 26.56-40.23 0.000
LRM 218.9 34 44 47.00 P00 33.27 34.12 -0.84M0.000 0.00-13.73 59.71-73.43 0.000
MSD 293.2 1 44 0.10 P 0 46.37 43.40 2.94M0.000 0.00 46.27 75.95-29.67 0.000
NCM 334.9 353 44 1.50 P00 47.77 48.62 -0.84M0.000 0.00 46.27 85.08-38.81 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z SE SW E M NE
AVE. OF END POINTS 0.07 0.10 0.12 0.14 0.15 0.17 0.18

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.08 0.05 0.14 0

HORIZONTAL SE = 2.26 VERTICAL SE = 1.11 QUALITY = A
SE = 0.82 AZ = 9. AZ = -81.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
831030 1254 0.25 4411.55 114W 0.59 5.48 3.46 14 12 233 1 0.12 2.3 1.1 C B10 0.55 10 48 0.00 0.10 0 0.0 0.0 3 3.5 0.1
SE OF ORIG = 0.163 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSC PMK+TCOR-O-TT0B-TTICAL-DELAY-EDLT= P-RES P-WT TMIC SSC SRMK TT0B TTICAL S-RES S-WT ANX PR RMAG R FMP FMAG
MSUI 6.3 63 129 2.00 PCO 1.75 1.54 0.00 -0.25 2.70 -2.95 0.000 0.00 -0.25 3.15 -3.40 0.000
MSUI 8.1 50 122 2.00 PCO 1.75 1.80 -0.05 1.000 0.14 1.000 0.00 -0.25 4.11 -4.65 0.000
M-2 11.6 106 114 2.90 PCO 2.65 2.35 0.17 -0.01 1.000 0.00 -0.25 4.97 -5.22 0.000
JSP1 14.5 78 109 3.08 P 2.83 2.84 -0.06 1.000 5.35 5.10 5.09 0.01 0.000
WAI 14.9 118 100 3.10 P 2.85 2.91 -0.08 1.000 0.00 -0.25 5.04 -6.09 0.000
BSUI 17.4 134 106 3.50 PCO 3.25 3.34 0.30 -0.10 1.000 0.00 -0.25 6.01 -6.78 0.000
M-1 18.0 139 105 3.88 PCO 3.63 3.43 0.07 1.000 0.00 -0.25 6.54 -6.78 0.000
BRPI 19.8 166 104 4.05 PCO 3.80 3.74 -0.01 1.000 0.00 -0.25 7.84 -8.09 0.000
LSGS 24.0 100 101 4.72 PCO 4.47 4.48 -0.22 1.000 0.00 -0.25 8.70 -8.95 0.000
LCRI 26.9 129 100 5.00 P 4.75 4.97 0.11 1.000 27.32 27.07 26.96 0.12 0.000
BPM 89.4 39 65 15.30 PCO 15.05 15.21 0.16 1.000 35.68 35.43 35.90 -0.46 0.000
MPI 90.6 126 65 15.76 PCO 15.51 15.40 0.00 1.000 0.00 -0.25 44.79 -45.04 0.000
JGI 107.3 96 65 10.37 P 18.12 10.12 0.16 1.000 55.24 54.99 54.51 0.48 0.000
CIB 123.0 136 55 20.92 P 20.67 20.51 0.3900 0.000 36.60 36.35 36.81 -23.46 0.000
WBI 157.5 90 55 25.95 P 25.70 25.59 0.1000 0.000 61.50 61.25 62.72 -1.47 0.000
TMI 195.3 120 55 31.01 P 30.76 31.15 -0.1300 0.000 0.00 -0.25 66.29 -66.54 0.000
LRM 210.9 34 44 33.30 P 33.05 34.18 2.7100 0.000 0.00 -0.25 68.27 -68.51 0.000
BUT 232.2 29 44 38.00 P 38.55 35.84 0.1000 0.000 0.00 -0.25 74.35 -74.60 0.000
IMW 248.5 90 44 38.03 P 37.78 37.88 -0.1000 0.000 0.00 -0.25 76.05 -76.30 0.000
MPI 257.5 132 44 40.35 P 40.10 39.01 1.0900 0.000 0.00 -0.25 79.63 -79.87 0.000
MLI 285.3 147 44 44.59 P 44.34 42.49 1.8600 0.000 0.00 -0.25 85.19 -85.44 0.000
MSO 293.1 1 44 41.70 PCO 41.45 43.46 -2.0100 0.000 0.00 -0.25 85.19 -85.44 0.000
SKM 304.5 45 44 45.50 P 45.25 45.50 -0.2500 0.000 0.00 -0.25 85.19 -85.44 0.000
NCM 334.9 353 44 47.90 P 47.65 48.60 -1.0300 0.000 0.00 -0.25 85.19 -85.44 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW N E Z SW SE NE
AVE. OF END POINTS 0.06 0.11 0.12 0.12 0.13 0.14 0.19
NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.12 0.03 0.13 D

83/10/30 13/14 BEGIN-----BEGIN-----83/10/30 13/14

HORIZONTAL SE = 1.12 SE = 3.70 VERTICAL SE = 1.57
AZ = 17. AZ = -73. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFM
831030 1314 44.15 44N11.98 114W 1.28 3.71 3.36 13 13 254 1 0.12 3.7 1.6 0 CID 0.20 10 40 0.00 0.09 0 0.0 0.0 5 3.4 0.2
SE OF ORIG = 0.299 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TT08-TTICAL-DELT-EOLV= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FHP FRAG
MSUI 6.9 73 115 45.70 P00 1.55 1.46 0.09 1.061 0.00-44.15 2.55-46.70 0.000
MSUI 6.4 58 111 45.81 P 0 1.66 1.71 -0.05 1.061 0.00-44.15 2.99-47.14 0.000
M-2 12.7 109 104 47.00 P00 2.85 2.43 0.25 1.061 0.00-44.15 4.25-48.70 0.000
DSPI 15.3 82 101 47.04 P 0 2.89 2.90 -0.01 1.061 0.00-44.15 5.07-49.22 0.000
MBAI 16.1 119 101 47.25 P00 3.10 3.04 0.06 1.061 0.00-44.15 5.32-49.47 0.000
3SU1 18.6 153 99 47.50 P-0 3.35 3.47 -0.12 1.061 0.00-44.15 6.07-50.23 0.000
M-1 19.2 139 99 47.98 P00 3.83 3.58 0.30 -0.06 1.061 0.00-44.15 6.27-50.95 0.000
BRPI 20.8 165 98 48.20 P72 4.05 3.86 0.19 0.265 0.00-44.15 6.75-50.90 0.000
LSGS 25.1 101 97 48.52 P 0 4.37 4.63 -0.26 1.061 0.00-44.15 8.10-52.25 0.000
LCRI 28.1 129 96 49.30 P 0 5.15 5.16 -0.01 1.061 0.00-44.15 9.02-53.18 0.000
MPI 91.8 126 65 59.97 P00 15.82 15.73 0.08 1.061 0.00-44.15 27.53-71.69 0.000
JGI 104.3 96 65 2.52 PC0 18.37 18.42 -0.05 1.061 0.00 15.85 32.23-16.38 0.000
CIB 124.2 136 55 5.07 P 0 20.92 20.87 0.04 1.061 21.35 37.20 36.52 0.67 0.000
GBI 158.6 99 55 10.04 PC0 25.89 25.93 -0.0400.000 0.00 15.85 45.37-29.53 0.000
TMI 196.3 120 55 15.28 PC0 31.13 31.47 -0.3500.000 40.05 55.90 55.08 0.82 0.000
LRM 218.7 34 44 16.80 PC0 32.65 34.39 -1.74M0.000 0.00 15.85 60.18-46.33 0.000
IMW 249.5 98 44 22.80 P 0 38.65 38.23 0.4100.000 0.00 15.85 66.91-51.06 0.000
NPI 258.7 152 44 25.07 P 0 40.92 39.38 1.54M0.000 0.00 15.85 68.91-53.07 0.000
MSO 292.3 1 44 25.20 P 0 41.05 43.59 -2.54M0.000 0.00 15.85 76.28-60.43 0.000
NCM 334.0 353 44 31.10 PC0 46.95 48.79 -1.85M0.000 0.00 15.85 85.39-69.54 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E Z NW SE SW NE M
AVE. OF ENO POINTS 0.08 0.11 0.12 0.12 0.15 0.18 0.20

NUMBER 6
RMS MIN ORMS AVE ORMS QUALITY
0.12 0.05 0.14 D

83/10/30 14/10 BEGIN-----BEGIN-----83/10/30 14/10

HORIZONTAL SE = 1.01 SE = 2.69 VERTICAL SE = 1.55
AZ = 10. AZ = -80. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
031030 1410 53.92 44N11.02 113W59.70 3.98 2.92 14 11 229 1 0.15 2.7 1.6 0 C10 0.22 10 34 0.00 0.13 0 0.0 0.0 3 2.9 0.2
SE OF ORIG = 0.194 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AZM PSEC PRMK+TCDR-D-TTDB-TTCAL-DELT-EOLV= P-RES P-WT THIC SSEC SRMK TTOM TTICAL S-RES S-WT AMX PR XMAG R FAP FMAG
WSUI 5.0 62 126 55.30 PD0 1.38 1.19 0.19 1.000 0.00-53.92 2.09-56.01 0.000
NSUI 6.9 47 118 55.55 PD0 1.63 1.47 0.16 1.000 0.00-53.92 2.57-56.49 0.000
M-2 10.6 111 108 56.25 PD0 2.33 2.09 0.07 1.000 0.00-53.92 3.65-57.87 0.000
DSPI 13.3 79 104 56.38 P 0 2.46 2.54 -0.08 1.000 0.00-53.92 4.45-58.37 0.000
MBAI 14.2 122 103 56.60 P-0 2.68 2.70 -0.01 1.000 0.00-53.92 4.72-58.64 0.000
BSUI 17.4 158 101 57.00 PC0 3.08 3.28 -0.20 1.000 0.00-53.92 5.73-59.65 0.000
M-1 17.7 143 100 57.54 PC0 3.62 3.32 0.00 1.000 0.00-53.92 5.81-60.25 0.000
BRPI 20.0 170 99 57.66 PC0 3.74 3.73 0.01 1.000 60.26 6.34 6.53 -0.19 0.000
LSGS 23.0 102 98 58.01 PD0 4.09 4.26 -0.17 1.000 0.00-53.92 7.45-61.37 0.000
LCRI 26.3 131 97 58.60 PC0 4.68 4.84 -0.16 1.000 0.00-53.92 8.47-62.39 0.000
BPM 88.3 39 65 8.80 PC0 14.88 15.14 -0.26 1.000 0.00 6.08 26.50-20.42 0.000
MPI 89.9 127 65 9.54 P 0 15.62 15.41 0.21 1.000 20.26 26.34 26.97 -0.63 0.000
JGI 106.2 96 65 11.97 PC0 18.05 18.05 0.00 1.000 24.22 30.30 31.59 -1.29 0.000
C10 122.5 136 55 14.75 P 0 20.83 20.60 0.23 1.000 29.05 35.13 36.04 -0.91 0.000
GBI 156.4 99 58 20.56 P 0 26.64 25.59 1.05M0.000 0.00 6.08 44.77-38.69 0.000
TMI 194.3 121 55 24.98 P 0 31.06 31.15 -0.09M0.000 0.00 6.08 54.52-48.44 0.000
LRM 217.8 34 44 26.90 PC0 32.98 34.24 -1.26M0.000 0.00 6.08 59.92-53.84 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW SW Z E N NE
AVE. OF END POINTS 0.04 0.07 0.07 0.08 0.08 0.09 0.13

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.15 -0.01 0.08 0

03/10/30 13/25 BEGIN-----BEGIN-----03/10/30 15/25

HORIZONTAL SE = 0.61 SE = 1.43 VERTICAL SE = 1.58
AZ = 5. AZ = -85. QUALITY = A

DATE ORIGIN LAT LDNG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQO ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
831030 1525 33.26 44W 8.50 113458.40 7.18 2.99 13 11 204 1 0.09 1.4 1.6 C 810 0.07 10 34 0.00 0.06 0 0.0 0.0 3 3.0 0.1
SE OF ORIG = 0.098 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-DTTOR-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
W-2 8.5 74 122 35.60 PCO 2.34 2.03 0.17 0.15 1.000 0.00-33.26 3.55-37.10 0.000
49AI 10.4 98 114 35.55 P 0 2.29 2.50 0.00 1.000 0.00-33.26 4.02-37.27 0.000
85UI 11.1 155 111 35.60 P00 2.34 2.40 -0.06 1.000 0.00-33.26 4.20-37.46 0.000
MSUI 11.4 17 110 35.71 PCO 2.45 2.44 0.01 1.000 0.00-33.26 4.27-37.53 0.000
W-1 11.9 132 108 36.04 P00 2.78 2.52 0.30 -0.03 1.000 0.00-33.26 4.41-38.19 0.000
BRPI 13.7 173 102 36.06 P00 2.80 2.79 -0.01 1.000 0.00-33.26 4.89-38.15 0.000
DSPI 14.2 53 100 36.03 P 0 2.77 2.89 -0.12 1.000 0.00-33.26 5.06-38.31 0.000
LSGS 20.8 86 92 37.21 PCO 3.95 3.96 -0.01 1.000 0.00-33.26 6.93-40.19 0.000
LCRI 21.2 122 91 37.10 PCO 3.84 4.02 -0.17 1.000 0.00-33.26 7.03-40.29 0.000
MPI 85.0 124 90 47.82 P00 14.56 14.39 0.18 1.000 56.30 23.04 25.18 -2.13 0.000
BPM 92.1 35 90 48.80 PCO 15.54 15.54 0.00 1.000 0.00-33.26 27.20-60.45 0.000
JCI 104.0 93 90 50.70 P 0 17.44 17.46 -0.02 1.000 61.70 28.44 30.56 -2.11 0.000
CIB 116.9 135 65 52.76 P00 19.50 19.45 0.06 1.000 0.00-33.26 34.04-67.29 0.000
GBI 153.9 96 65 58.22 P 0 24.96 24.89 0.0700-0.000 0.00-33.26 43.56-76.82 0.000
TMI 189.9 119 65 3.09 P 0 29.83 30.19 -0.3600-0.000 0.00 26.74 52.84-26.09 0.000
LRM 222.0 33 50 7.50 P 0 34.24 34.36 -0.1100-0.000 0.00 26.74 60.12-33.38 0.000
IMW 244.9 96 50 10.50 P 0 37.24 37.22 0.0300-0.000 0.00 26.74 65.13-38.38 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH I SE M NM SW E NE
AVE. OF END POINTS 0.10 0.16 0.19 0.19 0.20 0.21 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.09 0.07 0.19 D

83/10/30 16/19 BEGIN-----BEGIN-----83/10/30 16/19

HORIZONTAL SE = 1.23 SE = 3.23 VERTICAL SE = 2.24
AZ = 13. AZ = -77. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERI Q SQD ADJ IN MR AVR AAR MM AVXM SDXM MF AVFM SDFM
831030 1619 5.29 44N13.89 114W 1.03 3.10 3.39 12 15 234 1 0.14 3.2 2.2 0 CID 0.05 10 36 0.00 0.11 0 0.0 0.0 4 3.4 0.2
SE OF ORIG = 0.259 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PMK+TCOR-O-TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR XNAG R FMP FMAG
MSUI 6.9 83 111 6.91 PC0 1.62 1.41 0.21 1.164 0.00 -5.29 2.47 -7.75 0.000
M-2 13.9 123 100 8.15 P00 2.86 2.63 0.17 0.06 1.164 0.00 -5.29 4.60-10.19 0.000
JSPI 14.9 95 99 8.07 P00 2.78 2.80 -0.02 1.164 0.00 -5.29 4.90-10.19 0.000
MBAI 17.8 130 97 8.55 P00 3.26 3.32 -0.06 1.164 10.42 5.13 5.82 -0.68 0.000
3SUI 21.6 158 96 9.30 P 0 4.01 4.00 0.02 1.164 0.00 -5.29 6.99-12.28 0.000
M-1 21.8 146 96 10.15 P 3 4.86 4.82 0.54 0.073 0.00 -5.29 7.04-12.85 0.000
BRPI 24.1 168 95 9.82 PC2 4.53 4.43 0.10 0.291 12.42 7.13 7.76 -0.63 0.000
LSGS 25.7 109 95 9.41 P 0 4.52 4.72 -0.20 1.164 0.00 -5.29 8.26-13.55 0.000
LCRI 30.2 134 94 10.60 P 0 5.31 5.51 -0.20 1.164 0.00 -5.29 9.65-14.94 0.000
BPM 86.5 41 65 20.10 PC0 14.81 14.92 0.00 -5.29 26.10-31.39 0.000
MPI 93.7 128 65 21.53 P00 16.24 16.08 0.16 1.164 35.13 29.84 28.14 1.70 0.000
JGI 108.2 98 65 23.80 P 0 18.51 18.45 0.06 1.164 37.65 32.36 32.29 0.07 0.000
CIB 126.5 137 55 26.99 P 0 21.70 21.27 0.4300.000 43.40 38.11 37.23 0.89 0.000
GHI 158.8 100 55 31.58 P 0 26.29 26.02 0.2700.000 50.87 45.58 45.54 0.05 0.000
TMI 197.8 121 55 37.10 P 0 31.81 31.76 0.0600.000 0.00 -5.29 55.58-60.86 0.000
LRM 215.6 35 44 38.10 P 0 32.81 34.08 -1.27M0.000 0.00 -5.29 59.64-64.93 0.000
IMW 249.3 99 44 43.67 P 2 38.38 38.28 0.1000.000 0.00 -5.29 66.99-72.28 0.000
NPI 261.6 152 44 46.49 P 2 41.20 39.83 1.38M0.000 0.00 -5.29 69.70-74.98 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE NW NE SW N E
AVE. OF ENO POINTS 0.04 0.06 0.08 0.14 0.14 0.15 0.15

. NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.14 0.06 0.12 0

-----END-----END-----END-----END-----

93/10/30 16/38 BEGIN-----BEGIN-----83/10/30 16/38

HORIZONTAL SE = 0.38 SE = 0.74 VERTICAL SE = 0.87
AZ = -23. AZ = -113. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR MM AVMM SDMM MF AVFM SDFM
831030 1638 7.24 44N 2.96 113W52.88 8.21 2.59 19 3 98 1 0.09 0.7 0.9 8 A18 0.07 10 32 0.00 0.07 0 0.0 0.0 3 2.6 0.2
SE OF ORIG = 0.052 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-OTTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TIOB TTCAL S-RES S-WT ANX PR XHAG R FMP FMAQ
M-1 2.7 33 160 8.95 PCO 1.71 1.56 0.30 -0.14 1.095 0.00 -7.24 2.72-10.48 0.000 92
ASU1 2.7 275 160 8.90 PCO 1.56 1.56 0.01 1.095 0.00 -7.24 2.72 -9.96 0.000 92
837 2.8 307 159 8.95IP 1.61 1.56 0.05 1.095 9.94 2.70 2.74 -0.03 0.767 92
8MPI 6.6 240 136 9.22 PCO 1.98 1.90 0.09 1.095 0.00 -7.24 3.32-10.55 0.000 92
48AI 9.3 18 125 9.49 P00 2.25 2.53 0.02 1.095 0.00 -7.24 3.91-11.14 0.000 92
LCRI 10.7 95 120 9.80 P 0 2.56 2.42 0.14 1.095 0.00 -7.24 4.24-11.48 0.000 92
M-2 12.7 4 114 10.10 P 0 2.86 2.70 0.17 -0.01 1.095 0.00 -7.24 4.73-12.27 0.000 92
839 12.8 4 114 10.11IP 2.87 2.72 0.15 1.095 11.97 4.73 4.77 -0.03 0.767 92
814 14.0 323 111 10.00IP0 2.76 2.90 -0.13 1.095 92
816 16.4 339 105 10.55IP 3.31 3.28 0.04 1.095 92
L5G5 17.8 49 103 10.71 P00 3.47 3.50 -0.03 1.095 92
05PI 19.2 12 101 10.91 P00 3.67 3.72 -0.05 1.095 92
83 19.3 346 101 10.90IP0 3.66 3.74 -0.07 1.095 92
MSUI 21.5 349 99 11.08 P-2 4.44 4.08 0.37 0.274 13.70 6.46 6.54 -0.08 0.000 92
810 24.2 135 97 11.74IP0 4.50 4.53 -0.02 1.095 92
346 24.7 134 96 0.00IP 4 -7.24 4.61 -11.84 0.000 15.25 8.01 8.06 -0.05 0.767 92
88 27.4 142 95 12.24IP 5.00 5.05 -0.04 1.095 92
87 34.7 134 93 14.08IP 4 6.84 6.22 0.26 0.35 0.000 49.91 42.67 10.88 31.31 0.000 92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE SW Z N NE NW E
AVE. OF END POINTS 0.12 0.12 0.12 0.18 0.18 0.20 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.09 0.08 0.17 0

83/10/30 17/38 BEGIN-----BEGIN-----83/10/30 17/38

HORIZONTAL SE = 1.87 SE = 6.99 VERTICAL SE = 2.19 QUALITY = C
AZ = 3. AZ = -87.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM ME AVFM SDFM
831030 1738 46.26 44N12.52 114W 6.23 6.14 3.23 11 19 264 1 0.17 7.0 2.2 0 010 0.07 10 34 0.00 0.14 0 0.0 0.0 5 3.2 0.2
SE OF ORIG = 0.561 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRK+TCOR-D-TTDB-TICAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
WSUI 13.2 85 113 49.15 P00 2.89 2.83 -0.23 1.000 0.00-46.26 4.67-50.92 0.000
MSUI 14.2 76 112 49.01 P00 2.75 2.83 0.00-46.26 4.94-51.20 0.000
M-2 19.3 105 106 50.20 P 0 3.94 3.68 0.09 1.000 0.00-46.26 6.45-53.00 0.000
USPI 21.8 87 104 50.13 P 0 3.87 4.12 -0.24 1.000 0.00-46.26 7.20-53.46 0.000
WBAI 22.5 113 104 50.45 P 0 4.19 4.24 -0.05 1.000 0.00-46.26 7.42-53.68 0.000
BSUI 23.1 139 103 50.39 P00 4.13 4.35 -0.22 1.000 0.00-46.26 7.61-53.87 0.000
M-1 24.7 129 103 51.45 PC0 5.19 4.62 0.27 1.000 0.00-46.26 8.03-54.87 0.000
LSGS 31.8 101 65 51.91 P 0 5.65 5.81 -0.15 1.000 0.00-46.26 10.10-56.42 0.000
LCRI 34.0 123 65 52.40 PC0 6.14 6.17 -0.03 1.000 0.00-46.26 10.80-57.06 0.000
RPM 93.0 43 65 2.00 PC0 15.74 15.74 0.00 1.000 0.00 13.74 27.55-13.81 0.000
MPI 97.8 124 65 3.53 P 0 17.27 16.52 0.75M0.000 15.77 29.51 28.91 0.60 0.000
JGI 114.8 96 55 5.08 PC0 19.42 19.24 0.18 1.000 0.00 13.74 33.68-19.94 0.000
CIB 129.6 134 55 8.35 P-0 22.09 21.42 0.67M0.000 0.00 13.74 37.49-23.74 0.000
GBI 165.2 99 55 13.75 PC0 27.49 26.66 0.83M0.000 0.00 13.74 46.66-32.91 0.000
TMI 202.5 120 44 18.08 PC0 32.42 32.05 0.3700.000 0.00 13.74 56.08-42.34 0.000
LRM 221.7 36 44 19.90 P 0 33.64 34.44 -0.80M0.000 0.00 13.74 60.28-46.53 0.000
IMW 255.8 98 44 26.43 P 0 40.17 38.71 1.47M0.000 0.00 13.74 67.73-53.99 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH MN ME E SW Z SE N
AVE. OF END POINTS 0.01 0.06 0.06 0.07 0.08 0.12 0.12

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.17 -0.04 0.07 0

83/10/30 17/41 BEGIN-----BEGIN-----83/10/30 17/41

HORIZONTAL SE = 1.00 SE = 2.12 VERTICAL SE = 1.65
AZ = 1. AZ = -89. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SOKM MF AVFM SOFM
831030 1701 7.82 44M 9.80 113M57.30 4.81 3.09 14 9 193 1 0.18 2.1 1.6 C MID 0.08 10 36 0.00 0.15 0 0.0 0.0 4 3.1 0.1
SE OF ORIG = 0.138 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)
SPM DIST AZM AIM PSEC PRMK+TCOR-D-TOTR-TICAL-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TTDB YTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
WSUI 6.2 12 126 9.45 P00 1.63 1.95 0.18 1.000 0.00 -7.82 2.54-10.35 0.000
M-2 6.7 90 124 9.80 P00 1.98 1.52 0.29 1.000 0.00 -7.82 2.60-10.77 0.000
MSUI 8.6 12 117 9.52 P00 1.70 1.81 -0.11 1.000 0.00 -7.82 3.17-10.99 0.000
MBAI 9.6 113 115 9.45 P 0 1.63 1.98 -0.34 1.000 0.00 -7.82 3.46-11.27 0.000
SBPI 11.6 58 110 10.18 P 0 2.36 2.31 0.05 1.000 12.13 4.31 4.04 0.27 0.000
M-1 12.7 145 109 10.75 P00 2.93 2.50 0.13 1.000 0.00 -7.82 4.38-12.72 0.000
BSUI 12.9 165 108 10.20 P 0 2.38 2.52 -0.14 1.000 0.00 -7.82 4.41-12.23 0.000
BRPI 16.0 179 105 10.82 P-0 3.00 3.05 -0.05 1.000 13.52 5.70 5.34 0.36 0.000
LSGS 19.3 93 102 11.41 PCO 3.59 3.63 -0.04 1.000 0.00 -7.82 6.35-14.17 0.000
LCRI 21.4 129 101 11.70 P00 3.88 3.99 -0.11 1.000 0.00 -7.82 6.98-14.80 0.000
MPI 85.2 126 65 22.69 P 0 14.87 14.58 0.29 1.000 0.00 -7.82 25.52-33.34 0.000
BPM 89.3 36 65 22.90 PCO 15.08 15.25 -0.17 1.000 0.00 -7.82 26.69-34.51 0.000
JCI 102.6 94 65 25.14 P 0 17.32 17.41 -0.09 1.000 0.00 -7.82 30.47-38.29 0.000
CTI 117.6 136 55 27.70 P 0 19.88 19.79 0.10 1.000 0.00 -7.82 34.62-42.44 0.000
GRI 152.7 97 55 32.85 P 0 25.03 24.96 0.0700 0.00 0.00 -7.82 43.68-51.49 0.000
TMI 189.9 120 55 37.94 P 0 30.12 30.42 -0.2900 0.00 0.00 -7.82 53.23-61.05 0.000
LMI 219.2 33 44 40.80 P 0 32.98 34.30 -1.32M0-0.00 0.00 -7.82 60.03-67.85 0.000
IMW 243.7 97 44 45.81 P 0 37.99 37.37 0.62M0-0.00 0.00 -7.82 65.39-73.21 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE SW SE N NW W Z E
AVE. OF END POINTS -0.03 0.02 0.04 0.04 0.05 0.06 0.14

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.18 -0.07 0.05 D

83/10/30 17/49 BEGIN-----BEGIN-----83/10/30 17/49

HORIZONTAL SE = 0.69 SE = 1.08 VERTICAL SE = 1.52
AZ = -14. AZ = -104. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SDFM
831030 1749 20.31 44N 8.40 113452.18 3.34 3.23 23 3 70 1 0.21 1.1 1.5 8 81A 0.42 10 61 0.00 0.18 0 0.0 0.0 7 3.2 0.4
SE OF ORIG = 0.066 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AIM AIM PSEC PRMK+TCOR-O-TTIB-TTCAL-DELAY-EOLY- P-RES P-WT THIC SSEC SRMK TT08 TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
MBA1 2.3 122 144 21.05 P 0 0.74 0.76 -0.02 1.027 22.05 2.34 1.34 1.01 0.000 95
M-2 2.6 357 141 21.30 P00 0.99 0.79 0.17 0.03 1.027 0.00-20.31 1.39-21.99 0.000 95
839 2.7 357 139 21.19EPC 0.88 0.81 0.08 1.027 22.09 1.78 1.41 0.37 0.719 95
M-1 7.9 176 110 22.35 P00 2.04 1.59 0.30 0.16 1.027 0.00-20.31 2.78-23.61 0.000 95
837 9.0 201 107 22.22EP 1.91 1.78 0.14 1.027 24.05 3.74 3.11 0.64 0.000 95
OSPI 9.3 19 107 21.93 P 0 1.62 1.82 -0.20 1.027 0.00-20.31 3.19-23.50 0.000 95
814 9.4 277 106 22.00IPC 1.69 1.84 -0.15 1.027 0.00-20.31 3.50-23.80 0.000 95
MSUI 10.3 327 105 22.20 P00 1.89 2.00 -0.10 1.027 0.00-20.31 3.50-23.80 0.000 95
83 10.4 326 105 22.08IPD 1.77 2.01 -0.24 1.027 0.00-20.31 3.50-23.80 0.000 95
35U1 10.5 200 105 22.50 P00 2.19 2.03 0.16 1.027 0.00-20.31 3.50-23.80 0.000 95
MSUI 12.1 336 103 22.52 P 0 2.21 2.31 -0.09 1.027 0.00-20.31 4.04-24.35 0.000 95
LSGS 12.6 82 102 22.81 P 0 2.50 2.39 0.11 1.027 0.00-20.31 4.19-24.50 0.000 95
LCRI 14.7 138 100 23.05 PC0 2.74 2.77 -0.03 1.027 0.00-20.31 4.85-25.15 0.000 95
ARPI 14.9 204 100 23.42 PC0 3.11 2.81 0.30 1.027 0.00-20.31 4.93-25.23 0.000 95
811 22.5 168 96 24.46IPD 4.15 4.16 -0.01 1.027 0.00-20.31 4.93-25.23 0.000 95
86 30.3 130 95 25.44EPC 5.13 5.54 -0.41 1.027 30.39 10.08 10.25 -0.16 0.719 95
810 31.7 149 94 25.75IP 5.44 5.79 -0.34 1.027 95 90 3.2 95
846 32.1 149 94 0.00IP 4 -20.31 5.86 -0.25 1.027 95
88 35.5 153 94 26.52IP 6.21 6.46 -0.25 1.027 95
87 41.7 145 93 28.05EP04 7.74 7.57 0.28 0.00-20.31 23.71-44.02 0.000 95
MPI 78.2 128 65 34.14 P00 13.85 13.55 0.30 1.027 0.00-20.31 26.44-46.75 0.000 95
8PM 07.8 31 65 35.50 P 0 15.19 15.11 0.09 1.027 0.00-20.31 28.60-48.99 0.000 95
JGI 95.7 93 65 37.04 P00 16.73 16.39 0.34 1.027 0.00-20.31 33.03-53.34 0.000 95
C18 111.0 138 65 39.76 PC0 19.45 18.08 0.58M0-000 0.00-20.31 42.11-62.42 0.000 95
G81 145.6 97 55 44.88 P00 24.57 24.06 0.51M0-000 0.00-20.31 51.63-71.93 0.000 95
TMI 182.6 121 55 50.05 P00 29.74 29.50 0.2400-000 0.00-20.31 51.63-71.93 0.000 95
LRM 217.9 31 44 54.30 P00 33.99 34.32 -0.3300-000 83.20 42.89 63.21 -0.31 0.000 95
8UT 232.2 26 44 56.10 P 0 35.79 36.12 -0.3200-000 0.00-20.31 64.17-84.48 0.000 95
IMM 236.6 97 44 58.46 P 0 38.15 36.87 1.48M0-000 0.00 39.69 66.49-26.80 0.000 95
MPI 247.2 154 44 8.07 P 0 39.76 37.99 1.77M0-000 0.00 39.69 72.43-32.74 0.000 95
MLI 274.4 149 44 3.99 P 0 43.68 41.39 2.29M0-000 0.00 39.69 77.80-38.10 0.000 95
MSD 298.9 359 44 3.90 P 0 43.59 44.46 -0.86M0-000 46.70 86.39 79.39 1.00 0.000 95
SYM 306.2 43 44 5.80 P 0 45.49 45.37 0.1200-000 0.00 39.69 87.28-47.58 0.000 95
MCM 342.2 351 44 9.90 P 0 49.59 49.87 -0.2800-000 95

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NE SE NW Z E SW
AVE. OF END POINTS 0.03 0.03 0.04 0.05 0.06 0.07 0.09

NUMBER RMS MIN ORMS AVE ORMS QUALITY
9 0.21 -0.04 0.05 0

83/10/30 19/23 BEGIN-----BEGIN-----83/10/30 19/23

HORIZONTAL SE = 2.26 SE = 6.71 VERTICAL SE = 5.71
AZ = 11. AZ = -79. QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVNM SDNM NF AVFM SDFM
831030 1923 41.95 4N14.74 114M 4.91 7.44 3.92 9 20 247 1 0.19 6.7 5.7 D DID 0.30 10 50 0.00 0.15 0 0.0 0.0 7 3.9 0.5
SE OF ORIG = 0.486 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR X MAG R FMP FMAG
4SUI 11.8 105 111 43.90 P 2 1.95 2.53 -0.59M0.000 0.00-41.95 4.48-46.43 0.000 0.00 18.05 33.16-15.12 0.000 102 3.9
NSUI 12.0 93 110 44.63 P 0 2.68 2.56 0.12 1.091 0.00-41.95 6.46-48.71 0.000 0.00 18.05 33.16-15.12 0.000 107 4.1
M-2 19.2 119 95 45.80 PCO 3.85 3.69 0.17 -0.02 1.091 0.00-41.95 9.86-51.82 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
DSPI 20.2 99 94 45.43 P 0 3.48 3.86 -0.38 1.091 0.00-41.95 26.25-68.20 0.000 0.00 18.05 33.16-15.12 0.000 107 3.6
4SUI 25.4 148 92 46.41 P 2 4.46 4.71 -0.26 0.273 0.00-41.95 29.07-71.03 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
M-1 26.2 130 92 47.25 P 0 5.30 4.84 0.30 0.15 1.091 0.00-41.95 8.48-50.96 0.000 0.00 18.05 33.16-15.12 0.000 107 3.5
8RPI 27.2 158 92 46.00 P 0 4.85 5.00 -0.15 1.091 0.00-41.95 9.86-51.82 0.000 0.00 18.05 33.16-15.12 0.000 107 3.5
LSGS 31.1 109 91 47.01 P 0 5.06 5.64 -0.58M0.000 0.05 1.091 0.00-41.95 26.25-68.20 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
8PM 88.8 44 90 57.00 PCO 15.05 15.00 0.28 1.091 0.00-41.95 29.07-71.03 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
MPI 98.7 127 90 58.85 P 0 16.90 16.61 0.02 1.091 0.00-41.95 29.07-71.03 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
JGI 113.6 99 65 0.92 P 0 18.97 18.95 0.46M0.000 20.56 38.61 37.70 0.90 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
CIB 131.2 136 65 3.96 P 0 22.01 21.54 0.17M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
GRI 164.2 100 65 8.51 P 0 26.56 26.39 0.17M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
TIO 170.3 241 65 10.49 PCO 28.54 27.28 1.25M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
CPI 182.5 257 65 11.59 PCO 29.64 29.09 0.55M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
CMI 198.4 81 50 13.60 P 0 31.65 31.38 0.26M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
TMI 203.1 121 50 14.00 P 0 32.05 31.96 0.08M0.000 38.52 56.57 55.93 0.43 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
KCI 204.2 108 50 14.30 P 0 32.35 32.11 0.24M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
LRM 217.3 36 50 15.40 P 0 33.45 33.74 -0.30M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
8UT 229.9 31 50 19.90 P 4 37.95 35.32 2.62 0.000 42.90 60.95 61.81 -0.87 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
MPI 239.6 244 50 19.09 PCO 37.14 36.53 0.61M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
IMW 254.6 99 50 21.20 P 2 39.25 38.41 0.84M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
MPI 265.5 151 50 23.78 P 0 41.03 39.77 2.06M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
MSO 287.4 2 50 23.10 P 0 41.15 42.50 -1.35M0.000 55.60 73.65 74.37 -0.73 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
SRM 309.4 47 50 23.20 P 0 41.25 45.26 -4.01M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8
NCM 328.3 353 50 29.20 P 0 47.25 47.62 -0.38M0.000 0.00 18.05 33.16-15.12 0.000 0.00 18.05 33.16-15.12 0.000 107 3.8

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE 2 SE E SW N NW
AVE. OF END POINTS -0.07 -0.05 -0.01 0.02 0.03 0.09 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.19 -0.13 0.02 0

83/10/30 21/ 6 BEGIN-----BEGIN-----83/10/30 21/ 6

HORIZONTAL SE = 0.94 VERTICAL SE = 1.48 QUALITY = A
AZ = -12. AZ = -102.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SDO ADJ IN NR AVR AAR NM AVXM SDOX NF AVFM SDFM
831030 21 6 10.43 44W 8.54 113W55.71 2.95 3.23 15 8 121 1 0.13 0.9 1.5 8 818 0.19 10 40 0.00 0.11 0 0.0 0.0 5 3.2 0.2
SE OF ORIG = 0.058 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYN DIST AZM AIM PSEC PRMKTCDR-O-TYTOB-TTCAL-DELY-EDLY= P-RES P-WT THIC SSEC SRMK TYOB TYCAL S-RES S-WT AMX PR KMAG R PMP PMAG
M-2 5.1 63 116 11.90 P00 1.47 1.11 0.17 0.19 1.000 0.00-10.43 1.94-12.67 0.000
MBI 6.8 102 110 11.94 P 0 1.51 1.39 0.12 1.000 0.00-10.43 2.44-12.87 0.000
AMPI 8.0 309 107 11.99 P 0 1.56 1.59 -0.03 1.000 0.00-10.43 2.78-13.21 0.000
MSUI 8.4 354 106 12.00 P00 1.57 1.66 -0.09 1.000 0.00-10.43 2.91-13.34 0.000
M-1 9.6 147 104 12.75 PC0 2.32 1.86 0.30 0.16 1.000 0.00-10.43 3.26-14.22 0.000
ASUI 10.2 174 103 12.30 P00 1.87 1.96 -0.09 1.000 0.00-10.43 3.42-13.86 0.000
NSUI 10.8 359 102 12.54 P00 2.11 2.07 0.03 1.000 0.00-10.43 3.63-14.06 0.000
DSPI 11.5 42 101 12.49 P 0 2.06 2.20 -0.14 1.000 0.00-10.43 3.85-14.28 0.000
ARPI 13.8 188 99 13.11 P 0 2.68 2.60 0.08 1.000 14.41 3.98 4.55 -0.57 0.000
LSGS 17.3 85 97 13.51 P 0 3.08 3.22 -0.14 1.000 0.00-10.43 5.63-16.06 0.000
LCRI 18.3 128 97 13.60 P00 3.17 3.40 -0.23 1.000 0.00-10.43 5.95-16.38 0.000
MPI 82.1 126 65 24.54 P 0 14.11 14.22 -0.11 1.000 0.00-10.43 24.89-35.32 0.000
BPM 98.0 34 65 26.10 PC0 15.67 15.51 -0.02 1.000 0.00-10.43 27.14-37.57 0.000
JGI 100.4 93 65 27.60 P 0 17.17 17.18 0.12 1.000 0.00-10.43 30.07-40.51 0.000
CIB 114.4 136 65 30.01 P00 19.58 19.46 0.13000.000 44.85 34.42 34.06 0.36 0.000
GBI 150.3 97 55 35.36 P 0 24.93 24.80 0.13000.000 0.00-10.43 43.39-53.82 0.000
TMI 186.8 120 55 40.25 P 0 29.82 30.16 -0.3400.000 0.00-10.43 52.79-63.22 0.000
LRM 220.0 32 44 44.50 PC0 34.07 34.65 -0.5800.000 0.00-10.43 60.64-71.07 0.000
MPI 249.6 153 44 49.72 P 0 39.29 38.34 0.9500.000 0.00-10.43 67.10-77.53 0.000
MLI 277.1 148 44 53.57 P 2 43.14 41.78 1.3600.000 0.00-10.43 73.11-83.55 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE NE NW E SW
AVE. OF END POINTS 0.04 0.08 0.08 0.10 0.14 0.17 0.18

NUMBER 6 RMS MIN RMS AVE RMS QUALITY
0.13 0.06 0.12 0

83/10/30 21/57 BEGIN-----BEGIN-----83/10/30 21/57

HORIZONTAL SE = 1.39 VERTICAL SE = 1.63
AZ = -24. AZ = -114. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVKM SDHM NF AVFM SDFM
031030 2157 0-31 4N13.44 114W 4.89 7.04 2.72 25 11 100 1 0.15 1.4 1.6 C 010 0.09 10 57 0.00 0.13 0 0.0 0.0 14 2.7 0.6
SE OF ORIG = 0.005 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR=0 TT08-TTCL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR XMAG R FMP FMAG
ANP1 7.2 124 127 10.29 P 0 1.98 1.84 0.15 1.025 0.00 -8.31 3.22-11.52 0.000 2
017 6.5 343 121 10.731PC 1.99 2.01 -0.02 1.025 11.83 3.52 3.52 0.00 0.717 2 31 2.2
016 10.9 112 110 10.31PC 2.42 2.36 0.06 1.025 12.45 4.14 4.14 0.01 0.717 2 44 2.5
43 11.2 94 109 10.841PC 2.53 2.41 0.13 1.025 13.01 4.70 4.21 0.49 0.000 2 27 2.1
014 11.2 137 109 10.731PC 2.42 2.41 0.01 1.025 12.49 4.18 4.22 -0.04 0.000 2 38 2.4
WSUI 11.4 93 108 10.60 PCO 2.29 2.44 -0.14 1.025 0.00 -8.31 4.26-12.57 0.000 2
MSUI 12.1 82 105 10.88 P00 2.57 2.55 0.02 1.025 0.00 -8.31 4.47-12.77 0.000 2
M-2 18.1 112 91 11.90 PCO 3.59 3.53 0.17 -0.10 1.025 0.00 -8.31 6.17-14.77 0.000 2
DSPI 20.0 92 90 11.99 PCO 3.68 3.61 -0.13 1.025 0.00 -8.31 6.67-14.98 0.000 2
01 20.0 6 90 11.921PC 3.61 3.81 -0.20 1.025 14.72 6.41 6.67 -0.26 0.000 2 31 2.2
08A1 21.6 119 90 12.40 PCO 4.09 4.08 0.01 1.025 0.00 -8.31 7.15-15.45 0.000 2
M-1 24.5 135 90 13.06 PCO 4.75 4.56 0.30 -0.11 1.025 0.00 -8.31 7.98-16.81 0.000 2
BRPI 25.0 155 90 13.07 P00 4.76 4.64 0.13 1.025 16.07 7.76 8.11 -0.35 0.000 2
LSGS 30.4 105 90 13.61 PCO 5.30 5.52 -0.22 1.025 0.00 -8.31 9.66-17.96 0.000 2
LCRI 33.5 127 90 14.15 PCO 5.84 6.03 -0.18 1.025 0.00 -8.31 10.55-18.86 0.000 2
011 38.2 145 90 15.251PC 6.94 6.78 0.16 1.025 21.40 13.09 15.03 -1.94 0.000 2 29 2.2
010 49.3 138 90 16.941PC 8.63 8.59 0.04 1.025 23.91 15.60 15.07 0.54 0.000 2 42 2.6
06 49.4 125 90 16.681PC 8.37 8.61 -0.24 1.025 18.54 10.23 15.97 -5.74 0.000 2 31 2.3
08 52.6 141 90 17.391PC 9.08 9.13 -0.04 1.025 20.36 12.05 17.99 -6.43 0.000 2 52 2.8
07 59.7 137 90 18.711PC 10.40 10.28 0.28 -0.16 1.025 20.36 12.05 17.99 -6.43 0.000 2 28 2.3
0PM 90.5 43 90 23.90 PCO 15.59 15.28 0.31 1.025 34.09 25.78 28.66 -2.88 0.000 2 94 3.5
MPI 91.3 126 90 24.95 PCO 16.64 16.38 0.27 1.025 40.07 31.76 33.12 -1.35 0.000 2 97 3.5
JGI 113.2 97 65 27.47 P 0 19.16 18.92 0.24 1.025 0.00 -8.31 37.30-45.61 0.000 2 105 3.7
CIB 129.5 135 65 30.10 P00 21.79 21.32 0.4800 0.000 0.00 -8.31 46.11-54.42 0.000 2 100 3.8
GBI 163.7 99 65 35.26 P 0 26.95 26.35 0.60M0 0.000 0.00 -8.31 55.73-64.04 0.000 2
TMI 201.8 120 50 40.34 P00 32.03 31.85 0.1900 0.000 0.00 -8.31 59.55-67.85 0.000 2
LRM 219.3 36 50 41.80 PCO 33.49 34.03 -0.53M0 0.000 0.00 -8.31 67.20-75.50 0.000 2
IMW 254.2 98 50 47.66 P 0 39.35 38.40 0.95M0 0.000 0.00 -8.31 69.20-77.51 0.000 2
MPI 263.4 151 50 49.84 P 0 41.53 39.54 1.99M0 0.000 0.00 -8.31 69.20-77.51 0.000 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH MW E N SE Z NE SW
AVE. OF END POINTS 0.04 0.09 0.10 0.11 0.11 0.13 0.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 8.15 -0.03 0.11 0

03/10/30 22/13 BEGIN BEGIN BEGIN 03/10/30 22/13

HORIZONTAL SE = 1.38 VERTICAL SE = 0.73 QUALITY = A
SE = 0.41 AZ = -34. AZ = -124.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SDXM MF AVPM SDFM
031030 2213 19.13 44N13.67 114W 4.24 12.61 1.95 11 10 194 1 0.05 1.4 0.7 C 810 0.23 10 20 0.00 0.04 0 0.0 0.0 10 1.9 0.2
SE OF DRIG = 0.054 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-OUTTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
017 8.4 336 144 21.931PD 2.70 2.64 0.07 1.058 23.65 4.52 4.61 -0.09 0.740 903 20 1.89
016 10.3 116 138 21.951PC 2.82 2.83 -0.01 1.058 24.13 5.00 4.95 0.05 0.740 903 24 2.09
03 10.4 96 138 21.961PC 2.83 2.84 -0.01 1.058 24.89 5.76 4.97 0.79 0.000 903 15 1.69
014 11.0 142 136 22.031PD 2.90 2.91 -0.01 1.058 23.63 4.50 5.09 -0.53 0.000 903 21 1.99
01 19.5 4 118 23.161PC 4.03 4.01 0.02 1.058 25.94 6.81 7.02 -0.20 0.000 903 18 1.89
311 38.1 147 102 25.77EPC4 6.64 6.85 -0.21 0.000 27.80 8.67 12.00 -3.32 0.000 903 18 1.99
06 49.0 126 99 27.081PD 8.55 8.61 -0.06 1.058 30.46 11.33 15.07 -3.73 0.000 903 21 2.09
010 49.1 139 99 27.09EPC 8.67 8.62 0.05 1.058 34.50 15.37 15.09 0.29 0.000 903 20 2.09
08 52.4 142 98 28.141PC 9.21 9.16 0.05 1.058 29.94 10.81 16.03 -5.21 0.000 903 31 2.49
07 59.4 138 97 29.61EPC 10.48 10.29 0.28 -0.09 1.058 37.91 18.78 18.01 0.28 0.000 903 20 2.09

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW SE N E SW NE
AVE. OF END POINTS 0.06 0.10 0.12 0.12 0.13 0.17 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.05 0.01 0.14 D

END END END END

83/10/30 22/20 -----BEGIN----- 83/10/30 22/20 -----BEGIN-----

SE = 0.53 HORIZONTAL SE = 1.94 VERTICAL
AZ = -31. AZ = -121. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AXM SDXM NF AVFM SDFM
831030 2220 58.27 44N 7.30 113M57.84 12.01 1.80 11 11 181 1 0.07 1.9 1.2 C MID 0.08 10 20 0.00 0.06 0 0.0 0.0 10 1.8 0.2
SE OF ORIG = 0.066 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM DIST AZM AIM PSEC PRMK<TCOR=O>TT08-TICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
814 3.6 330 162 0.421P0 2.15 2.19 -0.03 1.028 2.00 3.73 3.83 -0.10 0.000 4 18 1.7
816 7.3 6 146 0.721P0 2.45 2.45 0.00 1.028 2.54 4.27 4.29 -0.02 0.720 4 26 2.1
83 10.8 9 135 1.151P0 2.88 2.82 0.06 1.028 3.37 5.10 4.94 0.17 0.000 4 12 1.4
817 22.8 329 112 2.641P0 4.37 4.47 -0.09 1.028 5.78 7.51 7.82 -0.30 0.000 4 14 1.6
811 23.5 148 111 2.971P0 4.70 4.57 0.13 1.028 4.46 6.19 8.00 -1.81 0.000 4 17 1.8
81 32.0 347 104 4.231P0 5.96 5.89 0.08 1.028 5.61 7.34 10.30 -2.95 0.000 4 15 1.7
810 34.6 137 183 4.601P0 6.33 6.29 0.05 1.028 7.95 9.68 11.00 -1.32 0.000 4 18 1.8
86 35.4 119 102 4.581P0 6.31 6.42 -0.10 1.028 7.91 9.64 11.23 -1.58 0.000 4 20 1.9
88 37.8 141 101 4.971P0 6.70 6.80 -0.09 1.028 7.54 9.27 11.89 -2.62 0.000 4 29 2.3
87 45.0 135 99 6.511P0 8.24 7.95 0.28 0.01 1.028 8.96 10.69 13.92 -3.72 0.000 4 15 1.7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE M NW Z NE E SW
AVE. OF END POINTS 0.06 0.09 0.10 0.11 0.16 0.18 0.18

MUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.07 0.05 0.13 0

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR ARR NM AVXM SODM NF AVPM SDFM
 831030 23 2 34.55 44W 1.73 113W48.33 7.40 3.20 29 7 62 1 0.11 0.6 1.0 A A1A 0.27 10 70 0.00 0.09 0 0.0 0.0 11 3.2 0.4
 SE OF ORIG = 0.033 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
 SYM DIST AZM AIM PSEC PRMKTCDR-O-TT08-TTCAL-DELY-EDLY= P-RES P-MT THIC SSEC SRMK TT08 TTICAL S-RES S-MT AMX PR XMAG R FMP FMAU
 LCRI 4.8 73 142 36.10 PCO 1.55 1.61 1.91 1.79 0.30 -0.06 1.043 0.00-34.55 2.82-37.37 0.000
 M-1 6.5 314 133 36.46 PCO 1.91 1.79 0.30 -0.19 1.043 0.00-34.55 3.14-38.22 0.000
 347 7.0 203 130 36.56 PCO 2.01 1.86 0.15 1.043 37.68 3.13 3.25 -0.12 0.730
 637 9.2 295 120 36.72 PCO 2.17 2.15 0.02 1.043 38.32 3.77 3.76 0.01 0.730
 CM81 9.6 304 119 36.83 PCO 2.28 2.20 0.08 1.043 0.00-34.55 3.85-38.40 0.000
 311 9.6 182 118 36.76 PCO 2.21 2.20 0.00 1.043 0.00-34.55 4.36-38.92 0.000
 M8A1 11.6 344 111 37.10 P 2.55 2.49 0.05 1.043 0.00-34.55 4.42-38.97 0.000
 58P1 11.8 265 111 37.17 P0 2.62 2.52 0.09 1.043 0.00-34.55 4.43 0.13 0.730
 438 11.8 101 110 37.17 P 2.62 2.53 0.09 1.043 39.11 4.56 4.43 0.13 0.730
 M-2 15.8 341 99 37.90 PCO 3.35 3.16 0.17 0.02 1.043 0.00-34.55 5.52-40.37 0.000
 L5C5 15.8 28 99 37.81 PCO 3.26 3.16 0.10 1.043 0.00-34.55 5.52-40.08 0.000
 810 18.5 143 95 38.16 PCO 3.61 3.58 0.03 1.043 40.73 6.18 6.39 -0.21 0.730
 846 18.9 142 95 38.20 PCO 3.65 3.65 0.00 1.043
 86 19.5 111 94 38.20 PCO 3.65 3.74 -0.09 1.043
 814 19.7 313 94 38.28 PCO 3.73 3.78 -0.05 1.043 0.00-34.55 7.05-61.61 0.000
 DSPE 21.2 354 93 38.44 P 0 3.89 4.03 0.14 1.043
 816 21.3 326 93 38.63 PCO 4.08 4.04 0.04 1.043
 88 22.1 150 93 38.69 PCO 4.14 4.18 -0.04 1.043
 WSUI 23.6 333 92 38.70 PCO 4.15 4.41 -0.27 1.043 0.00-34.55 7.72-42.20 0.000
 83 23.7 333 92 39.07 PCO 4.52 4.43 0.09 1.043 42.65 8.10 7.75 0.35 0.000
 ANPE 23.9 310 92 39.05 P 4.50 4.46 0.03 1.043 41.05 6.50 7.81 -1.32 0.000
 MSUI 25.5 337 92 39.26 P 4.71 4.72 -0.02 1.043 0.00-34.55 8.26-42.82 0.000
 87 28.8 139 92 40.23 PCO 5.60 5.26 0.14 1.043 0.00-34.55 9.68-44.23 0.000
 MMSI 30.5 326 91 39.99 P 5.44 5.53 -0.09 1.043 0.00-34.55 10.69-45.25 0.000
 MSU2 34.0 337 91 39.82 P 5.27 6.11 -0.84 0.000
 817 38.6 321 91 41.58 PCO 7.03 6.85 0.17 1.043 56.59 20.04 20.02 0.02 0.000
 MPI 66.9 122 90 46.60 PCO 12.05 11.44 0.61 0.000 0.00-34.55 26.77-61.33 0.000
 JGI 90.7 86 90 50.59 PCO 16.04 15.30 0.74 0.000 0.00-34.55 28.39-62.95 0.000
 8PM 96.4 25 90 51.50 PCO 16.95 16.22 0.72 0.000 62.83 28.28 29.01 -0.74 0.000
 C18 98.5 135 90 52.04 PCO 17.49 16.58 0.91 0.000 71.86 37.31 39.91 -2.61 0.000
 681 139.8 92 65 58.22 P 23.67 22.81 0.86 0.000 0.00 25.45 48.21-22.77 0.000
 TMI 172.1 118 65 2.67 P 28.12 27.55 0.57 0.000 39.40 64.05 61.00 3.84 0.000
 LRM 226.2 28 50 9.90 PCO 35.35 34.86 0.49 0.000 0.00 25.45 61.91-36.47 0.000
 IMW 230.4 94 50 11.68 P 37.13 35.38 1.75 0.000 0.00 25.45 62.67-37.22 0.000
 NPI 233.8 153 50 11.24 P 37.69 35.81 1.88 0.000 39.40 64.05 64.31 0.54 0.000
 8UT 241.3 24 50 15.30 P 40.75 36.75 4.00 0.000 0.00 25.45 79.64-54.19 0.000
 MSO 311.4 358 50 19.60 P 45.05 45.51 -0.46 0.000 53.70 79.15 79.77 -0.62 0.000
 SKM 312.0 41 50 21.80 P 47.25 45.58 1.64 0.000 0.00 25.45 89.24-63.79 0.000
 NCM 355.3 350 50 26.00 P 51.45 50.99 1.45 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N NW 2 SW E NE
 AVE. OF END POINTS 0.10 0.12 0.12 0.13 0.15 0.16 0.17

83/10/30-----23/18-----BEGIN-----BEGIN-----83/10/30-----23/18

HORIZONTAL
SE = 0.89
AZ = -29.
VERTICAL
SE = 2.10
QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP W RMS ERM ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SDFM
831030 2318 55.01 44M11.97 114W 2.43 10.25 1.04 10 8 185 1 0.11 2.9 2.1 0 CID 0.12 10 19 0.00 0.08 0 0.0 0.0 10 1.8 0.4
SE OF ORIG = 0.113 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-HAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYM DIST AZM AIN PSEC PRMK+TCOR-DTTOR-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTCL S-RES S-WT AMX PR KNAG R FNP FMAG
816 7.0 101 143 57.141PD 2.13 2.19 -0.06 1.000 59.40 6.39 3.83 0.56 0.000 6 28 2.1
814 7.0 142 142 57.151PC 2.14 2.20 -0.06 1.000 58.55 3.54 3.84 -0.30 0.000 6 5 0.6
83 8.2 76 138 57.421PD 2.41 2.31 0.10 1.000 58.47 3.46 4.05 -0.59 0.000 6 17 1.7
817 12.3 332 125 57.851PD 2.04 2.82 -0.02 1.000 59.20 4.19 4.93 -0.74 0.000 6 19 1.8
81 22.6 357 107 59.311PC 4.30 4.33 -0.03 1.000 63.38 8.37 7.58 0.79 0.000 6 21 1.9
811 34.1 147 99 61.29EPC 6.28 6.16 0.12 1.000 64.29 9.28 10.78 -1.50 0.000 6 19 1.9
810 45.1 139 96 63.08EPC 8.07 7.93 0.14 1.000 69.84 14.83 13.88 0.95 0.000 6 23 2.1
86 45.2 125 96 62.961PC 7.95 7.94 0.01 1.000 68.09 13.08 13.90 -0.82 0.000 6 21 2.0
88 48.4 142 95 63.491PD 8.48 8.47 0.02 1.000 65.79 10.78 14.81 -4.03 0.000 6 29 2.3
87 55.5 137 94 64.64EPC 9.63 9.60 0.28 -0.25 1.000 6 20 2.0

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE SW NW E N NE Z
AVE. OF END POINTS 0.02 0.06 0.08 0.10 0.11 0.14 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.11 0.00 0.09 D

83/10/30 23/56 BEGIN-----BEGIN-----83/10/30 23/56

HORIZONTAL SE = 0.61 SE = 1.11 VERTICAL SE = 0.84
AZ = -12. AZ = -102. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831030 2356 26.09 44M15.24 114W 4.84 5.71 3.24 30 9 155 1 0.17 1.1 0.8 C 81C 0.07 10 65 0.00 0.12 0 0.0 0.0 12 3.2 0.4
SE OF ORIG = 0.073 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-OSTTOD-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOW TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
845 4.5 313 141 27.51EPD 1.42 1.33 0.08 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
846 4.8 89 139 27.45 P 1.36 1.37 0.02 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
817 5.4 332 135 27.55IPD 1.46 1.45 0.01 0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
847 9.4 141 120 28.19 P 2.10 2.02 0.08 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
8502 10.5 54 117 27.83 PCO 1.74 2.20 0.46 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
844 11.7 30 114 28.46EPC 2.37 2.59 0.02 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
83 11.8 110 114 28.70IPD 2.61 2.41 0.20 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
8501 12.0 109 114 28.50 P 2.41 2.44 0.03 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
8501 12.0 98 114 28.56 P 2.47 2.44 0.03 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
816 12.5 127 113 28.65IPD 2.56 2.52 0.04 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
842 13.3 140 111 0.00IP 4 -26.09 2.66 0.03 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
814 13.8 147 111 28.80IPD 2.71 2.74 0.03 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
81 16.7 7 107 29.21IPC 3.12 3.22 0.10 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
M-2 19.5 121 105 30.26 P 4.17 3.71 0.29 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
OSPI 20.3 101 104 29.84 P 3.75 3.84 0.09 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
848 23.4 126 102 30.48 P 4.39 4.37 0.01 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
CM81 24.1 144 102 30.43 P 4.34 4.50 0.16 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
M-1 26.9 140 101 31.50 P 5.41 4.98 0.13 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
849 28.0 158 100 31.22 PCO 5.13 5.18 0.05 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
LGS3 31.3 111 65 31.71 PCO 5.62 5.77 0.15 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
LCRI 35.6 132 65 32.55 P 6.46 6.46 0.00 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
811 40.9 148 65 33.26EPC 7.17 7.32 0.16 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
86 51.4 129 65 35.11IP 9.02 9.02 0.01 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
810 51.8 140 65 35.15EPD 9.06 9.09 0.03 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
88 55.2 143 65 35.55IPD 9.46 9.64 0.18 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
37 62.1 139 65 36.90IPD 10.81 10.77 0.28 0.24 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
848 88.1 45 65 41.30 PCO 15.21 14.98 0.23 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
MPI 99.2 127 65 43.25 PCO 17.16 16.79 0.37 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
JGI 113.6 99 55 45.42 PCO 19.33 19.12 0.21 1.031 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
C14 131.8 136 55 48.50 P 22.41 21.79 0.62M0.000 0.62M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
841 164.2 100 55 53.23 PCO 27.14 26.56 0.58M0.000 0.58M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
TMI 203.4 121 44 58.52 P 32.43 32.22 0.21M0.000 0.21M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
LRM 216.5 36 44 59.60 PCO 33.51 33.84 0.35M0.000 0.35M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
IMW 254.7 99 44 59.63 P 39.54 38.62 0.92M0.000 0.92M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
MPI 266.3 152 44 8.21 P 42.12 40.07 2.05M0.000 2.05M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
MSO 286.5 2 44 8.00 P 41.91 42.60 0.69M0.000 0.69M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1
MCM 327.4 353 44 13.70 P 47.61 47.72 0.11M0.000 0.11M0.000 0.00-26.09 2.40-28.50 0.000 30.09 4.00 3.53 0.47 0.000 100 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E NE N Z SW
AVE. OF END POINTS 0.03 0.04 0.08 0.09 0.09 0.10 0.14

NUMBER RMS MIN DRMS AVE DRMS QUALITY

HORIZONTAL
SE = 0.47
AZ = -33.
VERTICAL
SE = 1.13
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERI Q SQD ADJ IN NR AVR AAR NM AVIM SDIM WF AVFM SDFM
831031 1 4 33.72 4W 5.97 113W56.42 8.52 2.84 27 5 89 1 0.15 0.9 1.1 8 0.11 10 60 0.00 0.11 0 0.0 0.0 12 2.8 0.3
SE OF ORIG = 0.057 7 ITERATIONS TOTAL

STATION DATA --		P-WAVE TRAVEL-TIME DATA AND DELAYS -----										S-WAVE TRAVEL-TIME DATA ----										MAGNITUDE DATA ---												
STN	DIST	AZM	AIN	PSEC	PRMK	TCOR	0-TIOB	TTICAL	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TIOB	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG										
CH01	2.4	176	162	35.33	P 0		1.61	1.59		0.01	1.141		0.00	-33.72	2.79	-36.51	0.000		101				1											
037	3.9	183	153	35.42	P 0		1.70	1.68		0.01	1.141		36.65	2.93	2.94	-0.02	0.799		101				1											
M-1	4.8	134	147	35.77	P 0		2.05	1.76	0.30	-0.01	1.141		0.00	-33.72	3.08	-37.33	0.000		101				1											
M01	6.0	56	141	36.03	P+2		2.31	1.87		0.44	0.285		0.00	-33.72	3.27	-36.99	0.000		101				1											
M-2	7.6	22	133	36.10	PC		2.38	2.05	0.17	0.16	1.141		0.00	-33.72	3.59	-37.61	0.000		101				1											
B14	8.4	311	130	35.861PC			2.14	2.15		-0.01	1.141								101				45	2.51										
B-2	8.8	323	128	0.00	P 4		-33.72	2.18		-35.91	0.000		37.42	3.70	3.82	-0.13	0.799		101				1											
9RPI	9.6	202	126	36.17	PC		2.45	2.28		0.16	1.141		0.00	-33.72	4.00	-37.72	0.000		101				1											
B16	10.5	338	122	36.131P			2.41	2.41		-0.01	1.141								101				1											
ANPI	12.6	321	116	36.45	P 0		2.73	2.71		0.01	1.141		0.00	-33.72	4.75	-38.47	0.000		101				1											
MSUI	13.4	349	114	37.10	P 2		3.38	2.84		0.54M0.000			0.00	-33.72	4.97	-38.69	0.000		101				1											
B3	13.4	348	114	36.571PC			2.85	2.84		0.00	1.141								101				34	2.31										
LCRI	14.3	117	112	36.80	P 0		3.08	2.97		0.11	1.141		0.00	-33.72	5.19	-38.91	0.000		101				1											
DSPI	14.6	24	111	36.43	P 0		2.71	3.01		-0.30	1.141		0.00	-33.72	5.27	-38.99	0.000		101				1											
MSUI	15.7	353	109	37.04	P 3		3.32	3.17		0.14	0.071		0.00	-33.72	5.56	-39.28	0.000		101				1											
BRCI	17.5	222	105	37.16	P 0		3.44	3.46		-0.02	1.141		0.00	-33.72	6.05	-39.77	0.000		101				1											
B11	19.2	156	103	37.351PC			3.63	3.73		-0.10	1.141								101				50	2.71										
MMSI	19.5	332	102	37.29	P 0		3.57	3.78		-0.21	1.141		0.00	-33.72	6.61	-40.34	0.000		101				1											
B38	22.2	117	108	0.00	P 4		-33.72	4.20		-37.93	0.000		40.84	7.12	7.35	-0.24	0.799		101				1											
B17	27.4	323	96	38.981P			5.26	5.04		0.22	1.141								101				40	2.51										
B10	29.7	140	95	39.131PC			5.41	5.42		-0.02	1.141		41.99	8.27	9.49	-1.22	0.000		101				65	2.91										
B46	30.2	139	95	0.00	P 4		-33.72	5.49		-39.22	0.000		42.67	8.95	9.62	-0.67M0.000		101				1												
B6	30.2	119	95	39.091PD			5.37	5.50		-0.14	1.141		42.21	8.49	9.63	-1.15	0.000		101				47	2.61										
B8	33.1	145	95	39.631P			5.91	5.97		-0.07	1.141								101				1											
91	35.7	341	94	40.10EP			6.38	6.38		-0.01	1.141								101				40	2.51										
B7	40.1	138	93	41.081P			7.28	7.09	0.28	-0.10	1.141								101				85	3.21										
MPI	78.0	124	91	47.45	P 2		13.73	13.24		0.48	0.285								101				56	3.01										
BPM	93.2	31	91	44.90	PC		11.18	15.71		-4.53M0.000			0.00	-33.72	27.48	-61.21	0.000		101				1											
JGI	98.5	90	91	50.64	P 0		16.92	16.57		0.34	1.141		61.45	27.73	29.00	-1.28	0.000		101				64	3.11										
CIB	109.8	135	65	52.83	P 0		19.11	18.32		0.79M0.000			66.40	32.68	32.05	0.62	0.000		101				68	3.21										
G81	148.4	95	65	58.28	P 0		24.56	23.99		0.56M0.000			75.37	41.65	41.99	-0.34	0.000		101				75	3.51										
IMI	183.0	119	65	3.18	P 0		29.46	29.08		0.36M0.000			25.23	51.51	50.89	0.61	0.000		101				1											
IMW	239.1	95	50	11.24	P 2		37.52	36.36		1.16M0.000			0.00	26.28	63.62	-37.35	0.000		101				1											
NPI	244.6	152	50	12.96	P 0		39.24	37.04		2.20M0.000			0.00	26.28	64.82	-38.54	0.000		101				1											

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM SM Z N E ME SE
AVE. OF END POINTS 0.05 0.06 0.08 0.08 0.09 0.10 0.10 0.12

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.15 -0.01 0.08 0

03/10/31 2/28 BEGIN-----BEGIN-----03/10/31 2/28

HORIZONTAL SE = 1.19 SE = 1.64 VERTICAL
AZ = -29. AZ = -119. SE = 12.73 QUALITY = D

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQJ ADJ IN MR AVR AAR MH AVXM SDXM MF AVFM SOFM
031031 228 28.06 44N10.74 113W56.23 1.84 12 6 95 1 0.20 1.6 12.7 C C18 0.13 10 26 0.00 0.17 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.178 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-0+TTOR-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTOR TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
#SUI 4.3 358 106 28.90 PC0 0.84 0.90 -0.06 1.067 0.00-28.06 1.57-29.63 0.000
M-2 5.6 109 102 29.00 PC0 1.54 1.12 0.17 0.25 1.067 0.00-28.06 1.96-30.31 0.000
AMPI 5.6 280 102 29.00 PC0 0.94 1.13 -0.18 1.067 0.00-28.06 1.97-30.03 0.000
MSUI 6.7 4 99 29.24 PC0 1.18 1.32 -0.14 1.067 0.00-28.06 2.31-30.37 0.000
#BAI 9.2 127 96 29.89 PC0 1.83 1.76 0.07 1.067 0.00-28.06 3.08-31.14 0.000
MWSI 10.7 322 95 29.54 P+3 1.48 2.03 -0.55M0.000 31.12 3.06 3.55 -0.49 0.000
CH81 11.6 167 95 30.13 PC0 2.07 2.17 -0.10 1.067 0.00-28.06 3.80-31.86 0.000
M-1 13.5 154 94 30.86 PC0 2.80 2.54 0.30 -0.03 1.067 0.00-28.06 4.44-33.02 0.000
85U2 14.9 349 94 31.10 P 0 3.04 2.77 0.27 1.067 0.00-28.06 4.86-32.91 0.000
BRPI 17.7 184 93 31.72 PC0 3.66 3.29 0.37 1.067 34.22 6.16 5.75 0.41 0.000
LSGS 18.1 99 93 31.31 PC0 3.25 3.35 -0.09 1.067 0.00-28.06 5.86-33.91 0.000
LCRI 21.5 135 92 31.70 P 0 3.64 3.96 -0.32 1.067 0.00-28.06 6.93-34.99 0.000
8RCI 23.7 203 92 32.26 P+2 4.20 4.36 -0.16 0.267 0.00-28.06 7.63-35.69 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE NE SW 2 E M
AVE. OF END POINTS -0.04 0.00 0.01 0.03 0.05 0.05 0.07

NUMBER RMS MIN RMS AVE RMS QUALITY
5 0.20 -0.08 0.03 D

83/10/31 4/43 BEGIN BEGIN BEGIN 83/10/31 4/43

HORIZONTAL SE = 1.07 SE = 2.70 VERTICAL SE = 2.32
AZ = 20. AZ = -70. QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODM MF AVFM SODM
#31031 443 33.54 44N15.91 114W 6.15 2.85 3.36 17 12 233 1 0.15 2.8 2.3 D CID 0.27 10 46 0.00 0.13 0 0.0 0.0 4 3.4 0.3
SE OF ORIG = 0.226 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
SYM DIST AZM AIN PSEC PRMK+TCDR=0=ITD8-TICAL-DELAY=EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
NWS1 6.6 100 109 34.98 P 0 1.44 1.35 0.09 1.026 0.00-33.54 2.36-35.91 0.000
#SU2 11.4 64 101 35.70 PCO 2.16 2.18 -0.02 1.026 0.00-33.54 3.82-37.36 0.000
ANP1 11.5 130 100 35.80 P 0 2.26 2.20 0.06 1.026 0.00-33.54 3.85-37.39 0.000
NSU1 13.9 102 98 35.95 P 0 2.41 2.63 -0.22 1.026 0.00-33.54 4.59-38.14 0.000
WSU1 14.1 112 98 36.40 PCO 2.86 2.65 0.21 1.026 0.00-33.54 4.64-38.18 0.000
M-2 21.7 122 95 38.00 PCO 4.46 4.00 0.17 0.29 1.026 0.00-33.54 7.00-40.84 0.000
JSP1 22.2 103 95 37.33 P 0 3.79 4.10 -0.31 1.026 0.00-33.54 7.17-40.71 0.000
WBA1 25.5 126 94 38.31 P-1 4.77 4.68 0.09 0.517 0.00-33.54 8.19-41.73 0.000
CH01 26.1 143 94 38.43 PCO 4.89 4.79 0.09 1.026 0.00-33.54 8.39-41.93 0.000
M-1 28.9 139 94 39.22 P+0 5.68 5.29 0.30 0.09 1.026 0.00-33.54 9.26-43.32 0.000
WRP1 29.8 156 94 39.07 PCO 5.53 5.44 0.08 1.026 0.00-33.54 9.53-43.07 0.000
BR01 31.6 173 94 39.11 P 0 5.57 5.77 -0.20 1.026 0.00-33.54 10.10-43.64 0.000
LS05 33.4 112 93 39.50 P 0 5.96 6.09 -0.13 1.026 0.00-33.54 10.65-44.19 0.000
LCR1 37.7 131 93 40.25 P 0 6.71 6.85 -0.14 1.026 0.00-33.54 11.98-45.52 0.000
BPM 88.4 46 65 48.90 PCO 15.36 15.25 0.10 1.026 0.00-33.54 26.70-60.24 0.000
API 101.4 127 65 50.88 P 0 17.34 17.35 -0.01 1.026 64.19 30.65 30.36 0.28 0.000
JGI 115.6 100 65 53.18 P 0 19.64 19.66 -0.02 1.026 0.00-33.54 34.40-67.94 0.000
C10 133.9 136 55 56.23 PCO 22.69 22.39 0.2900.000 0.00-33.54 34.19-72.73 0.000
GB1 166.2 101 55 0.95 P 0 27.41 27.13 0.2700.000 20.45 46.91 47.49 -0.58 0.000
TMI 205.6 121 44 6.40 P 0 32.86 32.86 0.0000.000 31.47 57.93 57.50 0.43 0.000
LRM 216.6 37 44 7.40 PCO 33.86 34.23 -0.3700.000 0.00 26.46 59.90-23.44 0.000
IMW 256.6 99 44 13.72 P 0 40.18 39.23 0.95M0.000 0.00 26.46 68.65-42.19 0.000
NPI 268.2 151 44 15.65 P 0 42.11 40.68 1.43M0.000 0.00 26.46 71.19-44.73 0.000

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH SE 2 NE E M NW SW
AVE. OF END POINTS 0.01 0.05 0.07 0.07 0.07 0.10 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
7 0.15 -0.03 0.07 0

END END END END END END END

83/10/31 7/ 2 BEGIN-----BEGIN-----83/10/31 7/ 2

HORIZONTAL SE = 1.81 VERTICAL SE = 2.16
AZ = -35. AZ = -125. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVPM SOFM
831031 7.2 1.62 43M53.69 113W45.46 13.20 2.39 13 8 200 1 0.13 1.8 2.2 C 810 0.13 10 14 0.00 0.11 0 0.0 0.0 9 2.4 0.3
SE OF ORIG = 0.131 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-OSTTDB-TTCAL-EDLY= P-RES P-WT THIC SSEC SRNK TTDB TTICAL S-RES S-WT AMX PR RMAG R FMP FMAG
811 6.7 322 151 3.371PD 2.35 2.57 -0.22 1.048 6.35 4.73 4.65 0.08 0.734 106 35 2.31
810 7.2 90 149 4.391PC 2.77 2.61 0.16 1.048 6.35 4.73 4.65 0.08 0.734 106 34 2.31
346 7.7 91 147 4.401P 2.78 2.65 0.12 1.048 7.56 5.94 6.00 -0.07 0.734 106 70 2.31
887 8.3 122 146 4.361PC 2.74 2.71 0.03 1.048 13.38 11.76 12.25 -0.49 0.000 106 38 2.41
838 14.8 32 128 5.111P 3.49 3.43 -0.09 1.048 106 67 2.91
86 16.4 61 125 5.161P 3.54 3.63 -0.17 1.048 106 30 2.31
87 16.5 114 125 5.391P 3.77 3.66 0.28 -0.07 1.048 106 25 2.21
814 33.7 327 106 7.761PC 6.14 6.20 0.04 1.048 106 23 2.11
83 38.8 338 103 8.661PD 7.04 7.00 -0.23 1.048 106 18 1.91
817 53.0 328 99 11.12EP 9.50 9.26 -0.09 1.048
81 61.2 337 97 12.12EPO 10.50 10.59

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW E SE Z NE NW N
AVE. OF END POINTS 0.03 0.09 0.09 0.09 0.09 0.10 0.11 0.11

NUMBER RMS MIN ORMS AVE ORMS QUALITY
8 0.13 0.02 0.08 D

83/10/31-----7/11-----BEGIN-----BEGIN-----83/10/31-----7/11

HORIZONTAL
SE = 1.06
AZ = 7.
VERTICAL
SE = 1.76
QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SDO ADJ IN NR AVR AIR NM AVXM SORM MF AVFM SDFM
831031 711 42.91 44N15.01 114W 3.68 3.48 15 10 243 1 0.17 3.4 1.8 0 CIO 0.05 10 40 0.00 0.13 0 0.0 0.0 3 3.5 0.3
SE OF ORIG = 0.246 4 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
SYM DIST AZM AIM PSEC PRMK+TCOR=0-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
MWSI 3.3 81 134 43.41 P 0 0.90 0.90 0.00 1.127 0.00-42.51 1.57-44.08 0.000
ANPI 8.2 147 110 44.27 P 0 1.76 1.65 0.11 1.127 0.00-42.51 2.89-45.40 0.000
BSU2 9.6 46 107 44.70 P 0 2.19 1.90 0.29 1.127 0.00-42.51 3.32-45.83 0.000
WSU1 10.4 110 106 44.40 PC2 1.89 2.03 -0.14 0.282 0.00-42.51 3.55-46.06 0.000
MSU1 10.4 97 105 44.44 P 0 1.93 2.03 -0.10 1.127 0.00-42.51 3.56-46.07 0.000
M-2 18.0 123 99 46.00 P-0 3.49 3.37 0.17 -0.05 1.127 0.00-42.51 5.89-48.70 0.000
MBAT 21.9 128 97 46.61 P+3 4.10 4.05 0.05 0.070 0.00-42.51 7.09-49.60 0.000
CH81 22.9 147 97 46.65 P 0 4.14 4.23 -0.09 1.127 0.00-42.51 7.40-49.91 0.000
M-1 25.6 142 96 47.48 P 0 4.97 4.70 0.30 -0.03 1.127 0.00-42.51 8.23-51.27 0.000
BRPI 27.1 161 96 47.47 PC0 4.96 4.97 -0.01 1.127 49.47 6.96 8.70 -1.74 0.000
LSOS 29.7 111 95 47.80 P 0 5.29 5.45 -0.16 1.127 0.00-42.51 9.53-52.04 0.000
LCRI 34.2 133 94 48.70 P 0 6.19 6.23 -0.04 1.127 0.00-42.51 10.91-53.42 0.000
RPM 87.3 44 65 57.20 PC0 14.69 15.02 -0.33 1.127 0.00-42.51 26.29-68.80 0.000
MPI 97.7 120 65 59.40 P 0 16.89 16.71 -0.18 1.127 72.54 30.03 29.25 0.78 0.000
JGI 112.1 99 65 1.82 P 0 19.31 19.04 0.27 1.127 0.00 17.49 33.32-15.83 0.000
CIG 130.4 136 55 4.65 P08 22.14 21.82 0.3200-000 0.00 17.49 38.18-20.69 0.000
GBI 162.6 180 55 9.56 P 0 27.05 26.55 0.5000-000 29.01 46.50 46.46 0.04 0.000
TMI 201.9 121 44 14.85 PC0 32.34 32.31 0.0300-000 0.00 17.49 56.55-39.06 0.000
LRM 216.0 36 44 15.70 P 8 33.19 34.07 -0.8800-000 0.00 17.49 59.62-42.13 0.000
IMW 253.1 99 44 22.20 P 0 39.69 38.71 0.9800-000 0.00 17.49 67.74-50.25 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW I SW SE E NE N
AVE. OF END POINTS -0.04 0.02 0.06 0.06 0.10 0.11 0.15

NUMBER 9
RMS MIN DRMS AVE DRMS QUALITY
0.17 -0.04 0.07 0

03/10/31 0641 -----BEGIN-----BEGIN-----03/10/31 841

HORIZONTAL SE = 0.54 SE = 0.98 VERTICAL SE = 1.21
AZ = -37. AZ = -127. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOKM MF AVFM SOFM
831031 841 49.11 44M 3.34 113W53.72 7.68 2.72 31 3 77 1 0.18 1.0 1.2 8 HIA 0.21 10 62 0.00 0.14 0 0.0 0.0 14 2.7 0.4
SE OF ORIG = 0.057 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK-TCRDR-0-TTDB-TTCAL-DELY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTAL S-RES S-WT AMX PR XMAG R FMP FMAG
837 1.5 310 168 50.571P 1.46 1.42 0.04 1.052 51.64 2.53 2.49 0.04 0.737 108 1
CM01 2.5 342 160 50.53 P00 1.42 1.47 0.05 1.052 0.00-49.11 2.57-51.68 0.000 108 1
M-1 3.0 59 156 50.83 P00 1.72 1.50 0.30 -0.07 1.052 0.00-49.11 2.62-52.25 0.000 108 1
JRPI 6.1 229 136 51.07 PC0 1.96 1.78 0.18 1.052 52.27 3.16 3.11 0.05 0.000 108 1
48A1 9.1 26 122 51.25 P00 2.14 2.15 -0.01 1.052 0.00-49.11 3.77-52.88 0.000 108 1
LCRI 11.9 98 112 51.50 P00 2.39 2.56 0.17 1.052 0.00-49.11 4.48-53.59 0.000 108 1
M-2 12.1 9 112 51.85 P00 2.74 2.58 0.17 -0.01 1.052 0.00-49.11 4.52-53.93 0.000 108 1
314 12.7 325 110 51.751PC 2.64 2.68 -0.04 1.052 53.85 4.74 4.69 0.05 0.000 108 35 2.31
811 15.4 151 185 51.941PC 2.83 2.94 -0.11 1.052 0.00-49.11 5.34-54.45 0.000 108 40 2.41
ARCI 15.1 237 104 52.16 P 0 3.05 3.05 0.00 1.052 54.66 5.55 5.90 -0.34 0.000 108 44 2.51
916 15.4 342 103 52.141PC 3.03 3.09 -0.06 1.052 0.00-49.11 6.22-55.33 0.000 108 1
AMPI 17.2 329 100 52.36 P 0 3.25 3.37 -0.12 1.052 0.00-49.11 6.25-55.36 0.000 108 1
LSGS 18.2 53 98 52.60 P00 3.49 3.55 -0.06 1.052 0.00-49.11 6.38-55.99 0.000 108 1
WSUI 18.4 349 98 52.85 P04 3.74 3.57 0.17 0.000 0.00-49.11 7.92-57.03 0.000 108 33 2.31
83 18.4 348 98 52.46EP 3.35 3.58 -0.23 1.052 0.00-49.11 6.38-55.49 0.000 108 1
OSPI 18.8 16 97 52.59 P 0 3.48 3.65 -0.16 1.052 55.63 6.52 6.59 -0.06 0.737 108 1
838 19.6 106 97 52.841P 3.73 3.76 -0.03 1.052 0.00-49.11 6.88-55.99 0.000 108 1
MSUI 20.6 352 96 53.01 P 0 3.90 3.93 -0.03 1.052 0.00-49.11 7.92-57.03 0.000 108 1
NWSI 24.3 336 94 53.77 P00 4.66 4.52 0.14 1.052 57.09 7.98 8.27 -0.29 0.000 108 50 2.71
810 25.5 134 93 53.67EP 4.56 4.72 -0.16 1.052 0.00-49.11 9.24-58.35 0.000 108 43 2.51
86 27.3 111 93 53.891PC 4.78 5.01 -0.23 1.052 58.83 9.72 10.09 -0.37 0.000 108 75 3.01
88 28.7 141 93 54.15EP 5.04 5.24 -0.19 1.052 60.83 11.77 11.22 0.06 0.000 108 1
8SU2 29.0 347 93 54.40 P 3 5.29 5.28 0.01 0.066 0.00 10.89 22.22-11.33 0.000 108 57 3.01
817 32.0 327 92 54.83EP 5.72 5.77 -0.04 1.052 0.00 10.89 28.56-17.67 0.000 108 1
87 36.0 133 92 55.62EP 6.51 6.41 0.28 -0.18 1.052 0.00 10.89 28.77-17.88 0.000 108 58 3.11
91 40.6 342 91 56.41EPC 7.30 7.16 0.14 1.052 20.64 31.53 31.09 0.45 0.000 108 71 3.31
MPI 74.6 121 91 2.10 P00 12.99 12.70 0.30 1.052 30.10 40.99 41.77 -0.77 0.000 108 87 3.61
8PM 96.9 29 90 5.90 PC0 16.79 16.32 0.47 1.052 0.00 10.89 50.19-39.30 0.000 108 1
JGI 97.7 88 90 5.76 PC0 16.65 16.44 0.21 1.052 0.00 10.89 61.14-50.25 0.000 108 1
CIB 105.8 133 90 7.38 PC0 18.27 17.76 0.51 1.052 0.00 10.89 63.48-52.59 0.000 108 1
JBI 147.1 93 65 13.40 P 0 24.29 23.87 0.4300.000 0.00 10.89 61.14-50.25 0.000 108 1
TMI 179.9 118 65 17.97 P 0 28.86 28.68 0.1800.000 0.00 10.89 61.14-50.25 0.000 108 1
LRM 227.0 30 50 24.00 P 0 34.89 34.94 -0.0400.000 0.00 10.89 61.14-50.25 0.000 108 1
IMW 237.8 94 50 26.14 P 0 37.03 36.28 0.7600.000 0.00 10.89 61.14-50.25 0.000 108 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 SE N NW E SW NE
AVE. OF END POINTS 0.03 0.04 0.05 0.07 0.08 0.08 0.09

NUMBER RMS MIN DRMS AVE DRMS QUALITY
18 0.18 0.03 0.07 0

03/10/31 10/32 BEGIN BEGIN 03/10/31 10/32

HORIZONTAL SE = 0.96 SE = 1.75 VERTICAL SE = 0.95 QUALITY = A
AZ = 20. AZ = -70.

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR ABR NM AVXM SOXM NF AVFM SOFM
831031 1032 41.65 44N14.03 11W 2.19 6.77 3.80 14 8 206 1 0.13 1.7 0.9 C 010 0.12 10 50 0.00 0.10 0 0.0 0.0 5 3.8 0.3
SE OF ORIG = 0.117 6 ITERATIONS TOTAL

(- - - - - DATA - - - - -) P-WAVE TRAVEL-TIME DATA AND DELAYS - - - - - VARI (- - - - - S-WAVE TRAVEL-TIME DATA - - - - -) MAGNITUDE DATA - - - - -
STN DIST AZIM AZIM PSEC PRMK+TCOR=0-TT08-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XHAG R FAP FRAG
NWSI 2.7 28 158 42.97 P00 1.32 1.33 -0.01 1.032 0.00-41.65 2.34-43.98 0.000
AMPI 5.6 155 139 43.41 P 0 1.76 1.62 0.15 1.032 0.00-41.65 2.83-44.48 0.000
WSUI 8.0 103 129 44.30 PC0 2.65 1.92 0.74M0.000 0.00-41.65 3.36-45.00 0.000
MSUI 8.4 86 128 43.52 P 0 1.87 1.98 -0.10 1.032 0.00-41.65 3.46-45.10 0.000
SSUI 9.8 30 123 44.70 PC0 3.05 2.18 0.87M0.000 0.00-41.65 3.82-45.46 0.000
DSPI 16.4 96 111 44.83 P 0 3.18 3.24 -0.06 1.032 0.00-41.65 5.68-47.32 0.000
WBAI 19.2 127 108 45.34 P-1 3.69 3.71 -0.02 0.591 0.00-41.65 6.49-48.14 0.000
CMAI 20.3 149 107 45.53 P 0 3.88 3.89 -0.01 1.032 0.00-41.65 6.82-48.46 0.000
M-1 22.9 143 65 46.24 PC0 4.59 4.32 0.30 -0.03 1.032 0.00-41.65 7.56-49.73 0.000
BRPI 24.7 164 65 46.22 PC0 4.57 4.62 -0.04 1.032 47.32 5.67 8.08 -2.41 0.000
LSGS 27.3 109 65 46.40 P 0 4.75 5.03 -0.27 1.032 0.00-41.65 8.40-50.44 0.000
ARCI 28.0 183 65 46.66 P 0 5.01 5.14 -0.13 1.032 0.00-41.65 9.00-50.64 0.000
LCRI 31.5 133 65 47.50 P 0 5.85 5.71 0.14 1.032 0.00-41.65 9.99-51.64 0.000
BPM 87.3 42 65 56.50 PC0 14.85 14.77 0.08 1.032 0.00-41.65 25.85-67.50 0.000
MPI 95.0 128 65 57.93 P 0 16.28 16.03 0.25 1.032 0.00-41.65 28.05-69.70 0.000
JGI 109.8 98 65 0.12 P00 18.47 18.43 0.04 1.032 0.00 18.35 32.25-13.90 0.000
CIB 127.7 136 55 3.00 P 0 21.35 21.08 0.27M0.000 0.00 18.35 36.90-18.54 0.000
GRI 160.4 100 55 7.75 PC0 26.10 25.88 0.22C0.000 0.00 18.35 45.29-26.93 0.000
TMI 199.2 121 44 13.09 P 0 31.44 31.56 -0.12M0.000 0.00 18.35 55.23-36.88 0.000
LRM 216.3 35 44 14.50 P00 32.85 33.69 -0.84M0.000 0.00 18.35 58.96-40.61 0.000
IMW 250.8 99 44 20.44 P 0 38.79 38.01 0.79M0.000 0.00 18.35 66.51-48.16 0.000
NPI 262.6 152 44 22.94 P 0 41.29 39.48 1.82M0.000 0.00 18.35 69.09-50.73 0.000
MSD 288.6 1 44 22.90 P 0 41.25 42.73 -1.47M0.000 0.00 18.35 74.77-56.42 0.000
ALI 290.4 148 44 26.81 P 0 45.16 42.95 2.21M0.000 0.00 18.35 75.16-56.81 0.000
NCM 330.1 353 44 29.00 P 0 47.35 47.91 -0.56M0.000 0.00 18.35 83.85-65.50 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z E N SE SW NE
AVE. OF END POINTS 0.07 0.07 0.08 0.11 0.15 0.16 0.19

NUMBER RMS MIN ORMS AVE ORMS QUALITY
7 0.13 -0.01 0.12 D

END END END END END END

83/10/31 10/33 BEGIN BEGIN 83/10/31 10/33

HORIZONTAL SE = 0.60 SE = 1.87 VERTICAL SE = 1.11
AZ = -34. AZ = -124. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR BAR NM AVXM SOXM MF AVFM SDFM
831031 1033 26.08 44W10.06 113W57.84 9.25 2.60 15 4 110 1 0.12 1.9 1.1 8 818 0.09 10 16 0.00 0.08 0 0.0 0.0 8 2.6 0.1
SE OF ORIG = 0.071 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR AMAG R PMP PMAG
816 1.0 47 173 27.701P 1.62 1.66 -0.04 1.064 29.05 2.97 2.97 0.00 0.745 110 1
842 2.2 198 166 27.841P 1.76 1.69 0.07 1.064 35.69 9.61 9.85 -0.24 0.745 110 45 2.61
814 3.9 207 155 27.871P 1.79 1.79 0.00 1.064 30.79 12.71 12.42 0.29 0.745 110 60 2.91
83 4.5 24 152 27.921P 1.84 1.03 0.01 1.064 110 40 2.41
817 17.5 317 109 29.401P 3.32 3.50 -0.18 1.064 110 48 2.61
81 25.7 344 100 31.051P 4.97 4.78 0.19 1.064 110 42 2.51
811 29.3 155 90 31.431P 5.35 5.37 -0.02 1.064 110 40 2.51
838 31.0 128 97 31.811P 5.73 5.63 0.10 1.064 110 45 2.61
86 39.0 128 95 32.931P 6.85 6.93 -0.08 1.064 110 60 2.91
810 39.7 143 95 33.111P 7.03 7.03 0.00 1.064 110 1
346 40.1 143 95 0.001P 4 -26.08 7.10 -33.18 0.000 110 1
88 43.2 147 94 33.671P 7.59 7.60 -0.01 1.064 110 1
87 49.9 141 94 34.991P 8.91 8.70 0.20 -0.07 1.064 110 40 2.61

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW NE Z E NW N SE
AVE. OF END POINTS 0.40 0.41 0.61 0.76 0.84 0.94 1.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
15 0.12 0.32 0.74 A

END END END END END

83/10/31 10/55 BEGIN BEGIN BEGIN 83/10/31 10/55

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXN SOXM NF AVPM SOFM
831031 1055 37.32 44W 6.73 113W57.03 11.35 2.62 26 6 116 1 0.10 0.7 1.0 8 418 1.04 10 52 0.00 0.09 0 0.0 0.0 9 2.6 0.2
SE OF ORIG = 0.056 5 ITERATIONS TOTAL

SE = 0.38 SE = 0.73 VERTICAL
AZ = -29. AZ = -119. SE = 0.98 QUALITY = A

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
SYM DIST AZM AIN PSEC PRMK+TCOR=0-YT08-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDN TTICAL S-RES S-WT ANX PR XMAC R FMP FMAG
814 5.1 326 154 39.38EPO 2.06 2.10 -0.12 1.055 0.00-37.32 3.84-41.16 0.000 111 40 2.41 1
CMBI 5.3 137 153 39.43 P00 2.11 2.20 -0.09 1.055 0.00-37.32 3.84-41.16 0.000 111 1
842 5.9 342 150 0.00IP 4 -37.32 2.24 -3.56 0.000 41.15 3.83 3.92 -0.09 0.738 111 1
816 8.3 357 141 39.83IP0 2.51 2.47 0.04 1.055 0.00-37.32 4.34-42.18 0.000 111 61 2.81 1
M-1 8.4 124 140 40.19 P-0 2.87 2.48 0.30 0.09 1.055 0.00-37.32 4.34-42.18 0.000 111 1
M-2 8.5 48 140 39.90 PC0 2.58 2.48 0.17 -0.07 1.055 0.00-37.32 4.35-41.97 0.000 111 1
MBAI 8.6 77 140 39.94 PC0 2.62 2.50 0.12 1.055 41.89 4.57 4.38 0.19 0.000 111 1
AMPI 9.5 332 136 39.91 P 0 2.59 2.60 -0.01 1.055 41.46 4.14 4.54 -0.40 0.000 111 1
8MPI 10.3 181 134 40.12 P00 2.80 2.68 0.12 1.055 0.00-37.32 4.69-42.01 0.000 111 1
83 11.8 3 130 40.08IPC 2.76 2.86 -0.10 1.055 0.00-37.32 5.00-42.33 0.000 111 37 2.41 1
MSUI 11.8 4 130 40.40 PC2 3.08 2.86 0.22 1.055 0.00-37.32 5.56-42.88 0.000 111 1
NSUI 14.2 6 124 40.62 P 0 3.30 3.18 0.12 1.055 0.00-37.32 5.79-43.11 0.000 111 1
DSPI 15.2 39 122 40.63 P 0 3.31 3.31 0.00 1.055 0.00-37.32 6.14-43.46 0.000 111 1
8RCI 16.6 210 119 40.91 P 0 3.59 3.51 0.08 1.055 0.00-37.32 6.18-43.50 0.000 111 1
MSUI 16.8 341 119 40.87 PC0 3.55 3.53 0.02 1.055 0.00-37.32 6.48-43.80 0.000 111 1
LCRI 18.0 116 117 41.10 PC0 3.78 3.70 0.08 1.055 0.00-37.32 6.87-44.19 0.000 111 1
LSGS 19.5 76 114 41.40 PC0 4.08 3.92 0.16 1.055 44.78 7.46 7.54 -0.08 0.000 111 50 2.71 1
811 22.1 149 111 41.54IP0 4.22 4.31 -0.09 1.055 0.00-37.32 7.55-44.87 0.000 111 1
8SU2 22.1 355 111 41.40 PC0 4.08 4.31 -0.24 1.055 45.28 7.96 8.14 -0.18 0.000 111 42 2.51 1
817 24.3 328 108 41.97IP 4.65 4.65 -0.22 1.055 45.91 8.59 8.58 0.01 0.738 111 1
838 25.9 116 107 0.00IP 4 -37.32 4.90 -0.06 1.055 48.75 11.43 10.66 0.77M0.000 111 60 2.91 1
81 33.3 346 102 43.53IPD 6.21 6.06 -0.15 1.055 46.71 9.39 10.80 -1.41 0.000 111 39 2.51 1
846 33.6 136 102 0.00IP 4 -37.32 6.09 -43.41 0.000 51.19 13.87 13.46 -0.09 0.000 111 53 2.81 1
86 34.0 119 102 43.33IPC 6.01 6.17 0.16 1.055 0.00-37.32 27.60-64.92 0.000 111 41 2.61 1
88 36.3 142 101 43.91IPD 6.59 6.55 0.04 1.055 0.00-37.32 27.60-64.92 0.000 111 1
87 43.5 135 98 45.21EPC 7.89 7.69 0.28 -0.08 1.055 0.00 22.68 59.76-37.08 0.000 111 1
8PM 93.8 33 65 53.80 PC0 16.48 15.77 0.71M0.000 0.00 22.68 59.76-37.08 0.000 111 1
LRM 223.8 32 50 11.50 P 0 36.18 34.15 0.0300.000 0.00 22.68 59.76-37.08 0.000 111 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N E NE NW SE SW Z
AVE. OF END POINTS 0.09 0.14 0.15 0.15 0.15 0.15 0.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.10 0.07 0.14 0

END END END END END END END

83/10/31 11/26 BEGIN-----BEGIN-----83/10/31 11/26

HORIZONTAL SE = 0.91 SE = 1.83 VERTICAL SE = 2.06
AZ = 38. AZ = -52. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR MM AVXM SDXM MF AVFM SOFM
831031 1126 17.29 44N15.07 114W 3.61 9.76 14 9 227 1 0.08 1.8 2.1 C BID 0.28 10 28 0.00 0.06 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.178 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
M4S1 3.2 83 160 19.22 P00 1.93 1.82 0.11 1.000 0.00-17.29 3.19-20.48 0.000
ANP1 8.2 148 136 19.55 P00 2.26 2.26 0.00 1.000 0.00-17.29 3.96-21.25 0.000
DSU2 9.5 46 131 19.60 PC0 2.31 2.41 -0.10 1.000 0.00-17.29 4.22-21.51 0.000
MSU1 10.4 97 128 19.85 P00 2.56 2.51 0.05 1.000 0.00-17.29 4.40-21.69 0.000
MSU1 10.4 111 128 19.70 P00 2.41 2.51 -0.10 1.000 0.00-17.29 4.40-21.69 0.000
M-2 18.0 123 111 21.05 PC0 3.76 3.60 0.17 -0.01 1.000 0.00-17.29 6.30-23.89 0.000
DSPI 18.6 101 110 20.99 PC0 3.70 3.69 0.01 1.000 0.00-17.29 6.46-23.75 0.000
M8A1 21.9 128 106 21.50 PC0 4.21 4.20 0.01 1.000 0.00-17.29 7.34-24.63 0.000
CH81 22.9 147 104 21.54 PC0 4.25 4.36 -0.11 1.000 0.00-17.29 7.63-24.92 0.000
4-1 25.6 142 102 22.30 PC0 5.01 4.79 0.30 -0.08 1.000 0.00-17.29 8.38-26.19 0.000
8PPI 27.1 161 101 22.42 PC0 5.13 5.03 0.10 1.000 25.72 8.43 8.81 -0.38 0.000
LSGS 29.7 111 100 22.90 PC0 5.61 5.44 0.17 1.000 0.00-17.29 9.52-26.81 0.000
ARCI 29.9 179 99 22.76 PC0 5.47 5.47 0.00 1.000 0.00-17.29 9.57-26.86 0.000
LCRI 34.2 133 98 23.40 PC0 6.11 6.16 -0.05 1.000 0.00-17.29 10.78-28.07 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z NE E SE N SW
AVE. OF END POINTS 0.23 0.28 0.37 0.37 0.47 0.55 0.55

NUMBER RMS MIN DRMS AVE DRMS QUALITY
14 0.08 0.09 0.41 D

-----END-----END-----END-----END-----

-----BEGIN-----BEGIN-----83/10/31 15/15

HORIZONTAL		VERTICAL	
SE =	0.52	SE =	0.85
AZ =	-21.	AZ =	-111.
		SE =	0.63
		QUALITY =	A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	MM	AVMM	SOVM	MF	AVFM	SDFM		
1515	16-24	44	112-66	113	57.61	2-58	28	3	73	1	0.15	0.8	0.6	4	14	0.14	10	49	0.00	0.11	0	0.0	0	0	8	2.6	0.3
SE31031 BE010 6 ITERATIONS TOTAL CUTOFF OF DRG = 0.042																											

STATION DATA		P-WAVE TRAVEL-TIME DATA				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA														
STN	DIST	AIN	PSEC	PRMK	TCOR	OTDOR	TTICAL	DELTA	EOLY	P-RES	P-WT	THIC	SSEC	SRMK	TT0B	TTICAL	S-RES	S-WT	AMX	PR	KMAG	R	FMP	FMAG
33	1.7	63	166	17.2	PIPO		1.03	1.26		-0.23	1.022											113	30	2.11
WUI	1.9	65	164	17.90	P00		1.66	1.27		-0.39	1.022		0.00	-16.24	2.22	-18.46	0.000					113		1
B16	2.7	172	157	17.47	PIPO		1.23	1.32		-0.09	1.022											113		1
NSUI	3.9	36	149	17.72	P 0		1.48	1.41		0.07	1.022		0.00	-16.24	2.47	-18.71	0.000					113		1
AMPI	4.5	235	145	17.77	P 0		1.53	1.47		0.06	1.022		0.00	-16.24	2.57	-18.81	0.000					113		1
42	5.5	191	139	17.76	P 0		1.52	1.58		-0.06	1.022		18.69	2.45	2.77	-0.32	0.715					113		1
NSUI	6.9	315	133	17.96	P 0		1.72	1.75		-0.03	1.022		0.00	-16.24	3.06	-19.30	0.000					113		1
14	7.1	197	132	18.03	PIPO		1.79	1.79		0.00	1.022											113	48	2.61
OSPI	10.3	85	122	18.43	P 0		2.19	2.24		-0.05	1.022		0.00	-16.24	3.91	-20.15	0.000					113		1
55U2	11.1	354	120	18.40	P+0		2.16	2.35		-0.19	1.022		0.00	-16.24	4.12	-20.36	0.000					113		1
B5U2	11.1	354	120	18.70	P 0		2.46	2.35		0.11	1.022		0.00	-16.24	4.12	-20.36	0.000					113		1
WUI	12.9	135	116	18.97	PCO		2.73	2.66		0.07	1.022		0.00	-16.24	4.65	-20.89	0.000					113		1
MBU1	15.5	308	112	19.26	IPC		3.02	3.07		-0.05	1.022		21.42	5.18	5.38	-0.20	0.000					113		2
CMU1	15.5	163	112	19.46	P00		3.20	3.07		0.13	1.022		0.00	-16.24	5.38	-21.62	0.000					113		1
44-1	17.5	154	109	20.00	P+0		3.76	3.42	0.30	0.04	1.022		0.00	-16.24	5.98	-22.74	0.000					113		1
LSGS	20.7	108	106	20.10	PCO		3.86	3.95		-0.09	1.022		0.00	-16.24	6.91	-23.15	0.000					113		1
MBU1	21.3	178	106	20.54	PCO		4.30	4.05		0.25	1.022		23.41	7.17	7.10	0.07	0.000					113		1
41	22.6	341	65	20.53	PIPO		4.29	4.28		0.01	1.022											113	46	2.61
LCU1	25.4	138	65	20.90	PCO		4.66	4.73		-0.07	1.022		0.00	-16.24	8.28	-24.52	0.000					113		1
MBU1	26.5	196	65	21.03	P 0		4.79	4.91		-0.12	1.022		0.00	-16.24	8.59	-24.83	0.000					113		1
311	32.3	158	65	22.28	EPD		6.04	5.85		0.19	1.022		26.95	10.71	10.23	0.48	0.000					113	50	2.71
438	32.9</																							

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	NW	N	Z	E	SW	NE	SE
AVE. OF END POINTS	0.05	0.06	0.10	0.11	0.13	0.14	0.15

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
11	0.15	0.05		0.11		0

END
END
END
END

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ER2 Q SQO ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SOFM
931031 16 0 33.52 44M 8.31 113M59.03 9.56 15 9 144 1 0.17 1.6 3.3 C BIC 0.06 10 36 0.00 0.14 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.168 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)

SYN	DIST	AIM	AIN	PSEC	PRMK+TCOR	-O-TT0B-TTCAL	-DELAY-EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TT0B	TTCAL	S-RES	S-WT	AMX	PR	KNAG	R	FNP	FHAG
ANPI	5.8	342	146	35.62	P 0	2.10	1.99	0.12	1.000		0.00-33.52	3.48-36.99	0.000									
CHBI	9.3	137	131	35.84	P00	2.32	2.36	-0.04	1.000		0.00-33.52	4.13-37.65	0.000									
M-2	9.4	73	131	36.10	P00	2.58	2.38	0.04	1.000		0.00-33.52	4.16-37.97	0.000									
WSUI	9.5	22	130	36.20	P00	2.68	2.39	0.29	1.000		0.00-33.52	4.19-37.70	0.000									
MBAI	11.1	95	125	36.19	P00	2.67	2.59	0.09	1.000		0.00-33.52	4.53-38.05	0.000									
MSUI	12.0	20	123	36.21	P 0	2.69	2.71	-0.02	1.000		0.00-33.52	4.74-38.26	0.000									
M-1	12.3	129	122	36.35	P00	2.83	2.76	-0.22	1.000		0.00-33.52	4.83-38.87	0.000									
MMSI	13.3	347	119	36.16	P00	2.64	2.89	-0.24	1.000		0.00-33.52	5.05-38.57	0.000									
RPPI	13.4	169	119	36.52	PC0	3.00	2.91	0.09	1.000		38.32	4.80	5.10	-0.30	0.000							
OSPI	15.1	54	115	36.52	P 0	3.00	3.14	-0.14	1.000		0.00-33.52	5.50-39.02	0.000									
SRCI	18.2	198	109	37.25	P 0	3.73	3.62	0.11	1.000		0.00-33.52	6.34-39.86	0.000									
OSU2	19.1	2	108	37.00	P00	3.48	3.76	-0.27	1.000		0.00-33.52	6.57-40.09	0.000									
LSGS	21.7	85	105	37.70	P00	4.18	4.16	0.03	1.000		0.00-33.52	7.27-40.79	0.000									
LCRI	21.7	120	105	37.55	P00	4.03	4.16	-0.13	1.000		0.00-33.52	7.28-40.80	0.000									
BPM	92.9	36	92	49.50	PC0	15.98	15.67	0.31	1.000		0.00-33.52	27.43-60.94	0.000									
LRM	222.7	33	50	67.30	P 0	33.78	34.20	-0.4200	0.000		0.00-33.52	59.85-93.37	0.000									
MSD	299.0	1	50	16.80	P 0	43.08	43.74	-0.66H0	0.000		0.00	26.48	76.54-50.06	0.000								
NCM	341.1	352	50	22.30	P 0	48.78	49.00	-0.2200	0.000		0.00	26.48	85.75-59.26	0.000								

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z M SE MW SW NE E
AVE. OF END POINTS 0.05 0.05 0.07 0.07 0.08 0.08 0.20

NUMBER 7
RMS 0.17
MIN ORMS -0.03
AVE ORMS 0.09
QUALITY 0

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AR NM AVXM SODM MF AVFM SDFM
031031 2114 17.49 44N15.44 114W 6.37 6.43 12 10 236 1 0.14 2.8 1.6 D C/D 0.25 10 24 0.00 0.10 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.212 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
SYM DIST AZM AIN PSEC PRMK+TCOR=0-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
MWSI 4.2 94 146 18.95 P 0 1.46 1.41 0.05 1.067 0.00-17.49 2.46-19.96 0.000
ANPI 9.4 145 123 19.53 P00 2.04 2.08 -0.04 1.067 21.43 3.94 3.63 0.30 0.000
BSUZ 9.8 53 122 19.60 PC0 2.11 2.15 -0.04 1.067 0.00-17.49 3.75-21.25 0.000
NSUI 11.5 100 118 19.79 PC0 2.30 2.39 -0.09 1.067 21.22 3.73 4.19 -0.46 0.000
MSUI 11.6 112 118 19.90 PC0 2.41 2.41 0.00 1.067 0.00-17.49 4.21-21.70 0.000
M-2 19.2 123 107 21.40 P00 3.91 3.69 0.05 1.067 0.00-17.49 6.46-24.25 0.000
CSPI 19.7 103 107 21.26 P00 3.77 3.78 -0.01 1.067 0.00-17.49 6.61-24.11 0.000
M8AI 23.1 128 104 21.81 P+2 4.32 4.36 -0.04 0.267 0.00-17.49 7.63-25.12 0.000
M-1 26.7 141 65 22.90 P-0 5.41 4.97 0.14 1.067 0.00-17.49 8.70-26.71 0.000
SRPI 28.1 160 65 22.32 P+0 4.83 5.19 -0.36 1.067 24.22 6.73 9.09 -2.36 0.000
BRCI 30.6 177 65 23.28 P00 5.79 5.59 0.20 1.067 0.00-17.49 9.78-27.27 0.000
LSGS 30.9 112 65 23.25 P00 5.76 5.64 0.12 1.067 0.00-17.49 9.87-27.36 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SE NW N SW NE
AVE. OF END POINTS 0.07 0.08 0.09 0.10 0.14 0.15 0.17

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AR NM AVXM SODM MF AVFM SDFM
031031 2227 45.06 44N 0.50 113W53.89 11.37 2.53 13 13 120 1 0.11 1.5 2.4 B 018 0.17 10 18 0.00 0.09 0 0.0 0.0 10 2.5 0.3
SE OF ORIG = 0.103 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
SYM DIST AZM AIN PSEC PRMK+TCOR=0-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
011 10.3 136 134 48.60IPC 2.82 2.68 0.13 1.048 50.59 4.73 4.83 -0.10 0.734 116 43 2.51
041 10.9 268 132 48.63IP 2.77 2.76 0.01 1.048 52.15 6.29 6.28 0.00 0.000 116 68 2.91
012 13.4 256 126 49.04IPC 3.18 3.06 0.04 1.048 52.70 6.84 7.10 -0.27 0.000 116 35 2.41
014 17.2 336 118 49.50IP 3.64 3.59 -0.05 1.048 53.46 7.60 7.76 -0.17 0.734 116 47 2.61
016 20.4 347 113 49.87IPC 4.01 4.06 -0.11 1.048 54.77 8.91 9.88 -0.98 0.000 116 60 2.91
046 22.9 124 110 50.15IP 4.33 4.44 0.12 1.048 56.78 10.92 11.47 -0.56 0.000 116 50 2.71
08 25.0 133 108 50.73IPD 4.89 4.76 0.15 1.048 54.77 8.91 9.88 -0.98 0.000 116 47 2.71
06 26.1 100 107 50.94IPD 5.08 4.93 0.09 1.048 56.78 10.92 11.47 -0.56 0.000 116 35 2.41
015 30.7 308 103 51.42IP 5.56 5.65 0.02 1.048 116 25 2.11
017 32.8 126 102 51.98IP 6.12 5.97 0.00 0.000 116 23 2.11
07 36.4 332 101 52.44EP 6.58 6.56 0.00 0.000
01 45.5 344 98 54.69EPC4 8.03 8.03

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW SW E NE Z N
AVE. OF END POINTS 0.03 0.11 0.14 0.15 0.16 0.16 0.18

83/11/ 1 -----BEGIN----- 0/59 83/11/ 1 0/59

HORIZONTAL SE = 0.59 SE = 1.42 VERTICAL
AZ = -21. AZ = -111.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SDHM NF AVFM SDFM
831101 059 8.13 44N13.05 114W 2.16 8.01 2.81 25 7 74 1 0.15 0.9 1.4 8 61A 0.55 10 45 0.00 0.11 0 0.0 0.0 8 2.8 0.3
SE DF DRIG = 0.068 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (---- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMK+TCOR=0-TT0B-TTCL-Delay-EDLY= P-RES P-WT THIC SSEC SRMK TT0B TTCL S-RES S-WT ANX PR XNAG R FMP FMAG
AMPI 4.0 144 150 9.82 P00 1.69 1.62 0.07 1.037 11.62 3.49 2.84 0.65 0.000 118 1
MUSI 4.3 16 148 9.81 PC0 1.68 1.65 0.03 1.037 0.00 -8.13 2.88-11.01 0.000 118 54 2.71
816 7.3 118 132 10.01P0 1.95 1.96 -0.01 1.037 0.00 -8.13 3.52-11.65 0.000 118 1
MSUI 7.8 90 130 10.25 P00 2.12 2.01 0.11 1.037 11.52 3.39 3.55 -0.16 0.726 118 1
842 7.9 140 129 0.001P 4 -8.13 2.03 -10.16 0.000 0.00 -8.13 3.71-11.84 8.000 118 38 2.41
814 8.5 152 127 10.271P0 2.14 2.10 0.06 1.037 0.00 -8.13 3.71-11.84 8.000 118 1
MSUI 8.7 74 126 10.35 PC0 2.22 2.12 0.10 1.037 13.41 5.28 6.20 -0.92 0.000 118 1
817 10.8 325 118 10.511PC 2.38 2.41 -0.03 1.037 13.92 5.79 7.57 -1.78 0.000 118 86 3.11
85U2 11.4 26 116 10.52 P 0 2.39 2.50 -0.11 1.037 0.00 -8.13 4.37-12.51 0.000 118 1
815 13.9 252 109 11.131PC 3.00 2.87 -0.12 1.037 13.37 5.24 5.03 0.21 0.000 118 51 2.61
844 14.4 9 108 0.001P 4 -8.13 2.95 0.17 -11.08 0.000 0.00 -8.13 5.19-13.62 0.000 118 1
DSPI 16.3 89 104 11.42 PC0 3.17 2.96 0.03 1.037 0.00 -8.13 5.70-13.83 0.000 118 1
MSAI 18.1 123 101 11.78 P00 3.29 3.26 0.03 1.037 13.41 5.28 6.20 -0.92 0.000 118 1
CH8I 18.8 146 100 11.84 PC0 3.71 3.64 0.07 1.037 14.83 6.70 6.88 -0.18 0.000 118 49 2.61
81 20.6 356 98 12.031PC 3.90 3.93 0.03 1.037 13.92 5.79 7.57 -1.78 0.000 118 1
M-1 21.5 140 97 12.60 PC0 6.47 4.08 0.30 0.09 1.037 0.00 -8.13 8.46-16.59 0.000 118 86 3.11
8KPI 23.0 163 96 12.52 PC0 4.39 4.32 0.06 1.037 0.00 -8.13 8.46-16.59 0.000 118 1
8KCI 26.1 183 95 12.59 PC0 4.46 4.83 0.02 0.000 18.28 10.15 14.11 -3.96 0.000 118 50 2.71
912 26.6 184 95 13.061PC4 4.93 4.91 0.14 1.037 21.89 13.76 14.32 -0.56 0.726 118 67 3.01
LSGS 26.7 105 95 13.15 P 0 5.02 4.92 0.10 1.037 -16.32 0.000 0.10 1.037 118 85 3.21
811 35.6 149 93 14.64EP 6.51 6.36 0.09 1.037 18.28 10.15 14.11 -3.96 0.000 118 1
86 46.1 127 92 16.28EPC 8.15 8.06 -0.09 1.037 21.89 13.76 14.32 -0.56 0.726 118 1
866 46.8 140 92 0.001P 4 -8.13 8.18 -16.32 0.000 0.10 1.037 118 1
88 49.8 144 92 16.90EP 8.77 8.67 -0.03 1.037 18.28 10.15 14.11 -3.96 0.000 118 1
87 56.7 139 91 18.17EPD 10.04 9.79 0.28 -0.03 1.037 18.28 10.15 14.11 -3.96 0.000 118 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
AVE. OF END POINTS 0.32 0.08 0.62 0.63 0.68 0.88 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
25 0.15 0.38 0.68 A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	MD	O3	GAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	MP	AVFM	SDFM		
831101	1 5 28.19	44N13.87	114W 3.13	8.64	3.30	34	9	83	1	0.10	0.5	0.8	A	AJA	0.47	10	74	0.00	0.07	0	0.0	0.0	12	3.3	0.4		
SE OF ORIG = 0.041																											
7 ITERATIONS TOTAL																											
STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)																											
STN	DIST	AIM	AIN	PSEC	PRMK	TCDR	DTTOS	TTCAL	DELAY	EDLY	P	RES	P	WT	THIC	SSEC	SRMK	TTDB	TTCAL	S-RES	S-WT	AMX	PR	KMAG	R	PR	FMAG
NMSUI	3.6	44	155	29.95	P00		1.76	1.68			0.07	1.046				0.00	-28.19	2.94	-31.14	0.000				119	1		
AMPI	6.0	143	141	30.12	P 0		1.93	1.89			0.03	1.046				0.00	-28.19	3.31	-31.51	0.000				119	1		
445	7.8	315	133	0.001P 4			-28.19	2.09			-30.28	0.000				42.42	14.23	3.66	10.57	MO.000				119	1		
817	8.8	327	129	30.331P0			2.14	2.20			-0.06	1.046				0.00	-28.19	3.93	-32.13	0.000				119	65	2.81	
MSUI	9.2	99	128	30.62	P00		2.43	2.25			-0.18	1.046				0.00	-28.19	3.93	-32.13	0.000				119	1		
816	9.2	122	128	30.431P0			2.24	2.25			-0.01	1.046				0.00	-28.19	4.04	-32.23	0.000				119	1		
MSUI	9.7	85	126	30.50	PC0		2.31	2.31			0.00	1.046				32.18	3.99	4.10	-0.11	0.732				119	1		
842	9.9	140	125	30.55EP0			2.36	2.34			0.02	1.046				0.00	-28.19	4.10	-0.11	0.732				119	55	2.71	
814	10.5	150	123	30.651P0			2.46	2.43			0.03	1.046				0.00	-28.19	4.31	-32.51	0.000				119	1		
85U2	10.8	35	122	30.62	PC0		2.43	2.46			-0.04	1.046				0.00	-28.19	4.31	-32.51	0.000				119	1		
844	13.2	16	115	30.84EP0			2.65	2.80			-0.15	1.046				33.06	4.87	4.90	-0.03	0.732				119	1		
815	13.3	244	115	31.161PC			2.97	2.81			0.16	1.046				33.92	5.73	5.73	0.00	0.732				119	84	3.11	
839	16.3	117	108	31.491P			3.30	3.27			-0.02	1.046				0.00	-28.19	5.74	-34.23	0.000				119	1		
M-2	16.3	118	108	31.60	P 0		3.41	3.28	0.17		-0.04	1.046				0.00	-28.19	5.74	-34.23	0.000				119	1		
OSPI	17.7	94	106	31.58	P00		3.39	3.48			-0.10	1.046				0.00	-28.19	6.10	-34.29	0.000				119	1		
81	19.1	359	104	31.801PC			3.61	3.71			-0.11	1.046				0.00	-28.19	6.10	-34.29	0.000				119	69	2.91	
M8AI	20.1	124	102	32.07	PC0		3.88	3.87			0.01	1.046				0.00	-28.19	6.77	-34.97	0.000				119	1		
CM8I	20.7	145	102	32.24	PC0		4.05	3.98			0.07	1.046				0.00	-28.19	6.96	-35.16	0.000				119	1		
M-1	23.5	140	99	32.95	P 0		4.76	4.41	0.30		0.05	1.046				0.00	-28.19	7.72	-36.44	0.000				119	1		
81PI	24.8	161	98	32.92	PC0		4.73	4.63			0.10	1.046				35.22	7.03	8.10	-1.07	0.000				119	1		
841	25.1	177	98	0.001P 4			-28.19	4.67			-32.87	0.000				36.24	8.05	8.18	-0.13	0.732				119	1		
81CI	27.6	180	97	33.15	PC0		4.96	5.08			-0.12	1.046				0.00	-28.19	8.80	-37.08	0.000				119	1		
812	28.1	181	97	33.341PC			5.15	5.14			0.00	1.046				0.00	-28.19	9.09	-37.28	0.000				119	1		
LSGS	28.4	107	96	33.25	PC0		5.06	5.19			-0.13	1.046				0.00	-28.19	10.19	-38.39	0.000				119	1		
LCRI	32.2	131	95	34.00	PC0		5.81	5.83			-0.02	1.046				0.00	-28.19	10.19	-38.39	0.000				119	60	2.91	
811	37.6	149	94	34.901P0			6.79	6.69			0.09	1.046				40.70	12.51	12.39	0.12	0.732				119	86	3.21	
838	39.9	120	94	35.19EP0			7.00	7.08			-0.08	1.046				0.00	-28.19	12.51	12.39	0.12	0.732			119	1		
86	48.0	128	93	36.57EP0			8.30	8.39			-0.01	1.046				0.00	-28.19	12.51	12.39	0.12	0.732			119	86	3.21	
84	51.8	146	92	37.201P0			9.01	9.00			0.01	1.046				0.00	-28.19	12.51	12.39	0.12	0.732			119	100	3.41	
97	58.7	139	92	38.471P			10.28	10.12	0.28		-0.13	1.046				40.70	12.51	12.39	0.12	0.732				119	114	3.51	
88PM	68.3	43	91	43.40	PC0		15.21	14.93			0.28	1.046				0.00	-28.19	26.12	-54.31	0.000				119	86	3.21	
JGI	111.0	98	65	48.31	P 4		20.12	18.49			1.63	0.000				54.29	26.10	32.35	-6.26	0.000				119	100	3.41	
C18	128.4	136	65	49.00	P 0		21.61	21.05			0.56	MO.000				66.19	38.00	36.83	1.17	0.000				119	114	3.51	
881	161.5	180	65	54.77	P 0		26.58	25.92			0.20	MO.000				0.00	-28.19	45.35	-73.55	0.000				119	89	3.51	
TMI	200.2	121	50	59.87	P 0		31.68	31.48			-0.40	MO.000				84.66	56.47	55.08	1.38	0.000				119	91	3.71	
LRM	217.3	36	50	1.40	P00		33.21	33.61			-0.40	MO.000				27.10	58.91	58.82	0.09	0.000				119	91	3.81	
8UT	230.1	31	50	6.50	P 0		38.31	35.22			3.09	MO.000				29.40	61.21	61.63	-0.43	0.000				119	1		
IPW	252.0	98	50	6.10	P 0		37.99	37.96			0.30	MO.000				37.67	69.48	66.42	3.05	0.000				119	89	4.01	
PMI	262.9	152	50	9.73	P 0		41.54	39.32			2.22	MO.000				0.00	-28.19	26.12	-54.31	0.000				119	1		
M50	288.9	2	50	10.00	P 0		41.81	42.57			-0.76	MO.000				0.00	-28.19	26.12	-54.31	0.000				119	1		
SKM	308.0	46	50	13.70	P 0		45.51	45.06			0.45	MO.000				0.00	-28.19	26.12	-54.31	0.000				119	1		
NCM	330.2	353	50	15.80	P00		47.61	47.73			-0.12	MO.000				0.00	-28.19	26.12	-54.31	0.000				119	1		

QUALITY EVALUATION

83/11/ 1 2/47 BEGIN BEGIN BEGIN 83/11/ 1 2/47

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SDM NF AVFM SDFM
J31101 247 43.37 44N 8.54 113W57.11 5.20 2.48 29 5 76 1 0.16 0.7 0.8 8 DIA 0.16 10 53 0.00 0.12 0 0.0 0.0 9 2.5 0.3
SE OF ORIG = 0.043 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYM DIST AZM AIM PSEC PRMK+TCOR=0-TYOB-TYCAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TYOB TYCAL S-RES S-WT AMX PR XMAG R PMP FMAG
042 2.0 323 151 0.001P 4 -43.37 1.09 -44.46 0.000 45.35 1.98 1.91 0.07 0.715 121 29 2.11
314 2.9 287 150 44.541PC 1.17 1.10 -0.07 1.021 121 40 2.41
316 5.0 357 135 44.611PC 1.24 1.33 -0.09 1.021 121 1
AMPI 6.7 319 126 45.12 PCO 1.75 1.56 0.19 1.021 121 1
M-2 6.0 70 126 45.00 PCO 1.63 1.58 0.17 -0.12 1.021 121 1
B39 6.9 69 125 45.031P 1.66 1.59 -0.07 1.021 121 1
CHBI 8.1 152 121 45.05 PCO 1.68 1.77 -0.09 1.021 121 1
WSUI 8.5 7 120 45.15 PCO 1.70 1.82 -0.04 1.021 121 1
M01 8.7 100 119 45.26 PCO 1.89 1.85 -0.04 1.021 121 1
M-1 10.7 139 114 45.91 PCO 2.54 2.19 0.30 0.05 1.021 121 1
NSUI 10.9 9 114 45.49 PCO 2.12 2.22 -0.10 1.021 121 1
DSPI 12.8 48 110 45.72 PCO 2.35 2.54 -0.19 1.021 121 1
0RPI 13.6 140 109 46.22 PCO 2.85 2.67 0.18 1.021 121 1
NSUI 13.7 336 109 46.01 PCO 2.64 2.68 -0.04 1.021 121 1
DSUI 18.7 355 104 46.83 P+0 3.46 3.55 -0.08 1.021 121 1
LSGS 19.1 86 103 46.95 PCO 3.58 3.61 -0.03 1.021 121 1
812 20.1 206 103 47.161PC 3.79 3.79 0.00 1.021 121 1
815 20.3 281 103 47.161PC 3.79 3.82 -0.02 1.021 121 1
817 21.5 323 102 47.331PC 3.96 4.02 -0.06 1.021 121 1
811 25.0 153 100 47.961P 4.59 4.64 -0.05 1.021 121 1
81 30.1 344 98 48.831P 5.46 5.54 -0.08 1.021 121 1
86 35.7 123 65 49.681PC 6.31 6.52 -0.21 1.021 121 1
88 39.1 145 65 50.231PC 6.86 7.07 -0.21 1.021 121 1
87 46.0 138 65 51.471PC 8.10 8.19 0.28 -0.37 1.021 121 1
MPI 83.6 125 65 57.83 P 0 14.46 14.30 0.16 1.021 121 1
8PM 91.1 35 65 59.20 PCO 15.83 15.51 0.32 1.021 121 1
JGI 102.2 93 65 59.76 P 0 17.39 17.32 0.07 1.021 121 1
C14 115.7 135 55 3.27 P 0 19.90 19.47 0.43 1.021 121 1
G81 152.2 96 55 8.59 P 0 25.22 24.84 0.3800.000 121 1
TMI 188.5 120 55 13.55 P 0 30.18 30.17 0.0100.000 121 1
LRM 221.0 32 44 17.50 PCO 34.13 34.48 -0.3500.000 121 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E SE N NW Z NE SW
AVE. OF END POINTS 0.05 0.06 0.08 0.09 0.09 0.10 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
1 0.16 -0.01 0.09

END END END END END END

03/11/ 1 4/37 BEGIN-----BEGIN-----83/11/ 1 4/37

HORIZONTAL SE = 7.48 SE = 99.00 QUALITY = 0
AZ = -126. AZ = -36.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERI Q SQO AOJ IM NR AVR AAR NM AVXM SOXM MF AVFM SOFM
831101 437 47.90 44N49.17 114W38.54 5.35 13 86 342 1 0.16 99.0 99.0 0 DID 2.78 10 30 0.00 0.14 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 10.000 11 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AIM AIM PSEC PRMK+TCOR-D+TTOTB-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
35U2 77.6 137 65 1.42 P00 13.52 13.30 0.22 1.000 0.00 12.10 23.28-11.17 0.000
NMSI 79.9 142 65 1.45 P00 13.55 13.68 -0.12 1.000 0.00 12.10 23.94-11.83 0.000
NSUI 85.7 139 65 2.37 P 0 14.47 14.63 -0.15 1.000 0.00 12.10 25.60-13.49 0.000
AMPI 86.5 144 65 2.92 P 0 15.02 14.75 0.27 1.000 9.62 21.72 25.82 -4.09 0.000
MSUI 87.2 140 65 2.68 P00 14.78 14.86 -0.07 1.000 0.00 12.10 26.00-13.90 0.000
DSPI 92.8 136 65 3.68 PC0 15.78 15.77 0.01 1.000 0.00 12.10 27.60-15.50 0.000
M-2 95.3 140 65 4.00 P 0 16.10 16.18 0.17 -0.24 1.000 0.00 12.10 28.31-16.51 0.000
MBAI 99.5 140 65 4.64 P 0 16.74 16.86 -0.12 1.000 0.00 12.10 29.51-17.41 0.000
M-1 103.9 143 65 5.90 P 0 18.00 17.58 0.30 0.13 1.000 0.00 12.10 30.76-19.18 0.000
BRCI 104.1 153 65 5.35 PC0 17.45 17.62 -0.16 1.000 0.00 12.10 30.83-18.72 0.000
LSGS 104.4 135 65 5.54 P 0 17.64 17.66 -0.02 1.000 0.00 12.10 30.91-18.81 0.000
BRPI 104.5 148 65 5.72 P40 17.02 17.67 0.15 1.000 13.92 26.02 30.93 -4.90 0.000
OPM 106.1 90 65 3.30 PC0 15.40 17.93 -2.53M0.000 0.00 12.10 31.38-19.27 0.000
LCRI 112.0 141 65 6.90 P 0 19.00 18.89 0.11 1.000 0.00 12.10 33.07-20.56 0.000
LRM 204.0 57 44 24.50 PC0 36.60 32.44 4.16M0.000 0.00 12.10 56.77-44.67 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N NW I E NE SW
AVE. OF END POINTS 0.01 0.03 0.03 0.03 0.04 0.05 0.06

NUMBER RMS MIN DRMS AVE DRMS QUALITY
13 0.16 0.00 0.04 0

33/11/ 1 4/48 BEGIN-----BEGIN-----83/11/ 1 4/48

HORIZONTAL SE = 1.90 VERTICAL SE = 1.90
AZ = -12. AZ = -102. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AVIM SDIM NF AVFM SDIM
831101 448 32.96 44N14.11 114W 5.12 7.20 3.07 23 8 186 1 0.15 1.5 1.9 C 810 0.17 10 57 0.00 0.12 0 0.0 0.0 8 3.1 0.3
SE OF ORIG = 0.102 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
SYM DIST AZM AIM PSEC PRMKTCDR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
MMS1 5.6 67 136 34.65 PCO 1.69 1.67 0.02 1.041 0.00-32.96 2.92-35.08 0.000 123 57 2.71
MMS1 7.2 342 128 34.74 PCO 1.78 1.86 -0.07 1.041 0.00-32.96 3.48-36.44 0.000 123 67 2.91
MMS1 8.2 130 123 35.02 P 0 2.06 1.99 0.07 1.041 0.00-32.96 4.40-37.36 0.000 123 1
MMS1 11.7 117 109 35.61 PCO 2.65 2.49 0.16 1.041 37.43 4.47 4.46 0.01 0.729 123 1
MMS1 11.9 99 109 35.48 PCO 2.52 2.51 0.01 1.041 0.00-32.96 4.50-37.46 0.000 123 1
MMS1 12.1 132 108 0.00 PCO -32.96 2.55 -35.51 0.000 0.00-32.96 4.54-37.50 0.000 123 63 2.81
MMS1 12.2 47 107 35.22 PCO 2.26 2.57 -0.31 1.041 38.13 5.17 4.91 0.26 0.729 123 1
MMS1 12.3 88 107 35.45 PCO 2.49 2.59 -0.10 1.041 0.00-32.96 10.82-43.78 0.000 123 70 2.91
MMS1 12.4 140 106 35.63 PCO 2.67 2.60 0.07 1.041 0.00-32.96 6.38-39.64 0.000 123 1
MMS1 13.7 27 102 35.62 PCO 2.66 2.81 -0.15 1.041 0.00-32.96 7.41-40.37 0.000 123 1
MMS1 18.8 8 92 36.48 PCO 3.52 3.63 -0.11 1.041 0.00-32.96 7.46-40.42 0.000 123 1
MMS1 18.9 115 92 36.80 PCO 3.84 3.65 0.17 0.00-32.96 8.27-41.76 0.000 123 1
MMS1 20.3 95 92 36.73 PCO 3.77 3.88 0.01 1.041 41.07 8.11 8.46 -0.35 0.000 123 1
MMS1 22.5 122 91 37.16 P 0 4.20 4.23 -0.03 1.041 0.00-32.96 9.82-42.78 0.000 123 1
MMS1 22.7 141 91 37.35 P 0 4.39 4.26 0.13 1.041 48.18 15.22 15.47 -0.25 0.729 123 1
MMS1 25.6 136 91 38.00 P 0 5.04 4.73 0.30 0.01 1.041 65.99 33.03 33.22 -0.19 0.000 123 68 3.21
MMS1 26.2 156 91 37.87 PCO 4.91 4.83 0.08 1.041 0.00-32.96 37.57-70.53 0.000 123 72 3.41
MMS1 31.0 107 91 38.44 PCO 5.48 5.61 -0.13 1.041 0.00-32.96 46.22-79.18 0.000 123 88 3.61
MMS1 34.5 129 91 39.30 PCO 6.34 6.18 -0.09 1.041 0.00 27.04 59.34-32.30 0.000 123 1
MMS1 39.4 146 90 39.84 PCO -32.96 8.84 -41.80 0.000 0.00 27.04 67.28-40.24 0.000 123 1
MMS1 50.9 138 90 0.00 PCO 15.54 15.17 0.37 1.041 0.00 27.04 69.44-42.40 0.000 123 1
MMS1 89.8 44 90 48.50 PCO 113.7 98 65 53.01 P 4 20.05 18.98 1.07 0.000 0.00 27.04 74.68-47.84 0.000 123 1
MMS1 113.7 98 65 53.01 P 4 22.07 21.47 0.60 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 130.6 135 65 55.03 P 0 26.92 26.41 0.51 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 146.2 100 65 59.88 P 0 32.11 31.94 0.17 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 202.7 121 50 5.07 P 0 33.34 33.91 -0.57 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 218.4 36 50 6.30 P 0 39.67 38.44 1.23 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 254.7 98 50 12.63 P 0 41.65 39.68 1.97 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 264.6 151 50 14.61 P 0 41.84 42.67 -0.83 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 288.5 2 50 14.80 P 0 47.54 47.79 -0.25 0.000 0.00 27.04 83.63-56.59 0.000 123 1
MMS1 329.5 353 50 20.50 PCO 47.54 47.79 -0.25 0.000 0.00 27.04 83.63-56.59 0.000 123 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E Z N SE SW NE
AVE. OF END POINTS 0.03 0.08 0.10 0.10 0.10 0.11 0.12 0.13

SE = 0.56 HORIZONTAL SE = 0.80 VERTICAL
AZ = -36. AZ = -126. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SOXM NF AVFM SOFM
831101 5 2 46.75 44N 2.99 113W53.44 6.64 3.0Y 31 6 84 1 0.19 0.0 0.9 8 BIA 0.06 10 61 0.00 0.15 0 0.0 0.0 13 3.1 0.4
SE OF ORIG = 0.045 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYM DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTCAL-EDLY+ P-RES P-WT THIC SSC SRMK TT0B TTICAL S-RES S-WT AMX PR IMAG R FMP FMAQ
M-1 3.1 45 155 48.55 P00 1.80 1.34 0.30 0.15 1.030 0.00-46.75 2.35-49.63 0.000 124 1
CMBI 3.3 339 133 48.15 PC0 1.40 1.36 0.04 1.030 0.00-46.75 2.38-49.13 0.000 124 1
DRPI 6.0 236 137 48.62 PC0 1.87 1.64 0.23 1.030 0.00-46.75 2.07-49.62 0.000 124 1
CBAI 9.5 22 124 48.91 PC0 2.16 2.12 0.03 1.030 0.00-46.75 3.72-50.47 0.000 124 1
LCRI 11.5 95 119 49.40 PC0 2.65 2.41 0.23 1.030 0.00-46.75 4.23-50.98 0.000 124 1
M-2 12.7 7 116 49.40 P00 2.65 2.61 0.17 -0.14 1.030 0.00-46.75 4.57-51.62 0.000 124 1
839 12.8 7 116 49.521P 2.77 2.63 0.13 1.030 51.43 4.68 4.61 0.07 0.721 124 1
814 13.5 325 115 49.461PC 2.71 2.74 -0.04 1.030 50.93 4.18 4.80 -0.63 0.000 124 43 2.51
311 13.7 151 114 49.551PC 2.80 2.78 0.02 1.030 51.65 4.90 5.27 -0.37 0.000 124 63 2.81
8RCI 15.1 250 112 49.75 PC0 3.00 3.01 -0.01 1.030 0.09 1.030 124 100 3.21
812 15.8 240 111 49.961PC 3.21 3.12 -0.13 1.030 124 60 2.81
816 16.1 341 111 49.801PC 3.05 3.18 -0.22 1.030 0.00-46.75 6.10-52.85 0.000 124 1
ANPI 17.9 329 109 50.02 P+0 3.27 3.48 -0.07 1.030 0.00-46.75 6.22-52.98 0.000 124 1
LSGS 18.3 51 108 50.24 PC0 3.49 3.56 -0.03 1.030 52.84 6.09 6.42 -0.33 0.721 124 1
838 19.0 104 108 50.39EPC 3.64 3.67 0.00-46.75 6.44-53.19 0.000 124 1
MSUI 19.1 348 108 50.30 PC0 3.55 3.68 -0.13 1.030 0.00-46.75 6.52-53.27 0.000 124 1
DSPI 19.4 14 107 50.23 P-0 3.48 3.73 -0.25 1.030 0.00-46.75 7.10-53.86 0.000 124 1
MSUI 21.3 351 106 50.73 P-0 3.98 4.06 0.02 1.030 0.00-46.75 8.18-54.94 0.000 124 1
MSUI 25.0 335 65 51.45 P00 4.70 4.68 -0.28 1.030 54.82 8.07 8.25 -0.18 0.721 124 1
846 25.3 133 65 51.191P 4.44 4.72 -0.08 1.030 124 80 3.11
86 26.7 110 65 51.621PC 4.87 4.95 -0.15 1.030 124 85 3.11
88 27.9 141 65 51.751PC 5.00 5.15 -0.18 1.030 124 58 2.81
815 28.6 300 65 51.831PC 5.08 5.26 0.17 1.030 124 90 3.21
8SU2 29.7 347 65 52.35 P00 5.60 5.43 0.17 1.030 124 44 2.61
87 35.2 133 65 53.19EPC 6.44 6.33 0.28 -0.90 0.000 124 81 3.31
d1 41.3 342 65 53.17EPC4 6.42 7.32 0.24 1.030 0.00 13.25 28.71-15.47 0.000 124 1
JGI 97.3 87 65 3.40 PC0 16.65 16.41 0.44 1.030 0.00 13.25 28.72-15.47 0.000 124 1
8PM 97.3 29 65 3.60 P00 16.85 16.41 0.49 1.030 17.66 30.91 30.93 -0.02 0.000 124 83 3.41
C18 105.1 133 65 4.92 P 0 18.17 17.67 0.3300.000 0.00 13.25 41.80-28.56 0.000 124 80 3.51
G81 146.7 93 55 10.97 P 0 24.22 23.89 0.1800.000 38.08 51.33 50.17 1.16 0.000 124 1
TMI 179.2 117 55 15.60 PC0 28.85 28.67 -0.1500.000 0.00 13.25 61.42-48.17 0.000 124 1
LRM 227.4 30 44 21.70 P00 34.95 35.10 1.05M0.000 0.00 13.25 63.59-50.34 0.000 124 83 3.81
IMW 237.3 94 44 24.14 P 2 37.39 36.34 1.58M0.000 0.00 13.25 63.97-50.72 0.000 124 1
MPI 239.1 152 44 24.89 P 0 38.14 36.55 1.58M0.000 0.00 13.25 63.97-50.72 0.000 124 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE NW N NE E SW
AVE. OF END POINTS 0.00 0.01 0.05 0.07 0.08 0.11 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
16 0.19 -0.03 0.07 D

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM MF AVFM SODM
031101 924 4.42 44W 9.54 113W57.73 8.43 2.34 14 3 75 1 0.07 0.7 0.6 A AIA 0.09 10 16 0.00 0.07 0 0.0 0.0 10 2.3 0.3
SE OF ORIG = 0.038 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMKYTCOR-O-TT08-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
042 0.9 295 173 5.921P 1.50 1.53 -0.02 1.045 6.96 2.54 2.67 -0.13 0.731 125 24 2.01
014 2.2 241 164 6.101P 1.68 1.57 0.12 1.045 7.05 2.63 2.74 -0.11 0.000 125 32 2.21
316 3.2 10 157 6.001P 1.58 1.62 -0.04 1.045 7.98 3.56 3.51 0.06 0.731 125 27 2.11
039 7.3 86 134 6.581P 2.08 2.00 0.08 1.045 10.81 6.39 6.52 -0.13 0.000 125 47 2.61
015 19.2 276 102 8.161PD 3.74 3.73 0.02 1.045 125 30 2.21
017 19.5 322 102 8.10EPD 3.68 3.77 -0.09 1.045 125 24 2.01
012 21.5 201 100 8.571PC 4.15 4.09 0.06 1.045 125 37 2.51
011 27.1 153 96 9.39EP 4.97 4.99 -0.02 1.045 125 40 2.51
01 28.0 345 96 9.63EPD 5.21 5.15 0.06 1.045 125 53 2.81
06 37.5 125 94 11.041PD 6.62 6.67 -0.05 1.045
08 41.1 145 93 11.741PD 7.32 7.26 0.06 1.045
07 48.0 139 92 12.941PC 8.52 8.37 0.28 -0.13 1.045

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME Z SW NW E N SE
AVE. OF END POINTS 0.58 0.65 0.70 0.88 0.90 0.94 1.05

NUMBER RMS MIN DRMS AVE DRMS QUALITY
14 0.07 0.55 0.82 A

83/11/ 1 10/30 BEGIN-----BEGIN-----83/11/ 1 10/30

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	ND	D3	GAP	M	RMS	ERW	ERZ	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM	
831101	1030	33.66	44N	7.97	113456.74	9.46	3.18	35	6	76	1	0.14	0.6	0.9	A	AIA	0.73	10.76	0.00	0.10	0	0.0	0.0	9	3.2	0.4
SE DP ORIG = 0.008 3 ITERATIONS TOTAL																										
C- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)																										
STN	DIST	AZM	AIN	PSC	PRMK+TCOR	D-TTDB-TTICAL	DELAY-EOLY	P-RES	P-WT	TMIC	SSEC	SRNK	TTDB	TTICAL	S-RES	S-WT	ANX	PR	XMAG	R	FMP	FMAG				
814	3.7	300	156	35.511PD		1.85	1.81	0.04	1.054		36.74	3.08	3.19	-0.11	0.738						126	57	2.71			
942	3.9	327	155	35.431PD		1.77	1.82	-0.05	1.054												126					
816	6.1	353	144	35.541PD		1.88	2.00	-0.12	1.054												126	90	3.11			
4-2	6.8	61	140	35.85 P00		2.19	2.08	-0.06	1.054												126					
839	6.9	60	140	35.83EPD		2.17	2.08	0.09	1.054		0.00	-33.66	3.63	-37.59	0.000						126					
CM01	7.0	152	140	35.77 P00		2.11	2.09	0.02	1.054		37.46	3.80	3.64	0.15	0.738						126					
AMPI	7.8	322	136	35.78 P00		2.12	2.18	-0.06	1.054		0.00	-33.66	3.66	-37.32	0.000						126					
MBAI	8.1	93	135	35.95 P00		2.29	2.21	-0.06	1.054		0.00	-33.66	3.81	-37.48	0.000						126					
MSUI	9.5	3	130	36.13 P00		2.47	2.37	0.10	1.054		0.00	-33.66	4.13	-37.81	0.000						126					
M-1	9.6	137	129	36.31 P00		2.65	2.39	-0.05	1.054		0.00	-33.66	4.19	-38.38	0.000						126					
MSUI	11.9	5	122	36.28 P00		2.62	2.69	-0.07	1.054		0.00	-33.66	4.71	-38.37	0.000						126					
ORPI	12.6	182	121	36.61 P00		2.95	2.79	0.16	1.054		0.00	-33.66	4.88	-38.54	0.000						126					
DSPI	13.2	44	119	36.38 P00		2.72	2.87	-0.15	1.054		0.00	-33.66	5.02	-38.68	0.000						126					
MWSI	14.8	336	115	36.74 P00		3.08	3.10	-0.02	1.054		0.00	-33.66	5.42	-39.08	0.000						126					
841	15.8	207	113	0.001P 4		-36.66	3.26	-36.92	0.000		39.49	5.83	5.71	0.12	0.738						126					
LSGS	18.7	83	108	37.43 P00		3.77	3.70	0.03	1.054		0.00	-33.66	6.47	-40.13	0.000						126					
LCRI	18.8	123	108	37.40 P00		3.74	3.71	0.03	1.054		0.00	-33.66	6.49	-40.15	0.000						126					
ARCI	18.8	207	108	37.45 P00		3.79	3.71	0.08	1.054		0.00	-33.66	6.49	-40.15	0.000						126					
812	19.4	208	107	37.601PC		3.94	3.80	0.13	1.054		0.00	-33.66	6.49	-40.15	0.000						126					
85U2	19.8	353	107	37.38 P00		3.72	3.86	-0.14	1.054		0.00	-33.66	6.76	-40.42	0.000						126					
815	21.8	284	105	37.671PD		4.01	4.04	-0.03	1.054		40.46	6.80	7.08	-0.28	0.000						126					
817	22.6	324	104	37.781PD		4.12	4.31	-0.19	1.054												126	47	2.61			
811	23.9	153	102	38.19EPD		4.53	4.51	0.02	1.054												126	70	3.01			
844	24.1	348	102	0.001P 4		-33.66	4.54	-38.20	0.000		41.81	8.15	7.95	0.20	0.738						126					
938	26.7	121	100	38.67EPD		5.01	4.95	0.05	1.054		42.30	8.64	8.67	-0.03	0.738						126					
81	31.2	344	98	39.17EPD		5.51	5.67	-0.17	1.054		43.23	9.57	9.93	-0.36	0.000						126	60	2.91			
86	34.8	122	97	40.001PC		6.34	6.25	0.09	1.054		44.09	10.43	11.00	-0.57	0.738						126	77	3.11			
846	35.0	139	97	39.84EPD		6.18	6.29	-0.11	1.054												126					
88	38.0	144	96	40.431PC		6.77	6.76	0.01	1.054												126					
87	44.9	138	95	41.86EPD		8.20	7.88	0.04	1.054												126					
8PM	91.7	34	92	49.50 P00		15.84	15.47	0.37	1.054		0.00	-33.66	27.08	-60.74	0.000						126					
JG1	101.7	93	65	53.66 P 4		20.00	17.06	2.94	0.000		62.09	28.43	29.86	-1.43	0.000						126					
C10	114.6	135	65	53.69 P 4		20.03	18.96	1.07	0.000		68.07	34.41	33.18	1.23	0.000						126	88	3.51			
881	151.6	96	65	58.66 P00		25.00	24.40	0.6000.000			75.85	42.19	42.70	-0.51	0.000						126					
TMI	187.5	119	65	3.64 P00		29.98	29.68	0.3000.000			26.38	52.72	51.94	0.77	0.000						126	93	3.81			
LRM	221.7	32	50	17.10 P 0		43.44	34.08	9.3600.000			0.00	26.34	59.64	-33.30	0.000						126					
SUT	235.6	28	50	12.80 P 0		39.14	35.82	3.3200.000			36.40	62.74	62.69	0.05	0.000						126					
IMW	242.6	96	50	11.34 P 0		37.68	36.69	0.9900.000			0.00	26.34	64.21	-37.87	0.000						126	87	3.91			
MPI	249.3	152	50	13.26 P 0		39.60	37.54	2.0600.000			0.00	26.34	65.69	-39.35	0.000						126					
MLI	276.9	148	50	17.22 P 0		43.56	40.99	2.5700.000			0.00	26.34	71.73	-45.39	0.000						126					
SIM	310.9	44	90	19.50 P 0		45.84	45.23	0.6100.000			0.00	26.34	79.16	-52.82	0.000						126					
NCH	342.1	352	50	22.80 P00		49.14	49.14	0.0000.000			0.00	26.34	85.99	-59.65	0.000						126					

QUALITY EVALUATION

83/11/ 1 10/41 BEGIN-----BEGIN-----83/11/ 1 10/41

HORIZONTAL SE = 0.32 SE = 0.50 VERTICAL SE = 0.41
AZ = -18. AZ = -108. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
331101 10-1 18-25 44N13-22 11-4W 2-63 6-93 3-07 31 8 78 1 0-10 0-5 0-4 A AIA 0-92 10 64 0-00 0-07 0 0-0 0-0 12 3-1 0-4
SE OF ORIG = 0-029 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSC PRMK+TCOR=0-TT08-TTICAL-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT ANX PR MAG R FMP FMSG
MWSI 4-3 26 148 19-74 P00 1-49 1-49 0-00 1-030 0-00-18-25 2-61-20-86 0-000 127 1
ANPI 4-7 140 145 19-87 P00 1-62 1-54 0-08 1-030 0-00-18-25 2-69-20-94 0-000 127 1
B16 8-0 118 130 28-19IPC 1-94 1-94 0-00 1-030 0-00-18-25 2-69-20-94 0-000 127 70 2-91
WSUI 8-4 92 128 20-27 P 0 2-02 1-99 0-03 1-030 0-00-18-25 3-49-21-74 0-000 127 1
B42 8-6 138 128 20-28IP 2-03 2-02 0-01 1-030 21-70 3-45 3-53 -0-09 0-721 127 55 2-71
B14 9-1 150 126 20-40IPD 2-15 2-09 0-06 1-030 0-00-18-25 3-49-21-94 0-000 127 53 2-71
WSUI 9-2 77 126 20-38 PC0 2-13 2-11 0-02 1-030 0-00-18-25 4-26-22-51 0-000 127 65 2-91
B17 10-1 327 123 20-49IPD 2-24 2-24 -0-01 1-030 23-25 5-00 5-05 -0-05 0-721 127 1
BSU2 11-4 29 120 20-76 PC0 2-51 2-43 0-07 1-030 23-58 5-33 5-32 0-01 0-721 127 1
B15 13-4 250 116 21-06IPC 2-81 2-75 0-05 1-030 0-00-18-25 5-33-23-88 0-000 127 1
B44 14-2 12 115 20-99IP 2-74 2-88 -0-15 1-030 0-00-18-25 5-34-24-09 0-000 127 1
B39 15-1 114 113 21-33IP 3-08 3-04 0-04 1-030 0-00-18-25 6-39-24-64 0-000 127 1
M-2 15-2 115 113 21-49 PC0 3-24 3-05 0-02 1-030 0-00-18-25 6-34-24-79 0-000 127 57 2-81
DSPI 17-0 91 111 21-42 PC0 3-17 3-34 -0-17 1-030 0-00-18-25 7-32-26-03 0-000 127 1
MBAI 18-8 123 65 21-85 PC0 3-60 3-65 -0-05 1-030 0-00-18-25 7-70 -1-63 0-000 127 1
CMBI 19-4 145 65 22-05 PC0 3-80 3-74 0-06 1-030 0-00-18-25 8-54-26-79 0-000 127 1
B1 20-3 358 65 22-03IP 3-78 3-88 -0-10 1-030 0-00-18-25 9-82-28-07 0-000 127 1
M-1 22-1 139 65 22-80 P 0 4-55 4-18 0-07 1-030 0-00-18-25 9-82-28-07 0-000 127 1
BRCI 23-5 162 65 22-72 PC0 4-47 4-40 0-07 1-030 0-00-18-25 9-82-28-07 0-000 127 1
BRCI 26-4 182 65 22-95 PC0 4-70 4-88 -0-18 1-030 0-00-18-25 9-82-28-07 0-000 127 1
B12 26-9 183 65 23-21EP 4-96 4-95 0-01 1-030 0-00-18-25 9-82-28-07 0-000 127 1
LSGS 27-4 105 65 23-13 PC0 4-88 5-04 -0-16 1-030 0-00-18-25 9-82-28-07 0-000 127 1
LCRI 30-9 130 65 23-80 PC0 5-55 5-61 -0-06 1-030 0-00-18-25 9-82-28-07 0-000 127 1
B11 36-2 149 65 24-69EP 6-44 6-47 -0-03 1-030 0-00-18-25 9-82-28-07 0-000 127 1
B6 46-8 127 65 26-42EP 8-17 8-18 -0-01 1-030 0-00-18-25 9-82-28-07 0-000 127 1
B8 50-4 143 65 27-04EP 8-79 8-78 0-01 1-030 0-00-18-25 9-82-28-07 0-000 127 1
B7 57-4 139 65 28-50EP 10-25 9-91 0-06 1-030 0-00-18-25 9-82-28-07 0-000 127 1
BPM 88-8 42 65 33-60 PC0 15-35 15-01 0-34 1-030 0-00-18-25 9-82-28-07 0-000 127 1
JGI 110-2 97 65 37-69 P 4 19-44 18-48 0-96 0-000 0-00-18-25 9-82-28-07 0-000 127 1
C18 127-1 136 55 39-84 P00 21-59 20-97 0-620-000 0-00-18-25 9-82-28-07 0-000 127 1
GBI 160-7 99 55 44-75 P 0 26-50 25-91 0-590-000 0-00-18-25 9-82-28-07 0-000 127 1
YMI 199-0 121 44 49-83 P 0 31-58 31-51 0-070-000 0-00-18-25 9-82-28-07 0-000 127 1
LRM 217-9 35 44 51-90 PC0 33-65 33-87 -0-220-000 0-00-18-25 9-82-28-07 0-000 127 1
IMW 251-2 98 44 56-76 P 0 38-51 38-03 0-480-000 0-00-18-25 9-82-28-07 0-000 127 1
MLI 289-4 147 44 1-00 P 2 44-72 42-81 1-910-000 0-00-18-25 9-82-28-07 0-000 127 1
VSD 290-1 2 44 1-00 P 0 42-75 42-89 -0-150-000 0-00-18-25 9-82-28-07 0-000 127 1
NCM 331-5 353 44 6-30 P 0 48-05 48-07 -0-020-000 0-00-18-25 9-82-28-07 0-000 127 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
AVE. OF END POINTS 0-31 0-38 0-66 0-68 0-75 0-86 1-00

NUMBER RMS MIN DRMS AVE DRMS QUALITY

83/11/ 1 12/34 BEGIN-----BEGIN-----83/11/ 1 12/34

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SOXM NF AVPM SDFM
831101 1234 24.95 44N 7.92 113W57.46 10.04 2.91 33 6 79 1 0.15 0.6 1.0 A AIA 0.60 10 54 0.00 0.11 0 0.0 0.0 9 2.9 0.2
SE OF ORIG = 0.054 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSC PRMK+TCOR-D+TDOB-TTCAL-DELT-EDLY- P-RS P-WT THIC SSEC SNRK TTDB TTCLAL S-RES S-WT AMX PR RMAG R FMP FMAQ
814 3.0 311 162 26.901P 1.95 1.86 0.09 1.048 28.15 3.20 3.30 -0.11 0.733 128 50 2.61
842 3.6 341 159 26.831P 1.88 1.89 -0.01 1.048 0.00-24.95 3.85-28.80 0.000 128 80 3.01
816 6.1 2 166 26.961P 2.01 2.08 -0.07 1.048 0.00-24.95 3.86-28.81 0.000 128 1
CWPI 7.3 328 140 27.09 P00 2.14 2.20 -0.06 1.048 0.00-24.95 3.93-29.18 0.000 128 1
CMPI 7.4 145 140 27.25 P00 2.30 2.21 -0.09 1.048 29.07 4.12 3.94 0.18 0.733 128 1
M-2 7.7 64 139 27.34 P00 2.39 2.24 0.17 0.10 1.048 0.00-24.95 4.18-29.13 0.000 128 1
839 7.8 63 138 27.301P 2.35 2.25 0.08 1.048 0.00-24.95 4.31-29.26 0.000 128 1
M8A1 9.0 92 136 27.42 P00 2.47 2.39 -0.13 1.048 0.00-24.95 4.43-29.91 0.000 128 1
4SUI 9.7 9 132 27.29 P00 2.34 2.46 -0.17 1.048 0.00-24.95 4.85-29.81 0.000 128 1
M-1 10.3 133 130 27.62 P00 2.67 2.53 0.30 0.05 1.048 0.00-24.95 4.94-29.90 0.000 128 1
NSUI 12.1 10 124 27.78 P00 2.83 2.77 0.10 1.048 0.00-24.95 5.29-30.24 0.000 128 1
8RPI 12.5 178 123 27.88 PC0 2.93 2.82 -0.11 1.048 0.00-24.95 5.44-30.39 0.000 128 1
JSPI 13.9 46 120 27.87 P00 2.92 3.82 -0.08 1.048 30.67 5.72 5.63 0.08 0.733 128 1
MWSI 14.5 340 118 28.14 P00 3.19 3.11 -28.17 0.000 0.03 1.048 6.42-31.37 0.000 128 1
841 15.3 204 117 0.001P 4 -24.95 3.22 3.70 3.67 0.14 1.048 0.00-24.95 6.75-31.71 0.000 128 1
8RCI 18.3 205 111 28.65 PC0 3.70 3.67 0.09 1.048 0.00-24.95 6.79-31.74 0.000 128 1
812 18.9 206 110 28.851P 3.90 3.76 0.10 1.048 0.00-24.95 6.82-31.78 0.000 128 70 3.01
LCRI 19.6 121 110 28.90 P00 3.95 3.86 0.07 1.048 32.69 7.74 7.95 -0.21 0.733 128 55 2.81
LSGS 19.7 83 109 28.93 P00 3.98 3.88 0.10 1.048 32.28 7.33 8.01 -0.68 0.000 128 63 2.91
8SU2 19.0 356 109 28.67 PC0 3.72 3.90 -0.09 1.048 34.52 9.57 9.92 -0.35 0.000 128 47 2.71
815 20.1 285 109 28.961P 4.01 3.94 0.07 1.048 35.67 10.72 11.19 -0.47 0.733 128 77 3.11
817 22.1 326 106 29.091P 4.14 4.25 -0.11 1.048 0.00-24.95 27.26-52.22 0.000 128 98 3.31
844 24.0 351 104 0.001P 4 -24.95 4.54 0.47 1.048 0.00-24.95 59.86-84.61 0.000 128 58 2.91
811 24.2 151 104 29.511P 4.56 4.58 -0.02 1.048 0.00-24.95 59.86-84.61 0.000 128 1
81 31.0 346 100 30.531P 5.58 5.67 0.03 1.048 0.00-24.95 59.86-84.61 0.000 128 1
86 35.6 121 98 31.371P 6.42 6.39 -0.03 1.048 0.00-24.95 59.86-84.61 0.000 128 1
846 35.6 138 98 31.311P 6.36 6.39 -0.07 1.048 0.00-24.95 59.86-84.61 0.000 128 1
88 38.4 143 97 31.741P 6.79 6.85 0.07 1.048 0.00-24.95 59.86-84.61 0.000 128 1
87 45.5 137 95 33.15EPD 8.20 7.99 0.28 0.47 1.048 0.00-24.95 59.86-84.61 0.000 128 1
8PM 92.3 34 92 41.00 PC0 16.05 15.58 0.47 1.048 0.00-24.95 59.86-84.61 0.000 128 1
LRM 222.3 32 50 58.90 PC0 33.95 34.09 -0.1400.000 0.00-24.95 59.86-84.61 0.000 128 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 NE SW E NW SE N
AVE. OF END POINTS 0.41 0.67 0.67 0.71 0.81 0.92 1.01

NUMBER RMS MIN ORMS AVE DRMS QUALITY
33 0.15 0.46 0.77 A

-----END-----END-----END-----END-----

03/11/ 1 13/41 BEGIN-----BEGIN-----03/11/ 1 13/41

SE = 0.23 HORIZONTAL SE = 0.37 VERTICAL
 AZ = -27. AZ = -117. SE = 0.42 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SDXM MF AVFM SDFM
 831101 1361 54.87 44N 5.50 113W54.36 7.80 2.18 13 9 99 1 0.05 0.4 0.4 0 A10 0.61 10 15 0.00 0.04 0 0.0 0.0 0 2.2 0.3
 SE OF ORIG = 0.021 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIM PSEC PRMK+TCOR-D+TTCOR-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT00 TTCL S-RES S-WT AMX PR RMAG R FMP FMAG
 837 3.0 186 156 56.38EP 1.51 1.52 -0.01 1.048 57.49 2.62 2.65 -0.03 0.734 129 1
 839 8.5 19 126 56.98IP 2.11 2.08 0.01 1.048 58.51 3.64 3.63 0.01 0.734 129 1
 814 9.1 315 123 57.04IPD 2.17 2.16 0.01 1.048 58.70 3.83 3.79 0.04 0.000 129 19 1.81
 812 17.6 225 100 58.41IP 3.54 3.45 0.09 1.048 129 60 2.81
 811 18.4 155 99 58.44IPC 3.57 3.56 0.01 1.048 129 30 2.21
 815 25.5 292 94 59.51IPC 4.64 4.72 -0.08 1.048 129 27 2.11
 817 28.2 324 93 60.00EP 5.13 5.16 -0.03 1.048 129 19 1.81
 86 29.7 118 93 60.27IPC 5.40 5.41 -0.01 1.048 129 28 2.21
 88 32.4 144 93 60.64IPD 5.77 5.84 -0.07 1.048 129 29 2.21
 91 36.5 341 92 61.42EPD 6.55 6.51 0.04 1.048 129 1
 97 39.4 137 92 62.16IPC 7.29 6.97 0.28 0.04 1.048 129 29 2.21

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E MW N SE
 AVE. OF END POINTS 0.53 0.70 0.77 0.94 1.05 1.11 1.14

NUMBER RMS MIN DRMS AVE DRMS QUALITY
 13 0.05 0.63 0.93 A

83/11/ 1 16/46 -----BEGIN----- 83/11/ 1 16/46 -----BEGIN-----

HORIZONTAL SE = 0.29 SE = 0.44 VERTICAL SE = 0.67
 AZ = -23. AZ = -119. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERH ERZ Q SDO ADJ IN NR AVR AAR NM AVXM SDOH NF AVFM SDOH
 831101 1646 12.53 48N12.07 114W 1.56 8.92 2.75 26 6 73 1 0.08 0.4 0.7 A AIA 0.30 10 42 0.00 0.06 0 0.0 0.0 7 2.7 0.4
 SE OF ORIG = 0.033 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
 STN DIST AZM AIN PSEC PRMK+TCOR-D=TTOTB-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TTOT TTCAL S-RES S-WT AMX PR XHAG R FMP FMAG
 ANP1 2-2 133 165 14.20 P00 1.67 1.64 0.02 1.036 0.00-12.53 2.87-15.41 0.000 131 1
 MW1 6-0 4 142 14.43 P00 1.90 1.92 -0.02 1.036 0.00-12.53 3.36-15.89 0.000 131 1
 842 6-1 135 142 0.001P 4 -12.53 1.93 -14.46 0.000 15.77 3.24 3.37 -0.14 0.725 131 1
 814 6-6 151 140 14.551PC 2.02 1.98 0.04 1.036 0.00-12.53 3.59-16.12 0.000 131 35 2.31
 W5U1 7-2 75 137 14.70 P00 2.17 2.05 0.12 1.036 0.00-12.53 4.15-16.69 0.000 131 1
 85U3 10-0 359 126 15.00 P 0 2.47 2.37 0.09 1.036 0.00-12.53 4.91-17.74 0.000 131 23 2.21
 817 12-7 327 118 15.261P0 2.73 2.76 -0.03 1.036 17.47 4.94 4.90 0.03 0.725 131 1
 339 13-0 108 117 15.431P 2.90 2.80 0.09 1.036 0.00-12.53 5.59-18.13 0.000 131 1
 M-2 13-1 109 117 15.59 P00 3.06 2.81 0.17 0.08 1.036 18.08 5.55 5.71 -0.16 0.725 131 1
 815 14-2 260 114 15.551PC 3.02 2.98 0.03 1.036 0.00-12.53 5.83-18.36 0.000 131 1
 DSP1 15-6 83 111 15.71 P00 3.18 3.20 -0.02 1.036 0.00-12.53 5.90-18.44 0.000 131 1
 844 16-1 5 110 0.001P 4 -12.53 3.26 0.07 1.036 0.00-12.53 6.66-19.72 0.000 131 1
 W8A1 16-5 119 109 15.93 P00 3.40 3.33 0.07 1.036 19.62 7.09 7.06 0.03 0.000 131 43 2.51
 CHM1 16-0 145 109 15.85 P00 3.32 3.37 -0.06 1.036 0.00-12.53 8.00-20.53 0.000 131 113 3.41
 M-1 19-6 138 104 16.43 P00 3.90 3.81 0.30 0.05 1.036 0.00-12.53 8.30-20.84 0.000 131 1
 8RPI 21-0 164 103 16.62 P00 4.09 4.03 4.28 4.27 0.01 1.036 0.00-12.53 9.13-21.67 0.000 131 1
 81 22-5 354 101 16.811PC 4.50 4.57 -0.07 1.036 22.61 10.08 10.58 -0.51 0.000 131 60 2.91
 8RC1 24-4 185 100 17.03 P00 4.67 4.64 0.02 1.036 0.00-12.53 9.13-21.67 0.000 131 70 3.11
 812 24-9 186 99 17.201P 4.71 4.74 0.04 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 L5S5 25-5 102 99 17.24 P 0 5.17 5.22 -0.05 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 LCRI 28-5 129 97 17.70 P00 6.11 6.05 0.06 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 811 33-6 149 96 18.641PC 7.83 7.79 0.03 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 86 44-3 126 94 20.361PC 8.41 8.37 0.04 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 88 47-9 143 93 20.941PC 9.73 9.49 0.28 -0.05 1.036 0.00-12.53 10.58 -0.51 0.000 131 1
 37 54-8 138 93 22.261P 9.73 9.49 0.28 -0.05 1.036 0.00-12.53 10.58 -0.51 0.000 131 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
 AVE. OF END POINTS 0.39 0.54 0.67 0.74 0.77 0.92 0.95

NUMBER RMS MIN RMS AVE RMS QUALITY
 26 0.08 0.45 0.74 A

-----END-----END-----END-----

83/11/ 1 18/20 BEGIN-----BEGIN-----83/11/ 1 18/20

HORIZONTAL SE = 0.56 SE = 0.97 VERTICAL SE = 0.96
AZ = -45. AZ = 45. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831101 1820 16.88 44N10.39 113W59.21 10.02 2.45 12 9 77 1 0.09 1.0 1.0 8 81A 0.42 10 13 0.00 0.07 0 0.0 0.0 8 2.4 0.3
SE OF ORIG = 0.055 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELT-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR KMAG R FMP FMAG
842 1.6 136 170 0.001P 4 -16.88 1.80 0.12 1.053 0.00 1.053 19.96 3.08 3.15 -0.07 0.737 133 30 2.21 1
816 3.0 59 162 18.851P 1.97 1.85 0.00 1.053 21.09 4.21 4.23 -0.02 0.737 133 30 2.21 1
839 9.3 96 133 19.301P 2.42 2.41 -0.10 1.053 0.00 1.053 133 24 2.01 1
817 17.1 324 113 20.261P 3.38 3.48 -0.07 1.053 0.00 1.053 133 49 2.61 1
815 17.1 272 113 20.441P 3.56 3.49 -0.02 1.053 0.00 1.053 133 63 2.91 1
812 22.4 195 106 21.151P 4.27 4.29 -0.02 1.053 0.00 1.053 133 22 2.01 1
81 26.1 348 103 21.731P 4.85 4.87 -0.05 1.053 0.00 1.053 133 40 2.51 1
811 29.4 151 180 22.331P 5.45 5.40 -0.08 1.053 0.00 1.053 133 50 2.81 1
86 40.0 125 97 24.061P 7.18 7.10 -0.22 1.053 0.10 1.053 133 44 2.71 1
88 43.5 144 96 24.331P 7.45 7.67 0.16 8.78 0.28 0.10 1.053 133 44 2.71 1
87 50.4 139 95 26.041P 9.16 8.78 0.28 0.10 1.053 133 44 2.71 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME Z SW E MW N SE
AVE. OF END POINTS 0.55 0.64 0.69 0.88 0.89 0.93 1.03

83/11/ 1 19/ 9 BEGIN-----BEGIN-----83/11/ 1 19/ 9

HORIZONTAL SE = 0.45 SE = 0.78 VERTICAL SE = 0.57
AZ = -68. AZ = 22. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831101 19 9 8.74 44N11.08 113W57.79 4.85 2.07 11 9 125 1 0.07 0.8 0.6 8 81B 0.06 10 13 0.00 0.06 0 0.0 0.0 y 2.1 0.1
SE OF ORIG = 0.042 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELT-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR KMAG R FMP FMAG
816 0.7 67 172 9.061P04 1.12 0.91 0.21 0.000 10.41 1.67 1.78 -0.11 0.740 134 27 2.01 1
842 2.6 197 151 9.741P 1.00 1.02 -0.02 1.058 11.75 3.01 2.92 0.09 0.740 134 27 2.01 1
839 7.7 107 120 10.501P 1.76 1.67 0.09 1.058 134 29 2.11 1
84 9.2 82 116 10.611P 1.87 1.92 -0.06 1.058 134 23 1.91 1
817 17.3 316 104 11.991P 3.25 3.28 -0.03 1.058 134 27 2.11 1
815 19.0 268 102 12.421P 3.68 3.58 0.10 1.058 134 23 2.01 1
81 25.3 343 99 14.041P04 5.30 4.69 0.06 0.000 134 29 2.11 1
811 29.6 155 98 14.261P 5.52 5.46 0.06 1.058 134 23 2.01 1
86 39.2 128 65 15.731P 6.99 7.11 -0.13 1.058 134 34 2.61 1
88 43.5 147 65 16.531P 7.79 7.81 -0.02 1.058 134 21 2.01 1
87 50.2 141 65 17.951P 9.21 8.89 0.28 0.04 1.058 134 21 2.01 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME SE SW E Z N NE
AVE. OF END POINTS 0.64 0.12 0.14 0.15 0.15 0.15 0.14

83/11/1

.....

83/11/ 1 21/36 -----BEGIN-----BEGIN-----83/11/ 1 21/36

HORIZONTAL SE = 0.29 SE = 0.44 VERTICAL SE = 0.80
AZ = -23. AZ = -113. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SOXM MP AVFM SOFM
831101 2136 45.65 44N 8.74 113W56-62 7.51 2.91 24 6 73 1 0.08 0.4 0.8 A 1.06 10 39 0.00 0.06 0 0.0 0.0 7 2.9 0.2
SE OF ORIG = 0.031 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTICAL-DELAY-EDLY- P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 4.7 349 144 47.321PD 1.67 1.61 0.06 1.045 0.00-45.65 3.08-49.03 0.000 137 62 2.81
M-2 6.1 72 135 47.59 P00 1.94 1.76 0.17 0.01 1.045 48.77 3.12 3.09 0.03 0.732 137 1
339 6.1 70 135 47.59IP 1.84 1.77 0.08 1.045 0.00-45.65 3.24-48.88 0.000 137 1
AMPI 6.9 313 131 47.34 P00 1.69 1.95 -0.16 1.045 0.00-45.65 3.48-49.13 0.000 137 1
MSUI 8.0 3 126 47.61 P00 1.96 1.99 -0.03 1.045 0.00-45.65 3.49-49.14 0.000 137 1
MBAI 8.1 103 126 47.73 P-1 2.08 1.99 0.09 0.588 49.36 3.71 3.82 -0.11 0.732 137 1
837 9.4 163 120 47.79IP 2.14 2.18 -0.04 1.045 0.00-45.65 4.06-49.71 0.000 137 1
84 9.5 53 120 47.80IP 2.15 2.19 -0.01 1.045 0.00-45.65 4.13-50.30 0.000 137 1
MSUI 10.5 5 116 47.96 P00 2.31 2.32 0.07 1.045 50.31 4.66 4.92 -0.26 0.000 137 1
M-1 10.6 143 115 48.38 P00 2.73 2.36 0.30 0.07 1.045 0.00-45.65 5.03-50.68 0.000 137 1
O3PI 12.1 48 111 48.29 P00 2.64 2.57 -0.01 1.045 0.00-45.65 6.00-51.65 0.000 137 1
MSUI 13.6 333 106 48.45 P00 2.80 2.91 0.13 1.045 0.00-45.65 6.23-51.90 0.000 137 1
88PI 14.0 183 105 48.65 P00 3.00 2.87 0.02 1.045 0.00-45.65 6.55-52.20 0.000 137 1
8SU3 17.5 337 97 49.10 P 3.45 3.43 -0.24 1.045 0.00-45.65 6.74-52.39 0.000 137 1
LSG3 18.4 87 96 49.21 P00 3.56 3.57 0.04 1.045 52.60 6.95 6.94 0.01 0.000 137 94 3.21
LCRI 19.5 126 95 49.15 P00 3.50 3.74 0.02 1.045 137 61 2.81
88C1 20.2 206 95 49.44 P00 3.79 3.85 0.02 1.045 137 48 2.61
812 20.8 207 94 49.64IPC 3.99 3.95 0.11 1.045 137 60 2.81
815 20.9 280 94 49.64IPC 3.99 3.97 0.02 1.045 137 90 3.21
817 21.6 321 94 49.75EP 4.10 4.08 -0.02 1.045 137 58 2.91
811 25.1 154 93 50.40EPC 4.75 4.64 137 60 2.81
88 39.0 146 91 52.55EP 6.90 6.92 137 90 3.21
87 45.9 139 91 54.31EP 4 8.66 8.03 0.28 0.35 0.000 137 58 2.91

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 NE SW E NW SE N
AVE. OF END POINTS 0.27 0.61 0.79 0.79 0.85 0.87 1.01

NUMBER RMS MIN DRMS AVE DRMS QUALITY
24 0.08 0.37 0.79 A

83/11/ 1 23/42 BEGIN BEGIN BEGIN 83/11/ 1 23/42

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOKM MF AVFM SOFM
831101 2342 29.30 44N12.07 114W 2.36 9.03 3.05 28 7 75 1 0.11 0.6 0.8 A AIA 0.06 10 60 0.00 0.08 0 0.0 0.0 7 3.0 0.4
SE OF ORIG = 0.044 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AIM AIN PSEC PMK+TCOR-D+TTOR-TTCAL-DELT-EOLV= P-RES P-WT THIC SSCC SSMK YTOB TTICAL S-RES S-WT ANX PR FMAG R FAP FMAG
ANPI 3.0 119 160 31.01 P00 1.71 1.70 0.01 1.033 0.00-29.30 2.98-32.28 0.000 138 1
MWSI 6.1 14 142 31.22 P00 1.92 1.95 -0.03 1.033 0.00-29.30 3.42-32.72 0.000 138 1
842 6.8 129 139 0.001P 4 -29.30 2.02 -31.33 0.000 32.82 3.52 3.56 -0.03 0.723 138 1
816 6.9 103 138 31.41P0 2.11 2.03 0.08 1.033 0.00-29.30 3.81-33.12 0.000 138 53 2.71
WSUI 8.2 77 133 31.48 P 0 2.18 2.18 0.00 1.033 0.00-29.30 4.10-33.40 0.000 138 1
WSUI 9.6 64 128 31.60 PC0 2.30 2.34 -0.04 1.033 0.00-29.30 4.18-33.49 0.000 138 1
SCSI 10.0 5 126 31.88 P00 2.58 2.39 0.19 1.033 0.00-29.30 4.18-33.43 0.000 138 1
85U3 10.0 5 126 31.80 P00 2.50 2.39 0.11 1.033 0.00-29.30 4.18-33.43 0.000 138 1
817 12.2 331 120 31.94P0 2.64 2.69 -0.05 1.033 0.00-29.30 4.95 0.40 0.000 138 49 2.61
815 13.2 259 117 32.20P0 2.90 2.83 0.07 1.033 34.65 5.35 4.95 0.40 0.000 138 1
839 14.0 107 115 32.32P 3.02 2.95 0.06 1.033 34.54 5.24 5.17 0.07 0.723 138 1
M-2 14.1 108 115 32.48 PC0 3.18 2.96 0.05 1.033 0.00-29.30 5.18-34.78 0.000 138 1
84 15.2 92 112 32.36P 3.06 3.14 -0.09 1.033 34.94 5.64 5.76 -0.12 0.723 138 1
844 16.2 9 110 0.001P 4 -29.30 3.29 -0.11 1.033 0.00-29.30 5.88-35.19 0.000 138 1
DSPI 16.7 83 110 32.56 PC0 3.26 3.36 0.06 1.033 0.00-29.30 6.09-35.39 0.000 138 1
M8A1 17.5 117 108 32.84 PC0 3.56 3.48 0.05 1.033 0.00-29.30 6.87-36.70 0.000 138 1
M-1 20.3 136 104 33.58 PC0 4.28 3.93 0.30 0.66M0.000 36.15 6.85 7.16 -0.31 0.000 138 1
8RPI 21.3 161 103 34.05 PC0 4.75 4.09 -0.10 1.033 0.00-29.30 7.98-37.29 0.000 138 50 2.71
81 22.4 357 102 33.46P 4.16 4.26 0.12 1.033 0.00-29.30 8.60-37.90 0.000 138 1
8RCI 24.3 183 100 33.75 PC0 4.45 4.56 -0.02 1.033 0.00-29.30 9.38-38.68 0.000 138 1
812 24.8 184 100 33.91P 4.61 4.63 0.02 1.033 0.00-29.30 9.38-38.68 0.000 138 1
LSGS 26.5 101 99 34.20 PC0 4.90 4.91 -0.11 1.033 0.00-29.30 26.64-55.95 0.000 138 1
LCRI 29.3 127 97 34.55 PC0 5.25 5.36 0.00 1.033 57.78 28.48 27.46 1.01 0.000 138 1
811 34.2 147 96 35.45P 6.15 6.14 0.00 1.033 60.66 31.36 31.98 -0.63 0.000 138 90 3.51
88 48.5 142 93 37.92P 8.62 8.47 0.15 1.033 66.12 36.82 35.98 0.83 0.000 138 91 3.51
87 55.6 137 93 39.24P 9.94 9.61 0.04 1.033 74.06 44.76 44.91 -0.16 0.000 138 88 3.61
APM 90.2 41 92 45.80 PC0 16.50 15.22 1.27M0.000 24.59 55.29 54.45 0.84 0.000 138 1
MPI 93.1 126 91 44.67 P 0 15.37 15.69 -0.33 1.033 0.00 30.70 59.22-28.52 0.000 138 1
JGI 109.8 96 65 47.80 PC0 18.50 18.28 0.22 1.033 0.00 30.70 59.22-28.52 0.000 138 1
C18 125.3 135 65 50.31 P 0 21.01 20.56 0.44M0.000 0.00 30.70 59.22-28.52 0.000 138 1
881 160.0 99 65 55.75 P 0 26.45 25.66 0.78M0.000 0.00 30.70 59.22-28.52 0.000 138 1
TMI 197.6 120 50 0.50 P 0 31.20 31.11 0.06M0.000 0.00 30.70 59.22-28.52 0.000 138 1
LRM 219.4 35 50 3.80 PC0 34.50 33.84 0.66M0.000 0.00 30.70 59.22-28.52 0.000 138 1
IMM 250.9 98 50 7.07 P 3 37.77 37.78 -0.02M0.000 0.00 30.70 59.22-28.52 0.000 138 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW E SE NE Z N
AVE. OF END POINTS 0.11 0.11 0.13 0.13 0.16 0.17 0.17

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.11 0.04 0.14 0

END END END END END

83/11/ 2 ----- BEGIN ----- BEGIN ----- 83/11/ 2 6/ 3

HORIZONTAL SE = 0.44 SE = 0.73 VERTICAL SE = 1.29 QUALITY = A
AZ = -31. AZ = -121.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVNM SODM NF AVFM SDFM
831102 6 3 23.83 44N13.92 114W 2.08 9.19 2.69 12 10 109 1 0.08 0.7 1.3 B A18 0.19 10 15 0.00 0.07 0 0.0 0.0 7 2.7 0.2
SE OF ORIG = 0.061 4 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
SYM DIST AZM AIN PSEC PRMK+TCOR=0=TTDB-TTCAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
316 8.1 128 134 26.151PC 2.32 2.18 0.14 1.081 27.77 3.94 4.04 -0.10 0.757 141 55 2.71 141 55 2.71
842 9.2 147 130 0.001P 4 -23.83 2.31 -26.14 0.000 27.77 3.94 4.04 -0.10 0.757 141 44 2.51 141 44 2.51
817 9.6 319 129 26.151PC 2.32 2.35 -0.04 1.081 28.63 4.80 4.89 -0.09 0.757 141 1 141 1
944 12.8 10 119 0.001P 4 -23.83 2.79 -26.62 0.000 28.63 4.80 4.89 -0.09 0.757 141 48 2.61 141 48 2.61
815 14.6 246 115 26.941PC 3.11 3.04 0.07 1.081 29.33 5.50 5.48 0.02 0.757 141 55 2.71 141 55 2.71
839 15.1 120 113 27.021P 3.19 3.13 0.06 1.081 29.33 5.50 5.48 0.02 0.757 141 38 2.41 141 38 2.41
84 15.4 105 113 27.011P 3.18 3.17 0.01 1.081 29.33 5.50 5.48 0.02 0.757 141 1 141 1
81 19.0 355 107 27.591PC 3.76 3.73 0.03 1.081 29.33 5.50 5.48 0.02 0.757 141 65 3.01 141 65 3.01
312 28.2 184 98 28.941P 5.11 5.19 -0.08 1.081 29.33 5.50 5.48 0.02 0.757 141 52 2.81 141 52 2.81
811 36.9 151 95 30.501PC 6.67 6.59 0.08 1.081 29.33 5.50 5.48 0.02 0.757 141 52 2.81 141 52 2.81
88 51.1 145 93 32.571PC 8.74 8.88 -0.15 1.081 29.33 5.50 5.48 0.02 0.757 141 52 2.81 141 52 2.81
87 57.9 140 93 34.181P 4 10.35 9.99 0.28 0.08 0.000 29.33 5.50 5.48 0.02 0.757 141 52 2.81 141 52 2.81

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE 2 N SW E NE
AVE. OF END POINTS 0.11 0.11 0.16 0.17 0.17 0.18 0.20

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.08 0.02 0.16 0

----- END ----- END ----- END -----

83/11/ 2 6/33 -----BEGIN-----BEGIN-----BEGIN-----83/11/ 2 6/33

HORIZONTAL SE = 1.87 SE = 3.32 VERTICAL SE = 7.30
AZ = -124. AZ = -34. QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
331102 633 57.68 44N13.10 114W 2.64 12.42 10 9 187 1 0.13 3.3 7.3 D C10 0.07 10 20 0.00 0.11 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.476 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STM DIST AZM AIN PSEC PRMK+TCOR=0+TT08-TTCAL-DELAY-EDLY= P-RES P-WT TNIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
NWSI 4.5 25 159 0.02 P00 2.34 2.30 0.04 1.046 0.00 2.32 4.02 -1.70 0.000
DSU3 8.2 9 144 60.35 PC0 2.67 2.59 0.08 1.046 0.00-57.68 4.53-62.21 0.000
MSUI 9.3 75 140 0.27 PC0 2.59 2.70 -0.11 1.046 0.00 2.32 4.73 -2.41 0.000
M-2 15.1 114 125 1.13 PC0 3.45 3.38 0.17 -0.10 1.046 0.00 2.32 5.92 -3.90 0.000
DSPI 17.0 90 122 1.23 PC0 3.55 3.64 -0.09 1.046 0.00 2.32 6.38 -4.06 0.000
M0AI 18.7 122 119 1.68 P-1 4.00 3.89 0.11 0.588 0.00 2.32 6.81 -4.49 0.000
M-1 22.0 139 114 2.44 PC0 4.76 4.35 0.30 0.11 1.046 0.00 2.32 7.62 -5.82 0.000
BRPI 23.3 162 113 2.45 P 0 4.77 4.56 0.21 1.046 4.70 7.02 7.98 -0.96 0.000
BRCI 26.2 182 110 2.45 PC0 4.77 5.00 -0.23 1.046 5.45 7.77 8.76 -0.99 0.000
LSGS 27.3 105 109 2.89 PC0 5.21 5.18 0.03 1.046 0.00 2.32 9.06 -6.74 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH MW NE E SW SE Z N
AVE. OF END POINTS 0.08 0.08 0.10 0.12 0.14 0.15 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.13 0.05 0.12 0

83/11/ 2 ----- 6/53 ----- BEGIN ----- BEGIN ----- 83/11/ 2 ----- 6/53

HORIZONTAL SE = 0.65 SE = 1.04 VERTICAL SE = 1.27
AZ = -36. AZ = -126.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM S0XM MF AVFM SDFM
831102 653 7.14 43N50.68 113W52.07 11.17 3.10 25 10 140 1 0.15 1.0 1.3 C 8/C 0.64 10 56 0.00 0.11 0 0.0 0.0 12 3.1 0.3
SE DF ORIG = 0.073 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-Q-TT08-TTCL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT ANX PR XMAG R FMP FMAG
811 6.2 130 149 9.56IPC 2.42 2.24 0.18 1.098 0.00 -7.14 4.26-11.40 0.000 143 75 3.01
88PI 8.2 304 141 9.65 P00 2.51 2.43 0.08 1.098 0.00 -7.14 4.66-12.30 0.000 143 1
M-1 10.2 2 134 10.02 PC0 2.88 2.65 0.30 0.07 1.098 0.00 -7.14 4.64 0.10 0.768 143 1
837 10.2 341 134 9.86 P 1 2.72 2.65 0.04 1.098 11.88 4.74 4.64 0.10 0.768 143 1
LCRI 11.9 54 129 10.04 PC0 2.90 2.86 0.04 1.098 0.00 -7.14 5.00-12.14 0.000 143 1
88CI 14.9 272 122 8.94 P00 1.80 3.26 -1.46M0.000 0.00 -7.14 5.70-12.84 0.000 143 1
312 15.5 270 121 10.64IP0 3.50 3.33 0.17 1.098 0.00 -7.14 5.70-12.84 0.000 143 1
48AI 16.9 6 118 10.77 PC0 3.63 3.53 0.10 1.098 0.00 -7.14 6.18-13.32 0.000 143 1
M-2 20.6 359 112 11.30 PC0 4.16 4.07 0.17 -0.09 1.098 0.00 -7.14 7.13-14.57 0.000 143 1
839 20.7 359 112 11.32 P 1 4.18 4.09 0.08 0.617 14.27 7.13 7.16 -0.04 0.768 143 1
98 21.0 131 112 11.27IPC 4.13 4.13 -0.01 1.098 0.00 -7.14 7.83-14.97 0.000 143 86 3.21
LGS5 23.2 32 109 11.59 PC0 4.45 4.48 0.03 1.098 0.00 -7.14 8.54-15.68 0.000 143 1
816 24.2 343 108 11.77IPC 4.63 4.64 -0.01 1.098 15.22 8.08 8.11 -0.03 0.000 143 69 3.01
84 24.3 4 108 11.72IPC 4.58 4.65 -0.07 1.098 14.45 7.31 8.83 -1.52 0.000 143 66 2.91
AMPI 25.8 335 106 11.98 P 0 4.84 4.88 -0.04 1.098 0.00 -7.14 9.53-16.67 0.000 143 1
DSPI 26.9 6 106 12.10 PC0 4.96 5.05 -0.30 1.098 0.00 -7.14 10.55-17.69 0.000 143 1
87 28.8 124 104 12.47IPC 5.33 5.34 0.28 -0.07 1.098 0.00 -7.14 11.66-18.80 0.000 143 78 3.11
NSUI 29.5 350 104 12.77 P 2 5.63 5.65 0.18 0.274 0.00 -7.14 11.66-18.80 0.000 143 1
MWSI 33.1 338 102 12.91 P 0 5.77 6.03 -0.26 1.098 0.00 -7.14 11.66-18.80 0.000 143 1
815 34.7 310 101 13.36IP0 6.22 6.29 -0.07 1.098 0.00 -7.14 11.66-18.80 0.000 143 68 3.01
85U3 37.1 340 100 13.80 P 0 6.66 6.66 0.00 1.098 0.00 -7.14 11.66-18.80 0.000 143 1
817 40.5 331 99 14.25IP0 7.11 7.21 -0.11 1.098 0.00 -7.14 11.66-18.80 0.000 143 39 2.51
81 49.5 342 97 15.76EP 8.62 8.66 -0.04 1.098 0.00 -7.14 11.66-18.80 0.000 143 45 2.71
JCI 96.4 82 65 25.59 P 4 18.45 16.16 2.29 0.000 36.54 29.40 28.80 0.60 0.000 143 59 3.11
CJ8 98.4 131 65 25.49 P 4 18.35 16.46 1.89 0.000 0.00 -7.14 30.14-37.28 0.000 143 1
8PM 103.6 26 65 24.80 PC0 17.66 17.22 0.44 1.098 0.00 -7.14 40.73-47.87 0.000 143 70 3.41
G8I 144.7 90 65 30.71 P 0 23.57 23.27 -0.29D0.000 0.00 -7.14 48.32-55.47 0.000 143 72 3.51
TMI 174.3 115 65 34.68 P00 27.54 27.61 -0.08C0.000 0.00 -7.14 61.40-68.54 0.000 143 1
NPI 231.2 152 50 43.96 P 0 36.80 35.09 1.71M0.000 0.00 -7.14 61.92-69.06 0.000 143 1
LRM 233.5 29 50 42.30 PC0 35.16 35.38 -0.22C0.000 0.00 -7.14 62.35-69.49 0.000 143 75 3.81
IMW 235.5 92 50 43.83 P 0 36.69 35.63 1.06M0.000 0.00 -7.14 62.35-69.49 0.000 143 1
MLI 259.2 147 50 47.34 P 0 40.20 38.59 1.61M0.000 0.00 -7.14 67.53-74.67 0.000 143 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N NE E Z SW NW
AVE. OF END POINTS 0.03 0.05 0.06 0.13 0.14 0.14 0.18

NUMBER RMS MIN DRMS AVE DRMS QUALITY
18 0.15 -0.01 0.10 0

----- END ----- END ----- END -----

83/11/ 2 9/53 BEGIN-----BEGIN-----83/11/ 2 9/53

HORIZONTAL SE = 1.42 SE = 1.86 VERTICAL SE = 3.53 QUALITY = B
AZ = 23. AZ = -67.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SOXM NF AVFM SDFM
931102 953 14.90 44N11.46 114W 0.82 8.94 11 11 166 1 0.14 1.9 3.5 C RIC 0.06 10 24 0.00 0.13 0 0.0 0.0 0 0.0 0.0
SE OP ORIG = 0.197 9 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D+TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
ANPI 0.7 119 175 16.43 P00 1.53 1.60 -0.08 1.000 0.00-14.90 2.81-17.71 0.000
MSI 7.1 355 137 18.46 P 0 3.56 2.04 1.51M0.000 0.00-14.90 3.57-18.48 0.000
MSUI 8.5 51 131 17.00 P00 2.10 2.20 -0.10 1.000 0.00-14.90 3.85-18.75 0.000
BSU3 11.2 354 122 17.60 P00 2.70 2.54 0.15 1.000 0.00-14.90 4.45-19.36 0.000
M-2 11.8 105 120 17.73 P00 2.83 2.63 0.02 1.000 0.00-14.90 4.61-19.81 0.000
DSPI 14.9 78 113 17.88 P00 2.98 3.08 -0.10 1.000 19.13 4.23 5.39 -1.16 0.000
MBAI 15.1 117 112 18.19 P00 3.29 3.12 0.17 1.000 0.00-14.90 5.46-20.36 0.000
M-1 18.1 138 107 19.04 P00 4.14 3.57 0.27 1.000 0.00-14.90 6.24-21.67 0.000
BRPI 19.7 166 104 18.80 P00 3.90 3.82 0.08 1.000 18.79 3.89 6.69 -2.80 0.000
BRCI 23.4 188 101 19.14 P00 4.24 4.41 -0.17 1.000 0.00-14.90 7.72-22.62 0.000
LSGS 24.3 100 100 19.38 P00 4.48 4.56 -0.08 1.000 0.00-14.90 7.97-22.88 0.000
LCRI 27.0 128 98 19.73 P 0 4.83 4.98 -0.16 1.000 0.00-14.90 8.72-23.62 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH I MW E NE N SE SW
AVE. OF END POINTS 0.07 0.08 0.10 0.11 0.12 0.12 0.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.14 -0.02 0.11 D

83/11/ 2 14/55

VERTICAL
SE = 1.57 QUALITY = A

XM	SDXM	NF	AVFM	SDFM
.0	0.0	0	0.0	0.0

```

--- MAGNITUDE DATA ---
MX PR XMAG R FMP FMAG

```

QUALITY EVALUATION

NE	MS	N
0.20	0.21	0.24

NUMBER 6

RMS	MIN	DRMS	AVE	DRMS	QUALITY
0.04		0.09		0.18	0

END

83/11/ 2 16/23 BEGIN-----BEGIN-----83/11/ 2 16/23

HORIZONTAL SE = 1.89 SE = 5.15 VERTICAL SE = 5.22
AZ = -124. AZ = -34. QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDRM NF AVPM SDFM
831102 1623 26.60 44N16.81 114W 4.22 8.43 9 12 253 1 0.10 5.2 5.2 0 C10 0.08 10 18 0.00 0.08 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.480 \$ ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STM OIST AZM AIN PSEC PRMK+TCOR=0-TT08-TTICAL-DELAY= P-RES P-WT TH1C SSEC SRMK TT08 TTICAL S-RES S-WT AMK PR XMAG R FMP FMAG
8SU3 3.5 70 155 28.29 P00 1.69 1.65 0.03 1.000 0.00-26.60 2.88-29.48 0.000
AMPI 11.4 153 119 29.10 P 0 2.50 2.54 -0.04 1.000 0.00-26.60 4.45-31.04 0.000
NSUI 12.0 112 117 29.19 P00 2.59 2.61 -0.02 1.000 31.10 4.50 4.57 -0.07 0.000
QSPT 20.2 110 101 30.44 P00 3.84 3.89 -0.05 1.000 32.19 5.59 6.81 -1.22 0.000
M-2 20.6 129 101 30.58 P-0 3.38 3.94 0.17 -0.13 1.000 0.00-26.60 6.90-33.79 0.000
MBAI 24.6 133 97 31.20 P00 4.60 4.58 0.02 1.000 0.00-26.60 8.02-34.62 0.000
M-1 28.7 145 96 32.35 PC0 5.75 5.25 0.30 0.21 1.000 0.00-26.60 9.18-36.31 0.000
BRPI 30.4 162 95 32.24 P+0 5.64 5.54 0.11 1.000 35.24 8.64 9.69 -1.05 0.000
BRCI 33.1 178 94 32.42 P+0 5.82 5.96 -0.14 1.000 34.83 8.23 10.44 -2.21 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE NE E Z SW N
AVE. OF END POINTS 0.02 0.08 0.11 0.11 0.14 0.18 0.20

NUMBER RMS MIN RMS AVE RMS QUALITY
5 0.10 0.00 0.12 0

HORIZONTAL SE = 2.29 VERTICAL SE = 2.16
 AZ = -3. AZ = -93. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERH ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
 831102 1917 22-61 44N12-58 11W 1-63 5-42 3-19 15 8 175 1 0-22 2-3 2-2 C C1C 0-36 10 40 0-00 0-10 0 0-0 0-0 4 3-2 0-2
 SE OF DRIG = 0.164 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FAP FRAG
 ANPI 2-9 15 151 23-80 P 0 1-19 1-14 0-05 1-000 0-00-22-61 1-99-24-60 0-000
 MWSI 5-0 6 136 23-60 P00 0-99 1-37 -0-37 1-000 0-00-22-61 2-39-25-00 0-000
 MSUI 8-3 67 121 24-52 PC0 1-91 1-82 0-09 1-000 0-00-22-61 3-18-25-79 0-000
 ASU3 9-0 359 119 24-98 P00 2-37 1-92 0-45 1-000 0-00-22-61 3-37-25-98 0-000
 M-2 13-5 113 110 25-56 PC0 2-95 2-66 0-12 1-000 0-00-22-61 4-66-27-57 0-000
 DSPI 15-6 96 107 25-54 PC0 2-93 3-03 -0-09 1-000 0-00-22-61 5-30-27-91 0-000
 M8AI 17-1 122 106 25-97 PC0 3-36 3-27 0-09 1-000 0-00-22-61 5-73-28-33 0-000
 M-1 20-4 140 103 26-77 PC0 4-16 3-84 0-03 1-000 0-00-22-61 6-71-29-85 0-000
 BRPI 22-0 164 102 26-75 P00 4-14 4-11 0-03 1-000 30-75 8-14 7-20 0-94 0-000
 BRGI 25-3 185 101 27-13 PC0 4-52 4-70 -0-18 1-000 0-00-22-61 8-23-30-84 0-000
 LSGS 25-8 104 100 27-07 P 0 4-56 4-78 -0-32 1-000 0-00-22-61 8-37-30-98 0-000
 LCRI 29-1 130 99 27-83 PC0 5-22 5-39 -0-16 1-000 0-00-22-61 9-43-32-03 0-000
 BPM 88-8 41 65 37-50 PC0 14-89 15-12 -0-23 1-000 0-00-22-61 26-46-49-07 0-000
 MPI 92-8 127 65 38-76 P 0 16-15 15-77 0-38 1-000 0-00-22-61 27-60-50-21 0-000
 JGI 108-7 97 65 41-08 PC0 18-47 18-35 0-12 1-000 0-00-22-61 32-12-56-73 0-000
 C18 125-3 136 55 43-74 P00 21-13 20-86 0-2700-000 0-00-22-61 36-51-59-11 0-000
 GBI 159-2 99 55 49-09 P 0 26-48 25-84 0-64M0-000 0-00-22-61 45-23-67-83 0-000
 TMI 197-2 121 55 54-05 P 0 31-44 31-44 0-0000-000 0-00-22-61 55-02-77-63 0-000
 LRM 218-1 35 44 55-50 P 0 32-89 34-09 -1-19M0-000 0-00-22-61 59-65-82-26 0-000
 IMM 249-7 98 44 2-57 P 0 39-96 38-04 1-92M0-000 0-00 37-39 66-57-25-18 0-000

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH NE Z SE E NW SW N
 AVE. OF END POINTS -0-06 -0-04 -0-01 0-00 0-01 0-04 0-10
 RMS MIN DRMS AVE DRMS QUALITY
 NUMBER 5 0-22 -0-11 0-01 D

83/11/ 2 21/ 4 BEGIN-----BEGIN-----83/11/ 2 21/ 4

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERH ERZ Q SOD A0J IN NR AVR AAR NM AVXM S0XM NF AVFM SDFM
831102 21 4 55.06 44N10.15 114W 5.41 5.43 2.25 11 6 90 1 0.05 0.5 0.5 B A1B 0.66 10 12 0.00 0.04 0 0.0 0.0 8 2.3 0.2
SE OF ORIG = 0.036 3 ITERATIONS TOTAL

SE = 0.40 HORIZONTAL SE = 0.48 VERTICAL
AZ = -76. AZ = 14. QUALITY = A

(- STATION DATA -) (------ P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (------ S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK*TCOR-O-TT0B-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
845 2.8 299 152 56.181P 1.12 1.13 -0.01 1.058 57.08 2.02 1.98 0.05 0.740 153 26 2.01 1
817 3.6 330 146 56.201P0 1.14 1.20 -0.06 1.058 57.80 2.74 2.71 0.03 0.740 153 30 2.21 1
843 6.4 101 129 56.601P 1.54 1.55 0.00 1.058 153 30 2.21 1
815 13.4 221 110 57.781PC 2.72 2.65 0.07 1.058 153 30 2.21 1
81 15.1 11 108 57.991P 2.93 2.94 0.00 1.058 153 33 2.31 1
84 20.9 113 103 58.981PC 3.92 3.93 -0.01 1.058 153 40 2.51 1
812 32.3 176 98 60.891PC 5.83 5.95 -0.12 1.058 153 18 1.91 1
86 53.0 129 65 65.111P 4 10.05 9.31 0.74 0.000 153 40 2.61 1
88 57.0 144 65 65.081P 10.02 9.95 0.07 1.058 153 35 2.51 1
87 63.9 139 65 66.411PC 11.35 11.07 0.28 0.00 1.058

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW NE SW E N SE
AVE. OF END POINTS 0.55 0.77 0.78 0.81 0.91 1.02 1.02

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.05 0.56 0.88 A

-----END-----END-----END-----

83/11/ 2 21/ 6 BEGIN-----BEGIN-----83/11/ 2 21/ 6

HORIZONTAL SE = 0.74 SE = 1.18 VERTICAL SE = 1.44 QUALITY = A
AZ = -44. AZ = -134.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM NF AVPM SOFM
831102 21 6 8.11 44N13.80 114W 3.61 7.86 2.41 9 10 139 1 0.09 1.2 1.4 C 81C 0.10 10 12 0.00 0.08 0 0.0 0.0 6 2.4 0.2
SE OF ORIG = 0.075 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -->
STN DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAX R FMP FMAG
843 5.0 52 143 9.88IP 1.77 1.69 0.08 1.071 11.19 3.08 2.95 0.13 0.750 154 1
845 7.5 319 130 10.03IP 1.92 1.96 -0.04 1.071 11.45 3.34 3.44 -0.10 0.750 154 1
816 9.7 120 121 10.23IPD 2.12 2.25 -0.12 1.071 13.91 5.80 5.95 -0.15 0.000 154 30 2.21
84 17.3 102 101 11.41EPC 3.30 3.40 -0.10 1.071 154 29 2.21
81 19.2 1 98 11.84IPD 3.75 3.71 0.04 1.071 154 36 2.41
812 27.9 180 94 13.31IPD 5.20 5.11 0.09 1.071 154 60 2.81
86 48.5 127 91 17.56IP 4 9.45 8.44 1.01 0.000 154 1
88 52.1 143 91 17.18EP 9.07 9.03 0.04 1.071 154 37 2.51
87 59.1 138 91 19.11EP 4 11.00 10.16 0.28 0.56 0.000 154 32 2.41

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E NW NE SW Z SE M
AVE. OF END POINTS 0.01 0.12 0.14 0.17 0.19 0.19 0.30

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.09 -0.01 0.16 0

83/11/ 2 21/10 -----BEGIN-----BEGIN-----83/11/ 2 21/10

HORIZONTAL SE = 0.83 SE = 2.23 VERTICAL SE = 1.30 QUALITY = A
AZ = -77. AZ = 13.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SOFM
831102 2110 27.30 44N17.21 114W 4.82 6.73 1.74 8 6 106 1 0.08 2.2 1.3 D CID 0.09 10 8 0.00 0.07 0 0.0 0.0 3 1.7 0.1
SE OF ORIG = 0.163 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D=TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
817 2.8 294 157 28.601PD 1.36 1.34 0.02 1.081 29.58 2.28 2.41 -0.13 0.757 156 16 1.61
845 3.3 260 153 28.601P 1.36 1.38 -0.02 1.081 30.28 2.94 2.97 0.01 0.757 156 1
843 6.4 120 135 29.071P 1.77 1.70 0.07 1.081 156 1
816 14.9 138 113 30.24EPC 2.94 2.99 -0.05 1.081 156 18 1.71
815 15.4 219 112 30.521P 3.22 3.07 0.15 1.081 156 21 1.91
812 34.3 177 65 33.371P 6.07 6.17 -0.09 1.081 156 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW Z ME SE E M NM
AVE. OF END POINTS 0.17 0.18 0.20 0.22 0.22 0.23 0.34

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.08 0.07 0.23 D

-----END-----END-----END-----END-----

-----BEGIN-----	-----BEGIN-----	-----BEGIN-----
93/11/ 2	21/47	83/11/ 2
		21/47

HORIZONTAL	SE =	0.51	SE =	0.92	VERTICAL	SE =	1.26
AZ =	7.	AZ =	-83.	AZ =	-83.	AZ =	7.

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	CAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM
03JUN02	2147	31.38	44N11.68	9.96	2.71	16	20	277	1	0.05	0.9	1.3	C	810	0.05	10	20	0.00	0.04	0	0.0	0.0	11	2.7	0.4
										SE OF DRIG = 0.075															
										5 ITERATIONS TOTAL															

[illegible]

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	E	Z	NE	NW	SE	SW	N
AVE. OF END POINTS	0.13	0.17	0.17	0.18	0.20	0.20	0.27

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
9	0.05	0.09	0.19			0

END
END
END
END

-----BEGIN-----	-----BEGIN-----	-----BEGIN-----
03/11/ 2 22/29	03/11/ 2 22/29	03/11/ 2 22/29

HORIZONTAL	SE =	0.91	VERTICAL	SE =	1.29
	0.64				
AZ =	-58.	AZ =	32.	QUALITY =	A

	DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	O3	GAP	N	RMS	ERM	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM	
31102	2229	36.56	44N	13.78	114W	1.67	2.06	20	7	63	1	0.11	0.9	1.3	A	14	0.06	10	36	0.00	0.09	0	0.0	0	0	0
												SE OF ORIG = 0.075														
												% ITERATIONS TOTAL														

(- STATION DATA -)	(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----)	VARI	(---- S-WAVE TRAVEL-TIME DATA ----)	(--- MAGNITUDE DATA ---)	
STN DIST AZM AIN PSEC PRMK+TCOR-DATOB-TTCL-DLAY-EDLY=	P-RES P-WT THIC SSEC SRKX TFOB TTCL S-RS S-WT AMX PR KMAG R FMP FMAG				
2.9 11 164 38.50 PCO	1.94 1.96	-0.02 1.098	0.00-36.56	3.43-39.99 0.000	159 1
3.4 23 161 38.56 P 0	2.00 1.99	0.01 1.098	39.96 3.60	3.48 -0.08 0.769	159 1
6.8 360 145 38.97 P 0	2.41 2.24	0.16 1.098	0.00-36.56	3.92-40.49 0.000	159 1
7.5 129 142 38.88 PD4	2.32 2.31	0.01 0.000			159 56 2.71
7.8 82 141 39.01 PCO	2.45 2.36	0.11 1.098	0.00-36.56	4.09-40.65 0.000	159 1
8.7 149 138 0.00 P 4	-36.56 2.53	-38.99 0.000	40.48 3.92	4.25 -0.34 0.000	159 1
9.4 308 135 39.06 P 0	2.50 2.52	-0.02 1.098	40.79 4.23	4.40 -0.18 0.769	159 1
10.1 318 133 39.12 IPD	2.56 2.60	-0.04 1.098			159 37 2.41
14.5 121 121 40.00 P 2	3.44 3.17	0.10 0.275	0.00-36.56	5.54-42.40 0.000	159 1
14.8 104 121 39.86 IP 4	3.30 3.20	0.10 0.000			159 55 2.71
15.0 248 120 39.77 IPC	3.21 3.23	-0.02 1.098			159 49 2.61
15.7 94 119 39.97 P-0	3.41 3.33	0.08 1.098	0.00-36.56	5.83-42.39 0.000	159 1
19.3 354 112 40.48 IPO	3.92 3.87	0.05 1.098	42.63 6.07	6.77 -0.70 0.000	159 52 2.71
22.1 144 109 41.20 PCO	4.64 4.39	0.05 1.098	0.00-36.56	7.50-44.59 0.000	159 1
24.1 165 107 41.30 P+0	4.74 4.59	0.15 1.098	44.55 7.99	8.03 -0.05 0.000	159 1
26.4 108 105 41.45 PCO	4.89 4.95	-0.07 1.098	0.00-36.56	8.67-45.23 0.000	159 1
27.5 184 104 42.02 PC1	5.46 5.12	0.33 0.618	46.52 9.96	8.97 0.99 0.000	159 1
28.0 185 104 41.62 IP 4	5.06 5.19	-0.14 0.000			159 1
30.6 133 102 42.12 P 0	5.56 5.56	-0.07 1.098	0.00-36.56	9.84-46.41 0.000	159 1
36.4 151 99 43.01 EP	6.45 6.55	-0.10 1.098			159 50 2.71
46.4 129 97 44.58 IP	8.02 8.15	-0.13 1.098			159 34 2.41
50.5 145 96 44.22 EP	8.66 8.82	-0.16 1.098			159 62 3.01

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	SE	NW	SW	N	Z	NE
Ave. of end points	0.06	0.08	0.09	0.14	0.15	0.18

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
7	0.11	0.06	0.12			0

END
END
END
END

HORIZONTAL SE = 0.65 SE = 0.70 VERTICAL SE = 0.71
 AZ = -94. AZ = -4.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVMM SOXM MF AVPM SOFM
 831102 2342 1.86 44N15.82 114W 4.89 6.55 3.26 26 5 77 1 0.13 0.7 0.7 A 0.80 10 38 0.00 0.09 0 0.0 0.0 7 3.3 0.2
 SE OF ORIG = 0.050 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT ANX PR XMAG R FMP FMAG
 845 3.7 302 150 3.16EPD0 1.30 1.38 -0.09 1.036 4.21 2.35 2.42 -0.08 0.725 160 1
 817 4.5 326 145 3.19IPD 1.33 1.46 -0.13 1.036 0.00 -1.86 2.64 -4.50 0.000 160 70 2.91
 851 5.0 101 142 3.35 PD0 1.49 1.51 -0.02 1.036 0.00 -1.86 2.69 -4.55 0.000 160 1
 8503 5.2 55 141 3.87 P 0 2.01 1.53 -0.47 1.036 0.00 -1.86 2.78 -0.02 0.725 160 1
 843 5.6 97 138 3.43 PD0 1.57 1.59 -0.02 1.036 0.00 -1.86 3.91 -5.77 0.000 160 1
 84PI 10.3 144 121 4.20 P 0 2.34 2.23 -0.10 1.036 5.94 4.08 4.04 0.04 0.725 160 115 3.31
 844 10.8 33 120 4.13IPD 2.27 2.31 -0.04 1.036 0.00 -1.86 6.76 -8.92 0.000 160 103 3.31
 816 13.2 130 115 4.54IPD 2.68 2.70 -0.02 1.036 0.00 -1.86 6.76 -8.92 0.000 160 110 3.31
 815 13.5 225 114 4.70IPC 2.84 2.74 -0.10 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 81 15.6 8 111 4.92IPC 3.06 3.09 -0.03 1.036 0.00 -1.86 6.76 -8.92 0.000 160 103 3.31
 84 20.0 112 107 5.56IPD 3.70 3.84 -0.14 1.036 0.00 -1.86 6.76 -8.92 0.000 160 110 3.31
 M-2 20.2 124 106 5.80 PD0 3.94 3.86 0.17 -0.10 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 05PI 20.6 104 106 5.59 PD0 3.73 3.93 -0.20 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 M9AI 24.1 128 65 6.31 PD0 4.45 4.53 -0.08 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 M-1 27.7 141 65 7.40 P 0 5.54 5.12 0.30 0.12 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 88PI 29.0 159 65 7.25 PC0 5.39 5.23 -0.06 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 88CI 31.3 176 65 7.52 P 0 5.66 5.70 -0.05 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 812 31.7 177 65 7.60IPC 5.74 5.78 -0.03 1.036 0.00 -1.86 6.76 -8.92 0.000 160 110 3.41
 LSGS 31.8 112 65 7.60 P 0 5.74 5.78 -0.04 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 LCRI 36.3 133 65 8.42 PC0 6.56 6.52 0.04 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 811 41.9 149 65 9.37EPC 7.51 7.42 0.09 1.036 0.00 -1.86 6.76 -8.92 0.000 160 1
 86 52.1 129 65 11.09IPD 9.23 9.08 0.15 1.036 0.00 -1.86 6.76 -8.92 0.000 160 110 3.51
 88 56.1 144 65 11.47EPC 9.61 9.72 -0.11 1.036 0.00 -1.86 6.76 -8.92 0.000 160 79 3.21
 87 63.0 139 65 13.30EP 4 11.44 10.85 0.28 0.31 0.000 0.00 -1.86 6.76 -8.92 0.000 160 79 3.21

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE NW E SW SE N
 AVE. OF END POINTS 0.38 0.56 0.57 0.66 0.74 0.84 0.87

NUMBER RMS MIN ORMS AVE ORMS QUALITY
 26 0.13 0.32 0.69 A

83/11/ 3 0/18 BEGIN-----BEGIN-----83/11/ 3 0/18

HORIZONTAL SE = 0.54 SE = 0.85 VERTICAL SE = 1.09
AZ = -5. AZ = -95. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQO AOJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
931103 018 48.51 44N15.37 114W 2.57 7.17 3.35 31 4 74 1 0.15 0.9 1.1 B BIA 0.14 10 64 0.00 0.11 0 0.0 0.0 12 3.3 0.3
SE OF ORIG = 0.055 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-DTTOB-TTCAL-DELY=P-RES P-WT TMIC SSEC SRMK TTOB TTICAL S-RES S-WT ANX PR XNAG R FMP FMAG
NWSI 1-8 95 164 49.95 P00 1.44 1.35 0.08 1.020 0.00-48.51 2.37-50.88 0.000 162 1
343 2-5 86 158 50.06IP00 1.55 1.39 0.15 1.020 0.00-48.51 2.43-50.95 0.000 162 1
BSU3 4-0 17 147 50.07 P00 1.56 1.50 0.05 1.020 0.00-48.51 2.63-51.15 0.000 162 1
817 7-2 309 128 50.37IP0 1.86 1.85 0.01 1.020 0.00-48.51 2.63-51.15 0.000 162 1
ANPI 8-1 159 123 50.70 P 0 2.19 1.98 0.21 1.020 0.00-48.51 3.46-51.97 0.000 162 1
NSUI 9-1 102 119 50.68 P 0 2.17 2.10 0.06 1.020 0.00-48.51 3.68-52.20 0.000 162 1
944 10-3 16 114 50.74EPC0 2.23 2.29 -0.06 1.020 52.40 3.89 4.00 -0.12 0.714 162 1
416 10-4 138 114 50.87IP0 2.36 2.30 0.05 1.020 52.90 4.39 4.39 0.00 0.714 162 1
342 11-8 152 108 51.03IP0 2.52 2.51 0.01 1.020 0.00-48.51 5.89-54.71 0.000 162 89 3.11
915 15-3 236 96 51.60IPC 3.09 3.07 -0.07 1.020 0.00-48.51 5.95-54.46 0.000 162 99 3.21
84 16-9 113 94 51.75IP0 3.24 3.32 -0.08 1.020 0.00-48.51 7.03-55.54 0.000 162 88 3.11
M-2 17-2 127 93 51.90 P00 3.39 3.37 0.17 -0.15 1.020 0.00-48.51 8.17-57.21 0.000 162 1
OSPI 17-4 104 93 51.79 P00 3.28 3.40 -0.12 1.020 0.00-48.51 8.17-57.21 0.000 162 1
MBAI 21-2 132 91 52.53 PC0 4.02 4.02 0.00 1.020 0.00-48.51 8.75-57.65 0.000 162 1
M-1 25-2 145 91 53.40 PC0 4.89 4.67 0.30 -0.08 1.020 0.00-48.51 9.14-57.65 0.000 162 1
ARPI 27-3 165 91 53.55 PC0 5.04 5.00 0.01 1.020 0.00-48.51 9.65-58.16 0.000 162 1
LSGS 28-6 113 91 53.75 PC0 5.24 5.22 0.10 1.020 0.00-48.51 10.54-59.05 0.000 162 1
BRCI 30-4 182 91 53.93 PC0 5.42 5.51 -0.10 1.020 0.00-48.51 10.54-59.05 0.000 162 1
B12 30-8 183 91 54.00IPC 5.49 5.58 -0.22 1.020 0.00-48.51 10.54-59.05 0.000 162 1
LCRI 33-6 135 91 54.32 PC0 5.81 6.02 0.03 1.020 0.00-48.51 10.54-59.05 0.000 162 77 3.11
811 39-6 152 90 55.55EPC 7.04 7.00 -0.13 1.020 0.00-48.51 10.54-59.05 0.000 162 59 2.91
86 49-2 131 90 56.95EPC 8.44 8.56 -0.13 1.020 0.00-48.51 10.54-59.05 0.000 162 107 3.41
88 53-6 146 90 57.07EPC 9.16 9.29 0.03 1.020 0.00-48.51 10.54-59.05 0.000 162 78 3.21
BT 60-4 141 90 59.21EPC 10.70 10.39 0.28 0.36 1.020 0.00-48.51 10.54-59.05 0.000 162 78 3.31
MPI 97-0 129 90 5-20 P 0 16.69 16.33 -0.37 1.020 0.00-48.51 10.54-59.05 0.000 162 88 3.31
MLPM 99-6 54 90 4.90 PC0 16.39 16.74 0.25 1.020 0.00-48.51 10.54-59.05 0.000 162 1
JCI 110-7 99 65 7.31 PC0 18.80 18.54 0.36 1.020 0.00-48.51 10.54-59.05 0.000 162 1
8LCM 117-4 54 65 8.40 PC0 19.89 19.53 0.69PC0.000 0.00-48.51 10.54-59.05 0.000 162 93 3.41
CIB 129-9 137 65 10.57 P 0 22.06 21.37 0.5500.000 0.00-48.51 10.54-59.05 0.000 162 105 3.81
GBI 161-3 101 65 15.05 P 0 26.54 25.98 0.52C0.000 0.00-48.51 10.54-59.05 0.000 162 108 4.01
TMI 201-0 122 50 20.76 P 0 32.25 31.73 -0.44C0.000 0.00-48.51 10.54-59.05 0.000 162 1
LRM 214-6 36 50 21.50 PC0 32.99 33.43 1.7400.000 0.00-48.51 10.54-59.05 0.000 162 1
IMW 251-7 99 50 28-33 P 0 39.82 38.07 -0.8800.000 0.00-48.51 10.54-59.05 0.000 162 1
MSD 286-1 2 50 30.00 P 0 41.49 42.37 3.4400.000 0.00-48.51 10.54-59.05 0.000 162 1
MLI 292-8 148 50 35.16 P 0 46.65 43.20 -0.1600.000 0.00-48.51 10.54-59.05 0.000 162 1
MCM 327-5 353 50 35.90 PC0 47.39 47.55 -0.1600.000 0.00-48.51 10.54-59.05 0.000 162 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E SE NE Z N SW
AVE. OF END POINTS 0.06 0.06 0.09 0.12 0.12 0.13 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY

93/11/ 3 0/55 -----BEGIN-----BEGIN-----83/11/ 3 0/55

SE = 1.47 HORIZONTAL SE = 1.14 VERTICAL
AZ = -94. AZ = -94.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831103 055 56.28 44M15.77 114W 2.68 9.66 3.00 29 3 123 1 0.19 1.5 1.1 8 818 0.23 10 56 0.00 0.16 0 0.0 0.0 12 3.0 0.4
SE DP ORIG = 0.093 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AIM AIM PSC PMK+TCOR-D=TT08-TICAL-DELT-EDLT= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR AMAG R FMP FMA
NMSI 2.1 115 167 58.20 P 0 1.92 1.76 0.16 1.021 0.00-56.28 3.07-59.36 0.000 163 1
843 2.7 102 163 58.15 P 0 1.87 1.78 0.08 1.021 59.65 3.37 3.12 0.25 0.715 163 1
85U3 3.4 23 159 58.57 PCO 2.29 1.82 0.47 1.021 0.00-56.28 3.18-59.46 0.000 163 1
817 6.6 305 142 58.311PD 2.03 2.08 -0.05 1.021 0.00-56.28 4.07-60.35 0.000 163 35 2.31
ANPI 8.9 160 133 58.75 P00 2.47 2.33 0.14 1.021 0.00-56.28 4.18-60.46 0.000 163 1
NSUI 9.4 106 131 58.67 P 0 2.39 2.39 0.00 1.021 60.18 3.90 4.23 -0.33 0.715 163 1
844 9.6 18 130 58.47 P 0 2.19 2.42 -0.23 1.021 0.04 1.021 163 51 2.71
816 11.1 140 126 58.911PD 2.83 2.59 -0.23 1.021 61.55 5.27 6.11 -0.84 0.000 163 60 2.81
81 15.6 337 115 59.271PC 2.99 3.22 -0.06 1.021 163 61 2.81
84 17.3 115 111 59.711PD 3.43 3.49 -0.20 1.021 163 1
DSPI 17.7 106 111 59.64 P00 3.36 3.55 -0.11 1.021 0.00-56.28 6.23-62.81 0.000 163 1
M-2 17.8 129 111 59.90 P00 3.62 3.56 0.17 -0.04 1.021 2.84 6.56 7.31 -0.75 0.000 163 1
848AI 21.8 133 105 0.42 P00 4.14 4.18 5.02 4.84 0.30 -0.12 1.021 0.00 3.72 8.46 -5.27 0.000 163 1
M-1 25.9 146 101 1.30 P00 5.02 4.84 5.22 5.17 0.05 1.021 5.20 8.92 9.05 -0.13 0.000 163 1
BRPI 28.0 145 100 1.50 P00 5.17 5.34 -0.17 1.021 0.00 3.72 9.34 -5.62 0.000 163 1
LSGS 29.1 114 100 1.45 PCO 5.75 5.67 -0.16 1.021 0.00 3.72 9.93 -6.21 0.000 163 75 3.11
8RCI 31.2 181 99 2.03 PCO 5.58 5.74 -0.21 1.021 0.00 3.72 10.77 -7.06 0.000 163 1
812 31.6 182 98 61.861PC 5.58 5.74 -0.21 1.021 0.08 1.021 163 32 2.41
LCRI 34.2 136 97 2.23 P 0 7.23 7.15 -0.13 1.021 163 1
811 40.3 132 96 63.51EPC 7.23 7.15 -0.05 1.021 0.00 3.72 28.75-25.03 0.000 163 66 3.21
86 49.8 131 94 64.73EPO 8.45 8.68 0.02 1.021 0.00 3.72 29.22-25.50 0.000 163 1
88 54.3 146 94 65.56EPO 9.28 9.40 0.35 1.021 0.00 3.72 32.22-28.50 0.000 163 67 3.21
87 61.0 141 93 67.02EP 10.74 10.51 0.28 -0.23 1.021 0.00 3.72 33.79-30.08 0.000 163 1
8PI 97.6 129 92 13.00 P00 16.72 16.43 0.31 1.021 0.00 3.72 45.24-41.53 0.000 163 74 3.41
MLPM 99.3 54 65 13.00 PCO 16.72 16.70 0.5600.000 0.00 3.72 55.19-51.47 0.000 163 74 3.51
JGI 111.0 100 65 15.04 P00 18.76 18.41 0.3600.000 0.00 3.72 57.94-54.22 0.000 163 77 3.71
8LCM 117.1 54 65 15.90 PCO 19.62 19.31 0.3600.000 0.00 3.72 57.94-54.22 0.000 163 1
CIB 130.6 137 65 18.13 P 0 21.85 21.29 0.5200.000 0.00 3.72 66.23-62.51 0.000 163 1
8RI 161.6 101 65 22.66 P 0 26.38 25.85 0.3600.000 0.00 3.72 66.23-62.51 0.000 163 1
TMI 201.5 122 50 28.18 P 0 31.90 31.54 -0.3900.000 0.00 3.72 66.23-62.51 0.000 163 1
LRM 214.1 36 50 29.00 P 0 32.72 33.11 2.3000.000 0.00 3.72 66.23-62.51 0.000 163 1
IMM 252.0 99 50 36.43 P 0 40.15 37.85 2.3000.000 0.00 3.72 66.23-62.51 0.000 163 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E MW ME SM Z N SE
AVE. OF END POINTS 0.44 0.50 0.53 0.56 0.56 0.77 0.77

NUMBER RMS MIN DRMS AVE DRMS QUALITY
30 0.19 0.28 0.60 8

HORIZONTAL SE = 0.57 SE = 0.79
AZ = -2. AZ = -92. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVIM SODM NF AVFM SDFM
331103 122 15.95 44N15.54 114W 4.90 5.04 3.19 29 6 103 1 0.15 0.8 0.8 8 818 0.15 10 61 0.00 0.13 0 0.0 0.0 11 3.2 0.3
SE OF ORIG = 0.057 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR=0-TTICAL-DELAY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR AMAG R FMP PMAG
NWSI 4.9 96 134 17.00 P00 1.15 1.30 -0.15 1.021 0.00-15.85 2.27-18.12 0.000 164 59 2.71
917 4.9 330 134 17.05 P00 1.20 1.30 -0.10 1.021 0.00-15.85 2.42-18.27 0.000 164 59 2.71
85U3 5.5 50 131 17.47 P00 1.62 1.38 0.24 1.021 0.00-15.85 2.42-18.27 0.000 164 59 2.71
843 5.6 91 130 17.38 P00 1.53 1.39 0.13 1.021 18.44 2.59 2.44 0.15 0.715 164 59 2.71
ANPI 9.9 143 115 18.02 P00 2.17 2.05 -0.12 1.021 0.00-15.85 3.59-19.44 0.000 164 59 2.71
944 11.3 32 112 17.98 P00 2.13 2.27 -0.14 1.021 19.75 3.90 3.98 -0.08 0.000 164 59 2.71
NSUI 12.2 100 110 18.28 P00 2.43 2.42 0.01 1.021 0.00-15.85 4.24-20.09 0.000 164 59 2.71
816 12.9 128 109 18.38 P00 2.53 2.54 -0.01 1.021 20.43 4.58 4.72 -0.14 0.715 164 70 2.91
315 13.1 227 109 18.59 P00 2.74 2.57 -0.17 1.021 20.43 4.58 4.72 -0.14 0.715 164 70 2.91
842 13.8 141 108 0.00 P 4 -15.85 2.70 -0.23 1.021 20.43 4.58 4.72 -0.14 0.715 164 70 2.91
81 16.1 8 105 18.71 P00 2.86 3.09 -0.23 1.021 20.43 4.58 4.72 -0.14 0.715 164 70 2.91
84 19.9 110 102 19.85 P00 4.00 3.73 0.26 1.021 0.00-15.85 6.55-22.70 0.000 164 59 2.71
M-2 19.9 122 102 19.70 P00 3.85 3.74 0.17 -0.06 1.021 0.00-15.85 6.55-22.70 0.000 164 59 2.71
DSPI 20.5 103 102 19.56 P00 3.71 3.84 -0.13 1.021 0.00-15.85 6.72-22.57 0.000 164 59 2.71
48AI 23.8 127 100 20.19 P00 4.34 4.42 -0.08 1.021 0.00-15.85 7.73-23.58 0.000 164 59 2.71
M-1 27.3 140 99 21.10 P00 5.25 5.06 0.30 -0.11 1.021 0.00-15.85 8.85-25.23 0.000 164 59 2.71
BRPI 28.6 159 99 21.25 P00 5.40 5.27 0.13 1.021 22.95 7.10 9.23 -2.13 0.000 164 59 2.71
8RCI 30.8 176 98 21.62 P00 5.77 5.67 0.10 1.021 24.02 8.17 9.93 -1.76 0.000 164 59 2.71
812 31.2 177 98 21.52 P00 5.67 5.74 -0.07 1.021 0.00-15.85 10.18-26.03 0.000 164 59 2.71
LSGS 31.6 111 98 21.44 P 0 5.59 5.81 -0.23 1.021 0.00-15.85 10.18-26.03 0.000 164 59 2.71
LCRI 36.0 132 65 22.21 P 0 6.36 6.58 -0.22 1.021 0.00-15.85 11.51-27.36 0.000 164 59 2.71
311 41.4 148 65 23.26 P 7.41 7.46 -0.05 1.021 25.86 10.01 13.06 -3.05 0.000 164 59 2.71
86 51.8 129 65 23.93 P 9.08 9.14 -0.06 1.021 0.00-15.85 29.58-45.44 0.000 164 59 2.71
88 55.7 144 65 25.63 P 9.78 9.77 0.01 1.021 0.00-15.85 30.25-46.10 0.000 164 59 2.71
87 62.6 139 65 27.00 P 11.15 10.90 0.28 -0.03 1.021 0.00-15.85 33.62-49.47 0.000 164 59 2.71
MPI 99.6 128 65 33.41 P00 17.56 16.91 0.65M0.000 0.00-15.85 35.14-50.99 0.000 164 59 2.71
MLPM 102.0 55 65 33.10 P00 17.25 17.29 -0.04 1.021 0.00-15.85 38.38-54.23 0.000 164 59 2.71
JGI 113.8 99 65 35.33 P00 19.48 19.21 0.27 1.021 0.00-15.85 46.64-62.49 0.000 164 59 2.71
ALCM 119.7 55 55 36.20 P00 20.35 20.08 0.27 1.021 0.00-15.85 56.62-72.47 0.000 164 59 2.71
C19 132.3 136 55 38.35 P00 22.50 21.93 0.57M0.000 0.00-15.85 59.31-75.16 0.000 164 59 2.71
GBI 164.4 101 55 43.42 P00 27.57 26.65 0.92M0.000 0.00-15.85 67.78-83.63 0.000 164 59 2.71
TMI 203.8 121 44 48.61 P00 32.76 32.35 -0.41M0.000 0.00-15.85 70.39-86.25 0.000 164 59 2.71
LRM 216.1 37 44 49.00 P 33.15 33.89 -0.74M0.000 0.00-15.85 70.39-86.25 0.000 164 59 2.71
IMW 254.8 99 44 56.57 P00 40.72 38.73 1.99M0.000 0.00-15.85 70.39-86.25 0.000 164 59 2.71
NPI 266.8 152 44 58.24 P 0 42.39 40.23 2.16M0.000 0.00-15.85 70.39-86.25 0.000 164 59 2.71

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z SE E SW NE M
AVE. OF END POINTS 0.07 0.08 0.10 0.11 0.12 0.13 0.13

NUMBER 14
RMS 0.15
MIN ORMS 0.07
AVE ORMS 0.11
QUALITY 0

HORIZONTAL										VERTICAL																		
SE = 1.42 AZ = -70.										SE = 1.07 QUALITY = A																		
DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M	RMS	ERM	ER2	Q	SOD	ADJ	IN	NR	AVR	AAR	MM	AVXM	SOXM	NF	AVFM	SOFM			
831103	224	13.92	44N19.06	114W 7.82	9.15	3.49	30	10	193	1	0.17	1.4	1.1	C	810	0.36	10	68	0.00	0.13	0	0.0	0.0	10	3.5	0.4		
SE DF ORIG = 0.10, 3 ITERATIONS TOTAL																												
----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----																												
STATION DATA --- VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---																												
STW	DIST	AZM	AIN	PSEC	PRMK+TCOR-DTTOR-TTICAL-DELAY-EDLY=	P-RES	P-WT	THIC	SSEC	SRMK	TTDR	TTICAL	S-RES	S-WT	AMX	PR	AMAG	R	FMP	FMAG								
817	2-7	148	162	15.661PO	1.74 1.70	0.04	1.020														166	90	3.11					
8503	8.7	110	132	16.57 P00	2.65 2.24	0.41	1.020														166		1					
864	10.3	73	126	16.28EP00	2.36 2.44	-0.08	1.020														166		1					
MWSEI	11.2	129	123	16.50 P00	2.58 2.57	0.01	1.020														166		1					
81	11.2	33	123	16.371PC	2.45 2.57	-0.12	1.020														166	117	3.41					
843	11.6	125	122	16.61 P00	2.69 2.62	0.07	1.020														166		1					
815	16.5	200	110	17.371PC	3.45 3.34	0.11	1.020														166		1					
AMPI	17.5	145	109	17.50 P00	3.58 3.49	0.09	1.020														166		1					
MSUI	18.1	119	108	17.47 P00	3.55 3.58	-0.03	1.020														166		1					
816	20.2	136	105	17.801PD	3.88 3.90	-0.02	1.020														166	115	3.41					
842	21.4	144	103	0.00 P 4	-13.92 4.10	0.00	P 4														166		1					
84	26.2	121	99	18.681PD	4.76 4.86	-0.10	1.020														166	114	3.41					
CSPI	26.2	115	99	18.59 P00	4.67 4.87	-0.20	1.020														166		1					
M-2	26.9	130	99	18.90 P00	4.88 4.98	0.17	0.17														166		1					
M-1	31.0	133	97	19.48 P00	5.56 5.63	-0.07	1.020														166		1					
4-1	34.9	142	96	20.70 P-0	6.78 6.25	0.30	0.30														166		1					
BRPI	36.1	157	96	20.35 P00	6.43 6.44	-0.02	1.020														166		1					
8KCI	37.7	171	95	20.42 P00	6.50 6.72	-0.22	1.020														166		1					
LS65	37.9	119	95	20.64 P 0	6.72 6.74	-0.02	1.020														166		1					
812	38.1	172	95	20.621PC	6.70 6.77	-0.07	1.020														166		1					
LCRI	43.3	135	94	21.52 P00	7.60 7.63	-0.03	1.020														166		1					
811	49.0	148	94	22.451PC	8.53 8.56	-0.03	1.020														166	89	3.31					
86	59.0	132	93	23.99EP0	10.07 10.17	-0.10	1.020														166	67	3.11					
88	63.2	144	93	24.76EP0	10.84 10.86	-0.02	1.020														166		1					
MDCI	65.3	125	92	24.83 P00	10.91 11.19	-0.28	1.020														166		1					
87	70.1	140	92	26.32EP 4	12.40 11.97	0.28	0.28														166		1					
MLPM	101.6	59	65	30.80 P00	16.88 17.06	-0.18	1.020														166		1					
MFI	106.7	129	65	32.15 P00	18.23 17.82	0.41	1.020														166		1					
JGI	118.9	102	65	33.73 P 0	19.81 19.60	0.20	1.020														166	112	3.71					
BLCM	119.4	59	65	33.80 P00	19.88 19.68	0.19	1.020														166		1					
C13	139.6	137	65	36.96 P00	23.04 22.66	0.3800	0.000														166		1					
GBI	169.3	103	65	41.42 P00	27.50 27.02	0.4800	0.000														166	125	3.91					
TMI	210.6	122	50	46.94 P00	33.02 32.72	0.2900	0.000														166		1					
LRM	213.1	38	50	46.20 P00	32.28 33.04	-0.7600	0.000														166	169	4.41					
RUT	225.1	33	50	51.20 P 0	37.28 34.54	2.7400	0.000														166		1					
IHW	239.8	100	50	53.91 P 0	39.99 38.87	1.1200	0.000														166		1					
MSD	279.5	3	50	54.10 P 0	40.18 41.34	-1.1700	0.000														166		1					
SMH	306.9	48	50	58.60 P 0	44.68 44.76	-0.0800	0.000														166		1					
NCM	320.0	354	50	59.90 P00	45.98 46.40	-0.4200	0.000														166		1					

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH E NW Z SE NE SW N
 AVE. OF END POINTS 0.37 0.42 0.43 0.45 0.53 0.56 0.58

DATE		ORIGIN	LAT	LONG	DEPTH	MAG	NO	Q3	GAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SQKM	NF	AVFM	SQFM		
831103		259	19.40	44N13.57	114W 2.59	7.60	3.47	32	5	78	1	0.15	0.8	1.1	6	81A	0.06	10	79	0.00	0.12	0	0.0	0.0	12	3.5	0.3	
SE OF ORIG =		0.054																										
STATION DATA --)		P-WAVE TRAVEL-TIME DATA AND DELAYS -----)																										
STN		DIST	AZM	AIN	PSEC	PRMK	TCOR	O	TT08	TTCL	EDLY	P	RES	P	MT	THIC	SSEC	SRMK	TT08	TTCL	S-RES	S-WT	ANX	PR	XMAG	R	FMP	PMAG
NWSI		3.7	30	151	21.00	P	0	1.60	1.53	0.07	1.019	0.00-19.40	2.68-22.08	0.000	167	1	0.00-19.40	2.68-22.08	0.000	167	1	0.00-19.40	2.68-22.08	0.000	167	1	0.00-19.40	2.68-22.08
843		4.3	36	146	21.08	P00	0	1.68	1.59	0.09	1.019	22.55	3.15	2.79	0.36	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1
ANPI		5.2	145	141	21.25	P	0	1.85	1.67	0.18	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
BSU3		7.3	9	130	21.46	P00	0	2.06	1.91	0.15	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
816		8.3	122	126	21.50	P00	0	2.10	2.03	0.07	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
NSUI		9.0	81	122	21.51	P	0	2.11	2.14	-0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
842		9.0	141	122	21.57	P00	0	2.17	2.14	0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
817		9.6	325	120	21.56	P00	0	2.16	2.22	-0.06	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
344		13.5	12	107	22.02	P00	0	2.62	2.79	0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
815		13.7	247	107	22.32	P00	0	2.92	2.81	-0.11	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
M-2		15.4	117	102	22.70	P00	0	3.30	3.10	0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
84		15.9	102	101	22.51	P00	0	3.11	3.17	-0.06	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
DSPI		16.9	93	99	22.64	P	0	3.24	3.34	0.10	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
M8AI		19.2	124	96	23.07	P	0	3.67	3.70	-0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
81		19.6	357	96	22.97	P00	0	3.57	3.77	-0.20	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
M-1		22.6	140	94	23.81	P00	0	4.61	4.25	0.36	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
8RPI		24.1	162	93	23.95	P	0	4.55	4.49	0.06	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
841		24.5	178	93	0.00	P	4	-19.40	4.56	-23.96	0.000	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
8RPI		27.1	182	93	24.22	P	0	4.82	4.97	-0.16	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
LSGS		27.5	183	93	24.24	P	0	4.84	5.04	-0.20	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
812		27.5	183	93	24.42	P00	0	5.02	5.04	-0.02	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
LCRI		31.3	131	92	25.11	P	0	5.71	5.66	0.05	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
811		36.7	149	92	26.00	P00	0	6.60	6.55	0.05	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
86		47.1	128	91	27.44	P00	0	8.04	8.24	-0.20	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
88		50.9	144	91	28.22	P00	0	8.82	8.85	-0.03	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
MOCI		53.9	120	91	28.33	P	0	8.93	9.34	-0.41	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
87		57.8	139	91	29.72	P00	0	10.32	9.98	0.34	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
MPI		95.0	127	90	35.71	P00	0	16.31	16.00	0.31	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
MLPM		101.7	52	90	36.50	P00	0	17.10	17.09	0.01	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
JGI		110.2	98	65	38.10	P	0	18.70	18.44	0.26	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
8LCM		119.4	53	65	39.50	P00	0	20.10	19.79	0.30	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
C13		121.5	136	65	40.81	P00	0	21.41	20.98	0.43	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
8BI		160.7	99	65	45.73	P	0	26.33	25.87	0.46	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
T10		172.0	242	65	47.77	P	0	28.37	27.52	-0.85	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
CPI		185.4	258	65	48.57	P00	0	29.17	29.49	-0.32	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
CMI		195.7	80	65	51.20	P	0	31.80	31.02	0.78	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33
TMI		199.3	121	50	50.95	P	0	31.55	31.47	0.08	1.019	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.33	0.000	167	1	0.00-19.40	2.93-22.3

83/11/ 3 3/32 -----BEGIN-----BEGIN-----83/11/ 3 3/32

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831103 332 51.77 44N11.62 114W 0.07 8.10 2.38 14 7 95 1 0.06 0.5 0.5 8 A18 0.83 10 14 0.00 0.04 0 0.0 0.0 8 2.4 0.2
SE OF ORIG = 0.028 3 ITERATIONS TOTAL

HORIZONTAL SE = 0.29 SE = 0.53 VERTICAL SE = 0.54 QUALITY = A
AZ = -32. AZ = -122.

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 3.8 101 152 53.401PD 1.63 1.61 0.02 1.045 54.59 2.82 2.87 -0.05 0.731 168 43 2.51
842 4.1 147 150 53.431P 1.66 1.64 0.02 1.045 55.19 3.42 3.42 0.01 0.731 168 1
843 7.2 354 133 53.811P 2.04 1.95 0.09 1.045 168 46 2.61
84 12.2 88 115 54.351PD 2.58 2.63 -0.05 1.045 168 23 2.01
817 14.6 322 108 54.70EPC 2.93 2.98 -0.05 1.045 168 39 2.41
815 16.0 264 105 54.98EPD 3.21 3.22 -0.01 1.045 168 45 2.61
81 23.6 350 96 56.171P 4.40 4.43 -0.02 1.045 168 34 2.41
812 24.3 191 96 56.281PC 4.51 4.54 -0.03 1.045 168 22 2.01
811 31.9 151 94 57.51EPC 5.74 5.77 -0.03 1.045 168 45 2.71
86 42.3 127 92 59.14EPC 7.37 7.44 -0.07 1.045 168 1
88 46.0 145 92 59.97EPC 8.20 8.06 0.15 1.045 168 1
87 52.9 139 92 61.221P 9.45 9.17 0.28 0.00 1.045 168 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW N SE
AVE. OF END POINTS 0.54 0.59 0.71 0.85 0.85 1.05 1.15
NUMBER RMS MIN ORMS AVE ORMS QUALITY
14 0.06 0.56 0.85 A

83/11/ 3 4/15 BEGIN-----BEGIN-----83/11/ 3 4/15

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SOFM
831103 415 16.47 46N14.84 114W 5.45 6.27 3.56 28 6 114 1 0.20 1.1 0.9 8 818 0.89 10 72 0.00 0.15 0 0.0 0.0 9 3.6 0.3
SE OF ORIG = 0.076 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSC SRMK TTQB TTCL S-RES S-WT ANX PR XMAG R FMP FMAG
169 1
317 5.8 343 136 17.861PD 1.39 1.57 -0.02 1.022 -0.18 1.022 19.38 2.91 2.89 0.02 0.715 169 95 3.11
843 6.4 80 133 18.21EPC0 1.90 1.72 0.09 1.022 0.09 1.022 0.00-16.47 3.00-19.48 0.000 169 1
95U3 6.9 46 131 18.37 P 0 1.74 1.72 0.18 1.022 0.00-16.47 2.89-19.48 0.000 169 1
AMPI 9.4 134 122 19.00 P 0 2.53 2.07 0.46 1.022 0.00-16.47 3.63-20.10 0.000 169 1
315 11.7 229 117 19.081PC 2.61 2.43 0.18 1.022 0.00-16.47 3.63-20.10 0.000 169 1
816 12.7 122 115 17.881PD 1.41 2.60 -0.19 0.000 0.00-16.47 4.55-21.02 0.000 169 95 3.21
NSUI 12.7 94 115 18.97 P 0 2.50 2.60 -0.10 1.022 0.00-16.47 4.55-21.02 0.000 169 1
844 12.8 32 115 18.89 PC0 2.42 2.61 -0.19 1.022 20.75 4.28 4.56 -0.28 0.000 169 1
842 13.3 135 114 0.00 P 4 -16.47 2.70 -19.17 0.000 21.11 4.64 4.72 -0.08 0.715 169 1
81 17.5 10 108 19.671PC 3.20 3.39 -0.19 1.022 0.00-16.47 6.64-23.41 0.000 169 122 3.41
M-2 19.9 118 106 20.30 PC0 3.83 3.80 0.17 -0.14 1.022 0.00-16.47 6.64-23.41 0.000 169 1
84 20.1 106 106 20.251P 3.78 3.84 -0.06 1.022 0.00-16.47 6.96-23.43 0.000 169 128 3.51
OSPI 20.9 99 105 20.34 P 0 3.87 3.98 -0.11 1.022 0.00-16.47 7.77-24.24 0.000 169 1
MBAI 23.6 124 103 20.96 PC0 4.69 4.64 0.05 1.022 0.00-16.47 7.77-24.24 0.000 169 1
841 27.2 170 65 0.00 P 4 -16.47 5.06 -21.53 0.000 25.09 8.62 8.66 -0.24 0.000 169 1
8RPI 27.6 156 65 21.60 P 0 5.13 5.12 0.01 1.022 0.00-16.47 8.96-25.44 0.000 169 1
BRCI 29.6 174 65 21.81 PC0 5.34 5.44 -0.10 1.022 0.00-16.47 9.52-25.99 0.000 169 1
812 29.9 175 65 21.911PC 5.44 5.50 -0.06 1.022 0.00-16.47 10.17-26.64 0.000 169 1
LSGS 31.8 109 65 22.24 PC0 5.77 5.81 -0.04 1.022 0.00-16.47 11.27-27.74 0.000 169 1
LCRI 35.7 130 65 22.79 PC0 6.32 6.44 -0.12 1.022 0.00-16.47 11.27-27.74 0.000 169 1
811 40.7 146 65 23.56EPD 7.09 7.25 -0.16 1.022 0.00-16.47 17.71-34.18 0.000 169 102 3.41
88 51.6 127 65 25.34EPC 8.87 9.01 0.01 1.022 0.00-16.47 17.71-34.18 0.000 169 1
88 55.1 142 65 26.061PD 9.59 9.58 -0.41 1.022 0.00-16.47 17.71-34.18 0.000 169 1
MDCI 58.4 120 65 26.18 PC0 9.71 10.12 0.24 0.000 0.00-16.47 29.36-45.83 0.000 169 111 3.51
97 62.1 138 65 27.72EP 4 11.25 10.72 0.42 1.022 0.00-16.47 30.47-46.94 0.000 169 1
MPI 99.4 127 65 33.67 PC0 17.20 16.78 0.02 1.022 44.73 28.26 33.53 -5.27 0.000 169 169 4.01
MLPM 103.3 55 65 33.90 PC0 17.43 17.41 0.29 1.022 0.00-16.47 35.27-51.74 0.000 169 1
JGI 114.3 99 55 35.92 PC0 19.45 19.16 0.38 1.022 54.01 37.54 38.04 -0.51 0.000 169 135 3.91
CLCM 121.1 55 55 37.00 PC0 20.53 20.15 0.6100.000 0.00-16.47 46.54-63.02 0.000 169 144 4.11
CIB 131.9 135 55 38.82 PC0 22.35 21.74 0.5300.000 72.94 56.47 56.23 0.14 0.000 169 1
GBI 164.9 100 55 43.60 PC0 27.13 26.60 0.2800.000 0.00-16.47 59.36-75.83 0.000 169 1
YMI 203.8 121 44 48.94 PC0 32.47 32.19 -0.2900.000 78.40 61.93 62.10 -0.18 0.000 169 1
LRM 217.6 36 44 50.10 PC0 33.43 33.92 2.8400.000 0.00-16.47 67.61-84.08 0.000 169 1
BUT 230.2 31 44 54.80 P 0 38.33 35.49 0.8300.000 0.00-16.47 69.94-86.41 0.000 169 1
IMW 255.3 99 44 55.94 P 0 39.47 38.64 2.2300.000 0.00-16.47 74.59-91.06 0.000 169 1
MPI 266.0 151 44 58.67 P 0 42.20 39.97 -2.5900.000 0.00 43.53 76.07-32.54 0.000 169 1
MSO 287.2 2 44 56.50 P 0 40.03 42.62 2.6800.000 0.00 43.53 79.53-36.00 0.000 169 1
MLI 294.0 147 44 2.54 P 0 46.07 43.47 0.4800.000 0.00 43.53 83.53-40.00 0.000 169 1
SXM 309.8 47 44 2.40 P 0 45.93 45.45 -0.3000.000 0.00 43.53 83.53-40.00 0.000 169 1
NCM 328.1 354 44 3.90 P 0 47.43 47.73 -0.3000.000 0.00 43.53 83.53-40.00 0.000 169 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E NM SW NE SE N

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M	RMS	ERM	ERZ	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVNM	SDNM	NF	AVFM	SDFM	
831103	447 35.07	44N16.29	114W 2.79	10.11	3.43	32	3	68	1	0.16	1.1	1.0	8	814	0.61	10	73	0.00	0.13	0	0.0	0.0	11	3.4	0.3	
SE OF ORIG = 0.070 3 ITERATIONS TOTAL																										
(--- STATION DATA ---) (--- P-WAVE TRAVEL-TIME DATA AND DELAYS ---) (--- S-WAVE TRAVEL-TIME DATA ---) (--- MAGNITUDE DATA ---)																										
SYN	DIST	AZM	AIN	PSEC	PRMK	TCOR-D	TT08	TTICAL	DELTA-EDLV	P-RES	P-WT	THIC	SSEC	SRMK	TT08	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG		
8503	2.6	34	164	37.67	P	0	2.00	1.05		0.15	1.019		0.00-35.67	3.23-38.90	0.000				170				170	1		
NMSI	2.8	132	163	37.50	P00		1.83	1.85		-0.03	1.019		0.00-35.67	3.24-38.92	0.000				170				170	1		
343	3.2	118	161	37.70	P	0	2.03	1.87		0.15	1.019		39.37	3.70	3.28	0.42	0.000			170				170	1	
817	6.0	298	166	37.72	P0		2.05	2.08		-0.03	1.019									170				170	74 3.01	
844	8.8	21	135	37.90	P	0	2.23	2.37		-0.14	1.019		39.83	4.16	4.14	0.02	0.713			170				170	1	
ANPI	9.8	161	131	38.40	P00		2.73	2.69		0.24	1.019		0.00-35.67	4.35-40.02	0.000				170				170	1		
NSUI	9.8	111	131	38.25	P	0	2.58	2.49		0.09	1.019		0.00-35.67	4.36-40.03	0.000				170				170	1		
816	11.9	142	125	38.48	P0		2.81	2.74		0.07	1.019									170				170	113 3.31	
842	13.5	154	121	38.69	P	0	3.02	2.96		0.05	1.019									170				170	1	
81	14.6	358	119	38.62	IPC		2.95	3.12		-0.17	1.019		41.09	5.42	5.19	0.23	0.713			170				170	1	
815	16.1	230	116	39.02	IPC		3.35	3.34		0.01	1.019									170				170	1	
84	17.8	118	112	39.28	IPC		3.61	3.60		-0.02	1.019		0.00-35.67	6.38-42.05	0.000				170				170	1		
DSPI	18.1	109	112	39.29	P	0	3.62	3.64		-0.02	1.019		0.00-35.67	6.47-42.44	0.000				170				170	1		
M-2	18.5	131	111	39.30	P00		3.63	3.70	0.17	-0.24	1.019		0.00-35.67	7.56-43.23	0.000				170				170	1		
48A1	22.6	135	106	39.99	P00		4.32	4.32		0.00	1.019		0.00-35.67	8.73-44.93	0.000				170				170	1		
M-1	26.8	147	102	40.96	P00		5.29	4.99	0.30	0.00	1.019		0.00-35.67	9.34-45.01	0.000				170				170	1		
BRPI	29.0	165	101	41.10	P	0	5.43	5.34		0.09	1.019		0.00-35.67	10.22-45.89	0.000				170				170	1		
BRPI	32.1	181	99	41.42	PC0		5.75	5.84		-0.09	1.019		0.00-35.67	11.02-46.69	0.000				170				170	1		
912	32.5	182	99	41.54	IPC		5.87	5.91		-0.04	1.019		0.00-35.67	11.02-46.69	0.000				170				170	1		
LCR1	35.0	137	98	41.81	P00		6.14	6.29		-0.16	1.019		0.00-35.67	13.15-48.82	0.000				170				170	84 3.21		
811	41.3	153	96	43.01	IPC		7.34	7.31		0.03	1.019		79.94	44.27	15.41	28.86	0.000			170				170	1	
838	42.5	133	96	43.06	P	0	7.39	7.51		-0.12	1.019		0.00-35.67	17.19-52.46	0.000				170				170	115 3.51		
86	50.6	132	95	44.29	IPC		8.62	8.81		-0.19	1.019		0.00-35.67	17.19-52.46	0.000				170				170	90 3.31		
38	55.2	147	94	45.05	IPC		9.38	9.56		-0.18	1.019		0.00-35.67	17.19-52.46	0.000				170				170	128 3.81		
MDCI	56.9	125	94	45.14	P00		9.47	9.82		-0.36	1.019		0.00-35.67	17.19-52.46	0.000				170				170	1		
87	61.8	142	94	46.51	IPC		10.84	10.63	0.28	-0.07	1.019		0.00-35.67	28.90-64.57	0.000				170				170	126 3.81		
MPI	98.3	129	65	52.55	P00		16.88	16.51		0.37	1.019		0.00-35.67	29.05-64.72	0.000				170				170	1		
MLPM	98.9	55	65	52.10	PC0		16.43	16.60		-0.17	1.019		65.80	30.13	32.24	-2.11	0.000			170				170	126 3.81	
JGI	111.3	100	65	54.34	P	0	18.67	18.42		0.24	1.019		0.00-35.67	33.63-69.30	0.000				170				170	1		
3LCM	116.6	55	65	55.20	PC0		19.53	19.21		0.31	1.019		72.56	36.89	37.41	-0.52	0.000			170				170	123 3.81	
C19	131.4	137	65	57.31	P00		21.64	21.38		0.2600	0.000		0.00	24.33	55.24	-30.92	0.000			170				170	1	
GRI	161.9	101	65	1.82	P00		24.15	25.87		0.2800	0.000		0.00	24.33	55.24	-30.92	0.000			170				170	1	
TMI	202.1	122	50	7.29	P00		31.62	31.57		0.8500	0.000		0.00	24.33	55.24	-30.92	0.000			170				170	1	
LRM	213.4	36	50	7.90	PC0		32.23	32.97		-0.7400	0.000		0.00	24.33	57.70	-33.37	0.000			170				170	1	
OUT	226.0	31	50	13.00	P	0	37.33	34.56		2.7700	0.000		39.60	63.93	60.48	3.45	0.000			170				170	1	
IMW	252.3	99	50	14.06	P	0	38.39	37.84		0.5500	0.000		0.00	24.33	66.21	-41.88	0.000			170				170	1	
NPI	266.7	152	50	17.29	P	0	41.62	39.64		1.9800	0.000		0.00	24.33	69.36	-45.03	0.000			170				170	1	
MSO	284.4	2	50	16.50	P	0	40.83	41.85		-1.0200	0.000		0.00	24.33	73.24	-48.92	0.000			170				170	1	
MLI	294.3	148	50	20.92	P	0	45.25	43.10		2.1500	0.000		0.00	24.33	75.42	-51.09	0.000			170				170	1	
SXM	305.4	47	50	20.20	P	0	44.53	44.48		0.9500	0.000		0.00	24.33	77.85	-53.52	0.000			170				170	1	
NCH	325.8	353	50	22.20	PC0		46.53	47.03		-0.5000	0.000		0.00	24.33	82.30	-57.97	0.000			170				170	1	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E 2 NW SW NE SE N

```
-----BEGIN-----BEGIN-----
83/11/ 3 5/38 83/11/ 3 5/38
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HORIZONTAL	SE = 0.61	SE = 1.06	VERTICAL	SE = 1.09	QUALITY = A
	AZ = -19.	AZ = -109.			

[illegible]

STATION DATA -)										P-WAVE TRAVEL-TIME DATA AND DELAYS										VARI										S-WAVE TRAVEL-TIME DATA										MAGNITUDE DATA									
STN	AZM	AIN	PSEC	PRMK	TCOR	QCOR	TTICAL	DELAY	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTQB	TTICAL	S-RES	S-WT	AMK	PR	KMAG	R	FMP	FMAG																									
462	3.7	307	143	13.22	P 0		1.30	1.19		0.10	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61		1																									
B16	5.2	342	134	13.38	P0		1.46	1.37		0.09	1.021		16.30	4.38	2.48	1.60	0.000			171	53	2.61	</																										

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	SW	NE	E	NW	SE	N
Ave. of end points	0.34	0.57	0.62	0.72	0.80	0.93	1.02

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
28	0.21		0.51		0.76	8

END

1

0.41

END

83/11/ 3 9/23 -----BEGIN-----BEGIN-----83/11/ 3 9/23

MGRIZUNTAL
SE = 0.83
AZ = -11.
SE = 1.00
AZ = -101.
VERTICAL
SE = 2.56
QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831103 923 45.18 44N 9.60 113W58.35 12.43 13 8 121 1 0.10 1.0 2.6 8 818 1.02 10 26 0.00 0.08 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.154 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PMK+TCOR-D-TT08-TTCAL-DELT-EOLY= P-RES P-WT THIC SSEC SRMK TYOB TTCL S-RES S-WT AMX PR XHAG R FMP FMAG
ANPI 4.1 319 160 47.39 P 0 2.21 2.28 -0.07 1.035 0.00-45.18 3.99-49.17 0.000
WSUI 7.0 23 148 47.80 P 0 2.62 2.48 0.14 1.035 0.00-45.18 4.34-49.52 0.000
M-2 8.1 88 144 47.90 PC0 2.72 2.58 0.17 -0.03 1.035 0.00-45.18 4.52-50.00 0.000
NSUI 9.4 20 140 47.94 PC0 2.76 2.71 0.05 1.035 47.99 2.81 4.75 -1.94 0.000
MBAI 10.8 109 136 48.09 PC0 2.91 2.86 0.05 1.035 0.00-45.18 5.01-50.19 0.000
NMSI 11.2 340 135 48.00 PD0 2.82 2.91 -0.09 1.035 0.00-45.18 5.10-50.28 0.000
DSPI 13.0 60 130 48.32 PD0 3.14 3.12 0.02 1.035 49.10 3.92 5.47 -1.55 0.000
M-1 13.3 139 129 48.41 PD0 3.23 3.16 0.30 -0.23 1.035 0.00-45.18 5.53-51.24 0.000
WSU3 15.2 343 125 48.56 P 0 3.38 3.40 -0.02 1.035 0.00-45.18 5.94-51.12 0.000
BRPI 15.7 174 124 48.77 P+0 3.59 3.47 0.12 1.035 50.75 5.57 6.07 -0.50 0.000
LSG5 20.7 92 116 49.43 PC0 4.25 4.17 0.08 1.035 0.00-45.18 7.30-52.48 0.000
ARCI 20.8 198 116 49.41 PC0 4.23 4.18 0.05 1.035 50.96 5.78 7.32 -1.54 0.000
MDCI 45.5 116 100 53.12 P-1 7.94 8.04 -0.10 0.582 58.07 12.89 14.07 -1.18 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH I NE NW SW E SE N
AVE. OF END POINTS 0.22 0.48 0.54 0.55 0.55 0.68 0.73

NUMBER RMS MIN DRMS AVE DRMS QUALITY
13 0.10 0.18 0.36 8

83/11/ 3 10/45 BEGIN-----BEGIN-----83/11/ 3 10/45

HORIZONTAL SE = 0.70 SE = 1.00 VERTICAL SE = 1.43
AZ = -7. AZ = -97. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SDFM
831103 10-5 13-21 44M12.32 114W 2.68 7.69 2.09 31 6 76 1 0.19 1.0 1.4 8 81A 0.16 10 62 0.00 0.14 0 0.0 0.0 13 2.9 0.3
SE OF ORIG = 0.069 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTICAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAF
ANPI 3.6 122 152 14.81 P00 1.60 1.54 0.05 1.035 0.00-13.21 2.70-15.91 0.000 174 1
NWSI 5.8 19 138 14.90 P00 1.69 1.75 -0.06 1.035 0.00-13.21 3.07-16.28 0.000 174 1
9-3 6.4 24 135 15.15 P 0 1.94 1.82 0.12 1.035 16.62 3.41 3.18 0.23 0.724 174 1
816 7.4 106 130 15.17 P0 1.96 1.94 0.02 1.035 0.00-13.21 3.39-16.61 0.000 174 58 2.71
842 7.5 130 130 17.34 P 4 4.33 1.94 2.39 0.000 0.00-13.21 3.39-16.61 0.000 174 1
WSUI 8.6 81 121 15.61 P00 2.40 2.07 0.33 1.035 0.00-13.21 3.62-16.83 0.000 174 1
9SU3 9.6 8 121 15.46 P00 2.25 2.22 0.33 1.035 0.00-13.21 3.89-17.10 0.000 174 1
NSUI 9.8 67 120 15.41 P 0 2.20 2.25 -0.05 1.035 0.00-13.21 3.93-17.15 0.000 174 1
817 11.6 332 114 15.65 P0 2.44 2.51 -0.07 1.035 0.00-13.21 5.21-18.72 0.000 174 41 2.41
815 12.8 256 110 16.05 P0 2.84 2.70 0.14 1.035 0.00-13.21 5.21-18.72 0.000 174 50 2.61
M-2 14.6 109 105 16.30 P0 3.09 2.98 0.17 -0.06 1.035 0.00-13.21 5.21-18.72 0.000 174 1
84 15.7 94 103 16.24 P0 3.03 3.14 -0.11 1.035 0.00-13.21 5.21-18.72 0.000 174 55 2.71
844 15.8 11 102 0.00 P 4 -13.21 3.17 -16.38 0.000 18.44 5.23 5.54 -0.31 0.724 174 1
OSPI 17.1 85 100 16.44 P00 3.23 3.36 -0.13 1.035 0.00-13.21 5.87-19.08 0.000 174 1
WMAI 18.0 118 98 16.73 P00 3.52 3.52 0.00 1.035 0.00-13.21 6.16-19.38 0.000 174 1
M-1 20.9 136 96 17.22 P0 4.01 3.98 0.30 -0.28 1.035 0.00-13.21 6.97-20.71 0.000 174 1
8RPI 21.9 160 95 17.45 P0 4.24 4.14 0.10 1.035 20.35 7.14 7.25 -0.11 0.000 174 1
81 21.9 358 95 17.16 P0 3.95 4.15 -0.20 1.035 20.30 7.09 8.06 -0.97 0.000 174 65 2.91
8RCI 24.8 182 94 17.80 P0 4.59 4.60 -0.01 1.035 20.30 7.09 8.06 -0.97 0.000 174 1
812 25.2 183 94 17.84 P0 4.63 4.67 -0.04 1.035 0.00-13.21 8.70-21.91 0.000 174 1
LSGS 27.0 102 93 18.03 P 0 4.82 4.97 -0.15 1.035 0.00-13.21 8.70-21.91 0.000 174 1
LCRI 29.9 127 93 18.30 P 0 5.09 5.44 -0.35 1.035 0.00-13.21 9.51-22.72 0.000 174 1
811 34.8 147 92 19.31 P0 6.10 6.23 -0.13 1.035 0.00-13.21 16.05-29.27 0.000 174 51 2.71
86 45.8 125 91 21.20 P0 7.99 8.03 -0.04 1.035 0.00-13.21 16.05-29.27 0.000 174 32 2.41
58 49.1 142 91 21.74 P0 8.53 8.56 -0.03 1.035 0.00-13.21 16.05-29.27 0.000 174 1
MDCI 52.9 118 91 22.09 P0 8.88 9.17 0.28 -0.30 0.582 0.00-13.21 16.05-29.27 0.000 174 1
97 56.2 137 91 23.24 P0 10.03 9.71 0.04 1.035 0.00-13.21 27.63-40.84 0.000 174 57 2.91
MPI 93.7 126 91 29.60 P 0 16.39 15.79 0.60 1.035 0.00-13.21 30.33-43.54 0.000 174 53 3.01
MLPM 103.2 51 90 30.60 P0 17.39 17.33 0.06 1.035 0.00-13.21 32.27-45.48 0.000 174 1
JCI 110.2 97 65 31.95 P 0 18.64 18.44 0.20 1.035 0.00-13.21 35.05-48.26 0.000 174 58 3.11
BLCM 121.1 52 65 33.50 P0 20.29 20.03 0.26 1.035 0.00-13.21 36.31-49.52 0.000 174 1
C18 125.9 135 65 34.50 P 0 21.19 20.75 0.44 0.000 0.00-13.21 36.31-49.52 0.000 174 62 3.21
G81 160.5 99 65 39.43 P 0 26.22 25.83 0.39 0.000 0.00-13.21 45.20-58.41 0.000 174 64 3.41
TMI 198.2 120 50 44.73 P 0 31.52 31.33 0.19 0.000 0.00-13.21 54.82-68.03 0.000 174 68 3.51
LWM 219.3 35 50 46.60 P0 33.39 33.96 -0.57 0.000 0.00-13.21 59.43-72.64 0.000 174 1
IMW 251.0 98 50 52.38 P 0 39.17 37.93 1.24 0.000 0.00-13.21 66.38-79.59 0.000 174 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW NE E SW SE N
AVE. OF END POINTS 0.39 0.57 0.58 0.59 0.62 0.83 0.88

NUMBER RMS MIN DRMS AVE DRMS QUALITY
31 0.19 0.46 0.67 A

11/ 3

TE 103 11
OF ORI
STAYING
N DIS 5.
I I 9.
I 9.
I 11.
I 11.
I 12.
I 12.
I 13.
I 14.
I 17.
I 18.
I 21.
I 45.

QUALITY EVALUATION

RENGTH 2
0.24 0.

5

END---

83/11/ 3 12/18 BEGIN-----BEGIN-----83/11/ 3 12/18

HORIZONTAL SE = 0.97 SE = 1.03 VERTICAL SE = 1.35
AZ = -28. AZ = -118. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM MF AVFM SDFM
831103 1218 35.88 44N20.90 114W 4.69 7.47 2.33 12 6 170 1 0.10 1.0 1.3 C 61C 0.14 10 12 0.00 0.08 0 0.0 0.0 7 2.3 0.1
SE OF ORIG = 0.092 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)
SYM DIST AZM AIN PSEC PRMK+TCOR-DATTOB-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR XMAG R FMP FMAG
844 5.7 93 137 37.571P 1.69 1.71 -0.02 1.053 38.85 2.97 2.99 -0.02 0.737 176 30 2.21 1
817 6.3 206 134 37.651PD 1.77 1.78 -0.01 1.053 40.20 4.32 4.31 0.00 0.737 176 43 2.51 1
81 6.3 17 134 37.711PC 1.83 1.78 0.05 1.053 176 30 2.21 1
843 11.4 152 113 38.391P 2.51 2.47 0.04 1.053 176 36 2.41 1
816 20.4 151 94 39.69EPC 3.81 3.89 -0.08 1.053 176 34 2.31 1
815 21.3 207 94 39.84EPC 3.96 4.03 -0.07 1.053 176 25 2.21 1
94 24.9 133 92 40.34EPC 4.46 4.62 -0.16 1.053 176 39 2.61 1
811 50.0 154 91 44.75EPC 8.87 8.70 0.16 1.053 176 25 2.21 1
86 58.3 137 91 45.86EPC 9.98 10.05 -0.07 1.053 176 39 2.61 1
88 63.8 149 91 47.00EPC 11.12 10.94 0.18 1.053 176 39 2.61 1

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW N NW NE SE Z E
AVE. OF END POINTS 0.09 0.11 0.15 0.16 0.18 0.22 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
8 0.10 0.01 0.16 D

-----END-----END-----END-----END-----

83/11/ 3 12/33 BEGIN-----BEGIN-----83/11/ 3 12/33

HORIZONTAL SE = 0.42 SE = 0.61 VERTICAL SE = 0.52
AZ = -19. AZ = -109. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERH ERZ Q SOD ADJ IN NR AVR AIR NM AVIM SODM MF AVFM SDFM
831103 1233 3.05 48N16.03 114W 1.28 5.69 2.19 14 9 112 1 0.08 0.6 0.5 B A18 0.07 10 14 0.00 0.07 0 0.0 0.0 7 2.2 0.2
SE OF ORIG = 0.032 4 ITERATIONS TOTAL

(- STATION DATA -) (------ P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-0=TT08-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
843 1.4 145 166 4.161P 1.11 1.08 0.03 1.045 5.00 1.95 1.89 0.06 0.731 177 23 1.91
817 8.0 294 124 4.75EPC 1.70 1.80 -0.10 1.045 6.27 3.22 3.32 -0.10 0.731 177 29 2.11
844 8.7 8 122 5.061P 2.01 1.90 -0.12 1.045 0.03 1.045 177 32 2.21
816 10.5 150 117 5.191PC 2.14 2.18 -0.04 1.045 0.04 1.045 177 29 2.21
81 15.2 350 109 6.041PC 2.99 2.96 0.03 1.045 177 1
84 15.9 120 108 6.03EPC 2.98 3.09 -0.11 1.045 177 29 2.21
915 17.5 235 106 6.45EPC 3.40 3.36 0.04 1.045 177 1
812 32.3 186 65 8.911PD 5.86 5.93 -0.02 1.045 177 20 1.91
811 40.0 155 65 10.21EPC 7.16 7.18 -0.02 1.045 177 33 2.41
86 48.8 133 65 11.60EPC 8.55 8.61 -0.06 1.045 177 38 2.51
88 53.8 148 65 12.52EPC 9.47 9.42 0.05 1.045
87 60.3 143 65 13.94EPC 10.89 10.48 0.28 0.13 1.045

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N E SW Z NW NE
AVE. OF END POINTS 0.08 0.13 0.13 0.14 0.14 0.16 0.20

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.08 0.02 0.14 0

03/11/ 3 12/51 -----BEGIN-----BEGIN-----BEGIN-----03/11/ 3 12/51

SE = 1.07 HORIZONTAL SE = 1.53 VERTICAL
AZ = -6. AZ = -96. SE = 2.17 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SOFM
831103 1251 9.08 44N 9.80 113W59.17 7.96 3.75 16 10 135 1 0.18 1.5 2.2 8 818 0.06 10 48 0.00 0.14 0 0.0 0.0 4 3.7 0.2
SE OF ORIG = 0.103 9 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
ANPI 3.2 330 156 10.88 P00 1.80 1.55 0.25 1.000 0.00 -9.08 2.71-11.79 0.000
WSUI 1.2 32 132 11.10 P00 2.02 1.93 0.09 1.000 0.00 -9.08 3.38-12.46 0.000
NSUI 9.5 27 123 11.28 P00 2.20 2.23 -0.03 1.000 0.00 -9.08 3.91-12.99 0.000
NWSI 10.5 365 119 11.30 P00 2.22 2.37 -0.15 1.000 0.00 -9.08 4.15-13.23 0.000
MBAI 11.9 109 114 11.77 P00 2.69 2.58 0.11 1.000 0.00 -9.08 4.51-13.59 0.000
JSPI 13.8 63 109 11.94 P00 2.86 2.86 0.00 1.000 0.00 -9.08 5.00-14.08 0.000
BSU3 14.6 347 107 11.95 P00 2.87 2.97 -0.10 1.000 0.00 -9.08 5.20-14.28 0.000
BRPI 16.2 170 104 12.40 P00 3.32 3.23 0.09 1.000 14.50 5.42 5.66 -0.24 0.000
ARCI 20.8 195 98 12.90 P00 3.82 3.97 -0.15 1.000 0.00 -9.08 6.95-16.03 0.000
LSGS 21.8 92 97 13.20 P00 4.12 4.13 -0.01 1.000 0.00 -9.08 7.23-16.31 0.000
LCRI 23.4 125 96 13.20 P 0 4.12 4.39 -0.27 1.000 0.00 -9.08 7.68-16.76 0.000
MOCI 46.6 116 92 16.84 P00 7.76 8.15 -0.39 1.000 0.00 -9.08 14.26-23.34 0.000
API 87.2 125 91 24.01 P 0 14.93 14.75 0.18 1.000 0.00 -9.08 25.81-34.89 0.000
MLPM 102.6 48 91 29.80 P00 20.72 17.25 3.47M0.000 0.00 -9.08 30.19-39.26 0.000
JGI 105.1 94 91 26.72 P00 17.64 17.65 -0.01 1.000 0.00 -9.08 30.89-39.97 0.000
CIB 119.3 135 65 29.14 P00 20.06 19.75 0.31 1.000 0.00 -9.08 34.57-43.65 0.000
8LCM 120.5 49 65 29.10 P00 20.02 19.92 0.10 1.000 0.00 -9.08 34.87-43.94 0.000
GBI 155.2 97 65 34.51 P00 25.43 25.03 0.40M0.000 0.00 -9.08 43.81-52.89 0.000
TMI 192.0 120 65 39.33 P 0 30.25 30.45 -0.20M0.000 0.00 -9.08 53.28-62.36 0.000
LRM 220.5 33 50 42.50 P 0 33.42 34.09 -0.67M0.000 0.00 -9.08 59.66-68.74 0.000
BUT 234.1 29 50 47.80 P 0 38.72 35.79 2.93M0.000 71.10 62.02 62.63 -0.61 0.000
IMW 246.2 97 50 47.29 P 0 38.21 37.30 0.91M0.000 0.00 -9.08 65.27-74.35 0.000
MSD 296.3 1 50 51.50 P 0 43.42 43.56 -0.14M0.000 0.00 -9.08 76.23-85.31 0.000
SXM 310.4 45 50 0.60 P 0 51.52 45.33 6.19M0.000 0.00 50.92 79.33-28.41 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE SW E Z N SE NW
AVE. OF END POINTS 0.04 0.06 0.07 0.07 0.07 0.08 0.10 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
N N N N N

xx

xx

83/11/ 3 14/14 BEGIN-----BEGIN-----83/11/ 3 14/14

HORIZONTAL SE = 1.09 SE = 2.68 VERTICAL SE = 1.18
AZ = 10. AZ = -80. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831103 1414 18.06 44N14.58 114W 5.34 5.90 4.19 18 9 228 1 0.17 2.7 1.2 D CID 0.08 10 64 0.00 0.14 0 0.0 0.0 3 4.2 0.2
SE OF DRIG = 0.197 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYM DIST AZM AIN PSEC PRMK+TCOR-DSTT08-TTICAL-DELAY-EDLV= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
MWSI 5.6 76 135 19.50 P 0 1.44 1.50 -0.06 1.000 0.00-18.06 3.45-21.51 0.000
BSUJ 7.2 42 128 19.70 PC0 1.64 1.71 -0.07 1.000 0.00-18.06 4.45-22.51 0.000
AMPI 9.0 133 122 20.34 P 0 2.28 1.97 0.31 1.000 0.00-18.06 6.51-24.86 0.000
WSUI 12.3 103 114 20.61 PC0 2.55 2.50 0.05 1.000 0.00-18.06 7.07-24.93 0.000
WSUI 12.6 92 113 20.60 P 0 2.54 2.55 -0.14 1.000 0.00-18.06 7.63-25.68 0.000
M-2 19.5 117 105 21.90 PC0 3.84 3.72 0.17 -0.05 1.000 0.00-18.06 8.59-27.17 0.000
JSPI 20.7 97 104 21.84 P 0 3.78 3.92 -0.05 1.000 26.65 8.59 8.81 -0.22 0.000
MBAI 23.2 123 103 22.52 P 0 4.46 4.36 -0.14 1.000 0.00-18.06 9.41-27.47 0.000
M-1 26.4 137 101 23.22 PC0 5.16 4.91 0.30 -0.13 1.000 0.00-18.06 10.14-28.19 0.000
BRPI 27.1 156 101 23.15 P 0 5.09 5.03 -0.16 1.000 0.00-18.06 11.20-29.26 0.000
BRCI 29.1 174 100 23.30 P 0 5.24 5.38 -0.36 1.000 0.00-18.06 17.66-35.72 0.000
LSGS 31.6 108 65 23.72 P 0 5.66 5.79 0.33 1.000 0.00-18.06 29.30-47.36 0.000
LCRI 35.3 129 65 24.30 P00 6.24 6.40 0.09 1.000 0.00-18.06 30.56-48.62 0.000
MDCI 58.0 120 65 27.79 P 0 9.73 10.09 0.13 1.000 0.00-18.06 33.54-51.60 0.000
MPI 99.0 127 65 35.13 P 0 17.07 16.74 -0.20 1.000 0.00-18.06 35.38-53.44 0.000
MLPM 103.5 55 65 35.43 PC0 17.37 17.47 0.64M0.000 0.00-18.06 46.55-64.61 0.000
JGI 114.1 98 55 37.42 PC0 19.36 19.17 -0.70M0.000 0.00-18.06 47.83-65.89 0.000
BLCM 121.2 54 55 38.48 PC0 20.42 20.22 -0.41C0.000 0.00-18.06 50.99-69.05 0.000
CIB 131.4 135 55 40.31 PC0 22.25 21.71 0.60M0.000 0.00-18.06 55.38-73.44 0.000
GBI 164.7 100 55 45.30 P00 27.24 26.60 0.18C0.000 0.00-18.06 56.33-74.39 0.000
TID 169.6 241 55 46.09 PC0 28.03 27.33 -0.76M0.000 0.00-18.06 59.51-77.57 0.000
CPI 181.9 257 55 46.79 P 0 28.73 29.14 0.60M0.000 0.00-18.06 55.38-73.44 0.000
CMI 199.0 81 44 50.30 P 0 32.24 31.65 0.69M0.000 0.00-18.06 56.33-74.39 0.000
TMI 203.4 121 44 50.43 P 0 32.37 32.19 0.76M0.000 0.00-18.06 59.51-77.57 0.000
ACI 204.7 108 44 51.10 P 0 33.04 32.35 -0.54M0.000 0.00-18.06 62.26-80.32 0.000
LRM 217.9 36 44 51.30 P 0 33.24 34.00 -0.1000.000 0.00-18.06 64.11-82.17 0.000
DUT 230.5 31 44 53.10 P 0 35.04 35.58 1.18M0.000 0.00-18.06 67.65-85.71 0.000
API 238.9 244 44 54.79 PC0 36.73 36.63 2.16M0.000 0.00 41.94 69.92-27.98 0.000
IMW 255.1 99 44 57.90 P 0 39.84 38.66 1.29M0.000 0.00-18.06 74.77-92.83 0.000
MPI 265.5 151 44 0.17 P 3 42.11 39.95 -0.18C0.000 0.00 41.94 79.66-37.72 0.000
MSD 287.7 2 44 59.50 P 0 41.44 42.73 -0.70M0.000 0.00 41.94 83.72-41.78 0.000
SXM 310.1 47 44 3.40 P 0 45.34 45.52
NCM 328.6 354 44 5.20 PC0 47.14 47.84

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z E SE N NE SW
AVE. OF END POINTS 0.03 0.06 0.07 0.08 0.08 0.12 0.13

NUMBER 8
RMS MIN DRMS AVE DRMS QUALITY D
0.17 -0.05 0.08

83/11/ 3 15/47 BEGIN-----BEGIN-----83/11/ 3 15/47

HORIZONTAL SE = 1.33 SE = 2.46 VERTICAL SE = 1.59 QUALITY = A
AZ = 5. AZ = -85.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831103 1547 29.72 44W14.70 114W 2.16 5.70 4.12 18 7 184 1 0.23 2.5 1.6 0 CID 0.56 10 56 0.00 0.18 0 0.0 4 4.1 0.2
SE OF ORIG = 0.170 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TION-TCAL-DELA-EDLV= P-RES P-WT THIC SSEC SRMK TTDA TTCL S-RES S-WT AMX PR XMAG R FAP FRAG
NWSI 1.6 48 104 30.60 P00 0.88 1.09 -0.21 1.000 0.00-29.72 1.92-31.63 0.000
WSU3 5.1 7 137 31.15 P00 1.43 1.41 0.02 1.000 0.00-29.72 2.67-32.19 0.000
AMPI 6.8 159 129 31.54 P00 1.82 1.63 0.20 1.000 0.00-29.72 2.85-32.56 0.000
WSUI 8.3 111 123 31.80 P 0 2.08 1.85 0.24 1.000 0.00-29.72 3.23-32.95 0.000
NSUI 8.4 94 123 31.55 P00 1.83 1.86 -0.02 1.000 0.00-29.72 3.25-32.96 0.000
M-2 16.0 125 108 33.00 P00 3.28 3.10 0.17 -0.01 1.000 0.00-29.72 5.43-35.45 0.000
OSPI 16.6 100 107 32.85 P 0 3.13 3.20 -0.07 1.000 0.00-29.72 5.60-35.32 0.000
MBAI 20.0 130 104 33.51 P00 3.79 3.78 0.01 1.000 0.00-29.72 6.62-36.33 0.000
M-1 23.9 145 102 34.62 P00 4.90 4.46 0.14 1.000 0.00-29.72 7.81-38.05 0.000
DRPI 25.9 165 101 34.65 P00 4.93 4.82 0.12 1.000 0.00-29.72 8.43-38.15 0.000
LSGS 27.6 111 100 34.57 P00 4.85 5.12 -0.26 1.000 0.00-29.72 8.96-38.67 0.000
ORCI 29.2 183 100 35.00 P00 5.28 5.41 -0.12 1.000 0.00-29.72 9.46-39.18 0.000
LCRI 32.3 134 65 35.28 P00 5.56 5.92 -0.36 1.000 0.00-29.72 10.37-40.08 0.000
MDCI 54.5 123 65 38.79 P00 9.07 9.53 -0.46 1.000 0.00-29.72 16.69-46.40 0.000
MPI 95.8 128 65 46.34 P00 16.62 16.23 0.26 1.000 0.00-29.72 32.43-62.15 0.000
MLPM 99.9 53 65 48.47 P00 16.75 16.90 -0.15 1.000 0.00-29.72 29.58-59.30 0.000
JGI 110.0 99 65 48.51 P00 18.79 18.53 0.27 1.000 0.00-29.72 34.50-64.22 0.000
GLCM 117.7 53 55 49.70 P00 19.98 19.72 0.27 1.000 0.00-29.72 34.50-64.22 0.000
CIA 128.6 137 55 51.87 P00 22.15 21.32 0.8300-000 67.75 38.03 37.31 0.72 0.000
GMI 160.5 100 55 56.43 P 0 26.71 26.01 0.7000-000 0.00-29.72 45.52-75.24 0.000
TMI 199.9 121 44 1.83 P00 32.11 31.77 0.3400-000 0.00 30.28 55.60-25.32 0.000
LRM 215.3 35 44 3.00 P00 33.28 33.70 -0.4200-000 0.00 30.28 58.91-28.69 0.000
RUT 228.2 31 44 4.60 P 0 34.88 35.31 -0.4300-000 34.80 65.08 61.79 3.29 0.000
IMW 251.0 99 44 9.30 P 0 39.58 38.16 1.4200-000 0.00 30.28 66.78-36.50 0.000
NPI 263.7 152 44 11.80 P 0 42.00 39.75 2.3300-000 0.00 30.28 69.56-39.28 0.000
MSD 287.3 1 44 11.60 P 0 41.88 42.71 -0.8200-000 0.00 30.28 74.74-44.45 0.000
MLI 291.4 148 44 15.63 P 0 45.91 43.22 2.7000-000 0.00 30.28 75.63-45.34 0.000
SXM 306.9 46 44 14.70 P 0 44.98 45.15 -0.1700-000 0.00 30.28 79.01-48.73 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SW NW SE NE N
AVE. OF END POINTS 0.34 0.42 0.42 0.45 0.51 0.57 0.68

NUMBER RMS MIN DRMS AVE DRMS QUALITY
19 0.23 0.20 0.51 8

83/11/ 3 18/41 -----BEGIN-----BEGIN-----83/11/ 3 18/41

HORIZONTAL SE = 0.41 SE = 0.54 VERTICAL
AZ = -20. AZ = -110. SE = 1.30 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
931103 1841 24.67 44N 4.56 113W54.52 8.53 2.05 16 13 72 1 0.08 0.5 1.3 A AIA 0.11 10 21 0.00 0.07 0 0.0 0.0 14 2.0 0.3
SE OF ORIG = 0.045 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR=0+TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
BRPI 7.2 209 135 26.71IPD 2.04 2.00 0.04 1.039 200 23 1.92 200 26 2.02
MBRI 7.8 41 132 26.77IP 2.10 2.07 0.03 1.039 200 26 2.02 200 28 2.12
B16 12.9 343 115 27.38IPC 2.71 2.75 -0.04 1.039 29.49 4.82 4.81 0.01 0.727 200 24 2.02
B4 14.2 20 112 27.56IPC 2.89 2.96 -0.07 1.039 29.73 5.06 5.18 -0.12 0.727 200 47 2.62
B12 16.3 228 108 27.97IPD 3.30 3.27 0.03 1.039 30.51 5.84 6.17 -0.33 0.000 200 19 1.82
LGS 17.9 61 105 28.26IPD 3.59 3.53 0.06 1.039 31.45 6.78 7.10 -0.32 0.000 200 24 2.02
NSUI 18.2 354 104 28.25EPC 3.58 3.58 0.00 1.039 32.90 8.23 8.42 -0.19 0.000 200 50 2.72
B5 21.3 111 101 28.81IPD 4.14 4.06 0.08 1.039 33.64 8.97 9.68 -0.71 0.000 200 11 1.32
NWSI 21.8 336 100 28.94IP 4.27 4.14 0.13 1.039 37.36 12.69 11.86 0.83 0.000 200 17 1.72
BSU3 25.7 338 97 29.50EP 4.83 4.77 0.07 1.039 32.90 8.23 8.42 -0.19 0.000 200 27 2.12
B15 26.0 296 97 29.38EPC 4.71 4.81 -0.10 1.039 33.64 8.97 9.68 -0.71 0.000 200 18 1.82
B17 29.5 326 96 29.93IPD 5.26 5.38 -0.12 1.039 37.36 12.69 11.86 0.83 0.000 200 28 2.22
B9 30.4 137 95 30.06IPC 5.39 5.53 -0.14 1.039 37.36 12.69 11.86 0.83 0.000 200 28 2.22
B1 38.1 342 94 31.55IPC 6.88 6.78 0.10 1.039 37.36 12.69 11.86 0.83 0.000 200 28 2.22

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE SW NW N Z NE E
AVE. OF END POINTS 0.09 0.14 0.15 0.17 0.17 0.19 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.08 0.05 0.16 0

-----END-----END-----END-----END-----

83/11/ 3 19/56 -----BEGIN-----BEGIN-----83/11/ 3 19/56

HORIZONTAL SE = 1.64 SE = 2.18 VERTICAL SE = 2.54
AZ = -3. AZ = -93. QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR MM AVXM SDXM MF AVFM SOFM
831103 1956 56.71 44N12.81 114W 0.64 7.17 3.40 13 7 162 1 0.21 2.2 2.5 C DIC 0.06 10 32 0.00 0.17 0 0.0 0.0 4 3.4 0.2
SE OF ORIG = 0.149 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK+TCOR=0-TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
NM51 4.7 350 142 58.09 P00 1.38 1.57 -0.19 1.000 0.00-56.71 2.74-59.45 0.000
NSUI 5.7 85 135 58.70 P 0 1.99 1.68 0.30 1.000 0.00-56.71 2.94-59.66 0.000
NSUI 6.9 66 129 58.63 P00 1.92 1.82 0.10 1.000 0.00-56.71 3.18-59.90 0.000
8SU3 8.7 351 121 58.95 PC0 2.24 2.05 0.18 1.000 0.00-56.71 3.59-60.31 0.000
M-2 12.5 117 106 59.50 P 0 2.79 2.62 0.17 0.00 1.000 0.00-56.71 4.58-61.59 0.000
JSP1 14.3 88 99 59.24 P 0 2.53 2.91 -0.38 1.000 0.00-56.71 5.08-61.80 0.000
LSCS 24.6 105 91 1.11 P 0 4.40 4.57 -0.18 1.000 0.00 3.29 8.00 -4.71 0.000
BRCI 25.9 188 91 1.26 PC0 4.55 4.78 -0.23 1.000 0.00 3.29 8.36 -5.08 0.000
MPI 92.0 127 90 12.38 PC0 15.67 15.52 0.14 1.000 23.38 26.67 27.17 -0.50 0.000
MLPM 100.5 51 90 13.50 PC0 16.79 16.90 -0.11 1.000 0.00 3.29 29.57-26.29 0.000
JGI 107.5 97 90 14.75 PC0 18.04 18.03 0.00 1.000 28.19 31.48 31.55 -0.08 0.000
BLCM 118.4 51 65 16.41 PC0 19.70 19.67 0.03 1.000 0.00 3.29 34.42-31.14 0.000
C18 124.7 136 65 17.65 P00 20.94 20.60 0.34 1.000 0.00 3.29 36.05-32.76 0.000
GBI 157.9 99 65 23.34 P 0 26.63 25.49 1.14M0.000 41.54 44.83 44.61 0.22 0.000
THI 196.3 121 65 27.80 P 0 31.09 31.13 -0.05D0.000 0.00 3.29 54.48-51.19 0.000
LRM 217.0 35 50 29.50 PC0 32.79 33.73 -0.94M0.000 0.00 3.29 59.03-55.74 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE Z ME E SW NW N
AVE. OF END POINTS -0.03 -0.01 0.00 0.03 0.03 0.06 0.07

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.21 -0.04 0.03 0

83/11/ 3 20/26 BEGIN-----BEGIN-----83/11/ 3 20/26

HORIZONTAL SE = 0.47 SE = 0.73 VERTICAL SE = 1.46
AZ = -32. AZ = -122. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831103 2026 53.84 44N 9.62 113W58.88 7.86 2.96 30 9 79 1 0.16 0.7 1.5 B B1A 0.12 10 63 0.00 0.12 0 0.0 0.0 8 3.0 0.4
SE OF ORIG = 0.048 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCDR-D-TTDB-TTICAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR KMAG R FMP FMAG
816 3.6 35 132 55.49IPD 1.65 1.57 0.08 1.047 59.19 5.35 2.74 2.60 0.000 58 2.7
45UI 7.2 28 132 55.90 P 0 2.06 1.93 0.12 1.047 0.00-53.84 3.38-57.22 0.000
M-2 8.8 88 125 56.05 PCO 2.29 2.24 -0.06 1.047 0.00-53.84 3.70-57.84 0.000
NSUI 9.6 24 122 56.13 PCO 2.21 2.22 0.05 1.047 0.00-53.84 3.92-57.76 0.000
N4SI 11.0 363 117 56.29 PCO 2.65 2.42 0.03 1.047 0.00-53.84 4.24-58.08 0.000
843 11.1 347 117 56.41IP 2.57 2.44 0.13 1.047 58.27 4.63 4.27 0.16 0.733 48 2.6
64 11.3 69 116 56.23IPC 2.39 2.47 -0.09 1.047 0.00-53.84 4.38-58.22 0.000
M4AI 11.4 108 115 56.42 PCO 2.58 2.50 0.07 1.047 0.00-53.84 4.94-58.78 0.000
OSPI 13.6 61 109 56.44 PCO 2.60 2.82 0.22 1.047 0.00-53.84 4.99-59.36 0.000
M-1 13.8 137 109 57.03 P00 3.19 2.85 0.03 1.047 0.00-53.84 5.32-59.16 0.000
45U3 15.0 345 106 56.55 PCO 2.71 3.04 -0.33 1.047 0.00-53.84 5.32-59.16 0.000
8RPI 15.8 172 104 57.17 P00 3.33 3.17 0.16 1.047 0.00-53.84 5.55-59.39 0.000
445 17.5 320 101 57.30IP 3.46 3.43 0.03 1.047 59.85 6.01 6.01 0.00 0.733
815 17.7 276 101 57.47IPC 3.63 3.46 0.17 1.047 60.07 6.23 6.05 0.18 0.000 38 2.4
817 18.5 325 99 57.44IPC 3.60 3.58 0.01 1.047 0.00-53.84 6.89-60.73 0.000
8RCI 20.6 196 97 57.46 PCO 3.62 3.94 -0.32 1.047 60.46 6.62 6.90 -0.29 0.733
844 20.7 354 97 0.00IP 4 -53.84 3.94 4.03 0.00 1.047 61.07 7.23 7.04 0.18 0.000
812 21.2 197 97 57.87IPD 4.03 4.03 0.00 1.047 0.00-53.84 7.11-60.96 0.000
LSGS 21.4 92 96 57.81 PCO 3.97 4.07 -0.10 1.047 66.26 10.42 8.95 1.46 0.000 50 2.7
81 27.5 368 94 58.84IPD 5.00 5.06 0.08 1.047 63.24 9.40 9.75 -0.36 0.000 96 3.3
811 27.9 150 94 59.04IPD 5.20 5.12 0.00 1.047 66.63 10.79 12.74 -1.96 0.000 70 3.0
85 30.7 123 93 59.42IPC 5.58 5.57 7.12 7.28 -0.16 1.047 0.00 6.16 14.11 -7.96 0.000 82 3.3
99 41.3 140 92 60.96IPC 7.12 7.28 0.24 1.047 18.83 24.99 25.66 -0.68 0.000
MDCI 46.1 116 92 1.53 PC1 7.69 8.07 0.09 1.047 0.00 6.16 30.16-24.01 0.000
MPI 86.7 125 91 8.75 PCO 14.91 14.67 0.12 1.047 0.00 6.16 30.16-24.01 0.000
MLPM 102.6 48 91 11.20 PCO 17.36 17.24 0.09 1.047 0.00 6.16 30.16-24.01 0.000
JGI 104.7 94 91 11.52 PCO 17.68 17.59 0.55M0.000 29.35 35.51 34.45 1.06 0.000 111 3.7
C18 118.8 135 65 14.08 PCO 20.24 19.69 0.26 1.047 0.00 6.16 34.86-28.70 0.000
8LCM 120.4 49 65 14.02 PCO 20.18 19.92 0.00 6.16 34.86-28.70 0.000
G8I 154.8 97 65 18.90 P 0 25.06 24.98 0.00 6.16 43.71-37.55 0.000
TMI 191.5 120 65 24.04 P 0 30.20 30.38 -0.18M0.000 0.00 6.16 53.17-47.01 0.000
LRM 220.6 33 50 27.60 P 0 33.76 34.11 -0.35M0.000 0.00 6.16 59.69-53.54 0.000
IMW 245.8 97 50 32.53 P 0 38.69 37.25 1.43M0.000 0.00 6.16 65.20-59.04 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SE NW NE Z E SW
AVE. OF END POINTS 0.02 0.07 0.10 0.11 0.12 0.14 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.16 0.00 0.10 D

-----END-----END-----END-----END-----

83/11/ 3 21/40 -----BEGIN----- 83/11/ 3 21/40 -----BEGIN-----

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SUD ADJ IN NR AVR AAR NM AVIM SORM NF AVEM SDFM
831103 2140 38.55 44N15.41 114W 3.06 8.29 2.27 14 7 68 1 0.06 0.4 0.6 A AIA 0.65 10 20 0.00 0.05 0 0.0 0.0 6 2.3 0.1
SE OF ORIG = 0.035 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)

STN	DIST	AZM	AIM	PSEC	PRMK	TCOR	D-TTDB	TTICAL	DELAY	EDLY	P-RES	P-WT	TMIC	SSEC	SRMK	TTDB	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAI
843	3.2	88	157	40.181PD	1.63	1.60	0.03	1.069	0.00	1.069	0.00	1.069	41.35	2.80	2.80	0.01	0.748	701	7						
845	6.2	296	138	40.42EPD	1.87	1.87	0.00	1.069	0.00	1.069	0.00	1.069	41.88	3.33	3.27	0.06	0.748	701	7						
817	6.7	312	136	40.441PD	1.89	1.92	-0.02	1.069	-0.02	1.069	-0.02	1.069	42.69	4.14	4.18	-0.04	0.748	701	7						
844	10.4	20	121	40.891PD	2.34	2.39	-0.05	1.069	-0.05	1.069	-0.05	1.069	42.39	3.84	4.29	-0.45	0.000	701	31	2.27					
916	10.9	135	120	40.951PD	2.40	2.45	-0.05	1.069	-0.05	1.069	-0.05	1.069	44.37	5.82	5.67	0.15	0.000	701	30	2.27					
815	14.8	234	109	41.571PC	3.02	3.03	-0.01	1.069	-0.01	1.069	-0.01	1.069	44.24	5.69	6.04	-0.35	0.000	701	34	2.37					
81	16.2	359	106	41.841PC	3.29	3.24	0.05	1.069	0.05	1.069	0.05	1.069	51.16	12.61	12.39	0.22	0.000	701	31	2.27					
84	17.5	112	104	41.951PC	3.40	3.45	-0.05	1.069	-0.05	1.069	-0.05	1.069	54.31	15.76	16.11	-0.35	0.000	701	31	2.37					
812	30.9	181	94	44.051PD	5.50	5.61	-0.10	1.069	-0.10	1.069	-0.10	1.069													
811	40.0	151	93	46.02EP 4	7.47	7.08	0.39	0.000	0.39	0.000	0.39	0.000													
85	41.7	131	93	45.981PD	7.43	7.36	0.08	1.069	0.08	1.069	0.08	1.069													
89	53.1	143	92	47.86EP	9.31	9.21	0.10	1.069	0.10	1.069	0.10	1.069													

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 NE NW E SW N SE
AVE. OF END POINTS 0.55 0.68 0.75 0.84 0.85 1.03 1.11

NUMBER	RMS	MIN	DRMS	AVE	ORMS	QUALITY	A
14	0.06	0.54	0.86				

HORIZONTAL
SE = 0.52
AZ = -30.
VERTICAL
SE = 1.01
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831103 22 9 24.65 44N 6.20 113W57.19 10.38 3.15 30 8 81 1 0.16 0.8 1.0 8 BIA 1.27 10 64 0.00 0.12 0 0.0 0.0 4 3.1 0.2
SE OF ORIG = 0.054 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --																						
STN	DIST	AZM	AIM	PSEC	PRMK+TCOR	-O-TT08-TTICAL	-DELT-EDLY=	P-RES	P-WT	THIC	SSEC	SRMK	TT08	TTICAL	S-SRES	S-WT	AMX	PR	KMAG	R	FMP	FMAG
937	5.6	141	149	26.761P00		2.11	2.08	0.03	1.020		28.33	3.68	3.64	0.04	0.714					201		2
d42	6.7	347	144	0.00 P 4		-24.65	2.19	-26.84	0.000		28.54	3.89	3.82	0.06	0.714					201		2
M-1	8.1	118	138	27.13 PC0		2.48	2.32	-0.15	1.020		0.00-24.65	4.07	29.25	0.000						201		2
MBAL	9.1	72	135	27.21 PC0		2.56	2.44	0.12	1.020		0.00-24.65	4.26	28.92	0.000						201		2
316	9.3	359	134	27.191P0		2.54	2.46	0.08	1.020		0.00-24.65	4.30	28.96	0.000						201		2
BRPI	9.3	179	134	27.17 P00		2.52	2.46	0.06	1.020		0.00-24.65	4.30	28.96	0.000						201		2
M-2	9.3	45	134	27.25 PC0		2.60	2.46	-0.03	1.020		0.00-24.65	4.30	29.26	0.000						201		2
ANPI	10.3	336	131	27.25 P 0		2.60	2.58	0.02	1.020		0.00-24.65	4.51	29.16	0.000						201		2
MSUI	12.8	5	124	27.80 P 0		3.15	2.90	0.25	1.020		0.00-24.65	5.07	29.72	0.000						201		2
d4	13.3	39	122	27.621PC		2.97	2.97	0.00	1.020		0.00-24.65	5.65	30.30	0.000						201		2
MSUI	15.2	7	118	27.83 P 0		3.18	3.23	-0.05	1.020		0.00-24.65	5.76	30.42	0.000						201		2
ARCI	15.7	211	117	28.16 PC0		3.51	3.29	0.21	1.020		0.00-24.65	5.76	30.42	0.000						201		2
OSPI	16.1	37	117	28.04 PC0		3.59	3.35	0.03	1.020		0.00-24.65	5.87	30.52	0.000						201		2
d12	16.3	212	116	27.971PC		3.32	3.38	-0.07	1.020		0.00-24.65	5.87	30.52	0.000						201		2
MMSI	17.7	342	114	28.09 P00		3.44	3.59	-0.16	1.020		0.00-24.65	6.29	30.94	0.000						201		2
843	17.8	345	114	28.301P00		3.65	3.61	0.04	1.020		30.90	6.25	6.31	-0.07	0.000					201		2
LSGS	20.0	73	110	28.80 PC0		4.15	3.95	0.20	1.020		0.00-24.65	6.90	31.56	0.000						201		2
d11	21.3	147	108	28.761PC		4.11	4.15	-0.04	1.020											201		2
d15	21.5	293	108	28.811P0		4.16	4.17	-0.02	1.020											201		2
8503	21.7	344	108	28.75 P 0		4.10	4.20	-0.10	1.020		0.00-24.65	7.35	32.00	0.000						201		2
845	23.9	326	106	29.111P00		4.46	4.54	-0.09	1.020		32.75	8.10	7.95	0.15	0.000					201		2
d17	25.0	329	105	29.241P0		4.59	4.71	-0.13	1.020											201		2
d5	25.7	114	104	29.401PC		4.75	4.82	-0.07	1.020		32.46	7.81	8.43	-0.63	0.000					201		2
d38	25.7	114	104	0.00 P 4		-24.65	4.82	-29.47	0.000		32.47	7.82	8.43	-0.62	0.000					201		2
844	27.2	351	103	0.00 P 4		-24.65	5.06	-29.71	0.000		33.21	8.56	8.85	-0.29	0.000					201		2
d1	34.2	346	99	30.851PC		6.20	6.18	0.01	1.020		35.55	10.90	10.82	0.07	0.000					201		2
89	35.1	136	99	30.651PC		6.00	6.32	-0.32	1.020		34.40	9.75	11.06	-1.31	0.000					201		2
MDCI	41.7	109	97	31.57 PC0		6.92	7.38	-0.47	1.020		0.00-24.65	12.92	37.58	0.000						201		2
MPI	81.3	122	93	38.66 P00		14.01	13.80	0.20	1.020		46.97	22.32	24.15	-1.84	0.000					50	2.92	
JGI	102.2	91	65	41.78 P 0		17.13	17.07	0.05	1.020		54.12	29.47	29.88	-0.41	0.000					201	55	3.02
CIB	112.8	134	65	43.61 P 0		18.96	18.62	0.33	1.020		57.01	32.36	32.59	-0.24	0.000					201	62	3.22
GBI	152.1	95	65	49.66 P 0		25.01	24.42	0.5900	0.000		66.83	42.18	42.73	-0.55	0.000					201	74	3.52
TMI	186.5	118	65	54.05 P 0		29.40	29.46	-0.0700	0.000		76.22	51.57	51.56	0.00	0.000					201		2
LRM	224.8	32	50	58.80 P 0		34.15	34.37	-0.2200	0.000		0.00-24.65	60.15	84.80	0.000						201		2
IMW	242.8	95	50	3.13 P 0		38.48	36.63	1.8500	0.000		0.00	35.35	64.10	28.76	0.000					201		2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE E NW N SE
AVE. OF END POINTS 0.42 0.57 0.58 0.71 0.77 0.86 0.94

NUMBER RMS MIN DRMS AVE DRMS QUALITY
30 0.16 0.49 0.74 A

83/11/ 4 2/55 BEGIN BEGIN BEGIN 83/11/ 4 2/55

HORIZONTAL SE = 0.83 SE = 1.21 VERTICAL SE = 2.00 QUALITY = A
AZ = 37. AZ = -53.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQO ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SOFM
831104 255 34.97 44N12.99 114W 2.42 10.58 13 8 184 1 0.08 1.2 2.0 C 81D 0.12 10 26 0.00 0.04 0 0.0 0 0.0 0.0 0.0
SE DF ORIG = 0.139 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STM DIST AZM AIN PSEC PRMK+TCOR-DATTOR-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTOB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
ARPI 4.2 139 157 36.90 P 0 1.93 2.00 -0.08 1.130 0.00-34.97 3.51-38.48 0.000
MUSI 4.5 20 155 36.99 PD0 2.02 2.03 -0.01 1.130 0.00-34.97 3.55-38.52 0.000
MSUI 8.1 89 139 37.30 P 0 2.33 2.35 -0.02 1.130 0.00-34.97 4.11-39.08 0.000
MSU3 8.3 7 138 37.35 P 0 2.38 2.37 0.01 1.130 0.00-34.97 4.15-39.12 0.000
MSUI 9.0 74 136 37.52 PC0 2.55 2.45 0.10 1.130 0.00-34.97 4.29-39.26 0.000
M-2 14.8 114 120 38.30 P 0 3.33 3.18 0.17 -0.02 1.130 0.00-34.97 5.57-40.84 0.000
OSPI 16.7 89 116 38.39 P 0 3.42 3.45 -0.03 1.130 34.89 4.92 6.04 -1.12 0.000
MBAI 18.4 122 113 38.97 P-2 4.00 3.71 0.29 0.283 0.00-34.97 6.49-41.46 0.000
M-1 21.6 139 109 39.56 PC0 4.57 4.20 0.30 0.07 1.130 0.00-34.97 7.35-42.85 0.000
BRPI 23.0 162 107 39.58 PC0 4.41 4.41 0.00 1.130 42.38 7.41 7.72 -0.51 0.000
BRCI 26.0 182 105 39.86 PC0 4.89 4.88 0.01 1.130 0.00-34.97 8.54-43.51 0.000
LSGS 27.0 105 104 39.99 PD0 5.02 5.03 -0.01 1.130 0.00-34.97 8.80-43.77 0.000
MUCI 53.2 119 95 43.88 PD2 8.91 9.24 -0.33 0.283 0.00-34.97 16.17-51.15 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW NE SE E Z N
AVE. OF END POINTS 0.14 0.15 0.17 0.20 0.20 0.22 0.24

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.08 0.09 0.19 D

END END END END END END

83/11/ 4 6/ 9 BEGIN-----BEGIN-----83/11/ 4 4/ 9

HORIZONTAL SE = 0.94 VERTICAL SE = 1.26
AZ = -10. AZ = -100. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR NM AVXM SDXM NF AVFM SOFM
831104 4 9 14.68 44N15.37 114W 4.85 4.72 2.39 16 12 103 1 0.15 0.9 1.3 8 818 0.06 10 23 0.00 0.12 0 0.0 0.0 8 2.4 0.2
SE OF DRIG = 0.067 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D+TDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
d17 5.2 331 130 16.001PD 1.32 1.30 0.02 1.060 17.31 2.63 2.36 0.27 0.742 204 29 2.12
343 5.5 88 129 16.171P 1.49 1.35 0.14 1.060 18.57 3.89 4.01 -0.12 0.742 204 2
844 11.5 31 110 16.911P 2.23 2.29 -0.06 1.060 18.73 4.05 4.42 -0.37 0.000 204 35 2.32
816 12.6 127 108 17.111PD 2.43 2.48 -0.05 1.060 20.15 5.47 5.46 0.01 0.000 204 36 2.32
815 12.9 228 108 17.361PC 2.66 2.53 0.13 1.060 21.67 6.99 6.45 0.53 0.000 204 43 2.52
81 16.4 7 104 17.721PC 3.04 3.12 -0.16 1.060 22.68 7.97 8.21 -0.24 0.742 204 52 2.72
84 19.7 110 102 18.21EPD 3.53 3.69 -0.08 1.060 23.71 9.03 9.93 -0.90 0.000 204 29 2.22
837 25.3 147 99 19.161P 4.68 4.69 -0.01 1.060 27.52 12.84 13.68 -0.84 0.000 204 2
812 30.9 177 97 20.161PC 5.48 5.87 -0.19 1.060 59.90 45.22 15.97 29.25 0.000 204 2
911 41.1 148 65 22.141PC 7.46 7.44 0.21 1.060 31.24 16.56 16.82 -0.26 0.000 204 38 2.52
85 43.5 129 65 22.71EP 8.03 7.91 -0.12 1.060
86 51.6 129 65 23.69EP 9.01 9.13
89 54.5 141 65 24.50EP 9.82 9.01

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW Z N NE E SW
AVE. OF END POINTS 0.03 0.05 0.09 0.10 0.12 0.13 0.14
NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.15 -0.01 0.10 0

83/11/ 4 6/31 BEGIN-----BEGIN-----83/11/ 4 6/31

HORIZONTAL SE = 0.41 SE = 0.89 VERTICAL SE = 0.96
AZ = -12. AZ = -102. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM NF AVFM SDFM
831104 631 32.80 44M12.15 114W 1.53 8.58 19 6 173 1 0.09 0.9 1.0 8 AIC 0.12 10 32 0.00 0.08 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.064 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR=TTDB-TTCAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XMAG R FMP FMAG
NWSI 5.8 4 142 36.69 P00 1.89 1.86 0.03 1.127 0.00-32.80 3.26-36.06 0.000
842 6.1 136 140 36.68 P00 1.88 1.89 -0.01 1.127 35.99 3.19 3.31 -0.12 0.789
843 6.3 10 140 36.82 P00 2.02 1.91 0.11 1.127 36.24 3.44 3.34 0.10 0.789
WSUI 7.1 76 135 36.70 P00 1.90 2.00 -0.10 1.127 0.00-32.80 3.50-36.30 0.000
NSUI 8.5 61 130 36.05 P00 2.25 2.17 0.09 1.127 0.00-32.80 3.79-36.59 0.000
8SUI 9.8 359 125 35.05 P 0 2.25 2.32 -0.07 1.127 0.00-32.80 4.06-36.86 0.000
M-2 13.1 110 115 35.80 P00 3.00 2.78 0.05 1.127 0.00-32.80 4.86-37.96 0.000
DSPI 15.6 83 109 36.03 P00 3.23 3.17 0.06 1.127 37.06 4.26 5.54 -1.28 0.000
844 15.9 5 109 0.00 P 4 -32.80 3.22 38.23 5.43 5.64 -0.21 0.789
MBAI 16.6 119 107 36.21 P00 3.41 3.31 0.10 1.127 0.00-32.80 5.80-38.59 0.000
837 17.9 149 105 36.38 P00 3.58 3.52 0.06 1.127 38.90 6.10 6.15 -0.05 0.789
M-1 19.7 139 103 36.75 P00 3.95 3.80 0.15 1.127 0.00-32.80 6.66-39.98 0.000
8RPI 21.1 164 101 36.94 P00 4.14 4.04 -0.10 1.127 0.00-32.80 7.07-39.87 0.000
8RCI 24.5 185 98 37.34 P+0 4.54 4.58 -0.04 1.127 41.66 8.86 8.01 0.85 0.000
LSGS 25.5 102 98 37.48 P 0 4.68 4.73 -0.05 1.127 0.00-32.80 8.28-41.07 0.000
MDCI 51.4 119 92 41.77 P+3 8.97 8.93 0.04 0.070 0.00-32.80 15.63-48.43 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E N SW SE NE Z
AVE. OF END POINTS 0.11 0.12 0.14 0.15 0.16 0.18 0.19

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.09 0.07 0.15 D

HORIZONTAL										VERTICAL									
SE = 0.48 AZ = -16.										SE = 1.05 QUALITY = A									
DATE										DATE									
ORIGIN										ORIGIN									
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SE OF ORIG = 0.055										SE OF ORIG = 0.055									
6 ITERATIONS TOTAL										6 ITERATIONS TOTAL									
(- STATION DATA -)										(- STATION DATA -)									
P-WAVE TRAVEL-TIME DATA AND DELAYS										P-WAVE TRAVEL-TIME DATA AND DELAYS									
P-RES										P-RES									
P-WT										P-WT									
THIC										THIC									
SSEC										SSEC									
SRMK										SRMK									
TTOTB										TTOTB									
TTCAL										TTCAL									
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SE = 0.48 AZ = -16.										SE = 1.05 QUALITY = A									
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QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z SW SE NE E N

83/11/ 4 8/ 7 BEGIN-----BEGIN-----83/11/ 4 8/ 7

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
231104 8 7 48.67 44N 8.70 113W55.71 6.18 2.72 27 7 70 1 0.21 1.0 1.2 8 81A 0.61 10 61 0.00 0.15 0 0.0 0.0 11 2.7 0.5
SE DF ORIG = 0.055 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-DTTOT-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
M-2 5.0 66 140 50.30 P00 1.63 1.46 0.17 0.00 1.011 0.00-48.67 2.55-51.53 0.000 706 7
M-1 5.1 335 139 50.18IPD 1.51 1.48 0.03 1.011 0.00-48.67 2.98-51.65 0.000 706 7
M8AI 6.9 105 131 50.45 PC0 1.78 1.70 0.00 1.011 0.00-48.67 3.20-51.88 0.000 706 7
AMPI 7.8 308 127 50.50 P 0 1.83 1.83 0.00 1.011 0.00-48.67 3.28-51.96 0.000 706 7
MSUI 8.2 354 126 50.70 P00 2.03 1.87 0.15 1.011 53.75 5.08 3.39 1.69 0.000 706 42 2.47
84 8.6 48 124 50.61IPD 1.94 1.93 0.00 1.011 0.00-48.67 3.72-52.92 0.000 706 7
M-1 9.9 148 121 51.00 P00 2.33 2.13 0.30 -0.10 1.011 0.00-48.67 3.88-52.56 0.000 706 7
MSUI 10.5 359 119 50.92 P00 2.25 2.22 0.03 1.011 0.00-48.67 4.09-52.77 0.000 706 7
OSPI 11.3 43 117 51.04 P00 2.37 2.34 0.03 1.011 0.00-48.67 4.91-53.59 0.000 706 7
DRPI 14.1 188 112 51.47 P00 2.80 2.81 -0.01 1.011 0.00-48.67 4.97-53.64 0.000 706 7
MNSI 14.3 329 112 51.47 P00 2.80 2.84 -0.04 1.011 0.00-48.67 5.84-54.52 0.000 706 7
LSGS 17.2 86 108 51.85 P 0 3.18 3.24 -0.16 1.011 0.00-48.67 6.09-54.77 0.000 706 7
BSU3 18.1 334 107 52.15 P 0 3.48 3.48 -0.01 1.011 0.00-48.67 6.87-55.54 0.000 706 7
BRCI 20.7 209 105 52.56 P 0 3.89 3.93 -0.04 1.011 55.07 6.40 7.30 -0.90 0.000 706 32 2.37
812 21.3 210 105 52.76EPD 4.09 4.03 0.05 1.011 55.83 7.16 7.40 -0.25 0.000 706 30 2.27
815 22.1 280 104 53.07EPD 4.40 4.17 0.22 1.011 56.30 7.63 8.03 -0.41 0.000 706 40 2.57
817 22.4 319 104 52.73EP 4.06 4.23 -0.17 1.011 57.46 8.79 8.57 0.21 0.708 706 40 2.57
311 24.5 157 103 53.19EP 4.52 4.59 -0.08 1.011 58.60 9.93 10.89 -0.97 0.000 706 25 2.17
85 26.3 125 102 53.42IPD 4.75 4.90 -0.15 1.011 59.74 11.07 11.74 -0.67 0.000 706 50 2.77
81 30.3 341 65 54.06EP 5.39 5.57 -0.19 1.011 60.11 11.44 12.94 -1.51 0.000 706 69 3.17
86 34.4 125 65 54.63IPC 5.96 6.23 -0.27 1.011 11.56 22.89 24.51 -1.62 0.000 706 68 3.27
89 37.3 144 65 55.19EP 6.52 6.71 -0.19 1.011 18.45 29.78 29.65 0.12 0.000 706 80 3.47
MDCI 41.6 116 65 55.53 P00 6.86 7.40 -0.54 1.011 23.34 34.67 33.62 1.04 0.000 706 81 3.57
MPI 82.3 126 65 2.96 P00 14.29 14.00 0.28 1.011 0.00 11.33 42.82-31.50 0.000 706 7
JCI 100.4 93 65 6.04 P 0 17.37 16.94 0.42 1.011 0.00 11.33 43.62-32.30 0.000 706 7
CIB 114.6 136 55 8.41 P00 19.74 19.21 0.52 1.011 41.41 52.74 52.25 0.49 0.000 706 7
GBI 150.4 97 55 13.76 P 0 25.09 24.67 0.61000.000 0.00 11.33 43.62-32.30 0.000 706 7
SNRM 153.5 45 55 14.70 PC0 26.03 24.93 1.1000.000 41.41 52.74 52.25 0.49 0.000 706 7
TMI 187.0 120 55 18.77 P00 30.10 29.85 -0.2400.000 0.00 11.33 59.86-48.53 0.000 706 7
LRM 219.8 32 44 22.80 PC0 34.13 34.20 -0.0800.000 0.00 11.33 66.43-55.11 0.000 706 7
NPI 249.9 153 44 28.52 P 0 39.85 37.96 1.8800.000 0.00 11.33 72.45-61.12 0.000 706 7
MLI 277.3 148 44 32.38 P 0 43.71 41.40 2.3100.000 0.00 11.33 72.45-61.12 0.000 706 7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 NE SW NW E N SE
AVE. OF END POINTS 0.25 0.53 0.58 0.78 0.86 0.91 1.01

NUMBER RMS MIN DRMS AVE DRMS QUALITY
27 0.21 0.44 0.75 8

-----END-----END-----END-----END-----

83/11/ 4 8/45 BEGIN-----BEGIN-----83/11/ 4 8/45

HORIZONTAL SE = 0.34 SE = 0.42 VERTICAL SE = 1.10
AZ = -86. AZ = 4. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ W SOD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831104 845 27.54 44N13.37 114W 3.34 8.58 2.58 12 13 100 1 0.05 0.4 1.1 8 A18 0.13 10 15 0.00 0.04 0 0.0 0.0 6 2.6 0.1
SE OF ORIG = 0.043 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYN DIST AZM AIN PSEC PMK+YCDR-D=TTDB-TTCAL-DELT-EDLY= P-RES P-WT 7MIC SSEC SRMK TDOB TTCAL S-RES S-WT AMX PR MMAG R FMP FMAG
816 9.0 116 128 29.77IPD 2.23 2.22 0.01 1.053 32.27 4.73 4.75 -0.02 0.737 207 40 2.42
817 9.4 331 126 29.82IPD 2.28 2.27 0.01 1.053 33.39 5.85 5.86 -0.01 0.737 207 49 2.62
815 12.6 287 116 30.30IPD 3.36 3.35 -0.01 1.053 40.07 12.53 11.53 1.00 0.000 207 55 2.72
84 16.8 100 107 30.88IPC 3.34 3.86 -0.02 1.053 40.95 13.41 14.58 -1.17 0.000 207 52 2.72
81 20.0 0 102 31.38IPC 4.96 4.99 -0.03 1.053 43.50 15.96 15.36 0.60 0.000 207 2
812 27.1 181 97 32.50IPC 6.31 6.59 -0.08 1.053 207 45 2.62
811 36.9 148 94 34.05EP 7.12 7.02 0.10 1.053 207 2
85 39.6 127 94 34.66IPC 8.26 8.33 -0.07 1.053 207 34 2.42
86 47.7 127 93 35.80IPC 8.86 8.78 0.08 1.053 207
89 50.4 140 92 36.40EPD

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NM SE ME E SW Z
AVE. OF END POINTS 0.13 0.13 0.16 0.17 0.18 0.20 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.05 0.06 0.17 D

xxx

xxx

xxx

83/11/ 4 9/ 4 BEGIN-----BEGIN-----83/11/ 4 9/ 4

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM NF AVFM SODM
931104 9 4 12.86 44M 8.52 113W55.28 6.59 3.17 28 6 69 1 0.20 0.9 1.0 8 81A 0.45 10 64 0.00 0.15 0 0.0 0.0 10 3.2 0.3
SE OF ORIG = 0.051 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(----- MAGNITUDE DATA ----)

STN	DIST	AZM	AIM	PSEC	PRMK	TCOR	D-TTOW	TTICAL	DELTA	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TT08	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMA6
M-2	4.6	60	144	14.50	P00		1.64	1.48	0.17		-0.01	1.022		0.00-12.86	2.59-15.75	0.000		208		208		208		208	2
542	4.7	299	144	14.681P			1.82	1.49			0.33	1.022		15.63	2.77	2.60	0.17	0.715		208		208		208	2
M816	5.7	332	138	14.371P0			1.51	1.60			-0.09	1.022								208		208		208	80 3.02
M841	6.3	103	135	14.60 PC0			1.74	1.67			0.07	1.022								208		208		208	2
84	8.4	44	127	14.811P0			1.95	1.95			-0.01	1.022								208		208		208	90 3.12
MSUI	8.6	351	126	15.10 P 0			2.24	1.98			0.26	1.022								208		208		208	2
837	8.7	174	126	14.77EPC			1.91	1.99			-0.09	1.022								208		208		208	2
M-1	9.3	150	124	15.25 P00			2.39	2.08	0.30		0.00	1.022								208		208		208	2
MSUI	10.8	356	120	15.11 P00			2.25	2.31			-0.07	1.022								208		208		208	2
DSPI	11.1	40	119	15.20 P00			2.34	2.36			-0.02	1.022								208		208		208	2
8RPI	13.8	190	114	15.68 P00			2.82	2.80			0.02	1.022								208		208		208	2
MSUI	14.8	328	112	15.45 P00			2.59	2.96			-0.38	1.022								208		208		208	2
LSGS	16.7	85	110	15.98 P 0			3.12	3.27			-0.16	1.022								208		208		208	2
8503	18.6	333	108	16.05 P 0			3.19	3.60			-0.41	1.022								208		208		208	2
8RCI	20.7	211	106	16.76 P-0			3.90	3.95			-0.05	1.022								208		208		208	2
812	21.3	212	106	16.861P0			4.00	4.05			-0.06	1.022								208		208		208	2
815	22.7	280	105	17.301P0			4.44	4.30			0.14	1.022								208		208		208	2
817	23.0	318	105	17.431P			4.57	4.36			0.21	1.022								208		208		208	52 2.72
811	24.0	158	65	17.351P			4.49	4.51			-0.02	1.022								208		208		208	90 3.22
85	25.6	125	65	17.611P0			4.75	4.77			-0.03	1.022								208		208		208	2
81	30.8	340	65	18.461PC			5.60	5.62			-0.03	1.022								208		208		208	74 3.02
86	33.7	125	65	18.801PC			5.94	6.09			-0.15	1.022								208		208		208	55 2.82
89	36.7	144	65	19.381P			6.52	6.58			-0.06	1.022								208		208		208	90 3.22
MDCI	40.9	116	65	19.84 P00			6.98	7.26			-0.28	1.022								208		208		208	2
MPI	81.6	126	65	27.12 P 0			14.26	13.87			0.39	1.022								208		208		208	2
JGI	99.8	93	65	30.14 P 0			17.28	16.82			0.46	1.022								208		208		208	90 3.42
C18	114.0	136	55	32.56 P 0			19.70	19.08			0.62M0-000									208		208		208	94 3.52
881	149.8	97	55	37.90 P 0			25.04	24.34			0.59M0-000									208		208		208	102 3.72
8NRH	153.3	45	55	38.90 PC0			26.04	24.86			1.17M0-000									208		208		208	2
YMI	186.3	120	55	42.89 P 0			30.03	29.72			0.31D0-000									208		208		208	2
LRM	219.8	32	44	47.10 PC0			34.24	34.15			0.09U0-000									208		208		208	2
IMW	240.7	96	44	51.69 P 0			38.83	36.77			2.06M0-000									208		208		208	2
NPI	249.3	153	44	52.73 P 0			39.87	37.84			2.03M0-000									208		208		208	2
MLI	276.8	148	44	56.55 P 0			43.69	41.27			2.41M0-000									208		208		208	2
MSD	298.6	360	44	56.40 P 0			43.54	44.01			-0.47U0-000									208		208		208	2
NCH	341.4	352	44	2.70 P 0			49.84	49.35			0.48U0-000									208		208		208	2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E N SE 2 SW NE
AVE. OF END POINTS 0.04 0.05 0.05 0.05 0.06 0.07 0.08 0.09

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.20 -0.03 0.07 0

83/11/ 4 9/16 BEGIN-----BEGIN-----83/11/ 4 9/16

HORIZONTAL SE = 0.42 SE = 0.54 VERTICAL SE = 1.15
AZ = -22. AZ = -112. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVKM SOXM NF AVFM SOFM
831104 916 9.50 44M 8.60 113W56.40 4.01 3.06 27 6 73 1 0.14 0.6 1.2 A AJA 0.25 10 58 0.00 0.11 0 0.0 0.0 1.5 3.1 0.4
SE OF ORIG = 0.042 7 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMA+TCOR-DSTTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRKX TTOR TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
842 3-4 309 138 10.48 P 0 0.98 0.98 0.06 1.028 0.01 1.028 11.22 1.72 1.71 0.01 0.000 65 2.8
816 5.0 346 127 10.75IP 1.25 1.19 0.06 1.028 0.00 -9.50 2.31-12.11 0.000 0.00 -9.50 2.31-12.11 0.000
M-2 5.9 68 122 11.15 P00 1.65 1.32 0.17 0.16 1.028 0.00 -9.50 2.83-12.33 0.000 0.00 -9.50 2.83-12.33 0.000
M8AI 7.8 102 115 11.46 P00 1.96 1.62 0.34 1.028 0.00 -9.50 2.98-12.48 0.000 0.00 -9.50 2.98-12.48 0.000
MSUI 8.3 1 113 11.15 P 0 1.65 1.71 -0.05 1.028 12.89 3.39 3.22 0.17 0.720 0.00 -9.50 3.39 3.22 0.17 0.720
337 9.1 165 111 11.42 P 0 1.92 1.84 0.08 1.028 15.81 6.11 3.30 2.81 0.000 0.00 -9.50 3.55-13.58 0.000 0.00 -9.50 3.55-13.58 0.000
84 9.4 51 111 11.34IPC 1.84 1.89 -0.04 1.028 0.00 -9.50 3.68-13.18 0.000 0.00 -9.50 3.68-13.18 0.000
M-1 10.2 143 109 11.60 P00 2.30 2.03 0.30 -0.02 0.578 0.00 -9.50 4.09-13.58 0.000 0.00 -9.50 4.09-13.58 0.000
MSUI 10.7 4 108 11.58 P+1 2.08 2.10 -0.14 1.028 0.00 -9.50 4.61-14.11 0.000 0.00 -9.50 4.61-14.11 0.000
DSPI 12.0 46 106 11.69 PC0 2.19 2.33 -0.15 1.028 0.00 -9.50 4.66-14.16 0.000 0.00 -9.50 4.66-14.16 0.000
88PI 13.8 184 104 11.98 P00 2.48 2.63 0.53M0.000 0.00 -9.50 5.87-15.36 0.000 0.00 -9.50 5.87-15.36 0.000
MSUI 14.0 332 104 12.69 P 0 3.19 2.66 -0.05 1.028 0.00 -9.50 5.97-15.46 0.000 0.00 -9.50 5.97-15.46 0.000
85U3 17.8 337 100 12.80 P 0 3.30 3.35 -0.13 1.028 0.00 -9.50 6.55-16.05 0.000 0.00 -9.50 6.55-16.05 0.000
LSG5 18.2 86 100 12.78 P00 3.28 3.41 0.02 1.028 16.06 6.56 6.74 -0.18 0.000 0.00 -9.50 6.74 -0.18 0.000
812 20.1 207 99 13.26 P00 3.76 3.74 0.01 1.028 0.03 1.028 0.03 1.028 61 2.8
815 20.7 208 99 13.36EPC 3.86 3.85 0.01 1.028 0.03 1.028 0.03 1.028 40 2.4
817 21.2 280 99 13.47EPC 3.97 3.95 0.03 1.028 0.15 1.028 0.15 1.028 60 2.8
811 22.0 321 98 13.43IPC 3.93 4.08 -0.01 1.028 0.01 1.028 0.01 1.028 115 3.4
85 24.7 155 97 14.05EPO 4.55 4.57 -0.01 1.028 0.11 1.028 0.11 1.028 65 2.9
85 26.9 124 97 14.35EPO 4.85 4.96 -0.11 1.028 0.13 1.028 0.13 1.028 44 2.6
338 26.9 124 97 14.33 P 0 4.83 4.96 0.20 1.028 59.33 50.43 12.04 38.39 0.000 0.00 -9.50 13.44-22.94 0.000
81 30.2 342 96 15.24EPO 5.74 5.54 -0.24 1.028 0.00 -9.50 24.98-34.47 0.000 0.00 -9.50 24.98-34.47 0.000
96 35.0 124 95 15.65EPC 6.15 6.40 -0.20 1.028 0.06 1.028 0.06 1.028 70 3.2
89 37.7 142 95 16.18EP 6.68 6.88 -0.60M0.000 0.00 -9.50 30.20-39.69 0.000 0.00 -9.50 30.20-39.69 0.000
MOCI 42.3 115 65 16.58 P-1 7.08 7.68 0.23 1.028 42.55 33.05 34.12 -1.07 0.000 42.55 33.05 34.12 -1.07 0.000
JGI 82.9 125 65 23.88 P 0 14.38 14.27 0.11 1.028 52.76 43.26 43.44 -0.18 0.000 52.76 43.26 43.44 -0.18 0.000
CIB 101.3 93 65 26.81 P 0 17.31 17.25 0.06 1.028 0.00 -9.50 52.82-62.31 0.000 0.00 -9.50 52.82-62.31 0.000
CIB 115.1 136 65 29.23 P00 19.73 19.50 0.3300.000 0.00 -9.50 60.48-69.98 0.000 0.00 -9.50 60.48-69.98 0.000
G81 151.3 97 55 34.65 PC0 25.15 24.82 -0.0500.000 0.00 -9.50 66.98-76.48 0.000 0.00 -9.50 66.98-76.48 0.000
TMI 187.7 120 55 39.63 P 0 30.13 30.18 0.4600.000 0.00 -9.50 66.98-76.48 0.000 0.00 -9.50 66.98-76.48 0.000
LRM 220.4 32 44 43.60 PC0 34.10 34.56 1.54M0.000 0.00 -9.50 66.98-76.48 0.000 0.00 -9.50 66.98-76.48 0.000
NPI 250.1 152 44 49.31 P 0 39.81 38.27 1.54M0.000 0.00 -9.50 66.98-76.48 0.000 0.00 -9.50 66.98-76.48 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE M Z NW E NE SW
AVE. OF END POINTS 0.02 0.06 0.10 0.10 0.12 0.12 0.19

NUMBER RMS MIN ORMS AVE ORMS QUALITY
11 0.14 -0.02 0.11 0

-----END-----END-----END-----


```

-----BEGIN-----BEGIN-----
83/11/ 4 13/43      83/11/ 4 13/43

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SE =	0.77	HORIZONTAL	SE =	1.26	VERTICAL	SE =	1.96
AZ =	-21.		AZ =	-111.		AZ =	-111.
							QUALITY = A

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DATE          ORIGIN      LAT      LONG      DEPTH      MAG NO D3 CAP M RRS      ERZ Q SQD AOJ IN NR      AVR      AAR NM      AVXM      SOXM      NF      AVFM      SDFM
03JUN104     13+3      0.95  44N11.56  11+M 2.40  10.14  2.82 28 7 79 1 0.21  1.3  2.0 8 81A  1.85 10 44  0.00  0.13  0  0.0  0  0  5  2.8  0.3
SE OF DEPT = 0.101
3 ITERATIONS TOTAL

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(- STATION DATA -)		P-WAVE TRAVEL-TIME DATA AND DELAYS				VARI				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA						
STN	DIST	AZM	AIN	PSEC	PRNK+TCOR-DATON-TTCAL-DELAY-EDLY=	P-RES	P-WT	THIC	SSEC	SRNK	TYOB	TTCAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
442	6.3	122	145	3.05IPO		-0.01	1.033		4.46	3.51	3.70	-0.19	0.723					210		2
816	6.8	95	143	3.05IPO		-0.02	1.033											210		2
NSUI	7.1	13	142	3.12 P 0		-0.01	1.033		0.00	-0.95	3.83	-4.77	0.000					210		2
MSUI	8.6	71	136	3.60 P 0		0.31	1.033		0.00	-0.95	4.10	-5.05	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		2
NSUI	10.1	59	131	3.43 PC0		-0.04	1.033		0.00	-0.95	4.42	-5.36	0.000					210		

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NE	E	SW	NW	SE	N
Ave. of end points	0.26	0.43	0.55	0.55	0.64	0.77	0.85

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
28	0.21	0.30	0.61			8

END
END
END

83/11/ 4 15/27 BEGIN-----BEGIN-----83/11/ 4 15/27

HORIZONTAL
SE = 0.39
AZ = -63.
VERTICAL
SE = 1.29
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM NF AVFM SOFM
831104 1527 36.66 44N12.60 114W 3.63 9.13 2.79 11 12 94 1 0.05 0.5 1.3 8 AIB 0.14 10 13 0.00 0.04 0 0.0 0.0 9 2.8 0.3
SE OF ORIG = 0.048
4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XHAG R FMP FMAG
016 8.8 107 131 38.90IPC 2.24 2.26 -0.02 1.028 0.00 1.028 213 50 2.62
017 10.5 337 125 39.13IPC 2.47 2.47 0.00 1.028 0.00 1.028 213 34 2.32
018 11.8 252 121 39.52IPC 2.66 2.64 0.02 1.028 0.02 1.028 213 41 2.52
019 17.0 95 110 40.14IPC 3.48 3.41 0.07 1.028 0.07 1.028 213 60 2.82
020 21.4 1 103 40.74IPC 4.08 4.10 -0.02 1.028 0.02 1.028 213 52 2.72
021 25.7 180 100 41.41IPC 4.75 4.78 -0.03 1.028 0.03 1.028 213 93 3.22
022 36.0 146 96 43.10IPC 6.44 6.43 0.01 1.028 0.01 1.028 213 54 2.82
023 39.1 125 95 43.69IPC 7.03 6.93 0.10 1.028 0.10 1.028 213 97 3.32
024 47.2 125 94 44.80IPC 8.14 8.25 -0.11 1.028 0.11 1.028 213 97 3.32
025 49.6 139 93 45.32IPC 8.66 8.65 0.01 1.028 0.01 1.028 213 60 2.92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW SE E Z N NE
AVE. OF END POINTS 0.07 0.08 0.15 0.16 0.19 0.19 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.05 0.00 0.15 D

83/11/ 4 15/44 BEGIN-----BEGIN-----83/11/ 4 15/44

HORIZONTAL
SE = 0.15
AZ = -47.
VERTICAL
SE = 0.51
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM NF AVFM SOFM
831104 1544 0.35 44N12.74 114W 2.12 8.41 2.59 9 14 101 1 0.02 0.2 0.5 8 AIB 0.09 10 12 0.00 0.02 0 0.0 0.0 8 2.6 0.3
SE OF ORIG = 0.016
4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XHAG R FMP FMAG
316 7.0 114 135 2.33IPC 1.98 1.97 0.01 1.000 0.01 1.000 214 30 2.22
317 11.3 327 119 2.83IPC 2.48 2.51 -0.04 1.000 0.04 1.000 214 2
318 13.8 254 112 3.26IPC 2.91 2.88 0.02 1.000 0.02 1.000 214 35 2.32
319 15.0 97 109 3.41IPC 3.06 3.07 -0.01 1.000 0.01 1.000 214 45 2.52
320 21.2 356 100 4.41IPC 4.06 4.04 0.02 1.000 0.02 1.000 214 38 2.42
321 26.0 184 97 5.15IPC 4.80 4.81 -0.01 1.000 0.01 1.000 214 79 3.12
322 37.6 127 93 7.03IPC 6.68 6.69 -0.02 1.000 0.02 1.000 214 76 3.12
323 45.7 127 93 8.37IPC 8.02 8.00 0.01 1.000 0.01 1.000 214 30 2.32
324 48.5 141 92 8.82EP 8.47 8.46 0.01 1.000 0.01 1.000 214 54 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW NW E NE Z N SE
AVE. OF END POINTS 0.12 0.12 0.13 0.18 0.26 0.32 0.33

93/11/ 4 20/ 6 BEGIN-----BEGIN-----83/11/ 4 20/ 6

HORIZONTAL
SE = 0.39
AZ = -54.
VERTICAL
SE = 1.41
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831104 20 6 44.64 44N10.13 113W51.35 7.09 2.37 8 25 125 1 0.04 1.0 1.4 8 A18 0.47 10 12 0.00 0.04 0 0.0 0.0 7 2.4 0.2
SE OF ORIG = 0.049 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-0-TT08-TT08-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TT08 TT08 S-RES S-WT AMX PR XHAG R FMP FMAH
84 3.1 10 153 46.061P 1.42 1.42 0.00 1.000
816 8.2 284 122 46.241P04 1.60 1.98 -0.38 0.000 715 42 2.47
85 23.7 139 91 49.091P 4.45 4.43 0.01 1.000 715 36 2.37
317 25.0 305 90 49.321P 4.68 4.64 0.04 1.000 715 27 2.17
811 25.5 172 90 49.441P 4.80 4.72 0.08 1.000 715 35 2.47
812 26.7 218 90 49.531P 4.89 4.92 -0.04 1.000 715 50 2.77
815 27.6 272 90 49.67EP 5.03 5.06 -0.03 1.000 715 34 2.37
81 30.4 329 90 50.631P 4 5.99 5.52 0.47 0.000 715 33 2.37
96 31.7 135 90 50.291P 5.65 5.72 -0.07 1.000 54.28 9.64 10.01 -0.37 0.000 715 7
89 36.5 133 90 51.17EP 6.53 6.52 0.01 1.000 55.67 11.03 11.40 -0.37 0.000 715 7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW N NW E SE
AVE. OF END POINTS 0.29 0.46 0.57 0.87 0.98 1.01 1.06

172

83/11/ 4 21/30 BEGIN-----BEGIN-----83/11/ 4 21/30

HORIZONTAL
SE = 0.46
AZ = -43.
VERTICAL
SE = 1.04
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831104 2130 11.88 44N 6.38 113W54.64 8.16 2.47 13 11 92 1 0.09 0.8 1.0 6 A18 0.06 10 17 0.00 0.07 0 0.0 0.0 7 2.5 0.2
SE OF ORIG = 0.046 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-0-TT08-TT08-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TT08 TT08 S-RES S-WT AMX PR XHAG R FMP FMAH
837 4.6 179 147 13.631P 1.75 1.69 0.06 1.048 216 38 2.42
816 9.6 338 123 14.151P 2.27 2.27 0.00 1.048 216 44 2.52
84 11.2 26 118 14.371P 2.49 2.48 0.01 1.048 216 2
851 14.9 121 108 14.961P 2.98 3.04 -0.05 1.048 216 2
812 18.6 220 101 15.501P 3.62 3.62 0.00 1.048 216 2
811 20.0 156 100 15.921P 4.04 3.84 0.20 1.048 216 54 2.72
85 22.8 119 97 16.281P 4.40 4.30 0.11 1.048 216 2
815 24.6 289 96 16.361P 4.48 4.58 -0.10 1.048 216 39 2.52
86 30.9 120 94 17.391P 5.51 5.60 -0.09 1.048 216 24 2.12
99 33.0 141 93 17.711P 5.83 5.95 -0.12 1.048 216 53 2.82
81 34.9 341 93 18.181P 6.30 6.25 0.05 1.048 216 37 2.42

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW N SE Z NE E
AVE. OF END POINTS 0.05 0.10 0.14 0.15 0.15 0.16 0.24

83/11/ 4 22/59 -----BEGIN-----BEGIN-----83/11/ 4 22/59

HORIZONTAL SE = 0.35 SE = 0.53 VERTICAL SE = 0.66
AZ = -34. AZ = -124. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831104 2259 37.71 44N 4.47 113W56.52 10.68 2.54 12 14 79 1 0.06 0.5 0.7 A A1A 0.82 10 21 0.00 0.05 0 0.0 0.0 5 2.5 0.4
SE OF ORIG = 0.037 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR-O=TTDB-TICAL-DELAY-EDLY= P-RES P-T THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
837 2.8 113 164 39.691P 1.98 1.95 0.03 1.026 41.07 3.36 3.40 -0.05 0.718 716 7
816 12.5 355 126 40.661P 2.95 2.88 0.07 1.026 42.67 4.96 5.04 -0.08 0.000 716 30 2.27
812 14.3 222 121 40.861P 3.15 3.12 0.02 1.026 43.27 5.56 5.76 -0.20 0.000 716 7
84 15.5 29 119 41.051PC 3.34 3.29 0.05 1.026 43.37 5.66 5.79 -0.13 0.000 716 7
850 15.6 29 119 40.941P 3.23 3.31 -0.08 1.026 45.13 7.42 7.92 -0.50 0.000 716 32 2.37
811 18.2 144 114 41.411P 3.70 3.68 0.02 1.026 42.69 4.98 8.84 -3.86M0.000 716 7
815 23.7 299 107 42.171P 4.46 4.53 -0.07 1.026 47.74 10.03 10.09 -0.06 0.000 716 27 2.27
85 23.7 108 107 42.291P 4.58 4.55 -0.05 1.026 45.52 7.81 10.26 -2.45 0.000 716 55 2.87
845 27.1 328 104 0.001P 4 -37.71 5.05 -42.76 0.000 50.07 12.36 11.77 0.59 0.000 716 90 3.27
86 31.6 113 101 43.371PC 5.66 5.77 -0.11 1.026
89 32.2 134 101 43.591PC 5.88 5.86 0.01 1.026
81 37.5 346 99 44.471P 6.76 6.72 0.03 1.026

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E SE NE N Z SW
AVE. OF END POINTS 0.10 0.13 0.14 0.16 0.18 0.19 0.23

NUMBER 6
RMS MIN DRMS AVE DRMS QUALITY
0.06 0.02 0.16 0

xx

xx

xx

83/11/ 4 23/29 BEGIN-----BEGIN-----83/11/ 4 23/29

SE = 0.88 HORIZONTAL SE = 0.99 VERTICAL
AZ = -73. AZ = 17. SE = 1.05 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AVXM SODM NF AVFM SDFM
831104 2329 49.49 44N14.94 114W 5.27 6.21 3.15 32 6 94 1 0.20 1.0 1.1 8 818 0.86 10 59 0.00 0.14 0 0.0 0.0 11 3.2 0.2
SE OF ORIG = 0.070 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK*TCOR=0=TT08-ITCAL-DELT-EDLV= P-RES P-WT TMIC SSEC SRMK TT08 ITCAL S-RES S-WT AMK PR X MAG R FMP F MAG
845 4.5 323 143 50.891P0 1.40 1.41 0.00 1.039 52.05 2.56 2.47 0.10 0.727 717 7
MWS1 5.4 83 138 51.208P0 1.51 1.51 0.00 1.039 0.00-49.49 2.65-52.13 0.000 717 7
943 6.2 81 134 51.208P0 1.71 1.61 0.10 1.039 52.05 2.56 2.82 -0.25 0.727 717 7
ASU3 6.6 45 132 51.60 PC0 2.11 1.67 0.44 1.039 0.00-49.49 2.92-52.41 0.000 717 7
815 12.0 229 116 51.961P0 2.47 2.47 0.00 1.039 0.00-49.49 4.44-53.92 0.000 717 80 3.07
WSUI 12.4 106 115 52.00 P 0 2.51 2.54 -0.02 1.039 53.99 4.50 4.47 0.03 0.727 717 7
344 12.5 31 115 51.861P0 2.37 2.55 -0.18 1.039 0.00-49.49 4.48-53.96 0.000 717 7
MSUI 12.5 95 115 52.09 PC0 2.60 2.56 0.05 1.039 0.00-49.49 4.48-53.96 0.000 717 84 3.17
816 12.6 123 115 52.071P0 2.58 2.58 0.01 1.039 -0.27 1.039 717 88 3.17
d1 17.3 9 108 52.571P0 3.08 3.35 -0.27 1.039 0.00-49.49 6.60-56.39 0.000 717 98 3.27
M-2 19.8 119 106 53.55 P00 4.06 3.77 0.17 -0.12 1.039 56.05 6.56 6.67 -0.10 0.727 717 7
84 20.0 107 106 53.198P0 3.70 3.81 -0.16 1.039 0.00-49.49 6.89-56.38 0.000 717 7
d50 20.0 107 106 53.141P 3.65 3.81 -0.12 1.039 0.00-49.49 7.74-57.22 0.000 717 7
DSPI 20.7 99 105 53.31 PC0 3.82 3.94 0.05 1.039 0.00-49.49 8.74-58.75 0.000 717 7
M8A1 23.5 124 103 53.96 PC0 4.47 4.42 0.12 1.039 57.75 8.26 8.99 -0.73 0.000 717 7
M-1 26.8 138 102 54.90 PC0 5.41 4.99 0.30 -0.13 1.039 58.25 8.76 9.57 -0.81 0.000 717 7
ARPI 27.7 157 65 54.50 P-0 5.01 5.14 -0.01 1.039 0.00-49.49 10.13-59.61 0.000 717 7
d12 30.1 176 65 54.75EP0 5.26 5.53 -0.26 1.039 0.00-49.49 11.26-60.74 0.000 717 7
LSG5 31.7 109 65 55.16 P 0 5.67 5.79 -0.11 1.039 0.00-49.49 17.69-67.18 0.000 717 68 3.27
LCRI 35.7 130 65 55.75 P 0 6.26 6.43 -0.17 1.039 0.00 10.51 29.35-18.83 0.000 717 66 3.27
911 40.8 147 65 56.83EP 7.34 7.26 0.08 1.039 0.00 10.51 33.49-22.98 0.000 717 73 3.47
d5 43.4 128 65 57.101P 7.61 7.69 -0.08 1.039 0.00 10.51 38.05-27.53 0.000 717 75 3.57
d6 51.5 128 65 58.60EP 9.11 9.00 0.11 1.039 0.00 10.51 46.50-35.99 0.000 717 7
d9 54.3 140 65 58.97EP0 9.48 9.46 -0.28 1.039 0.00 10.51 56.32-45.80 0.000 717 7
MDCI 58.3 121 65 59.31 PC0 9.82 10.11 0.03 1.039 0.00 10.51 59.31-48.79 0.000 717 7
MPI 99.3 127 65 6.94 P 0 17.45 16.77 0.68 1.039 0.00 10.51 74.56-64.04 0.000 717 7
JGI 114.1 99 55 8.86 PC0 19.37 19.14 0.24 1.039 0.00 10.51 83.51-72.99 0.000 717 7
C10 131.8 136 55 11.79 P 0 22.30 21.74 0.5600.000 0.00 10.51 83.51-72.99 0.000 717 7
G81 164.7 100 55 16.71 P 0 27.22 26.57 0.6500.000 0.00 10.51 83.51-72.99 0.000 717 7
TMI 203.7 121 44 22.09 P 0 32.60 32.18 -0.4200.000 0.00 10.51 83.51-72.99 0.000 717 7
LRM 217.3 36 44 22.70 P00 33.21 33.89 -2.6800.000 0.00 10.51 83.51-72.99 0.000 717 7
MSO 287.0 2 44 30.00 P 0 40.51 42.60 -2.0900.000 0.00 10.51 83.51-72.99 0.000 717 7
MCM 327.9 353 44 36.70 P00 47.21 47.72 -0.5000.000 0.00 10.51 83.51-72.99 0.000 717 7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW NE E SW SE N
AVE. OF END POINTS 0.33 0.49 0.52 0.62 0.64 0.77 0.77

NUMBER RMS MIN DRMS AVE DRMS QUALITY
33 0.20 0.30 0.63 B

-----END-----END-----END-----

83/11/ 4 -----23/36-----BEGIN-----BEGIN-----83/11/ 4 23/36

HORIZONTAL SE = 0.49 SE = 0.55 VERTICAL SE = 1.00 QUALITY = A
AZ = -56. AZ = 34.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SDFM
931104 2336 45.38 44N14.15 114W 4.32 8.12 2.69 16 11 84 1 0.09 0.5 1.0 A AIA 0.10 10 21 0.00 0.07 0 0.0 0.0 8 2.7 0.3
SE OF ORIG = 0.051 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMK>TCOR-O>TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
843 5.4 63 142 47.161PD 1.78 1.77 0.02 1.081 48.51 3.13 3.09 0.04 0.757 217 2
845 6.4 322 137 47.23EPD 1.85 1.87 -0.02 1.081 48.62 3.24 3.27 -0.03 0.757 217 2
816 10.8 120 119 47.781PD 2.40 2.42 -0.02 1.081 49.72 4.34 4.24 0.10 0.000 217 55 2.72
815 12.1 238 115 48.041PC 2.66 2.62 0.04 1.081 50.39 5.01 4.87 0.14 0.757 217 40 2.42
844 13.2 23 112 48.09EPC 2.71 2.78 -0.07 1.081 51.44 6.06 6.27 -0.21 0.000 217 2
84 18.4 104 101 48.921PC 3.54 3.58 -0.04 1.081 51.56 6.18 6.27 -0.09 0.757 217 56 2.72
850 18.4 103 101 48.86EPC 3.48 3.59 -0.11 1.081 51.16 5.78 6.33 -0.55 0.000 217 2
81 18.6 4 101 48.981PC 3.60 3.62 -0.02 1.081 53.98 8.60 9.15 -0.55 0.000 217 45 2.62
812 28.6 178 94 50.471PC 5.09 5.23 -0.14 1.081 0.20 1.081 217 85 3.12
811 38.9 147 93 52.47EP 7.09 6.89 0.01 1.081 0.11 1.081 217 45 2.62
85 41.5 128 92 52.721PC 7.34 7.33 0.11 1.081 217 30 2.32
86 49.6 127 92 54.13EP 8.75 8.64 0.41 0.000 217 64 3.02
89 52.4 140 92 54.87EP 4 9.49 9.08

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N SW E NW NE Z
AVE. OF END POINTS 0.06 0.09 0.09 0.10 0.11 0.15 0.18

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.09 0.02 0.11 D

83/11/ 5 -----BEGIN-----BEGIN-----83/11/ 5 0/18

HORIZONTAL
SE = 0.47
AZ = -40.
VERTICAL
SE = 1.37
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDHM NF AVEM SDFM
831105 018 31.29 44N 9.41 113W57.89 10.03 2.52 12 10 76 1 0.08 0.7 1.4 A AIA 0.07 10 18 0.00 0.07 0 0.0 0.0 6 2.5 0.2
SE OF ORIG = 0.055 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR=0-TTOB-TTICAL-DELAY= P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 3.4 13 159 33.241P0 1.95 1.88 0.07 1.053 35.81 4.52 4.43 0.08 0.000 718 36 2.37
84 10.3 65 130 33.861PC 2.57 2.53 0.03 1.053 35.69 4.40 4.45 -0.05 0.737 718 50 2.67
850 10.4 64 129 33.791P 2.50 2.54 -0.05 1.053 38.50 7.21 7.19 0.02 0.737 718 7
815 19.0 277 110 35.041P 3.75 3.77 -0.03 1.053 40.04 8.75 8.77 -0.03 0.000 718 55 2.87
844 21.2 351 107 0.001P 4 -31.29 4.11 -0.05 1.053 40.40 9.11 9.13 -0.02 0.000 718 50 2.77
812 21.2 201 107 35.351P0 4.06 4.11 0.13 1.053 43.02 11.73 11.73 0.00 0.000 718 32 2.37
811 27.0 152 102 36.441P 5.15 5.01 -0.01 1.053 43.02 11.73 12.47 -0.75 0.000
81 28.2 345 101 36.501PC 5.21 5.22 -0.11 1.053
85 29.4 124 100 36.591P 5.30 5.41 0.12 1.053
86 37.5 124 97 38.121PC 6.83 6.70 -0.09 1.053
89 40.2 141 97 38.331PC 7.04 7.13

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NW SE Z E NE SW
AVE. OF END POINTS 0.05 0.08 0.15 0.16 0.17 0.19 0.21

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.08 -0.01 0.14 D

```

-----BEGIN-----BEGIN-----BEGIN-----
83/11/ 5 1/51 83/11/ 5 1/51 83/11/ 5 1/51

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HORIZONTAL
SE = 0.55
AZ = -14.

VERTICAL
SE = 1.47
QUALITY = A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	ND	O3	GAP	M	RMS	LRM	ERL	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM	
1314931105	15149-51	44N	8-24	113457.89	8.45	3.36	23	9	139	1	0.16	0.9	1.5	C	RIC	0.18	10	48	0.00	0.12	0	0.0	0.0	5	3.4	0.2
SE OF ORIG = 0.069																										
7 ITERATIONS TOTAL																										

(- STATION DATA -)	(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----)	VARI	(---- S-WAVE TRAVEL-TIME DATA ----)	(--- MAGNITUDE DATA ---)
STN DZ	AIN PSEC PRMK+TCOR-DT0TB-TTICAL-DELAY=EDLY=P-RCS THIC	P-W T	SSEC SRMK TT0B TYCAL S-RES S-MNT AMX PR XMAG R FMP FMAG	
95-2	2.9 347 159 51.29EP 0	1.78 1.60	52.62 3.11 2.81 0.31 0.000	
MW-2	8.0 69 131 51.90 PD0	2.39 2.09 0.17	0.00-49.51 3.65-53.46 0.000	
MSOI	9.2 13 127 51.60 P 0	2.09 2.23	0.00-49.51 3.90-53.41 0.000	
3337	9.2 151 126 51.74EP 0	2.23 2.23	53.44 3.93 3.91 0.03 0.729	
MBAI	9.6 95 125 51.94 PD0	2.43 2.28	0.00-49.51 3.99-53.50 0.000	
MW-1	11.1 133 120 52.26 PD0	2.75 2.49 0.30	0.00-49.51 4.36-54.39 0.000	
MSO	11.5 54 119 52.01EP 0	2.50 2.54	54.02 4.51 4.45 0.06 0.000	
HBP1	13.1 176 114 52.35 PC0	2.84 2.79	53.56 4.05 4.88 -0.83 0.000	
MWU1	13.8 341 112 52.40 PD0	2.89 2.89	0.00-49.51 5.06-54.56 0.000	
HBP3	13.9 344 112 52.51EP 0	3.00 2.90	55.09 5.58 5.08 0.50 0.000	
OPI	14.0 50 112 52.43 PD0	2.92 2.92	0.00-49.51 5.10-54.61 0.000	
B41	15.7 201 108 0.00 P 4	-49.51 3.17	55.00 5.49 5.55 -0.06 0.729	
B503	17.8 343 104 53.05 PD0	3.54 3.51	0.00-49.51 6.14-55.65 0.000	
MRCI	18.6 202 103 53.05 PC0	3.54 3.64	54.45 4.94 6.37 -1.42 0.000	
L5G5	20.2 84 101 53.43 PD0	3.92 3.89	0.00-49.51 6.80-56.31 0.000	
LCRI	20.4 122 101 53.15 PD0	3.64 3.91	0.00-49.51 6.85-56.35 0.000	
344	23.4 352 98 53.70 P 0	4.19 4.39	57.15 7.64 7.67 -0.03 0.729	
MDCI	43.9 113 93 56.75 PC0	7.24 7.71	0.00-49.51 13.49-63.00 0.000	
MTI	84.2 124 91 3.97 P 0	14.46 14.25	0.00 10.49 24.94-14.44 0.000	67 3.1
JOI	103.3 93 91 6.94 P 0	17.43 17.34	0.00 10.49 30.35-19.86 0.000	65 3.2
C18	116.1 135 65 9.02 P 0	19.51 19.24	0.00 10.49 33.67-23.18 0.000	69 3.3
GSI	153.2 96 65 14.62 P 0	25.11 24.70	0.00 10.49 43.22-32.73 0.000	71 3.4
TMI	189.1 119 65 19.41 P 0	29.90 29.98	0.00 10.49 52.47-41.98 0.000	94 3.8
MW	244.2 96 50 27.46 P 0	37.95 36.99	0.00 10.49 64.74-54.25 0.000	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	SE	Z	E	SW	NE	NW
Ave. of end points	0.01	0.04	0.06	0.06	0.10	0.11
						0.12

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
6	0.16	-0.08			0.07	0

END-----END-----END

83/11/ 5 ----- 3/56 ----- BEGIN ----- BEGIN ----- 83/11/ 5 3/56

HORIZONTAL SE = 0.31 SE = 0.43 VERTICAL SE = 0.98
AZ = -36. AZ = -126. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ER2 Q SDO ADJ IN NR AVR AIR NM AVXM SDXM MF AVFM SDFM
831105 356 29.26 44N11.89 114W 1.97 10.19 2.04 11 15 95 1 0.05 0.4 1.0 8 AIB 0.05 10 13 0.00 0.04 0 0.0 0.0 1 2.0 0.0
SE OF ORIG = 0.039 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
916 6.3 101 145 31.361PC 2.10 2.12 -0.02 1.058 34.81 5.55 5.50 0.05 0.740 219 2
815 13.6 261 121 32.301PC 3.04 2.99 0.05 1.058 36.85 7.59 7.63 -0.04 0.740 219 2
84 14.7 91 119 32.361PC 3.10 3.14 -0.04 1.058 40.06 10.80 11.46 -0.65 0.000 219 22 2.02
81 22.8 356 106 33.641PC 4.38 4.36 0.02 1.058 42.89 13.63 14.46 -0.82 0.000 219 2
812 24.5 185 105 33.791PC 4.53 4.62 -0.09 1.058 219 2
811 33.6 148 99 35.381PC 6.12 6.09 0.04 1.058 219 2
85 36.5 125 98 35.761PC 6.50 6.55 -0.04 1.058 219 2
86 44.6 125 96 37.101P 7.84 7.85 -0.01 1.058 219 22 2.02
39 47.2 140 95 37.591P 8.33 8.26 0.07 1.058 219 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E SW NE N Z
AVE. OF END POINTS 0.09 0.12 0.15 0.17 0.22 0.24 0.24

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.05 0.03 0.17 D

X>

X>

83/11/ 5 4/22 BEGIN-----BEGIN-----83/11/ 5 4/22

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831105 422 9.12 44N 8.51 113W50.38 8.67 3.18 28 9 81 1 0.17 0.9 1.4 8 81A 0.08 10 57 0.00 0.12 0 0.0 0.0 9 3.2 0.2
SE OF ORIG = 0.060
5 ITERATIONS TOTAL

HORIZONTAL SE = 0.61 SE = 0.87
AZ = -29. AZ = -119.

VERTICAL SE = 1.37 QUALITY = A

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK<TCDR=0=TT08-TTCL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR X2AG R FMP F2AG
816 5.2 16 145 11.031P0 1.91 1.81 0.10 1.022 0.00 -9.12 3.79-13.21 0.000 220 80 3.02
M-2 8.5 74 130 11.60 P00 2.48 2.17 0.15 1.022 0.00 -9.12 3.88-13.00 0.000 220 2
WSUI 8.9 18 129 11.29 P 0 2.17 2.22 -0.04 1.022 13.37 4.25 4.13 0.12 0.715 220 2
837 10.0 149 125 11.511P 2.39 2.36 0.03 1.022 0.00 -9.12 4.22-13.33 0.000 220 2
MBRI 10.3 98 123 11.71 P00 2.59 2.41 0.18 1.022 0.00 -9.12 4.22-13.33 0.000 220 2
84 11.6 58 119 11.751P0 2.63 2.59 0.04 1.022 14.16 5.04 4.53 0.51 0.000 220 2
M-1 11.9 133 119 12.01 P00 2.89 2.62 0.03 1.022 0.00 -9.12 4.59-14.23 0.000 220 2
MWSI 13.1 343 116 11.86 P00 2.74 2.79 -0.05 1.022 0.00 -9.12 4.89-14.00 0.000 220 2
SRPI 13.7 173 114 12.06 P00 2.94 2.89 0.06 1.022 12.76 3.64 5.05 -1.41 0.000 220 2
OSPI 14.2 53 113 12.08 P00 2.96 2.96 0.00 1.022 0.00 -9.12 5.18-14.30 0.000 220 2
841 15.9 198 109 0.00 P 4 -9.12 3.22 14.74 5.62 5.64 -0.02 0.000 220 2
8SU3 17.1 345 107 12.55 P00 3.43 3.41 0.03 1.022 0.00 -9.12 5.96-15.08 0.000 220 2
815 18.7 282 104 12.721P 3.60 3.65 -0.05 1.022 15.16 6.04 6.39 -0.35 0.000 220 70 2.92
8RCI 18.9 200 104 12.76 P00 3.64 3.68 -0.04 1.022 15.26 6.14 6.44 -0.30 0.000 220 2
812 19.4 201 103 12.901P 3.78 3.77 0.01 1.022 14.87 5.75 6.99 -1.23 0.000 220 2
LSGS 20.8 86 102 13.20 P00 4.08 3.99 0.09 1.022 0.00 -9.12 7.09-16.21 0.000 220 2
LCRI 21.2 122 101 12.95 P00 3.83 4.05 -0.22 1.022 15.99 6.87 7.10 -0.23 0.715 220 2
851 21.2 123 101 13.04EP00 3.92 4.06 -0.13 1.022 16.67 7.55 7.53 0.02 0.000 220 2
844 22.8 353 100 0.00 P 4 -9.12 4.30 -13.42 0.000 17.03 7.91 8.37 -0.46 0.000 220 80 3.12
811 25.8 149 98 13.921P 4.80 4.79 0.02 1.022 18.20 9.08 9.46 -0.38 0.000 220 75 3.02
85 25.1 121 96 14.381P0 5.26 5.31 -0.04 1.022 20.03 10.91 11.59 -0.68 0.000 220 58 2.82
81 29.7 347 96 14.401P 5.28 5.41 -0.12 1.022 21.79 12.67 12.20 0.47 0.000 220 120 3.52
86 37.1 122 94 15.551P 6.43 6.62 -0.19 1.022 22.14 13.02 13.72 -0.70 0.000 220 2
89 39.3 139 94 15.891P 6.77 6.97 -0.20 1.022 0.00 -9.12 25.17-34.29 0.000 220 75 3.22
MDCI 44.7 114 93 16.58 P+0 7.46 7.84 0.31 1.022 38.80 29.68 30.53 -0.84 0.000 220 86 3.42
MPI 85.0 124 91 23.91 P00 14.79 14.39 0.41 1.022 43.50 34.38 33.86 0.53 0.000 220 89 3.52
JGI 103.9 93 65 26.59 P00 17.47 17.44 0.03 1.022 0.00 -9.12 43.38-52.50 0.000 220 2
CIS 116.9 135 65 28.89 P00 19.77 19.35 0.43 1.022 0.00 -9.12 52.66-61.77 0.000 220 2
GBI 153.9 96 65 34.30 P 0 25.18 24.79 0.3900.000 0.00 -9.12 52.66-61.77 0.000 220 2
TMI 189.9 119 65 39.18 P 0 30.06 30.09 -0.0300.000 0.00 -9.12 52.66-61.77 0.000 220 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N E Z NE SE SW NW
AVE. OF END POINTS 0.01 0.07 0.08 0.09 0.12 0.12 0.12

NUMBER 8
RMS MIN DRMS AVE DRMS QUALITY
0.17 -0.01 0.05 0

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-----BEGIN-----BEGIN-----
83/11/ 5 5/37 83/11/ 5 5/37

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DATE          ORIGIN      LAT      LONG      DEPTH      MAG NO 03 GAP M  RMS
831105      537 39.87 44N13.38 114W 3.91  8.32  3.56 29  8  80 1  0.13
SE OF ORIG = 0.060
4 ITERATIONS TOTAL

HORIZONTAL          SE = 0.72      VERTICAL          SE = 1.24
AZ = -26.          AZ = -116.      QUALITY = A

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[illegible]

QUALITY EVALUATION

83/11/ 5 -----BEGIN-----BEGIN-----83/11/ 5 7/32

HORIZONTAL
SE = 0.47
AZ = -31.
VERTICAL
SE = 0.88
AZ = -121.
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831105 732 6.59 44N 7.89 113W51.66 6.55 2.35 10 21 121 1 0.08 0.9 0.9 8 B18 0.33 10 13 0.00 0.07 0 0.0 0.0 9 2.4 0.4
SE OF ORIG = 0.041 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTCAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR RMAG R FMP FMAG
84 7.3 8 131 8.45IPC 1.86 1.80 0.06 1.031 13.93 7.34 7.15 0.19 0.722 222 40 2.42
816 9.7 309 123 8.67EPC 2.08 2.14 -0.07 1.031 14.89 8.30 8.94 -0.64 0.000 222 34 2.32
95 21.1 131 106 10.60IPC 4.01 4.02 -0.01 1.031 15.33 8.74 9.37 -0.64 0.000 222 80 3.12
311 21.5 169 106 10.57EPC 3.98 4.08 -0.11 1.031 21.89 15.30 10.48 4.82 0.000 222 34 2.32
812 23.3 223 104 10.94IP 4.35 4.40 -0.05 1.031 51.75 16.72 16.71 0.01 0.722 222 67 2.92
815 27.6 281 65 11.73EP 5.14 5.11 -0.03 1.031 51.75 16.72 16.71 0.01 0.722 222 15 1.62
86 29.2 129 65 11.84IP 5.25 5.36 -0.11 1.031 51.75 16.72 16.71 0.01 0.722 222 22 2.02
89 33.1 149 65 12.65EPD 6.06 5.99 0.07 1.031 51.75 16.72 16.71 0.01 0.722 222 38 2.52
81 33.8 333 65 12.77IP 6.18 6.11 0.06 1.031 51.75 16.72 16.71 0.01 0.722 222 27 2.22

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW SE N E NE SW
AVE. OF END POINTS 0.08 0.08 0.14 0.17 0.20 0.21 0.26

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.08 0.00 0.17 0

83/11/ 5 -----BEGIN-----BEGIN-----83/11/ 5 8/ 8

HORIZONTAL
SE = 0.70
AZ = -69.
VERTICAL
SE = 1.09
AZ = 21.
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831105 8 8 35.03 43N56.59 113W47.91 11.34 2.35 10 14 138 1 0.08 1.1 2.1 C B1C 1.58 10 13 0.00 0.06 0 0.0 0.0 8 2.3 0.2
SE OF ORIG = 0.112 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTCAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR RMAG R FMP FMAG
811 0.9 261 175 37.03IPC 2.00 1.99 0.01 1.031 41.90 6.87 6.43 0.44 0.000 223 37 2.32
85 13.2 97 126 38.161PO 3.13 3.03 0.10 1.031 44.95 9.92 7.37 2.55 0.000 223 45 2.62
89 14.0 123 124 38.181PO 3.15 3.15 0.00 1.031 43.70 8.67 9.26 -0.59 0.000 223 23 2.02
86 17.8 82 117 38.651PO 3.62 3.67 -0.05 1.031 43.70 8.67 9.26 -0.59 0.000 223 46 2.62
812 21.4 281 112 39.191PO 4.16 4.21 -0.05 1.031 43.70 8.67 9.26 -0.59 0.000 223 37 2.42
84 28.4 352 105 40.20IPC 5.17 5.29 -0.12 1.031 51.75 16.72 16.71 0.01 0.722 223 34 2.42
816 29.9 335 104 40.46EPC 5.43 5.51 -0.08 1.031 51.75 16.72 16.71 0.01 0.722 223 29 2.32
815 41.5 309 99 42.50EP 7.47 7.37 0.10 1.031 51.75 16.72 16.71 0.01 0.722 223 24 2.22
81 55.0 338 96 44.67IPC 9.64 9.55 0.09 1.031

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE SE N E NW
AVE. OF END POINTS 0.45 0.52 0.52 0.71 0.80 0.92 1.05


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-----BEGIN-----BEGIN-----
83/11/ 5 8/13      83/11/ 5 8/13

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HORIZONTAL										VERTICAL																
SE = 0.37					SE = 0.48					SE = 0.87					QUALITY = A											
AZ = -31.					AZ = -121.																					
DATE	ORIGIN	LAT	LONG	DEPTH	MAG	ND	D3	GAP	M	RMS	ERM	ERZ	U	SQD	ADJ	IN	MR	AVR	AAR	MM	AVXM	SQXM	NF	AVFM	SQFM	
8331105	813 39.31	44N12-65	114W 1.14	9.13	2.96	25	6	96	1	0.08	0.5	0.9	8	A18	0.06	10	42	0.00	0.07	0	0.0	0.0	8	3.0	0.3	
SE OF ORIG = 0.044 6 ITERATIONS TOTAL																										
----- P-WAVE TRAVEL-TIME DATA AND DELAYS ----- VARI (---- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ---- STN DIST AZM AIN PSEC PRNK+TCOR-DAT88-TICAL-DELAY= P-RES P-WI THIC SSEC SRMK TTON TICAL S-RES S-WT ANX PR AMAG R FMP FMAG 2.7 158 162 40.98 P 2 1.67 1.70 -0.03 0.271 0.00-39.31 2.98-42.28 0.000 224 2 4.9 358 149 40.10 P00 0.79 1.85 -1.06MO-000 0.00-39.31 3.24-42.54 0.000 224 2 5.3 7 147 41.30IPD 1.99 1.88 0.11 1.085 42.63 3.32 3.29 0.03 0.759 224 2 5.7 117 144 41.19IPD 1.88 1.93 -0.04 1.085 0.00-39.31 3.72-43.03 0.000 224 83 3.12 7.7 66 135 40.54 P00 1.23 2.13 -0.89MO-000 43.80 4.49 4.53 -0.03 0.759 224 2 -39.31 2.59 11.3 314 123 0.00IP 4 0.01 1.085 0.00 1.085 224 2 12.9 114 118 42.30 P 2.99 2.81 0.17 0.03 1.085 224 2 13.7 97 116 42.25IPD 2.94 2.91 0.00 1.085 224 83 3.12 15.0 256 113 42.42IPC 3.11 3.13 -0.42-42 0.000 5.45 -0.18 0.759 224 2 -39.31 3.11 15.0 4 113 0.00IP 4 -0.02 1.085 43.61 4.10 5.45 -1.34 0.000 224 2 15.0 87 113 42.40 P00 3.09 3.11 0.00 1.085 0.00-39.31 5.87-45.17 0.000 224 2 16.6 123 110 42.74 P00 3.43 3.35 0.08 1.085 45.57 6.26 6.36 -0.10 0.759 224 2 18.5 152 107 42.91EPC 3.60 3.64 -0.03 1.085 0.08 1.085 224 2 20.0 142 105 43.56 P 4.25 3.88 0.08 1.085 45.92 6.61 7.32 -0.70 0.000 224 55 2.72 -1 20.1 352 103 43.51IPC 4.20 4.12 0.08 1.085 47.29 7.98 8.23 -0.25 0.000 224 2 21.9 166 103 43.57 P00 4.26 4.18 0.08 1.085 0.00-39.31 8.32-47.63 0.000 224 2 25.2 104 100 44.04 P00 4.73 4.70 0.03 1.085 0.00-39.31 9.22-48.52 0.000 224 2 25.5 186 100 43.90 PCO 4.59 4.76 -0.16 1.085 49.98 10.57 10.78 -0.20 0.000 224 60 2.92 26.0 187 99 44.16IP 4.85 4.83 0.02 1.085 50.86 11.55 11.39 0.16 0.000 224 2 28.7 131 98 44.50 P00 5.19 5.27 -0.07 1.085 53.98 14.67 14.55 0.12 0.000 224 39 2.52 34.3 151 96 45.59IPC 6.28 6.16 0.12 1.085 54.59 15.28 15.64 -0.36 0.000 224 88 3.22 36.5 128 95 45.86IPD 6.55 6.51 0.04 1.085 56.59 16.55 16.44 -0.11 0.000 224 2 44.5 128 94 47.10EP 7.79 7.83 -0.04 1.085 58.86 17.55 17.44 -0.11 0.000 224 2 47.5 142 94 47.68EP 8.37 8.31 0.06 1.085 59.86 18.55 18.44 -0.11 0.000 224 2 51.4 120 93 48.07 P00 8.76 8.94 -0.18 1.085 60.86 19.55 19.44 -0.11 0.000 224 2																										

QUALITY EVALUATION										
DIAGONALS IN ORDER OF STRENGTH										
AVE. OF END POINTS										
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY	D	SW	SE	NE
10	0.08			0.08	0.16			0.17	0.19	0.19

83/11/ 5 -----10/41-----BEGIN-----BEGIN-----83/11/ 5 10/41

HORIZONTAL SE = 0.43 SE = 0.63 VERTICAL
AZ = -63. AZ = 27. SE = 1.38 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR MM AVXM SOXM MF AVFM SOFM
831105 1041 36.01 44M19.20 114W 2.73 10.05 2.84 9 20 137 1 0.04 0.6 1.4 8 AIC 0.53 10 14 0.00 0.03 0 0.0 0.0 8 2.8 0.3
SE OF ORIG = 0.062 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-OTTCOR-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMRG R FMP FMAG
81 9.2 356 133 38.40IPO 2.39 2.41 -0.02 1.034 41.75 5.74 5.91 -0.17 0.000 225 53 2.72
816 16.4 154 115 39.44IPO 3.43 3.38 0.05 1.034 43.38 7.37 6.88 0.48 0.000 225 55 2.82
815 20.1 218 109 39.96IPC 3.95 3.93 0.01 1.034 43.05 7.04 7.09 -0.05 0.724 225 65 2.92
84 20.8 131 108 40.12IPO 4.11 4.05 0.05 1.034 50.53 14.52 14.14 0.37 0.000 225 100 3.32
812 37.9 182 97 42.74IPO 6.73 6.77 -0.04 1.034 53.58 17.57 17.69 -0.13 0.000 225 49 2.72
811 46.1 156 95 44.43EPD4 8.42 8.08 0.33 0.000 225 2
85 46.3 138 95 44.14IPO 8.13 8.12 0.00 1.034 225 33 2.42
86 54.3 136 94 45.45EP 9.44 9.41 0.03 1.034 225 75 3.22
89 58.6 147 94 46.08EP 10.07 10.11 -0.05 1.034

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E M SE SW NE Z
AVE. OF END POINTS 0.14 0.15 0.15 0.18 0.19 0.19 0.29

NUMBER RMS MIN DRMS AVE DRMS QUALITY
8 0.04 0.08 0.18 0

83/11/ 5 17/36 BEGIN-----BEGIN-----83/11/ 5 17/36

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERH ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SDRM NF AVFM SDFM
831105 1736 25.56 44W10.45 114W 1.42 9.26 3.51 34 9 84 1 0.18 0.9 1.6 8 BIA 0.10 10 67 0.00 0.13 0 0.0 0.0 8 3.5 0.2
SE OF ORIG = 0.068 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCL-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XMAX R PMP PMAG
916 5.7 75 145 27.63IP02 2.07 1.93 0.14 0.260 0.00-25.56 3.88-29.44 0.000 228 133 3.52
MSUI 8.3 54 133 27.85 P 0 2.29 2.22 0.07 1.041 0.00-25.56 4.01-29.57 0.000 228 2
NWSI 9.0 1 131 28.15 P00 2.59 2.29 0.30 1.041 0.00-25.56 4.09 0.12 0.729 228 2
B43 9.3 6 130 27.99 P00 2.43 2.34 0.10 1.041 29.77 4.21 4.09 0.12 0.729 228 2
MSUI 10.3 45 127 28.00 P00 2.44 2.45 -0.01 1.041 0.00-25.56 4.29-29.85 0.000 228 2
M-2 12.2 96 112 28.64 P00 3.08 2.72 0.17 0.19 1.041 0.00-25.56 4.76-30.62 0.000 228 2
MSUI 13.0 358 119 28.25 P 0 2.69 2.82 -0.13 1.041 0.00-25.56 4.94-30.50 0.000 228 2
B45 14.2 272 116 28.60IPC 3.04 2.99 0.05 1.041 33.44 7.88 5.24 2.64 0.000 228 108 3.32
B4 14.2 80 116 28.55IPC 2.99 2.99 0.00 1.041 30.69 5.13 5.25 -0.12 0.729 228 155 3.62
B49 14.2 327 116 28.53EPD0 2.97 3.00 -0.03 1.041 0.00-25.56 5.50-31.05 0.000 228 2
MBAI 15.1 109 114 28.89 P00 3.33 3.14 0.19 1.041 0.00-25.56 5.52 0.22 0.000 228 2
B37 15.2 143 113 28.76IPC 3.20 3.16 0.05 1.041 31.30 5.74 5.52 0.22 0.000 228 2
OSPI 16.1 72 112 28.83 P00 3.27 3.29 -0.02 1.041 0.00-25.56 5.75-31.31 0.000 228 2
M-1 17.3 132 110 29.33 P00 3.77 3.47 0.00 1.041 0.00-25.56 6.07-32.15 0.000 228 2
SRPI 18.1 162 108 29.12 P00 3.56 3.59 -0.03 1.041 0.00-25.56 6.28-31.84 0.000 228 2
941 18.8 183 107 29.28IPC 3.72 3.69 0.03 1.041 32.16 6.60 6.46 0.14 0.000 228 2
B44 19.1 4 107 29.07 P 0 3.51 3.73 -0.22 1.041 31.67 6.11 6.54 -0.42 0.000 228 2
BRCI 21.4 186 104 29.70 P00 4.14 4.11 0.03 1.041 0.00-25.56 7.20-32.76 0.000 228 2
B12 21.9 188 103 29.81IPC 4.25 4.19 0.06 1.041 0.00-25.56 8.15-33.71 0.000 228 2
LSGS 24.9 95 101 30.24 P00 4.68 4.66 0.03 1.041 0.00-25.56 8.62-34.17 0.000 228 2
B1 25.5 354 100 30.14IPC 4.58 4.76 -0.18 1.041 34.34 8.78 8.63 0.15 0.000 228 2
LCRI 26.5 124 100 30.15 P00 4.59 4.92 -0.17 1.041 35.10 9.54 9.46 -0.32 0.000 228 120 3.52
B51 26.6 125 100 30.32 P 0 4.76 4.93 0.09 1.041 35.52 9.96 10.82 -0.86 0.000 228 2
B11 31.0 146 97 31.10IPC 5.54 5.64 -0.09 1.041 36.25 10.69 10.82 -0.13 0.000 228 2
B5 34.4 122 96 31.69IPC 6.13 6.18 -0.05 1.041 38.40 12.84 13.10 -0.25 0.000 228 85 3.22
B38 34.4 122 96 31.72 P00 6.16 6.18 -0.02 1.041 39.08 13.52 15.20 -1.68 0.000 228 2
B6 42.5 123 95 32.86IPC 7.30 7.48 -0.18 1.041 0.00-25.56 26.71-52.27 0.000 228 106 3.62
39 44.7 138 94 33.16IPC 7.60 7.85 -0.25 1.041 0.00-25.56 31.56-57.12 0.000 228 119 3.72
MDCI 45.8 116 94 33.88 P00 8.32 8.69 -0.37 1.041 60.83 35.27 35.18 0.09 0.000 228 116 3.82
API 90.4 125 92 41.09 P00 15.53 15.26 0.27 1.041 0.00-25.56 44.46-70.01 0.000 228 2
JGI 108.2 95 65 43.81 P00 18.25 18.03 0.22 1.041 0.00-25.56 53.89-79.45 0.000 228 2
C13 122.3 135 65 46.12 P00 20.56 20.10 0.46 1.041 0.1100.000 37.13 71.57 67.24 4.33 0.000 228 2
GBI 158.3 98 65 51.35 P 0 25.79 25.40 0.3900.000 0.00 34.44 73.36-38.92 0.000 228 2
TMI 195.2 120 50 56.46 P 0 30.90 30.80 2.20M0.000
NPI 256.3 151 50 6.18 P 0 40.62 38.42
MLI 284.2 147 50 9.80 P 0 44.24 41.92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SW E NW Z NE SE
AVE. OF END POINTS 0.03 0.04 0.06 0.06 0.09 0.09 0.12
NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.18 -0.02 0.07 D

83/11/ 5 17/42 -----BEGIN-----BEGIN-----83/11/ 5 17/42

HORIZONTAL
SE = 0.47
AZ = -60.
VERTICAL
SE = 1.11
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831105 1742 38.98 44N13.16 114W 0.82 11.47 2.34 10 16 110 1 0.06 0.7 1.1 8 A18 0.06 10 14 0.00 0.04 0 0.0 0.0 8 2.3 0.2
SE OF ORIG = 0.056 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK*TCOR-D=TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
016 5.9 128 151 41.261PD 2.28 2.26 0.02 1.031 44.34 5.36 5.38 -0.02 0.722 226 33 2.32
04 13.4 101 126 42.081PC 3.10 3.07 0.02 1.031 44.69 5.71 5.92 -0.21 0.000 226 30 2.22
015 15.6 253 121 42.331PC 3.35 3.38 -0.04 1.031 45.95 6.97 7.18 -0.21 0.000 226 35 2.42
01 20.6 351 113 43.101PD 4.12 4.10 0.01 1.031 50.82 11.84 11.07 0.76 0.000 226 50 2.72
012 27.0 188 106 45.061PD 5.08 5.07 0.00 1.031 53.68 14.70 14.75 -0.06 0.000 226 27 2.22
011 34.9 152 101 45.451EP 6.47 6.33 0.14 1.031 226 25 2.22
05 36.7 130 101 45.571PC 6.59 6.62 -0.03 1.031 226 42 2.62
06 44.8 129 98 45.871PD 7.89 7.91 -0.02 1.031
09 48.0 143 97 47.33EP 8.35 8.43 -0.08 1.031

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW E NE SW Z N
AVE. OF END POINTS 0.09 0.11 0.15 0.19 0.20 0.20 0.23

NUMBER 5
RMS 0.06
MIN DRMS -0.01
AVE DRMS 0.16
QUALITY D

83/11/ 5 1743 BEGIN-----BEGIN-----83/11/ 5 1743

HORIZONTAL SE = 0.84 SE = 1.46 VERTICAL SE = 2.71
AZ = -26. AZ = -116. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD AOJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831105 1743 55.12 44N 8.06 113458.41 8.37 3.35 32 8 81 1 0.32 1.5 2.7 8 CIA 0.78 10 61 0.00 0.26 0 0.0 0.0 12 3.3 0.3
SE OF ORIG = 0.107 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-D=TTDB-TTICAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR 227 100 3.22
816 4.6 19 148 56.751PD 1.63 1.72 -0.08 1.060 0.00-55.12 3.69-58.81 0.000 227 2
MSUI 8.3 19 130 57.25 P00 2.13 2.11 -0.02 1.060 0.00-55.12 3.71-59.12 0.000 227 2
M-2 8.3 78 129 57.39 P00 2.27 2.12 0.17 -0.01 1.060 0.00-55.12 4.20-59.32 0.000 227 2
MBAI 10.5 101 121 57.51 P00 2.39 2.40 -0.01 1.060 59.82 4.70 4.22 0.48 0.742 227 2
B37 10.6 151 121 57.85EPD 2.73 2.41 0.32 1.060 60.44 5.32 4.41 0.91 0.000 227 2
MSUI 10.7 18 121 57.85 P00 2.13 2.43 -0.30 1.060 0.00-55.12 4.26-59.37 0.000 227 135 3.52
84 11.3 61 119 57.501PD 2.38 2.52 -0.14 1.060 0.00-55.12 4.66-60.30 0.000 227 2
M-1 12.4 135 116 57.83 P00 2.71 2.66 0.30 -0.25 1.060 60.40 5.28 4.71 0.57 0.742 227 2
MWSI 12.5 342 116 57.50 P00 2.38 2.68 -0.29 1.060 0.00-55.12 4.69-59.80 0.000 227 2
843 12.6 346 115 58.141P 3.02 2.69 -0.33 1.060 60.82 5.70 5.19 0.52 0.000 227 2
OSPI 13.8 55 112 57.89 P00 2.77 2.89 -0.11 1.060 0.00-55.12 5.05-60.17 0.000 227 2
DRPI 14.3 173 111 57.82 P+0 2.70 2.96 -0.26 1.060 61.14 6.02 5.77 0.25 0.742 227 2
85U3 16.5 345 106 58.25 P 0 3.13 3.29 -0.16 1.060 61.73 6.61 6.32 0.29 0.000 227 102 3.32
d15 18.5 281 103 58.44IPC 3.32 3.61 -0.29 1.060 62.18 7.06 6.46 0.61 0.742 227 2
849 19.0 321 102 0.001P 4 -55.12 3.69 -58.81 0.000 60.35 5.23 6.59 -1.35 0.000 227 2
BRCI 19.5 199 102 58.55 P+0 3.43 3.76 0.33 1.060 0.00-55.12 6.95-62.07 0.000 227 2
LSGS 20.8 48 100 59.04 P00 3.92 3.97 -0.05 1.060 0.00-55.12 7.17-62.29 0.000 227 2
LCRI 21.6 123 99 58.95 P 0 3.83 4.10 -0.26 1.060 62.47 7.35 7.19 0.17 0.742 227 2
851 21.6 125 99 59.53EPD 4.41 4.11 0.31 1.060 62.70 7.58 7.33 0.26 0.742 227 2
944 22.1 353 99 0.001P 4 -55.12 4.19 -59.30 0.000 65.05 9.93 9.29 0.64 0.000 227 90 3.22
811 26.4 150 96 59.78EP 4.66 4.88 -0.22 1.060 66.50 11.38 11.69 -0.31 0.000 227 89 3.22
81 29.1 347 95 60.071PD 4.95 5.31 -0.36 1.060 9.40 14.28 13.80 0.48 0.000 227 65 2.92
86 37.5 123 93 61.58EP 6.46 6.68 -0.22 1.060 0.00 4.88 25.28-20.40 0.000 227 132 3.62
89 39.8 140 93 61.96IPC 6.84 7.05 -0.21 1.060 0.00 4.88 30.56-25.68 0.000 227 2
MDCI 45.0 114 93 2.55 PC0 7.43 7.89 -0.45 1.060 0.00 4.88 34.02-29.13 0.000 227 60 3.02
MPI 85.4 125 91 10.09 P 0 14.97 14.45 0.53 1.060 0.00 4.88 43.44-38.56 0.000 227 61 3.12
JGI 104.0 93 91 12.68 P 0 17.56 17.46 0.10 1.060 0.00 4.88 47.90-42.90 0.000 227 89 3.52
CFI 117.4 135 65 15.31 P 0 20.19 19.44 0.75 1.060 0.00 4.88 52.78-47.90 0.000 227 97 3.72
GRI 154.0 97 65 20.72 P 0 25.60 24.83 0.78L0.000 0.00 4.88 64.93-60.05 0.000 227 113 4.02
TAI 190.3 119 65 25.73 P 0 30.61 30.16 0.4500.000 0.00 4.88 64.93-60.05 0.000 227 2
IMW 245.0 97 50 33.61 P 0 38.49 37.10 1.3900.000 0.00 4.88 64.93-60.05 0.000 227 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW N SE
AVE. OF END POINTS 0.24 0.48 0.48 0.65 0.77 0.95 0.96

NUMBER RMS MIN ORMS AVE ORMS QUALITY
32 0.32 0.38 0.69 8

-----END-----END-----END-----END-----

83/11/ 5 18/43 BEGIN-----BEGIN-----83/11/ 5 18/43

HORIZONTAL SE = 0.59 SE = 0.66 VERTICAL SE = 1.86
AZ = 1. AZ = -89. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD AOJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831105 1843 12.64 44N14.18 114W 4.32 9.72 2.44 8 18 127 1 0.05 0.7 1.9 8 A18 0.17 10 12 0.00 0.03 0 0.0 0.0 5 2.4 0.2
SE OF ORIG = 0.071 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 10.8 120 127 15.201PD 2.56 2.57 -0.01 1.000 16.40 3.76 4.81 -1.06 0.000 728 42 2.57
815 12.2 238 123 15.411PD 2.77 2.75 0.01 1.000 19.03 6.39 6.40 -0.02 0.000 728 43 2.57
84 18.4 104 110 16.231PC 3.69 3.66 0.03 1.000 25.42 12.78 12.11 0.67 0.000 728 41 2.07
81 18.5 4 110 16.321PC 3.68 3.68 -0.01 1.000 0.70 0.000 728 24 2.17
812 28.6 178 100 17.881PD 5.24 5.27 -0.04 1.000 0.09 1.000 728 7
811 38.9 147 96 19.571EP 6.93 6.92 0.01 1.000 728 7
85 41.6 128 96 19.911P 7.27 7.35 -0.08 1.000 728 7
86 49.6 127 94 22.001EP 4 9.36 8.65 0.70 0.000 728 24 2.17
89 52.4 140 94 21.831EP 9.19 9.09 0.09 1.000 728 7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM E N SW NE SE Z
AVE. OF END POINTS 0.11 0.20 0.21 0.22 0.24 0.25 0.27

NUMBER RMS MIN ORMS AVE ORMS QUALITY
4 0.05 0.07 0.21 0

XX:

XX:

XX:

XX:

XX:

XX:

83/11/ 5 20/29 BEGIN-----BEGIN-----83/11/ 5 20/29

HORIZONTAL SE = 1.60 VERTICAL SE = 1.46
AZ = -21. AZ = -111. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SDFM
431105 2029 30.35 44N11.60 114W 2.02 8.43 3.55 26 7 178 1 0.21 1.6 1.5 C 81C 0.17 10 54 0.00 0.15 0 0.0 0.0 5 3.5 0.2
SE OF ORIG = 0.101 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (---- MAGNITUDE DATA ----)
SIN DIST AZM AIN PSEC PRMK+TCOR=0-TT08-TTCAL-DELAY=EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
AMPI 2.3 105 163 31.99 P 0 1.64 1.57 0.07 1.048 0.00-30.35 2.75-33.10 0.000
A22 6.0 125 140 32.44 P 0 2.09 1.96 0.23 1.048 33.64 3.29 3.25 0.04 0.734
NMSI 6.9 136 32.35 PCO 2.00 1.96 0.04 1.048 0.00-30.35 3.43-33.78 0.000
B23 7.4 14 134 32.40 P 0 2.05 2.01 0.03 1.048 33.91 3.56 3.52 0.03 0.734
MSUI 8.0 70 131 32.47 P 0 2.12 2.09 0.03 1.048 0.00-30.35 3.66-34.01 0.000
MSUI 9.6 58 125 32.75 PCO 2.40 2.28 0.12 1.048 0.00-30.35 3.99-34.34 0.000
BSU3 10.8 2 121 32.87 PCO 2.52 2.46 0.06 1.048 0.00-30.35 4.30-34.65 0.000
A29 12.0 324 117 0.00 P 4 -30.35 2.62 -32.97 0.000 34.91 4.56 4.59 0.03 0.734
A-2 13.4 105 113 33.34 PCO 2.99 2.83 0.17 -0.01 1.048 0.00-30.35 4.95-35.60 0.000
JSP1 16.4 80 107 33.54 PCO 3.19 3.28 -0.09 1.048 0.00-30.35 5.73-36.09 0.000
M8A1 16.7 115 106 33.75 P00 3.40 3.32 0.08 1.048 0.00-30.35 5.81-36.14 0.000
B44 17.0 7 106 33.44 P 0 3.09 3.37 -0.23 1.048 36.04 5.69 5.90 0.22 0.000
R37 17.4 145 105 33.77 P 0 3.42 3.45 -0.03 1.048 36.35 6.00 6.03 0.04 0.734
M-1 19.4 135 102 34.23 P00 3.88 3.75 0.30 -0.18 1.048 0.00-30.35 6.57-37.44 0.000
B8PI 20.4 161 101 34.12 P00 3.77 3.91 -0.14 1.048 36.62 6.27 6.84 0.58 0.000
B41 20.9 180 100 0.00 P 4 -30.35 3.99 -34.34 0.000 37.10 6.75 6.98 0.24 0.000
BRCI 23.5 184 98 34.70 PCO 4.35 4.40 -0.06 1.048 37.10 6.75 7.71 0.96 0.000
LSG5 25.9 99 97 35.07 PCO 4.72 4.79 -0.08 1.048 0.00-30.35 8.39-38.74 0.000
LCRI 28.4 126 96 35.15 P00 4.80 5.21 -0.41 1.048 0.00-30.35 9.12-39.47 0.000
B51 28.5 127 96 35.40 P 0 5.05 5.22 -0.17 1.048 39.18 8.83 9.14 0.31 0.000
MDCI 51.5 117 92 38.95 PCO 8.60 8.95 -0.35 1.048 0.00-30.35 15.66-46.01 0.000
MPI 92.2 126 91 46.35 P 0 16.00 15.94 0.45 1.048 0.00-30.35 27.20-57.55 0.000
JGI 109.2 96 65 48.76 PCO 18.41 18.24 0.17 1.048 0.00-30.35 31.92-62.27 0.000
CIB 124.4 135 65 51.35 P 0 21.00 20.47 0.23 1.048 0.00-30.35 35.81-66.17 0.000
GBI 159.4 98 65 56.70 P 0 26.35 25.62 0.7300-000 0.00-30.35 44.83-75.19 0.000
IMI 197.0 120 50 1.60 P 0 31.25 31.10 0.1400-000 0.00 29.65 54.43-24.78 0.000
IMW 230.4 98 50 9.21 P 0 38.86 37.77 1.0800-000 0.00 29.65 66.10-36.46 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE Z E SW NW M SE
AVE. OF END POINTS 0.43 0.44 0.51 0.54 0.61 0.83 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
26 0.21 0.32 0.64

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831105 2256 42.89 44N12.78 114W 2.01 10.32 3.62 35 5 69 1 0.13 0.7 1.0 A 0.33 10 66 0.00 0.10 0 0.0 0.0 3 3.6 0.1
SE OF ORIG = 0.058 3 ITERATIONS TOTAL

P-WAVE TRAVEL-TIME DATA AND DELAYS										S-WAVE TRAVEL-TIME DATA												
STN	DIST	ALM	AIN	PSEC	PRMK	TCOR	OTTD	TTCL	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTOT	TTCL	S-RES	S-WT	ANX	PR	FMP	FMAG
AMPI	3.5	142	159	44.80	P 0			1.91	1.93	-0.02	1.054		46.30	3.41	3.37	0.04	0.000				229	2
NWSI	4.8	12	153	44.93	P00			2.04	2.01	0.03	1.054		0.00	-42.89	3.51	-46.40	0.000				229	2
843	5.3	20	150	45.02	P00			2.13	2.05	0.08	1.054		46.66	3.77	3.58	0.19	0.738				229	2
816	6.9	115	143	45.19	P00			2.30	2.19	0.11	1.054										229	2
45UI	7.6	86	140	45.22	P00			2.33	2.26	0.07	1.054		0.00	-42.89	3.96	-46.85	0.000				229	2
N5UI	8.6	70	136	45.25	P 0			2.36	2.38	-0.02	1.054		0.00	-42.89	4.16	-47.05	0.000				229	2
349	10.3	317	131	45.48	EP0			2.59	2.57	0.02	1.054		47.34	4.45	4.50	-0.05	0.738				229	2
815	13.9	254	121	46.03	IPC			3.14	3.05	0.10	1.054										229	2
M-2	14.1	113	120	46.04	P00			3.15	3.07	-0.09	1.054		0.00	-42.89	5.37	-48.56	0.000				229	2
844	14.9	8	119	45.88	IPC			2.99	3.17	-0.18	1.054		48.23	5.34	5.55	-0.21	0.738				229	2
84	14.9	97	119	46.10	IPC			3.21	3.18	0.03	1.054										229	2
850	14.9	97	119	46.03	EP0			3.14	3.18	-0.04	1.054		48.48	5.59	5.57	0.03	0.738				229	2
35PI	16.1	88	116	46.29	P00			3.40	3.35	0.05	1.054		0.00	-42.89	5.87	-48.76	0.000				229	2
48AI	17.7	122	113	46.63	P00			3.74	3.59	0.15	1.054		0.00	-42.89	6.29	-49.18	0.000				229	2
CGI	20.1	57	110	47.20	P-4			4.31	3.95	0.36	0.000		0.00	-42.89	6.92	-49.81	0.000				229	2
M-1	21.0	140	109	47.23	P00			4.34	4.09	-0.04	1.054		0.00	-42.89	7.15	-50.56	0.000				229	2
31	21.1	355	109	46.90	IPC			4.01	4.11	-0.10	1.054		49.75	6.86	7.20	-0.34	0.000				229	2
88PI	22.4	163	107	47.23	PC0			4.34	4.31	0.03	1.054		0.00	-42.89	7.55	-50.44	0.000				229	2
88CI	25.7	184	104	47.70	PC0			4.81	4.81	0.00	1.054		0.00	-42.89	8.42	-51.31	0.000				229	2
812	26.1	185	104	47.71	IPC			4.88	4.88	0.00	1.054										229	2
LSGS	26.4	104	103	47.95	PC0			5.06	4.92	0.14	1.054		49.73	6.84	8.61	-1.77	0.000				229	2
LCRI	29.8	130	101	48.25	P 0			5.36	5.47	-0.11	1.054		0.00	-42.89	9.57	-52.46	0.000				229	2
851	29.9	131	101	48.28	IPC			5.39	5.49	-0.10	1.054		52.34	9.45	9.60	-0.15	0.738				229	2
811	35.1	149	99	49.40	EP 4			6.51	6.32	0.19	0.000		54.17	11.28	11.06	0.22	0.000				229	2
338	37.5	127	98	49.62	EPC			6.73	6.71	0.02	1.054		54.53	11.64	11.75	-0.11	0.738				229	2
357	37.5	127	98	49.54	IPC			6.65	6.71	-0.06	1.054		54.22	11.33	11.75	-0.42	0.000				229	2
36	45.6	127	96	50.78	IPC			7.89	8.01	-0.12	1.054		55.70	12.81	14.02	-1.21	0.000				229	2
49	48.5	141	95	51.18	EP			8.29	8.47	-0.18	1.054		57.53	14.64	14.83	-0.19	0.000				229	2
MUCI	52.5	119	95	51.77	PC0			8.88	9.13	-0.25	1.054		58.02	15.13	15.98	-0.85	0.000				229	2
MP1	93.5	127	92	59.00	P 0			16.11	15.77	0.34	1.054		0.00	-42.89	27.59	-70.48	0.000				229	99 3.52
JUI	109.3	97	65	1.35	PC0			18.46	18.11	0.35	1.054		13.04	30.19	31.70	-1.51	0.000				229	107 3.62
C13	125.9	136	65	3.96	P 0			21.07	20.56	0.5100	0.000		19.94	37.05	35.98	1.07	0.000				229	105 3.72
GB1	159.7	99	65	8.92	PC0			26.03	25.54	0.5000	0.000		27.71	44.82	44.69	0.13	0.000				229	2
TMI	197.9	121	50	14.19	PC0			31.30	31.01	0.2900	0.000		0.00	17.11	54.27	-37.16	0.000				229	2
INW	250.2	98	50	20.11	P 0			37.22	37.56	-0.3400	0.000		0.00	17.11	65.73	-48.62	0.000				229	2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NE	SW	NW	E	N	SE
AVE. OF END POINTS	0.46	0.50	0.61	0.66	0.73	0.83	1.03
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY	
36	0.13	0.49	0.71			A	

83/11/ 6 0/56 BEGIN-----BEGIN-----83/11/ 6 0/56

HORIZONTAL SE = 0.41 SE = 0.60 VERTICAL SE = 1.19 QUALITY = A
 AZ = -37. AZ = -127.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
 831106 056 14.49 44M10.76 11.49 0.74 11.49 2.26 11 15 87 1 0.06 0.6 1.2 A AIA 0.32 10 16 0.00 0.04 0 0.0 0.0 5 2.3 0.2
 SE OF ORIG = 0.053 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ----
 STN DIST AZM AIN PSEC PMK+YCDR-O-TTDB-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XHAG R FMP FMAU
 916 4.6 79 156 16.661PD 2.17 2.17 0.00 1.058 19.82 5.33 5.33 -0.01 0.740 231 32 2.22
 84 13.2 82 127 17.561PD 3.07 3.05 0.02 1.058 22.07 7.58 7.71 -0.13 0.000 231 35 2.32
 815 15.1 270 122 17.781PC 3.29 3.31 -0.02 1.058 22.81 8.32 8.36 -0.04 0.740 231 37 2.42
 812 22.6 190 111 18.911PD 4.42 4.40 0.01 1.058 26.47 9.98 9.97 0.01 0.000 231 2
 81 25.0 352 108 19.311PC 4.82 4.77 0.04 1.058 23.04 10.55 10.79 -0.24 0.000 231 33 2.32
 811 31.0 148 104 20.281PC 5.79 5.70 0.09 1.058 27.91 13.42 13.07 0.35 0.000 231 2
 85 34.0 124 102 20.631PC 6.14 6.16 -0.03 1.058 27.90 13.41 13.76 -0.35 0.000 231 20 2.02
 86 42.0 124 99 22.031PC 7.54 7.47 0.07 1.058 27.90 13.41 13.76 -0.35 0.000 231 2
 89 44.5 139 98 22.201PC 7.71 7.86 -0.15 1.058 27.90 13.41 13.76 -0.35 0.000 231 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE M
 AVE. OF END POINTS 0.41 0.62 0.80 0.88 0.89 1.03 1.11

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
11	0.06	0.43	0.85			A

-----END-----END-----END-----END-----

83/11/ 6 1/39 -----BEGIN-----BEGIN-----83/11/ 6 1/39

HORIZONTAL SE = 0.34 SE = 0.45 VERTICAL SE = 0.92 QUALITY = A
AZ = -33. AZ = -123.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831106 139 26.50 4410.08 113W59.31 10.35 2.20 18 10 78 1 0.07 0.5 0.9 A A1A 0.34 10 28 0.00 0.05 0 0.0 0.0 13 2.2 0.3
SE OF ORIG = 0.040 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAX
816 3.4 51 160 28.361PD 1.86 1.92 -0.06 1.017 30.17 3.07 4.26 -0.59 0.000 232 39 2.42
NSUI 9.1 30 135 28.92EPD 2.42 2.44 -0.02 1.017 30.73 4.23 4.44 -0.21 0.000 232 19 1.82
NWSI 10.0 345 132 29.031PD 2.53 2.53 0.00 1.017 31.22 4.72 4.78 -0.06 0.112 232 15 1.62
84 11.6 74 127 29.211PC 2.71 2.73 -0.02 1.017 31.34 4.84 4.91 -0.07 0.000 232 45 2.52
WBAI 12.3 111 125 29.461PC 2.96 2.81 0.15 1.017 30.90 4.40 5.29 -0.89 0.000 232 27 2.12
DSPI 13.7 66 121 29.501PC 3.00 3.02 -0.02 1.017 32.72 6.22 5.36 0.86 0.000 232 23 2.02
ASU3 14.0 347 121 29.741PD 3.24 3.06 0.18 1.017 32.58 6.08 6.02 0.06 0.000 232 29 2.22
BRPI 16.7 170 115 29.93EPC 3.43 3.44 -0.01 1.017 35.84 9.34 8.68 0.66 0.000 232 22 1.92
815 17.0 274 115 29.951PC 3.45 3.48 -0.03 1.017 36.12 9.42 10.11 -0.49 0.000 232 43 2.52
812 21.8 195 108 30.671PC 4.17 4.21 -0.04 1.017 36.58 10.08 10.49 -0.41 0.000 232 21 1.92
LSGS 22.0 94 108 30.791PC 4.29 4.25 0.04 1.017 40.03 13.53 13.09 0.44 0.000 232 41 2.52
81 26.6 349 103 31.431PC 4.93 4.96 -0.03 1.017 35.84 9.34 8.68 0.66 0.000 232 2 2
85 31.7 124 100 32.241PC 5.74 5.78 -0.04 1.017 36.12 9.42 10.11 -0.49 0.000 232 2
GCI 33.0 15 100 32.431PC 5.93 5.99 -0.06 1.017 36.58 10.08 10.49 -0.41 0.000 232 45 2.62
86 35.8 124 97 33.501PD 7.00 7.07 -0.07 1.017 40.03 13.53 13.09 0.44 0.000 232 36 2.52
89 42.3 140 97 34.011P 7.51 7.48 0.03 1.017 232 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW E SE N
AVE. OF END POINTS 0.33 0.58 0.74 0.78 0.78 0.89 0.96

NUMBER RMS MIN ORMS AVE ORMS QUALITY
18 0.07 0.36 0.76 A

-----END-----END-----END-----

83/11/ 6 3/26 83/11/ 6 3/26

BEGIN-----BEGIN-----BEGIN-----

SE = 0.93 SE = 2.34 SE = 2.76 QUALITY = 8
AZ = 17. AZ = -73.

HORIZONTAL VERTICAL

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831106 326 8.85 44M16.83 114W 7.27 7.83 13 24 234 1 0.10 2.3 2.8 D CID 0.42 10 24 0.00 0.08 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.175 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)

STN	DIST	AIM	AIN	PSC	PMK	YCDR	D	TTDB	TTCL	EDLY	P-RES	P-WT	THIC	SSEC	SMK	TTDB	TTCL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
MWSI	8.5	110	126	10.96	P00			2.11	2.08		0.04	1.000		0.00	-8.85	3.64	-12.48	0.000							
ANPI	13.8	138	108	11.60	P00			2.75	2.85		-0.09	1.000		0.00	-8.85	4.98	-13.83	0.000							
M-2	23.9	123	95	13.48	P00			4.63	4.46	0.17	0.00	1.000		0.00	-8.85	7.87	-16.71	0.000							
CGI	24.1	82	95	13.46	PC0			4.61	4.50		0.12	1.000		0.00	-8.85	7.88	-16.73	0.000							
DSPI	24.1	106	95	13.39	PC0			4.54	4.50		0.04	1.000		0.00	-8.85	8.74	-17.59	0.000							
GCI	27.2	44	94	13.75	PC0			4.90	5.00		-0.09	1.000		0.00	-8.85	8.90	-17.75	0.000							
4BAI	27.7	127	93	13.94	P00			5.09	5.09		0.01	1.000		0.00	-8.85	8.90	-17.75	0.000							
M-1	31.2	139	93	14.75	P			5.90	5.65	0.30	-0.04	1.000		17.64	8.79	10.10	-1.31	0.000							
BRPI	32.0	159	93	14.64	PC0			5.79	5.77		0.02	1.000		0.00	-8.85	10.55	-19.39	0.000							
ARCI	33.5	171	92	15.00	PC0			6.15	6.03		0.13	1.000		0.00	-8.85	11.09	-19.93	0.000							
LSGS	35.4	113	92	15.31	P+0			6.46	6.33		0.13	1.000		0.00	-8.85	12.36	-21.20	0.000							
LCRI	39.9	132	92	15.64	P+0			6.79	7.06		-0.27	1.000		0.00	-8.85	12.36	-21.20	0.000							
MDCI	62.4	122	91	19.57	P+0			10.72	10.72		0.01	1.000		0.00	-8.85	18.76	-27.60	0.000							

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E NW Z SE SW NE N
AVE. OF END POINTS 0.08 0.11 0.11 0.12 0.15 0.16 0.16

NUMBER 8
RMS MIN DRMS AVE DRMS QUALITY
0.10 -0.02 0.13 0

HORIZONTAL
SE = 0.45
AZ = -34.
VERTICAL
SE = 1.11
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM MF AVFM SDFM
331106 644 16.05 44N 9.95 113458-54 8.99 3.22 35 7 76 1 0.15 0.7 1.1 8 81A 0.58 10 64 0.00 0.11 0 0.0 0.0 12 3.2 0.3
SE OF ORIG = 0.046 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTICAL-DELAY-EOLT= P-PRES P-WT THIC SSCS SMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FAP FMAG
B16 2.9 35 161 17.791PD 1.74 1.69 0.06 1.049 18.77 2.72 3.01 -0.29 0.000 233 73 2.92
AMPI 3.5 315 157 17.77 PD0 1.72 1.72 0.00 1.049 0.00-16.05 3.47-19.52 0.000 233 2
WSU1 6.5 27 140 18.12 PC0 2.07 1.98 0.09 1.049 0.00-16.05 3.47-19.52 0.000 233 2
M-2 8.4 92 132 18.39 PC0 2.34 2.19 0.17 -0.02 1.049 0.00-16.05 3.83-20.18 0.000 233 2
MSU1 8.9 23 130 18.34 PC0 2.29 2.25 0.04 1.049 0.00-16.05 3.94-19.99 0.000 233 2
NSU1 10.5 340 120 18.54 PD0 2.49 2.47 0.03 1.049 0.00-16.05 4.31-20.36 0.000 233 2
B43 10.6 344 124 18.61EPD 2.56 2.48 0.09 1.049 20.54 4.49 4.34 0.16 0.735 233 2
B4 10.7 71 124 18.52IPC 2.47 2.49 -0.02 1.049 0.00-16.05 4.48-20.52 0.000 233 80 3.02
M8A1 11.2 111 122 18.78 PC0 2.73 2.56 0.17 1.049 0.00-16.05 4.89-20.93 0.000 233 2
DSPI 12.9 63 118 18.86 PC0 2.81 2.79 0.02 1.049 0.00-16.05 5.14-21.72 0.000 233 2
M-1 14.0 140 115 19.06 PD0 3.01 2.94 0.30 -0.23 1.049 0.00-16.05 5.31-21.36 0.000 233 2
SSU3 14.5 343 114 19.30 PC0 3.25 3.03 0.22 1.049 0.00-16.05 5.31-21.36 0.000 233 2
BRPI 16.3 173 110 19.34 PD0 3.29 3.31 -0.01 1.049 21.94 5.89 5.79 0.11 0.000 233 2
R15 18.0 274 107 19.64IPD 3.59 3.56 0.03 1.049 22.44 6.39 6.24 0.15 0.000 233 61 2.82
B44 20.1 353 104 0.00IP 4 -16.05 3.89 -19.94 0.000 22.60 6.55 6.81 -0.26 0.735 233 2
CGI 20.3 37 104 20.00 PC2 3.95 3.93 0.02 0.262 0.00-16.05 6.88-22.92 0.000 233 2
LSG5 21.0 93 103 20.22 PC0 4.17 4.03 0.14 1.049 0.00-16.05 7.05-23.10 0.000 233 2
BRCI 21.3 197 103 20.15 PD0 4.10 4.08 0.02 1.049 0.00-16.05 7.14-23.19 0.000 233 2
B12 21.9 198 102 20.23IPD 4.18 4.17 0.01 1.049 0.00-16.05 7.58-23.62 0.000 233 152 3.62
LCRI 22.9 127 101 20.15 PC0 4.10 4.33 -0.23 1.049 23.70 7.65 7.60 0.05 0.735 233 2
B51 23.0 128 101 20.20EPD 4.15 4.34 -0.19 1.049 24.50 8.45 8.74 -0.29 0.000 233 72 3.02
B1 27.1 347 98 20.84IP 4.79 5.00 -0.20 1.049 24.58 8.83 9.07 -0.24 0.000 233 109 3.42
B11 28.2 152 98 21.18IPC 5.13 5.18 -0.05 1.049 25.56 9.51 9.76 -0.25 0.000 233 125 3.52
B5 30.7 125 97 21.63IPC 5.58 5.58 0.00 1.049 0.00-16.05 10.41-26.46 0.000 233 55 2.82
B38 30.7 125 97 21.65IPC 5.60 5.58 0.02 1.049 0.00-16.05 12.46-28.51 0.000 233 118 3.52
GCI 33.0 13 96 21.76 PC0 5.71 5.95 -0.24 1.049 26.17 10.12 14.11 -3.98 0.000 233 2
B6 38.8 125 95 22.80IPC 6.75 6.89 -0.14 1.049 0.00-16.05 25.66-41.71 0.000 233 72 3.22
GLI 40.2 287 94 23.15 PC0 7.10 7.12 0.02 1.049 46.39 30.34 30.59 -0.25 0.000 233 77 3.32
B9 41.5 141 94 23.23EPC 7.18 7.33 -0.14 1.049 51.94 35.89 34.34 1.55 0.000 233 93 3.52
MOCI 46.0 117 94 23.87 PC0 7.82 8.06 -0.24 1.049 0.00-16.05 43.48-59.52 0.000 233 2
MPI 86.7 126 92 31.05 PC0 15.00 14.66 0.34 1.049 0.00-16.05 53.01-69.05 0.000 233 2
JGI 104.3 94 65 33.70 PC0 17.65 17.48 0.17 1.049 0.00-16.05 53.01-69.05 0.000 233 2
CIR 118.9 136 65 35.96 P 0 19.91 19.62 0.29 1.049 0.00-16.05 53.01-69.05 0.000 233 2
B3I 154.4 97 65 41.42 P 0 25.37 24.84 0.5300.000 0.00-16.05 53.01-69.05 0.000 233 2
TMI 191.4 120 65 46.29 P 0 30.24 30.29 -0.0500.000 0.00-16.05 53.01-69.05 0.000 233 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW N SE
AVE. OF END POINTS 0.38 0.52 0.61 0.79 0.80 0.96 1.03

NUMBER RMS MIN DRMS AVE DRMS QUALITY
35 0.15 0.47 0.76 A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
831106 7 5 48.37 44N10.43 114W 0.83 10.45 2.45 10 15 82 1 0.03 0.3 0.7 A AIA 0.10 10 14 0.00 0.03 0 0.0 0.0 7 2.5 0.4
SE OF DRIG = 0.030 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM OIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTICAL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
816 4.9 73 153 50.411PD 2.04 2.04 0.01 1.031 51.79 3.42 3.56 -0.14 0.000 234 24 2.12
84 13.4 79 122 51.401PD 3.03 2.99 0.04 1.031 53.56 5.19 5.23 -0.04 0.722 234 29 2.22
815 15.0 272 119 51.531PC 3.16 3.20 -0.03 1.031 53.63 5.26 5.60 -0.33 0.000 234 2 2
812 22.0 190 108 52.641PC 4.27 4.25 0.03 1.031 234 72 3.02
81 25.6 353 104 53.191PD 4.82 4.81 0.01 1.031 234 26 2.12
811 30.5 148 101 54.001PC 5.53 5.60 0.04 1.031 234 2 2
95 33.7 123 100 54.691PD 6.12 6.11 0.02 1.031 234 70 3.02
86 41.8 124 97 55.731PC 7.36 7.40 -0.04 1.031 234 19 1.92
89 44.1 139 96 56.10EP 7.73 7.77 -0.04 1.031 234 55 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW E SW NE Z M
AVE. OF END POINTS 0.06 0.15 0.17 0.19 0.21 0.24 0.31

NUMBER RMS MIN ORMS AVE DRMS QUALITY
5 0.03 0.03 0.19 0

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
831106 735 10.61 44N15.93 114W 5.08 5.82 2.54 12 11 145 1 0.05 0.4 0.4 8 AIC 0.45 10 20 0.00 0.04 0 0.0 0.0 9 2.5 0.4
SE OF DRIG = 0.027 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM OIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTICAL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
849 3.4 301 149 0.001P 4 -10.61 1.24 -11.85 0.000 12.70 2.09 2.18 -0.08 0.757 734 7
943 5.9 98 133 12.151P 1.54 1.53 0.01 1.081 13.30 2.69 2.67 0.02 0.757 734 7
844 10.8 35 117 12.851P 2.24 2.25 -0.01 1.081 14.59 3.98 3.94 0.04 0.757 734 7
815 13.4 224 112 13.391PC 2.78 2.68 0.10 1.081 15.65 5.04 4.69 0.35 0.000 734 39 2.47
816 13.5 130 111 13.241PD 2.63 2.70 -0.07 0.000 14.95 4.38 4.72 -0.34 0.000 734 27 2.17
81 15.4 9 109 13.631PC 3.02 3.01 0.01 1.081 16.24 5.63 5.27 0.36 0.000 734 34 2.37
84 20.3 112 104 14.41EPC 3.80 3.85 -0.05 1.081 17.89 7.28 6.74 0.54 0.000 734 30 2.27
812 31.9 177 65 16.41PC 5.80 5.85 -0.05 1.081 24.51 13.90 13.79 0.12 0.000 734 72 3.07
811 42.2 148 65 18.11EP 7.50 7.52 -0.02 1.081 734 60 2.97
85 44.4 130 65 18.531PC 7.92 7.88 0.04 1.081 734 77 3.17
86 52.4 129 65 20.03EP 4 9.42 9.19 0.23 0.000 734 24 2.17
89 55.5 141 65 20.29EP 0 9.68 9.69 -0.01 1.061 734 55 2.87

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E Z SE N NE SW
AVE. OF END POINTS 0.17 0.1 0.1 0.1 0.1 0.1

83/11/ 6 -----BEGIN-----BEGIN-----83/11/ 6 7/47

HORIZONTAL SE = 0.58 SE = 0.76 VERTICAL SE = 1.17
AZ = -46. AZ = 44. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831106 747 4.89 44N13.00 114W 1.92 7.89 2.23 9 15 104 1 0.06 0.8 1.2 8 A18 0.08 10 13 0.00 0.05 0 0.0 0.0 6 2.2 0.2
SE OF ORIG = 0.049 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM DIST AZM AIM PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAX R FMP FMAG
816 7.0 118 133 6.81IPD 1.92 1.90 0.02 1.034 8.21 3.32 3.33 -0.01 0.724 735 30 2.27
815 14.2 252 108 7.84IPC 2.95 2.91 0.04 1.034 735 22 1.97
84 14.8 99 106 7.87IPC 2.98 3.00 -0.02 1.034 735 33 2.37
81 20.7 355 97 8.84IPD 3.95 3.96 -0.01 1.034 735 24 2.07
812 26.5 185 94 9.66IP 4.77 4.89 -0.12 1.034 735 7
811 35.4 150 92 11.34EPC 6.45 6.32 -0.13 1.034 735 40 2.57
85 37.7 128 92 11.55IPC 6.66 6.70 -0.04 1.034 735 7
86 45.8 128 92 18.61EP 4 13.72 8.01 5.71 0.000 735 7
39 48.7 141 91 13.40EP 8.51 8.48 0.03 1.034 735 38 2.57

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW NE E N Z SW SE
AVE. OF END POINTS 0.11 0.17 0.17 0.18 0.22 0.27 0.28

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.06 0.05 0.20 0

83/11/ 6 -----BEGIN-----BEGIN-----83/11/ 6 7/53

HORIZONTAL SE = 0.62 SE = 0.70 VERTICAL SE = 1.80
AZ = -96. AZ = -6. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831106 753 25.42 44N13.91 114W 2.34 9.56 2.60 10 16 111 1 0.07 0.7 1.8 8 A18 0.05 10 14 0.00 0.05 0 0.0 0.0 8 2.6 0.4
SE OF ORIG = 0.073 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STM DIST AZM AIM PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAX R FMP FMAG
816 8.4 127 134 27.67IPD 2.25 2.25 0.00 1.031 30.74 5.32 5.29 0.03 0.722 235 42 2.52
815 14.2 245 117 28.44IPC 3.02 3.03 -0.02 1.031 30.87 5.45 5.68 -0.23 0.000 235 36 2.42
44 15.7 104 114 28.64IPC 3.22 3.25 0.01 1.031 32.14 6.72 6.56 0.17 0.000 235 42 2.52
31 19.0 356 108 29.17IPC 5.09 5.19 -0.10 1.031 36.48 11.06 11.59 -0.53 0.000 235 35 2.42
812 28.2 184 100 30.51IPC 6.68 6.62 0.06 1.031 235 2
811 37.1 150 96 32.10EPD 6.91 6.96 -0.04 1.031 235 66 3.02
45 39.2 129 96 32.33IPC 8.18 8.26 -0.08 1.031 235 82 3.22
86 47.2 129 94 33.60EP 8.91 8.76 0.16 1.031 235 20 2.02
89 50.3 142 94 34.33EPC 8.91 8.76 0.16 1.031 235 70 3.12

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E NE Z N SW
AVE. OF END POINTS 0.11 0.12 0.14 0.17 0.21 0.21 0.21

83/11/ 6 10/ 4 BEGIN-----BEGIN-----83/11/ 6 10/ 4

HORIZONTAL SE = 0.91 SE = 1.07 VERTICAL SE = 1.89 QUALITY = A
AZ = -106. AZ = -16.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODM NF AVFM SDFM
831106 10 4 36.65 43W53.73 113W45.54 11.72 2.63 17 15 186 1 0.11 1.1 1.9 C 810 1.32 10 24 0.00 0.09 0 0.0 0.0 8 2.6 0.4
SE OF ORIG = 0.117 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR=0-TT0B-TTCAL-EDLY=P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAX R FMP FMAG
811 6.5 322 149 38.961P 2.31 2.35 -0.03 1.037 41.44 4.79 4.51 0.29 0.000 236 74 3.02
89 8.9 105 140 39.341PC 2.69 2.58 0.12 1.037 42.46 5.81 5.75 0.06 0.726 236 85 3.12
85 14.8 32 124 38.911PC 3.26 3.29 -0.02 1.037 -0.09 1.037 42.46 5.81 6.15 -0.34 0.000 236 90 3.22
86 16.5 62 120 40.071PC 3.42 3.51 -0.07 1.037 43.50 6.85 7.22 -0.36 0.000 236 28 2.22
BRPI 20.7 312 114 40.70EPC 4.05 4.12 -0.07 1.037 44.95 8.30 8.62 -0.32 0.000 236 22 2.02
812 25.9 291 108 41.451PC 4.80 4.93 -0.12 1.037 0.04 1.037 47.56 10.91 10.88 0.04 0.726 236 2
4BAI 26.9 345 107 41.75EPC 5.10 5.07 -0.03 1.037 46.68 10.03 11.37 -1.33 0.000 236 42 2.62
LSGS 29.0 7 105 42.021PC 5.37 5.40 -0.12 1.037 49.94 13.29 14.57 -1.27 0.000 236 2
84 34.2 348 102 42.741PC 6.09 6.21 -0.03 1.037 0.24 1.037 0.24 1.037 236 2
816 36.0 334 102 43.111PC 6.46 6.49 -0.11 1.037 49.94 13.29 14.57 -1.27 0.000 236 2
DSPI 36.4 351 101 43.11EPC 6.46 6.57 0.74 0.000 0.22 1.037 0.22 1.037 236 2
NWSI 45.1 332 98 45.35EPO4 8.70 7.96 0.22 1.037 0.24 1.037 0.24 1.037 236 2
815 47.4 312 98 45.19EPO 8.54 8.32 0.24 1.037 -0.11 1.037 0.04 1.037 236 38 2.52
8SU3 48.9 334 98 45.47EPC 8.82 8.58 0.04 1.037 0.04 1.037 236 36 2.52
81 61.1 337 96 47.081PC 10.43 10.54 236 2
GCI 63.0 351 95 47.53EPO 10.88 10.84 236 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE NE N SW E NW
AVE. OF END POINTS 0.36 0.42 0.43 0.52 0.57 0.67 0.70

NUMBER RMS MIN ORMS AVE ORMS QUALITY
17 0.11 0.32 0.54 A

-----END-----END-----END-----END-----

83/11/ 6 13/16 BEGIN-----BEGIN-----83/11/ 6 13/16

HORIZONTAL SE = 0.52 VERTICAL SE = 1.25 QUALITY = A
AZ = -46. AZ = 46.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOKM NF AVFM SDFM
931106 1316 6.88 44N 8.18 113W57.68 10.77 2.30 19 11 79 1 0.09 0.5 1.2 A AIA 1.47 10 25 0.00 0.07 0 0.0 0.0 12 2.3 0.4
SE OF ORIG = 0.055 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-0-TTDB-TTICAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XWAG R FMP FMAG
816 5.6 5 150 8.991PD 2.11 2.14 -0.03 1.033 11.50 4.62 4.39 0.23 0.000 237 33 2.32
84 11.2 53 130 9.581PD 2.59 2.51 -0.08 1.033 11.59 4.71 4.77 -0.06 0.723 237 30 2.22
MSUI 11.7 12 128 9.651PD 2.77 2.78 -0.01 1.033 11.95 5.07 5.18 -0.11 0.000 237 43 2.52
BRPI 13.0 177 125 9.821PC 2.94 2.96 -0.02 1.033 12.26 5.38 5.37 0.01 0.000 237 19 1.82
JSPI 13.8 49 123 9.911PD 3.03 3.07 -0.04 1.033 13.77 6.89 6.86 0.03 0.723 237 2 2
MSUI 14.0 340 122 9.901PD 3.02 3.09 -0.07 1.033 16.58 9.70 9.80 -0.10 0.000 237 31 2.32
MSUI 18.0 343 115 10.731PD 3.85 3.65 0.20 1.033 17.81 10.93 11.33 -0.40 0.000 237 37 2.52
MSUI 19.2 204 113 10.751PC 3.87 3.85 0.02 1.033 18.72 11.84 11.96 -0.12 0.000 237 19 1.92
J15 19.7 284 112 10.801PC 3.92 3.92 0.00 1.033 237 60 2.92
LSGS 19.9 84 112 10.961PD 4.08 3.96 0.12 1.033 237 32 2.32
811 24.8 151 106 11.481P 4.60 4.70 -0.10 1.033 237 19 1.82
81 30.5 346 102 12.431PC 5.27 5.19 -0.08 1.033 237 69 3.02
GCI 36.0 10 99 13.261PD 6.38 6.48 -0.05 1.033 237 31 2.32
86 36.0 122 99 13.511PD 6.63 6.48 -0.10 1.033 237 37 2.52
89 38.2 139 99 13.531EP 6.65 6.83 -0.15 1.033 237 19 1.92
89 38.2 139 99 13.531EP 6.65 6.83 -0.18 1.033 237 60 2.92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW E N SE
AVE. OF END POINTS 0.29 0.64 0.75 0.83 0.91 0.94 0.94

NUMBER RMS MIN DRMS AVE DRMS QUALITY
19 0.09 0.33 0.80 A

83/11/ 6 14/49 BEGIN-----BEGIN-----83/11/ 6 14/49

HORIZONTAL SE = 0.54 SE = 0.68 VERTICAL SE = 1.00 QUALITY = A
AZ = -36. AZ = -126.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOKM NF AVFM SDFM
831106 1449 59.92 44N12.53 114W 2.72 10.42 3.00 30 6 76 1 0.13 0.7 1.0 A AIA 0.42 10 59 0.00 0.09 0 0.0 0.0 9 3.0 0.3
SE OF ORIG = 0.054 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
SYN DIST AZM AIN PSEC PRMKTCDR=0-TYD9-TTCAL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
ANPI 3.9 126 158 2.00 P00 2.08 1.96 0.12 1.036 0.00 0.08 3.43 -3.36 0.000 238 2
NWSI 5.5 21 150 1.92 P00 2.00 2.08 -0.08 1.036 0.00 0.08 3.64 -3.56 0.000 238 2
843 6.1 26 147 2.07 P0 2.15 2.13 -0.02 1.036 3.74 3.82 3.73 0.09 0.725 238 2
816 7.6 109 140 2.19 P0 2.27 2.28 -0.01 1.036 0.00 0.08 4.16 -4.08 0.000 238 50 2.62
WSUI 8.6 83 137 2.20 P00 2.28 2.38 0.00 1.036 0.00 0.08 4.29 -4.21 0.000 238 2
BSUI 9.2 8 134 2.61 P00 2.69 2.45 0.24 1.036 0.00 0.08 4.39 -4.31 0.000 238 2
NSUI 9.7 69 133 2.45 P00 2.53 2.51 0.02 1.036 10.14 10.22 5.10 5.12 0.000 238 64 2.32
815 12.9 255 124 2.91 P0 2.99 2.91 0.07 1.036 0.00 0.08 5.56 -5.78 0.000 238 2
M-2 14.8 110 119 3.18 P00 3.26 3.18 0.17 -0.09 1.036 5.29 5.37 5.72 -0.35 0.000 238 2
844 15.5 11 118 3.01 P 1 3.09 3.27 -0.18 0.583 -0.04 1.036 5.80 5.88 6.12 -0.25 0.000 238 70 2.92
84 15.8 95 117 3.19 P0 3.27 3.31 0.03 1.036 0.00 0.08 6.45 -6.37 0.000 238 2
DSPI 17.1 86 115 3.45 P00 3.53 3.50 0.09 1.036 0.00 0.08 7.21 -7.13 0.000 238 2
W8AI 18.3 119 113 3.70 P00 3.78 3.69 0.01 0.000 0.00 0.08 7.23 -7.68 0.000 238 2
CGI 21.1 57 109 4.05 P-4 4.13 4.12 0.00 1.036 6.65 6.73 7.52 -0.79 0.000 238 2
M-1 21.2 137 109 4.27 P0 4.35 4.13 0.30 -0.09 1.036 0.00 0.08 8.29 -8.21 0.000 238 2
81 21.6 358 108 4.02 P0 4.10 4.18 0.03 1.036 8.32 8.40 8.84 -0.44 0.000 238 2
8RPI 22.3 160 108 4.25 P0 4.33 4.30 0.04 1.036 0.00 0.08 9.70 -9.62 0.000 238 2
8RCI 25.1 182 105 4.70 P0 4.78 4.74 0.01 1.036 0.00 0.08 9.73 -9.65 0.000 238 2
812 25.6 183 104 4.73 P0 4.81 4.80 0.02 1.036 0.00 0.08 10.65 -10.57 0.000 238 2
LSGS 27.2 103 103 4.99 P-0 5.07 5.05 -0.02 1.036 11.78 11.86 11.89 -0.03 0.725 238 84 3.22
LCRI 30.2 128 101 5.45 P 0 5.53 5.54 -0.13 1.036 13.82 13.90 14.16 -0.27 0.000 238 32 2.42
8CI 30.3 25 101 5.35 P0 5.43 5.56 -0.06 1.036 14.10 14.18 14.90 -0.72 0.000 238 2
CLI 33.6 282 100 5.95 P 0 6.03 6.09 -0.07 1.036 0.00 0.08 27.73 -27.65 0.000 238 70 3.22
811 35.2 147 99 6.19 P 6.27 6.34 -0.02 1.036 0.00 0.08 31.92 -31.84 0.000 238 79 3.42
85 38.0 126 98 6.69 P 6.77 6.79 -0.20 1.036 36.56 36.64 36.06 0.58 0.000 238 84 3.52
86 46.1 126 96 7.82 P 7.90 8.09 -0.27 1.036 44.88 44.96 44.90 0.06 0.000 238 2
89 48.7 140 96 8.17 P 8.25 8.51 -0.36 1.036 0.00 0.08 54.38 -54.30 0.000 238 2
MPI 93.9 126 92 16.13 P 0 16.21 15.85 0.27 1.036 0.00 0.08 54.38 -54.30 0.000 238 2
JGI 110.1 97 65 18.43 P 0 18.51 18.24 0.5100 0.00 0.00 54.38 -54.30 0.000 238 2
C13 126.2 135 65 21.04 P 0 21.12 20.60 1.0640 0.00 0.00 54.38 -54.30 0.000 238 2
G8I 160.6 99 65 26.64 P 0 26.72 25.66 0.3200 0.00 0.00 54.38 -54.30 0.000 238 2
TMI 198.4 120 50 31.32 P 0 31.40 31.07 0.3200 0.00 0.00 54.38 -54.30 0.000 238 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E SE Z SW NE N
AVE. OF END POINTS 0.10 0.10 0.12 0.12 0.13 0.13 0.14

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.13 0.06 0.12 0

-----END-----END-----END-----

83/11/ 6 16/ 1 BEGIN-----BEGIN-----83/11/ 6 16/ 1

HORIZONTAL SE = 0.51 VERTICAL SE = 1.14
AZ = -48. AZ = 42. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831106 16 1 16.59 44N 6.98 113W56.29 10.95 2.50 10 10 80 1 0.05 0.5 1.1 A AIA 0.07 10 14 0.00 0.04 0 0.0 0.0 7 2.5 0.4
SE OF ORIG = 0.046 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-O-TTOTH-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTCAL S-RES S-WT ANX PR XMAG R FMP FMAG
316 8.0 350 141 18.97IPC 2.38 2.38 0.00 1.031 20.55 3.96 4.17 -0.21 0.000 239 29 2.22
84 11.4 39 130 19.43IPC 2.84 2.77 0.07 1.031 21.40 4.81 4.85 -0.04 0.722 239 40 2.52
312 18.2 213 115 20.30IPC 3.71 3.69 0.02 1.031 239 2
811 22.0 152 110 20.87IPC 4.28 4.27 0.01 1.031 239 75 3.02
315 22.1 208 110 20.84IPC 4.25 4.30 -0.05 1.031 22.44 5.85 7.52 -1.67 0.000 239 34 2.32
85 25.3 118 106 21.30IPC 4.79 4.78 0.01 1.031 24.08 7.49 8.36 -0.87 0.000 239 2
81 33.1 344 101 22.64IPC 6.05 6.03 0.02 1.031 239 35 2.42
86 33.3 120 101 22.55IPC 5.96 6.06 -0.10 1.031 239 22 2.02
89 35.3 139 100 23.02IP 6.43 6.38 0.06 1.031 27.82 11.23 11.16 0.07 0.000 239 78 3.12

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE NE Z N SW E
AVE. OF END POINTS 0.03 0.13 0.18 0.19 0.20 0.23 0.28

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.05 0.00 0.18 D

83/11/ 6 16/13 BEGIN-----BEGIN-----83/11/ 6 16/13

HORIZONTAL SE = 0.43 VERTICAL SE = 1.89
AZ = -31. AZ = -121. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831106 1613 27.59 44N 1.87 113W56.92 11.63 2.18 9 17 106 1 0.05 0.6 1.9 8 AIB 0.15 10 14 0.00 0.04 0 0.0 0.0 6 2.2 0.2
SE OF ORIG = 0.082 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-O-TTOTH-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOT TTCAL S-RES S-WT ANX PR XMAG R FMP FMAG
812 10.7 237 134 30.33IPC 2.74 2.76 -0.02 1.034 33.90 6.31 6.35 -0.04 0.724 240 24 2.02
811 15.0 131 123 30.93IPC 3.34 3.30 0.04 1.034 34.55 6.96 7.03 -0.07 0.000 240 26 2.12
916 17.3 358 119 31.23IPC 3.64 3.63 0.01 1.034 240 2
94 20.1 23 114 31.60IPC 4.01 4.02 -0.01 1.034 240 27 2.22
85 23.2 96 110 32.20IPC 4.61 4.51 0.11 1.034 35.84 8.25 8.62 -0.37 0.000 240 47 2.72
915 26.0 309 108 32.54EP 4.95 4.93 0.03 1.034 37.02 9.43 9.57 -0.14 0.000 240 23 2.02
89 29.5 126 105 33.00EP 5.41 5.47 -0.06 1.034 40.93 13.34 13.10 0.24 0.000 240 23 2.12
86 30.6 104 104 33.15IP 5.56 5.64 -0.07 1.034
81 42.1 348 99 35.33EPD4 7.74 7.49 0.26 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE NE Z N SW E
AVE. OF END POINTS 0.12 0.13 0.18 0.18 0.24 0.25 0.26

83/11/ 6 16/28 -----BEGIN-----BEGIN-----83/11/ 6 16/28

HORIZONTAL SE = 0.51 SE = 0.61 VERTICAL SE = 0.76
AZ = -28. AZ = -118. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831106 1628 21.67 44N 8.80 113456.29 6.51 2.38 8 21 73 1 0.05 0.6 0.8 A A1A 0.15 10 11 0.00 0.05 0 0.0 0.0 8 2.4 0.4
SE OF ORIG = 0.031 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR-0-TT08-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
316 4.7 343 143 23.111PD 1.44 1.47 -0.04 1.000 241 30 2.12 241 30 2.12
34 9.0 52 124 23.761P 2.09 2.04 -0.05 1.000 241 241 2
312 21.1 208 106 25.641PC 3.97 4.01 -0.05 1.000 241 241 2
315 21.3 279 106 25.77EPD 4.10 4.05 0.05 1.000 241 241 2
311 25.0 156 65 26.451PD 4.78 4.68 0.10 1.000 241 241 2
31 27.0 125 65 26.631PC 4.96 5.01 -0.05 1.000 241 241 2
31 29.9 362 65 27.13EP 5.46 5.48 -0.02 1.000 241 241 2
36 35.1 145 65 28.281P 4 6.81 6.32 0.29 0.000 241 16 1.72
39 37.9 143 65 28.42EPC 6.75 6.78 -0.03 1.000 241 44 2.62

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE N E SE SW NW
AVE. OF END POINTS 0.11 0.18 0.22 0.26 0.29 0.30 0.34

NUMBER RMS MIN ORMS AVE ORMS QUALITY D
4 0.05 0.06 0.25

83/11/ 6 17/21 -----BEGIN-----BEGIN-----83/11/ 6 17/21

HORIZONTAL SE = 0.23 SE = 0.32 VERTICAL SE = 0.53
AZ = -63. AZ = 27. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831106 1721 3.44 44N12.54 114W 0.74 11.55 2.55 9 15 105 1 0.03 0.3 0.5 B A1B 0.09 10 13 0.00 0.01 0 0.0 0.0 7 2.5 0.4
SE OF ORIG = 0.027 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR-0-TT08-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
316 5.2 118 154 5.661PD 2.22 2.22 0.01 1.034 242 242 2
34 13.1 96 127 6.481PD 3.04 3.05 0.00 1.034 242 55 2.72
315 15.5 257 122 6.801PC 3.36 3.36 0.00 1.034 242 33 2.32
31 21.8 351 112 7.72EPD 4.28 4.28 0.00 1.034 242 27 2.12
312 25.9 189 108 8.351PC 4.91 4.90 0.01 1.034 242 60 2.92
35 35.9 128 101 9.981P 6.54 6.49 0.05 1.034 242 62 2.92
36 44.0 128 98 11.221PC 7.78 7.73 0.00 1.034 242 21 2.02
39 47.0 142 98 11.66EPC 8.22 8.27 -0.05 1.034 242 55 2.92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E NW N NE Z SE SW
AVE. OF END POINTS 0.13 0.14 0.18 0.22 0.27 0.29 0.36

[illegible]

QUALITY EVALUATION

83/11/ 6 21/11 BEGIN-----BEGIN-----83/11/ 6 21/11

HORIZONTAL SE = 0.53 SE = 1.32 VERTICAL SE = 1.56
AZ = -31. AZ = -121. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERH ERZ Q SOD ADJ IN NR AVR AIR NM AVXM SODM NF AVFM SODM
831106 2111 55.16 44N 8.57 113M58.45 9.32 4.04 24 10 123 1 0.19 1.3 1.6 8 818 0.10 10 58 0.00 0.15 0 0.0 0.0 3 4.0 0.3
SE OF ORIG = 0.079 4 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMKTCDOR=0-TT0B-TTCL=DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT0B TTCL S-RES S-WT AMX PR XMAG R PMP FMAG
042 2.2 3 166 0.00 P 4 -55.16 1.71 -56.87 0.00 -0.03 1.096 58.46 3.30 2.98 0.31 0.000
ANPI 5.6 333 146 57.13 P00 1.97 1.94 0.03 1.096 0.00-55.16 3.40-58.56 0.000
M-2 8.5 75 133 57.70 PC0 2.54 2.25 0.12 1.096 0.00-55.16 3.93-59.39 0.000
837 10.1 149 127 57.63 PC0 2.47 2.44 0.03 1.096 59.59 4.43 4.26 0.16 0.767
M8A1 10.4 98 126 57.90 PC0 2.74 2.48 0.26 1.096 0.00-55.16 4.33-59.50 0.000
M-1 12.0 133 121 58.00 P00 2.84 2.70 0.16 1.096 0.00-55.16 4.72-60.41 0.000
MWS1 13.0 343 119 57.99 P00 2.83 2.83 0.00 1.096 0.00-55.16 4.95-60.12 0.000
943 13.1 347 119 58.06 PC0 2.90 2.85 0.05 1.096 60.49 5.33 4.99 0.34 0.000
8RPI 13.8 173 117 58.17 PC2 3.01 2.94 0.06 0.274 61.12 5.96 5.15 0.81 0.000
DSPI 14.2 53 116 58.13 PC0 2.97 3.00 -0.03 1.096 0.00-55.16 5.24-60.41 0.000
041 16.0 198 112 0.00 P 4 -55.16 3.28 -58.44 0.000 60.87 5.71 5.73 -0.03 0.000
8SU3 17.0 345 110 58.72 P00 3.56 3.43 0.13 1.096 0.00-55.16 6.00-61.16 0.000
8RCI 18.9 200 107 58.90 PC0 3.74 3.72 0.02 1.096 0.00-55.16 6.50-61.67 0.000
849 19.4 323 107 58.81 P00 3.65 3.79 -0.14 1.096 61.74 6.58 6.63 -0.05 0.767
LSGS 20.9 86 105 59.30 PC2 4.14 4.02 0.12 0.274 0.00-55.16 7.03-62.20 0.000
LCRI 21.3 122 104 59.08 P00 3.92 4.08 -0.17 1.096 0.00-55.16 7.15-62.31 0.000
A51 21.4 123 104 59.16 PC0 4.00 4.09 -0.09 1.096 62.16 7.00 7.16 -0.16 0.000
CGI 22.4 33 103 59.60 PC0 4.44 4.26 0.17 1.096 0.00-55.16 7.46-62.62 0.000
838 29.2 121 98 60.04 PC0 4.88 5.35 -0.48 1.096 64.42 9.26 9.37 -0.11 0.000
GCI 35.5 12 96 1.29 PC0 6.13 6.36 0.23 1.096 0.00 4.84 11.13 -6.29 0.000
MOCI 44.8 114 94 2.74 P00 7.58 7.86 -0.26 1.096 0.00 4.84 13.75 -8.91 0.000
MPI 85.1 124 92 9.76 P00 14.60 14.41 0.18 1.096 0.00 4.84 25.22-20.39 0.000
JGI 104.0 93 65 12.72 P 0 17.56 17.41 0.14 1.096 0.00 4.84 30.47-25.64 0.000
C19 117.0 135 65 14.82 P00 19.66 19.32 0.33 1.096 27.15 31.99 33.81 -1.83 0.000
G81 154.0 96 65 20.23 P 0 25.07 24.76 0.31 0.000 0.00 4.84 43.33-38.49 0.000
TMI 190.1 119 65 23.18 P00 30.02 30.06 -0.05 0.000 46.04 50.88 52.61 -1.74 0.000
IMW 245.0 96 50 33.09 P00 37.93 37.00 0.92 0.000 0.00 4.84 64.76-59.92 0.000
MPI 251.4 152 50 34.58 P00 39.42 37.81 1.61 0.000 0.00 4.84 66.16-61.32 0.000
MLI 279.1 147 50 38.52 P 0 43.36 41.27 2.08 0.000 0.00 4.84 72.23-67.39 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW Z N SE NE E NW
AVE. OF END POINTS 0.02 0.02 0.04 0.06 0.07 0.10 0.11

NUMBER 8
RMS MIN ORMS AVE ORMS QUALITY
0.19 0.00 0.07 0

113 3.7
140 4.0
156 4.4

83/11/ 6 21/19 BEGIN-----BEGIN-----83/11/ 6 21/19

HORIZONTAL SE = 0.67 SE = 1.33 VERTICAL SE = 1.25
AZ = -11. AZ = -101. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERW ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SOXM MF AVFM SOFM
231106 2119 56.46 44N 8.97 113W58.88 8.83 3.11 24 9 174 1 0.18 1.3 1.3 C BIC 0.07 10 54 0.00 0.15 0 0.0 0.0 3 3.1 0.1
SE OF ORIG = 0.085 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYM DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCLAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT ANX PR XMAG R FMP FMAG
942 1.6 26 169 58.16 P00 1.70 1.61 -0.09 1.131 0.00-56.46 3.79-60.25 0.000 59.48 3.02 2.81 0.21 0.792
M50I 8.3 24 132 58.30 P 0 1.84 2.17 -0.33 1.131 0.00-56.46 3.79-60.25 0.000
M-2 8.9 80 129 59.00 PC0 2.54 2.24 0.13 1.131 0.00-56.46 3.92-60.67 0.000
MSUI 10.7 22 123 58.96 PD3 2.50 2.48 0.02 0.071 0.00-56.46 4.34-60.80 0.000
337 11.1 149 122 58.97 P00 2.51 2.32 -0.01 1.131 60.84 4.38 4.41 -0.03 0.792
MBAI 11.1 102 122 59.18 PC0 2.72 2.53 0.19 1.131 0.00-56.46 4.43-60.89 0.000
MWSI 12.1 345 119 59.11 P00 2.65 2.67 -0.02 1.131 61.41 4.95 4.67 0.28 0.000
R-3 12.3 349 118 59.24 P00 2.78 2.69 0.09 1.131 61.37 4.91 4.70 0.21 0.000
M-1 13.0 133 117 59.60 P00 3.14 2.79 0.30 0.06 1.131 0.00-56.46 4.87-61.86 0.000
DSPI 14.2 57 113 59.38 PC3 2.92 2.98 -0.06 0.071 0.00-56.46 5.21-61.67 0.000
8RPI 14.6 171 113 59.20 PC0 2.74 3.04 -0.30 1.131 0.00-56.46 5.32-61.78 0.000
8RPI 14.6 171 113 59.52 PC0 3.06 3.04 0.02 1.131 0.00-56.46 5.32-61.78 0.000
8SUI 16.1 347 110 59.91 P00 3.45 3.27 0.18 1.131 0.00-56.46 5.72-62.18 0.000
LSGS 21.4 88 102 60.58 P00 4.12 4.09 0.03 1.131 2.22 5.76 5.83 -0.07 0.792
CGI 22.1 35 101 60.40 P-0 3.94 4.20 -0.25 1.131 0.00-56.46 7.34-63.80 0.000
LCMI 22.2 123 101 0.45 P 4 3.99 4.22 -0.23 0.000 0.00 3.54 7.38 -3.84 0.000
8S1 22.3 124 101 60.52 PC0 4.06 4.23 -0.17 1.131 63.61 7.15 7.40 -0.24 0.000
CGI 34.9 13 95 62.64 PC0 6.18 6.26 -0.08 1.131 0.00-56.46 10.95-67.41 0.000
MCI 45.6 114 93 64.11 P00 7.65 8.00 -0.35 1.131 69.71 13.25 14.00 -0.75 0.000
MPI 86.0 124 91 11.22 P 0 14.76 14.55 0.00 3.54 25.47-21.93 0.000
JGI 104.6 93 65 14.08 P 0 17.62 17.54 0.00 3.54 30.69-27.15 0.000
CIB 118.0 135 65 16.29 P 0 19.83 19.49 0.34 1.131 0.00 3.54 34.12-30.58 0.000
SBI 154.6 97 65 21.66 P 0 25.20 24.89 0.00 3.54 43.56-40.02 0.000
TMI 190.9 119 65 26.63 P 0 30.17 30.23 -0.0600.000 0.00 3.54 52.90-49.36 0.000
IMW 245.6 97 50 34.46 P 0 38.00 37.14 0.00 3.54 64.99-61.45 0.000
MPI 252.3 152 50 36.15 P 0 39.69 37.97 1.7200.000 0.00 3.54 66.46-62.91 0.000

56 3.0
60 3.1
65 3.2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SW NE NW SE N
AVE. OF END POINTS 0.52 0.55 0.55 0.67 0.72 0.85 0.95

NUMBER RMS MIN DRMS AVE DRMS QUALITY
24 0.18 0.36 0.71 A

83/11/ 7 1/ 6 -----BEGIN-----BEGIN-----83/11/ 7 1/ 6

HORIZONTAL SE = 0.39 SE = 0.67 VERTICAL SE = 1.48
AZ = -44. AZ = -134. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SDFM
831107 1 6 45.55 44N 8.46 113M58.24 10.50 2.41 10 19 81 1 0.06 0.7 1.5 A AIA 0.16 10 10 0.00 0.05 0 0.0 0.0 8 2.4 0.4
SE OF ORIG = 0.054 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYM DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAX R FMP FMAX
016 5.3 14 151 47.631PO 2.08 2.07 0.01 1.031 244 54 2.72
94 11.5 58 128 48.341PO 2.79 2.74 0.05 1.031 244 45 2.62
015 18.9 283 112 49.361PC 3.81 3.78 0.03 1.031 244 58 2.92
312 19.4 202 111 49.441P 3.89 3.86 0.03 1.031 244 50 2.62
017 20.7 327 110 49.541PC 3.94 3.96 -0.08 1.031 244 30 2.22
05 28.9 121 102 50.831P 5.28 5.33 -0.06 1.031 244 58 2.82
01 29.8 347 102 51.15EPD 5.60 5.49 0.11 1.031 244 18 1.82
06 36.9 122 98 52.13EP 6.58 6.62 -0.04 1.031 244 20 1.92
99 39.1 139 98 52.54EP 6.99 6.97 0.02 1.031 244 35 2.42

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH M Z NE E SW SE NW
AVE. OF END POINTS 0.13 0.19 0.19 0.20 0.21 0.21 0.25

NUMBER RMS MIN RMS AVE RMS QUALITY
4 0.06 0.08 0.20 0

83/11/ 7 4/13 -----BEGIN-----BEGIN-----83/11/ 7 4/13

HORIZONTAL SE = 0.52 SE = 0.71 VERTICAL SE = 1.58
AZ = -45. AZ = 45. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SDFM
831107 413 38.41 44N13.48 114M 1.92 9.95 2.52 10 14 107 1 0.06 0.7 1.6 B AIB 0.06 10 11 0.00 0.05 0 0.0 0.0 8 2.5 0.2
SE OF ORIG = 0.063 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYM DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAX R FMP FMAX
016 7.4 124 140 40.831PO 2.24 2.20 0.04 1.000 245 67 2.92
017 10.3 321 129 41.061PO 2.45 2.53 -0.08 1.000 245 44 2.52
015 14.5 249 118 41.761PC 3.15 3.09 0.06 1.000 245 53 2.72
04 15.0 102 117 41.741PC 3.13 3.16 -0.03 1.000 245 50 2.62
31 19.9 355 109 42.54EPD 3.93 3.90 -0.03 1.000 245 29 2.22
012 27.4 185 101 43.601PO 4.99 5.08 -0.10 1.000 245 43 2.62
011 36.1 150 97 45.191P 6.58 6.48 0.10 1.000 245 2
35 38.2 129 97 45.431PC 6.82 6.82 0.00 1.000 245 23 2.12
06 46.3 128 95 46.681P 8.07 8.12 -0.05 1.000 245 40 2.62
09 49.4 142 95 47.24EPD 8.63 8.62 0.01 1.000

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH SE NW E NE N SW Z
AVE. OF END POINTS 0.07 0.10 0.14 0.18 0.18 0.25 0.25

83/11/ 7 9/233 BEGIN-----BEGIN-----83/11/ 7 9/233

SE = 0.37 HORIZONTAL SE = 0.62 VERTICAL
AZ = -32. AZ = -122. SE = 0.79 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SORM MF AVFM SDFM
831107 933 31.21 44N10.28 113M58.11 8.53 3.24 37 4 73 1 0.14 0.6 0.8 A AIA 0.20 10 67 0.00 0.10 0 0.0 0.0 8 3.2 0.3
SE OF ORIG = 0.041 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TION-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
942 1.0 198 172 32.72EPO 1.51 1.54 -0.04 1.065 33.77 2.56 2.70 -0.14 0.745 246 2
816 2.0 32 165 32.82IP 1.61 1.57 0.03 1.065 0.00-31.21 2.90-34.11 0.000 246 2
AMP1 3.5 302 155 32.90 P00 1.69 1.66 0.03 1.065 0.00-31.21 3.22-34.44 0.000 246 2
MSUI 5.7 25 142 33.08 P00 1.87 1.84 0.02 1.065 0.00-31.21 3.63-35.55 0.000 246 2
W-2 7.8 97 132 33.52 PC0 2.31 2.08 0.06 1.065 0.00-31.21 3.69-34.90 0.000 246 2
NSUI 8.1 21 131 33.36 P00 2.15 2.11 0.04 1.065 0.00-31.21 4.16-35.37 0.000 246 2
04 10.0 74 124 33.53IPC 2.32 2.35 -0.03 1.065 35.45 4.24 4.16 0.07 0.745 246 2
MSUI 10.2 336 123 33.56 P00 2.35 2.37 0.03 1.065 0.00-31.21 4.63-35.84 0.000 246 2
543 10.2 340 123 33.69EPO 2.48 2.38 0.10 1.065 36.05 4.84 4.78 0.05 0.745 246 2
MSAI 10.9 115 121 33.90 PC0 2.69 2.48 0.21 1.065 0.00-31.21 5.15-36.89 0.000 246 2
JSPI 12.1 64 117 33.82 PC0 2.61 2.64 -0.04 1.065 0.00-31.21 5.80-37.10 0.000 246 2
837 12.8 158 116 34.00IPC 2.79 2.73 0.05 1.065 37.05 5.84 5.98 -0.15 0.745 246 2
M-1 14.1 143 112 34.33 PC0 3.12 2.94 0.16 1.065 0.00-31.21 6.61-37.03 0.000 246 2
8RPI 16.9 176 107 34.74 PC0 3.53 3.36 -0.12 1.065 37.51 6.30 6.88 -0.58 0.000 246 2
849 17.3 315 106 0.00IP 4 -31.21 3.42 -34.63 0.000 37.00 5.79 7.32 -1.54 0.000 246 2
817 18.1 321 104 34.80IPO 3.59 3.56 0.02 1.065 0.00-31.21 7.53-38.74 0.000 246 2
815 18.6 272 104 34.75IPC 3.54 3.63 -0.10 1.065 38.67 7.46 7.56 -0.10 0.745 246 2
CGI 19.5 37 103 34.97 PC2 3.76 3.78 0.02 0.266 0.00-31.21 10.21-41.43 0.000 246 2
LSGS 20.5 95 101 35.10 PC0 3.89 3.93 -0.04 1.065 0.00-31.21 11.38 14.03 -2.65 0.000 246 2
8RCI 22.1 198 100 35.55 PC0 4.34 4.10 0.15 1.065 60.96 29.75 30.51 -0.76 0.000 246 2
812 22.6 199 99 35.55IPO 4.34 4.27 0.06 1.065 65.75 34.54 34.41 0.13 0.000 246 2
LCMI 22.8 129 99 35.22 PC0 4.01 4.30 -0.30 1.065 75.03 43.82 43.41 0.41 0.000 246 2
451 22.9 130 99 35.43EPO 4.22 4.32 -0.10 1.065 0.00 28.79 53.01-24.23 0.000 246 2
91 26.6 345 97 36.03EPC 4.82 4.91 -0.09 1.065 0.00 28.79 64.89-36.10 0.000 246 2
911 28.5 153 96 36.41IPO 5.20 5.23 -0.03 1.065 0.00 28.79 66.85-38.07 0.000 246 2
938 30.6 126 95 36.79EPC 5.58 5.56 0.01 1.065 42.59 11.38 14.03 -2.65 0.000 246 2
45 30.6 126 95 36.80IPC 5.59 5.56 0.02 1.065 0.00-31.21 25.62-56.84 0.000 246 2
5CI 32.3 12 95 37.06 PC0 5.85 5.84 0.01 1.065 60.96 29.75 30.51 -0.76 0.000 246 2
46 38.7 126 94 37.92IPC 6.71 6.87 0.16 1.065 65.75 34.54 34.41 0.13 0.000 246 2
49 41.6 142 93 38.40IPC 7.19 7.34 -0.16 1.065 75.03 43.82 43.41 0.41 0.000 246 2
MOCI 45.8 118 93 38.99 PC0 7.78 8.02 -0.24 1.065 0.00 28.79 64.89-36.10 0.000 246 2
MPI 86.6 126 91 46.24 P 15.03 14.64 0.38 1.065 0.00 28.79 66.85-38.07 0.000 246 2
JGI 103.8 95 65 48.95 P00 17.74 17.43 0.30 1.065 0.00 28.79 66.85-38.07 0.000 246 2
CIB 119.0 136 65 51.62 P00 20.41 19.66 0.74M0.000 0.00 28.79 66.85-38.07 0.000 246 2
G81 153.9 98 65 56.71 P 25.50 24.80 0.69M0.000 0.00 28.79 66.85-38.07 0.000 246 2
TMI 191.2 120 65 1.04 P 30.63 30.29 0.32D0.000 0.00 28.79 66.85-38.07 0.000 246 2
MWI 244.9 97 50 9.66 P 38.45 37.08 1.37M0.000 0.00 28.79 66.85-38.07 0.000 246 2
MPI 253.9 152 50 11.42 P 40.21 38.20 2.00M0.000 0.00 28.79 66.85-38.07 0.000 246 2
MLI 281.6 148 50 15.48 P 44.27 41.66 2.61M0.000 0.00 28.79 66.85-38.07 0.000 246 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE N E Z SW NE
AVE. OF END POINTS 0.10 0.12 0.12 0.13 0.14 0.14 0.15

83/11/ 7 10/30 BEGIN-----BEGIN-----83/11/ 7 10/30

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SDFM
931107 1030 49.40 44N 8.80 113W58.15 10.64 2.61 11 19 79 1 0.06 0.6 1.3 A AIA 0.09 10 12 0.00 0.05 0 0.0 0.0 7 2.6 0.3
SE OF ORIG = 0.047 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(----- MAGNITUDE DATA ----)
STM DIST AZM AIM PSEC PRMK+TCOR-Q-TT08-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FPMAG
016 4.6 14 155 51.421PD 2.02 2.04 -0.02 1.028 267 2
04 11.1 60 129 52.131PD 2.73 2.70 0.03 1.028 267 47 2.62
015 18.8 281 113 53.221P 3.82 3.78 0.04 1.028 267 80 3.12
012 20.0 201 111 53.341PC 3.94 3.96 -0.02 1.028 267 2
017 20.3 326 111 53.421PD 4.02 4.00 0.02 1.028 267 50 2.72
011 26.1 151 105 54.321P 4.92 4.90 0.02 1.028 267 57 2.82
05 29.1 122 102 54.791PD 5.39 5.38 0.02 1.028 267 2
01 29.2 347 102 54.841PD 5.44 5.40 0.04 1.028 267 24 2.12
06 37.2 123 99 56.131PD 6.73 6.66 0.07 1.028 267 29 2.32
09 39.5 140 98 56.31EP 6.91 7.04 -0.13 1.028 267 55 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW E NE N Z SM
AVE. OF END POINTS 0.03 0.11 0.18 0.19 0.19 0.19 0.25

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.06 0.02 0.16 0

83/11/ 7 10/35 BEGIN-----BEGIN-----83/11/ 7 10/35

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SDFM
831107 1035 23.99 44N10.26 113W58.69 9.12 2.51 11 18 75 1 0.08 0.9 1.7 A AIA 0.24 10 14 0.00 0.07 0 0.0 0.0 9 2.5 0.3
SE OF ORIG = 0.058 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(----- MAGNITUDE DATA ----)
STM DIST AZM AIM PSEC PRMK+TCOR-Q-TT08-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FPMAG
016 2.5 46 163 25.72 P 1.73 1.69 0.04 1.028 248 2
04 10.7 75 124 26.461PC 2.47 2.50 -0.03 1.028 248 42 2.52
017 17.7 322 108 27.441P 3.45 3.51 -0.06 1.028 248 30 2.22
015 17.8 273 108 27.521PC 3.53 3.54 0.00 1.028 248 44 2.52
012 22.4 137 102 28.261PC 4.27 4.25 0.02 1.028 248 69 2.92
01 26.4 347 99 29.04EP 5.05 4.90 0.15 1.028 248 24 2.02
011 28.8 152 98 29.39EP 5.40 5.28 0.12 1.028 248 45 2.62
05 31.2 125 97 29.691PD 5.70 5.66 0.04 1.028 248 58 2.82
06 39.3 125 95 30.821PD 6.83 6.96 -0.13 1.028 248 30 2.32
09 42.0 141 94 31.33EP 7.34 7.42 -0.08 1.028 248 45 2.62

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW E N SE
AVE. OF END POINTS 0.34 0.52 0.60 0.96 0.96 1.08 1.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.06 0.02 0.16 0

83/11/ 7 11/57 -----BEGIN-----BEGIN-----83/11/ 7 11/57

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831107 1157 5.48 43W53.78 113W44.46 12.20 2.21 13 14 181 1 0.06 1.3 1.8 C 810 0.07 10 15 0.00 0.05 0 0.0 0.0 7 2.2 0.6
SE OF ORIG = 0.131
4 ITERATIONS TOTAL
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK-TCOR-O-TTDB-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FHAG
811 7.5 313 146 7.931PC 2.45 2.49 -0.05 1.024 9.87 4.39 4.38 0.01 0.717 249 38 2.42 2
89 7.6 108 146 8.041PD 2.56 2.50 0.05 1.024 0.02 1.024 249 2
85 14.0 27 127 8.721PC 3.24 3.22 0.02 1.024 -0.08 1.024 249 2
86 15.2 59 125 8.781PC 3.30 3.38 0.00 1.024 0.15 1.024 249 8 1.12 2
SRPI 21.8 309 114 9.79EPD 4.31 4.31 -0.01 1.024 -0.01 1.024 249 16 1.72 2
M8AI 27.2 342 108 10.78EP 5.30 5.14 -0.01 1.024 15.83 10.35 10.98 -0.63 0.000 249 54 2.82 2
812 27.3 290 108 10.531PD 5.15 5.15 -0.03 1.024 0.01 1.024 249 2
84 34.5 345 103 11.73EP 6.25 6.27 0.01 1.024 -0.12 1.024 249 2
USPI 36.6 349 102 12.10EP 6.62 6.60 0.02 1.024 249 58 2.92 2
816 36.6 332 102 11.971PD 6.49 6.61 0.02 1.024 249 33 2.42 2
815 48.4 310 98 14.00EPD 8.52 8.50 0.35 0.000 249 23 2.22 2
817 53.6 326 97 14.841P 9.36 9.33
GCI 63.1 350 96 16.71EP 4 11.23 10.68

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW SW E N Z NE
AVE. OF END POINTS 0.10 0.15 0.17 0.17 0.17 0.17 0.18 0.19

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.06 0.08 0.16 0

-----END-----END-----END-----END-----

93/11/ 7 13/17 BEGIN-----BEGIN-----03/11/ 7 13/17

HORIZONTAL SE = 0.47 SE = 1.70 QUALITY = A
AZ = -41. AZ = -131.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SXXM NF AVFM SDFM
R31107 1317 30.75 44N 1.19 113W52.86 11.14 2.18 14 12 106 1 0.09 0.7 1.8 8 A18 0.06 10 19 0.00 0.07 0 0.0 0.0 11 2.2 0.4
SE DF DRIC = 0.081 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(--- MAGNITUDE DATA ---)
STN OIST AZM AIN PSEC PRMK+TCOR-OTTOB-TICAL-DELAY-EOLY= P-RES P-WT TMIC SSEC SRMK TTON TICAL S-RES S-WT AMX PR XMAG R FMP FMAG
SRPI 5.7 270 151 32.92IPC 2.17 2.20 -0.02 1.022 34.60 3.65 3.84 -0.19 0.000 250 17 1.72
B11 10.4 146 133 33.41IPC 2.66 2.67 -0.01 1.022 35.42 4.67 5.11 -0.44 0.000 250 37 2.42
M8AL 12.5 13 127 33.75EPD 3.00 2.92 0.08 1.022 37.37 6.62 6.82 -0.20 0.715 250 20 1.92
312 15.1 252 121 34.14IPC 3.39 3.28 0.11 1.022 37.22 6.47 6.93 -0.46 0.000 250 54 2.72
B5 17.7 94 116 34.50IPC 3.75 3.64 0.11 1.022 38.57 7.82 8.17 -0.35 0.000 250 2 2
B16 19.5 362 114 34.52IPC 3.87 3.90 -0.03 1.022 37.37 6.62 6.82 -0.20 0.715 250 2 2
B4 19.8 7 113 34.70EP 3.95 3.96 -0.01 1.022 37.22 6.47 6.93 -0.46 0.000 250 2 2
LSGS 20.1 42 113 34.82IPC 4.07 4.01 0.07 1.022 38.57 7.82 8.17 -0.35 0.000 250 15 1.62
DSPI 22.5 10 110 35.20EPD 4.45 4.36 0.09 1.022 250 15 1.62
B9 24.5 131 108 35.27IP 4.52 4.67 -0.15 1.022 250 41 2.52
B6 25.0 104 107 35.42IPC 4.67 4.75 -0.08 1.022 250 25 2.12
B15 31.1 304 103 36.44IPC 5.69 5.69 0.00 1.022 250 50 2.72
B17 35.9 329 100 37.20EPD 6.45 6.48 -0.03 1.022 250 32 2.32
GCI 48.4 360 97 39.74EP 4 8.99 8.48 0.51 0.000 250 32 2.42

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SE Z E NE NW SW
AVE. OF END POINTS 0.13 0.14 0.14 0.18 0.20 0.20 0.21

NUMBER RMS MIN ORMS AVE ORMS QUALITY
7 0.09 0.08 0.17 D

-----END-----END-----END-----END-----


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-----BEGIN-----BEGIN-----
83/11/ 7 14/39 83/11/ 7 14/39

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SE =	0.79	SE =	1.83
AZ =	39.	AZ =	-51.
HORIZONTAL		VERTICAL	
		SE =	0.81
		QUALITY =	A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M	RMS	EM	ERZ	Q	SOD	AQJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM
03E110T	1439	5.05	44N24.28	114W 6.06	5.81	2.75	9	26	256	1	0.06	1.8	0.8	810	0.35	10	11	0.00	0.06	0	0.0	0.0	8	2.8	0.3
												SE OF ORIG = 0.134													
												3 ITERATIONS TOTAL													

(- STATION DATA -)		P-WAVE TRAVEL-TIME DATA				P-WAVE TRAVEL-TIME DATA				VARI				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA						
STN	DIST	AZM	AIN	PSEC	PRMK	TCOR=0	TTDB	TTCL	DELAY=EDLY	P-RS	P-MT	THIC	SSEC	SRMK	TTDB	TTCL	S-RS	S-MT	AMX	PR	XMAX	R	FMP	FNAG
01	3.7	94	146	6.271PO			1.22	1.27		-0.05	1.034											751	36	2.37
017	12.0	184	114	7.581PC			2.53	2.44		0.03	1.034		9.23	4.18	4.27	-0.10	0.724					751	57	2.77
015	26.4	198	101	9.981PC			4.93	4.91		0.02	1.034											751	80	3.17
016	26.8	154	101	10.131P			5.08	5.04		0.09	1.034											751		
04	30.6	139	65	10.72EP			5.67	5.65		0.02	1.034											751	55	2.87
012	47.4	176	65	13.34EP			8.29	8.37		-0.03	1.034											751	85	3.27
035	56.4	141	65	14.84EP			9.79	9.83		-0.04	1.034											751		
0811	56.5	156	65	15.15EP	4		10.10	9.84		0.26	0.000											751	60	2.97
086	64.2	139	65	17.20EP	4		12.15	11.10		1.05	0.000											751	24	2.27
09	69.0	149	65	16.96EP			11.91	11.87		0.03	1.034											751	56	2.97

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	NW	Z	SE	SW	E	N	NE
Ave. of end points	0.35	0.39	0.54	0.56	0.57	0.59	0.63

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
9	0.06		0.31		0.54	A

END
END
END

HORIZONTAL SE = 1.93 SE = 7.26 VERTICAL SE = 7.61
AZ = -2. AZ = -92. QUALITY = C

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SDD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SOFM
931107 1846 0.71 44M11.82 114W21.44 8.13 2.97 11 28 271 1 0.16 7.3 7.6 D D10 0.13 10 13 0.00 0.13 0 0.0 0.0 5 3.0 0.4
SE OF ORIG = 0.575 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-D+TTION-TTCAL-DELAY-EULY= P-RES P-WT THIC SSEC SRMK TT08 TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
315 12.7 99 113 3.44IPC 2.73 2.70 0.03 1.000 253 123 3.42
317 22.5 60 97 4.92IPC 4.21 4.25 -0.04 1.000 253 71 3.02
MWSI 27.7 77 95 5.59IPC 4.88 5.08 -0.20 1.000 253 2
316 32.2 92 94 6.57IPC 5.86 5.81 0.05 1.000 253 2
31 33.3 47 93 6.78EPC 6.07 5.99 0.08 1.000 253 49 2.72
312 33.9 136 93 6.57IPC 5.96 6.10 -0.13 1.000 253 2
34 40.6 90 92 7.54EP 6.83 7.18 -0.35 1.000 253 2
DSPI 42.1 87 92 8.251PD 7.54 7.42 0.13 1.000 253 2
GCI 47.5 53 92 9.01EPC 8.30 8.30 0.01 1.000 253 97 3.32
LSGS 51.7 95 92 9.89EPD 9.18 8.97 0.21 1.000 253 2
35 59.6 111 91 11.471PC4 10.76 10.25 0.51 0.000 253 2
36 67.4 112 91 12.44EP 11.73 11.53 0.21 1.000 253 33 2.52

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N NE Z E SW NW
AVE. OF END POINTS 0.06 0.07 0.08 0.08 0.08 0.09 0.12

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.16 0.03 0.08 0

-----END-----END-----END-----END-----

83/11/ 7 19/17 BEGIN-----BEGIN-----83/11/ 7 19/17

HORIZONTAL SE = 0.33 SE = 0.57 VERTICAL SE = 1.36
AZ = -45. AZ = -135. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERH ER2 Q SQO ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SDFM
831107 1917 20.74 44W 7.82 113W55.79 9.46 2.27 10 20 81 1 0.05 0.6 1.4 A A1A 0.17 10 14 0.00 0.04 0 0.0 0.0 6 2.3 0.2
SE OF ORIG = 0.048 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STM DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTICAL-DELAY-EDLT- P-RES P-WT THIC SSEC SRMK TDOB TTICAL S-RES S-WT ANX PR XMAG R FMP FHAG
916 6.6 342 141 22.77IPC 2.03 2.05 -0.03 1.031 25.36 4.62 4.23 0.39 0.000 254 34 2.32 2
84 9.8 41 129 23.17IPC 2.43 2.42 0.01 1.031 27.64 6.90 7.42 -0.53 0.000 254 42 2.52 2
812 19.8 212 107 24.54IPO 3.80 3.86 -0.07 1.031 28.51 7.77 7.66 0.10 0.722 254 27 2.12 2
915 22.3 284 104 24.99IP 4.25 4.24 0.00 1.031 28.74 8.00 8.33 -0.33 0.000 254 47 2.62 2
911 23.1 155 103 25.14IPC 4.40 4.38 0.02 1.031 32.03 11.29 11.31 -0.02 0.000 254 26 2.22 2
817 23.6 322 103 25.27IPC 4.53 4.46 0.06 1.031
85 25.5 122 101 25.44IP 4.70 4.76 -0.04 1.031
86 33.6 123 97 26.77EP 6.03 6.06 -0.03 1.031
89 36.1 142 96 27.23EP 6.49 6.46 0.02 1.031

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE Z E N SW NE
AVE. OF END POINTS 0.11 0.11 0.15 0.17 0.20 0.24 0.24

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.05 0.00 0.18 0

-----END-----END-----END-----END-----

83/11/ 7 19722 BEGIN-----BEGIN-----83/11/ 7 19/22

HORIZONTAL SE = 0.46 SE = 0.86 VERTICAL SE = 1.91
AZ = -2. AZ = -92. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SDRM MF AVFM SDFM
931107 1922 4.25 44N19.40 114W 5.23 0.51* 2.28 13 9 138 1 0.09 0.9 1.9 8 AIC 0.52 10 20 0.00 0.09 0 0.0 0.0 10 2.3 0.3
SE OF ORIG = 0.101 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-Q-TT0B-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAU
917 7 3.6 215 98 4.921PC 0.67 0.76 -0.08 1.000 7.38 3.13 3.17 -0.03 0.000 753 40 2.47
81 9.2 17 58 6.031P 1.78 1.81 -0.03 1.000 10.87 6.62 6.06 0.56 0.000 753 29 2.17
N4SI 9.3 145 58 6.14EPC 1.89 1.82 0.07 1.000 3.40 -0.85 3.48 -4.33 0.000 753 28 2.17
MIR 10.2 353 58 6.361PC 2.11 1.99 0.12 1.000 9.43 5.18 6.08 -0.90 0.000 753 23 1.97
816 18.4 145 58 7.62EP 3.37 3.47 -0.09 1.000 11.92 7.67 7.63 0.04 0.000 753 30 2.27
815 18.5 209 58 7.631PC 3.38 3.48 -0.09 1.000 15.21 10.96 7.69 3.27 0.000 753 35 2.37
GCI 21.9 48 58 8.231P 3.98 4.08 -0.10 1.000 753 26 2.17
JSP1 23.4 120 58 8.47EPC 4.22 4.36 -0.14 1.000 753 45 2.67
94 23.7 127 58 8.61EPC 4.36 4.40 -0.03 1.000 753 54 2.87
48AI 29.0 138 58 10.11EPC4 5.86 5.35 0.51 0.000 753 40 2.67
86PI 35.4 162 58 10.89EPD 6.64 6.50 0.14 1.000
812 38.3 177 58 11.34EPC 7.09 7.02 0.07 1.000
85 48.9 136 58 13.261PO 9.01 8.91 0.11 1.000
89 60.8 145 58 15.28EP 11.03 10.97 0.06 1.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SE NE NW N SW
AVE. OF END POINTS 0.03 0.11 0.13 0.14 0.14 0.15 0.19

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.09 0.06 0.14 0

-----END-----END-----END-----END-----

```

-----BEGIN-----BEGIN-----
03/11/ 7 21/ 0 03/11/ 7 21/ 0

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HORIZONTAL		VERTICAL	
SE =	1.61	SE =	2.96
AZ =	4.	AZ =	-86.

```

LAT LONG DEPTH MAG MD D3 GAP M RMS
114266.91 5.98 2.56 14 34 282 1 0.15
ORIGIN DATE DATE ORIGIN
114266.91 5.98 2.56 14 34 282 1 0.15
SE OF ORIG = 0.256
6 ITERATIONS TOTAL
ERZ C SCD AOJ IN NR AVR AAR MM AVXM SDXM NF AVFM SDFM
2.2 2.2 0 C1D 0.68 10 20 0.00 0.12 0 0.0 0.0 11 2.6 0.3
ERM

```

STATION DATA		P-WAVE TRAVEL-TIME DATA				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA															
STN	DIST	AZM	AIN	P6C	PRMK	TCOR	TTOTAL	TTOTAL	DELTA	COLY	P-RES	P-WT	THIC	SSEC	SRMK	TTOTB	TTOTAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
33.6	55	65	38	56	1P0		6.27	6.12			0.14	1.022						255	50	2.72					
34.2	88	65	38	76	NEPC		6.07	6.22			0.15	1.022						255	23	2.02					
36.2	60	65	39	19	1P0		6.50	6.53			0.04	1.022						255	35	2.42					
39.9	99	65	39	51	EP		6.82	7.14			0.33	1.022						255	50	2.72					
42.7	133	65	40	13	EP		7.44	7.59			0.15	1.022						255	5	2.2					
46.8	122	65	41	09	EPD		8.40	8.26			0.13	1.022						255	35	2.42					
48.2	96	65	41	02	EP		8.51	8.59			0.02	1.022						255	50	2.72					
49.4	93	65	41	51	P		8.82	8.68			0.14	1.022						255	28	2.22					
49.8	105	65	41	71	EPD		9.02	8.75			0.26	1.022						255	5	2.2					
51.0	62	65	56	56	EP		*****	0.000			*****	0.000						255	50	2.72					
51.0	62	65	56	56	EP		*****	0.000			*****	0.000						255	5	2.2					
59.5	99	65	43	48	EPD		10.79	10.23			0.46	0.000						255	2						
61.1	123	65	43	82	EP		11.13	10.58			0.54	0.000						255	2						
68.2	112	65	44	46	EP		11.75	11.74			0.01	1.022						255	65	3.12					
75.7	123	65	45	62	EP		12.93	12.96			-0.03	1.022						255	25	2.22					
76.1	114	65	46	62	EP		13.93	13.02			0.91	0.000						255	25	2.22					

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	E	Z	NW	NE	SE	SW	N
AVE. OF END POINTS	0.03	0.06	0.09	0.10	0.10	0.11	0.16

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
9	0.15	0.02	0.10			0

END
END
END
END

83/11/ 7 22/32 -----BEGIN----- 83/11/ 7 22/32

-----BEGIN-----

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
#31107 2232 26.63 44W13.45 114W 3.67 8.10 2.62 12 12 99 1 0.07 0.6 1.8 8 A18 0.07 10 14 0.00 0.06 0 0.0 0.0 9 2.6 0.3
SE OF ORIG = 0.052 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAg
#17 9.1 333 125 28.641PD 2.01 2.18 -0.17 1.053 32.56 5.93 5.96 -0.03 0.737 33.33 6.70 6.67 0.03 0.737 30.94 12.31 12.40 -0.09 0.000 41.91 15.28 15.46 -0.17 0.000
#16 9.4 116 124 28.981P 2.35 2.24 0.12 1.053 0.06 1.053 0.09 1.053 0.00 1.053 -0.03 1.053 -0.03 1.053 0.03 1.053
#15 12.3 245 114 29.331PC 2.70 2.64 -0.02 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#14 17.2 100 103 30.011PD 3.38 3.41 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#13 19.8 2 100 30.531PD 3.90 3.81 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#12 27.3 180 95 31.641PC 5.01 5.02 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#11 37.3 147 93 33.241EP 6.81 6.64 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#5 40.0 127 92 33.741PD 7.11 7.08 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#6 48.1 127 92 34.971P 8.34 8.40 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053
#9 50.8 140 92 35.431PC 8.80 8.83 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053 0.00 1.053

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW NE E N Z SE
AVE. OF END POINTS 0.08 0.11 0.15 0.16 0.15 0.19 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.07 0.02 0.15 0

83/11/ 7 22/32 -----BEGIN----- 83/11/ 7 22/32

-----BEGIN-----

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ G SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
#31107 2355 39.61 44N 4.98 113W54.27 11.71 2.64 10 17 94 1 0.09 1.1 3.6 8 B18 0.15 10 12 0.00 0.07 0 0.0 0.0 8 2.6 0.2
SE OF ORIG = 0.133 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAg
#16 12.2 341 130 42.561PC 2.95 2.95 -0.01 1.031 32.56 5.93 5.96 -0.03 0.737 33.33 6.70 6.67 0.03 0.737 30.94 12.31 12.40 -0.09 0.000 41.91 15.28 15.46 -0.17 0.000
#15 13.4 19 127 42.761PC 3.15 3.09 0.05 1.031 0.06 1.031 0.09 1.031 0.00 1.031 0.00 1.031 0.00 1.031 0.00 1.031
#14 17.1 227 119 43.221PD 3.61 3.60 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031
#13 17.4 154 119 43.271PD 3.66 3.65 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031 0.01 1.031
#12 21.2 113 113 43.921P 4.31 4.21 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031
#11 26.0 294 108 44.641P 5.03 4.93 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031
#5 29.0 325 105 45.041PD 5.45 5.40 0.05 1.031 0.05 1.031 0.05 1.031 0.05 1.031 0.05 1.031 0.05 1.031 0.05 1.031
#6 29.2 114 105 45.011P 5.40 5.43 0.03 1.031 0.03 1.031 0.03 1.031 0.03 1.031 0.03 1.031 0.03 1.031 0.03 1.031
#9 30.7 139 104 45.181PC 5.57 5.67 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031 0.10 1.031
#1 37.5 341 101 46.731P 7.12 6.74 0.37 0.000 0.37 0.000 0.37 0.000 0.37 0.000 0.37 0.000 0.37 0.000 0.37 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E Z N NE SW
AVE. OF END POINTS 0.00 0.12 0.16 0.16 0.17 0.18 0.19

83/11/ 8 1/38									
-----BEGIN-----83/11/ 8 1/38									
VERTICAL									
SE = 0.61 QUALITY = A									
AZ = -134.									
DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M RMS
831108	138	2.41	4.4N	113W59.39	10.23	2.74	11	18	77 1 0.06
SE OF ORIG = 0.037 3 ITERATIONS TOTAL									
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----									
STN	DIST	AZM	AIN	PSEC	PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLV=	P-RES	P-WT	THIC	SSEC
816	3.3	26	161	4.331PD	1.92	1.90	0.03	1.028	5.68
84	10.7	68	129	5.081PC	2.67	2.61	0.07	1.028	9.46
815	18.3	276	112	6.091PD	3.68	3.68	0.01	1.028	9.22
817	18.8	324	111	6.091PD	3.68	3.75	-0.07	1.028	10.82
812	21.4	199	108	6.571PD	6.16	4.15	0.02	1.028	13.81
811	27.6	152	102	7.601PD	5.19	5.13	0.06	1.028	15.67
81	27.6	346	102	7.571PD	5.16	5.13	0.03	1.028	
85	30.2	124	101	8.001PC	5.59	5.54	0.05	1.028	
86	38.3	124	97	9.131PD	6.74	6.83	-0.09	1.028	
89	40.9	141	97	9.591PC	7.18	7.25	-0.07	1.028	
QUALITY EVALUATION									
DIAGONALS IN ORDER OF STRENGTH									
AVE. OF END POINTS									
NUMBER RMS MIN DRMS AVE DRMS QUALITY									
11 0.06 0.52 0.84 A									
83/11/ 8 2/14									
-----BEGIN-----83/11/ 8 2/14									
HORIZONTAL									
SE = 0.45 QUALITY = A									
AZ = -12.									
DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M RMS
831108	214	59.72	4.4N12.81	114W 2.38	9.11	2.79	12	13	100 1 0.07
SE OF ORIG = 0.058 4 ITERATIONS TOTAL									
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----									
STN	DIST	AZM	AIN	PSEC	PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLV=	P-RES	P-WT	THIC	SSEC
916	7.4	114	137	1.861PD	2.14	2.09	0.05	1.053	3.51
917	11.0	328	124	2.191PD	2.47	2.54	-0.07	1.053	4.73
815	13.5	253	117	2.631PD	2.91	2.88	0.03	1.053	4.08
84	15.4	97	112	2.881PC	3.16	3.17	-0.01	1.053	6.77
81	21.1	357	104	3.871PD	4.15	4.05	-0.10	1.053	7.92
912	26.1	184	99	4.571PD	4.85	4.85	-0.01	1.053	10.67
811	35.4	149	96	6.211EP	6.49	6.33	0.15	1.053	
85	38.0	127	95	6.471PC	6.75	6.75	0.00	1.053	
96	46.0	127	94	7.711PC	7.99	8.07	-0.08	1.053	
99	48.8	140	93	8.141EPD	8.42	8.52	-0.10	1.053	
QUALITY EVALUATION									
DIAGONALS IN ORDER OF STRENGTH									
AVE. OF END POINTS									
NUMBER RMS MIN DRMS AVE DRMS QUALITY									
11 0.03 0.09 0.10 0.14 0.17 0.19 0.20									

83/11/ 8 2/50 -----BEGIN-----BEGIN-----83/11/ 8 2/50

SE = 0.60 SE = 0.70 VERTICAL
AZ = -20. AZ = -116. SE = 1.72 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SDRM NF AVFM SDFM
931108 250 3.90 44N 2.58 113W55.10 11.68 1.88 17 13 84 1 0.12 0.7 1.7 A AIA 0.51 10 29 0.00 0.10 0 0.0 0.0 11 1.9 0.4
SE OF ORIG = 0.086 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SRPI 3-8 226 161 5.991PD 2.09 2.15 -0.06 1.037 9.10 5.20 4.95 0.25 0.000 260 18 1.72
M8A1 11-2 31 132 6.811PC 2.91 2.83 0.08 1.037 9.44 5.54 5.42 0.12 0.726 260 26 2.12
812 13.5 238 127 7.031PC 3.13 3.10 0.03 1.037 10.03 6.13 5.59 0.54 0.000 260 21 1.92
811 14.2 142 125 7.131PC 3.23 3.20 0.03 1.037 9.83 5.93 6.10 -0.17 0.000 260 19 1.82
816 16.3 350 121 7.341PD 3.44 3.48 -0.04 1.037 10.15 6.25 6.51 -0.26 0.726 260 12 1.42
84 18.0 18 118 7.591PC 3.69 3.72 0.03 1.037 10.83 6.93 7.21 -0.28 0.000 260 2 2
LSGS 20.6 53 114 8.121PC 4.22 4.09 0.13 1.037 9.24 5.34 7.28 -1.94 0.000 260 26 2.12
JSPI 20.7 20 114 8.171P 4.27 4.12 0.14 1.037 14.49 10.59 8.94 1.65 0.000 260 22 2.02
85 21.0 101 113 8.201PC 4.30 4.16 0.14 1.037 12.97 9.07 9.28 -0.21 0.000 260 13 1.52
M8S1 24.9 341 109 11.75EP 4 7.85 4.77 3.09 0.000 13.91 10.01 10.32 -0.31 0.000 260 16 1.72
915 27.1 304 107 8.941PD 5.04 5.11 -0.07 1.037 15.27 11.37 12.90 -1.53 0.000 260 50 2.82
89 28.4 131 106 8.97EP 5.07 5.30 -0.23 1.037 0.14 1.037 260 2 2
86 28.6 107 106 9.161PC 5.26 5.33 -0.07 1.037 260 26 2.12
317 32.2 331 103 9.691PC 5.79 5.90 -0.11 1.037 260 22 2.02
31 41.4 345 99 11.271PD 7.37 7.75 0.00 1.037 260 13 1.52
MIR 43.8 340 99 4.51EP 4 0.61 7.75 -7.14 0.000 260 16 1.72
GCI 45.9 4 98 12.13EP 8.23 8.09 0.14 1.037 260 50 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW SE NW NE E M
AVE. OF END POINTS 0.31 0.66 0.75 0.80 0.82 0.83 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
17 0.12 0.33 0.76 A

DATE	TIME	LOCATION	STATUS	REMARKS
33/11/8	6/10	BEGIN	BEGIN	83/11/8 6/10

HORIZONTAL		VERTICAL	
SE =	SE =	SE =	SE =
1.28	4.01	6.78	QUALITY = C
AZ =	AZ =		
15.	-75.		

[illegible]

(- STATION DATA -)		P-WAVE TRAVEL-TIME DATA AND DELAYS				VARI				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA								
SYM	DIST	AIM	PSS	PRM	TCOR=0	TTCL=TTCL	DELAY=EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTCAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
RCI	7.4	160	58	55.90	PC4	1.95	1.53	0.42	0.000		0.00	-53.95	2.68	-56.63	0.000							
RCI	11.4	136	58	56.61	PC	2.66	2.25	0.61	1.012		59.13	5.18	3.94	1.24	0.000							
RCI	15.7	72	58	56.86	PC	2.89	3.03	0.41	1.012		59.13	5.18	3.94	1.24	0.000							
RCI	22.3	89	58	57.97	PC0	4.02	4.20	-0.24	1.012		60.29	5.35	5.30	0.05	0.709							
RCI	24.0	41	58	58.10	PD4	4.15	4.50	-0.18	1.012		60.29	5.35	5.30	0.05	0.709							
RCI	24.5	107	58	58.80	P 0	4.85	4.60	-0.35	0.000		0.00	-53.95	7.87	-61.82	0.000							
RCI	24.5	107	58	58.80	P 0	4.85	4.60	0.25	1.012		0.00	-53.95	8.05	-62.00	0.000							
RCI	25.7	50	58	59.10	PC	5.15	4.82	0.33	1.012		61.64	7.69	8.43	-0.74	0.000							
RCI	28.5	105	58	59.18	PC	5.23	5.31	-0.08	1.012		62.23	8.28	9.29	-1.01	0.000							
RCI	29.1	98	58	59.13	PC0	5.18	5.42	-0.23	1.012		0.00	-53.95	9.48	-63.43	0.000							
RCI	35.7	106	58	0.96	PD0	7.01	6.59	0.25	1.012		0.00	6.05	11.53	-5.78	0.000							
RCI	35.9	147	58	0.37	P+0	6.42	6.63	-0.21	1.012		1.79	7.84	11.60	-3.76	0.000							
RCI	35.9	148	58	0.36	PC	6.41	6.64	-0.23	1.012		6.48	12.53	11.61	0.92	0.000							
RCI	36.6	100	58	0.45	PD0	6.54	6.75	-0.21	1.012		2.98	9.03	11.82	-2.79	0.000							
RCI	37.6	96	58	0.52	P+0	6.57	6.94	-0.37	1.012		0.00	6.05	12.14	-6.09	0.000							
RCI	38.0	133	58	0.79	P 0	6.84	7.01	-0.17	1.012		0.00	6.05	12.26	-6.21	0.000							
RCI	38.6	80	58	0.45	PC0	6.50	7.13	-0.62	0.000		0.00	6.05	12.47	-6.42	0.000							
RCI	38.8	111	58	61.29	P+0	7.34	7.16	0.20	1.012		0.00	-53.95	12.53	-66.48	0.000							
RCI	40.2	56	58	1.22	PC0	7.27	7.39	-0.12	1.012		0.00	6.05	12.94	-6.89	0.000							
RCI	40.4	120	58	1.87	P+0	7.92	7.43	0.19	1.012		0.00	6.05	13.00	-7.48	0.000							
RCI	48.1	103	58	2.78	PD0	8.83	8.81	0.02	1.012		0.00	6.05	15.42	-9.37	0.000							
RCI	50.0	118	58	3.24	P 0	9.29	9.16	0.13	1.012		0.00	6.05	16.02	-9.97	0.000							
RCI	52.3	131	58	3.48	PC	9.53	9.56	-0.03	1.012		11.04	17.0										

DIAGONALS IN ORDER OF STRENGTH	SE	SW	N	NE	Z	NW	E
AVE. OF END POINTS	-0.01	-0.01	0.00	0.01	0.01	0.02	0.03

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
15	0.22	-0.06	0.01			0

END
END
END
END

QUALITY EVALUATION

83/11/ 8 6/14 BEGIN-----BEGIN-----83/11/ 8 6/14

HORIZONTAL SE = 0.71 SE = 0.96 VERTICAL SE = 2.38 QUALITY = A
AZ = -52. AZ = 38.

DATE ORIGIN LAT LONG DEPTH MAG ND 03 GAP M RMS ERM SRZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM JDFM
831108 614 55.05 43N57.97 113W49.64 12.15 2.19 15 14 123 1 0.11 1.0 2.4 8 818 0.33 10 19 0.00 0.09 0 0.0 0.0 6 2.2 0.3
SE OF ORIG = 0.123 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-DTTOR-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XWAG R FMP FMAG
B11 3.1 151 165 57.21IPC 2.16 2.19 -0.03 1.042 59.69 4.64 5.13 -0.49 0.000 262 43 2.52
SRPI 11.6 301 133 57.99IPC 2.94 2.93 0.00 1.042 0.07 1.042 262 30 2.22
95 14.2 71 127 58.36IPC 3.31 3.24 0.07 1.042 61.04 5.99 6.44 -0.45 0.000 262 2
89 17.4 126 120 58.72IPC 3.67 3.68 -0.01 1.042 0.18 1.042 262 2
48AI 18.2 355 119 59.03IP 3.98 3.79 0.06 1.042 62.26 7.21 7.84 -0.64 0.000 262 24 2.02
912 18.8 274 118 58.99IPC 3.94 3.87 -0.19 1.042 63.41 8.36 8.59 -0.23 0.729 262 24 2.12
96 19.9 90 116 58.91IPC 3.86 4.04 0.12 1.042 0.05 1.042 262 47 2.62
LSGS 22.9 23 112 59.66IPC 4.61 4.68 0.08 1.042 0.03 1.042 262 2
84 25.7 356 109 60.01IPD 4.96 4.91 5.13 5.05 0.03 1.042 262 2
916 26.6 337 109 60.18EP 5.31 5.28 6.66 6.84 -0.18 1.042 262 2
DSPI 28.1 359 107 60.34EP 5.31 5.28 7.73 7.69 0.04 1.042 262 2
915 38.1 308 102 61.71EPD 6.66 6.84 9.45 9.05 0.40 0.000 70.80 15.75 15.83 -0.09 0.729 262 14 1.72
917 43.3 328 100 62.78EPD 7.73 7.69
91 51.4 339 98 64.50EPD4 9.45 9.05

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE SE E N NW
AVE. OF END POINTS 0.29 0.49 0.52 0.70 0.78 0.81 0.87

NUMBER RMS MIN DRMS AVE DRMS QUALITY
15 0.11 0.25 0.66 8

HORIZONTAL SE = 0.53 SE = 0.71 VERTICAL SE = 1.46
AZ = -48. AZ = 42. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
#31108 643 2.53 46N10.03 113W57.61 8.30 3.05 31 6 73 1 0.17 0.7 1.5 8 81A 0.25 10 67 0.00 0.13 0 0.0 0.0 14 3.1 0.3
SE OF ORIG = 0.054 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)																						
STN	DIST	AZM	AIN	PSEC	PRM+TCOR-D	TT08-TTICAL	DELAY-EDLY	P-RES	P-WT	THIC	SSRC	SRMK	TT08 TTICAL	S-RES	S-WT	AMX	PR	KMAG	R	FMP	F-MAG	
842	1.1	242	171	6.10	P 4	3.57	1.51	2.06	0.000	7.43	4.90	2.64	2.26	0.000	263	83	3.02	2				
816	2.2	10	163	4.23	IPD	1.70	1.55	0.15	1.020	0.00	-2.53	2.95	-5.49	0.000	263	83	3.02	2				
ANPI	4.3	302	149	4.26	P 0	1.73	1.69	0.04	1.020	0.00	-2.53	3.21	-5.74	0.000	263	83	3.02	2				
WSUI	5.9	17	140	4.43	P00	1.90	1.83	0.07	1.020	0.00	-2.53	3.46	-6.27	0.000	263	84	3.12	2				
M-2	7.1	94	134	4.76	PCD	2.23	1.97	0.09	1.020	0.00	-2.53	3.46	-6.27	0.000	263	84	3.12	2				
84	9.5	70	125	4.78	IPC	2.25	2.26	-0.01	1.020	0.00	-2.53	4.11	-6.64	0.000	263	83	3.02	2				
MBAI	10.1	115	122	4.60	P+0	2.07	2.35	-0.28	1.020	0.00	-2.53	4.29	-0.54	0.000	263	83	3.02	2				
MMSI	10.9	334	120	4.85	PCD	2.32	2.45	-0.13	1.020	0.00	-2.53	4.50	-7.03	0.000	263	83	3.02	2				
DSP1	11.7	61	117	5.02	PCD	2.49	2.57	-0.08	1.020	0.00	-2.53	4.59	-0.04	0.714	263	84	3.12	2				
837	12.1	161	116	5.19	P 0	2.66	2.62	0.04	1.020	0.00	-2.53	4.92	-7.98	0.000	263	83	3.02	2				
M-1	13.3	145	113	5.72	P00	3.19	2.81	0.08	1.020	0.00	-2.53	5.73	0.32	0.000	263	83	3.02	2				
BRPI	16.4	178	106	5.83	P00	3.30	3.27	0.03	1.020	0.00	-2.53	6.30	6.43	-0.13	0.000	263	83	3.02	2			
817	18.9	320	102	6.08	IPC	3.55	3.67	-0.13	1.020	0.00	-2.53	6.37	6.54	-0.17	0.714	263	83	3.02	2			
815	19.3	274	101	6.38	IPD	3.85	3.73	0.11	1.020	0.00	-2.53	6.59	-9.12	0.000	263	83	3.02	2				
CGI	19.5	34	101	6.20	PCD	3.67	3.77	-0.10	1.020	0.00	-2.53	6.59	-9.12	0.000	263	83	3.02	2				
LSGS	19.7	94	101	6.33	PCD	3.80	3.81	-0.01	1.020	0.00	-2.53	6.66	-9.20	0.000	263	83	3.02	2				
8RCI	21.9	200	99	6.70	P00	4.17	4.14	0.03	1.020	0.00	-2.53	7.25	-2.79	0.000	263	83	3.12	2				
LCRI	22.0	129	99	6.56	PCD	4.01	4.16	-0.15	1.020	0.00	-2.53	7.25	-2.79	0.000	263	83	3.12	2				
812	22.4	201	98	6.79	IPD	4.26	4.23	0.03	1.020	0.00	-2.53	7.29	-9.82	0.000	263	82	3.12	2				
RCI	24.8	276	97	7.00	PCD	4.47	4.62	-0.15	1.020	0.00	-2.53	8.09	-10.62	0.000	263	40	2.52	2				
81	27.2	344	96	6.92	IPD	4.39	5.01	-0.62	1.020	0.00	-2.53	8.94	0.22	0.000	263	81	3.12	2				
811	27.8	154	95	7.79	IP	5.26	5.11	0.15	1.020	0.00	-2.53	9.48	-12.01	0.000	263	81	3.12	2				
MIR	29.7	330	95	8.40	PCD	5.87	5.42	0.45	1.020	0.00	-2.53	9.50	-12.03	0.000	263	81	3.12	2				
838	29.8	126	95	8.01	P 0	5.48	5.43	0.05	1.020	0.00	-2.53	9.50	-0.35	0.000	263	111	3.42	2				
35	29.8	126	95	7.98	IP	5.45	5.43	0.02	1.020	0.00	-2.53	10.30	-12.83	0.000	263	40	2.52	2				
GC1	32.6	11	94	8.22	P00	5.69	5.88	-0.19	1.020	0.00	-2.53	10.88	-0.91	0.000	263	87	3.22	2				
86	37.9	126	93	9.11	IPC	6.58	6.74	-0.16	1.020	0.00	-2.53	12.49	-1.31	0.000	263	46	2.82	2				
89	40.8	143	93	9.57	IPC	7.04	7.21	-0.18	1.020	0.00	-2.53	13.80	-0.91	0.000	263	55	3.02	2				
MDCI	44.9	117	92	10.12	PCD	7.59	7.88	-0.29	1.020	0.00	-2.53	15.02	-1.31	0.000	263	60	3.22	2				
MPI	85.8	126	91	17.41	P 0	14.88	14.51	0.37	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
JGI	103.1	95	91	20.14	PCD	17.61	17.31	0.30	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
C10	118.2	136	65	22.82	PCD	20.29	19.56	0.73	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
G01	153.2	97	65	27.96	PCD	25.43	24.71	0.72	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
IMI	190.4	120	65	33.14	P00	30.61	30.19	0.42	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
IMW	244.2	97	50	41.45	P 0	38.92	37.01	1.91	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				
MLI	280.8	148	50	47.10	P 0	44.57	41.59	2.98	1.020	0.00	-2.53	15.02	-1.31	0.000	263	69	3.52	2				

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH		
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DATE ORIGIN LAT LONG DEPTH MAG ND OJ GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODX MF AVFM SDFM
 831108 646 34.06 44N12.51 114W 2.33 8.23 3.33 26 7 72 1 0.12 0.6 1.1 A AIA 0.30 10 60 0.00 0.09 0 0.0 0.0 14 3.3 0.3
 SE OF ORIG = 0.045 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)

STN	DIST	AZM	AZM	PSEC	PRMK	TCOR	TTOT	TTAL	S-RES	S-WT	AMX	PR	AMX	PR	FMAG	R	FMAG
AMPI	3.5	131	155	35.77	P00	1.71	1.61	0.10	1.042	0.00	34.06	2.82	36.88	0.000	763	7	763
MSXI	5.4	16	143	35.81	P00	1.75	1.77	-0.02	1.042	0.00	34.06	3.10	37.16	0.000	763	7	763
816	7.1	110	134	36.03	P00	1.97	1.96	0.01	1.042	0.00	34.06	3.10	37.16	0.000	763	7	763
MSUI	8.0	82	130	36.22	P00	2.16	2.07	0.09	1.042	0.00	34.06	3.62	37.68	0.000	763	7	763
817	11.5	329	118	36.60	P00	2.54	2.53	0.01	1.042	38.23	4.17	4.93	-0.76	0.000	763	73	3.07
315	13.4	259	112	36.93	P00	2.87	2.81	0.05	1.042	0.00	34.06	5.17	39.53	0.000	763	120	3.47
4-2	14.3	111	110	37.36	P00	3.30	2.95	0.17	1.042	0.00	34.06	5.17	39.53	0.000	763	7	763
84	15.2	95	108	37.18	P00	3.12	3.09	0.02	1.042	0.00	34.06	5.17	39.53	0.000	763	112	3.37
DSPI	16.6	86	105	37.35	P00	3.29	3.31	-0.02	1.042	0.00	34.06	5.79	39.85	0.000	763	7	763
MBAI	17.8	120	103	37.71	P+2	3.65	3.50	0.15	0.261	0.00	34.06	6.12	40.19	0.000	763	7	763
RCI	18.5	264	102	37.70	P00	3.64	3.61	0.03	1.042	0.00	34.06	6.32	40.38	0.000	763	7	763
CGI	20.7	56	99	37.95	P 0	3.89	3.96	-0.07	1.042	0.00	34.06	6.93	40.99	0.000	763	7	763
M-1	20.9	138	99	38.17	P00	4.11	3.98	-0.17	1.042	0.00	34.06	6.97	41.56	0.000	763	7	763
81	21.6	357	99	38.18	P00	4.12	4.10	0.02	1.042	40.69	6.43	7.31	-0.68	0.000	763	55	2.77
ORPI	22.1	162	98	38.34	P00	4.28	4.17	0.10	1.042	0.00	34.06	7.68	41.74	0.000	763	7	763
MIR	23.4	348	97	38.00	P04	4.94	4.39	0.55	0.000	0.00	34.06	7.68	41.74	0.000	763	7	763
9RCI	25.1	103	96	38.69	P00	4.63	4.68	-0.05	1.042	0.00	34.06	8.18	42.25	0.000	763	7	763
812	25.6	184	96	38.83	P00	4.77	4.75	0.02	1.042	42.25	8.19	8.31	-0.12	0.729	763	120	3.47
LSGS	26.7	103	95	38.94	P00	4.88	4.92	-0.05	1.042	40.43	6.37	8.61	-2.25	0.000	763	7	763
LCRI	28.8	129	94	39.45	P00	5.39	5.42	-0.04	1.042	0.00	34.06	9.49	43.56	0.000	763	7	763
GC1	30.1	24	94	39.32	P00	5.26	5.48	-0.23	1.042	0.00	34.06	9.59	43.66	0.000	763	7	763
811	34.9	148	93	40.64	P 4	6.58	6.25	0.33	0.000	45.87	11.91	11.70	0.11	0.000	763	82	3.17
85	37.6	126	93	40.82	P0C	6.76	6.69	0.07	1.042	47.21	13.15	13.99	-0.85	0.000	763	120	3.57
86	45.7	126	92	41.91	P0C	7.85	8.00	-0.15	1.042	49.84	15.78	15.98	-0.21	0.000	763	74	3.37
89	48.3	140	92	42.44	P0D	8.38	8.43	-0.06	1.042	0.00	34.06	27.57	61.63	0.000	763	79	3.47
MOCI	52.7	119	92	43.04	P00	8.98	9.13	-0.16	1.042	0.00	34.06	32.05	66.11	0.000	763	94	3.67
API	93.5	126	91	50.38	P 0	16.32	15.75	0.56	0.000	0.00	34.06	36.22	70.28	0.000	763	104	3.97
JGI	109.6	97	65	52.75	P00	18.69	18.31	0.37	1.042	0.00	34.06	45.03	19.09	0.000	763	109	4.07
CIR	125.9	135	65	55.37	P00	21.31	20.70	0.61	0.000	0.00	34.06	45.03	19.09	0.000	763	109	4.07
GMI	160.1	99	65	0.41	P 0	26.35	25.73	0.62	0.000	0.00	34.06	45.03	19.09	0.000	763	109	4.07
TMI	198.0	120	50	5.58	P00	31.52	31.24	0.27	0.000	0.00	34.06	45.03	19.09	0.000	763	109	4.07
IMW	250.6	98	50	13.12	P 0	39.06	37.82	1.23	0.000	0.00	34.06	45.03	19.09	0.000	763	109	4.07
MLI	288.1	147	50	15.17	P 0	45.11	42.51	2.60	0.000	0.00	34.06	45.03	19.09	0.000	763	109	4.07

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E SW NE Z SE M
 AVE. OF END POINTS 0.09 0.10 0.11 0.12 0.13 0.14 0.21

NUMBER RMS MIN DRMS AVE DRMS QUALITY
 10 0.12 0.05 0.13 0

83/11/ 8 7/11 BEGIN-----BEGIN-----93/11/ 8 7/11

HORIZONTAL SE = 0.84 VERTICAL SE = 2.21
AZ = -43. AZ = -133. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SCD ADJ IN NR AVR AAR NM AVXM SDRM NF AVFM SDFM
831108 711 47.54 44N 8.49 113W57.04 2.46 3.28 16 9 77 1 0.15 0.8 2.2 8 818 0.23 10 44 0.00 0.12 0 0.0 0.0 5 3.3 0.2
SE OF ORIG = 0.050 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
SYN DIST AZM AIN PSEC PRMK+TCOR=0-TT08-TTCAL-DELY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
M-2 6.8 69 105 49.16 PD0 1.42 1.35 0.17 0.10 1.000 0.00-47.54 2.36-50.20 0.000
ANP1 6.8 319 105 48.92 PD0 1.38 1.35 0.02 1.000 0.00-47.54 2.37-49.91 0.000
WSU1 8.5 6 102 49.32 PD0 1.78 1.67 0.11 1.000 0.00-47.54 2.91-50.46 0.000
MBA1 8.6 99 102 49.33 PD0 1.79 1.67 0.12 1.000 0.00-47.54 2.92-50.46 0.000
M-1 10.6 139 99 49.87 PD0 2.33 2.03 0.00 1.000 0.00-47.54 3.55-51.62 0.000
DSP1 12.8 48 97 49.84 PD0 2.30 2.41 -0.12 1.000 0.00-47.54 4.23-51.77 0.000
SRP1 13.5 181 97 50.19 PC0 2.65 2.55 0.10 1.000 0.00-47.54 4.45-52.00 0.000
MWS1 13.8 336 97 49.91 PD0 2.37 2.59 -0.22 1.000 0.00-47.54 4.53-52.07 0.000
LSGS 19.0 86 95 50.95 PD0 3.41 3.52 -0.11 1.000 52.47 4.93 6.16 -1.23 0.000
BRCI 19.5 205 95 51.19 P+0 3.65 3.60 0.04 1.000 0.00-47.54 6.30-53.85 0.000
LCRI 19.7 124 95 50.95 PC0 3.41 3.63 -0.22 1.000 0.00-47.54 6.35-53.90 0.000
CGI 21.5 28 94 51.15 P-4 3.61 3.96 -0.35 0.000 0.00-47.54 6.93-54.47 0.000
RCI 26.0 282 93 52.10 P 0 4.56 4.75 -0.20 1.000 0.00-47.54 8.32-55.86 0.000
HIR 32.6 338 93 53.80 PD0 6.26 5.96 0.30 1.000 0.00-47.54 10.42-57.97 0.000
GCI 35.3 9 92 60.52 P 4 12.98 6.43 6.55 0.000 0.00-47.54 11.25-58.79 0.000
MDCI 43.0 115 92 54.76 PC0 7.22 7.81 -0.59M0.000 58.51 10.47 13.67 -2.70 0.000
MPI 83.5 125 65 1.99 P 0 14.45 14.48 -0.04 1.000 0.00 12.46 25.35-12.89 0.000
JGI 102.1 93 65 4.98 P 0 17.44 17.51 -0.07 1.000 0.00 12.46 30.64-18.18 0.000
CIG 115.6 135 65 7.42 PD0 19.88 19.69 0.19 1.000 0.00 12.46 34.46-22.00 0.000
GBI 152.1 96 55 12.72 P 0 25.18 25.10 0.07L0.000 0.00 12.46 43.93-31.47 0.000
TMI 188.3 120 55 17.91 P 0 30.37 30.43 -0.07L0.000 0.00 12.46 53.26-40.80 0.000
IMW 243.1 96 44 26.02 P 0 38.48 37.59 0.89M0.000 0.00 12.46 65.78-53.33 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E NE NW SE N SW
AVE. OF ENO POINTS 0.05 0.05 0.06 0.11 0.12 0.12 0.16

NUMBER 6
RMS MIN RMS AVE RMS QUALITY D
0.15 -0.07 0.10

83/11/ 8 7/44 -----BEGIN-----BEGIN-----83/11/ 8 7/44

HORIZONTAL SE = 0.65 SE = 0.87 VERTICAL SE = 1.08 QUALITY = A
AZ = -34. AZ = -124.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SDO ADJ IN MR AVR AAR NM AVKM SDHM NF AVFM SDFM
831108 744 6:38 44N16.02 114W 4.95 5.43 2.58 10 14 10% 1 0.08 0.9 1.1 8 818 0.86 10 14 0.00 0.07 0 0.0 0.0 10 2.6 0.4
SE OF ORIG = 0.057 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PHMK<TCOR-0-TT08-TICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAU R FMP FHAG
817 4.1 324 142 7.571PD 1.19 1.26 -0.07 1.031 8.99 2.61 2.20 0.40 0.000 764 36 2.37
816 13.5 131 110 9.021PD 2.54 2.67 -0.03 1.031 11.12 4.74 4.67 0.07 0.722 764 55 2.77
815 13.7 224 110 9.211PC 2.83 2.69 0.13 1.031 11.32 4.94 4.72 0.22 0.000 764 108 3.37
81 15.2 8 108 9.371PC 2.99 2.96 0.03 1.031 12.74 6.36 6.68 -0.32 0.000 764 24 2.07
84 20.2 113 103 10.211PC 3.83 3.82 -0.13 1.031 764 41 2.57
812 32.1 177 98 12.161PC 5.78 5.90 -0.30 0.000 764 51 2.77
811 42.2 149 65 13.64EP 4 7.26 7.56 -0.06 1.031 764 40 2.57
85 44.3 130 65 14.231PC 7.85 7.90 0.14 1.031 764 75 3.17
86 52.4 130 65 15.73EPD 9.35 9.21 -0.07 1.031 764 21 2.07
89 55.6 142 65 16.04EPC 9.66 9.72 -0.07 1.031 764 53 2.87

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE NW E SE N
AVE. OF END POINTS 0.29 0.62 0.65 0.79 0.84 0.92 0.93

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.08 0.44 0.77 A

-----END-----END-----END-----END-----

83/11/ 8 10/56 BEGIN-----BEGIN-----BEGIN-----83/11/ 8 10/56

HORIZONTAL SE = 0.58 SE = 0.68 VERTICAL SE = 1.56
AZ = -119. AZ = -29. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831108 1056 0.29 44M13.67 114W 5.02 8.21 3.13 26 11 102 1 0.13 0.7 1.6 8 A18 0.10 10 47 0.00 0.09 0 0.0 0.0 T 3.1 0.3
SE OF ORIG = 0.062 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-DT108-TICAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTOD TTICAL S-RES S-WT AMX PR RMAG R FMP FMAG
MWSI 5.9 59 140 2.07 PC0 1.78 1.82 -0.04 1.083 0.00 -0.29 3.18 -3.47 0.000 265 2
ANPI 7.6 126 132 2.43 PD0 2.14 2.02 -0.13 1.083 0.00 -0.29 3.53 -3.82 0.000 265 2
817 8.0 343 130 2.191P 4 1.90 2.06 -0.16 0.000 4.33 4.04 4.27 -0.23 0.758 265 73 2.92
915 10.9 239 119 2.831PD 2.54 2.44 0.10 1.083 0.00 -0.29 3.53 -3.82 0.000 265 108 3.32
816 11.2 114 118 2.821PD 2.53 2.49 -0.04 1.083 4.69 4.40 4.36 0.04 0.000 265 2
WSUI 11.6 95 117 2.80 PC0 2.51 2.54 -0.03 1.083 0.00 -0.29 4.65 -4.74 0.000 265 2
RCI 15.4 254 107 3.40 PD0 3.11 3.11 0.00 1.083 0.00 -0.29 5.45 -5.74 0.000 265 2
M-2 18.4 113 102 4.07 PC0 3.78 3.60 0.01 1.083 0.00 -0.29 6.30 -6.88 0.000 265 2
94 19.1 100 101 3.951PC 3.66 3.60 -0.04 1.083 6.75 6.46 6.47 -0.01 0.000 265 86 3.12
91 19.6 7 101 3.811PC3 3.52 3.77 -0.25 0.068 5.96 5.67 6.77 -1.10 0.000 265 2
OSPI 20.2 93 100 4.18 PC0 3.89 3.87 0.02 1.083 0.00 -0.29 6.94 -7.23 0.000 265 2
MIR 20.8 356 99 4.60 PD0 4.31 3.97 0.34 1.083 0.00 -0.29 7.28 -7.57 0.000 265 2
MBAI 22.0 120 98 4.58 PC0 4.29 4.16 -0.13 1.083 0.00 -0.29 7.51 -7.80 0.000 265 2
CGI 22.8 66 97 4.25 PC2 3.96 4.29 0.33 0.271 0.00 -0.29 8.12 -8.93 0.000 265 2
M-1 24.9 135 96 5.38 PD0 5.09 4.64 0.15 1.083 0.00 -0.29 8.26 -8.93 0.000 265 2
BRPI 25.4 156 96 4.99 PD0 4.70 4.72 -0.02 1.063 5.69 5.40 8.26 -2.86 0.000 265 2
8RCI 27.4 175 95 5.24 P-0 4.95 5.04 -0.09 1.083 7.44 7.15 8.81 -1.66 0.000 265 2
812 27.7 176 95 5.401PD 5.11 5.10 0.02 1.083 9.23 8.94 8.92 0.02 0.000 265 94 3.22
GCI 29.9 32 94 5.42 PC0 5.13 5.49 -0.32 1.083 0.00 -0.29 9.53 -9.82 0.000 265 2
LSGS 30.7 105 94 5.79 PC0 5.50 5.57 -0.07 1.083 0.00 -0.29 9.75 -10.04 0.000 265 2
LCRI 33.9 128 93 6.25 PC0 5.96 6.10 -0.14 1.083 0.00 -0.29 10.67 -10.96 0.000 265 2
811 38.6 145 93 7.171P 6.88 6.86 0.02 1.083 13.49 13.20 12.88 0.32 0.000 265 125 3.52
95 41.7 126 93 7.731PD 7.44 7.36 0.08 1.083 0.00 -0.29 10.67 -10.96 0.000 265 41 2.62
86 49.8 126 92 8.981PD 8.69 8.67 -0.01 1.083 0.00 -0.29 10.67 -10.96 0.000 265 81 3.22
39 52.3 139 92 9.351P 9.06 9.07 -0.01 1.063 14.50 14.21 17.17 -2.96 0.000 265 2
MDCI 56.8 119 92 10.05 PC0 9.76 9.81 -0.05 1.083

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH MW M E NE Z SE SW
AVE. OF END POINTS 0.04 0.04 0.10 0.11 0.13 0.15 0.16

NUMBER 9
RMS MIN DRMS AVE DRMS QUALITY D
0.13 -0.04 0.10

83/11/ 8 18/42 BEGIN-----BEGIN-----83/11/ 8 18/42

HORIZONTAL SE = 0.47 SE = 0.81 VERTICAL SE = 0.90 QUALITY = A
AZ = -38. AZ = -128.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFH
831108 1842 47.88 44N12.17 114W 1.02 9.68 2.32 11 13 136 1 0.07 0.8 0.9 8 AIC 0.08 10 14 0.00 0.05 0 0.0 0.0 5 2.3 0.2
SE DF DRIG = 0.046 4 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
STN DIST AZM AIN PSEC PRMK-TCOR-O-TTDB-TTCAL-EDLY= P-RES P-WT TWIC SSEC SRMK TTDB TTAL S-RES S-WT AMX PR XNAG R PMP PMAG
916 5.2 110 149 49.871PD 1.99 1.95 0.04 1.058 51.27 3.39 3.42 -0.03 0.740 267 42 2.52
817 13.0 324 121 50.731PD 2.85 2.86 -0.01 1.058 52.78 4.90 5.00 -0.10 0.000 267 2
84 13.5 93 119 50.781PD 2.90 2.93 -0.03 1.058 53.03 5.15 5.12 0.03 0.740 267 2
81 22.4 352 105 52.171PD 4.29 4.27 0.02 1.058 55.16 7.28 7.47 -0.19 0.000 267 26 2.12
812 25.1 188 102 52.531PC 4.65 4.71 -0.06 1.058 58.66 10.78 10.57 0.21 0.000 267 35 2.42
811 33.4 150 98 54.061P 6.18 6.04 0.14 1.058 267 23 2.12
85 35.8 127 97 54.261P 6.38 6.42 -0.04 1.058 267 40 2.62
86 43.9 127 95 55.481PD 7.60 7.72 -0.12 1.058
89 46.8 141 95 56.121PD 8.24 8.18 0.06 1.058

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW E Z NE SW N
AVE. OF END POINTS 0.12 0.12 0.14 0.16 0.19 0.20 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.07 0.01 0.16 D

-----END-----END-----END-----

83/11/ 8 19/35 -----BEGIN-----BEGIN-----83/11/ 8 19/35

HORIZONTAL SE = 0.37 SE = 0.63 VERTICAL SE = 0.86
AZ = -43. AZ = -133. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND O3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831108 1935 14.68 44N 8.21 113W56.74 10.94 2.45 11 20 75 1 0.06 0.6 0.9 A AIA 1.52 10 14 0.00 0.04 0 0.0 0.0 6 2.5 0.3
SE OF ORIG = 0.041 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR MHAG R FMP FMAG
816 9.6 352 151 10.801PD 2.12 2.16 -0.04 1.028 10.48 3.80 3.78 0.02 0.720 268 41 2.52
84 10.2 49 123 17.311PD 2.63 2.62 0.00 1.028 19.61 4.93 4.59 0.34 0.000 268 2
812 19.8 208 112 18.651PC 3.97 3.95 0.02 1.028 0.01 1.028 268 2
815 20.9 283 111 18.801P 4.12 4.11 0.01 1.028 268 2
817 22.3 323 109 18.941PD 4.26 4.32 -0.06 1.028 268 53 2.72
811 24.3 153 107 19.351PD 4.67 4.63 0.04 1.028 268 39 2.52
85 26.9 122 105 19.811PC 5.13 5.04 0.03 1.028 268 25 2.12
81 30.8 344 102 20.381PC 5.70 5.64 0.06 1.028 268 22 2.02
86 35.0 123 100 20.991PD 6.31 6.32 -0.02 1.028 268 62 2.92
89 37.5 141 99 21.281PC 6.60 6.72 -0.12 1.028

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW N SE
AVE. OF END POINTS 0.47 0.56 0.69 0.90 0.92 1.01 1.12

NUMBER RMS MIN RMS AVE RMS QUALITY
11 0.06 0.49 0.84 A

83/11/ 8 19/35 -----BEGIN-----BEGIN-----83/11/ 8 19/35

HORIZONTAL SE = 0.66 SE = 1.17 VERTICAL SE = 1.56
AZ = -59. AZ = 31. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND O3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831108 1935 57.21 44N 6.53 113W53.43 6.95 2.55 10 20 102 1 0.11 1.2 1.6 B B18 0.53 10 12 0.00 0.10 0 0.0 0.0 9 2.6 0.3
SE OF ORIG = 0.054 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR MHAG R FMP FMAG
816 10.1 329 123 59.501P 2.29 2.24 0.03 1.031 61.29 4.08 3.92 0.16 0.000 269 49 2.62
84 10.3 19 123 59.311P 2.10 2.27 -0.17 1.031 269 49 2.62
811 19.7 161 65 61.131PC 3.92 3.78 0.14 1.031 269 52 2.72
812 19.9 223 65 60.971PC 3.76 3.81 -0.06 1.031 269 62 2.82
85 21.5 121 65 61.401PC 4.19 4.08 0.11 1.031 269 60 2.82
815 26.0 287 65 61.951P 4.74 4.81 -0.07 1.031 269 52 2.72
86 24.6 122 65 62.551PC 5.34 5.40 -0.06 1.031 269 23 2.02
89 32.3 144 65 62.931PD 5.72 5.83 -0.11 1.031 269 51 2.72
81 35.2 338 65 63.551PC 6.46 6.30 0.14 1.031 269 24 2.12

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW Z N NE SW E
AVE. OF END POINTS 0.05 0.05 0.07 0.12 0.14 0.15 0.22

83/11/ 8 20/28 -----BEGIN-----BEGIN-----83/11/ 8 20/28

HORIZONTAL SE = 0.24 SE = 0.44 VERTICAL SE = 0.76 QUALITY = A
AZ = -40. AZ = -130.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM NF AVPM SODM
831108 2028 31.74 44N 6.83 113M55.38 10.69 2.40 11 19 86 1 0.04 0.4 0.8 A AJA 0.11 10 13 0.00 0.03 0 0.0 0.0 6 2.4 0.2
SE DF ORIG = 0.035 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)
SYM DIST AZM AIN PSEC PRMK+TCOR-D=TT08-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 8.5 342 138 34.131PD 2.39 2.41 -0.02 1.058 35.95 4.21 4.21 0.00 0.740 270 32 2.22 270 32 2.22
34 10.9 33 130 34.41PC 2.70 2.69 0.01 1.058 37.50 5.76 6.57 -0.81 0.000 270 35 2.42 270 35 2.42
312 18.6 216 113 35.521PC 3.78 3.76 0.03 1.058 38.95 7.21 7.24 -0.03 0.740 270 39 2.52 270 39 2.52
811 21.2 154 110 35.871PD 4.13 4.14 -0.01 1.058 42.39 10.65 10.26 0.39 0.000 270 43 2.62 270 43 2.62
815 23.4 288 107 36.251PC 4.51 4.47 0.04 1.058 42.39 10.65 10.26 0.39 0.000 270 29 2.22 270 29 2.22
35 24.1 119 107 36.411PC 4.67 4.58 0.09 1.058 270 21 2.02 270 21 2.02
817 25.4 323 105 36.481PC 4.74 4.79 -0.05 1.058 270 43 2.62 270 43 2.62
86 32.1 121 101 37.591PC 5.85 5.86 -0.01 1.058
89 34.3 141 100 37.891PC 6.15 6.21 -0.06 1.058

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW Z N E NE SW
AVE. OF END POINTS 0.10 0.18 0.20 0.20 0.20 0.24 0.26

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.04 0.06 0.19 0

XXXXX

XXXXX

83/11/ 8 20/46 -----BEGIN-----BEGIN-----83/11/ 8 20/46

SE = 0.35 HORIZONTAL SE = 0.50 VERTICAL
AZ = -40. AZ = -130. SE = 0.87 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND 03 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AVKM SODM NF AVFM SDFM
831108 2046 9.99 44N12.11 114W 1.82 7.53 3.14 28 6 74 1 0.10 0.5 0.9 A AIA 0.20 10 57 0.00 0.08 0 0.0 0.0 8 3.1 0.3
SE DF ORIG = 0.029 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TT08-TTCAL-DELAY-EDLY= P-PRES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FPMAG
ANPI 2.5 128 160 11.55 P 0 1.56 1.44 0.12 1.011 0.00 -9.99 2.92-12.51 0.000 770 7
M4SI 5.9 8 136 11.62 P00 1.43 1.75 -0.12 1.011 0.00 -9.99 3.06-13.05 0.000 770 7
B16 6.2 105 135 11.891PD 1.90 1.78 0.12 1.011 13.69 3.70 3.11 0.59 0.000 770 7
ASU1 8.9 62 122 12.15 P 0 2.16 2.12 0.04 1.011 0.00 -9.99 3.70-13.69 0.000 770 7
B17 12.5 328 110 12.561PD 2.57 2.63 -0.06 1.011 14.66 4.67 4.61 0.06 0.708 770 7
M-2 13.4 109 107 13.01 PC0 3.02 2.77 0.17 0.08 1.011 0.00 -9.99 4.85-15.13 0.000 770 7
B15 13.9 259 105 12.921PD 2.93 2.85 0.08 1.011 14.32 4.33 4.99 -0.66 0.000 770 7
B4 14.5 92 104 12.921PC 2.93 2.95 -0.02 1.011 15.53 5.54 5.56 -0.02 0.000 770 7
JSP1 16.0 83 100 13.13 PC0 3.14 3.18 -0.04 1.011 0.00 -9.99 5.82-15.81 0.000 770 7
MBA1 16.9 119 99 13.48 P00 3.49 3.33 0.16 1.011 0.00 -9.99 6.45-16.44 0.000 770 7
RC1 19.1 266 96 13.71 P00 3.72 3.69 0.03 1.011 0.00 -9.99 6.66-17.18 0.000 770 7
M-1 19.9 138 95 14.01 PC0 4.02 3.81 -0.07 0.000 0.00 -9.99 6.87-16.86 0.000 770 7
CG1 20.6 54 95 13.85 P-4 3.86 3.93 -0.03 1.011 0.00 -9.99 7.03-17.02 0.000 770 7
BRPI 21.2 163 94 13.98 PC0 3.99 4.02 -0.12 1.011 0.00 -9.99 7.92-17.91 0.000 770 64 2.97
B1 22.4 355 94 14.081PC 4.09 4.21 0.09 1.011 0.00 -9.99 7.95-17.94 0.000 770 7
MIR 24.3 346 93 14.60 P00 4.61 4.52 -0.04 1.011 0.00 -9.99 8.35 -0.87 0.000 770 7
BRC1 24.4 184 93 14.49 PC0 4.50 4.54 -0.06 1.011 17.47 7.48 8.35 -0.87 0.000 770 88 3.27
B12 24.9 186 93 14.551PC 4.56 4.62 -0.04 1.011 0.00 -9.99 9.20-19.19 0.000 770 7
LSGS 25.8 102 93 14.72 P-0 4.73 4.77 0.04 1.011 0.00 -9.99 9.70-19.69 0.000 770 85 3.27
LCRI 28.8 128 92 15.10 PC0 5.11 5.26 0.11 1.011 0.00 -9.99 15.71-25.71 0.000 770 33 2.47
GCI 30.5 23 92 15.42 PC0 5.43 5.54 -0.15 1.011 -0.02 1.011 -0.02 1.011 770 82 3.27
B11 33.9 148 92 16.071PC 6.08 6.08 0.00 1.011 0.00 -9.99 15.71-25.71 0.000 770 7
B5 36.6 126 91 16.47EPC 6.48 6.52 -0.04 1.011 0.00 -9.99 27.30-37.29 0.000 770 7
B6 44.7 126 91 17.81EP 7.82 7.84 -0.15 1.011 0.00 -9.99 31.98-41.97 0.000 770 78 3.37
B9 47.3 140 91 18.111PD 8.12 8.27 -0.08 1.011 0.00 -9.99 36.46 36.05 0.41 0.000 770 84 3.57
YUCI 51.7 118 91 18.89 P00 8.90 8.98 0.56M0.000 54.69 44.70 44.91 -0.21 0.000 770 78 3.57
MPI 92.5 126 90 26.15 P 0 16.16 15.60 0.24 1.011 0.98M0.000 0.00 -9.99 54.59-64.58 0.000 770 7
JGI 109.1 96 65 28.51 P 0 18.52 18.28 0.16 1.011 0.00 -9.99 66.24-76.23 0.000 770 7
C18 124.8 135 65 30.75 P 0 20.76 20.60 0.98M0.000 0.00 -9.99 66.24-76.23 0.000 770 7
B81 159.3 99 65 36.63 P 0 26.64 25.66 1.19M0.000 0.00 -9.99 66.24-76.23 0.000 770 7
TMI 197.0 120 50 41.33 P 0 31.34 31.19 1.19M0.000 0.00 -9.99 66.24-76.23 0.000 770 7
IMW 250.2 98 50 49.03 P 0 39.04 37.85 1.19M0.000 0.00 -9.99 66.24-76.23 0.000 770 7

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z E SE N NE SW
AVE. OF END POINTS 0.10 0.12 0.13 0.16 0.18 0.18 0.19

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.10 0.06 0.16 D

-----END-----END-----END-----

83/11/ 8 20/59 BEGIN-----BEGIN-----83/11/ 8 20/59

HORIZONTAL SE = 0.60 SE = 0.96 VERTICAL SE = 1.37 QUALITY = A
AZ = -46. AZ = 44.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD 40J IN NR AVR AAR NM AVXM SOXM MF AVFM SDFM
#31108 2059 7.91 44N12.26 114W 2.00 8.44 2.26 11 14 98 1 0.09 1.0 1.4 8 818 0.05 10 15 0.00 0.08 0 0.0 0.0 10 2.3 0.8
SE OF ORIG = 0.037 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTCAL-DELY=P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
916 6.5 107 138 9.821PD 1.91 1.92 -0.01 1.028 11.31 3.40 3.36 0.04 0.720 271 3 0.22
917 12.1 328 117 10.491PD 2.58 2.63 -0.05 1.028 13.28 5.37 5.03 0.34 0.000 271 34 2.32
915 13.7 258 113 10.851PC 2.94 2.88 0.06 1.028 12.89 4.98 5.31 -0.33 0.000 271 51 2.72
94 14.8 93 110 10.971PD 2.96 3.04 -0.08 1.028 18.33 10.42 10.77 -0.35 0.000 271 67 2.92
91 22.1 356 99 12.131PC 4.22 4.19 0.03 1.028 18.93 11.02 11.53 -0.51 0.000 271 30 2.22
912 25.2 185 97 12.881PC 4.57 4.67 -0.10 1.028 271 45 2.62
911 34.2 148 94 14.151P 6.24 6.15 0.09 1.028 271 35 2.42
95 36.9 126 94 14.381PC 6.47 6.59 -0.12 1.028 271 66 3.02
96 45.0 126 93 16.011P 8.10 7.90 0.20 1.028 271 16 1.82
99 47.7 140 92 16.191P 8.28 8.33 -0.05 1.028 271 47 2.72

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM SE SW NE E Z N
AVE. OF END POINTS 0.09 0.10 0.15 0.15 0.16 0.19 0.19

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.09 0.04 0.15 0

HORIZONTAL SE = 0.59 SE = 0.71 VERTICAL SE = 1.09
AZ = 33. AZ = -57. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
831108 2220 41.62 44N15.34 114W 5.78 5.11 3.28 29 10 102 1 0.16 0.7 1.1 8 618 0.45 10 58 0.00 0.12 0 0.0 0.0 9 3.3 0.3
SE OF ORIG = 0.055 3 ITERATIONS TOTAL

VARI (---- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)																									
STN	DIST	AZM	AIN	PSEC	PRMK	TCOR	Q-TTOR	TTTAL	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTOR	TTTAL	S-RES	S-WT	AMX	PR	KMAG	R	FMP	FMAG	
017	4.8	344	135	43.031PD				1.41	1.30	0.12	1.010		45.13	3.51	2.27	1.25	0.000				272	2			
MNSI	6.0	91	129	43.08 P+0				1.46	1.66	0.00	1.010		0.00	-41.62	2.55	-44.17	0.000				272	2			
ANPI	10.4	136	114	43.75 P 0				2.13	2.13	0.00	1.010		0.00	-41.62	3.73	-45.35	0.000				272	2			
015	12.0	224	111	44.131PC				2.51	2.39	0.12	1.010		45.93	4.31	4.19	0.12	0.707				272	2			
MSUI	13.2	108	109	44.30 PC0				2.68	2.60	0.08	1.010		0.00	-41.62	4.56	-46.17	0.000				272	2			
MSUI	13.3	98	109	44.30 P 0				2.68	2.61	0.07	1.010		0.00	-41.62	4.57	-46.18	0.000				272	2			
016	13.6	124	109	44.401PC				2.78	2.67	0.12	1.010		0.00	-41.62	5.26	-46.88	0.000				272	2			
RCI	15.6	242	106	44.62 PC0				3.00	3.00	0.00	1.010		0.00	-41.62	5.87	-47.43	0.000				272	73	3.02		
01	16.7	12	105	44.711PC				3.09	3.19	-0.09	1.010		0.00	-41.62	6.80	-48.72	0.000				272	2			
01R	17.7	359	104	45.00 PD0				3.38	3.36	0.03	1.010		0.00	-41.62	7.05	-48.66	0.000				272	2			
04	20.7	120	102	45.81 P+0				4.19	3.89	0.16	1.010		0.00	-41.62	7.41	-49.03	0.000				272	2			
04	20.8	108	102	45.501P				3.88	3.91	-0.02	1.010		0.00	-41.62	7.93	-49.57	0.000				272	2			
05P1	21.5	101	102	45.62 PC0				4.00	4.03	-0.02	1.010		0.00	-41.62	7.41	-49.03	0.000				272	2			
CGI	22.7	74	101	45.85 PC0				4.23	4.23	0.00	1.010		0.00	-41.62	7.95	-49.57	0.000				272	2			
08A1	24.5	125	100	46.25 PC0				4.63	4.54	0.09	1.010		0.00	-41.62	9.00	-51.15	0.000				272	2			
04-1	27.8	138	99	47.02 P+0				5.40	5.14	-0.04	1.010		0.00	-41.62	9.04	-50.66	0.000				272	2			
CGI	28.0	37	99	46.52 PC0				4.90	5.17	-0.27	1.010		48.92	7.30	9.26	-1.96	0.000				272	2			
08P1	28.6	156	99	46.77 PC0				5.15	5.29	-0.14	1.010		0.00	-41.62	9.84	-51.46	0.000				272	2			
08C1	30.5	174	98	47.84 PC0				5.42	5.63	-0.20	1.010		0.00	-41.62	9.84	-51.46	0.000				272	2			
012	30.9	175	98	47.121PC				5.50	5.69	-0.19	1.010		50.87	9.25	9.95	-0.70	0.000				272	2			
LSGS	32.6	110	98	47.48 P+0				5.86	5.99	-0.12	1.010		0.00	-41.62	10.47	-52.09	0.000				272	2			
LCRI	36.7	130	65	47.99 PC0				6.37	6.68	-0.31	1.010		0.00	-41.62	11.69	-53.31	0.000				272	2			
011	41.8	147	65	49.141PD				7.52	7.51	-0.02	1.010		0.00	-41.62	29.77	-71.39	0.000				272	82	3.12		
05	44.4	128	65	49.411PC				7.79	7.94	-0.14	1.010		55.32	13.70	13.89	-0.19	0.000				272	121	3.52		
06	52.5	128	65	50.991PD				9.37	9.25	-0.12	1.010		0.00	-41.62	32.71	-71.39	0.000				272	42	2.62		
09	55.3	140	65	51.201PD				9.58	9.70	-0.12	1.010		0.00	-41.62	38.16	-71.39	0.000				272	114	3.52		
08P1	100.3	127	65	59.11 P 0				17.49	17.01	0.48	1.010		0.00	-41.62	29.77	-71.39	0.000				272	72	3.22		
01	114.9	99	55	1.20 P 0				19.58	19.36	0.22	1.010		16.33	32.71	33.89	-1.18	0.000				272	70	3.32		
015	132.8	136	55	4.06 PD0				22.44	22.00	0.44	0.000		19.78	38.16	38.50	-0.34	0.000				272	85	3.52		
081	165.5	100	55	8.94 P 0				27.32	26.80	0.52	0.000		0.00	18.38	46.91	-28.52	0.000				272	2			
081	204.6	121	44	14.18 P 0				32.56	32.44	0.12	0.000		0.00	18.38	56.78	-38.40	0.000				272	97	3.92		
1MW	255.9	99	44	20.69 P 0				39.07	38.86	0.21	0.000		0.00	18.38	68.00	-49.62	0.000				272	2			

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH										AVERAGE OF ENO POINTS									
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY	A	Z	NW	SW	SE	NE	E	N					
29	0.16	0.36	0.67	0.21	0.54	0.60	0.71	0.72	0.72	0.77	0.80								

03/11/ 8 23/32 BEGIN-----BEGIN-----93/11/ 8 23/32

HORIZONTAL SE = 0.41 SE = 0.54 VERTICAL SE = 0.57
AZ = -27. AZ = -117. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM MF AVFM SDFM
931108 2332 43.03 44M13.98 114W 3.39 6.81 3.36 31 8 74 1 0.12 0.5 0.6 A IA 0.06 10 86 0.00 0.09 0 0.0 0.0 13 3.4 0.4
SE OF DRIC = 0.031 10 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STM DIST AZM AIM PSEC PRK+TCOR-0+TTOR-TTCAL-DELAY-EDLY= P-RES P-WI TMIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
NWSI 3.8 50 150 44.30 P 0 1.27 1.43 -0.16 1.020 0.00-43.03 2.50-45.53 0.000
AMPI 6.4 141 136 44.75 P 0 1.72 1.71 0.00 1.020 0.00-43.03 3.00-46.03 0.000
817 8.4 328 128 45.01 P 0 1.98 1.98 0.00 1.020 46.52 3.49 3.47 0.02 0.714 79 3.0
WSUI 9.5 100 124 45.29 P 0 2.26 2.14 0.12 1.020 46.53 3.50 3.76 -0.26 0.000 83 3.0
816 9.6 122 124 45.30 P 0 2.27 2.15 0.12 1.020 51.50 8.47 4.70 3.76 0.000 116 3.4
815 13.0 242 116 45.78 P 0 2.75 2.69 0.06 1.020 48.60 5.57 5.85 -0.28 0.000
M-2 16.7 118 111 46.52 P 0 3.49 3.29 0.03 1.020 49.00 5.97 5.87 0.10 0.000 130 3.5
FSD 17.0 107 110 46.35 P 0 3.32 3.34 -0.02 1.020 0.00-43.03 6.03-49.06 0.000
84 17.1 104 110 46.34 P 0 3.31 3.35 0.05 1.020 0.00-43.03 6.14-49.18 0.000
RCI 17.6 254 110 46.53 P 0 3.50 3.45 -0.03 1.020 49.37 6.34 6.39 -0.05 0.714 82 3.1
DSPI 18.0 95 109 46.51 P 0 3.48 3.51 -0.03 1.020 0.00-43.03 6.86-49.89 0.000
81 18.9 1 108 46.59 P 0 3.56 3.65 0.03 1.020 0.00-43.03 6.87-49.90 0.000
M8AI 20.5 124 65 46.98 P 0 3.95 3.92 0.09 1.020 0.00-43.03 6.91-49.94 0.000
MIR 20.5 350 65 47.05 P 0 4.02 3.93 -0.03 1.020 0.00-43.03 7.82-51.37 0.000
CGI 20.6 65 65 46.95 P 0 3.92 3.95 0.13 1.020 49.56 6.53 8.19 -1.66 0.000 114 3.4
M-1 23.8 140 65 47.93 P 0 4.90 4.67 0.06 1.020 56.49 13.46 8.95 4.50 0.000
8RPI 25.1 161 65 47.76 P 0 4.73 4.68 -0.06 1.020 51.92 8.89 9.07 -0.18 0.000
8RCI 27.8 180 65 48.09 P 0 5.06 5.12 0.06 1.020 0.00-43.03 9.10-52.13 0.000
812 28.2 181 65 48.15 P 0 5.12 5.18 0.06 1.020 0.00-43.03 9.22-52.25 0.000
CCI 28.3 29 65 48.42 P 0 5.19 5.20 -0.01 1.020 0.00-43.03 10.31-53.34 0.000
LSGS 28.7 108 65 48.17 P 0 5.14 5.27 -0.13 1.020 56.08 13.05 11.82 1.23 0.000 76 3.1
LCRI 32.6 131 65 48.59 P 0 5.66 5.59 -0.23 1.020 55.13 12.10 12.51 -0.41 0.000 114 3.4
85 40.3 128 65 50.21 P 0 6.55 6.76 -0.21 1.020 56.41 13.38 14.81 -1.43 0.000 45 2.7
84 48.4 128 65 51.34 P 0 8.31 8.46 -0.15 1.020 58.49 15.46 15.63 -0.17 0.000 106 3.4
84 51.3 141 65 51.87 P 0 8.84 8.93 -0.09 1.020 0.00-43.03 16.74-59.77 0.000
MDCI 55.2 120 65 52.83 P 0 9.60 9.57 0.03 1.020 0.00-43.03 28.39-71.43 0.000
MPI 96.3 127 65 59.52 P 0 16.49 16.23 0.26 1.020 0.00 16.97 32.68 -15.71 0.000
JCI 111.4 98 55 2.04 P 0 19.01 18.67 0.33 1.020 17.12 34.69 37.16 -2.47 0.000 121 3.8
CIR 124.8 136 55 4.82 P 0 21.79 21.23 0.55M0.000 0.00 16.97 45.68-28.71 0.000 128 4.0
G8I 161.9 100 55 9.80 P 0 26.77 26.10 0.66M0.000 0.00 16.97 51.50-34.53 0.000
T1J 171.4 242 55 11.48 P 0 28.45 27.50 0.75M0.000 0.00 16.97 54.63-37.66 0.000
CPI 184.5 257 55 10.98 P 0 27.95 29.43 -1.48M0.000 39.50 56.37 55.51 0.86 0.000
CMI 196.7 80 55 15.40 P 0 32.37 31.22 1.15M0.000 0.00 16.97 55.79-38.82 0.000
T-1 200.6 121 44 14.98 P 0 31.95 31.72 0.23U0.000 0.00 16.97 59.17-42.20 0.000
KCI 201.8 108 44 15.70 P 0 32.67 31.68 0.79M0.000 0.00 16.97 64.31-47.34 0.000
LRM 217.3 36 44 16.50 P 0 33.47 33.81 -0.34U0.000 0.00 16.97 65.80-48.83 0.000
API 240.8 244 44 22.08 P 0 39.05 36.75 2.30M0.000 0.00 16.97 66.85-49.88 0.000
LCCM 247.6 44 44 20.30 P 0 37.27 37.60 -0.33U0.000 57.90 74.87 74.75 0.08 0.000
IMW 252.4 99 44 22.56 P 0 39.53 38.20 1.33M0.000 0.00 16.97 75.33-58.36 0.000
MPI 263.3 152 44 24.10 P 0 41.67 39.56 2.11M0.000 0.00 16.97 79.22-62.25 0.000
MSO 268.7 2 44 24.90 P 0 41.87 42.74 -0.87M0.000 0.00 16.97 75.33-58.36 0.000
MLI 291.2 147 44 28.60 P 0 45.57 43.05 2.52M0.000 0.00 16.97 79.22-62.25 0.000
SXM 309.0 46 44 28.50 P 0 45.47 45.27 0.20U0.000

83/11/ 8 23/39 -----BEGIN-----BEGIN-----83/11/ 8 23/39

HORIZONTAL SE = 0.99 SE = 1.57 VERTICAL SE = 1.22 QUALITY = A
AZ = -121. AZ = -31.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
#31108 2339 18.61 44N25.20 114N 3.82 4.63 2.25 17 14 176 1 0.13 1.6 1.2 C WIC 0.47 10 18 0.00 0.10 0 0.0 0.0 16 2.3 0.4
SE OF ORIG = 0.122 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AZM PSEC PRMK+TCOR-D-TTDB-TICAL-DELT-EDLV= P-RES P-WT TMIC SSEC SRMK TTDB TICAL S-RES S-WT AMX PR IMAG R FMP FRAG
#1 2.1 159 155 19.451PD 0.84 0.94 -0.10 1.000 274 34 2.22
#17 3.1 259 145 19.631PD 1.02 1.03 -0.02 1.000 274 30 2.12
#17 14.2 196 106 21.351PC 2.74 2.74 0.00 1.000 274 37 2.32
#17 14.9 75 105 21.571PD 2.96 2.86 0.09 1.000 274 50 2.62
#NSI 18.7 169 102 22.19EPD 3.58 3.51 0.07 1.000 274 12 1.42
#NSUI 22.7 152 100 22.55EPD 3.94 4.22 -0.29 1.000 25.28 6.67 6.14 0.53 0.000 274 25 2.02
#16 27.3 162 98 23.731PC 5.12 5.04 0.08 1.000 274 37 2.42
#15 29.0 202 98 24.031PD 5.42 5.34 0.07 1.000 274 49 2.62
#OSPI 29.0 140 98 23.98EPC 5.37 5.34 0.02 1.000 274 19 1.82
#4 30.2 145 97 24.451P 5.84 5.55 0.29 1.000 274 60 2.82
#MAI 36.7 152 96 25.27EPC 6.66 6.71 -0.06 1.000 274 21 1.92
#LSGS 40.6 137 65 25.83EPC 7.22 7.35 -0.14 1.000 274 18 1.82
#12 49.0 180 65 27.30EPD 8.69 8.72 -0.04 1.000 274 57 2.92
#5 56.0 145 65 28.391PC 9.78 9.85 -0.07 1.000 274 34 2.42
#11 56.9 159 65 28.76EPC 10.15 10.00 0.15 1.000 274 18 1.92
#6 63.6 142 65 29.59EPD 10.98 11.09 -0.12 1.000 274 44 2.72
#9 69.0 151 65 30.63EPC 12.02 11.96 0.06 1.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW NE N Z SW E
AVE. OF END POINTS 0.07 0.07 0.08 0.08 0.10 0.11 0.13

NUMBER RMS MIN DRMS AVE DRMS QUALITY
14 0.13 0.04 0.09 0

-----END-----END-----END-----END-----

83/11/ 9 -----BEGIN-----BEGIN-----83/11/ 9 7/41

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SDO ADJ IN MR AVR AAR NM AVXM SDOX NF AVFM SDFM
031109 741 42.10 44N 8.05 113W56.79 5.46 2.91 29 7 74 1 0.16 0.7 1.0 8 0.19 10 57 0.00 0.13 0 0.0 0.0 14 2.9 0.3
SE DF ORIG = 0.038 7 ITERATIONS TOTAL

SE = 0.47 HORIZONTAL SE = 0.65 VERTICAL
AZ = -47. AZ = 43. St = 0.96 QUALITY = A

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)

STN	OIST	AZM	AIN	PSEC	PRMK+TCOR-D=TT08-TTICAL-DELAY-EDLY=	P-RES	P-WT	TMIC	SSEC	SRMK	TT08	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
816	4.5	351	140	43.501PD	1.40	1.30	0.10	1.010	0.00-42.10	2.67-45.07	0.000	277	48	2.52	277	2	277	2	277	2
M-2	6.2	74	130	43.94 P00	1.84	1.53	0.17	1.010	0.00-42.10	2.75-44.85	0.000	277	2	277	2	277	2	277	2	
AMPI	6.6	313	128	43.65 P00	1.55	1.57	-0.02	1.010	0.00-42.10	3.08-45.17	0.000	277	2	277	2	277	2	277	2	
MSUI	7.9	4	123	43.87 P00	1.77	1.76	0.02	1.010	0.00-42.10	3.20-45.30	0.000	277	113	3.32	277	2	277	2	277	2
4841	8.4	104	122	44.08 P00	1.98	1.83	-0.15	1.010	0.00-42.10	3.74-45.84	0.000	277	2	277	2	277	2	277	2	
484	9.5	55	118	44.091PD	1.93	2.01	-0.01	1.010	0.00-42.10	3.92-46.36	0.000	277	2	277	2	277	2	277	2	
MSUI	10.3	7	116	44.25 P 0	2.15	2.14	0.02	1.010	0.00-42.10	4.07-46.71	0.000	277	2	277	2	277	2	277	2	
M-1	10.9	143	115	44.75 P00	2.65	2.24	0.30	1.010	0.00-42.10	4.31-47.21	0.000	277	2	277	2	277	2	277	2	
CSPI	12.1	49	112	44.51 P00	2.41	2.44	-0.02	1.010	0.00-42.10	4.62-48.64	0.000	277	2	277	2	277	2	277	2	
MMSI	13.3	334	110	44.45 P00	2.35	2.64	-0.28	1.010	0.00-42.10	4.80-49.20	0.000	277	2	277	2	277	2	277	2	
BRPI	14.2	182	109	44.97 P00	2.87	2.79	0.09	1.010	0.00-42.10	5.21-5.21	0.000	277	2	277	2	277	2	277	2	
LSGS	18.6	87	105	45.60 P00	3.50	3.54	-0.04	1.010	0.00-42.10	6.19-6.19	0.000	277	2	277	2	277	2	277	2	
LCRI	19.8	127	104	45.60 P 0	3.50	3.74	-0.23	1.010	0.00-42.10	6.52-6.52	0.000	277	2	277	2	277	2	277	2	
815	20.6	280	103	46.10EPC	4.00	3.88	0.12	1.010	0.00-42.10	6.80-6.80	0.000	277	2	277	2	277	2	277	2	
CGI	20.8	28	103	45.95 P00	3.85	3.91	-0.06	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
312	20.8	206	103	46.101PC	4.00	3.92	0.08	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
917	21.3	321	103	46.09EPD	3.95	4.00	-0.05	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
811	25.3	154	101	46.69EPC	4.59	4.71	-0.11	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
RCI	26.2	280	100	47.13 P00	5.03	4.86	0.18	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
85	27.6	124	100	47.021PC	4.92	5.12	-0.19	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
81	29.6	343	99	47.571PD	5.47	5.48	0.00	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
MIR	32.2	337	65	48.20 P 0	6.10	5.92	0.18	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
UCI	34.6	8	65	48.35 P00	6.25	6.32	-0.06	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
86	35.7	124	65	48.361PD	6.26	6.50	-0.23	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
89	38.4	142	65	48.921P	6.82	6.94	-0.11	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
MDCI	43.0	115	65	49.57 P00	7.47	7.68	-0.20	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
MPI	83.6	125	65	56.76 P 0	14.66	14.27	0.39	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
JGI	101.8	93	65	59.56 P 0	17.46	17.23	0.23	1.010	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
CIA	115.8	136	55	2.28 P 0	20.18	19.46	0.72	M0-000	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
GBI	131.8	97	55	7.36 P 0	25.26	24.76	0.50	M0-000	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
TMI	188.4	120	55	12.58 P 0	30.48	30.13	0.35	M0-000	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	
IMW	242.8	97	44	21.87 P 0	39.77	37.17	2.60	M0-000	0.00-42.10	6.85-68.94	0.000	277	2	277	2	277	2	277	2	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH M NW SW Z E SE WE
AVE. DF END POINTS 0.05 0.06 0.08 0.09 0.11 0.12 0.13

NUMBER RMS MIN DRMS AVE DRMS QUALITY
13 0.16 0.00 0.10

83/11/ 9 10/15 -----BEGIN----- 83/11/ 9 10/15

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
 #31109 1015 16.79 43W45.93 113W42.87 6.03 11 36 317 1 0.18 34.0 99.0 0 0.11 10 22 0.00 0.15 0 0.0 0.0 0.0 0.0
 SE OF ORIG = 10.000 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
 STN DIST AZM AIM PSEC PRMK+TCOR-D-TTOD-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOD TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 LCRI 30.8 355 65 22.07 P 0 5.28 5.66 -0.38 1.073 0.00-16.79 9.90-26.69 0.000
 SRPI 34.1 326 65 23.16 P0 6.37 6.19 0.18 1.073 0.00-16.79 10.84-27.63 0.000
 M-1 35.8 340 65 23.76 P+0 6.97 6.48 0.30 0.19 1.073 0.00-16.79 11.34-28.65 0.000
 LSGS 43.3 0 65 24.78 PC0 7.99 7.68 0.31 1.073 28.48 11.69 13.64 -1.75 0.000
 M-2 45.9 344 65 24.96 P-0 8.17 8.11 0.17 -0.11 1.073 0.00-16.79 14.20-31.29 0.000
 NSPI 51.3 349 65 25.67 P-0 6.88 8.98 -0.10 1.073 0.00-16.79 15.71-32.50 0.000
 MSUI 55.5 342 65 26.40 P 0 9.61 9.66 -0.05 1.073 0.00-16.79 16.91-33.70 0.000
 CGI 61.3 352 65 27.45 P-2 10.66 10.62 0.04 0.268 0.00-16.79 18.58-35.37 0.000
 RCI 64.8 317 65 27.84 P 0 11.05 11.18 -0.13 1.073 0.00-16.79 19.57-36.35 0.000
 GCI 77.8 350 65 30.12 P 0 13.33 13.29 0.04 1.073 0.00-16.79 23.26-40.05 0.000
 MIR 78.5 337 65 30.23 PC0 13.44 13.40 0.04 1.073 0.00-16.79 23.46-40.25 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E N SW Z NE
 AVE. OF END POINTS -0.02 -0.02 -0.01 -0.01 0.01 0.01 0.03 0.03

NUMBER RMS MIN DRMS AVE DRMS QUALITY
 11 0.19 -0.06 0.00 0

83/11/ 9 10/15 -----BEGIN----- 83/11/ 9 10/15

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
 #31109 1015 16.27 43W44.54 113W42.07 4.94 11 39 319 1 0.18 26.6 4.9 0 0.10 1.97 10 22 0.00 0.15 0 0.0 0.0 0.0 0.0
 SE OF ORIG = 2.395 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
 STN DIST AZM AIM PSEC PRMK+TCOR-D-TTOD-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOD TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 LCRI 33.5 354 97 22.07 P 0 5.80 6.16 -0.34 1.073 0.00-16.27 10.74-27.01 0.000
 SRPI 36.8 327 65 23.16 P0 6.89 6.72 0.17 1.073 0.00-16.27 11.76-28.03 0.000
 M-1 38.6 340 65 23.76 P+0 7.49 7.01 0.30 0.18 1.073 0.00-16.27 12.27-29.06 0.000
 LSGS 45.8 359 65 24.78 PC0 8.51 8.18 0.33 1.073 28.48 12.21 14.32 -2.11 0.000
 M-2 48.7 344 65 24.96 P-0 8.69 8.64 0.17 -0.13 1.073 0.00-16.27 15.13-31.70 0.000
 NSPI 54.0 349 65 25.67 P-0 9.40 9.50 -0.10 1.073 0.00-16.27 16.63-32.90 0.000
 MSUI 58.2 341 65 26.40 P 0 10.13 10.19 -0.06 1.073 0.00-16.27 17.84-34.11 0.000
 CGI 64.0 351 65 27.45 P-2 11.18 11.14 0.04 0.268 0.00-16.27 19.49-35.76 0.000
 RCI 67.4 318 65 27.84 P 0 11.57 11.68 -0.12 1.073 0.00-16.27 20.45-36.72 0.000
 GCI 80.5 350 65 30.12 P 0 13.85 13.82 0.03 1.073 0.00-16.27 24.18-40.45 0.000
 MIR 81.3 337 65 30.23 PC0 13.96 13.94 0.02 1.073 0.00-16.27 24.39-40.66 0.000

QUALITY EVALUATION

HORIZONTAL SE = 0.94 SE = 1.71 VERTICAL SE = 1.22
AZ = -115. AZ = -25. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG HD 03 GAP M RMS ERM ERZ Q SDO AOJ IN NR AVR AAR NM AVIM SOXM MF AVFM SOFM
#31109 925 4.56 44N25.95 114W 3.54 3.81 3.62 26 14 200 1 0.16 1.7 1.2 C 810 0.30 10 0.1 0.00 0.13 0 0.0 0.0 8 3.6 0.3
SE OF ORIG = 0.135 9 ITERATIONS TOTAL

STATION DATA -> (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -->									
STN	DIST	AIM	AIN	PSC	PRMK	TCOR	Q-TTDB	TTCL	TTCL
41	3.3	174	137	5.64	IPC0		1.08	0.95	0.13
MIR	4.0	240	132	5.60	P 0		1.04	1.03	0.01
GCI	14.3	80	102	7.12	P 0		2.56	2.70	-0.15
817	15.6	196	101	7.63	IPC0		3.07	2.96	0.11
MWSI	20.0	171	99	8.21	P 0		3.65	3.72	-0.07
CGL	23.1	125	97	8.85	P 0		4.29	4.28	0.01
MSUI	25.7	158	97	9.46	P00		4.90	4.73	0.17
ANPI	27.5	171	96	9.75	P 0		5.19	5.05	0.13
816	28.5	163	96	9.86	IPC0		5.30	5.24	0.06
JSPI	29.9	143	96	9.77	P 0		5.21	5.48	-0.27
315	30.4	202	96	10.12	IPC0		5.56	5.58	-0.02
84	31.1	147	95	10.29	P 0		5.73	5.70	0.03
RCI	31.7	212	95	10.21	P 0		5.65	5.81	-0.16
M-2	33.5	153	95	10.74	P00		6.18	6.12	-0.11
M8AI	37.8	153	94	11.32	P 0		6.76	6.89	-0.13
LSGS	41.4	138	94	11.81	P 2		7.25	7.52	-0.27
M-1	43.3	159	65	12.86	P+0		8.30	7.85	0.15
8RPI	46.7	169	65	13.11	P 2		8.55	8.40	0.15
LCRI	50.1	150	65	13.28	P 0		8.72	8.95	-0.23
812	50.4	180	65	13.60	IPC0		9.04	9.01	0.03
81	56.9	146	65	14.52	IPC0		9.36	10.06	-0.10
811	58.1	160	65	14.60	IPC0		10.06	10.25	-0.21
86	64.5	143	65	15.82	IPC0		11.26	11.30	-0.04
89	70.0	152	65	16.73	IPC0		12.17	12.19	-0.02
MPI	111.1	136	65	23.86	P00		19.30	18.86	0.44
JGI	116.6	109	55	24.54	P00		19.98	19.74	0.24
C18	145.6	142	55	29.11	P00		24.55	24.01	0.54
G81	167.0	107	55	32.34	P00		27.78	27.16	0.62
T10	182.6	235	55	34.29	P 0		29.73	29.45	0.28
CPI	190.1	251	55	33.99	P 0		29.43	30.56	-1.13
CMI	194.1	87	55	37.70	P 0		33.14	31.14	2.00
KCI	209.7	114	44	38.70	PC0		34.14	33.24	0.90
BUT	211.4	34	44	37.30	P 0		32.74	33.45	-0.71
TM1	212.8	126	44	38.48	P00		33.92	33.63	0.29
LCCM	232.1	48	44	39.80	P 0		35.24	36.04	-0.80
MPI	250.8	240	44	43.69	P 0		39.13	38.38	0.75
IMW	256.4	103	44	45.02	P 0		40.46	39.08	1.38
MSO	266.5	2	44	43.40	P 0		38.84	40.35	-1.51
MPI	283.0	154	44	49.26	P 0		44.70	42.41	2.29
NCM	307.9	353	44	49.30	P00		44.74	45.52	-0.78
MLI	310.0	150	44	52.92	P 0		48.36	45.79	2.57

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SE NW NE Z E SW

83/11/ 9 11/40 -----BEGIN----- 83/11/ 9 11/40

HORIZONTAL SE = 1.01 VERTICAL SE = 3.30
AZ = -29. AZ = -119. QUALITY = B

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SDFM
831109 1142 45.82 44N 9.10 113W58-33 9.83 2.36 11 19 79 1 0.07 0.7 1.6 A AIA 0.05 10 15 0.00 0.06 0 0.0 0.0 10 1.9 0.2
SE OF ORIG = 0.058 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
811 9.0 170 121 50.02IPC 2.12 2.11 0.01 1.024 50.60 2.70 3.69 -0.99 0.000 279 26 2.02
812 10.0 269 117 50.12EPD 2.22 2.25 -0.03 1.024 52.16 4.26 4.48 -0.22 0.000 279 19 1.82
813 12.1 353 110 50.57IPD 2.67 2.56 0.11 1.024 54.16 6.26 6.56 -0.30 0.000 279 20 1.82
814 13.5 96 105 50.82IPC 2.92 2.78 0.14 1.024 54.62 6.72 7.15 -0.43 0.000 279 2 2
815 19.3 256 94 51.58IPC 3.68 3.70 -0.03 1.024 55.75 7.85 8.30 -0.45 0.000 279 30 2.22
816 19.5 355 94 51.56IPD 3.66 3.75 -0.09 1.024 59.02 11.12 11.87 -0.75 0.000 279 2
817 20.9 107 93 52.02EPC4 4.12 3.98 0.14 0.000 279 11 1.32
818 21.0 331 93 51.83EPD 3.93 4.00 -0.07 1.024 279 24 2.02
819 21.6 139 93 51.81IPD 3.91 4.09 -0.18 1.024 279 27 2.12
820 25.6 341 92 52.85EPC 4.95 4.74 0.21 1.024 279 2
821 34.6 300 91 56.06EP 6.16 6.20 -0.04 1.024 279 24 2.12
822 38.2 323 91 56.79EP 6.89 6.78 0.11 1.024 279 21 2.02
823 46.1 337 91 56.04EPD 8.14 8.06 0.08 1.024 279 15 1.72

QUALITY EVALUATION

DIAGNALS IN ORDER OF STRENGTH SE M NE SW E NW Z
AVE. OF END POINTS 0.06 0.07 0.10 0.11 0.12 0.12 0.12

NUMBER RMS MIN ORMS AVE ORMS QUALITY
7 0.13 0.01 0.10

83/11/ 9 11/42 -----BEGIN----- 83/11/ 9 11/42

HORIZONTAL SE = 0.69 VERTICAL SE = 1.60
AZ = -58. AZ = 32. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SDFM
831109 1142 45.82 44N 9.10 113W58-33 9.83 2.36 11 19 79 1 0.07 0.7 1.6 A AIA 0.05 10 15 0.00 0.06 0 0.0 0.0 10 2.4 0.3
SE OF ORIG = 0.058 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
816 4.2 19 155 47.76IPD 1.94 1.89 0.05 1.028 48.19 2.37 3.31 -0.94 0.000 779 28 2.17
817 11.1 63 127 48.39IPC 2.57 2.61 -0.03 1.028 51.79 5.97 6.56 1.41 0.000 779 58 2.87
818 18.5 279 110 49.49IPD 3.67 3.69 0.01 1.028 52.19 6.37 6.45 -0.08 0.720 779 40 2.57
819 19.7 325 108 49.53IPD 3.77 3.86 -0.03 1.028 52.72 6.90 6.97 -0.07 0.000 779 31 2.37
820 20.5 200 107 49.87IPD 4.05 3.98 0.07 1.028 54.83 9.01 8.70 0.32 0.000 779 41 2.57
821 26.7 151 102 50.88EPD 5.06 4.97 0.09 1.028 779 31 2.37
822 28.7 347 100 51.22EP 5.40 5.28 0.12 1.028 779 22 2.07
823 29.6 123 100 51.24IPC 5.42 5.43 0.00 1.028 779 53 2.97
824 37.7 123 97 52.45IPD 6.63 6.72 -0.09 1.028 779 18 1.47
825 40.1 140 96 52.87EPD 7.05 7.11 -0.06 1.028 779 44 2.67

QUALITY EVALUATION

83/11/ 9 14/ 6 -----BEGIN-----BEGIN-----83/11/ 9 14/ 6

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SDXM NF AVFM SDFM
 831109 14 6 52.07 44M10.09 113W58.67 10.74 2.62 10 18 127 1 0.04 0.9 1.3 8 A18 0.20 10 10 0.00 0.03 0 0.0 0.0 8 2.6 0.4
 SE OF ORIG = 0.075 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --
 STN DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 816 2.8 41 164 53.991PC 1.92 1.95 -0.03 1.064 56.73 4.66 4.68 -0.01 0.745 283 42 2.52
 84 10.8 73 131 54.791PC 2.72 2.67 0.05 1.064 58.42 6.35 6.36 -0.01 0.745 283 90 3.22
 815 17.9 274 115 55.701PC 3.63 3.63 0.00 1.064 283 50 2.72
 812 22.1 198 109 56.371PC 4.30 4.28 0.03 1.064 283 55 2.02
 811 28.5 152 103 57.39EPC 5.32 5.28 0.05 1.064 283 36 2.42
 85 31.0 125 102 57.701PC 5.71 5.68 0.03 1.064 283 75 3.12
 86 39.1 125 98 59.021PC 6.95 6.97 -0.02 1.064 283 17 1.82
 89 41.8 141 98 59.38EPC 7.31 7.40 -0.09 1.064 283 43 2.62

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z M NE NW SW SE E
 AVE. OF END POINTS 0.40 0.70 0.72 0.77 0.90 1.06 1.20

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
10	0.04	0.45	0.86			A

83/11/ 9 15/10 -----BEGIN-----BEGIN-----83/11/ 9 15/10

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR MM AVXM SDXM NF AVFM SDFM
 931109 1518 53.55 44N 9.68 113W59.38 12.38 2.13 12 17 81 1 0.06 0.5 1.3 A A1A 0.22 10 16 0.00 0.05 0 0.0 0.0 9 2.1 0.3
 SE OF ORIG = 0.059 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --
 STN DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 916 4.0 44 161 55.711PC 2.16 2.26 -0.10 1.053 58.96 5.41 5.23 0.18 0.000 284 42 2.52
 84 11.9 71 133 56.661PC 3.11 2.99 0.12 1.053 59.34 5.79 6.38 -0.59 0.000 284 28 2.22
 815 17.0 276 122 57.161PC 3.61 3.64 -0.03 1.053 59.95 6.40 6.63 -0.22 0.000 284 23 2.02
 917 18.0 327 120 57.301PC 3.75 3.79 -0.04 1.053 60.99 7.44 7.39 0.05 0.737 284 28 2.22
 812 21.1 196 115 57.811PC 4.26 4.22 0.04 1.053 62.89 9.34 9.33 0.01 0.737 284 14 1.62
 911 27.3 349 109 58.79EPC 5.24 5.17 0.07 1.053 63.14 9.59 10.14 -0.55 0.000 284 21 2.02
 811 28.3 149 108 58.89EPC 5.34 5.33 0.01 1.053 284 45 2.62
 85 31.4 123 106 59.341PC 5.79 5.80 -0.01 1.053 284 18 1.92
 86 39.4 123 101 60.56EPC 7.01 7.06 -0.05 1.053 284 27 2.22
 89 41.8 140 101 60.941PC 7.39 7.45 -0.06 1.053

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE E NW SE N
 AVE. OF END POINTS 0.33 0.65 0.70 0.86 0.90 1.02 1.10

83/11/ 9 13/58 -----BEGIN-----BEGIN-----83/11/ 9 13/58

HORIZONTAL SE = 1.15 SE = 1.29 VERTICAL SE = 99.00 QUALITY = 0
AZ = -8. AZ = -98.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
931109 1358 10.48 44M16.98 114W 8.42 0.47 12 15 147 1 0.15 1.3 99.0 C CIC 2.29 10 26 0.00 0.11 0 0.0 0.0 0 0.0 0.0
SE OF DRIG = 10.000 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AIM AIM PSEC PRMK+TCOR-D-TTDB-TTICAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTON TTICAL S-RES S-WT AMX PR KMAG R PMP PMAG
MWS1 10.0 108 58 12.40 PC0 1.92 1.97 -0.05 1.067 13.86 3.38 3.44 -0.06 0.000
RCI 14.6 225 58 13.25 PD0 2.77 2.78 -0.01 1.067 0.00-10.48 4.86-15.34 0.000
MIR 14.9 12 58 13.40 PD0 2.92 2.84 0.08 1.067 0.00-10.48 4.97-15.45 0.000
MSUI 17.3 106 58 13.85 P 0 3.37 3.27 0.10 1.067 0.00-10.48 5.73-16.21 0.000
MSUI 17.6 114 58 13.75 P 0 3.27 3.32 -0.05 1.067 0.00-10.48 5.81-16.29 0.000
M-2 25.3 122 58 15.27 PD0 4.79 4.70 0.17 -0.08 1.067 0.00-10.48 8.22-18.99 0.000
CGI 25.6 83 58 15.25 P 4 4.77 4.74 0.03 0.000 0.00-10.48 8.30-18.78 0.000
DSPI 25.6 106 58 15.12 PC0 4.64 4.75 -0.11 1.067 18.29 7.81 8.32 -0.51 0.000
GCI 28.1 47 58 15.52 PC0 5.04 5.19 -0.15 1.067 0.00-10.48 9.08-19.56 0.000
M8AI 29.1 126 58 15.78 P+2 5.30 5.38 -0.08 0.267 0.00-10.48 9.42-19.90 0.000
M-1 32.4 137 58 16.79 P 0 6.31 5.97 0.30 0.04 1.067 0.00-10.48 10.45-21.46 0.000
LSGS 37.0 113 58 17.68 PD0 7.20 6.78 0.42 1.067 0.00-10.48 11.87-22.35 0.000
LCRI 41.3 131 58 17.87 P 0 7.39 7.55 -0.16 1.067 0.00-10.48 13.22-23.70 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z SE E SW NE M
AVE. OF END POINTS 0.00 0.02 0.06 0.06 0.08 0.09 0.13
NUMBER RMS MIN RMS AVE RMS QUALITY
8 0.15 -0.05 0.07 D

```

83/11/ 9 18/48 -----BEGIN-----83/11/ 9 18/43
      SE = 0.85      HORIZONTAL      SE = 1.74      VERTICAL
      AZ = -37.      SE = -127.      AZ = -127.      SE = 2.72      QUALITY = 8

DATE  ORIGIN  LAT  LONG  DEPTH  MAG MD D3 GAP M  RMS  ERM  ERZ Q SQD  ADJ IN NR  AVR  AAR NM AVXM SOXM MF AVFM SOFM
331109 1848 50-09 44N11-06 114W 0.68 9.22 2.48 10 14 134 1 0.12 1.7 2.7 B 818 0.05 10 11 0.00 0.10 0 0.0 0.0 9 2.5 0.3
SE OF ORIG = 0.102 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STM DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 4.6 105 151 52.071P 1.98 1.84 0.14 1.031 54.92 4.83 5.11 -0.28 0.722 34 2.3
84 13.0 91 119 52.831P 2.74 2.82 -0.08 1.031 75 3.0
817 13.7 324 117 53.181PC 3.09 2.92 0.17 1.031 37 2.4
81 23.0 351 102 54.55EPC 4.46 4.36 0.10 1.031 33 2.3
812 24.6 189 101 54.671PC 4.58 4.62 -0.04 1.031 44 2.6
811 32.7 150 97 56.06EPC 5.97 5.91 0.06 1.031 28 2.2
85 35.1 127 96 56.341PC 6.25 6.29 -0.04 1.031 68 3.0
86 43.2 127 94 57.561PD 7.47 7.59 -0.12 1.031 23 2.1
89 46.0 141 94 58.19EPC 8.10 8.07 0.03 1.031 40 2.6

      QUALITY EVALUATION
DIAGONALS IN ORDER OF STRENGTH  NW SE E Z M NE SW
AVE. OF END POINTS 0.06 0.08 0.10 0.12 0.13 0.14 0.17

      NUMBER  RMS  MIN RMS  AVE RMS  QUALITY
      S 0.12 -0.04 0.11 0

83/11/ 9 20/16 -----BEGIN-----83/11/ 9 20/16
      SE = 13.97      HORIZONTAL      SE = 46.98      VERTICAL
      AZ = 11.      SE = -79.      AZ = -79.      SE = 99.00      QUALITY = 0

DATE  ORIGIN  LAT  LONG  DEPTH  MAG MD D3 GAP M  RMS  ERM  ERZ Q SQD  ADJ IN NR  AVR  AAR NM AVXM SOXM MF AVFM SOFM
931109 2016 10-25 44N 9-54 112W16-41 10.00 2.15 2100 353 1 0.33 47.0 99.0 0 D1028.99 10 10-0.31 0.35 0 0.0 0.0 5 2.1 0.6
SE OF ORIG = 3.779 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STM DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
86 106.7 258 65 29.121PC 18.87 17.76 1.11M0.000 31.67 21.42 31.08 -9.66 0.000 287 2
85 112.3 261 65 28.921PC 18.67 18.59 0.08 1.000 287 2
89 115.0 254 65 28.461PC 18.21 18.97 -0.77 1.000 287 2
84 126.0 272 65 31.48EPC 21.23 20.60 0.63M0.000 30.20 19.95 33.20-13.26 0.000 287 32 2.62
816 134.5 271 65 32.001PO 21.75 21.84 -0.09C0.000 287 20 2.32
81 144.7 281 65 36.131PO 25.88 23.34 2.53M0.000 287 6 1.32
817 147.8 276 65 33.60EPC 23.35 23.81 -0.46M0.000 287 10 1.72
815 154.1 271 65 43.12EPC 32.87 24.73 8.14M0.000 287 37 2.92

```


03/11/ 9 21/ 6 -----BEGIN-----BEGIN-----03/11/ 9 21/ 6

HORIZONTAL SE = 0.50 SE = 0.79 VERTICAL SE = 1.12
AZ = -60. AZ = 30. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
031109 21 6 55-60 44N 8-65 113W58.72 11-56 2-64 10 18 82 1 0-06 0-8 1-1 A A14 0-97 10 13 0-00 0-05 0 0-0 0-0 9 2-6 0-3
SE OF ORIG = 0.059 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK-TCOR-O-TT08-TTICAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMK PR XMAG R FMP FMAG
016 5-1 22 154 57.761PD 2-16 2-21 -0-05 1-031 59-48 3-88 3-87 0-01 0-722 46 2-6
04 11-9 61 130 58-531PC 2-93 2-90 -0-03 1-031 60-00 4-40 5-07 -0-67 0-000 85 3-1
015 18-2 282 117 59-311PD 3-71 3-74 -0-03 1-031 57 2-8
012 19-5 200 115 59-541PC 3-94 3-93 0-01 1-031 55 2-8
017 20-1 328 114 59-676PD 4-07 4-02 0-05 1-031 42 2-5
011 26-3 149 107 60-691PC 5-09 4-97 0-12 1-031 31 2-3
05 29-6 121 105 61-101PD 5-50 5-48 0-02 1-031 70 3-0
06 37-7 122 100 62-321PC 6-72 6-77 -0-05 1-031 21 2-0
09 39-8 139 100 62-616PD 7-01 7-11 -0-10 1-031 52 2-8

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW N E SE
AVE. OF END POINTS 0-51 0-53 0-73 0-77 0-80 0-89 1-05

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0-06 0-45 0-79 A

-----END-----END-----END-----END-----

83/11/ 9 23/13 BEGIN-----BEGIN-----83/11/ 9 23/13

HORIZONTAL SE = 0.27 SE = 0.52 VERTICAL SE = 0.96
AZ = -40. AZ = -130. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOKM NF AVFM SDFM
831109 2313 56.68 4.4 1.94 113W52.44 11.93 2.27 11 17 96 1 0.05 0.5 1.0 8 A18 0.25 10 15 0.00 0.04 0 0.0 0.0 10 2.3 0.3
SE OF ORIG = 0.047 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D=TTOR-YTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR KMAG R FMP FMAG
011 11.3 153 133 59.49IPD 2.81 2.87 -0.05 1.058 61.71 5.03 5.02 0.02 0.740 291 25 2.02
012 16.1 248 122 60.16IPD 3.48 3.49 0.00 1.058 62.50 5.82 6.10 -0.28 0.000 291 34 2.32
05 17.3 99 120 60.35IPC 3.67 3.65 0.02 1.058 62.63 5.95 6.65 -0.70 0.000 291 44 2.62
34 18.4 6 118 60.36IPD 3.68 3.80 -0.12 1.058 63.38 6.70 6.65 0.05 0.740 291 52 2.72
36 18.4 339 118 60.52IPD 3.84 3.80 0.04 1.058 64.94 8.26 8.38 -0.12 0.000 291 25 2.12
86 24.8 107 110 61.46IPD 4.78 4.76 0.02 1.058 64.94 8.26 8.38 -0.12 0.000 291 22 2.02
87 25.0 134 109 61.49IPC 4.81 4.79 0.03 1.058 64.94 8.26 8.38 -0.12 0.000 291 33 2.32
015 30.8 302 105 62.34IPD 5.66 5.69 -0.02 1.058 64.94 8.26 8.38 -0.12 0.000 291 42 2.62
017 35.1 327 102 63.07EP 6.39 6.36 0.04 1.058 64.94 8.26 8.38 -0.12 0.000 291 27 2.22
31 43.6 341 99 65.30EPD4 8.62 7.73 0.90 0.000 64.94 8.26 8.38 -0.12 0.000 291 18 1.92

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE SW 2 E N NE
AVE. OF END POINTS 0.08 0.16 0.18 0.20 0.21 0.21 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.05 0.03 0.18 0

-----END-----END-----END-----END-----

-----BEGIN-----BEGIN-----83/11/ 9 23/ 0

SE =	0.67	SE =	1.53
AL =	-91.	AL =	-1.
HORIZONTAL		VERTICAL	
		SE =	2.11
		QUALITY =	A

DATE	ORIGIN	LAT	DEPTH	MAG	NO	03	GAP	N	RMS	ERM	Q	SQD	ADJ	IN	NR	AVR	AAR	MM	AVIM	SDIM	NF	AVFM	SDFM	
23.0	43.19	43N53.65	113M5.15	3.03	29	15	186	1	0.13	1.5	2.1	C	810	0.08	10	51	0.00	0.10	0	0.0	0.0	10	3.0	0.3
SE OF ORIG = 0.149																								
4 ITERATIONS TOTAL																								

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)																								
STN	DIST	AZM	IN	PSEC	PRMK	TCOR	O-TOTB	TTCAL	DELAY=EDLY=	P-RS	P-WT	THIC	SSEC	SRMK	TTOB	TTCAL	S-RS	S-WT	AMX	PR	IMAG	R	FMP	FMAG
7.0	320	150	45.68	IPC			2.49	2.56		-0.06	1.010											290	56	2.72
8.4	105	145	45.93	P			3.74	2.68		0.06	1.010											290	85	3.12
8.5	16.7	30	128	46.62	IPD		3.43	3.38		0.05	1.010											290	137	3.52
16.1	60	125	46.71	IPD			3.52	3.56		0.04	1.010											290	42	2.52
16.4	1	124	46.65	PDD			3.46	3.61		-0.15	1.010											290		2
21.2	311	117	47.57	PCD			4.38	4.29		0.09	1.010											290		2
21.4	335	116	47.93	PDD			4.74	4.32	0.30	0.13	1.010											290		2
25.3	68	112	48.03	PDD			4.84	4.89		-0.05	1.010											290		2
26.1	292	111	48.28	PCD			5.09	5.02		0.07	1.010											290		2
26.5	291	111	48.30	IPC			5.11	5.08		0.04	1.010											290		2
27.2	344	110	48.31	P-D			5.12	5.18		-0.06	1.010											290	83	3.22
29.1	6	108	48.79	PCD			5.60	5.48		0.12	1.010											290		2
31.4	342	107	49.20	PCD			6.01	5.82	0.17	0.02	1.010											290		2
34.5	347	105	49.51	P			6.26	6.31		-0.05	1.010											290		2
36.4	333	104	49.75	IP			6.56	6.81		-0.04	1.010											290	103	3.42
36.6	350	104	49.78	PCD			6.59	6.65		-0.05	1.010											290	61	2.92
38.5	AMP1	38.5	328	103	50.15	P	6.96	6.94		0.03	1.010											290		2
39.0	337	103	50.10	P			6.91	7.01		-0.10	1.010											290		2
41.0	339	102	50.44	P			7.25	7.33		-0.07	1.010											290		2
45.5	332	100	51.46	PDD			8.27	8.06		0.22	1.010											290		2
46.8	353	100	51.49	PCD			8.30	8.26		0.04	1.010											290		2
47.8	311	100	51.64	P			8.25	8.44		-0.18	1.010											290	84	3.22
49.3	333	99	51.53	P			8.34	8.67		-0.33	1.010											290		2
52.9	308	99	52.26	P			9.07	9.24		-0.17	1.010											290		2
53.3	327	98	52.57	EP			9.38	9.30		0.08														

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH									
AVE. OF END POINTS									
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY	DRMS	QUALITY	DRMS
25	0.13	0.05	0.10	0.09	0.11	0.11	0.12	0.13	0.14

```

03/11/10 0734 BEGIN-----BEGIN-----83/11/10 0734
                                SE = 0.81      VERTICAL
                                AZ = -119.      SE = 1.21
                                QUALITY = A
                                SE = 0.59      HORIZONTAL
                                AZ = -29.
                                MAG NO D3 GAP M RMS   ERM   ERZ C SQD ADJ IN NR   AVR   AAR NM AVXM SDXM NF AVFM 50FM
                                034 19.92 44N13.28 114W 4.92 5.32 2.84 28 9 87 1 0.16 0.8 1.2 8 81B 0.12 10 45 0.00 0.11 0 0.0 0.0 9 2.8 0.3
                                SE OF ORIG = 0.057
                                5 ITERATIONS TOTAL

```

(- STATION DATA -)	(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----)	VARI	(---- S-WAVE TRAVEL-TIME DATA ----)	(--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR=0-YTDB-TICAL-DELAY=EDLY=	P-RES P-MT THIC SSEC SRMK TTDB TICAL S-RES S-MT AMK PR XMAX R FMP FMAG			
MWJ 6.2 53 129 21.26 PCO	1.34 1.50	-0.16 1.022	0.00-19.92 2.63-22.55 0.000	293 2
AMPI 7.1 121 125 21.45 P	1.53 1.63	-0.10 1.022	0.00-19.92 2.86-22.78 0.000	293 2
BHT 8.8 344 120 21.41EP	1.49 1.88	-0.39 1.022	23.58 3.66 3.29 0.31 0.715	293 55 2.72
SUS 8.8 29 119 21.82 PCO	1.90 1.89	0.01 1.022	0.00-19.92 3.30-23.22 0.000	293 2
H16 10.8 111 114 22.11PC	2.19 2.22	0.03 1.022	24.23 4.31 3.88 0.43 0.715	293 67 2.92
SUI 11.4 92 113 21.90 P	1.98 2.32	-0.34 1.022	0.00-19.92 4.05-23.97 0.000	293 2
N5U 12.2 81 112 22.39 PCO	2.47 2.44	0.03 1.022	0.00-19.92 4.27-24.19 0.000	293 2
MCI 15.3 257 107 22.87 PCO	2.95 2.97	-0.02 1.022	0.00-19.92 5.20-25.12 0.000	293 2
M-2 18.0 111 105 23.60 P+0	3.68 3.43	0.08 1.022	0.00-19.92 6.01-26.22 0.000	293 2
B4 18.8 98 104 23.43IP	3.51 3.57	-0.06 1.022	0.00-19.92 6.60-26.52 0.000	293 110 3.32
SPF 20.0 91 103 23.53 PCO	3.61 3.77	-0.16 1.022	0.00-19.92 7.06-26.98 0.000	293 2
B1 20.3 6 103 23.69EPD	3.77 3.82	-0.05 1.022	0.00-19.92 7.52-27.44 0.000	293 47 2.62
M8A 21.5 118 102 23.98 P00	4.06 4.03	0.03 1.022	0.00-19.92 8.03-28.57 0.000	293 2
MIR 21.5 356 102 24.30 P 0	4.38 4.04	0.35 1.022	0.00-19.92 9.80-29.72 0.000	293 2
CGI 23.0 64 101 24.29 PCO	4.37 4.30	0.08 1.022	0.00-19.92 9.84-29.75 0.000	293 2
M-1 24.3 134 101 24.83 PCO	4.91 4.52	0.09 1.022	0.00-19.92 7.91-28.35 0.000	293 2
B8P 24.7 155 101 24.49 P-0	4.57 4.59	-0.02 1.022	25.89 5.97 8.03 -2.06 0.000	293 2
MCI 26.6 175 100 24.96 P00	5.04 4.94	0.10 1.022	0.00-19.92 9.65-28.57 0.000	293 2
R12 27.0 176 100 24.94EPD	5.02 5.00	0.02 1.022	0.00-19.92 9.80-29.72 0.000	293 70 3.02
LGS 30.4 104 99 25.58 P-0	5.66 5.60	0.06 1.022	0.00-19.92 9.84-29.75 0.000	293 2
GCI 30.5 31 98 25.47 P00	5.55 5.62	-0.07 1.022	0.00-19.92 9.84-29.75 0.000	293 2
H11 38.0 145 65 26.70EP	6.78 6.87	-0.09 1.022		293 43 2.62
S95 41.2 125 65 27.37EPC	7.45 7.40	0.05 1.022		293 96 3.32
B6 49.3 125 65 28.67EPC	8.75 8.71	0.04 1.022		293 30 2.32
MCI 51.7 138 65 29.03EP	9.13 9.10	0.03 1.022		293 69 3.02
MCI 56.4 118 65 29.75 PCO	9.83 9.86	-0.03 1.022	36.99 17.07 17.26 -0.19 0.000	293 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH						
	NW	Z	SE	E	SW	NE
Ave. of EMD points	0.03	0.04	0.00	0.00	0.09	0.12

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
0	0.16	0.03	0.08			3

END
END
END

83/11/ 9 23/16 -----BEGIN-----BEGIN-----83/11/ 9 23/16

SE = 0.63 SE = 1.03 SE = 1.16
AZ = 33. AZ = -57. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SQHM NF AVFM SDFM
83109 2316 9.04 44N15.98 114W 6.15 6.26 2.66 12 15 128 1 0.09 1.0 1.2 8 A18 0.27 10 12 0.00 0.07 0 0.0 0.0 10 2.7 0.5
SE OF ORIG = 0.066 3 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
STN DIST AIM AIM PSEC PRMK-TCOR-O-TT08-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R PMP PMAG
917 3.5 347 150 10.371P0 1.33 1.32 0.01 1.053 13.56 4.52 4.50 0.02 0.737 292 59 2.72
915 12.6 219 115 11.641PC 2.60 2.57 0.03 1.053 292 14 1.52
916 14.7 127 111 11.981PC 2.94 2.92 0.01 1.053 292 56 2.72
81 15.6 14 110 12.081PC 3.04 3.07 -0.04 1.053 292 51 2.62
34 21.7 111 105 13.081PC 4.04 4.11 -0.07 1.053 292 95 3.22
812 32.1 174 65 14.751PC 5.71 5.86 -0.15 1.053 292 63 2.92
811 43.0 147 65 16.701PC 7.66 7.63 0.03 1.053 292 42 2.62
85 45.5 129 65 17.001P0 7.96 8.03 -0.08 1.053 292 90 3.22
86 53.6 129 65 18.601PC 9.56 9.34 0.21 1.053 292 30 2.32
99 56.5 140 65 18.901PC 9.92 9.82 0.10 1.053 292 52 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW SW NE E SE N
AVE. OF END POINTS 0.32 0.61 0.67 0.83 0.84 0.93 0.93

NUMBER RMS MIN ORMS AVE ORMS QUALITY
12 0.09 0.39 0.77 A

33/11/10	1/57	BEGIN-----BEGIN-----83/11/10	1/57
----------	------	------------------------------	------

SE =	0.42	SE =	0.66
AZ =	-22.	AZ =	-112.
HORIZONTAL		VERTICAL	
		SE =	1.54
		QUALITY =	A

```

DATE          ORIGIN      LAT      LONG      DEPTH    MAG NO D3 GAP # RNS   ERM   ERZ Q SQD ADJ IN NR   AVR   AAR NM AVKM SOXM NF AVFM SCFM
08JUN10     157 57.31 44N 5.61 113053.65 9.47 1.88 17 11 65 1 0.10 0.7 1.5 A AIA 0.10 10 22 0.00 0.08 0 0.0 0.0 14 1.9 0.5
SE DIFF = 0.059
4 ITERATIONS TOTAL

```

STATION DATA		P-WAVE TRAVEL-TIME DATA				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA															
SYN	DIS	AZM	AIN	PSC	PRMK	TCOR	Q-TTDB	TTTCL	-DELAY	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTTCL	S-RES	S-WT	ANX	PR	XMAG	R	FMP	FMAG
5.6	45	146	59	26	1PC		1.95	1.95			-0.01	1.037		61.39	4.08	4.15	-0.07	0.000			295		295	20	1.82
9.4	210	130	59	66	1PC		2.35	2.37			-0.02	1.037		61.11	3.80	4.61	-0.82	0.000			295		295	25	2.02
11.5	335	124	59	91	1PC		2.60	2.64			-0.04	1.037		61.92	4.61	4.74	-0.16	0.726			295		295	4	0.42
12.0	182	122	59	97	1PC		2.66	2.71			-0.05	1.037		62.45	5.14	5.42	-0.28	0.000			295		295	13	1.52
14.8	20	116	60	30	1PC		3.07	3.09			-0.03	1.037									295		295	13	1.52
15.65	16.0	65	113	60	73	1PC	3.42	3.48			0.13	1.037									295		295	13	1.52
16.5	350	112	60	87	1PC		3.56	3.36			0.20	1.037									295		295	13	1.52
18.2	158	109	61	03	1PC		3.72	3.61			0.11	1.037		63.81	6.50	6.32	0.18	0.726			295		295	23	2.02
18.5	226	109	60	93	1PC		3.62	3.66			-0.04	1.037									295		295	32	2.32
21.0	117	105	61	34	1PC		4.03	4.04			-0.01	1.037									295		295	56	2.82
26.3	291	101	62	14	1PC		4.83	4.49			-0.06	1.037		65.14	7.83	8.56	-0.73	0.000			295		295	35	2.42
28.6	322	99	62	53	1PC		5.22	5.26			-0.04	1.037									295		295	24	2.12
29.0	119	99	62	50	1PC		5.19	5.32			-0.14	1.037		64.82	7.51	9.32	-1.81	0.000			295		295	16	1.72
31.1	141	98	62	83	1PC		5.52	5.66			-0.14	1.037									295		295	35	2.42
36.7	340	96	63	98	1PC		6.67	6.55			0.12	1.037									295		295	23	2.02

QUALITY EVALUATION

	N	SW	SE	Z	E	NE	NW
DIAGONALS IN ORDER OF STRENGTH							
Ave. of end points	0.11	0.13	0.13	0.14	0.15	0.17	0.19

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
9	0.10	0.07	0.15			0

END
END
END
END

03/11/10 0746 BEGIN-----BEGIN-----03/11/10 0746

HORIZONTAL SE = 0.54 SE = 0.89 VERTICAL SE = 0.64 QUALITY = A
AZ = -49. AZ = 41.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVYM SOXM NF AVFM SDFM
031110 046 58.21 44M12.29 114M 0.08 6.87 2.58 11 14 105 1 0.09 0.9 0.6 8 818 0.07 10 16 0.00 0.07 0 0.0 0.0 10 2.6 0.3
SE OF ORIG = 0.040 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYM DIST AZM AIM PSEC PRMK+TCOR=0-TTOB-TTCAL-DELAY=EDLY= P-RES P-WT TMIC SSEC SRMK TT0B TTCL S-RES S-WT AMX PR XMAC R FMP FMAG
016 4.2 118 148 59.81EPC 1.60 1.48 0.12 1.028 60.61 2.40 2.58 -0.18 0.720 294 41 2.42
04 12.2 94 118 0.84IPC 2.63 2.55 0.08 1.028 1.74 3.53 4.46 -0.93 0.000 294 83 3.12
017 13.6 319 115 0.94IPC 2.77 2.78 -0.01 1.028 3.68 5.47 4.86 0.61 0.000 294 37 2.42
015 16.2 259 111 1.48IPC 3.25 3.21 0.03 1.028 4.26 6.05 5.62 0.42 0.000 294 64 2.82
01 22.4 349 65 2.40EPC 4.19 4.23 -0.04 1.028 6.17 7.96 8.30 -0.34 0.000 294 31 2.22
012 25.6 191 65 2.87IPC 4.66 4.74 -0.09 1.028 294 51 2.72
011 33.0 152 65 4.27EPC 6.06 5.95 0.10 1.028 294 32 2.32
05 34.9 129 65 4.45IPC 6.24 6.27 -0.03 1.028 294 73 3.02
06 43.0 128 65 5.69IPC 7.48 7.58 -0.10 1.028 294 24 2.12
09 46.1 143 65 6.35EPC 8.14 8.09 0.05 1.028 294 55 2.82

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW E Z SW NE N
AVE. OF END POINTS 0.11 0.12 0.15 0.16 0.19 0.19 0.21

NUMBER RMS MIN ORMS AVE ORMS QUALITY
5 0.03 -0.02 0.17 0

-----END-----END-----END-----END-----

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFM
831110 349 38.01 44W15.18 11W 4.91 7.11 3.02 32 6 89 1 0.13 0.6 1.1 A AIA 0.14 10 64 0.00 0.10 0 0.0 0.0 13 3.0 0.3
SE OF ORIG = 0.044 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TT08-TTCAL-DELT-EDLY+ P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XHAG R FMP FMAG
NWSI 4.9 88 140 39.59 PCO 1.58 1.58 0.00 1.019 0.00-38.01 2.77-40.78 0.000 297 2
017 5.5 333 137 39.721PD 1.71 1.65 0.07 1.019 40.96 2.95 2.88 0.07 0.713 297 57 2.72
05U3 6.0 45 136 39.72 P 0 1.71 1.70 0.01 1.019 0.00-38.01 2.98-40.99 0.000 297 2
ANPI 9.4 140 117 40.12 P 0 2.11 2.14 -0.03 1.019 0.00-38.01 3.75-41.76 0.000 297 2
WSUI 12.1 109 107 40.53 PCO 2.52 2.55 -0.03 1.019 0.00-38.01 4.47-42.47 0.000 297 2
NSUI 12.1 97 106 40.59 PCO 2.58 2.56 0.02 1.019 0.00-38.01 4.47-42.48 0.000 297 2
016 12.5 126 105 40.581PD 2.57 2.62 -0.05 1.019 43.45 5.44 4.58 0.86 0.000 297 75 3.02
015 12.6 229 104 40.701PD 2.59 2.64 0.05 1.019 42.54 4.53 4.62 -0.08 0.713 297 87 3.12
RCI 16.5 245 93 41.17 PCO 3.16 3.26 -0.10 1.019 43.97 5.96 5.71 0.25 0.000 297 2
01 16.8 8 92 41.321PC 3.31 3.31 0.00 1.019 44.20 6.19 5.79 0.40 0.000 297 55 2.72
MIR 18.0 355 92 41.70 PD0 3.69 3.51 0.18 1.019 0.00-38.01 6.14-44.15 0.000 297 2
M-2 19.6 121 91 42.01 PD0 4.00 3.76 0.17 0.07 1.019 45.01 7.00 6.58 0.12 0.000 297 2
04 19.7 109 91 41.631PC 3.62 3.77 -0.15 1.019 44.51 6.50 6.60 -0.10 0.000 297 117 3.42
DSPI 20.3 101 91 41.73 PCO 3.72 3.89 -0.17 1.019 43.47 5.46 6.80 -1.34 0.000 297 2
CGI 21.7 72 91 42.08 PCO 4.07 4.11 -0.04 1.019 0.00-38.01 7.19-45.20 0.000 297 2
MBAI 23.4 126 91 42.40 PCO 4.39 4.38 0.01 1.019 0.00-38.01 7.67-45.68 0.000 297 2
M-1 26.8 139 90 43.35 PD0 5.34 4.94 0.10 1.019 0.00-38.01 8.65-47.18 0.000 297 2
GCI 27.5 35 90 42.77 PD0 4.76 5.05 -0.29 1.019 0.00-38.01 8.84-46.85 0.000 297 2
BRPI 27.9 158 90 43.09 PCO 5.08 5.12 -0.04 1.019 44.49 6.48 8.96 -2.48 0.000 297 2
0RCI 30.1 176 90 43.31 PCO 5.30 5.48 -0.18 1.019 0.00-38.01 9.59-47.60 0.000 297 2
012 30.5 177 90 43.64EPC 5.63 5.54 0.09 1.019 47.12 9.11 9.69 -0.58 0.000 297 77 3.12
LSGS 31.4 110 90 43.79 P-0 5.78 5.68 0.10 1.019 47.61 9.60 9.94 -0.34 0.000 297 2
LCRI 35.6 131 90 44.14 PD0 6.13 6.36 -0.23 1.019 0.00-38.01 11.13-49.14 0.000 297 2
011 40.9 148 90 45.23EPC 7.22 7.22 0.00 1.019 0.00 1.019 297 47 2.72
05 43.3 129 90 45.64IP 7.63 7.62 0.01 1.019 297 98 3.32
06 51.4 128 90 47.001P 8.99 8.93 0.06 1.019 297 32 2.42
09 54.3 141 90 47.59EPC 9.58 9.40 0.18 1.019 297 82 3.22
MDCI 58.1 121 90 47.88 PCO 9.47 10.02 -0.15 1.019 297 58 3.12
MPI 99.2 127 90 55.10 P 0 17.09 16.69 0.40 1.019 297 73 3.32
JGI 113.7 99 65 57.12 P 0 19.11 18.99 0.12 1.019 297 79 3.42
CIG 131.8 126 65 0.29 P 0 22.28 21.65 0.63M0.000 297 2
08I 164.3 100 65 5.32 P 0 27.31 26.43 0.88M0.000 297 2
IMI 203.5 121 50 10.56 P 0 32.55 32.05 0.50C0.000 297 2
IMM 254.7 99 50 17.22 P 0 39.21 38.46 0.75M0.000 297 2

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE E Z NE SW N
AVE. OF END POINTS 0.08 0.08 0.11 0.12 0.14 0.17 0.17

NUMBER 14
RMS 0.13
MIN DRMS 0.04
AVE DRMS 0.13
QUALITY 0

-----END-----END-----END-----

83/11/10 4/47 BEGIN BEGIN BEGIN 83/11/10 4/47

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOWM NF AVFM SOWM
831110 447 33.56 44N13.10 114W 2.82 8.46 2.67 12 13 100 1 0.06 0.5 1.3 B A1B 0.07 10 16 0.00 0.04 0 0.0 0.0 9 2.7 0.4
SE OF ORIG = 0.047 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)

SYN	DIST	AZM	AIN	PSEC	PRMK	TCOR	O-TTDB	TTICAL	DELAY	EOLY	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTICAL	S-RES	S-WT	AMX	PR	RMAG	R	FMP	FMAU	
316	8.1	115	131	35.64	IPC	2.08	2.11	-0.02	1.053	37.96	4.40	3.69	0.72	0.000	298	46	2.52	298	46	2.52	298	46	2.52	298	46	2.52
417	10.2	329	123	35.94	IPC	2.38	2.38	0.01	1.053	39.36	5.80	4.16	1.64	0.000	298	46	2.62	298	46	2.62	298	46	2.62	298	46	2.62
815	13.1	250	114	36.36	IPC	2.80	2.79	0.02	1.053	38.46	4.90	4.87	0.03	0.737	298	93	3.22	298	93	3.22	298	93	3.22	298	93	3.22
84	16.0	99	108	36.68	IPC	3.12	3.23	-0.11	1.053	39.28	5.72	5.65	0.07	0.737	298	36	2.42	298	36	2.42	298	36	2.42	298	36	2.42
91	20.5	358	101	37.50	IPC	3.94	3.93	0.01	1.053	45.69	12.13	11.30	0.83	0.000	298	60	2.82	298	60	2.82	298	60	2.82	298	60	2.82
812	26.6	182	97	38.31	IPC	4.81	4.91	-0.10	1.053	44.94	11.38	12.04	-0.66	0.000	298	78	3.12	298	78	3.12	298	78	3.12	298	78	3.12
811	36.1	148	94	40.03	EPD	6.49	6.46	0.03	1.053						298	25	2.12	298	25	2.12	298	25	2.12	298	25	2.12
35	38.8	127	93	40.44	IPD	6.88	6.88	0.00	1.053						298	67	3.02	298	67	3.02	298	67	3.02	298	67	3.02
86	46.8	127	93	41.72	EP	8.16	8.19	-0.03	1.053																	
89	49.6	140	92	42.32	IPC	8.76	8.64	0.12	1.053																	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW N SE E NE SW Z
AVE. OF END POINTS 0.09 0.12 0.12 0.16 0.18 0.22 0.26

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.06 0.03 0.16 0

END END END END END END

33/11/10 7/54 -----BEGIN----- 83/11/10 7/54

HORIZONTAL SE = 1.00 SE = 1.47 QUALITY = A
AZ = -54. AZ = 36.

DATE ORIGIN LAT LONG DEPTH MAG AD D3 GAP M RMS ERM ERZ Q SDO ADJ IN NR AVR AAR NM AVXM SDRM NF AVFM SDRM
831110 754 56.41 44N14.13 114W 1.30 8.59 2.11 17 8 127 1 0.11 1.0 1.5 8 818 0.25 10 22 0.00 0.09 0 0.0 0.0 15 2.1 0.3
SE OF ORIG = 0.065 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIN PSEC PRMK+TCOR-D=TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TDOB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
MWI 2.1 2 164 58.051PD 1.64 1.54 0.10 1.037 301 12 1.43
3SU3 6.2 355 139 57.831PD4 1.42 1.86 -0.44 0.000 301 25 2.03
NSU1 7.2 87 134 58.505PD 2.09 1.98 0.12 1.037 301 24 2.03
816 7.6 135 132 58.521PD 2.11 2.02 0.09 1.037 301 36 2.33
817 10.0 313 123 58.611PD 2.20 2.33 -0.12 1.037 301 37 2.43
84 14.5 107 110 59.331PC 2.92 2.98 -0.06 1.037 301 25 2.03
DSAI 15.3 97 108 59.371PC 2.96 3.10 -0.14 1.037 301 17 1.73
WBAI 18.4 130 103 59.951PC 3.54 3.60 -0.05 1.037 301 28 2.23
MIR 20.9 342 100 60.591PC 4.18 3.99 0.20 1.037 301 22 2.03
BRPI 24.6 167 97 61.041PC 4.63 4.60 -0.04 1.037 301 17 1.73
LSOS 26.2 110 96 61.211PC 4.80 4.85 -0.05 1.037 301 42 2.53
812 28.7 186 95 61.571PC 5.16 5.25 -0.09 1.037 301 25 2.13
811 36.8 152 93 63.171PC 6.76 6.56 0.20 1.037 301 47 2.73
85 38.4 131 93 63.141PD 6.73 6.82 -0.09 1.037 301 23 2.13
86 46.4 130 92 64.521PD 8.11 8.13 -0.01 1.037 301 41 2.63
89 49.8 144 92 65.101PD 8.69 8.68 0.02 1.037

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW E N SE
AVE. OF ENO POINTS 0.37 0.41 0.56 0.77 0.80 0.84 1.08

NUMBER RMS MIN DRMS AVE DRMS QUALITY
17 0.11 0.40 0.72 A

xxxxx PTU P 0 831110 85324.45 .00 4 -----END-----
xxxxx deleted- PTU not on station list -----END-----

83/11/10-----BEGIN-----BEGIN-----83/11/10 7/35

HORIZONTAL SE = 0.73 SE = 1.00 VERTICAL SE = 1.70
AZ = -8. AZ = -98. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVPM SOPM
831110 735 35.66 44N18.02 114W 2.66 9.46 2.48 18 5 81 1 0.12 1.0 1.7 8 81A 1.01 10 18 0.00 0.10 0 0.0 0.0 17 2.5 0.4
SE OF ORIG = 0.083 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
SYN DIST AZM AIN PSEC PRMK+TCOR-O-TT08-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR KMAG R FMP FMAU
8SU3 1.6 130 169 37.511PD 1.85 1.71 0.15 1.000 0.04 1.000 300 35 2.33
NW51 5.4 159 147 37.551PD 1.89 1.94 -0.04 1.000 -0.17 1.000 300 13 1.43
817 5.5 266 147 37.431PD 1.77 1.94 -0.17 1.000 -0.10 1.000 300 51 2.53
81 11.4 356 124 38.181PD 2.52 2.63 -0.10 1.000 -0.23 1.000 300 42 2.53
MIR 13.5 348 118 38.801PC 3.14 2.91 0.23 1.000 0.10 1.000 300 38 2.43
816 14.5 150 116 38.811P 3.15 3.05 0.10 1.000 -0.11 1.000 300 48 2.63
815 18.5 223 109 39.201PC 3.54 3.65 -0.03 1.000 -0.03 1.000 300 59 2.83
QSP1 19.2 118 108 39.401PC 3.74 3.77 -0.03 1.000 0.03 1.000 300 22 1.93
44 19.4 126 107 39.431PD 3.77 3.80 -0.03 1.000 -0.03 1.000 300 85 3.13
GCI 21.5 37 105 39.731PC 4.07 4.12 -0.05 1.000 -0.05 1.000 300 54 2.73
WBA1 24.8 140 102 40.261PC 4.60 4.65 -0.02 1.000 -0.02 1.000 300 3
LS45 31.0 121 98 41.281PC 5.62 5.64 -0.07 1.000 -0.07 1.000 300 22 2.03
8RE1 32.0 167 98 41.401PD 5.74 5.81 -0.07 1.000 -0.07 1.000 300 32 2.33
812 39.7 182 96 42.171PD 6.51 6.40 0.11 1.000 0.29 1.000 300 57 2.83
811 44.0 155 95 43.691PC 8.03 7.74 0.29 1.000 0.06 1.000 300 30 2.33
85 44.7 137 95 43.431PC 7.77 7.84 -0.06 1.000 -0.10 1.000 300 78 3.13
86 52.6 135 94 44.701PD 9.04 9.14 -0.10 1.000 -0.06 1.000 300 24 2.13
89 56.8 146 93 45.411PC 9.75 9.81 -0.06 1.000 -0.06 1.000 300 62 3.03

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE NW SW E N SE
AVE. OF END POINTS 0.37 0.49 0.56 0.56 0.60 0.63 0.85

NUMBER RMS MIN DRMS AVE DRMS QUALITY
18 0.12 0.35 0.63 A

-----END-----END-----END-----

83/11/10 11/43 BEGIN 83/11/10 11/43 BEGIN

HORIZONTAL SE = 1.51 SE = 4.58 VERTICAL SE = 8.93 QUALITY = C
AZ = 15. AZ = -75.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831110 1143 0.68 44M17.08 11421.78 0.70 2.33 14 25 271 1 0.18 4.6 9.9 0 C10 0.38 10 18 0.00 0.14 0 0.0 0.0 12 2.3 0.3
SE OF ORIG = 0.359 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-0-TTDB-TTICAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
815 17.6 132 58 4.225IPC 3.57 3.28 0.29 1.045 6.17 5.49 5.75 -0.26 0.731 303 43 2.53
817 20.0 86 58 4.541PC 3.86 3.73 0.13 1.045 303 34 2.33
MIR 25.3 55 58 5.53EP 4.85 4.68 0.17 1.045 303 25 2.03
81 27.9 62 58 5.851PD 5.17 5.14 0.04 1.045 303 24 2.03
816 34.4 108 58 7.02EP 6.34 6.29 0.05 1.045 11.91 11.23 11.01 0.22 0.731 303 28 2.13
312 41.7 145 58 8.201PC 7.52 7.61 -0.09 1.045 13.30 12.62 13.32 -0.69 0.000 303 43 2.53
34 42.2 103 58 8.06EP 7.38 7.70 -0.32 1.045 14.61 13.93 13.48 0.45 0.000 303 51 2.73
GCI 42.7 64 58 8.12EPC 7.44 7.78 -0.34 1.045 18.12 17.44 18.49 -1.05 0.000 303 34 2.33
811 58.5 131 50 11.22EP 10.54 10.57 -0.03 1.045 19.61 18.93 20.09 -1.16 0.000 303 26 2.23
85 64.1 119 50 12.17EP 11.49 11.48 0.01 1.045 303 53 2.83
86 72.1 119 50 13.58EPD 12.90 12.78 0.12 1.045 303 19 1.93
89 72.9 129 50 13.58EP 12.90 12.91 -0.01 1.045 303 36 2.53

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SW E SE Z NE NW
AVE. OF END POINTS -0.01 0.00 0.00 0.02 0.03 0.04 0.06

NUMBER RMS MIN RMS AVE RMS QUALITY
8 0.18 -0.03 0.02 0

END END END END

83/11/10 8/52 -----BEGIN-----BEGIN-----83/11/10 8/52

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SDD ADJ IN MR AVR AAR NM AVXM SDFM NF AVFM SDFM
831110 052 38.56 44N20.48 11W 1.38 8.84 3.13 31 9 87 1 0.14 0.7 1.5 A AIA 0.57 10 65 0.00 0.10 0 0.0 0.0 13 3.1 0.3
SE OF DRIG = 0.067 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)

STN	DIST	AZM	AIM	PSEC	PRMK+TCOR=0	TTDB	TTCL	S-RES	S-WT	AMX	PR	AMAG	R	PMP	FMAG
ASU3	5.6	185	144	40.73	P 0	2.17	1.88	0.30	1.020						3
B1	7.3	340	136	40.59	PC	2.03	2.05	-0.01	1.020						3
B17	8.7	236	130	40.80	PC	2.24	2.21	0.03	1.020	43.20	4.64	3.87	0.77	0.000	302 60 2.83
MSU1	9.6	179	127	41.01	P00	2.45	2.32	0.13	1.020	0.00-38.56	4.07	-42.62	0.000		302 72 2.93
MIR	10.3	322	124	41.00	P00	2.44	2.42	0.02	1.020	0.00-38.56	4.23	-42.79	0.000		302 3
MSU1	13.5	147	116	41.53	P00	2.97	2.86	0.12	1.020	0.00-38.56	5.00	-43.55	0.000		302 3
MSU1	15.3	154	111	41.73	P00	3.17	3.13	0.04	1.020	0.00-38.56	5.48	-44.04	0.000		302 3
CGI	16.3	102	109	41.97	P00	3.41	3.29	0.12	1.020	0.00-38.56	5.76	-44.32	0.000		302 3
ANPI	16.9	41	108	41.66	PC0	3.10	3.38	-0.28	1.020	43.96	5.40	5.91	-0.51	0.000	302 3
ANPI	17.1	176	108	41.97	P 0	3.41	3.41	0.00	1.020	0.00-38.56	5.97	-46.52	0.000		302 3
B16	18.0	162	106	42.11	PD	3.55	3.54	0.01	1.020	46.01	7.45	6.20	1.25	0.000	302 78 3.03
JSPI	20.4	132	103	42.43	P00	3.97	3.94	-0.07	1.020	0.00-38.56	6.89	-45.45	0.000		302 3
94	21.2	139	102	42.55	PD	3.99	4.07	-0.07	1.020	45.58	7.02	7.12	-0.09	0.714	302 113 3.43
B15	23.0	218	100	42.84	PC	4.28	4.35	-0.06	1.020	46.04	7.48	7.61	-0.13	0.714	302 83 3.13
M-2	23.2	149	100	43.02	P00	4.46	4.38	0.17	1.020	46.02	7.46	7.66	-0.50	0.000	302 3
RCI	25.9	229	98	43.38	P 0	4.82	4.80	0.03	1.020	0.00-38.56	8.40	-46.95	0.000		302 3
MBAI	27.5	149	98	43.62	P00	5.06	5.07	0.00	1.020	45.71	7.15	8.87	-1.71	0.000	302 3
LSGS	32.3	130	96	44.39	P00	5.83	5.82	0.01	1.020	48.23	9.67	10.19	-0.52	0.000	302 3
M-1	32.8	157	96	44.17	P00	5.61	5.91	-0.59	0.000	0.00-38.56	10.34	-49.42	0.000		302 3
SRPI	36.2	171	95	45.12	PC0	6.56	6.47	0.09	1.020	49.82	11.26	11.32	-0.06	0.000	302 3
LCRI	39.9	147	94	45.44	PC0	6.88	7.07	-0.19	1.020	0.00-38.56	12.38	-50.94	0.000		302 3
BRCI	39.9	184	94	45.50	PC0	6.94	7.08	-0.14	1.020	50.30	11.74	12.39	-0.65	0.000	302 3
B12	40.4	184	94	45.57	PC	7.01	7.15	-0.14	1.020						302 88 3.23
B5	47.0	142	93	46.77	PD	8.21	8.22	-0.01	1.020						302 110 3.43
B11	47.6	159	93	47.01	PD	8.45	8.31	0.14	1.020						302 54 2.83
B6	54.8	140	93	48.02	PD	9.46	9.48	-0.02	1.020						302 37 2.53
B9	59.7	150	92	48.74	PD	10.18	10.29	-0.10	1.020	50.11	11.55	18.00	-6.45	0.000	302 92 3.33
MUCI	60.1	132	92	48.64	P00	10.08	10.35	-0.27	1.020	54.76	16.20	18.11	-1.91	0.000	302 3
MPI	102.0	133	91	56.03	P00	17.47	17.14	0.33	1.020	68.03	29.47	29.99	-0.52	0.000	302 66 3.23
JGI	111.1	104	65	57.25	P 0	18.69	18.49	0.21	1.020	0.00-38.56	32.35	-70.91	0.000		302 69 3.33
C18	135.9	140	65	1.21	P 0	22.65	22.13	0.53	0.000	16.91	38.35	38.72	-0.37	0.000	302 3
GRI	161.5	104	65	5.18	P 0	26.62	25.90	0.73	0.000	24.41	45.85	45.32	0.53	0.000	302 86 3.63
TMI	204.8	124	50	11.39	P 0	32.83	32.03	0.80	0.000	35.64	57.08	56.06	1.03	0.000	302 3
IMW	251.8	101	50	18.07	P 0	39.51	37.91	1.60	0.000	0.00	21.44	66.34	-44.90	0.000	302 3
NPI	272.7	153	50	21.22	P 0	42.66	40.52	2.14	0.000	0.00	21.44	70.91	-49.47	0.000	302 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NW SW E NE Z SE
AVE. OF END POINTS 0.09 0.09 0.10 0.10 0.12 0.12 0.14

NUMBER 23
RMS MIN DRMS AVE DRMS QUALITY D
0.14 0.05 0.11

03/11/10 13/25 BEGIN-----BEGIN-----03/11/10 13/25

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SUD ADJ IN MR AVR AAR NM AVXM SDHM NF AVFM SDFM
 031110 1325 51.07 44N11.91 114W 0.05 10.60 2.55 12 14 102 1 0.09 0.8 1.8 0 A19 0.05 10 15 0.00 0.08 0 0.0 0.0 10 2.6 0.3
 SE OF ORIG = 0.072 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA (-)
 STN DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
 016 3.9 109 158 53.131PO 2.06 1.99 0.07 1.053 57.14 6.07 5.91 0.16 0.000 04 36 2.30
 04 12.2 91 126 53.861P 2.79 2.82 -0.03 1.053 58.80 7.73 7.74 -0.01 0.737 04 40 2.50
 017 14.1 321 121 54.121PC 3.05 3.10 -0.05 1.053 61.65 10.58 10.32 0.26 0.000 04 49 2.60
 015 16.1 262 117 54.301PC 3.23 3.38 -0.15 1.053 61.89 10.82 10.91 -0.08 0.737 04 49 2.70
 01 23.1 349 107 55.611PO 4.54 4.43 0.12 1.053 64.02 12.95 13.18 -0.22 0.000 04 29 2.20
 012 24.9 191 106 55.881PC 4.81 4.70 0.11 1.053 0.08 1.053 04 70 3.00
 011 32.4 152 101 57.051PO 5.98 5.90 -0.01 1.053 0.13 1.053 04 21 2.00
 05 34.5 128 100 57.231PC 6.22 6.23 -0.01 1.053 0.06 1.053 04 50 2.80
 06 42.6 127 97 58.471PO 7.40 7.53 0.00 1.053
 09 45.6 142 96 59.141PO 8.07 8.01

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW NW SE E Z NE N
 AVE. OF END POINTS 0.11 0.12 0.12 0.13 0.14 0.19 0.21

NUMBER RMS MIN RMS AVE RMS QUALITY
 6 0.09 0.00 0.14 0

03/11/10 14/18 BEGIN-----BEGIN-----03/11/10 14/18

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SUD ADJ IN MR AVR AAR NM AVXM SDHM NF AVFM SDFM
 031110 1418 5.66 44N10.18 113W59.01 12.62 2.32 11 17 77 1 0.06 0.7 1.4 A A1A 0.11 10 12 0.00 0.05 0 0.0 0.0 10 2.3 0.4
 SE OF ORIG = 0.064 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA (-)
 STN DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
 016 3.0 50 166 7.961PO 2.30 2.26 0.05 1.028 10.44 4.78 3.95 0.83 0.000 305 25 2.03
 04 11.2 74 135 8.551PO 2.89 2.93 -0.04 1.028 305 58 2.83
 015 17.4 273 121 9.311PC 3.65 3.72 -0.07 1.028 305 46 2.63
 017 17.5 324 121 9.381PC 3.72 3.74 -0.02 1.028 305 30 2.23
 012 22.1 196 115 10.051PO 4.39 4.39 0.01 1.028 305 40 2.53
 01 26.5 348 110 10.761PO 5.10 5.06 0.04 1.028 305 24 2.13
 011 28.9 151 108 11.191PC 5.53 5.43 0.10 1.028 305 22 2.03
 05 31.5 125 106 11.571PO 5.91 5.82 0.09 1.028 305 57 2.83
 06 39.5 125 102 12.681PC 7.02 7.09 -0.07 1.028 305 15 1.73
 09 42.2 141 101 13.131PC 7.47 7.51 -0.04 1.028 305 34 2.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE N Z SW NE E
 AVE. OF END POINTS 0.05 0.10 0.16 0.18 0.20 0.20 0.20

83/11/10 18/11 BEGIN-----BEGIN-----83/11/10 18/11

HORIZONTAL SE = 0.98 VERTICAL SE = 1.44 QUALITY = A
AZ = 3. AZ = -87.

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERN ERZ Q SQD ADJ IN NR AVR AAR NM AVNM SDXM MF AVFM SDFM
831110 1811 57.81 44M16.14 114W 5.16 5.72 13 13 117 1 0.13 1.0 1.4 8 818 0.13 10 26 0.00 0.10 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.073 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STM DIST AZM AIM PSEC PRMK+TCOR-QTTTB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
NWST 5.4 107 135 59.29 P00 1.48 1.45 0.03 1.000 0.00-57.81 2.54-60.35 0.000
ANPI 11.0 145 116 0.03 P 0 2.22 2.28 -0.05 1.000 0.00 2.19 3.99 -1.79 0.000
NSUI 12.7 105 112 0.35 P 0 2.54 2.56 -0.01 1.000 0.00 2.19 4.48 -2.28 0.000
AIR 16.2 355 108 1.20 P00 3.39 3.14 0.25 1.000 0.00 2.19 5.50 -3.30 0.000
RCI 17.1 239 107 1.00 P 0 3.19 3.28 -0.09 1.000 3.25 5.44 5.75 -0.30 0.000
M-2 20.8 124 104 2.10 P00 4.29 3.93 0.20 1.000 0.00 2.19 6.88 -4.98 0.000
CGI 21.6 77 103 1.75 PC0 3.94 4.06 -0.11 1.000 0.00 2.19 7.10 -4.91 0.000
YBAI 24.7 129 102 2.40 P+0 4.59 4.61 -0.02 1.000 0.00 2.19 8.07 -5.88 0.000
GCI 26.3 38 101 2.44 PC0 4.63 4.88 -0.25 1.000 5.24 7.43 8.54 -1.11 0.000
BRPI 29.7 159 100 3.38 PC0 5.57 5.49 -0.08 1.000 0.00 2.19 9.62 -7.42 0.000
ORCI 31.9 175 65 3.58 P+0 5.77 5.87 -0.09 1.000 0.00 2.19 10.27 -8.07 0.000
LSGS 32.4 113 65 3.82 P+0 6.01 5.93 -0.08 1.000 0.00 2.19 10.38 -8.19 0.000
LCRI 37.0 133 65 4.48 P 0 6.67 6.69 -0.01 1.000 0.00 2.19 11.70 -9.51 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE E NW Z NE N SW
AVE. OF END POINTS 0.04 0.06 0.08 0.09 0.09 0.12 0.14

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.13 0.03 0.09 D

-----END-----END-----END-----END-----

83/11/11 3/10 BEGIN 83/11/11 3/10

HORIZONTAL SE = 0.79 VERTICAL SE = 1.79
AZ = -43. AZ = -133. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831111 318 11.76 44N 9.92 113W59.64 10.72 2.60 31 7 81 1 0.17 0.8 1.8 8 WIA 0.23 10 56 0.00 0.13 0 0.0 0.0 9 2.6 0.2
SE OF DRIG = 0.080 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMK+TCOR-DSTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
ANP1 2.7 339 165 13.60 P 0 1.84 1.95 -0.10 1.020 17.08 5.92 5.63 -0.23 0.000 312 3
816 3.9 52 158 13.861P 2.10 2.01 -0.09 1.020 17.56 5.80 6.02 -0.22 0.000 312 3
WSU1 7.3 37 143 13.92 P 2.16 2.29 -0.12 1.020 17.56 5.80 6.04 -0.24 0.714 312 59 2.83
MSU1 9.6 31 134 14.36 PCO 2.60 2.53 0.07 1.020 17.77 6.01 7.16 -1.15 0.000 312 3
W-2 9.8 91 134 14.49 PCO 2.73 2.55 0.01 1.020 18.88 7.12 7.25 -0.13 0.000 312 3
WMS1 10.2 348 132 14.29 P00 2.53 2.60 -0.06 1.020 18.15 6.99 7.28 -0.28 0.000 312 47 2.63
84 12.1 73 127 14.411P 2.65 2.83 -0.18 1.020 19.85 8.09 7.30 0.79 0.000 312 3
M8A1 12.6 109 126 15.05 P-0 3.29 2.89 0.41 1.020 0.00-11.76 5.05-16.81 0.000 312 3
8SU3 14.2 349 122 15.17 P- 3.41 3.12 0.29 1.020 16.46 4.70 5.47 -0.77 0.000 312 3
8SPI 14.3 65 122 14.96 P-0 3.20 3.13 0.08 1.020 17.08 5.92 5.63 -0.23 0.000 312 3
M-1 14.9 136 120 15.28 PCO 3.52 3.22 0.01 1.020 17.56 5.80 6.02 -0.22 0.000 312 3
8RP1 16.5 168 117 15.36 PCO 3.60 3.44 -0.16 1.020 17.56 5.80 6.04 -0.24 0.714 312 59 2.83
815 16.6 325 117 15.201PD 3.44 3.45 -0.01 1.020 17.77 6.01 7.16 -1.15 0.000 312 3
817 17.5 277 119 15.171PD 3.41 3.57 -0.16 1.020 18.88 7.12 7.25 -0.13 0.000 312 3
8RC1 20.9 193 110 15.87 PCO 4.11 4.09 -0.02 1.020 18.15 6.99 7.28 -0.28 0.000 312 3
SGF 21.2 126 110 15.88 P+ 4.12 4.14 0.04 1.020 19.85 8.09 7.30 0.79 0.000 312 47 2.63
CGI 21.3 40 110 15.95 PCO 4.19 4.16 0.12 1.020 0.00-11.76 5.05-16.81 0.000 312 3
812 21.4 194 110 16.051PC 4.29 4.17 0.08 1.020 0.00-11.76 5.05-16.81 0.000 312 3
LGS1 22.4 93 108 16.09 P-0 4.33 4.33 0.00 1.020 0.00-11.76 5.05-16.81 0.000 312 3
LCRI 24.0 125 107 16.03 P 4.27 4.58 -0.30 1.020 59.92 48.16 8.77 39.40 0.000 312 32 2.33
81 26.8 350 104 16.04EPC 4.88 5.01 -0.12 1.020 21.73 9.97 9.33 0.64 0.000 312 26 2.13
811 28.9 149 103 17.061PC 5.30 5.33 -0.03 1.020 23.01 11.25 10.19 1.07 0.000 312 61 2.33
MIR 29.0 343 103 17.60 PCO 5.84 5.35 0.43 1.020 0.00-11.76 5.05-16.81 0.000 312 3
85 31.9 123 101 17.681P 5.92 5.82 0.10 1.020 20.11 8.35 12.45 -4.09 0.000 312 3
GCI 33.4 15 100 17.63 PCO 5.87 6.07 -0.19 1.020 24.50 12.74 13.12 -0.38 0.000 312 48 2.73
86 40.0 124 98 18.73EPD 6.97 7.11 -0.14 1.020 24.08 12.32 14.51 -2.18 0.000 312 3
39 42.4 140 97 19.14EPD 7.38 7.50 -0.11 1.020 24.08 12.32 14.51 -2.18 0.000 312 3
MDC1 47.3 116 96 19.93 P00 8.17 8.29 -0.12 1.020 24.08 12.32 14.51 -2.18 0.000 312 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH L ME SW NW E N SE
AVE. OF END POINTS 0.24 0.54 0.56 0.77 0.82 0.86 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
31 0.17 0.25 0.70 B


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03/11/11-----BEGIN-----03/11/11-----6' 3
                                VERTICAL
                                SE = 10.57    QUALITY = D
03/11/11-----BEGIN-----03/11/11-----6' 3
                                HORIZONTAL
                                SE = 1.61
                                AZ = -96.

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[illegible][illegible]

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	E	NW	Z	N	SE	SW	NE
Ave. of end points	0.07	0.09	0.10	0.13	0.15	0.17	0.19

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
9	0.10	0.03			0.13	0

END
END
END
END

83/11/11 10/32 BEGIN-----BEGIN-----83/11/11 10/32

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM MF AVFM SOFM
831111 1032 54.40 44N12.54 114W 2.69 4.95 2.32 11 13 97 1 0.13 1.2 1.9 8 110 0.27 10 20 0.00 0.12 0 0.0 0.0 9 2.3 0.3
SE OF ORIG = 0.064
9 ITERATIONS TOTAL
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
916 7.6 109 121 56.20IPC 1.80 1.66 -0.07 1.028 59.74 5.54 2.91 2.63 0.000 36 2.3
817 11.2 331 112 56.58IPC 2.18 2.25 -0.01 1.028 59.48 4.08 3.94 0.14 0.720 46 2.5
815 12.9 255 109 56.95IPC 2.55 2.54 -0.01 1.028 60.15 5.75 4.45 1.30 0.000 53 2.7
94 15.7 95 105 57.29IPC 2.89 3.02 -0.13 1.028 59.35 4.95 5.28 -0.33 0.000 27 2.1
91 21.5 358 101 58.37IPC 3.97 4.02 -0.05 1.028 61.21 6.81 7.03 -0.23 0.000 45 2.6
812 25.6 183 99 59.00IPC 4.60 4.75 -0.15 1.028 63.10 8.70 8.31 0.39 0.000 21 1.9
911 35.2 148 97 60.99IPC 6.59 6.44 -0.15 1.028 59.94 5.54 11.27 -5.74 0.000 42 2.5
95 38.0 126 65 61.08IPC 6.68 6.91 -0.23 1.028 66.50 12.10 12.09 0.01 0.000 17 1.8
86 46.1 126 65 62.73EPD 8.33 8.22 0.11 1.028 59.93 5.53 14.38 -8.86 0.000 36 2.4
89 48.7 140 65 63.18EPD 8.78 8.64 0.13 1.028 69.19 14.79 15.13 -0.34 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW SE Z N ME NW E
AVE. OF END POINTS 0.00 0.05 0.09 0.10 0.11 0.11 0.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.13 -0.04 0.09 0

83/11/11 14/13 BEGIN-----BEGIN-----83/11/11 14/13

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM MF AVFM SOFM
831111 1413 58.19 44N12.64 113W57.72 4.71 1.39 8 19 119 1 0.04 0.5 0.7 8 110 0.50 10 16 0.00 0.03 0 0.0 0.0 6 1.4 0.3
SE OF ORIG = 0.031
3 ITERATIONS TOTAL
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
916 2.7 168 149 59.25IPC 1.06 1.01 0.06 1.039 62.15 3.96 1.76 2.20 0.000 319 15 1.53
84 9.2 100 115 0.08IPC 1.89 1.90 -0.01 1.039 1.50 3.31 3.33 -0.02 0.727 319 3
815 19.4 259 102 1.80IPC 3.61 3.64 -0.03 1.039 59.90 61.71 6.37 55.34 0.000 319 15 1.63
81 22.6 341 100 2.40IPC 4.21 4.21 0.01 1.039 4.10 5.91 7.36 -1.45 0.000 319 6 0.83
812 26.9 197 98 3.14EPC 4.95 4.98 -0.02 1.039 59.94 61.75 8.71 53.04 0.000 319 15 1.63
911 32.3 158 97 4.75EPD 6.56 5.92 0.64 0.000 59.95 61.76 10.36 51.40 0.000 319 11 1.43
85 33.0 133 97 4.18IPC 5.99 6.05 -0.05 1.039 8.15 9.96 10.59 -0.62 0.000 319 3
89 44.8 146 65 6.28EPD 8.09 8.04 0.06 1.039 11.88 13.69 14.06 -0.37 0.000 319 12 1.53

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z ME SW NW SE N E
AVE. OF END POINTS 0.37 0.74 0.43 0.99 1.02 1.02 1.19

83/11/11 9/25 BEGIN-----BEGIN-----83/11/11 9/25

HORIZONTAL
SE = 0.33
AZ = -62.
VERTICAL
SE = 1.08
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831111 925 8.66 44N14.25 114W 3.17 8.96 2.21 11 14 106 1 0.04 0.5 1.1 8 A18 0.07 10 19 0.00 0.04 0 0.0 0.0 10 2.2 0.2
SE OF ORIG = 0.041 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR RMAG R FMP FMAG
017 8.2 324 133 10.781PD 2.12 2.16 -0.05 1.028 11.74 3.08 3.79 -0.71 0.000 316 25 2.03
016 9.6 126 127 11.031PC 2.37 2.34 0.03 1.028 12.94 4.28 4.09 0.19 0.000 316 34 2.33
015 13.5 241 116 11.581PD 2.92 2.88 0.04 1.028 13.81 5.15 5.03 0.11 0.000 316 40 2.43
04 16.9 106 109 12.011PC 3.35 3.39 -0.04 1.028 14.61 5.95 5.94 0.01 0.720 316 39 2.43
01 18.3 360 107 12.301PC 3.64 3.61 0.03 1.028 16.39 7.73 6.31 1.41 0.000 316 20 1.93
012 20.8 181 97 13.851PC 5.19 5.27 -0.08 1.028 59.95 51.29 9.22 42.07 0.000 316 32 2.33
011 38.2 149 95 15.54EPC 6.88 6.80 0.08 1.028 59.94 51.28 11.90 39.38 0.000 316 18 1.83
05 40.4 129 94 15.791PD 7.13 7.16 -0.03 1.028 20.30 11.64 12.53 -0.89 0.000 316 24 2.13
06 48.5 128 93 17.131PD 8.47 8.47 0.00 1.028 59.89 51.23 15.67 35.55 0.000 316 28 2.33
09 51.5 141 93 17.63EP 8.97 8.96 0.01 1.028

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE SW NW E NE Z
AVE. OF END POINTS 0.11 0.12 0.13 0.14 0.16 0.18 0.28

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.04 0.00 0.15 0

83/11/11 9/25 BEGIN-----BEGIN-----83/11/11 9/55

HORIZONTAL
SE = 0.42
AZ = -28.
VERTICAL
SE = 1.30
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831111 955 48.29 44N11.08 113W59.99 9.16 2.33 11 15 94 1 0.06 0.5 1.3 8 A18 0.08 10 20 0.00 0.04 0 0.0 0.0 9 2.3 0.3
SE OF ORIG = 0.047 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR RMAG R FMP FMAG
016 3.6 86 157 50.041PD 1.75 1.76 -0.01 1.028 59.94 11.65 3.07 8.58 0.000 317 41 2.43
04 12.1 84 120 51.001PD 2.71 2.70 0.01 1.028 53.65 5.36 4.72 0.63 0.000 317 55 2.73
017 15.4 324 113 51.461PC 3.17 3.18 -0.01 1.028 53.68 5.39 5.56 -0.17 0.000 317 30 2.23
015 16.1 267 111 51.601PC 3.31 3.28 0.03 1.028 53.61 5.32 5.74 -0.42 0.000 317 43 2.53
012 23.4 192 102 52.631PC 4.34 4.42 -0.08 1.028 56.05 7.76 7.73 0.03 0.720 317 42 2.53
01 24.6 350 101 52.911PC 4.62 4.61 0.01 1.028 55.36 7.07 8.07 -1.00 0.000 317 23 2.03
011 31.0 150 97 53.921PD 5.63 5.63 -0.01 1.028 57.71 9.42 9.86 -0.44 0.000 317 19 1.93
05 33.5 126 96 54.401PC 6.11 6.03 0.07 1.028 58.55 10.26 10.56 -0.30 0.000 317 26 2.23
06 41.6 126 94 55.491PC 7.20 7.33 -0.14 1.028 57.71 9.42 12.83 -3.42 0.000 317 38 2.53
09 44.3 141 94 56.191PD 7.90 7.79 0.11 1.028

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE SW NW E NE Z
AVE. OF END POINTS 0.06 0.13 0.17 0.19 0.21 0.22 0.25

83/11/11 16/55 BEGIN BEGIN BEGIN 83/11/11 16/55

HORIZONTAL SE = 0.59 SE = 1.31 QUALITY = A
AZ = -29. AZ = -119.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP W RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
#31111 1655 34.47 44N13.69 114W 5.79 4.89 2.43 27 8 98 1 0.16 0.7 1.3 8 818 0.41 10 52 0.00 0.12 0 0.0 0.0 9 2.4 0.3
SE OF ORIG = 0.056 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM ATN PSCC PRMK+TCOR-D+TT08-TTCAL-DELT-EDLV=P-RES P-WT THIC SSC SRMK TTOP TTCL S-RES S-WT AMX PR FMAG R FMP FMAG
NWSI 6.7 64 124 36.11 PC0 1.64 1.53 0.11 1.023 0.00-36.47 2.68-37.15 0.000 320 3
B17 7.8 350 120 35.951P 1.48 1.68 -0.20 1.023 37.47 3.00 2.95 0.05 0.716 320 35 2.33
ANPI 8.5 122 118 36.20 P 0 1.73 1.79 -0.06 1.023 0.00-36.47 3.14-37.61 0.000 320 3
315 10.0 236 114 36.50IPC 2.03 2.05 -0.02 1.023 37.90 3.43 3.59 0.16 0.000 320 44 2.53
316 12.2 112 110 36.77IPC 2.30 2.41 -0.11 1.023 39.05 4.58 4.22 0.36 0.716 320 49 2.63
NSUI 13.2 85 108 37.16 PC0 2.69 2.59 -0.10 1.023 0.00-36.47 4.53-39.00 0.000 320 3
RCI 14.4 253 107 37.20 P 0 2.73 2.79 -0.06 1.023 0.00-36.47 4.88-39.35 0.000 320 3
4-2 19.4 112 102 38.26 PC0 3.19 3.65 0.17 -0.03 1.023 0.00-36.47 6.38-41.15 0.000 320 3
31 19.7 10 102 38.28EPD 3.31 3.69 0.12 1.023 42.07 7.60 6.46 1.14 0.000 320 37 2.43
94 20.1 100 102 38.10PC 3.63 3.77 -0.14 1.023 41.30 6.83 6.59 0.24 0.000 320 60 2.93
MIR 20.7 359 101 38.70 PC0 4.23 3.87 0.36 1.023 0.00-36.47 6.78-41.25 0.000 320 3
DSPI 21.2 93 101 38.34 PC0 3.87 3.96 -0.09 1.023 0.00-36.47 6.92-41.39 0.000 320 3
MBAI 22.9 119 100 38.77 PC0 4.30 4.27 0.03 1.023 0.00-36.47 7.47-41.94 0.000 320 3
CGI 23.7 67 100 38.80 PC0 4.33 4.42 -0.09 1.023 42.30 7.83 7.73 0.10 0.000 320 3
M-1 25.7 133 99 40.03 P 3 5.56 4.76 0.50M0.000 0.00-36.47 8.33-43.32 0.000 320 3
ARPI 25.9 154 99 39.30 P+0 4.83 4.80 0.03 1.023 40.70 6.23 8.40 -2.17 0.000 320 3
5RCI 27.5 173 99 39.70 P-0 5.23 5.08 -0.04 1.023 43.49 9.02 9.00 0.02 0.000 320 47 2.63
312 27.9 174 98 39.58EP 5.11 5.15 0.15 1.023 42.92 8.45 9.81 -1.36 0.000 320 3
GCI 30.5 34 98 39.82 P00 5.35 5.60 -0.25 1.023 44.47 10.00 10.18 -0.18 0.000 320 3
LSGS 31.7 105 97 40.30 P00 5.83 5.82 0.01 1.023 44.24 9.77 10.27 -0.50 0.000 320 3
SGF 32.0 128 97 39.98 P 5.31 5.87 -0.36 1.023 47.30 12.83 12.46 0.37 0.000 320 23 2.03
LCRI 34.8 127 97 40.95 P 0 6.48 6.37 0.11 1.023 48.40 13.93 13.40 0.53 0.000 320 52 2.73
311 39.3 164 65 41.75IP 7.28 7.12 0.16 1.023 49.93 15.46 15.70 -0.24 0.000 320 20 1.93
35 42.6 125 65 42.00EP 7.53 7.66 -0.13 1.023 0.00-36.47 17.71-52.18 0.000 320 3
36 50.7 125 65 43.61EP 9.14 8.97 0.17 1.023
MOCI 57.8 118 65 44.54 P-0 10.07 10.12 -0.05 1.023

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E Z NW SE SW NE N
AVE. OF END POINTS 0.06 0.07 0.08 0.08 0.08 0.09 0.14

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.16 0.04 0.09 D

END END END END

83/11/11 16/52 BEGIN-----BEGIN-----83/11/11 16/52

HORIZONTAL SE = 2.01 SE = 2.84 VERTICAL SE = 99.00 QUALITY = 0
AZ = -49. AZ = 41.

DATE ORIGIN LAT LONG DEPTH MAG MO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SDFM
831111 1652 14.78 44N 6.72 113W53.13 0.00 1.95 4 26 145 1 0.14 2.0 99.0 0 C10 1.54 10 10 0.00 0.13 0 0.0 0.0 5 1.9 0.3
SE OF ORIG = 10.000 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN Q1ST AZM AIM PSEC PRMK+TCOR-Q-TT08-TTICAL-DELT-EDLV= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR KMAG R FMP FMAG
811 19.9 162 58 19.52EPC 4.74 3.77 0.97M0.000 22.70 7.92 6.60 1.32 0.000 321 19 1.83
812 20.4 224 58 18.78IPC 4.00 3.87 0.13 1.000 21.44 6.66 6.78 -0.11 0.000 321 20 2.13
95 21.4 123 58 18.76IPC 3.98 4.04 -0.06 1.000 59.90 45.12 7.08 38.05 0.000 321 32 2.23
815 26.3 286 58 19.50IPC 4.72 4.93 -0.20 1.000 59.90 45.12 8.62 36.50 0.000 321 33 2.33
41 35.0 337 58 21.39IPC 6.61 6.68 0.13 1.000 34.30 19.52 11.35 8.18 0.000 321 12 1.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE E SE NW
AVE. OF END POINTS 0.03 0.53 0.55 0.66 0.69 0.78 0.82

NUMBER RMS MIN RMS AVE DRMS QUALITY
4 0.14 0.06 0.62 C

-----END-----END-----END-----END-----

83/11/11 22/50 -----BEGIN----- 83/11/11 22/50

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM S0XM MF AVFM S0FM
831111 2250 47.94 44N 6.07 113W 44.94 10.33 3.08 30 8 66 1 0.15 0.7 1.7 A AIA 0.11 10 72 0.00 0.10 0 0.0 0.0 12 3.1 0.5
SE OF ORIG = 0.071 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA (---)
STN DIST AZM AIN PSEC PRNK+TCOR-D-TTDB-TICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR XNAG R FMP FNAQ
M-1 5.5 130 150 50.20 PCO 2.26 2.06 0.30 -0.10 1.010 0.00-47.94 3.61-52.07 0.000 324 3
M8A1 6.4 61 145 50.24 PCO 2.30 2.15 0.15 1.010 0.00-47.94 3.76-51.70 0.000 324 3
M-2 7.7 27 140 50.45 P00 2.51 2.28 0.17 0.07 1.010 0.00-47.94 3.93-52.22 0.000 324 3
913 9.2 260 134 50.45IPC 2.51 2.84 0.08 1.010 52.29 4.35 4.27 0.09 0.000 324 62 2.03
SRP1 9.5 198 133 50.30 PC4 2.36 2.48 -0.11 0.000 0.00-47.94 4.36-52.27 0.000 324 3
d16 10.0 342 131 50.46IPD 2.52 2.54 -0.01 1.010 56.56 8.62 4.46 4.18 0.000 324 59 2.03
F50 10.9 28 129 50.60 P 0 2.66 2.64 0.03 1.010 52.45 4.51 4.61 -0.10 0.000 324 3
94 11.9 27 126 50.72IP 2.78 2.76 0.02 1.010 53.30 5.36 4.83 0.53 0.000 324 118 3.43
ANP1 12.1 323 126 50.71 P 0 2.77 2.78 -0.01 1.010 0.00-47.94 4.87-52.81 0.000 324 3
34F 12.1 116 126 50.67 PC 2.73 2.79 0.06 1.010 52.64 4.70 4.88 -0.18 0.000 324 3
45U1 13.1 352 123 50.83 PD 2.89 2.93 -0.04 1.010 0.00-47.94 5.52-53.45 0.000 324 3
OSP1 14.7 27 119 50.75 P-0 2.81 3.15 -0.34 1.010 0.00-47.94 5.59-53.52 0.000 324 3
LCRI 15.0 116 119 51.16 P00 3.22 3.19 0.03 1.010 0.00-47.94 5.69-53.63 0.000 324 3
NSU1 15.4 355 118 51.17 P 0 3.23 3.25 -0.02 1.010 0.00-47.94 5.69-53.63 0.000 324 3
9RC1 17.2 220 114 51.40 PC0 3.46 3.51 -0.05 1.010 0.00-47.94 6.16-54.08 0.000 324 3
LSGS 17.2 70 114 51.66 P-0 3.72 3.51 0.21 1.010 0.00-47.94 6.15-54.08 0.000 324 3
d12 17.9 221 113 51.43IPC 3.69 3.62 0.07 1.010 54.49 6.55 6.36 0.21 0.000 324 75 3.03
BMF 18.8 331 112 51.57 PD 3.63 3.76 -0.13 1.010 54.15 6.21 6.58 -0.37 0.000 324 3
MWS1 19.0 334 111 51.67 P-0 3.73 3.79 -0.06 1.010 0.00-47.94 6.64-54.57 0.000 324 3
d11 19.7 154 111 51.83IPD 3.89 3.89 0.01 1.010 54.75 6.81 6.80 0.01 0.000 324 74 3.03
d5 22.9 117 107 52.40IP 4.46 4.38 0.08 1.010 55.45 7.51 7.67 -0.15 0.000 324 102 3.33
d5U3 22.9 337 107 52.56 P + 4.62 4.39 0.24 1.010 55.45 7.51 7.67 -0.15 0.000 324 3
d15 24.6 291 105 52.58IP 4.64 4.61 0.03 1.010 55.55 7.61 8.07 -0.46 0.000 324 92 3.23
CGI 24.6 18 105 52.56 PC0 4.62 4.64 -0.02 1.010 55.76 7.82 8.12 -0.30 0.000 324 3
d17 26.9 324 103 52.76IPD 4.82 5.00 -0.17 1.010 56.46 8.52 8.75 -0.22 0.707 324 3
ACI 29.9 289 101 53.35 P00 5.41 5.50 -0.09 1.010 0.00-47.94 9.62-57.56 0.000 324 3
36 30.9 119 101 53.46IPD 5.52 5.66 -0.13 1.010 57.73 9.79 9.90 -0.11 0.000 324 20 1.93
d1 35.3 342 99 54.28IPC 6.34 6.35 -0.01 1.010 50.09 2.15 11.11 -8.96 0.000 324 50 2.73
MIR 37.9 337 98 55.18 P00 7.24 6.76 0.48 1.010 0.00-47.94 11.86-59.77 0.000 324 3
MDC1 38.8 110 98 54.74 P00 6.80 6.91 -0.11 1.010 59.09 11.15 12.10 -0.94 0.000 324 3
JGI 99.2 91 65 5.95 P 4 18.01 16.63 1.34 0.000 16.91 28.97 29.11 -0.14 0.000 324 82 3.43
C14 110.4 135 65 7.06 P00 19.12 18.28 0.84M0.000 20.80 32.86 32.00 0.87 0.000 324 3
G01 149.1 95 65 12.56 P 0 24.62 23.97 0.65M0.000 30.31 42.37 41.95 0.42 0.000 324 94 3.73
TMI 183.7 119 65 17.46 P 0 29.52 29.06 0.46G0.000 39.79 51.45 50.85 1.00 0.000 324 90 3.43
IMW 233.4 95 50 25.81 P 0 37.87 36.26 1.62M0.000 0.00 12.06 63.45-51.39 0.000 324 3
MPI 245.1 152 50 26.79 P 0 38.85 36.91 1.94M0.000 0.00 12.06 64.60-52.53 0.000 324 3
MLI 272.7 148 50 30.83 PC0 42.89 40.36 2.53M0.000 0.00 12.06 70.63-58.57 0.000 324 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N SW 2 E NE NW
AVE. OF END POINTS 0.08 0.09 0.10 0.10 0.11 0.11 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY

83/11/11 19/22 BEGIN BEGIN 83/11/11 19/22

HORIZONTAL SE = 0.39 SE = 0.60 VERTICAL SE = 0.90
AZ = -45. AZ = -135.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
931111 1922 55.78 44N14.64 114W 2.94 10.20 2.17 9 14 110 1 0.05 0.6 0.9 8 A18 0.14 10 16 0.00 0.04 0 0.0 0.0 8 2.2 0.3
SE OF ORIG = 0.046 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SIN DIST AZM AIM PSEC PRMK+TCOR=0-TTDB-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
816 7.8 319 139 57.971PC 2.19 2.27 0.08 1.034 60.15 4.37 3.97 0.40 0.000 322 26 2.13
817 9.8 130 132 58.281PC 2.50 2.50 0.00 1.034 60.18 4.40 4.37 0.03 0.724 322 30 2.23
915 14.2 239 120 58.931PC 3.15 3.07 0.08 1.034 61.50 5.72 5.37 0.35 0.000 322 40 2.53
84 16.8 108 115 59.221PC 3.44 3.45 -0.01 1.034 59.90 4.12 6.03 -1.91 0.000 322 40 2.53
81 17.6 359 113 59.401PC 3.62 3.58 0.04 1.034 62.30 6.52 6.26 0.26 0.000 322 22 1.93
812 29.5 182 101 61.141PC 5.36 5.42 -0.06 1.034 59.94 4.16 9.49 -5.33 0.000 322 26 2.13
85 40.7 130 97 63.001PC 7.22 7.21 0.00 1.034 59.95 4.17 12.62 -8.45 0.000 322 37 2.53
86 48.7 129 95 64.311PC 8.53 8.51 0.01 1.034 71.23 15.45 14.90 0.55 0.000 322 13 1.63

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW E NW NE N Z SE
AVE. OF END POINTS 0.12 0.12 0.15 0.15 0.19 0.24 0.29

NUMBER 6
RMS MIN ORMS AVE ORMS QUALITY
0.05 0.03 0.17 0

83/11/11 20/31 BEGIN BEGIN 83/11/11 20/31

HORIZONTAL SE = 0.38 SE = 0.77 VERTICAL SE = 0.89
AZ = -35. AZ = -125.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
931111 2031 1.13 44N14.24 114W 2.28 8.74 2.31 11 16 135 1 0.05 0.8 0.9 8 A18 0.34 10 20 0.00 0.04 0 0.0 0.0 8 2.3 0.4
SE OF ORIG = 0.041 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SIN DIST AZM AIM PSEC PRMK+TCOR=0-TTDB-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
816 8.7 130 130 3.441PC 2.31 2.20 0.12 1.028 4.93 3.80 3.85 -0.04 0.720 323 42 2.53
817 8.9 318 129 3.341PC 2.21 2.23 -0.02 1.028 5.14 4.01 3.90 0.11 0.000 323 28 2.13
FSO 15.8 110 110 4.30 P 3.17 3.21 -0.03 1.028 6.70 5.57 5.61 -0.03 0.000 323 3
84 15.8 107 110 4.301PC 3.17 3.21 -0.03 1.028 59.90 58.77 5.61 53.16 0.000 323 52 2.73
81 18.4 356 105 4.741PC 3.61 3.61 0.01 1.028 59.30 58.77 6.31 52.46 0.000 323 28 2.13
812 28.8 184 97 6.371PC 5.24 5.26 -0.02 1.028 10.04 8.91 9.21 -0.29 0.000 323 44 2.63
SGF 29.1 135 96 6.35 PC 5.22 5.31 -0.03 1.028 10.27 9.14 9.30 -0.15 0.000 323 3
811 37.6 131 94 7.821PC 6.69 6.70 0.00 1.028 13.00 11.87 11.72 0.16 0.000 323 31 2.33
85 39.5 130 94 8.141PC 7.01 7.01 0.01 1.028 59.95 58.82 12.26 46.56 0.000 323 49 2.73
86 47.6 129 93 9.521PC 8.39 8.31 0.08 1.028 59.93 58.80 14.55 44.26 0.000 323 11 1.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW N SE E NE Z
AVE. OF END POINTS 0.09 0.11 0.13 0.13 0.17 0.19 0.21

NUMBER 6
RMS MIN ORMS AVE ORMS QUALITY
0.05 0.03 0.17 0

```

-----BEGIN-----BEGIN-----
03/11/12 0/22 03/11/12 0/22

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HORIZONTAL	SE = 1.21	VERTICAL	SE = 1.33
AZ = -29.	AZ = -119.		QUALITY = A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	O3	GAP	M	RMS	ERM	Q	SQD	AOJ	IN	NR	AVR	AAR	MM	AVKM	SOXM	NP	AVFM	SDFM
931112	022	8.23	44N	17.06	18	5	110	1	0.16	1.2	1.3	8	818	0.34	10	34	0.00	0.12	0	0.0	0	0	0.0	0.0
SE OF ORIG = 0.074																								
5 ITERATIONS TOTAL																								

C- STATION DATA --	(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----)	VARI (---- S-WAVE TRAVEL-TIME DATA ----)(---- MAGNITUDE DATA ---)
STN DIST AZM IN PSEC PRMK+TCOR-DATON-TTCAL-DLAY-EOLY=	P-RES P-WT THIC SSEC SRNK TT0B TTCL S-RES S-WT ANX PR XMAG R FMP FMAG	
95SUJ	2.8 73 155 9.65 PO 1.42 1.40 0.02 1.165	
BWF	4.6 146 142 9.72 PO 1.49 1.55 -0.06 1.165	
MWSI	4.6 133 142 9.79 PD2 1.56 1.55 0.01 0.291	10.77 2.54 2.70 -0.17 0.816
NSUI	11.5 115 108 11.02 P 2.79 2.46 0.32 1.165	0.00 -8.23 2.71-10.94 0.000
MSUI	12.2 126 105 10.58 P 2.35 2.58 -0.23 1.165	0.00 -8.23 4.30-12.53 0.000
MR	14.9 348 94 11.40 P 3.17 3.00 0.16 1.165	0.00 -8.23 5.26-13.49 0.000
CGI	19.4 81 91 12.46 P 2 4.23 3.73 0.09 0.291	0.00 -8.23 6.53-14.76 0.000
RGI	19.5 238 91 11.96 PCO 3.73 3.74 -0.02 1.165	0.00 -8.23 6.55-14.78 0.000
DSP1	19.8 111 91 12.03 PCO 3.80 3.79 0.01 1.165	14.59 6.36 6.63 -0.27 0.000
MW2	20.3 131 91 12.25 PCO 4.02 3.88 0.17 -0.03 1.165	0.00 -8.23 6.79-15.32 0.000
GCI	23.9 37 90 12.40 P 4.17 4.46 -0.29 1.165	0.00 -8.23 7.80-16.03 0.000
MBAI	24.4 135 90 12.84 PCO 4.61 4.54 0.06 1.165	15.78 7.55 7.95 -0.40 0.000
MW1	28.6 146 90 13.90 P+0 5.67 5.22 0.30 0.14 1.165	0.00 -8.23 9.14-17.90 0.000
HRI1	30.6 163 90 13.45 P 4 5.22 5.55 -0.34 0.000	0.00 -8.23 9.72-17.95 0.000
S1S6	31.3 117 90 13.84 PCO 5.61 5.67 -0.07 1.165	0.00 -8.23 9.93-18.16 0.000
HRCI	33.4 179 90 14.20 P 2 5.97 6.01 -0.05 0.291	0.00 -8.23 10.52-18.76 0.000
LRI	36.8 137 90 14.86 P 0 6.63 6.56 0.07 1.165	0.00 -8.23 11.48-19.71 0.000
MOCI	58.7 125 90 18.26 PCO 10.03 10.11 -0.08 1.165	0.00 -8.23 17.69-25.93 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH						
	NW	SE	E	NE	Z	SW
Ave. of End Points	0.01	0.03	0.04	0.05	0.08	0.09

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
8	0.16	0.00	0.05			0

END-----END-----END-----

83/11/11 22/59 -----BEGIN----- 83/11/11 22/59

HORIZONTAL SE = 0.63 VERTICAL SE = 1.40
AZ = -33. AZ = -123. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR MM AVXM SODM NF AVFM SODM
831111 2259 37.92 44W 4.64 113M56.77 9.49 2.37 13 13 89 1 0.08 0.6 1.4 A AIA 0.08 10 22 0.00 0.07 0 0.0 0.0 9 2.4 0.5
SE OF ORIG = 0.057 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELT-EDLT= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
813 9.3 277 131 40.301PD 2.38 2.36 0.02 1.048 42.04 4.12 4.13 -0.01 0.734 325 37 2.43
816 12.7 344 121 40.761PD 2.84 2.80 0.04 1.048 42.78 4.86 4.90 -0.04 0.734 325 47 2.63
FSD 13.2 21 119 40.80 P 2.88 2.87 0.01 1.048 43.05 5.13 5.03 0.10 0.000 325 117 3.43
84 14.2 21 117 40.901P 2.98 3.02 -0.04 1.048 54.83 16.91 5.28 11.63 0.000 325 43 2.53
812 16.1 227 113 41.291PC 3.37 3.31 0.07 1.048 43.41 5.49 5.78 -0.29 0.000 325 34 2.33
811 17.2 151 111 41.391PC 3.47 3.46 0.01 1.048 44.19 6.27 6.06 0.21 0.000 325 57 2.83
85 21.6 111 105 42.131P 4.21 4.14 0.07 1.048 44.85 6.93 7.25 -0.32 0.000 325 23 2.03
815 25.6 296 101 42.601PD 4.68 4.79 -0.11 1.048 45.60 7.68 8.38 -0.70 0.000 325 11 1.43
817 29.2 327 99 43.16EPC 5.24 5.35 -0.11 1.048 47.26 9.34 9.37 -0.03 0.000 325 22 2.03
86 29.5 115 99 43.211PD 5.29 5.41 -0.12 1.048 46.22 8.30 9.46 -1.16 0.000 325 11 1.43
31 37.9 343 96 44.881PC 6.94 6.75 0.19 1.048 49.89 11.97 11.81 0.16 0.000 325 22 2.03

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NE Z N SW NW E
AVE. OF END POINTS 0.06 0.11 0.14 0.16 0.17 0.18 0.20

NUMBER RMS MIN DRMS AVE DRMS QUALITY
7 0.08 0.01 0.14 D

-----END-----END-----END-----

03/11/12 3/37 BEGIN-----BEGIN-----03/11/12 3/37

HORIZONTAL SE = 0.44 SE = 0.58 VERTICAL SE = 0.94
AZ = -38. AZ = -128. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NP AVR AAR NM AVXM SOXM NF AVFM SDFM
#31112 337 54.94 44N10.01 113W55.80 7.39 2.53 29 6 52 1 0.13 0.6 0.9 A AIA 0.52 10 54 0.00 0.10 0 0.0 0.0 8 2.5 0.3
SE OF ORIG = 0.037 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AZM PSC PMK+TCOR-D-TT08-TTICAL-DELA-EOLV= P-RES P-WT THIC SSC SRMK YTOB TTICAL S-RES S-WT AMX PR XMAC R FMP FMAQ
816 3.0 318 155 56.351PD 1.41 1.46 -0.04 1.026 57.35 2.41 2.55 -0.14 0.718 328 54 2.73
W-2 4.7 95 143 56.74 PCO 1.80 1.60 0.17 -0.03 1.026 0.00-54.94 2.80-58.03 0.000 328 3
MSUI 5.7 353 137 56.53 PD 1.59 1.71 -0.11 1.026 0.00-54.94 3.14-58.08 0.000 328 3
AMPI 6.5 291 132 56.70 P 0 1.76 1.80 -0.04 1.026 60.19 5.25 3.30 1.95 0.000 328 3
84 7.3 63 129 56.871PD 1.93 1.88 0.05 1.026 0.00-54.94 3.46-58.38 0.000 328 3
MBAI 8.0 122 126 57.08 PCO 2.14 1.97 0.09 1.026 0.00-54.94 3.46-58.40 0.000 328 3
MSUI 8.1 359 125 57.00 PD 2.06 1.97 0.09 1.026 0.00-54.94 3.46-58.40 0.000 328 3
DSPI 9.7 54 118 57.22 PD 2.28 2.21 0.07 1.026 0.00-54.94 3.87-58.81 0.000 328 3
813 11.9 222 110 57.521PD 2.58 2.53 0.05 1.026 60.07 5.13 4.53 0.70 0.000 328 45 2.53
W-1 12.1 154 110 57.89 PD 2.95 2.56 0.09 1.026 0.00-54.94 4.48-59.94 0.000 328 3
8WF 12.2 319 109 57.42 PD 2.48 2.58 -0.09 1.026 59.36 4.42 4.51 -0.09 0.000 328 3
MSUI 12.2 323 109 57.53 PD 2.59 2.58 0.01 1.026 0.00-54.94 4.51-59.45 0.000 328 3
8SU3 15.9 330 99 58.36 PD 3.42 3.16 0.26 1.026 65.20 10.26 5.70 4.56 0.000 328 3
BRPI 16.5 186 98 58.23 PD 3.29 3.26 0.03 1.026 0.00-54.94 5.94-60.88 0.000 328 3
LSGS 17.3 94 96 58.43 PD 3.49 3.40 0.09 1.026 62.46 7.52 6.20 1.32 0.000 328 3
CGI 18.3 28 95 58.66 PD 3.72 3.54 0.18 1.026 66.93 11.99 6.87 5.12 0.000 328 30 2.23
LCRI 20.2 134 94 58.57 PD 3.63 3.86 -0.23 1.026 63.68 8.74 7.19 1.55 0.000 328 53 2.73
817 20.6 315 93 58.751PD 3.81 3.92 0.11 1.026 62.10 7.16 7.59 -0.33 0.000 328 3
815 21.7 273 93 59.101PD 4.16 4.11 0.05 1.026 62.49 7.55 7.66 -0.11 0.000 328 46 2.63
8RCI 22.8 206 93 59.10 PD 4.16 4.28 -0.12 1.026 3.67 8.73 8.75 -0.02 0.000 328 3
812 23.4 207 92 59.241PD 4.30 4.38 -0.08 1.026 64.65 9.71 8.93 0.78 0.000 328 71 3.03
811 26.8 159 92 59.861PD 4.92 4.94 -0.01 1.026 0.00 5.06 9.76 -4.70 0.000 328 3
RCI 27.2 275 92 0.17 PD 5.23 5.00 0.23 1.026 0.00 5.06 10.13 -5.13 0.000 328 3
81 27.8 129 92 60.051PD 5.11 5.11 0.01 1.026 65.84 10.90 11.23 -0.33 0.000 328 19 1.23
81 28.0 339 92 60.091PD 5.15 5.13 0.02 1.026 5.97 11.03 13.18 -2.15 0.000 328 3
MIR 30.7 333 91 1.10 PD 6.16 5.58 0.59M0.000 0.00 5.06 9.76 -4.70 0.000 328 3
GCI 32.3 7 91 0.40 PD 5.46 5.82 -0.36 1.026 65.84 10.90 11.23 -0.33 0.000 328 3
86 35.9 128 91 61.331PD 6.39 6.42 -0.02 1.026 5.97 11.03 13.18 -2.15 0.000 328 3
MDCI 42.8 119 91 2.27 PD1 7.33 7.53 -0.20 0.577 0.00 5.06 9.76 -4.70 0.000 328 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE M NW NE Z E SW
AVE. OF END POINTS 0.06 0.09 0.11 0.12 0.12 0.15 0.17

NUMBER RMS MIN DRMS AVE DRMS QUALITY
13 0.13 0.05 0.12 0

-----END-----END-----END-----END-----

-----BEGIN-----BEGIN-----
33/11/12 2/42 83/11/12 2/46

HORIZONTAL SE = 0.73 SE = 1.33 VERTICAL SE = 2.22 QUALITY = A
AZ = -86. AZ = 4.

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	ND	D3	GAP	M	RMS	ERM	ERZ	Q	SQD	AOJ	IN	MR	AVR	AAR	NM	AVIM	SOIM	NF	AVFM	SOFM		
831112	286	38.20	43N56.75	113466.84	11.62	2.87	31	12	177	1	0.16	1.3	2.2	C	81C	0.37	10	56	0.00	0.11	0	0.0	0	0	10	2.9	0.3
3 ITERATIONS TOTAL																											
SE OF ORIG = 0.131																											

[illegible]

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	2	NE	SW	N	SE	W	E
AVE. OF 20 POINTS	0.27	0.40	0.41	0.41	0.43	0.60	0.68

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
31	0.16	0.26	0.47			8

83/11/12 3/50 BEGIN-----BEGIN-----83/11/12 3/50

HORIZONTAL SE = 1.94 SE = 0.61 VERTICAL SE = 2.89 QUALITY = C
AZ = -84. AZ = 6.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AIR NM AVXM SODM NF AVFM SDFM
831112 350 32.43 44N32.54 113M56.65 3.77 2.54 23 33 287 1 0.21 8.6 2.9 0 DID 0.24 10 46 0.00 0.19 0 0.0 0.0 10 2.5 0.4
SE OF DRIC = 0.772 8 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYN DIST AZM AIM PSEC PRMKTCDR=0-TTDB-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX FR XMAG R PMP FMAG
01 17.0 209 100 35.44EPO4 3.01 3.34 -0.33 0.000 39.69 7.26 5.05 1.42 0.000 329 40 2.43
MIR 19.0 221 99 36.20 P 0 3.77 3.54 0.23 1.235 0.00-32.43 6.20-38.62 0.000 329 3
CGI 27.4 159 96 36.76 P 2 4.33 5.03 -0.70M0.000 0.00-32.43 0.80-41.23 0.000 329 33 2.33
017 30.4 206 96 37.95EPO 5.52 5.57 -0.04 1.235 0.00-32.43 10.41-42.04 0.000 329 3
NMSI 32.5 191 95 38.20 P+1 5.77 5.95 -0.10 0.695 42.11 9.68 10.65 -0.97 0.000 329 3
BWF 33.3 192 95 38.33 P 5.90 6.00 -0.18 1.235 0.00-32.43 10.77-43.20 0.000 329 3
MSUI 33.7 178 95 39.26 P 6.57 6.15 0.42 0.077 42.24 9.01 11.02 -2.01 0.000 329 67 2.93
WSUI 36.0 179 95 39.43 P+2 6.03 6.57 0.26 1.235 0.00-32.43 12.64-45.07 0.000 329 42 2.53
DSPI 37.0 166 94 39.43 P+2 7.00 6.75 -0.07 1.235 0.00-32.43 13.53-46.26 0.000 329 52 2.73
04 39.2 169 94 39.49IP 7.06 7.13 0.14 1.235 46.69 14.26 16.68 -0.42 0.000 329 3
016 39.5 181 94 39.76IP 7.33 7.19 0.15 1.235 45.49 13.06 16.75 -1.69 0.000 329 3
ANPI 39.7 187 94 39.29 P 0 6.06 7.22 0.18 1.235 0.00-32.43 16.70-47.21 0.000 329 51 2.83
M-2 42.5 172 94 40.44 P 0 8.01 7.73 0.17 -0.20 1.235 40.19 15.76 16.49 -1.25 0.000 329 3
015 45.3 207 65 40.42IPD 7.99 0.19 0.15 1.235 0.00-32.43 17.87-50.30 0.000 329 3
MBAI 46.6 170 65 40.97 PCO 0.54 8.39 -0.81M0.000 0.00-32.43 17.95-50.30 0.000 329 3
LSGS 46.0 157 65 40.05 P+2 7.62 0.43 -0.31 0.309 51.50 19.07 19.29 -0.22 0.000 329 49 2.83
RCI 46.9 213 65 40.57 P 2 0.14 8.45 0.01 1.235 50.50 10.07 19.49 -1.42 0.000 329 60 2.93
B13 51.0 100 65 41.53EPC 9.12 9.11 0.73M0.000 0.00-32.43 20.65 -0.56 0.000 329 36 2.53
M-1 52.9 173 65 42.08 P+2 10.45 9.42 0.30 -0.23 0.309 52.51 20.08 20.65 -0.56 0.000 329 11 1.53
LCRI 57.0 164 65 42.47 PCO 10.04 10.21 -0.17 1.235 0.00-32.43 22.27-54.70 0.000 329 3
0RPI 58.1 181 65 42.45 P-2 10.02 10.26 -0.23 0.309 50.50 10.07 19.49 -1.42 0.000 329 3
0RCI 62.8 100 65 43.20 P-2 10.77 11.03 -0.25 0.309 52.51 20.08 20.65 -0.56 0.000 329 3
012 63.3 100 65 43.84IP 11.61 11.10 0.31 1.235 0.00-32.43 22.27-54.70 0.000 329 3
05 63.5 159 65 43.29EPC 10.86 11.16 -0.28 1.235 50.50 10.07 19.49 -1.42 0.000 329 3
011 67.6 171 65 44.46EPC 12.03 11.80 0.23 1.235 52.51 20.08 20.65 -0.56 0.000 329 3
06 70.4 156 65 44.94IP 12.51 12.25 0.26 1.235 0.00-32.43 22.27-54.70 0.000 329 3
MDCI 73.3 148 65 44.96 PCO 12.53 12.73 -0.19 1.235

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E SE SW Z N NE NW
AVE. OF END POINTS -0.01 -0.01 0.03 0.03 0.03 0.07 0.07

NUMBER RMS MIN DRMS AVE DRMS QUALITY
21 0.21 -0.04 0.03 D

33/11/12 5/54 BEGIN BEGIN BEGIN 83/11/12 5/54

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	MD	D3	GAP	M	RMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	MM	AVXM	SDXM	MF	AVFM	SDFM	
831112	554	5.12	44N17.29	114W	5.90	8.00	2.50	30	7	80	1	0.12	0.6	1.2	A	0.18	10	53	0.00	0.09	0	0.0	0.0	10	2.5	0.3
SE OF DRIC = 0.037																										
3 ITERATIONS TOTAL																										
(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----																										
STN	DIST	AZM	AIN	PSEC	PRMK	TCOR	D-TTDB	TTICAL	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG		
317	1.5	311	168	6.571PO			1.45	1.47		-0.02	1.010												332	36	2.33	
3503	5.6	87	141	6.93 PD			1.81	1.76		-0.05	1.010												332	3		
4WF	6.9	129	134	6.95 P			1.83	1.91		-0.08	1.010												332	3		
4WSI	7.2	121	132	7.10 P00			1.98	1.95		-0.04	1.010												332	3		
d1	13.2	15	111	7.861PC			2.74	2.77		-0.03	1.010												332	33	2.33	
ANP1	13.3	147	111	7.84 P00			2.72	2.79		-0.07	1.010												332	3		
MIR	14.0	359	109	8.20 P00			3.08	2.90		-0.19	1.010												332	3		
MSUI	14.4	112	106	8.10 P			2.98	2.95		-0.04	1.010												332	3		
d15	14.7	214	107	8.201PC			3.08	3.00		-0.09	1.010												332	59	2.83	
4SUI	14.9	122	107	8.13 PD			3.01	3.03		-0.01	1.010												332	3		
d16	16.0	134	104	8.401PD			3.28	3.21		-0.07	1.010												332	43	2.53	
RCI	17.5	231	102	8.58 PC0			3.46	3.44		-0.03	1.010												332	3		
CGI	22.2	83	97	9.26 PC0			4.14	4.19		-0.05	1.010												332	3		
d4	22.4	117	97	9.291PC			4.17	4.23		-0.05	1.010												332	60	2.83	
DSPI	22.6	110	96	9.32 PC0			4.20	4.27		-0.06	1.010												332	3		
M-2	22.9	127	96	9.464 P00			4.52	4.50	0.17	-0.05	1.010												332	3		
d13	23.0	166	96	9.411PC			4.29	4.33		-0.04	1.010												332	47	2.63	
GCI	25.3	43	95	9.40 PC0			4.48	4.70		-0.21	1.010												332	3		
4BAI	26.9	131	94	10.36 P00			5.24	4.95	0.30	-0.29	1.010												332	3		
M-1	30.7	142	93	11.18 P00			6.06	5.57		-0.19	1.010												332	3		
4RPI	32.0	159	93	10.80 PC0			5.68	5.79		-0.10	1.010												332	3		
LSGS	34.1	116	93	11.23 P00			6.11	6.13		-0.01	1.010												332	3		
4RCI	34.2	174	93	11.25 P00			6.13	6.13		-0.00	1.010												332	3		
d12	34.5	175	93	11.191PC			6.07	6.19		-0.11	1.010												332	45	2.63	
LCRI	39.2	134	92	12.17 P			7.05	6.94		-0.11	1.010												332	3		
d11	44.9	149	92	13.02EP			7.90	7.87		-0.03	1.010												332	39	2.53	
d5	46.9	132	92	13.371PO			8.25	8.19		-0.07	1.010												332	58	2.93	
d6	54.9	131	91	14.54EP			9.52	9.49		-0.03	1.010												332	15	1.73	
4DCI	61.3	124	91	15.34 PC0			10.22	10.53		-0.31	1.010												332	3		

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NW	SW	NE	E	SE	N
AVE. OF END POINTS	0.29	0.47	0.62	0.65	0.65	0.66	0.75
NUMBER	30						
RMS	0.12						
MIN ORMS	0.31						
AVE ORMS	0.61						
QUALITY	A						

END END END END END END END

5/25

DATA --)
FMP FMAG

QUALITY EVALUATION

	2	SW	ME	NW	E	N	SE
DIAGONALS IN ORDER OF STRENGTH	0.56	0.73	0.83	0.86	0.90	0.98	1.00
AVE. OF END POINTS							

NUMBER	RMS	MIN	ORMS	AVE	ORMS	QUALITY	A
12	0.03		0.58		0.86		

END
END
END
END

83/11/12 11/23 BEGIN BEGIN BEGIN 83/11/12 11/23

HORIZONTAL SE = 0.52 SE = 0.73 VERTICAL SE = 0.77
AZ = -41. AZ = -131. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVIM SOXM NF AVFM SOFM
831112 1123 42.56 44N10.59 113W55.56 6.31 2.43 25 5 51 1 0.15 0.7 0.8 8 0.1A 0.12 10 48 0.00 0.12 0 0.0 0.0 10 2.4 0.4
SE OF ORIG = 0.038 7 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA (---)
SPN DIST AZM AIN PSEC PRMK+TCOR-0-TT08-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRNK TT08 TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 2.6 297 157 43.81EPC 1.25 1.25 0.00 1.120 0.00-42.56 2.52-45.37 0.000 48 2.5
M-2 4.6 109 143 46.23 P00 1.67 1.64 0.17 0.07 1.120 0.00-42.56 2.52-45.37 0.000
MSUI 6.7 347 142 46.10 P0 1.54 1.45 0.10 1.120 0.00-42.56 2.52-45.37 0.000
ANPI 6.5 281 133 43.87 P 0 1.31 1.67 -0.35 1.120 0.00-42.56 2.92-45.47 0.000
84 6.6 70 133 46.02IP0 1.46 1.67 -0.21 1.120 0.00-42.56 2.92-45.47 0.000
MSUI 7.0 356 131 42.99 P 0 0.43 1.73 -1.30M0.000 0.00-42.56 3.03-45.58 0.000
MRAI 8.3 129 126 44.76 P00 2.20 1.91 0.29 1.120 0.00-42.56 3.35-45.91 0.000
OSPI 8.9 58 124 45.28 P-1 2.72 1.99 0.73M0.000 47.37 4.81 3.49 1.32 0.000
MSUI 11.5 319 117 46.99 P02 2.43 2.39 0.04 0.280 0.00-42.56 4.19-46.74 0.000
8MF 11.6 314 117 46.89 P 2.33 2.42 -0.08 1.120 47.13 4.57 4.59 -0.02 0.000
813 12.9 220 114 45.27IPC 2.71 2.62 0.09 1.120 0.00-42.56 4.60-47.88 0.000
M-1 12.9 157 114 45.56 PC0 3.00 2.63 0.08 1.120 47.85 5.29 5.83 -0.54 0.000
LGS 17.1 98 109 46.01 P00 3.45 3.33 0.12 1.120 0.00-42.56 5.84-48.40 0.000
CGI 17.2 29 109 45.81 P 2 3.25 3.34 -0.08 0.280 47.24 4.68 5.95 -1.27 0.000
HPI 17.5 187 108 45.84 PC0 3.28 3.40 -0.12 1.120 46.53 3.97 6.70 -2.73 0.000
817 20.1 312 106 44.33IP 4 1.77 3.83 -0.05 0.000 0.00-42.56 6.89-49.45 0.000
LCRI 20.7 136 105 46.38 P 0 3.82 3.94 -0.11 1.120 49.00 6.44 7.85 -1.40 0.000
815 22.0 271 105 46.76EPC 4.20 4.16 0.05 1.120 0.00-42.56 8.91-51.47 0.000
8RCI 23.9 205 103 47.00 P02 4.44 4.48 -0.04 0.280 53.43 10.87 8.98 1.89 0.000
812 24.5 206 103 47.32EP 4.76 4.59 0.18 1.120 0.00-42.56 9.62-52.18 0.000
81 27.1 338 65 47.60IP0 5.04 5.04 0.00 1.120 0.00-42.56 9.97-52.53 0.000
RCI 27.4 273 65 47.49 P 1 4.93 5.09 -0.16 0.630 53.56 10.98 11.44 -0.46 0.000
811 27.7 160 65 47.68EPC 5.12 5.13 -0.01 1.120 0.00-42.56 13.35-55.90 0.000
85 28.3 131 65 47.70IP0 5.14 5.23 -0.09 1.120 0.00-42.56 13.35-55.90 0.000
MIR 29.9 332 65 48.40 PC0 5.84 5.50 0.35 1.120 0.00-42.56 13.35-55.90 0.000
GCI 31.2 6 65 48.20 PC0 5.64 5.70 -0.05 1.120 0.00-42.56 13.35-55.90 0.000
86 36.4 130 65 49.00EP 6.44 6.34 -0.09 1.120 0.00-42.56 13.35-55.90 0.000
MDCI 43.1 120 65 50.09 P00 7.53 7.63 -0.09 1.120 0.00-42.56 13.35-55.90 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW E N Z NE SW SE
AVE. OF END POINTS 0.00 0.01 0.08 0.08 0.11 0.11 0.12

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.15 -0.03 0.07 0

END END END END END END END

33/11/12 8/50 BEGIN-----BEGIN-----83/11/12 8/50

HORIZONTAL SE = 0.37 AZ = -20. VERTICAL SE = 1.03 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
831112 850 57.28 44N12.80 114W 1.91 11.12 2.77 12 14 102 1 0.06 0.6 1.0 8 A18 2.05 10 17 0.00 0.05 0 0.0 0.0 4 2.8 0.1
SE OF ORIG = 0.054
3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AIM AIM PSEC PRMK+TCOR-D TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TYOR TTCAL S-RES S-WT AMX PR AMAG R FMP FMAG
816 6.8 116 146 59.601P 2.32 2.29 0.03 1.053 2.07 4.79 4.86 -0.08 0.737 334 49 2.63 3
817 11.3 325 130 0.071P 2.79 2.78 0.01 1.053 2.75 5.47 5.48 -0.01 0.737 334 3
813 14.0 179 123 0.501P 3.22 3.13 0.09 1.053 2.77 5.49 5.65 -0.16 0.000 334 51 2.73 3
815 14.1 254 123 0.481P 3.20 3.13 -0.02 1.053 4.84 7.56 7.27 0.29 0.000 334 64 2.93 3
84 14.7 97 122 0.491P 3.21 3.23 0.02 1.053 5.83 8.55 8.62 -0.08 0.000 334 3
81 21.1 355 111 1.461P 4.18 4.15 -0.13 1.053 9.04 11.76 11.76 0.00 0.000 334 63 2.93 3
812 26.2 185 106 2.081P 4.80 4.93 -0.06 1.053 11.04 13.76 14.03 -0.27 0.000 334 3
811 35.0 149 101 3.66EPC 6.38 6.34 0.02 1.053
85 37.4 128 100 3.941P 6.66 6.72
86 45.5 127 97 5.32EP 8.04 8.02

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE E NW M SE
AVE. OF END POINTS 0.41 0.62 0.69 0.82 0.83 1.05 1.13

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.06 0.47 0.83 A

83/11/12 10/51 BEGIN-----BEGIN-----83/11/12 10/51

HORIZONTAL SE = 0.52 AZ = -36. VERTICAL SE = 1.49 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM MF AVFM SDFM
831112 1851 0.10 44N 9.78 113W59.58 9.92 2.17 10 12 77 1 0.07 0.7 1.5 A A1A 0.44 10 13 0.00 0.06 0 0.0 0.0 10 2.2 0.3
SE OF ORIG = 0.061
3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AIM AIM PSEC PRMK+TCOR-D TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TYOR TTCAL S-RES S-WT AMX PR AMAG R FMP FMAG
816 4.0 49 156 1.951P 1.85 1.90 -0.05 1.000 6.01 5.91 7.17 -1.26 0.000 335 31 2.23 3
813 8.9 199 134 2.581P 2.48 2.36 0.12 1.000 7.31 7.21 8.80 -1.59 0.000 335 29 2.23 3
84 12.1 72 124 2.861P 2.76 2.76 -0.01 1.000 9.07 9.77 9.24 0.53 0.000 335 41 2.53 3
915 16.7 276 114 3.461P 3.36 3.42 -0.06 1.000 335 38 2.43 3
817 17.7 327 112 3.591P 3.49 3.57 -0.08 1.000 335 26 2.13 3
812 21.2 195 107 4.211P 4.11 4.10 0.01 1.000 335 32 2.33 3
91 27.1 350 102 5.241P 5.14 5.03 0.11 1.000 335 19 1.93 3
811 28.6 149 101 5.32EPC 5.22 5.28 -0.06 1.000 335 28 2.23 3
85 31.7 123 99 5.931P 5.83 5.76 0.06 1.000 335 44 2.63 3
86 39.8 123 96 7.12EP 7.02 7.06 -0.04 1.000 335 11 1.43 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE E NW E N SE
AVE. OF END POINTS 0.30 0.62 0.65 0.82 0.87 0.95 0.97

298

83/11/12 12/39 BEGIN-----BEGIN-----83/11/12 12/39

HORIZONTAL SE = 0.93 VERTICAL SE = 1.99 QUALITY = A
AZ = -26. AZ = -116.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831112 1239 37.14 44N13.98 114W 4.77 8.18 2.49 12 11 102 1 0.11 0.9 2.0 8 818 0.09 10 18 0.00 0.08 0 0.0 0.0 10 2.5 0.3
SE OF ORIG = 0.079 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-0-TT08-TTCAL-DELT-EOLV= P-RES P-MI TMIC SSEC SRMK TT08 TTICAL S-RES S-MT AMX PR RMAG R FMR FMAG
817 7.6 340 131 39.111PD 1.97 2.01 -0.04 1.053 40.76 3.62 3.52 0.10 0.000 337 34 2.53
316 11.2 117 118 39.551PD 2.41 2.48 -0.07 1.053 41.65 4.51 4.34 0.17 0.737 337 44 2.53
815 11.5 238 117 39.771PC 2.63 2.52 0.11 1.053 41.79 4.65 4.41 0.25 0.000 337 49 2.63
813 16.7 166 105 40.481PC 3.34 3.32 0.02 1.053 42.71 5.57 5.82 -0.24 0.737 337 49 2.63
84 18.9 102 101 40.661PD 3.52 3.66 -0.14 1.053 43.31 6.17 6.41 -0.24 0.000 337 59 2.83
81 19.0 6 101 40.781PC 3.64 3.68 -0.04 1.053 42.98 5.84 6.44 -0.60 0.000 337 33 2.33
812 28.3 177 95 42.301PC 5.16 5.18 -0.02 1.053 45.83 8.69 9.07 -0.37 0.000 337 48 2.63
811 38.9 146 93 44.061PD 6.92 6.90 0.02 1.053 52.59 15.45 15.19 0.26 0.000 337 43 2.63
85 41.8 127 92 44.531PC 7.39 7.37 0.02 1.053 337 60 2.93
86 49.9 127 92 45.991P 8.85 8.68 0.17 1.053 337 14 1.73

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SW SE NE Z N E
AVE. OF END POINTS 0.04 0.06 0.11 0.13 0.17 0.17 0.20

NUMBER 5 RMS MIN DRMS AVE DRMS QUALITY
0.11 -0.04 0.13 0

83/11/12 17/31 BEGIN-----BEGIN-----83/11/12 17/31

HORIZONTAL SE = 0.69 SE = 1.14 VERTICAL SE = 2.06
AZ = -8. AZ = -98. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 33 GAP M RMS ERM ERZ Q SQD AOJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831112 1731 23.24 44N14.00 11W 3.93 7.72 2.12 14 11 92 1 0.14 1.1 2.1 8 818 1.25 10 25 0.00 0.12 0 0.0 0.0 10 2.1 0.2
SE OF ORIG = 0.079 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-HAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PHK+TCOR-O-TTOD-TTCAL-DELA-EOLY= P-RES P-WT THIC SSEC SMK TTOD TTCAL S-RES S-WT AMX PR MMAG R FMP FMAG
MWSI 4.3 56 147 24.731PD 1.49 1.60 -0.11 1.045 27.10 3.86 3.52 0.34 0.731 338 25 2.03
817 8.0 332 127 25.101PC 1.86 2.01 -0.15 1.045 27.02 3.78 4.16 -0.38 0.000 338 32 2.23
MSUI 10.7 86 117 25.601PD 2.36 2.38 -0.02 1.045 27.80 4.56 4.62 -0.06 0.000 338 25 2.03
915 12.4 240 111 25.801PC 2.56 2.64 -0.08 1.045 28.80 5.56 5.72 -0.16 0.731 338 29 2.23
913 16.5 170 101 26.461PC 3.22 3.27 -0.05 1.045 29.43 6.19 6.36 -0.17 0.000 338 22 1.93
94 17.8 103 99 25.691P 4 2.45 3.48 -1.03 0.000 29.41 6.17 6.39 -0.22 0.000 338 19 1.83
OSPI 18.7 95 98 26.131PC 4 2.89 3.63 -0.02 1.045 30.53 7.29 6.81 0.48 0.000 338 45 2.53
81 18.8 3 98 26.871PD 3.63 3.65 0.10 1.045 30.25 7.01 7.01 0.00 0.000 338 29 2.23
MIR 20.3 352 96 27.23EPC 3.99 3.89 0.10 1.045 32.14 8.90 9.05 -0.15 0.000 338 3
MBAI 21.1 123 96 27.35EPC 4.11 4.01 0.08 1.045 0.25 1.045 338 25 2.13
812 28.3 179 93 28.491PC 5.25 5.17 -0.25 1.045 0.12 1.045 338 29 2.23
GCI 28.7 31 93 28.22EPC 4.98 5.23 0.15 1.045 0.33 0.000 338 3
LSGS 29.4 107 93 28.75EPC 5.51 5.36 0.12 1.045 0.56 0.000 338
811 38.3 148 92 30.16EPC 6.92 6.80 0.33 0.000
85 40.9 128 92 30.791P 4 7.55 7.22
86 49.0 127 91 32.34EP 4 9.10 8.54

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH I SW E NE NW SE M
AVE. OF END POINTS 0.25 0.68 0.69 0.72 0.80 1.01 1.17

NUMBER RMS MIN DRMS AVE DRMS QUALITY
14 0.14 0.36 0.81 A

-----END-----END-----END-----END-----

83/11/12 22/32 BEGIN BEGIN 83/11/12 22/32

HORIZONTAL SE = 0.49 SE = 1.36 VERTICAL
AZ = -37. AZ = -127. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVPM SDFM
831112 2232 27.49 44N10.31 114W 1.20 11.67 2.68 30 8 84 1 0.14 0.8 1.4 A AJA 0.96 10 53 0.00 0.12 0 0.0 0.0 5 2.7 0.2
SE DF DRIG = 0.072 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-DTTOR-TTICAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
ANPI 2.1 32 169 29.67 P 0 2.18 2.08 -0.10 1.268 0.00-27.49 3.63-31.12 0.000 341 3
816 5.5 72 153 29.571PD 2.08 2.25 -0.18 1.268 31.62 4.13 3.94 0.18 0.000 341 65 2.93
4501 8.3 52 142 30.04 PD 2.55 2.50 0.05 1.268 31.71 4.22 4.44 -0.23 0.000 341 3
84F 8.6 355 160 29.98 PD 2.49 2.54 -0.05 1.268 0.00-27.49 4.55-32.04 0.000 341 3
MWS1 9.2 360 138 30.13 PD 2.64 2.60 0.04 1.268 32.09 4.60 4.59 0.00 0.000 341 35 2.33
813 9.4 184 138 30.191PC 2.70 2.62 0.07 1.268 0.00-27.49 4.78-32.25 0.000 341 3
MSU1 10.3 43 135 30.34 PD 2.85 2.72 0.13 1.268 0.00-27.49 5.09-32.89 0.000 341 3
M-2 11.9 95 130 30.70 PD 3.21 2.91 0.17 0.13 1.268 33.03 5.54 5.53 0.01 0.888 341 3
45U3 13.2 357 127 30.65 PD 3.16 3.07 -0.09 1.268 32.73 5.24 5.67 -0.43 0.000 341 62 2.83
84 14.0 79 126 30.581PD 3.09 3.16 -0.07 1.268 0.00-27.49 5.74-33.23 0.000 341 3
815 14.5 273 124 30.681PD 3.19 3.24 -0.05 1.268 33.24 5.75 5.98 -0.23 0.888 341 51 2.73
48A1 14.8 109 124 31.01 PC1 3.52 3.48 0.24 0.714 0.00-27.49 6.01-33.51 0.000 341 3
817 15.8 332 122 30.741PD 3.25 3.42 -0.17 1.268 33.72 6.23 6.46 -0.24 0.000 341 3
OSPI 15.9 71 121 31.02 P-2 3.53 3.44 0.09 0.317 0.00-27.49 7.02-34.51 0.000 341 3
M-1 16.9 132 119 31.30 PC0 3.81 3.58 -0.07 1.268 59.93 32.44 7.48 24.95 0.000 341 3
8RPI 17.8 162 118 31.17 P-2 3.68 3.69 0.02 0.317 0.00-27.49 7.36-34.85 0.000 341 3
RCI 20.0 276 115 31.19 P 3 3.70 4.01 -0.31 0.079 0.00-27.49 7.61-35.10 0.000 341 50 2.73
8RC1 21.2 187 113 31.75 PC3 4.26 4.20 0.05 0.079 0.00-27.49 8.67-36.17 0.000 341 3
812 21.7 189 112 31.881PC 4.39 4.28 0.11 1.268 0.00-27.49 9.10-36.59 0.000 341 3
CG1 22.2 45 112 32.06 P 2 4.57 4.35 0.22 0.317 59.94 32.45 9.89 22.56 0.000 341 3
81 25.8 354 108 32.311PC 4.82 4.90 -0.08 1.268 0.00-27.49 10.63-38.12 0.000 341 3
LCRI 26.2 124 108 32.18 P 0 4.69 4.96 0.27 1.268 37.89 10.60 10.62 -0.42 0.000 341 3
MIR 27.7 346 106 33.00 PD 5.51 5.20 0.31 1.268 41.24 13.75 13.09 0.65 0.000 341 3
811 30.6 147 104 33.241P 5.75 5.65 0.10 1.268 0.00-27.49 15.16-42.66 0.000 341 3
CCR 33.3 19 103 33.50 P 2 6.01 6.07 -0.07 0.317 0.00-27.49 15.16-42.66 0.000 341 3
85 34.0 122 102 33.541P 6.05 6.18 -0.14 1.268 0.00-27.49 15.16-42.66 0.000 341 3
86 42.1 123 99 35.01EPD 7.52 7.48 0.03 1.268 0.00-27.49 15.16-42.66 0.000 341 3
MOC1 49.5 115 97 36.01 P-1 8.52 8.66 -0.15 0.714 0.00-27.49 15.16-42.66 0.000 341 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW N SE
AVE. OF END POINTS 0.31 0.45 0.55 0.70 0.73 0.84 0.87

NUMBER RMS MIN DRMS AVE DRMS QUALITY
30 0.14 0.30 0.66 A

END END END END END END

83/11/12 22/15 BEGIN 83/11/12 22/15

HORIZONTAL SE = 0.35 SE = 0.43 VERTICAL SE = 0.57
AZ = -28. AZ = -118. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831112 2215 25.03 44N 9.92 113457.32 11.31 2.34 12 10 07 1 0.05 0.4 0.6 A AIA 0.25 10 18 0.00 0.05 0 0.0 0.0 10 2.3 0.3
SE OF ORIG = 0.035 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
816 2.4 0 167 27.021PD 1.99 2.03 -0.03 1.053 28.52 3.49 3.55 -0.05 0.737 342 38 2.43
84 9.2 68 137 27.611PC 2.58 2.56 0.03 1.053 29.33 4.30 4.47 -0.17 0.000 342 42 2.53
813 10.5 214 133 27.761PD 2.73 2.70 0.04 1.053 29.81 4.78 4.72 0.06 0.737 342 35 2.53
817 19.3 319 114 29.021PD 3.99 3.89 0.11 1.053 32.16 7.13 6.89 0.24 0.000 342 42 2.53
815 19.7 274 114 20.911PD 3.88 3.94 -0.05 1.053 32.33 2.33 342 33 2.33
812 22.4 202 110 29.331PD 4.30 4.36 -0.05 1.053 34.34 9.31 8.99 0.33 0.000 342 35 2.43
811 27.4 155 106 30.141PD 5.11 5.14 -0.02 1.053 33.96 8.93 9.01 -0.08 0.000 342 40 2.53
81 27.5 363 105 30.131PC 5.10 5.15 0.05 1.053 35.07 10.04 9.51 0.54 0.000 342 42 2.53
85 29.3 127 104 30.511PC 5.48 5.43 -0.03 1.053 36.34 11.31 11.77 -0.45 0.000 342 12 1.53
86 37.4 126 100 31.721PD 6.69 6.72 -0.03 1.053

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE NW E N SE
AVE. OF END POINTS 0.60 0.70 0.81 0.83 0.68 0.95 0.97

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.05 0.57 0.84 A

83/11/12 22/32 BEGIN 83/11/12 22/32

HORIZONTAL SE = 0.49 SE = 1.12 VERTICAL SE = 1.60
AZ = -92. AZ = -2. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR NM AVXM SOXM MF AVFM SOFM
831112 2232 12.36 43N56.24 113444.36 7.47 1.38 11 13 199 1 0.06 1.1 1.6 C AID 2.33 10 14 0.00 0.04 0 0.0 0.0 4 1.4 0.2
SE OF ORIG = 0.083 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTDB-TTCAL-DELY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
811 5.6 275 138 14.041P 1.68 1.70 -0.03 1.028 15.31 2.95 2.98 -0.03 0.000 340 3
85 10.1 39 117 14.671PD 2.31 2.27 0.04 1.028 340 3
86 13.3 76 107 15.121EP 2.76 2.76 0.00 1.028 340 10 1.23
812 26.2 280 92 17.191PC 4.83 4.84 -0.01 1.028 340 15 1.63
813 28.6 306 92 17.621PC 5.26 5.22 0.03 1.028 340 3
84 30.1 343 92 17.691PC 5.33 5.47 -0.15 1.028 340 3
816 32.7 328 91 18.341EP 5.98 5.89 0.08 1.028 340 3
815 45.6 306 91 20.331PC 7.97 7.99 -0.02 1.028 340 3
817 49.9 323 91 21.121EP 8.76 8.69 0.07 1.028 340 9 1.33
81 57.5 334 91 22.261PD 9.90 9.92 -0.02 1.028 340 10 1.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z N NE SE SW NW E
AVE. OF END POINTS 0.31 0.48 0.52 0.56 0.65 0.82 0.94

83/11/13 4/20 BEGIN-----BEGIN-----83/11/13 4/20

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SOMM NF AVPM SOFM
831113 420 23.52 44N14.67 114W 2.89 6.60 2.31 10 14 110 1 0.07 0.7 0.9 8 A18 0.33 10 20 0.00 0.05 0 0.0 0.0 10 2.3 0.3
SE OF ORIG = 0.040 4 ITERATIONS TOTAL

SE = 0.57 SE = 0.66 VERTICAL
AZ = -35. AZ = -125. SE = 0.87 QUALITY = A

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-D=TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTCAL S-RES S-WT AMX PR X MAG R FMP F MAG
817 7.8 319 129 25.361PO 1.82 1.67 -0.05 1.000 26.42 2.90 3.27 -0.37 0.000 344 34 2.33
816 9.8 131 123 25.701PO 2.18 2.16 0.02 1.000 28.27 4.75 3.78 0.97 0.000 344 53 2.73
815 14.3 239 113 26.421PC 2.90 2.87 0.03 1.000 28.24 4.72 5.02 -0.30 0.000 344 37 2.43
84 16.8 108 110 26.761PC 3.22 3.29 -0.07 1.000 31.43 7.91 5.76 2.15 0.000 344 54 2.73
813 17.6 175 109 26.971PC 3.45 3.42 0.03 1.000 30.19 6.67 5.98 0.63 0.000 344 30 2.23
81 17.6 358 109 26.991PC 3.47 3.42 0.05 1.000 31.55 8.03 5.99 2.04 0.000 344 44 2.53
912 29.5 182 65 28.811PC 5.29 5.41 -0.12 1.000 33.30 9.78 9.47 0.31 0.000 344 31 2.33
911 38.7 150 65 30.561PC 7.02 6.90 0.12 1.000 34.45 10.93 12.07 -1.14 0.000 344 29 2.23
85 40.6 130 65 30.721PC 7.20 7.21 -0.01 1.000 33.49 9.97 12.62 -2.65 0.000 344 38 2.53
86 48.7 129 65 32.046P 8.52 8.52 0.00 1.000 39.19 15.67 16.91 0.76 0.000 344 11 1.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW NM ME E Z M SE
AVE. OF END POINTS 0.04 0.11 0.12 0.16 0.17 0.21 0.27

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.07 0.01 0.16 0

-----END-----END-----END-----

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03/11/12 23/5 -----BEGIN-----BEGIN-----03/11/12 23/5

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HORIZONTAL	SE =	0.52	SE =	0.60	VERTICAL
	AZ =	-69.	AZ =	21.	SE =
					1.00
					QUALITY = A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	CAP	M	RMS	ERM	Q	SQD	ADJ	IN	NR	AVR	AAR	NN	AVXM	SDXM	NF	AVFM	SDFM	
831112	23 5 48.00	44N	13.99	114W	2.90	8.24	2.56	29	6	69	1	0.14	0.6	1.0	A	0.21	10	49	0.00	0.11	0	0.0	0	0	10
3 ITERATIONS TOTAL																									
SE OF ORIC = 0.050																									

(- STATION DATA -)		P-WAVE TRAVEL-TIME DATA AND DELAYS		P-RES		P-WT		THIC		S-WAVE TRAVEL-TIME DATA		S-RES		S-WT		AMX PR		XMAX R		FMP FMAX	
DIST	AZM	AIM	PSEC	PRMK+TCOR	OUTTOR	TTCL	DELAY	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TYOB	TTCL	S-RES	S-WT	AMX PR	XMAX R	FMP FMAX	
2.3	39	163	49.51	PO	1.51	1.54			-0.03	1.060	50.80	2.80	2.70	0.10	0.742			343		3	
3.3	43	156	49.59	P00	1.59	1.60			-0.01	1.060	0.00	-48.00	2.00	-50.80	0.000			343		3	
6.0	146	139	49.92	P 0	1.92	1.84			0.07	1.060	0.00	-48.00	3.22	-51.23	0.000			343		3	
8.8	324	127	50.01	P0	2.01	2.16			-0.15	1.060	52.16	4.16	3.77	0.39	0.000			343	47	2.63	
8.9	101	127	50.28	PC	2.28	2.17			0.11	1.060	51.12	3.12	3.83	-0.71	0.000			343		3	
9.0	125	126	50.12	P	2.12	2.19			-0.07	1.060	0.00	-48.00	3.92	-51.92	0.000			343	50	2.63	
9.4	86	125	50.35	P	2.35	2.24			0.11	1.060	53.03	5.03	4.99	0.04	0.742			343		3	
13.6	243	112	50.33	PC	2.83	2.95			-0.02	1.060	0.00	-48.00	5.63	-53.95	0.000			343	51	2.73	
16.2	119	106	51.30	P+0	3.30	3.42		0.17	-0.10	1.060	53.78	5.78	5.69	0.09	0.000			343		3	
16.3	174	106	51.35	PC	3.35	3.25			0.10	1.060	53.53	5.53	5.76	-0.23	0.742			343	52	2.73	
16.5	104	105	51.21	PC	3.21	3.29			-0.08	1.060	0.00	-48.00	6.01	-54.01	0.000			343	41	2.53	
17.4	95	104	51.40	PC0	3.40	3.43			-0.04	1.060	0.00	-48.00	6.23	-54.23	0.000			343		3	
18.3	255	102	51.49	PC0	3.49	3.57			-0.08	1.060	57.62	9.62	6.41	3.21	0.000			343	53	2.73	
18.8	359	102	51.42	PC	3.42	3.42			-0.25	1.060	0.00	-48.00	6.71	-54.71	0.000			343		3	
19.9	125	100	51.86	PC0	3.86	3.83			0.02	1.060	0.00	-48.00	6.75	-54.74	0.000			343		3	
20.0	64	100	51.66	PC0	3.66	3.85			-0.19	1.060	0.00	-48.00	6.83	-54.90	0.000			343		3	
20.6	348	100	52.20	P00	4.20	3.94			0.26	1.060	0.00	-48.00	7.63	-56.21	0.000			343		3	
23.4	141	97	52.75	PC0	4.75	4.39		0.30	0.06	1.060	0.00	-48.00	8.13	-56.13	0.000			343		3	
24.9	162	96	52.73	PC2	4.73	4.44			0.06	0.265	0.00	-48.00	8.95	-57.00	0.000			343		3	
27.9	181	95	52.95	P+0	4.95	5.11			-0.17	1.060	0.00	-48.00	8.99	-57.00	0.000			343	48	2.63	
28.0	28	95	53.40	PC0	5.40	5.14			0.26	1.060	0.00	-48.00	10.16	-58.16	0.000			343		3	
28.3	182	95	52.91	P	4.91	5.18			-0.28	1.060	0.00	-48.00	10.16	-58.16	0.000			343	45	2.63	
32.1	132	94	53.78	P00	5.78	5.81			-0.0												

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	SW	NE	NW	N	SE
Ave. of end points	0.37	0.64	0.68	0.69	0.81	0.84
						0.87

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
29	0.14	0.41	0.73			A

END
END
END
END

33/11/13 9/56 BEGIN 83/11/13 9/56

HORIZONTAL SE = 0.27 SE = 0.47 VERTICAL SE = 1.11 QUALITY = A
AZ = -41. AZ = -131.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM NF AVFM SDFM
831113 956 8.26 44N 113W52.53 9.92 2.07 12 16 95 1 0.05 0.5 1.1 B A1B 0.22 10 15 0.00 0.04 0 0.0 0.0 8 2.1 0.4
SE OF ORIG = 0.045 S ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK*TCOR-O-TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XMAX R FMP FMAG
011 12.4 154 123 11.041PD 2.78 2.80 -0.01 1.053 13.19 4.93 4.89 0.04 0.737 347 30 2.23
313 13.2 292 121 11.171PC 2.91 2.92 0.00 1.053 347 27 2.13
012 16.4 245 114 11.601PC 3.34 3.37 -0.02 1.053 347 31 2.23
34 17.3 7 113 11.761PD 3.50 3.50 0.00 1.053 14.35 6.09 6.14 -0.04 0.737 347 36 2.43
916 17.3 338 113 11.831PD 3.57 3.51 0.07 1.053 10.69 2.43 6.23 -3.79 0.000 347 27 2.13
35 17.6 102 112 11.761PD 3.50 3.56 -0.05 1.053 17.75 9.49 9.65 -0.15 0.000 347 40 2.53
06 25.3 110 103 13.021PC 4.76 4.75 0.02 1.053 21.84 13.58 13.13 0.45 0.000 347 8 1.13
015 30.1 300 100 13.741PD 5.48 5.51 -0.03 1.053 347 22 2.03
017 34.1 326 98 14.51EP 6.25 6.15 0.11 1.053 347 3
01 42.5 340 96 15.691PD 7.43 7.50 -0.07 1.053 347 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NE SE Z NW SW E
AVE. OF END POINTS 0.12 0.14 0.16 0.20 0.22 0.25 0.30

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.05 0.02 0.20 0

END END END END END

83/11/13 11/33 BEGIN-----BEGIN-----83/11/13 11/33

HORIZONTAL SE = 0.80 SE = 1.08 VERTICAL SE = 1.84
AZ = -37. AZ = -127. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD 10J IN MR AVR AAR NM AVXM SDXM NF AVFM SDFM
831113 1133 22.30 44N 8.92 113W55.36 5.43 2.17 14 10 66 1 0.16 1.1 1.8 8 81A 0.15 10 19 0.00 0.11 0 0.0 0.0 12 2.2 0.3
SE OF ORIG = 0.076 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PHK+TCOR-D-TTDB-TTCL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB YTCAL S-RES S-WT AMX PR XMAG R FMP FMAG
816 5.0 329 136 23.431PD 1.13 1.36 -0.23 1.022 24.65 2.35 2.38 -0.04 0.715 40 2.4
48A1 6.6 109 128 23.871PD 1.57 1.57 0.00 1.022 26.68 4.38 3.69 0.69 0.000 32 2.2
NSUI 10.1 356 116 24.59EPC 2.29 2.11 0.18 1.022 25.94 3.64 3.84 -0.21 0.000 30 2.2
QSPI 10.7 43 115 24.45EPC 2.15 2.20 -0.05 1.022 29.57 7.27 8.04 -0.77 0.000 30 2.2
813 10.9 231 115 24.881PD 2.58 2.24 0.34 1.022 28.79 6.49 9.73 -3.24 0.000 35 2.3
NMSI 14.2 326 109 25.151PD 2.85 2.78 0.07 1.022 29.57 7.27 8.04 -0.77 0.000 35 2.3
812 21.9 210 102 26.06EPC 3.76 4.10 -0.34 1.022 30 2.2
817 22.4 317 102 26.48EPC 4.18 4.20 -0.02 1.022 36 2.4
815 22.5 278 102 26.531PD 4.23 4.21 0.02 1.022 33 2.3
811 24.7 158 101 26.971PC 4.67 4.59 0.07 1.022 35 2.4
85 26.1 127 100 27.231PD 4.93 4.84 0.08 1.022 24 2.0
81 30.1 340 99 27.841PD 5.54 5.56 -0.02 1.022 9 1.2
MIR 32.8 334 65 29.11EPC 6.81 6.03 0.77M0.000
86 34.2 126 65 28.50EPC 6.20 6.26 -0.06 1.022

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NW SE SW Z NE E
AVE. OF END POINTS -0.02 0.04 0.05 0.07 0.07 0.08 0.11

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.16 -0.07 0.06 0

-----END-----END-----END-----END-----

-----BEGIN-----	-----BEGIN-----	-----BEGIN-----
83/11/13	10/13	83/11/13
10/13		10/13

HORIZONTAL	SE =	0.35	SE =	0.58	VERTICAL	SE =	1.79
	AZ =	-55.	AZ =	35.			QUALITY = A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	ND	D3	GAP	M	RMS	ERM	ERZ	Q	SQD	ADJ	IN	MR	AVR	AAR	MM	AVXM	SDXM	MF	AVFM	SDFM		
131113	1013	2.25	113452.67	9.11	2.32	17	13	94	1	0.09	0.6	1.8	8	0.51	10	24	0.00	0.07	0	0.0	0.0	13	2.3	0.3			
										SE OF 0.052																	
										4 ITERATIONS TOTAL																	

[illegible]

QUALITY EVALUATION

SE	Z	N	NE	E	SE	NW
0.07	0.13	0.15	0.15	0.17	0.17	0.19

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
11	0.09	0.05	0.15			D

END
END
END

```

-----BEGIN-----BEGIN-----BEGIN-----
33/11/13 13/20 83/11/13 13/20

```

HORIZONTAL	SE = 0.36	VERTICAL	SE = 0.65
AZ = 32.	AZ = -58.	QUALITY = A	

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	W	RMS	ERM	Q	SQD	ADJ	IN	NR	AVR	AAR	MM	AVXM	SDXM	NF	AVFM	SDFM	
1320	52-47	44N16-07	114W	6.69	8-07	2-56	12	15	143	1	0.05	0-6	0-9	8	AIC	0.06	10	13	0-00	0.04	0	0.0	0	0	9
SE OF ORIG = 0.053																									
4 ITERATIONS TOTAL																									

C- STATION DATA --		P-WAVE TRAVEL-TIME DATA AND DELAYS				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA									
STN	DIST	AIM	PSEC	PRMK+TCOR-0	TTCL+TTCL-DELAY=	P-RCS	P-WT	TMIC	SSEC	SRMK	TT0B	TTCL	S-RES	S-WT	AMX	PR	FMAG		
817	3.3	350	155	54.021PC	1.55	1.57			55.22	2.75	2.75	0.00	0.737				351	46	2.53
1315	12.3	216	114	55.161PC	2.69	2.64			57.08	4.61	4.62	0.00	0.737				351	51	2.63
1816	15.4	126	107	55.611PC	3.14	3.10											351	36	2.43
191	15.7	17	106	55.621PC	3.15	3.14											351	49	2.43
1813	21.1	162	98	56.671PC	4.00	4.02			59.77	7.30	5.50	1.00	0.000				351	43	2.53
84	22.4	111	97	56.631PC	4.16	4.24											351	52	2.73
812	32.4	173	93	58.211PC	5.74	5.84											351	40	2.53
311	43.6	146	92	60.161PC	7.69	7.65											351	40	2.53
85	46.2	129	92	60.641PC	8.17	8.08											351	43	2.63
86	54.3	128	92	61.851PC	9.38	9.29											351	46	3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	ME	NW	E	SE	N	SW	Z
Ave. of End Points	0.10	0.10	0.20	0.21	0.21	0.21	0.26

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
7	0.05		0.13		0.21	0

END
END
END

33/11/13 12/1 BEGIN BEGIN BEGIN 83/11/13 12/1

HORIZONTAL SE = 0.50 SE = 0.69 VERTICAL SE = 1.45
AZ = -37. AZ = -127. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVIM SORM MF AVPM SOFM
81113 12 1 16.95 44N 3.12 113M56.34 12.36 2.99 26 8 68 1 0.12 0.7 1.5 A AIA 0.68 10 45 0.00 0.09 0 0.0 0.0 10 3.0 0.3
SE OF ORIG = 0.080 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----)(---- MAGNITUDE DATA ----)
STM DIST AZM AIM PSEC PRMK+TCOR-Q-TT0B-TTICAL-DELAY-EDLY= P-RCS P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XRMAG R FMP FMAG
98P1 3.7 196 162 19.22 P00 2.27 2.25 0.02 1.096 20.42 3.47 3.94 -0.46 0.000 350 3
M-1 6.3 72 151 19.46 P00 2.51 2.42 0.30 -0.21 1.096 0.00-16.95 4.24-21.71 0.000 350 3
813 8.2 299 144 19.481PC 2.53 2.58 -0.05 1.096 22.33 5.38 4.52 0.87 0.000 350 74 3.03
98A1 11.4 41 134 20.00 P00 3.05 2.93 0.13 1.096 0.00-16.95 5.12-22.07 0.000 350 3
88C1 12.0 230 132 20.00 P00 3.05 3.00 0.06 1.096 0.00-16.95 5.25-22.19 0.000 350 3
812 12.7 230 131 20.121PC 3.17 3.00 0.09 1.096 23.27 6.32 5.39 0.93 0.000 350 71 3.03
M-2 13.5 24 129 20.39 P00 3.44 3.17 0.10 1.096 0.00-16.95 5.55-22.80 0.000 350 3
816 15.1 355 125 20.331PC 3.38 3.37 0.02 1.096 22.98 6.03 5.90 0.14 0.768 350 74 3.03
LC81 15.4 94 125 20.20 P 0 3.25 3.42 -0.17 1.096 0.00-16.95 5.99-22.94 0.000 350 3
AMPI 16.0 340 123 20.25 PC0 3.30 3.51 -0.21 1.096 0.00-16.95 6.15-23.09 0.000 350 3
811 16.1 140 123 20.531PC 3.60 3.52 0.09 1.096 23.05 6.10 6.15 -0.05 0.768 350 72 3.03
44 17.6 24 120 20.701PO 3.75 3.73 0.02 1.096 21.91 4.96 6.53 -1.56 0.000 350 98 3.33
NSUI 18.4 360 119 20.78 PC 3.83 3.85 -0.01 1.096 0.00-16.95 7.22-24.17 0.000 350 3
DSPI 20.4 25 116 21.06 P00 4.11 4.13 -0.01 1.096 0.00-16.95 7.32-24.27 0.000 350 3
NSUI 20.8 2 116 21.22 P00 4.27 4.18 0.09 1.096 24.14 7.19 7.83 -0.64 0.000 350 114 3.43
45 22.8 102 113 21.561PO 4.61 4.48 0.14 1.096 23.96 7.01 8.02 -1.01 0.000 350 3
MWSI 23.5 344 112 21.46 P 2 4.51 4.50 -0.07 0.274 26.12 9.17 8.49 0.69 0.000 350 73 3.03
815 25.2 304 110 21.821PC 4.87 4.85 0.02 1.096 26.46 9.51 9.87 -0.35 0.000 350 3
CGI 30.3 18 106 21.51 PC3 4.56 5.64 -1.07 0.069 26.48 9.53 9.89 -0.36 0.000 350 26 2.23
86 30.4 108 106 22.531PO 5.58 5.65 -0.07 1.096 0.00-16.95 9.92-26.86 0.000 350 3
RCI 30.5 300 106 22.49 PC0 5.54 5.67 -0.12 1.096 0.00-16.95 9.92-26.86 0.000 350 63 2.93
B17 30.6 333 106 22.481PC 5.53 5.67 -0.14 1.096 0.00-16.95 9.92-26.86 0.000 350 80 3.23
81 40.0 347 101 24.111P 7.16 7.16 0.01 1.096 0.00-16.95 13.19-30.14 0.000 350 3
MIR 42.3 342 100 24.70 P00 7.75 7.54 0.22 1.096 0.00-16.95 13.19-30.14 0.000 350 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SW NE SE E N NW
AVE. OF END POINTS 0.27 0.52 0.58 0.71 0.73 0.82 0.84

NUMBER RMS MIN DRMS AVE DRMS QUALITY
26 0.12 0.28 0.67 8

END END END END END END END

03/11/13 15/25 BEGIN-----BEGIN-----03/11/13 15/25

DATE ORIGIN LAT LONG DEPTH MAG MD O3 GAP M RMS ERM ERZ C SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SDFM
031113 1525 7.73 44N20.71 114W 0.69 4.85 2.87 12 18 169 1 0.07 0.7 0.9 8 AIC 0.08 10 20 0.00 0.06 0 0.0 0.0 9 2.9 0.4
SE OF ORIG = 0.052 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-Q-TT08-TTCAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR MHAG R PMP FMAG
01 7.2 332 122 9.331PD 1.60 1.60 -0.01 1.053 10.84 3.11 2.81 0.30 0.000 352 69 2.93
017 9.7 237 115 9.061PC 1.93 1.99 -0.06 1.053 11.34 3.61 3.49 0.12 0.737 352 3
016 18.1 166 103 11.151PC 3.42 3.43 -0.01 1.053 15.58 7.85 6.00 1.85 0.000 352 72 2.93
04 21.0 142 101 11.721PD 3.99 3.92 0.07 1.053 16.54 6.81 6.86 -0.06 0.737 352 103 3.33
015 23.9 219 100 12.161PC 4.43 4.45 -0.02 1.053 15.26 7.53 7.79 -0.26 0.000 352 53 2.73
013 28.7 183 98 12.971PC 5.24 5.29 -0.05 1.053 17.23 9.50 9.26 0.24 0.000 352 76 3.03
012 40.9 186 65 15.021PC 7.29 7.38 -0.10 1.053 19.97 12.24 12.92 -0.68 0.000 352 78 3.13
05 46.8 143 65 16.031P 8.50 8.34 -0.04 1.053 20.29 12.56 14.59 -2.04 0.000 352 94 3.33
011 47.6 160 65 16.371PD 8.64 8.48 0.16 1.053 22.62 15.09 14.84 0.25 0.000 352 58 2.93
06 54.5 141 65 17.351PC 9.62 9.60 0.02 1.053 22.87 15.14 16.80 -1.66 0.000 352 17 1.83

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z M E NW NE SW SE
AVE. OF END POINTS 0.13 0.15 0.16 0.17 0.17 0.16 0.20

NUMBER RMS MIN DRMS AVE DRMS QUALITY
9 0.07 0.08 0.17 0

-----END-----END-----END-----

83/11/13 15/23 BEGIN-----BEGIN-----83/11/13 15/23

SE = 0.75 SE = 1.12 VERTICAL
AZ = -59. AZ = 31. SE = 1.19 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SDO ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
#31113 1523 7.78 4AN20.63 114W 1.19 5.71 13 14 142 1 0.10 1.1 1.2 C BIC 0.63 10 25 0.00 0.09 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.074 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMKTCOR-O-TTDB-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
MMSI 9.9 180 118 10.01 PCO 2.23 2.08 0.14 1.000 0.00 -7.78 3.65-11.43 0.000
AIR 10.2 320 118 9.90 PCO 2.12 2.14 -0.02 1.000 0.00 -7.78 3.74-11.52 0.000
MSUI 13.6 149 111 10.42 P 2.64 2.69 -0.06 1.000 0.00 -7.78 4.72-12.50 0.000
MSUI 15.4 155 109 10.93 P 3.15 3.00 0.15 1.000 0.00 -7.78 5.47-13.25 0.000
CGI 16.1 103 108 11.06 PCO 3.28 3.12 0.15 1.000 0.00 -7.78 6.76-14.55 0.000
DSPI 20.4 133 104 11.49 P 3.71 3.86 -0.16 1.000 0.00 -7.78 7.64-15.72 0.000
M-2 23.3 149 102 12.18 P 4.40 4.36 0.17 -0.14 1.000 0.00 -7.78 8.52-16.31 0.000
RC1 26.2 229 101 12.59 PCO 4.81 4.87 -0.06 1.000 0.00 -7.78 8.95-16.74 0.000
MBAI 27.6 150 100 12.82 P 5.04 5.12 -0.08 1.000 0.00 -7.78 10.55-18.86 0.000
M-1 32.9 158 65 14.15 PCO 6.37 6.03 0.30 0.04 1.000 0.00 -7.78 11.54-19.32 0.000
BRPI 36.4 171 65 14.43 P 6.65 6.59 0.05 1.000 0.00 -7.78 12.56-20.34 0.000
LCRI 40.0 147 65 14.90 PCO 7.12 7.18 -0.06 1.000 0.00 -7.78 12.62-20.41 0.000
BRCI 40.2 184 65 15.05 PCO 7.27 7.21 0.05 1.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH M SE Z SW NW NE E
AVE. OF END POINTS 0.09 0.12 0.12 0.13 0.13 0.14 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.10 -0.01 0.13 0

-----END-----END-----END-----END-----

23/6

SE = 0.98
AZ = -112.
HORIZONTAL

GIN
15.68
0.07

[illegible]

QUALITY EVALUATION

ORDER POINTS

NUM8E

END

[illegible]

QUALITY EVALUATION																	
DIAGONALS IN ORDER OF STRENGTH			N		SE		SM		Z		NW		NE		E		
AVE. OF END POINTS			0.10		0.14		0.14		0.16		0.16		0.18		0.21		
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY		QUALITY		D							
13	0.10		0.03			0.16											
END						END						END				END	

-----BEGIN-----	-----BEGIN-----	-----BEGIN-----
83/11/14	83/11/14	83/11/14
5/35	5/35	5/35

SE =	0.84	SE =	2.81
AZ =	22.	AZ =	-68.
HORIZONTAL		VERTICAL	
		SE = 13.79	
		QUALITY = D	

```

DATE          ORIGIN      LAT      LONG      DEPTH
831114      535 53.40 44N10.47 114W21.76 7.57
MAG NO D3 GAP M RMS      ERM  E22 Q  SQD  AOJ  IN  NR  AVR  AAR  MM  AVMM  SUMM  MF  AVFM  SOFM
2.46 15 24 214 1 0.11  2.8 13.8 C10 0.23 10 17 0.00 0.09 0 0.0 0.0 12 2.5 0.1
SE OF ORIG = 0.235      7 ITERATIONS TOTAL

```

[illegible]

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NW	E	N	SE	NE	SW
AVE. OF END POINTS	0.07	0.08	0.08	0.11	0.11	0.14	0.18

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
6	0.11		0.05		0.12	0

END-----END-----END

HORIZONTAL		VERTICAL	
SE =	0.53	SE =	0.66
A2 =	25.	A2 =	-65.

VARI (----- S-WAVE TRAVEL-TIME DATA ---)(---- MAGNITUDE DATA ---)													
STATION DATA -)	P-WAVE TRAVEL-TIME DATA AND DELAYS				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA				
DIST AZM AIN PSEC PRNK+ICOR-DATOB-TTICAL-DELAY-EDLY=	P-RES	P-WT	THIC	SSEC SRMK	TT0B TTICAL	S-RES	S-WT	AMX	PR	IMAG	R	FMP	FMAG
2.4 200 157 40.9A1B7	0.95	1.14		43.26	3.27	1.99	1.28	0.000	357	47	2.53		
6.6 116 129 41.75 PC	1.76	1.60							357			3	
9.5 137 119 42.06 PC0	2.07	2.03		0.00-39.99	3.55-43.54	0.000			357			3	
10.2 122 117 42.11PC	2.12	2.14		0.00-39.99	3.74 -0.61	0.000			357	68	2.93		
10.8 0 116 42.30 P00	2.31	2.24		0.00-39.99	3.92-43.91	0.000			357			3	
11.5 102 115 42.41PC	2.42	2.35		46.04 4.05	4.11 -0.06	0.000			357	51	2.63		
16.2 122 108 43.15 P00	3.16	3.13		0.00-39.99	5.47-45.47	0.000			357			3	
16.3 152 107 42.95 P 0	2.96	3.15		0.00-39.99	5.51-45.51	0.000			357			3	
17.1 130 107 43.45 P+	3.46	3.29							357			3	
17.3 207 106 43.46IPC	3.47	3.23		45.98 5.99	5.02 0.16	0.728			357	43	2.53		
18.6 141 105 43.45IPC	3.66	3.55		46.30 6.31	6.22 0.09	0.728			357	49	2.63		
19.4 223 105 43.49 PC0	3.70	3.68		0.00-39.99	6.45-46.44	0.000			357			3	
23.3 49 102 44.30 PC0	4.31	4.26		47.00 7.01	7.62 -0.62	0.000			357			3	
24.2 117 102 44.45 P00	4.46	4.52		46.80 6.61	7.91 -1.30	0.000			357			3	
24.3 123 102 44.41EP -	4.42	4.53		48.88 8.89	7.93 0.96	0.000			357	73	3.03		
25.2 133 101 44.77 P-0	4.78	4.69	0.17	0.00-39.99	8.21-48.50	0.000			357			3	
26.2 167 101 44.71EPC	4.72	4.67		48.51 8.52	8.52 0.00	0.000			357	43	2.53		
29.3 135 100 45.39 P-1	5.40	5.37		51.94 11.95	9.50 2.45	0.000			357			3	
33.5 145 65 46.71 P00	6.72	6.12	0.30	0.00-39.99	10.72-51.23	0.000			357			3	
35.2 160 65 46.45 PC0	6.46	6.39		50.50 10.51	11.19 -0.68	0.000			357			3	
37.4 174 65 46.49 PC0	6.50	6.35		50.79 10.80	11.82 -1.02	0.000			357			3	
37.7 175 65 46.73IPC	6.74	6.61		51.54 11.55	11.92 -0.37	0.000			357	45	2.63		
41.7 137 65 47.52 P 0	7.53	7.46		0.00-39.99	13.05-53.04	0.000			357			3	
47.9 151 65 48.49IPC	8.50	8.45		54.72 14.73	14.79 -0.06	0.000			357	40	2.53		
49.3 134 65 48.62IPC	8.63	8.68		55.43 15.44	15.19 0.25	0.000			357	49	2.73		

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NW	NE	SE	E	SW	N
AVE. OF ENO POINTS	0.19	0.52	0.62	0.62	0.66	0.67	0.82

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
27	0.13	0.30			0.63	A

END
END
END
END

83/11/14 12/25 BEGIN-----BEGIN-----83/11/14 12/25

HORIZONTAL SE = 0.66 VERTICAL SE = 1.89 QUALITY = A
AZ = -49. AZ = 41.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831114 1225 48.41 44M 1.32 113W52.72 8.71 2.27 14 15 104 1 0.07 0.7 1.9 8 A18 0.05 10 20 0.00 0.06 0 0.0 0.0 13 2.3 0.2
SE OF ORIG = 0.065 6 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
011 10.5 140 123 50-81IPD 2.40 2.44 -0.03 1.045 53.13 4.72 4.26 0.46 0.000 360 40 2.43
013 14.0 301 113 51.37IPD 2.96 2.94 0.02 1.045 53.49 5.08 5.15 -0.07 0.731 360 28 2.13
012 15.4 252 110 51.60IPD 3.19 3.14 0.05 1.045 54.09 5.68 5.50 0.18 0.000 360 33 2.33
05 17.5 95 106 51.93IPC 3.52 3.47 0.05 1.045 55.11 6.70 6.58 0.12 0.731 360 42 2.53
016 19.3 342 104 52.14IPD 3.73 3.76 -0.03 1.045 58.20 9.79 9.84 -0.05 0.000 360 28 2.23
08 19.6 7 103 52.17IPD 3.76 3.79 -0.03 1.045 58.09 9.68 9.96 -0.18 0.000 360 41 2.53
USPI 22.2 10 101 52.59EP 4.14 4.21 -0.07 1.045 59.24 10.83 11.23 -0.39 0.000 360 23 2.03
NSUI 24.5 350 99 53.02EPD 4.61 4.58 0.03 1.045 360 18 1.83
02 31.0 348 96 54.00IPD 5.59 5.62 -0.03 1.045 360 31 2.33
015 31.1 304 96 54.07IPD 5.66 5.63 0.03 1.045 360 33 2.33
017 35.8 329 94 54.67IPC 6.26 6.41 -0.15 1.045 360 34 2.43
01 44.6 342 93 56.38IP 7.97 7.83 0.14 1.045 360 31 2.33
GCI 48.2 360 93 57.19EP 4 8.78 8.41 0.37 0.000 360 33 2.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH ME M SE E Z SH NM
AVE. OF END POINTS 0.12 0.13 0.15 0.15 0.15 0.20 0.21

NUMBER RMS MIN DRMS AVE DRMS QUALITY
10 0.07 0.08 0.16 0

-----END-----END-----END-----

83/11/14 15/35 BEGIN-----BEGIN-----83/11/14 15/35

HORIZONTAL
SE = 0.36
AZ = -65.
VERTICAL
SE = 1.93
QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SDFM
831114 1535 53.61 44N 2.38 113W55.19 9.69 2.13 12 14 98 1 0.06 0.6 1.9 0 A18 0.24 10 12 0.00 0.05 0 0.0 0.0 10 2.1 0.1
SE OF ORIG = 0.075
4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
SYN DIST AZM AIN PSEC PMK+YCDR-O-TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR XWAG R FMP FMAG
813 10.2 301 129 56.16IPC 2.55 2.49 0.06 1.053 0.03 1.053 58.85 5.24 5.26 -0.02 0.737 363 26 2.13
812 13.2 239 120 56.53IPC 2.92 2.89 -0.05 1.053 -0.04 1.053 60.73 7.12 7.12 0.00 0.737 363 28 2.13
811 14.0 141 118 56.57IPC 3.35 3.39 -0.04 1.053 0.05 1.053 363 29 2.23
816 16.6 350 113 56.96IPC 3.61 3.65 -0.04 1.053 0.05 1.053 363 27 2.13
84 18.3 18 110 57.22IPC 4.12 4.07 -0.06 1.053 0.02 1.053 363 30 2.23
85 21.1 100 106 57.73IPC 4.99 5.05 -0.09 1.053 0.12 1.053 363 37 2.43
815 27.3 304 101 58.60IPC 5.28 5.26 0.02 1.053 363 24 2.13
82 28.6 353 100 58.89IPC 5.80 5.89 -0.09 1.053 363 22 2.03
817 32.5 332 98 59.41IPC 7.50 7.38 0.12 1.053 363 23 2.03
81 41.7 345 96 61.11IPC 7.50 7.38 0.12 1.053 363 25 2.13

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE SE SW NW Z E
AVE. OF END POINTS 0.13 0.14 0.14 0.15 0.16 0.18 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
7 0.06 0.06 0.16 D

-----END-----END-----END-----END-----

83/11/14 12/36 BEGIN-----BEGIN-----83/11/14 12/36

HORIZONTAL SE = 0.27 SE = 0.36 VERTICAL SE = 0.51
AZ = -16. AZ = -106. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SOFM
831114 1236 51.49 44N 6.53 113W53.48 6.51 2.32 10 11 102 1 0.04 0.4 0.5 8 A18 0.06 10 16 0.00 0.03 0 0.0 0.0 10 2.3 0.1
SE OF ORIG = 0.022 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTICAL-DELT-EDLT= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP PMAG
916 10.1 330 122 53.661PC 2.17 2.19 -0.02 1.000 57.86 6.37 3.90 2.47 0.000 361 36 2.33
84 10.3 19 121 53.761PC 2.27 2.23 0.04 1.000 56.49 5.00 4.15 0.86 0.000 361 43 2.53
913 11.3 258 119 53.871PC 2.38 2.37 0.01 1.000 58.40 6.91 6.60 0.31 0.000 361 31 2.23
911 19.7 160 107 55.201PC 3.71 3.77 -0.06 1.008 361 33 2.33
912 19.8 223 107 55.291PC 3.80 3.80 0.00 1.000 361 30 2.23
82 21.4 345 105 55.541PC 4.05 4.08 -0.02 1.000 58.41 6.92 7.17 -0.25 0.000 361 41 2.53
95 21.6 121 105 55.631PC 4.14 4.10 0.04 1.000 59.49 8.00 8.46 -0.46 0.000 361 36 2.43
915 26.0 287 65 56.391PC 4.90 4.84 0.07 1.000 59.78 8.29 8.88 -0.58 0.000 361 31 2.33
917 27.4 320 65 56.531PC 5.04 5.07 -0.03 1.000 361 32 2.33
81 35.2 338 65 57.791PC 6.30 6.33 -0.03 1.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE 2 N NW NE SW E
AVE. OF END POINTS 0.09 0.17 0.17 0.18 0.18 0.22 0.30

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.04 0.05 0.20 0

83/11/14 13/33 BEGIN-----BEGIN-----83/11/14 13/33

HORIZONTAL SE = 0.47 SE = 0.65 VERTICAL SE = 0.98
AZ = -21. AZ = -111. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SQD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SOFM
931114 1333 51.59 44N 4.82 113W50.26 12.46 2.42 12 15 81 1 0.07 0.7 1.0 A1A 0.03 10 18 0.00 0.06 0 0.0 0.0 9 2.4 0.1
SE OF ORIG = 0.057 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTICAL-DELT-EDLT= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP PMAG
913 7.3 276 147 54.081PC 2.49 2.52 -0.03 1.053 55.94 4.35 4.41 -0.06 0.737 362 34 2.33
916 11.9 353 139 54.541PC 2.95 3.00 -0.05 1.053 56.92 5.33 5.25 0.08 0.737 362 35 2.33
94 14.8 29 126 54.961PC 3.37 3.34 0.03 1.053 57.07 5.48 5.85 -0.37 0.000 362 46 2.63
912 15.0 221 126 55.031PC 3.44 3.37 0.07 1.053 57.40 5.81 5.90 -0.09 0.000 362 35 2.43
811 18.5 146 119 55.451PC 3.86 3.86 0.00 1.053 58.69 7.10 8.07 -0.97 0.000 362 36 2.43
95 23.6 110 112 56.171PC 4.58 4.61 -0.03 1.053 59.14 7.55 8.10 -0.55 0.000 362 41 2.53
815 23.7 297 112 56.291PC 4.70 4.63 0.07 1.053 59.06 7.47 8.15 -0.68 0.000 362 39 2.53
82 23.9 355 112 56.311PC 4.72 4.66 0.06 1.053 60.11 8.52 9.20 -0.68 0.000 362 32 2.33
917 27.9 330 108 56.681PC 5.09 5.26 -0.17 1.053 362 36 2.43
91 37.0 345 103 58.311PC 6.72 6.69 0.04 1.053 362 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NE SE NW SW Z E N
AVE. OF END POINTS 0.13 0.13 0.14 0.15 0.17 0.18 0.21

83/11/14 16/26 BEGIN BEGIN BEGIN 83/11/14 16/26

HORIZONTAL SE = 0.30 SE = 1.09 VERTICAL SE = 1.05 QUALITY = A
AZ = -102. AZ = -12.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SODM NF AVFM SDFM
931114 1626 56.22 44W24.23 114W 4.54 5.16 2.84 25 12 130 1 0.15 1.1 1.1 8 818 0.06 10 39 0.00 0.11 0 0.0 0.0 6 2.8 0.0
SE OF ORIG = 0.092 & ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK-TCDR-D-TTDB-TTCAL-EDLY= P-RES P-MT THIC SSEC SSMK TTDB TTICAL S-RES S-MT AMX PR XNAG R PMP FMAG
81 1.7 94 161 57.161P 0.94 1.00 -0.06 1.114 0.00-56.22 1.84-58.06 0.000 0.00 3.78 7.99 -4.21 0.000 364 65 2.93
MIR 2.4 299 154 57.40 PCO 1.18 1.05 0.13 1.114 0.00-56.22 1.84-58.06 0.000 0.00 3.78 7.99 -4.21 0.000 364 65 2.93
917 12.2 194 111 58.711PC 2.49 2.43 -0.06 1.114 61.63 5.41 5.12 0.30 0.000 0.00 3.78 9.15 -5.37 0.000 364 67 2.93
62 15.1 143 107 59.131PO 2.91 2.92 -0.01 1.114 0.00-56.22 5.50-61.71 0.000 0.00 3.78 9.16 -5.38 0.000 364 63 2.83
GCI 16.4 70 106 59.37 P00 3.15 3.14 0.01 1.114 0.00-56.22 5.72-61.93 0.000 0.00 3.78 9.16 -5.38 0.000 364 63 2.83
MSI 17.1 165 105 59.70 PCO 3.48 3.27 -0.22 1.114 0.00-56.22 5.72-61.93 0.000 0.00 3.78 9.16 -5.38 0.000 364 63 2.83
MSUI 21.6 148 102 0.10 P 0 3.88 4.04 -0.16 1.114 0.00 3.78 7.07 -3.29 0.000 364 63 2.83
WSUI 23.3 152 101 60.80 P+ 4.58 4.35 -0.24 1.114 0.00 3.78 7.99 -4.21 0.000 364 63 2.83
AMPI 24.6 167 100 0.77 P 0 4.55 4.57 -0.01 1.114 0.00 3.78 7.99 -4.21 0.000 364 63 2.83
616 25.9 158 100 61.01EP 4.79 4.81 -0.02 1.114 0.00 3.78 7.99 -4.21 0.000 364 63 2.83
815 27.0 202 99 61.171P 4.95 5.00 -0.05 1.114 0.00 3.78 9.15 -5.37 0.000 364 65 2.93
OSPI 28.3 137 99 1.11 P00 4.89 5.23 -0.34 1.114 0.00 3.78 9.16 -5.38 0.000 364 63 2.83
RCI 28.3 213 99 1.29 PCO 5.07 5.24 -0.17 1.114 65.82 9.60 9.46 0.14 0.780 0.00 3.78 10.09 -6.61 0.000 364 57 2.83
84 29.3 142 99 61.461P 5.24 5.40 -0.16 1.114 0.00 3.78 10.09 -6.61 0.000 364 57 2.83
M-2 31.3 149 98 2.16 P00 5.94 5.77 0.17 -0.17 1.114 0.00 3.78 11.39 -7.61 0.000 364 58 2.93
913 35.4 174 65 62.52EP 6.30 6.47 -0.05 1.114 0.00 3.78 12.87 -9.61 0.000 364 58 2.93
M8AI 35.6 149 65 2.68 PCO 6.46 6.51 -0.05 1.114 0.00 3.78 12.87 -9.61 0.000 364 58 2.93
M-1 40.8 155 65 4.17 P 2 7.95 7.35 0.30 0.278 9.70 13.48 13.71 -0.23 0.000 10.28 14.06 14.57 -0.51 0.000 364 58 2.93
8RPI 43.8 167 65 4.20 P+2 7.98 7.84 0.15 0.278 10.28 14.06 14.57 -0.51 0.000 364 58 2.93
JRCI 46.8 178 65 4.78 P 2 8.56 8.33 -0.23 0.278 10.28 14.06 14.57 -0.51 0.000 364 58 2.93
612 47.2 179 65 64.52EPD 8.30 8.39 -0.09 1.114 0.00 3.78 14.91 -11.13 0.000 364 55 2.83
LCRI 48.0 147 65 4.82 P 0 8.60 8.52 0.08 1.114 0.00 3.78 14.91 -11.13 0.000 364 55 2.83
65 55.1 143 65 65.881P 9.66 9.66 0.00 1.114 0.00 3.78 14.91 -11.13 0.000 364 55 2.83
311 55.6 157 65 66.24EPD 10.02 9.74 0.28 1.114 0.00 3.78 14.91 -11.13 0.000 364 55 2.83

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW Z N NW SE E NE
AVE. OF ENO POINTS 0.04 0.05 0.06 0.06 0.06 0.09 0.12 0.15

NUMBER RMS MIN DRMS AVE DRMS QUALITY
20 0.15 -0.01 0.09 0

END END END

83/11/15 4/13 BEGIN-----BEGIN-----83/11/15 4/13

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SODM NF AVFM SDFM
431115 413 17.24 44N14.61 114W 1.67 7.72 2.35 16 8 69 1 0.09 0.7 1.3 A A1A 0.23 10 23 0.00 0.07 0 0.0 0.0 14 2.4 0.2
SE OF ORIG = 0.051 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK+TCOR-Q-TT08-TICAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR IMAG R PMP FMAG
NWS1 1.4 25 169 18.641PD 1.40 1.42 -0.02 1.019 0.03 1.019 21.64 4.40 3.46 0.95 0.000 367 27 2.13
NSU1 7.7 93 129 19.241PD 2.00 1.97 0.03 1.019 0.03 1.019 21.23 3.99 3.63 0.37 0.000 367 27 2.13
62 7.7 43 129 19.241P 2.00 1.98 0.04 1.019 0.04 1.019 20.72 3.48 3.75 -0.27 0.000 367 42 2.53
616 8.6 137 125 19.351PC 2.11 2.07 1.98 2.15 -0.16 1.019 22.51 5.27 5.38 -0.10 0.000 367 41 2.43
317 9.0 311 123 19.221PD 1.98 2.15 3.00 3.07 -0.07 1.019 22.75 5.51 5.39 0.12 0.713 367 47 2.63
44 15.2 110 104 20.241PD 3.00 3.07 3.01 3.08 0.07 1.019 23.48 6.24 5.96 0.29 0.000 367 36 2.43
PSD 15.3 114 104 20.25 P 3.01 3.08 3.27 3.13 0.14 1.019 23.83 6.59 6.53 0.06 0.000 367 32 2.33
615 15.6 242 103 20.511PC 3.27 3.13 3.14 3.18 -0.03 1.019 29.28 12.04 12.18 -0.14 0.000 367 30 2.23
OSPI 15.9 100 102 20.381PD 3.14 3.18 3.36 3.40 -0.04 1.019 367 30 2.23
613 17.4 180 100 20.601PC 3.36 3.40 3.78 3.73 0.05 1.019 367 32 2.33
M6A1 19.4 131 97 21.021PD 3.78 3.73 3.91 3.82 0.10 1.019 367 40 2.53
MIR 19.9 343 97 21.151P 3.91 3.82 5.29 5.37 -0.08 1.019 367 30 2.23
612 29.5 185 93 21.531PC 5.29 5.37 6.81 6.71 0.10 1.019 367 36 2.43
611 37.8 152 92 24.051PD 6.81 6.71 6.84 6.96 -0.12 1.019 367 43 2.63
95 39.3 132 92 24.081PC 6.84 6.96

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SE SW NW N E SE
AVE. OF END POINTS 0.27 0.53 0.66 0.77 0.81 0.86 0.87

NUMBER RMS MIN ORMS AVE ORMS QUALITY
16 0.09 0.30 0.71 8

-----END-----END-----END-----END-----

83/11/15 8/10 BEGIN-----BEGIN-----83/11/15 8/10

DATE ORIGIN LAT LONG DEPTH MAG MO D3 GAP M RMS ERH ER2 Q SDO ADJ IN NR AVR AAR MM AVXM SOXM NF AVFM SOFM
831115 810 51.49 44N 7.68 113W56.27 11.03 2.83 27 7 47 1 0.13 0.7 1.3 A AIA 2.14 10 48 0.00 0.10 0 0.0 0.0 10 2.8 0.1
SE OF ORIG = 0.067 3 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STM DIST AZM AIN PSC PRMK+TCOR-O-TT08-TTCAL-RELAT-EOLY= P-RES P-WT THIC SEC SMK TTOB TTCL S-RES S-WT AMX PR MAG R FMP FMAG
M-2 6.6 54 146 53.99 P00 2.50 2.26 0.17 0.08 1.139 0.00-51.49 3.95-55.74 0.000 369 3
016 6.7 368 146 53.71IP 2.22 2.27 -0.04 1.139 55.61 4.12 3.97 0.16 0.797 369 59 2.83
M0A1 7.4 89 143 53.87 P-2 2.38 2.34 0.05 0.285 0.00-51.49 4.09-55.57 0.000 369 3
013 8.6 238 139 53.96IPC 2.47 2.45 0.02 1.139 55.84 4.35 4.29 0.06 0.000 369 54 2.73
ANPI 8.6 321 139 53.82 P00 2.33 2.46 -0.12 1.139 0.00-51.49 4.30-55.79 0.000 369 3
M-1 8.8 137 138 54.26 PC0 2.77 2.48 0.00 1.139 0.00-51.49 4.34-56.35 0.000 369 3
MSUI 10.0 380 134 54.10 P 2.61 2.61 0.00 1.139 56.63 5.14 4.06 0.48 0.000 369 78 3.03
04 10.4 43 133 54.08IP 2.59 2.66 -0.07 1.139 0.00-51.49 5.01-56.49 0.000 369 3
0RPI 12.1 185 128 54.25 PC2 2.76 2.86 -0.10 0.285 0.00-51.49 5.07-56.56 0.000 369 3
MSUI 12.4 2 127 54.38 P00 2.89 2.90 0.00 1.139 0.00-51.49 5.24-56.73 0.000 369 3
OSPI 13.2 40 125 54.41 P-2 2.92 3.00 -0.07 0.285 0.00-51.49 5.83-57.32 0.000 369 3
MWSI 15.6 335 120 54.77 P00 3.28 3.33 -0.05 1.139 0.00-51.49 6.22-57.71 0.000 369 3
0IGA 17.2 339 117 54.99 P00 3.50 3.56 0.00-51.49 6.43-57.92 0.000 369 3
LCRI 18.0 122 116 55.00 PC0 3.71 3.77 -0.16 1.139 0.00-51.49 6.59-58.08 0.000 369 3
0RC1 18.6 210 115 55.20 PC0 3.93 3.77 0.00 1.139 58.41 6.92 6.60 0.33 0.000 369 57 2.83
02 19.3 211 114 55.42IPC 3.93 3.86 -0.10 1.139 0.08 1.139 369 53 2.73
05U3 19.5 338 113 55.61 P 4.12 3.91 0.22 1.139 56.93 5.44 7.43 -1.98 0.000 369 61 2.93
015 21.7 285 110 55.83IPC 4.34 4.25 0.10 1.139 0.00-51.49 7.61-59.10 0.000 369 3
CGI 22.4 24 109 55.61 P 2 4.12 4.35 -0.23 0.265 0.00-51.49 7.79 0.50 0.000 369 53 2.73
011 23.1 153 109 56.06IP0 4.57 4.45 0.12 1.139 59.78 8.29 7.79 0.50 0.000 369 54 2.83
017 23.4 323 108 55.74IPC 4.25 4.50 -0.25 1.139 58.79 7.30 7.88 -0.57 0.000 369 73 3.03
35 25.9 121 106 56.47IPC 4.98 4.88 0.11 1.139 59.12 7.63 8.54 -0.90 0.000 369 3
RCI 27.3 285 105 56.46 P 0 4.97 5.11 -0.13 1.139 0.00-51.49 8.93-60.42 0.000 369 64 2.93
01 31.9 343 102 57.24IP 5.75 5.84 -0.08 1.139 0.00-51.49 10.91-62.40 0.000 369 3
MIR 34.4 338 101 58.10 P00 6.61 6.24 0.38 1.139 0.00-51.49 10.91-62.40 0.000 369

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 ME SM E SE NM M
AVE. OF END POINTS 0.26 0.54 0.59 0.64 0.73 0.76 0.85

NUMBER RMS MIN DRMS AVE DRMS QUALITY
27 0.13 0.28 0.65 0

-----END-----END-----END-----

83/11/15 9/55 BEGIN BEGIN BEGIN 83/11/15 9/55

HORIZONTAL SE = 1.00 SE = 2.79 VERTICAL SE = 3.49 QUALITY = 8
AZ = 12. AZ = -78.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
#J1115 955 49.15 44N17.97 114W22.50 9.42 2.74 27 21 274 1 0.15 2.8 3.5 0 C10 0.18 10 42 0.00 0.12 0 0.0 0.0 9 2.7 0.1
SE OF ORIG = 0.224 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PMK+TCOR=0-TDOB-TTCAL-DELT-EOLV= P-RES P-WT THIC SSEC SRMK YTOB TTICAL S-RES S-WT AMX PR IMAG R FMP PHAG
R1 14.8 145 115 52.27 PC0 3.12 3.10 0.02 1.130 0.00-49.15 5.62-56.58 0.000 370 53 2.73 3
R15 19.4 134 107 53.15IPC 4.00 3.79 -0.20 1.130 55.75 6.60 6.64 -0.04 0.791 370 50 2.73 3
R17 20.9 91 105 53.12IPC 3.97 4.03 -0.06 1.130 0.00-49.15 8.26-57.41 0.000 370 3 3
MIR 25.2 60 101 54.00 P00 4.85 4.72 0.13 1.130 57.69 8.54 9.23 -0.69 0.000 370 3 3
R5U3 27.7 92 100 54.26 PC 5.11 5.11 0.00 1.130 0.00-49.15 10.15-59.30 0.000 370 46 2.63 3
R1 28.0 66 99 54.24IPC 5.09 5.16 -0.07 1.130 0.00-49.15 10.93-60.08 0.000 370 45 2.63 3
MWSI 28.7 100 99 54.33 P+1 5.18 5.27 -0.10 0.636 57.69 8.54 9.23 -0.69 0.000 370 3 3
ANPI 32.0 113 97 54.76 P00 5.61 5.80 -0.19 1.130 0.00-49.15 10.15-59.30 0.000 370 3 3
R2 33.0 91 97 55.15IP 6.00 5.95 0.04 1.130 0.00-49.15 10.93-60.08 0.000 370 45 2.63 3
R16 34.8 93 97 55.59 P+2 6.44 6.25 0.19 0.283 0.00-49.15 10.93-60.08 0.000 370 45 2.63 3
R16 35.8 110 96 55.57EP 6.42 6.41 0.00 1.130 0.00-49.15 11.28-60.43 0.000 370 45 2.63 3
MSUI 36.0 105 96 55.50 P 6.35 6.44 -0.09 1.130 0.00-49.15 13.25-62.71 0.000 370 63 2.93 3
R13 36.4 130 96 55.62IPD 6.26 6.44 -0.19 1.130 61.25 12.10 13.42 -1.32 0.000 370 47 2.73 3
M-2 43.0 111 95 56.99 P-0 6.47 6.50 -0.04 1.130 0.00-49.15 13.25-62.71 0.000 370 45 2.63 3
R4 43.6 105 95 56.73IP 7.84 7.57 0.09 1.130 0.00-49.15 13.25-62.71 0.000 370 63 2.93 3
R8CI 43.6 144 95 56.65 P-0 7.58 7.66 -0.09 1.130 61.25 12.10 13.42 -1.32 0.000 370 47 2.73 3
R12 43.6 145 95 56.70EPC 7.50 7.67 -0.17 1.130 0.00-49.15 13.56-62.71 0.000 370 3 3
CGI 44.1 88 95 56.71 P 7.55 7.67 -0.12 1.130 0.00-49.15 13.56-62.71 0.000 370 3 3
OSPI 44.3 102 95 56.80 P+1 7.56 7.75 -0.19 0.636 0.00-49.15 13.56-62.71 0.000 370 3 3
R8PI 45.9 133 94 57.05 PC0 7.85 7.77 -0.13 0.636 60.45 11.30 14.07 -2.78 0.000 370 3 3
MBA1 46.4 114 94 57.68 PC0 8.53 8.12 0.41 1.130 0.00-49.15 14.20-63.36 0.000 370 3 3
M-1 48.2 122 94 58.16 P 9.01 8.41 0.30 0.283 0.00-49.15 14.72-64.40 0.000 370 3 3
LCRI 57.7 120 93 59.29 P 10.14 9.97 0.17 1.130 0.00-49.15 17.44-66.60 0.000 370 3 3
R11 60.3 131 93 59.56IPD 10.41 10.38 0.03 1.130 62.98 13.83 18.16 -4.33 0.000 370 61 3.03 3
R5 65.6 120 93 60.62IPC 11.47 11.25 0.22 1.130

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW Z N E SE NE SW
AVE. OF END POINTS 0.03 0.05 0.06 0.07 0.07 0.12 0.13

NUMBER RMS MIN ORMS AVE ORMS QUALITY
13 0.15 0.01 0.08 D

END END END END END

83/11/15 12/47 BEGIN-----BEGIN-----83/11/15 12/47

HORIZONTAL SE = 0.43 SE = 0.54 VERTICAL SE = 1.15 QUALITY = A
AZ = -4. AZ = -94.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SOXM MP AVPM SOFM
831115 1247 6.16 44N 8.75 113W55.21 8.02 2.73 11 11 81 1 0.07 0.5 1.2 A AIA 0.08 10 15 0.00 0.06 0 0.0 0.0 9 2.7 0.2
SE OF ORIG = 0.042 4 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TOTON-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDW TTCAL S-RES S-WT AMX PR XIMAG R FMP FMAG
816 5.4 328 142 7.87IPO 1.71 1.74 -0.04 1.028 9.07 2.91 3.05 -0.15 0.000 371 43 2.53
84 8.0 45 129 8.23IPO 2.09 2.04 0.06 1.028 10.45 4.29 3.57 0.71 0.000 371 59 2.83
813 10.9 233 118 8.53IPC 2.37 2.42 -0.06 1.028 10.48 4.32 4.24 0.07 0.720 371 50 2.63
92 16.9 349 103 9.44IPO 3.28 3.35 -0.07 1.028 11.94 5.78 5.86 -0.08 0.000 371 82 3.13
812 21.7 211 97 10.22EPC 4.06 4.12 -0.06 1.028 14.19 8.03 7.49 0.53 0.000 371 50 2.73
815 22.7 279 96 10.57IPC 4.41 4.28 0.12 1.028 371 43 2.53
817 22.8 318 96 10.41IPC 4.25 4.29 -0.05 1.028 371 64 2.93
811 24.3 159 96 10.65EPO 4.49 4.54 -0.06 1.028 371 63 2.33
85 25.8 126 95 11.02IPC 4.86 4.78 0.08 1.028 371 51 2.73
81 30.5 339 94 11.74IP 5.58 5.54 0.04 1.028

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N Z NE SE NW E SW
AVE. OF END POINTS 0.12 0.13 0.14 0.15 0.18 0.19 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.07 0.08 0.16 0

-----END-----END-----END-----END-----

03/11/15 13/ 3 BEGIN-----BEGIN-----83/11/15 13/ 3

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SOXM MF AVFM SOFM
33115 13.3 1.33 44N10.31 113W59.78 9.20 2.67 27 7 77 1 0.12 0.5 1.3 A AIA 0.16 10 46 0.00 0.10 0 0.0 0.0 10 2.7 0.7
SE OF ORIG = 0.057 3 ITERATIONS TOTAL

SE = 0.43 HORIZONTAL SE = 0.54 VERTICAL
AZ = -42. AZ = -132. SE = 1.35 QUALITY = A

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-Q-TTTOB-TTICAL-DELAY-EDLY- P-RES P-WT TMIC SSEC SRMK TTTOB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
ANPI 2.0 336 167 3.07 P00 1.74 1.68 0.06 1.040 0.00 -1.33 2.93 -4.26 0.000 372 3
816 3.7 63 156 3.11 P00 1.78 1.77 0.01 1.040 4.03 2.70 3.09 -0.39 0.000 372 70 2.93
MSUI 6.9 42 139 3.37 P00 2.04 2.05 -0.01 1.040 0.00 -1.33 4.03 -5.36 0.000 372 3
MSUI 9.1 35 130 3.51 P 0 2.18 2.30 0.12 1.040 5.34 4.01 4.09 -0.08 0.000 372 3
MSUI 9.4 348 129 3.73 P00 2.40 2.34 0.06 1.040 6.15 4.82 4.16 0.66 0.000 372 6 0.83
813 9.8 195 128 3.83 P00 2.50 2.38 0.12 1.040 0.00 -1.33 4.22 -5.85 0.000 372 3
M-2 10.0 96 127 3.93 P00 2.60 2.41 0.02 1.040 0.00 -1.33 4.72 0.45 0.000 372 80 3.03
84 12.1 77 121 3.97 P00 2.64 2.70 -0.06 1.040 0.00 -1.33 4.93 -6.26 0.000 372 3
MSAI 13.0 111 118 4.25 P00 2.92 2.82 0.10 1.040 0.00 -1.33 4.96 -6.29 0.000 372 3
81CA 13.1 20 118 4.05 P-1 2.72 2.83 -0.11 0.585 0.00 -1.33 4.96 -6.29 0.000 372 3
8503 13.5 349 117 4.50 P0 3.17 2.89 0.28 1.040 7.07 5.74 5.17 0.57 0.000 372 65 2.93
82 13.9 11 116 4.25 P00 2.92 2.95 -0.03 1.040 6.43 5.10 5.22 -0.12 0.000 372 3
OSPI 14.2 68 116 4.18 P00 3.05 3.20 0.13 1.040 0.00 -1.33 5.61 -7.46 0.000 372 3
M-1 15.6 137 112 4.85 P00 3.52 3.32 0.02 1.040 6.90 5.57 5.81 -0.24 0.728 372 52 2.73
815 16.4 272 111 4.82 P00 3.49 3.38 0.17 1.040 8.11 6.78 7.01 -0.23 0.000 372 62 2.83
817 16.7 326 110 4.61 P00 3.28 3.38 0.10 1.040 8.55 7.22 7.22 0.00 0.000 372 3
CUI 20.9 42 104 5.31 P00 3.98 4.01 -0.03 1.040 7.97 6.64 7.31 -0.67 0.000 372 3
8RCI 21.5 192 104 5.35 P00 4.02 4.13 -0.10 1.040 0.00 -1.33 8.07 -9.40 0.000 372 60 2.83
RCI 21.9 275 103 5.47 P00 4.14 4.18 -0.04 1.040 0.00 -1.33 8.07 -9.40 0.000 372 3
812 22.1 194 103 5.49 P00 4.16 4.21 -0.05 1.040 9.69 8.36 8.48 -0.12 0.000 372 73 3.03
LCRI 24.6 126 101 5.79 P00 4.46 4.61 -0.15 1.040 0.00 -1.33 9.09 -10.42 0.000 372 3
81 26.1 350 100 6.01 P00 4.68 4.84 -0.16 1.040 12.02 10.69 10.26 0.43 0.000 372 41 2.53
MIR 28.3 343 98 6.80 P 0 5.47 5.19 0.26 1.040 0.00 -1.33 9.09 -10.42 0.000 372 87 3.23
811 29.6 150 98 6.76 P 0 5.43 5.41 0.02 1.040
85 32.4 124 97 7.32 P00 5.99 5.87 0.13 1.040

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH I NE SW NW E SE M
AVE. OF END POINTS 0.23 0.62 0.68 0.80 0.87 0.89 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
27 0.12 0.25 0.75 QUALITY B

-----END-----END-----END-----END-----

03/11/15 13/27 BEGIN BEGIN BEGIN 03/11/15 13/27

HORIZONTAL SE = 1.26 SE = 3.75 VERTICAL SE = 3.45
AZ = -100. AZ = -10. QUALITY = 0

DATE ORIGIN LAT LONG DEPTH MAG ND 03 GAP M RMS ERM ERZ Q SDD ADJ IN NR AVR AR NM AVXM SDDM NF AVFM SOFM
031115 1327 5.75 4N26.02 114W 5.41 10.39 13 21 275 1 0.10 3.0 3.4 C BID 0.13 10 26 0.00 0.09 0 0.0 0.0 0 0.0 0.0
SE OF ORIG = 0.349 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR=0-TTCOR-TTCAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XMAG R FMP FMAU
MIR 2.3 204 146 7.60 P00 1.85 1.88 0.00 -5.75 3.29 -9.04 0.000
0S03 16.6 163 116 9.32 PC 3.57 3.43 0.14 1.149 0.00 -5.75 7.07-12.82 0.000
NWSI 20.6 164 109 9.92 PC0 4.17 4.04 0.13 1.149 0.00 -5.75 7.07-12.82 0.000
DIGA 20.6 145 109 9.65 P00 3.90 4.04 -0.14 1.149 0.00 -5.75 8.25-14.00 0.000
NSUI 25.0 150 105 10.31 P 0 4.56 4.72 -0.15 1.149 0.00 -5.75 8.31-14.06 0.000
CGI 25.2 122 105 10.61 P00 4.86 4.75 0.11 1.149 0.00 -5.75 9.81-15.56 0.000
WSUI 26.8 153 103 10.70 P0 4.95 4.99 -0.04 1.149 0.00 -5.75 10.98-17.03 0.000
RCI 30.6 208 101 11.37 PC0 5.62 5.61 0.01 1.149 0.00 -5.75 12.19-17.93 0.000
M-2 34.8 150 99 11.98 P 3 6.23 6.27 0.17 0.072 0.00 -5.75 13.66-19.94 0.000
4BAI 39.1 150 98 12.65 P00 6.90 6.96 0.06 1.149 0.00 -5.75 14.50-20.25 0.000
M-1 44.3 156 96 14.45 P+2 8.70 7.81 0.30 0.590 0.000 0.00 -5.75 15.33-21.07 0.000
4RPI 47.3 167 96 14.10 PC2 8.35 8.29 0.06 0.267 0.00 -5.75 15.67-21.42 0.000
ARCI 50.2 177 95 14.45 P+0 8.70 8.76 -0.06 1.149 0.00 -5.75 15.67-21.42 0.000
LCRI 51.5 148 95 14.79 P 0 9.04 8.96 0.08 1.149 0.00 -5.75 15.67-21.42 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE SW N Z NE E
AVE. OF END POINTS 0.06 0.10 0.11 0.12 0.17 0.17 0.17

NUMBER RMS MIN DRMS AVE DRMS QUALITY
11 0.10 0.05 0.13 0

END END END END END END

83/11/15 15/58 BEGIN-----BEGIN-----83/11/15 15/58

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831115 1558 1.00 44N16.13 114W 6.37 8.31 2.44 12 13 134 1 0.06 0.8 1.1 8 A18 0.08 10 15 0.00 0.06 0 0.0 0.0 10 2.4 0.2
SE OF ORIG = 0.066 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTICAL-DELY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR NMAG R FMP FMAG
017 3.2 351 157 2.581PD 1.58 1.60 -0.03 1.053 3.83 2.83 2.80 0.02 0.737 373 55 2.73
02 11.8 76 117 3.641PC 2.64 2.58 0.05 1.053 5.75 4.75 4.73 0.01 0.737 373 35 2.33
015 12.6 217 115 3.751PD 2.75 2.70 0.04 1.053 6.31 5.31 5.39 -0.08 0.000 373 40 2.43
016 15.1 127 109 4.011PD 3.01 3.08 -0.07 1.053 6.45 5.45 7.04 -1.60 0.000 373 34 2.33
01 15.4 16 108 4.111PC 3.11 3.13 -0.02 1.053 11.74 10.74 14.08 -3.34 0.000 373 40 2.43
013 21.1 163 99 4.951PD 3.95 4.03 -0.06 1.053 373 30 2.23
34 22.1 111 99 5.12EPC 4.12 4.18 -0.06 1.053 373 57 2.83
012 32.4 174 94 6.80EPC 5.80 5.86 -0.06 1.053 373 32 2.33
011 43.4 147 93 8.75EPC 7.75 7.64 0.11 1.053 373 32 2.43
05 45.9 129 92 9.141PD 8.14 8.05 0.09 1.053 373 42 2.63

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE Z NW NE SW E N
AVE. OF END POINTS 0.07 0.15 0.16 0.17 0.17 0.21 0.21 0.21

NUMBER RMS MIN ORMS AVE ORMS QUALITY
6 0.06 0.06 0.16 D

83/11/15 16/16 BEGIN-----BEGIN-----83/11/15 16/16

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SDFM
831115 1616 27.44 44N13.90 114W 2.83 6.69 2.69 11 10 80 1 0.07 0.7 0.8 8 A18 0.23 10 15 0.00 0.06 0 0.0 0.0 9 2.7 0.1
SE OF ORIG = 0.040 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTICAL-DELY-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR NMAG R FMP FMAG
016 8.9 124 126 29.501PD 2.06 2.03 0.03 1.050 30.12 2.68 3.56 -0.88 0.000 374 50 2.63
017 9.0 324 125 29.481PD 2.04 2.05 -0.01 1.058 30.93 3.49 3.58 -0.09 0.740 374 55 2.73
02 9.0 44 123 29.651PC 2.21 2.16 0.04 1.058 33.00 5.56 4.86 0.70 0.000 374 54 2.73
015 13.6 244 115 30.381PC 2.94 2.78 0.16 1.058 32.93 5.49 5.57 -0.08 0.740 374 53 2.73
013 16.1 175 111 30.611PC 3.17 3.18 -0.02 1.058 34.18 6.74 9.05 -2.31 0.000 374 55 2.73
01 19.0 358 108 31.081PC 3.64 3.67 -0.03 1.058 39.96 12.52 12.33 0.18 0.000 374 50 2.63
012 28.1 182 65 32.501PC 5.06 5.17 -0.11 1.058 374 56 2.83
011 37.4 149 65 34.171P 6.73 6.68 0.05 1.058 374 44 2.63
05 39.7 129 65 34.511PD 7.07 7.05 0.02 1.058 374 58 2.83

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E SW Z NW NE SE
AVE. OF END POINTS 0.08 0.14 0.15 0.16 0.20 0.21 0.23

83/11/15 19/52 -----BEGIN----- 83/11/15 19/52

HORIZONTAL SE = 0.43 SE = 0.53 VERTICAL SE = 1.00
AZ = -9. AZ = -99. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFM
931115 1952 15.05 44N10.86 114W 0.33 12.15 2.64 12 13 78 1 0.07 0.5 1.0 A AIA 0.50 10 19 0.00 0.06 0 0.0 0.0 10 2.6 0.1
SE OF ORIG = 0.058 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
816 4.1 81 160 17.271PC 2.22 2.24 -0.01 1.053 19.97 4.92 3.91 1.01 0.000 375 49 2.63
813 10.6 190 136 17.791PC 2.74 2.81 -0.06 1.053 20.09 5.04 4.92 0.13 0.737 375 42 2.53
84 12.6 82 130 18.081PC 3.03 3.05 -0.01 1.053 20.30 5.25 5.34 -0.08 0.737 375 59 2.83
82 13.1 15 129 18.241PC 3.19 3.11 0.09 1.053 21.02 5.97 5.44 0.56 0.000 375 38 2.43
817 15.5 326 124 18.401PC 3.35 3.42 -0.07 1.053 20.85 5.80 5.99 -0.18 0.000 375 45 2.63
815 15.6 269 123 18.501PC 3.45 3.44 -0.02 1.053 21.23 6.18 6.02 0.17 0.000 375 44 2.63
812 22.9 191 112 19.421PC 4.37 4.49 -0.11 1.053 23.58 8.53 8.39 0.14 0.000 375 59 2.83
81 24.9 351 110 19.881PC 4.83 4.80 0.04 1.053 25.19 10.14 9.99 0.16 0.000 375 50 2.73
811 30.9 149 105 20.811PC 5.76 5.71 0.06 1.053 26.52 11.47 10.74 0.73 0.000 375 42 2.63
85 33.6 125 104 21.221PC 6.17 6.14 0.04 1.053 26.52 11.47 10.74 0.73 0.000 375 58 2.93

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW NW E SE N
AVE. OF END POINTS 0.40 0.76 0.77 0.81 0.82 0.83 0.98

NUMBER RMS MIN DRMS AVE DRMS QUALITY
12 0.07 0.42 0.80 A

338

83/11/15 21/13 -----BEGIN----- 83/11/15 21/13

HORIZONTAL SE = 0.32 SE = 0.56 VERTICAL SE = 1.25
AZ = -26. AZ = -114. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SDXM MF AVFM SDFM
831115 2113 36.42 44N 113W54.26 8.15 2.33 12 12 95 1 0.06 0.6 1.2 B AIB 0.06 10 17 0.00 0.05 0 0.0 0.0 9 2.3 0.1
SE OF ORIG = 0.039 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR AMAG R FMP FMAG
913 10.1 261 122 38.791PC 2.37 2.33 0.04 1.053 40.81 4.39 4.07 0.31 0.000 376 29 2.13
916 10.4 337 121 38.731PC 2.31 2.37 -0.06 1.053 40.58 4.16 4.14 0.01 0.737 376 35 2.33
84 11.5 23 117 38.941PC 2.52 2.52 -0.01 1.053 42.12 6.30 6.31 -0.01 0.000 376 42 2.53
812 18.5 223 102 39.961PC 3.54 3.50 -0.07 1.053 43.00 6.58 6.52 0.06 0.737 376 33 2.33
811 19.3 157 101 40.201PC 3.78 3.73 0.05 1.053 44.15 7.73 7.28 0.45 0.000 376 31 2.23
82 22.0 348 98 40.621PC 4.20 4.16 -0.04 1.053 44.02 7.60 7.29 0.30 0.000 376 39 2.43
85 22.1 118 98 40.521PC 4.10 4.17 -0.07 1.053 44.82 8.40 8.82 -0.43 0.000 376 29 2.23
815 25.2 290 96 41.121PC 4.70 4.69 0.01 1.053 44.82 8.40 8.82 -0.43 0.000 376 35 2.43
817 27.4 323 95 41.371PC 4.95 5.04 -0.10 1.053 44.82 8.40 8.82 -0.43 0.000 376 35 2.43
81 35.6 340 93 42.911PC 6.49 6.36 0.12 1.053 44.82 8.40 8.82 -0.43 0.000 376 35 2.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE E N NW Z NE SW
AVE. OF END POINTS 0.04 0.12 0.14 0.14 0.14 0.15 0.20 0.24

03/11/15 21/37 ----- BEGIN ----- BEGIN ----- 83/11/15 21/37

MAGNITUDE DATA --)
 SE = 0.47 HORIZONTAL SE = 0.60 VERTICAL
 AZ = -53. AZ = 37. SE = 1.64 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
 031115 2137 13.92 44N13.32 114W 2.72 8.72 2.43 11 10 79 1 0.07 0.6 1.6 A AIA 0.09 10 18 0.00 0.06 0 0.0 0.0 10 2.4 0.1
 SE OF ORIG = 0.070 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIN PSEC PMK+TCOR-O-TTDB-TICAL-DELT-EDLT= P-RES P-WT THIC SSCC SRMK TTDB TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
 016 8-2 118 132 16.091PD 2.17 2.14 0.03 1.058 18.49 4.57 3.74 0.83 0.000 377 46 2.53
 017 9-9 327 125 16.181PC 2.26 2.35 -0.09 1.058 18.06 4.14 4.11 0.03 0.740 377 40 2.43
 02 10-5 39 123 16.441PC 2.52 2.43 0.09 1.058 18.31 4.39 4.95 -0.56 0.000 377 33 2.33
 015 13-4 249 115 16.801PD 2.88 2.83 0.05 1.058 19.09 5.17 5.41 -0.24 0.000 377 38 2.43
 013 15-0 175 111 16.991PD 3.07 3.09 -0.02 1.058 19.44 5.52 5.65 -0.13 0.740 377 36 2.43
 04 16-0 100 109 17.191PC 3.27 3.23 0.04 1.058 21.25 7.33 6.79 0.54 0.000 377 42 2.53
 01 20-1 358 103 17.751PC 3.83 3.88 -0.05 1.058 25.42 11.50 11.39 0.11 0.000 377 37 2.43
 012 27-0 183 97 18.821PC 4.90 4.99 -0.08 1.058 27.12 13.20 12.09 1.11 0.000 377 48 2.63
 011 36-4 149 94 20.521PD 6.60 6.51 0.09 1.058 377 34 2.43
 05 38-9 128 94 21.171P 4 7.25 6.91 0.34 0.000 377 32 2.33

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE 2 SW M NE E
 AVE. OF END POINTS 0.11 0.15 0.15 0.16 0.16 0.19 0.21

NUMBER RMS MIN DRMS AVE DRMS QUALITY
 4 0.07 0.03 0.16 0

----- END ----- END -----

83/11/15 21/49 BEGIN-----BEGIN-----83/11/15 21/49

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AVXM SODX NF AVFM SDFM
831115 2149 20.55 44N12.39 114W 3.10 8.23 2.94 27 8 74 1 0.11 0.5 1.2 A AIA 1.30 10 45 0.00 0.09 0 0.0 0.0 10 2.9 0.1
SE OF ORIG = 0.043 3 ITERATIONS TOTAL

SE = 0.39 SE = 0.54
AZ = -23. AZ = -113.

HORIZONTAL VERTICAL
SE = 1.17 QUALITY = A

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----(--- MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK*TCOR-D-TTDB-TTCAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAX R FMP FMAX
ANPI 4.2 119 150 22.22 P 0 1.67 1.66 0.01 1.053 0.00-20.55 2.91-23.46 0.000 378 3
MSI 5.9 25 140 22.35 P+2 1.80 1.83 -0.03 0.263 23.89 3.34 3.20 0.14 0.000 378 3
B16 8.0 106 130 22.70IPC 2.15 2.06 0.09 1.053 24.08 3.53 3.61 -0.08 0.737 378 75 3.03
MSUI 9.1 82 126 22.76 PC 2.21 2.19 0.02 1.053 378 3
ASUI 9.6 11 124 22.90 PD 2.35 2.26 0.09 1.053 378 3
MSUI 10.3 69 121 22.92 PC0 2.37 2.36 0.01 1.053 378 3
617 11.2 334 118 22.84IPD 2.29 2.49 -0.20 1.053 24.44 3.89 4.35 -0.46 0.000 378 74 3.03
62 12.1 36 116 23.13IPC 2.58 2.62 -0.04 1.053 25.63 5.08 4.58 0.50 0.000 378 66 2.93
81GA 12.3 47 115 23.13 PC0 2.58 2.65 -0.07 1.053 0.00-20.55 4.64-25.19 0.000 378 66 2.93
815 12.3 255 115 23.30IPC 2.75 2.66 0.09 1.053 24.88 4.33 4.65 -0.32 0.000 378 63 2.83
813 13.4 172 112 23.48IPD 2.93 2.81 0.12 1.053 25.69 5.14 4.93 0.21 0.000 378 63 2.83
M-2 15.2 109 108 23.87 PC0 3.32 3.09 0.17 0.06 1.053 0.00-20.55 5.40-26.25 0.000 378 78 3.03
84 16.3 94 106 23.70IPC 3.15 3.24 -0.09 1.053 25.98 5.43 6.03 -0.60 0.000 378 3
RCI 17.5 264 104 23.88 PC0 3.33 3.44 -0.11 1.053 0.00-20.55 6.07-26.62 0.000 378 3
DSPI 17.6 86 103 23.98 PC0 3.43 3.47 -0.04 1.053 26.19 5.64 6.34 -0.70 0.000 378 3
MAI 18.6 117 102 24.30 PC0 3.75 3.63 0.12 1.053 0.00-20.55 7.12-28.19 0.000 378 3
M-1 21.4 135 99 25.03 PC0 4.48 4.07 0.30 -0.17 1.053 27.89 7.34 7.22 0.11 0.737 378 66 2.93
d1 21.8 359 98 24.51IPC 3.96 4.13 0.10 1.053 0.00-20.55 7.35-27.90 0.000 378 3
ORPI 22.2 159 98 24.85 PC0 4.30 4.20 -0.10 1.053 0.00-20.55 7.68-28.23 0.000 378 3
MIR 23.5 350 97 25.20 PD0 4.65 4.39 0.26 1.053 26.64 6.09 8.11 -2.02 0.000 378 80 3.13
8RCI 24.9 180 96 25.04 PC0 4.49 4.64 -0.15 1.053 28.59 8.04 8.23 -0.19 0.000 378 61 2.93
d12 25.3 182 96 25.22IPC 4.67 4.70 -0.03 1.053 0.00-20.55 9.69-30.24 0.000 378 70 3.03
LCRI 30.5 127 94 25.88 PC0 5.33 5.53 -0.20 1.053 378 3
d11 35.2 147 93 26.89IPC 6.34 6.31 0.03 1.053 378 3
85 38.3 125 93 27.34IPC 6.79 6.80 -0.01 1.053 378 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE M
AVE. OF ENO POINTS 0.22 0.59 0.71 0.75 0.78 0.84 1.00

NUMBER RMS MIN DRMS AVE DRMS QUALITY
27 0.11 0.28 0.74

-----END-----END-----END-----END-----

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
 33115 2334 9.07 44N 8.57 113W50.54 11.66 2.54 12 12 68 1 0.07 0.6 1.2 A AIA 1.06 10 10 0.00 0.05 0 0.0 0.0 10 2.5 0.1
 SE OF ORIG = 0.061
 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIM PSEC PRMK+TCOR-D-TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
 016 5.2 19 154 11.261PD 2.19 2.23 -0.04 1.053 13.36 4.29 3.90 0.39 0.000 379 42 2.53
 013 7.5 214 145 11.501PD 2.43 2.43 0.01 1.053 13.20 4.13 4.24 -0.11 0.000 379 38 2.43
 04 11.8 59 131 11.961PC 2.89 2.89 0.00 1.053 14.18 5.11 5.06 0.05 0.737 379 55 2.73
 02 16.9 4 119 12.711PD 3.64 3.57 0.07 1.053 15.71 6.64 6.25 0.39 0.000 379 36 2.43
 015 18.4 282 117 12.981PD 3.91 3.79 0.13 1.053 15.68 6.61 6.62 -0.01 0.000 379 41 2.53
 012 19.5 200 115 12.991PC 3.92 3.93 -0.01 1.053 15.72 6.65 6.88 -0.23 0.000 379 56 2.83
 017 20.3 327 114 13.031PD 3.96 4.06 -0.10 1.053 15.72 6.65 6.88 -0.23 0.000 379 44 2.63
 011 26.0 149 108 13.981P 4.91 4.93 -0.02 1.053 16.05 6.98 7.11 -0.12 0.737 379 38 2.53
 05 29.3 121 105 14.461PC 5.39 5.45 -0.05 1.053 18.26 9.19 9.53 -0.34 0.000 379 45 2.63
 01 29.5 348 105 14.601PC 5.53 5.48 0.05 1.053 379 38 2.53

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
 AVE. OF END POINTS 0.33 0.66 0.81 0.87 0.89 0.95 1.03

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
 AVE. OF END POINTS 0.33 0.66 0.81 0.87 0.89 0.95 1.03

NUMBER RMS MIN ORMS AVE ORMS QUALITY
 12 0.07 0.35 0.83 A

83/11/16 2/51 BEGIN-----BEGIN-----83/11/16 2/51

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
 03116 231 5.13 43N50.03 113W41.47 11.33 2.41 11 31 275 1 0.04 1.1 1.2 C BID 0.19 10 10 0.00 0.03 0 0.0 0.0 9 2.4 0.1
 SE OF ORIG = 0.099
 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIM PSEC PRMK+TCOR-D-TT08-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
 011 10.5 296 133 7.811PD 2.68 2.71 -0.03 1.028 9.55 4.42 4.74 -0.32 0.000 380 42 2.53
 05 12.2 12 129 8.081PD 2.95 2.91 0.04 1.028 14.09 8.96 5.09 3.87 0.000 380 40 2.53
 012 30.9 286 103 10.811PC 5.68 5.68 0.00 1.028 14.91 9.78 9.94 -0.16 0.000 380 49 2.73
 013 34.1 307 102 11.331PC 6.20 6.19 0.01 1.028 15.98 10.85 10.84 0.01 0.720 380 30 2.33
 94 35.3 339 101 11.401PC 6.27 6.38 -0.11 1.028 44.91 39.78 11.16 26.62 0.000 380 3
 016 38.2 326 100 12.031PC 6.90 6.85 0.05 1.028 15.94 10.81 11.99 -1.18 0.000 380 32 2.43
 02 48.9 334 97 13.651PC 8.52 8.56 -0.04 1.028 21.18 16.05 16.85 -0.80 0.000 380 30 2.33
 015 51.2 307 97 14.081P 6.95 8.94 0.01 1.028 23.30 18.17 18.94 -0.77 0.000 380 29 2.33
 017 55.5 323 96 14.781P 9.65 9.63 0.02 1.028 380 30 2.33
 01 62.9 333 95 16.001PC 10.87 10.82 0.05 1.028 380 30 2.43

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW Z N E SW NE
 AVE. OF END POINTS 0.11 0.13 0.16 0.18 0.22 0.23 0.24

HORIZONTAL	SE = 1.68	VERTICAL	SE = 1.68
A1 = -94.		A1 = -94.	
A2 = -94.		A2 = -94.	
		QUALITY = A	

[illegible]

(- STATION DATA -)	(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----)	VARI	(---- S-WAVE TRAVEL-TIME DATA ----)	(--- MAGNITUDE DATA ---)
DIST AZM AIN PSEC PRNK+TCOR-DATUM-TTCL-DLAY=	P-RS P-WT THIC SSEC SRMK TTOT TTYCL S-RSS S-MT ANX PR KMAG R FMP FMAG			
B11	2.6 324 165 17.01IPC	1.94 1.90	19.85 4.78 3.32 1.46 0.000	381 29 2.13
B5	14.0 47 121 18.11IPC	3.04 3.07	20.06 4.99 5.37 -0.38 0.000	381 29 2.23
R12	22.6 286 107 19.47IPC	4.40 4.34	22.57 7.50 7.60 -0.10 0.740	381 39 2.53
M13	26.5 314 104 19.92IP	4.85 4.94	23.78 8.71 8.65 0.06 0.740	381 22 2.03
M4	30.8 351 101 20.62IPO	5.55 5.64	24.54 9.67 9.87 -0.40 0.000	381 30 2.33
B16	32.2 336 100 20.92IP	5.85 5.86	25.01 1.058	381 3
B15	43.5 311 97 22.77EP	7.70 7.67	27.67 12.60 13.42 -0.82 0.000	381 20 2.03
B2	43.6 342 97 22.89IP	7.82 7.69	27.92 12.85 13.46 -0.61 0.000	381 3
B2	49.0 328 96 23.93EP 4	8.88 8.56	0.32 0.000	381 3
B17	57.4 338 95 24.98IP	9.91 9.91	0.00 1.058	381 25 2.23

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	SE	NW	E	N	Z	SW	NE
Ave. of end points	0.07	0.10	0.14	0.16	0.18	0.22	0.24

NUMBER	RMS	MIN DRMS	AVE DRMS	QUALITY
9	0.07	0.05	0.16	0

END
END
END
END

83/11/16 4/55 BEGIN-----BEGIN-----83/11/16 4/55

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AXIM SDXM MF AVFM SDFM
83116 455 31.35 44N14.76 11W 3.01 8.26 3.04 27 7 68 1 0.08 0.4 0.9 A AIA 0.39 10 46 0.00 0.06 0 0.0 0.0 10 3.0 0.1
SE OF ORIG = 0.040 3 ITERATIONS TOTAL

SE = 0.39 SE = 0.86 QUALITY = A
AZ = -81. AZ = 9.

HORIZONTAL VERTICAL
SE = 0.34 SE = 0.86 QUALITY = A
AZ = -81. AZ = 9.

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA (---)
STN DIST AIM AIM PSC PRMK+TCOR-D-TTOD-TTAL-DELT-EDLY= P-RES P-WT THIC SSC SRMK TTOD TTAL S-RES S-WT AMX PR XMAG R FMP FMAG
NWSI 2.6 68 161 32.88 P00 1.53 1.56 -0.03 1.053 0.00-31.35 2.73-34.07 0.000 302 3
BSU3 5.3 19 144 33.27 P00 1.92 1.77 0.16 1.053 0.00-31.35 3.48-34.83 0.000 302 3
ANPI 7.4 151 133 33.37 P 0 2.02 1.99 0.03 1.053 0.00-31.35 3.48-34.83 0.000 302 3
B17 7.6 319 132 33.24 P00 1.89 2.01 -0.12 1.053 34.80 3.45 3.52 -0.07 0.737 302 66 2.93
B2 8.9 52 127 33.53 P00 2.18 2.17 0.01 1.053 35.63 4.28 3.80 0.48 0.000 302 69 2.93
MSUI 9.4 109 125 33.59 PC 2.24 2.25 -0.01 1.053 0.00-31.35 3.96-35.31 0.000 302 3
NSUI 9.5 95 124 33.61 PC0 2.26 2.26 0.00 1.053 0.00-31.35 3.96-35.31 0.000 302 3
BIGA 9.7 65 124 33.56 PC0 2.21 2.28 -0.07 1.053 0.00-31.35 4.00-35.35 0.000 302 3
B16 10.0 131 122 33.71 PC 2.36 2.33 0.03 1.053 36.08 4.73 4.08 0.65 0.000 302 80 3.03
B15 14.2 238 110 34.37 PC 3.02 2.94 0.08 1.053 36.52 5.17 5.14 0.03 0.737 302 80 3.03
B4 17.0 109 105 34.69 PC 3.34 3.38 -0.03 1.053 37.29 5.94 5.91 0.03 0.000 302 95 3.23
M-2 17.0 123 105 34.87 PC0 3.52 3.38 0.17 -0.03 1.053 0.00-31.35 5.91-37.56 0.000 302 3
B1 17.4 359 104 34.66 PC 3.31 3.44 -0.13 1.053 37.51 6.16 6.02 0.15 0.000 302 82 3.13
DSPI 17.7 100 103 34.85 PC0 3.50 3.49 0.01 1.053 0.00-31.35 6.10-37.45 0.000 302 3
B13 17.7 174 103 34.95 PC 3.60 3.49 0.11 1.053 37.20 5.85 6.11 -0.26 0.000 302 79 3.03
RCI 18.6 250 102 34.88 PC0 3.53 3.62 -0.09 1.053 36.98 5.63 6.33 -0.70 0.000 302 3
MIR 19.2 348 101 35.30 PC0 3.95 3.71 0.24 1.053 0.00-31.35 6.50-37.85 0.000 302 3
MBAI 20.9 128 99 35.39 PC0 4.04 3.99 0.05 1.053 0.00-31.35 6.98-38.33 0.000 302 3
M-1 24.7 143 97 36.31 PC0 4.96 4.60 0.06 1.053 0.00-31.35 8.05-39.92 0.000 302 3
BRPI 26.4 163 96 36.35 PC2 5.00 4.87 0.13 0.263 0.00-31.35 8.53-39.88 0.000 302 3
ARCI 29.3 181 95 36.64 P00 5.29 5.35 -0.06 1.053 39.64 8.29 9.36 -1.07 0.000 302 91 3.23
B12 29.7 182 95 36.71 PC 5.36 5.41 -0.05 1.053 0.00-31.35 10.46-41.81 0.000 302 3
LCRI 33.2 133 94 37.26 P 0 5.91 5.98 -0.07 1.053 44.70 13.35 12.64 0.71 0.000 302 59 2.93
B11 38.9 150 93 38.25 PC 6.90 6.91 0.00 1.053 302 84 3.23
B5 40.9 150 93 38.48 PC 7.13 7.22 -0.09 1.053

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z ME NW SW E N SE
AVE. OF END POINTS 0.30 0.67 0.70 0.73 0.86 0.88 0.93

NUMBER RMS MIN DRMS AVE DRMS QUALITY
27 0.08 0.37 0.76 A

END-----END-----

83/11/16 5/58 BEGIN-----BEGIN-----83/11/16 5/58

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVMM SOXM NF AVPM SDFM
831116 558 5.23 44N20.82 114W10.17 9.23 2.39 12 16 228 1 0.11 2.6 2.7 C 81D 0.08 10 16 0.00 0.09 0 0.0 0.0 12 2.4 0.2
SE OF ORIG = 0.228 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(--- MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK+TCOR-D=TTOR-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTDB TTICAL S-RES S-WT ANX PR X MAG R FMP FMAG
817 7.2 141 138 7.191PD 1.96 2.08 -0.12 1.026 9.04 3.81 3.64 0.17 0.000 383 43 2.53
81 11.1 56 124 7.861PC 2.63 2.56 0.07 1.026 383 44 2.53
MSI 15.7 131 112 8.381P 3.15 3.22 -0.07 1.026 383 20 1.93
92 17.5 109 109 8.821PD 3.59 3.50 0.09 1.026 383 34 2.33
815 18.9 108 107 8.941PC 3.71 3.71 0.00 1.026 383 38 2.43
MSOI 22.4 122 103 51.15EPC4 45.92 4.27 41.65 0.000 11.92 6.69 6.50 0.20 0.718 383 23 2.03
816 24.7 136 101 9.721PC 4.49 4.62 -0.13 1.026 52.96 47.71 7.47 40.24 0.000 383 34 2.33
84 30.6 123 97 10.781PD 5.55 5.57 -0.01 1.026 383 43 2.63
813 31.0 159 97 10.751PC 5.52 5.63 -0.11 1.026 383 39 2.53
812 41.8 168 95 12.491PD 7.26 7.38 -0.11 1.026 383 41 2.63
911 53.5 147 93 14.66EP 9.43 9.28 0.16 1.026 383 37 2.53
85 55.4 133 93 14.91EP 9.68 9.59 0.09 1.026 22.21 16.98 16.78 0.20 0.000 383 40 2.63

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW N MW SE E ME Z
AVE. OF END POINTS 0.07 0.12 0.13 0.13 0.14 0.18 0.18

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.11 0.07 0.13 0

-----END-----END-----END-----END-----

83/11/16 10/ 2 -----BEGIN-----BEGIN-----83/11/16 10/ 2

HORIZONTAL SE = 1.18 SE = 1.52 VERTICAL SE = 4.11
AZ = -135. AZ = -45. QUALITY = 8

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERH ER2 G SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVFM SOFM
831116 10 2 24.11 44N 6.40 113W57.31 11.55 14 11 79 1 0.15 1.5 4.1 8 81A 0.68 10 27 0.00 0.10 0 0.0 0.0 0 0.0 0.0
SE DF ORIG = 0.224 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZIM AIN PSEC PMK+TCOR=0-TTOR-TTCAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XMAG R FMP FMAX
ARPI 6.0 178 131 26.50 P00 2.39 2.28 0.11 1.067 0.00-24.11 3.98-28.09 0.000
M-1 7.4 93 145 26.80 P00 2.69 2.40 0.30 -0.01 1.067 0.00-24.11 4.19-28.83 0.000
MBAI 10.8 55 133 26.94 P00 2.83 2.76 0.07 1.067 0.00-24.11 4.83-28.94 0.000
M-2 12.0 34 130 27.26 P00 3.15 2.91 0.17 0.07 1.067 0.00-24.11 5.09-29.50 0.000
BRCI 12.8 218 128 27.14 P00 3.03 3.01 0.02 1.067 28.64 4.53 5.26 -0.73 0.000
AMPI 13.4 342 127 27.17 P 0 3.06 3.08 -0.02 1.067 0.00-24.11 5.38-29.49 0.000
MSUI 16.1 5 121 27.43 P0 3.32 3.45 -0.14 1.067
LCRI 17.0 102 119 27.55 P00 3.44 3.57 -0.13 1.067
NSUI 18.5 6 116 27.81 P00 3.70 3.79 -0.10 1.067
DSPI 18.9 31 116 27.97 P00 3.86 3.85 0.01 1.067 29.75 5.64 6.74 -1.10 0.000
MMSI 20.8 345 113 28.11 P+1 4.00 4.14 -0.14 0.600 0.00-24.11 7.25-31.36 0.000
BIGA 23.3 3 110 28.57 P-1 4.46 4.50 -0.05 0.600 0.00-24.11 7.88-31.99 0.000
RCI 28.3 297 106 29.19 P 0 5.08 5.27 -0.19 1.067 0.00-24.11 9.23-33.34 0.000
MIR 39.7 343 100 31.60 PC0 7.49 7.09 0.40 1.067 0.00-24.11 12.41-36.52 0.000

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW Z N NE NW E SE
AVE. DF END POINTS 0.00 0.06 0.08 0.12 0.14 0.17 0.17

NUMBER RMS MIN RMS AVE DRMS QUALITY
10 0.15 -0.04 0.11 0

*** RUN AGAIN STARTING AT BEST NEARBY POINT ***

-----END-----END-----END-----END-----

83/11/16 16/44 BEGIN BEGIN BEGIN 83/11/16 16/44

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERH ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM MF AVFM SOFM
831116 1644 29.32 44N23.64 114W 4.96 4.27 3.07 23 12 214 1 0.15 1.5 1.1 C 010 0.09 10 36 0.00 0.12 0 0.0 0.0 10 3.1 0.1
SE OF ORIG = 0.126 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)
SYM DIST AZM AIN PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK YTOB YTCAL S-RES S-WT AMX PR XMAX R FMP FMAG
81 2.5 67 149 30.281PD 0.96 0.92 0.05 1.255 32.85 3.53 3.81 -0.27 0.000 386 93 3.13
817 11.0 193 109 31.631PC 2.31 2.18 0.14 1.255 34.16 4.84 4.89 -0.04 0.879 386 73 2.93
8503 12.3 159 107 32.00 PC 2.68 2.39 -0.05 1.255 0.00-29.32 5.37-34.69 0.000 386 85 3.13
82 14.6 139 104 32.061PC 2.74 2.79 0.16 1.255 0.00-29.32 5.55-34.87 0.000 386 3
816 16.2 162 103 32.54 PC0 3.22 3.07 -0.12 0.314 0.00-29.32 6.85-36.17 0.000 386 3
816A 16.8 137 102 32.37 P-2 3.05 3.17 0.00 0.706 0.00-29.32 7.68-37.00 0.000 386 78 3.03
8501 21.0 145 100 33.23 P+1 3.91 3.91 -0.02 1.255 38.20 8.88 8.33 0.56 0.000 386 69 2.93
816 25.2 156 98 33.931PD 4.61 4.65 -0.02 1.255 37.50 8.18 8.75 -0.56 0.000 386 3
815 25.8 201 98 34.051PC 4.73 4.76 -0.21 1.255 0.00-29.32 9.00-38.31 0.000 386 92 3.23
815 27.1 213 97 34.10 PD0 4.78 5.00 -0.13 1.255 0.00-29.32 9.86-39.48 0.000 386 68 2.93
84 28.8 140 97 34.481PD 5.16 5.30 -0.17 1.255 0.00-29.32 11.20-40.51 0.000 386 3
84 30.7 147 96 34.95 P-3 5.63 5.64 0.17 -0.42 0.314 0.00-29.32 12.77-42.61 0.000 386 3
813 34.6 173 96 35.461PC 6.14 6.29 -0.14 1.255 0.00-29.32 13.57-42.88 0.000 386 3
811 35.0 147 96 35.29 P+2 5.97 6.40 0.30 0.13 0.314 40.83 11.51 14.39 -2.87 0.000 386 88 3.23
811 40.1 154 65 37.08 PC0 7.76 7.30 0.09 1.255 -0.09 1.255 386 99 3.33
811 42.9 166 65 37.20 PD2 7.88 7.75 8.31 9.22 -0.15 1.255 386 62 2.93
811 45.8 177 65 37.63 P-0 8.31 9.22 8.19 8.28 0.16 1.255
812 46.2 178 65 37.511P 8.19 8.28
85 54.5 142 65 38.811PC 9.49 9.65
811 54.8 156 65 39.161PD 9.84 9.68

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N 2 NE SE NW SW E
AVE. OF END POINTS 0.05 0.06 0.09 0.09 0.11 0.16 0.16

NUMBER RMS MIN DRMS AVE DRMS QUALITY
18 0.15 0.01 0.11 D

END END END END END END

83/11/16 19/8 BEGIN-----BEGIN-----83/11/16 19/8

HORIZONTAL SE = 0.42 SE = 0.59 VERTICAL SE = 1.04
AZ = -15. AZ = -105. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM NF AVFM SOFM
831116 19 8 48.24 44N12.72 114W 2.60 9.58 2.53 12 11 76 1 0.07 0.6 1.0 A A1A 2.93 10 16 0.00 0.05 0 0.0 0.0 9 2.5 0.1
SE OF ORIG = 0.051 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
816 7.6 112 138 50.331PC 2.09 2.17 -0.04 1.053 52.15 3.91 3.80 0.11 0.737 387 43 2.53
817 11.0 330 126 50.801PC 2.56 2.57 -0.01 1.053 54.24 6.00 4.55 1.45 0.000 387 43 2.53
82 11.2 35 125 50.891PC 2.65 2.60 0.05 1.053 53.59 5.35 5.03 0.32 0.000 387 39 2.43
815 13.1 253 120 51.131PC 2.89 2.87 0.02 1.053 53.32 5.08 5.22 -0.14 0.737 387 39 2.43
813 13.9 175 118 51.321PC 3.08 2.98 0.10 1.053 53.52 5.28 5.67 -0.39 0.000 387 53 2.73
84 15.6 96 114 51.371PC 3.13 3.24 -0.11 1.053 56.11 7.87 8.47 -0.60 0.000 387 49 2.53
81 21.2 358 106 52.311PC 4.07 4.08 0.00 1.053 387 49 2.53
812 26.0 183 101 53.081PC 6.84 4.84 0.00 1.053 387 36 2.43
811 35.4 148 97 54.58EP 6.34 6.35 -0.01 1.053 387 36 2.43
85 38.1 126 96 55.091PC 6.85 6.79 0.07 1.053 387 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NE SW E NW SE N
AVE. OF END POINTS 0.36 0.72 0.76 0.77 0.85 0.89 1.05

NUMBER RMS MIN RMS AVE RMS QUALITY
12 0.07 0.46 0.81 A

348

83/11/16 19/59 BEGIN-----BEGIN-----83/11/16 19/59

HORIZONTAL SE = 0.53 SE = 0.72 VERTICAL SE = 1.76
AZ = -6. AZ = -96. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR MM AVXM SDXM NF AVFM SOFM
831116 1959 28.41 44N16.45 114W 2.71 9.34 2.68 11 9 79 1 0.07 0.7 1.8 A A1A 0.38 10 14 0.00 0.06 0 0.0 0.0 9 2.7 0.2
SE OF ORIG = 0.077 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIM PSEC PRMK+TCOR-O-TTDB-TTCAL-DELAY-EDLV= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR X MAG R FMP FMAG
817 8.3 319 134 30.501PC 2.09 2.22 -0.13 1.028 31.95 3.54 3.88 -0.34 0.000 388 46 2.53
92 8.9 48 131 30.691PC 2.28 2.50 -0.02 1.028 33.09 4.68 4.02 0.66 0.000 388 47 2.63
816 9.4 130 130 30.821PC 2.41 2.35 0.06 1.028 33.12 4.71 4.11 0.60 0.000 388 42 2.53
815 14.3 241 116 31.431PC 3.02 3.01 0.01 1.028 388 47 2.63
84 16.4 107 111 31.671PC 3.26 3.34 -0.08 1.028 388 74 3.03
813 17.1 176 110 31.911PC 3.50 3.44 0.06 1.028 388 43 2.53
91 18.0 358 109 32.131PC 3.72 3.58 0.14 1.028 388 3
812 29.1 182 98 33.681PC 5.27 5.34 -0.07 1.028 388 64 2.93
811 38.2 150 96 35.18EP 6.77 6.80 -0.03 1.028 388 40 2.53
85 40.2 130 95 35.531PC 7.12 7.12 0.00 1.028 388 69 3.03

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SW E NW SE N
AVE. OF END POINTS 0.10 0.14 0.16 0.17 0.18 0.21 0.22

83/11/16 21/32 BEGIN BEGIN BEGIN 83/11/16 21/32

HORIZONTAL SE = 0.72 SE = 1.45 VERTICAL SE = 2.34 QUALITY = A
AZ = -109. AZ = -19.

DATE ORIGIN LAT LONG DEPTH MAG MD O3 GAP M RMS ERM ER2 Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831116 2132 18.68 43M57.81 113M48.86 10.27 2.96 26 12 105 1 0.13 1.4 2.3 8 618 0.46 10 46 0.00 0.00 0 0.0 0.0 9 3.0 0.1
SE OF ORIG = 0.154 3 ITERATIONS TOTAL

(- S-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR=0-TT08-TTCLAT-DELT-EOLY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR IMAG R FMP FMPAG
#11 2.4 170 166 20.591PC 1.91 1.87 0.05 1.094 28.34 5.66 3.26 2.40 0.000 389 70 2.93
LCRI 10.2 32 131 21.13 PC0 2.45 2.55 -0.09 1.094 0.00-18.68 4.46-23.13 0.000 389 3
M-1 12.4 341 124 21.80 P00 3.12 2.84 0.30 -0.01 1.094 0.00-18.68 4.96-26.17 0.000 389 3
GRPI 12.7 299 124 21.60 P00 2.92 2.87 0.05 1.094 0.00-18.68 5.03-23.71 0.000 389 3
#5 13.3 68 122 21.671PC 2.99 2.95 0.04 1.094 0.00-18.68 6.51-25.19 0.000 389 75 3.03
MBAI 18.6 352 112 22.41 PC0 3.73 3.72 0.01 1.094 28.94 6.26 6.71 -0.45 0.000 389 3
ORCI 19.3 276 111 22.44 PC0 3.76 3.83 -0.07 1.094 25.60 6.92 6.84 0.08 0.766 389 73 3.03
#12 19.8 275 110 22.631PC 3.95 3.91 0.04 1.094 26.21 7.53 7.42 0.11 0.000 389 57 2.83
#13 22.0 309 107 22.881P 4.20 4.24 -0.04 1.094 28.28 9.60 8.52 1.08 0.000 389 79 3.13
M-2 22.6 348 107 23.20 PC0 4.52 4.34 0.17 -0.01 1.094 28.53 7.85 8.88 -1.02 0.000 389 3
#16 27.3 336 103 23.721PC 5.04 5.07 -0.03 1.094 28.28 9.60 9.19 0.41 0.000 389 3
OSPI 28.4 357 102 23.84 PC0 5.16 5.25 -0.07 0.615 30.13 11.45 11.41 0.04 0.000 389 3
NSUI 32.0 343 100 24.44 PC1 5.76 5.83 0.10 1.094 0.00-18.68 11.55-30.22 0.000 389 58 2.93
NWSI 36.3 333 98 25.30 P00 6.62 6.52 -0.03 1.094 29.86 11.18 12.06 -0.88 0.000 389 65 3.03
#18 36.8 344 98 25.25 PC0 6.57 6.60 0.07 1.094 29.96 11.28 12.18 -0.90 0.000 389 3
#2 38.7 342 97 25.641P 6.96 6.89 -0.19 1.094 32.26 13.58 13.59 -0.01 0.766 389 58 2.93
#15 39.1 308 97 25.451PC 6.77 6.96 0.13 0.273 -0.09 1.094 0.00-18.68 13.63-32.31 0.000 389 3
#5U3 40.2 335 97 25.95 P-2 7.27 7.14 7.08 7.77 -0.12 1.094 0.00-18.68 13.87-32.55 0.000 389 3
#17 44.1 327 96 26.36EPD 7.88 7.77 7.67 7.79 -0.14 0.615 32.66 13.98 15.94 -1.96 0.000 389 74 3.13
RCI 44.2 305 96 26.35 P00 7.97 7.79 7.78 7.93 -0.01 1.094 0.00-18.68 16.71-35.39 0.000 389 3
MCGI 45.1 340 96 26.46 P+1 7.78 7.93 9.10 9.11 0.53 1.094 0.00-18.68 16.71-35.39 0.000 389 3
#1 52.4 339 95 27.781P 9.10 9.11 10.08 9.55
MIR 55.1 335 95 28.76 P 0

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z SE SW N NE NW E
AVE. OF END POINTS 0.29 0.33 0.47 0.47 0.53 0.55 0.62

NUMBER RMS MIN DRMS AVE DRMS QUALITY
26 0.13 0.23 0.48

END END END END END END

03/11/17 3/38 BEGIN-----BEGIN-----03/11/17 3/38

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SQD AOJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
 031117 338 33.10 44N 8.25 113W56.91 10.86 2.48 12 9 68 1 0.05 0.4 0.7 A AIA 0.06 10 19 0.00 0.03 0 0.0 0.0 10 2.5 0.1
 SE OF ORIG = 0.036 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
 STN DIST AZM AIN PSEC PRMK+TCOR=0-TT08-TTCAL-DELAY=EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TT09 TT10 S-RES S-WT AMX PR XMAX R FMP FMAU
 016 5.5 354 151 35.321PC 2.14 2.14 0.00 1.026 37.42 4.24 4.25 -0.01 0.718 392 38 2.43
 013 8.5 229 138 35.671PC 2.49 2.43 0.06 1.026 37.60 4.42 4.43 -0.01 0.000 392 37 2.43
 FSD 9.5 54 135 35.70 P 2.52 2.53 -0.01 1.026 37.37 4.19 4.61 -0.42 0.000 392 46 2.63
 04 10.3 50 132 35.771PC 2.59 2.63 -0.04 1.026 39.85 6.67 6.29 0.38 0.000 392 36 2.43
 02 17.5 356 116 36.851PC 3.67 3.59 0.06 1.026 -0.02 1.026 39.94 6.76 7.13 -0.37 0.000 392 38 2.43
 012 19.8 207 112 37.101PC 3.92 3.94 -0.01 1.026 40.32 7.14 7.50 -0.36 0.000 392 35 2.43
 015 20.7 283 111 37.241PC 4.06 4.07 -0.10 1.026 41.69 8.51 8.87 -0.36 0.000 392 51 2.73
 017 22.1 324 109 37.371PC 4.19 4.29 -0.01 1.026 42.73 9.55 9.85 -0.30 0.000 392 38 2.53
 011 24.4 153 107 37.841PC 4.66 4.65 -0.01 1.026
 05 27.1 122 105 38.241PC 5.06 5.07 0.05 1.026
 01 30.7 344 102 38.861PC 5.68 5.63

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SE NW E NE Z SW
 AVE. OF END POINTS 0.08 0.20 0.20 0.22 0.22 0.23 0.28

NUMBER 6 RMS MIN DRMS AVE ORMS QUALITY
 0.05 0.02 0.20 0

83/11/17 8/ 6 BEGIN-----83/11/17 8/ 6

SE = 0.56 HORIZONTAL SE = 0.81 VERTICAL
AZ = -8. AZ = -98. SE = 1.48 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERH ERZ Q SOD ADJ IN NR AVR AAR NM AVRM SODM NF AVFM SDFM
831117 8 6 40.66 44N 9.19 113M59.04 12.20 2.95 29 8 73 1 0.16 0.8 1.5 8 81A 0.74 10 53 0.00 0.11 0 0.0 0.0 9 3.0 0.1
SE OF ORIG = 0.080 3 ITERATIONS TOTAL

(----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----(---
STN DIST AZM AIM PSEC PRMK+TCOR-D=TTOR-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XMAG R PMP PMAG
ANPI 4.3 335 159 42.50 P 0 1.84 2.25 -0.41 1.021 0.00-40.66 3.94-44.60 0.000 393 3
816 4.4 31 159 42.881PD 2.22 2.26 -0.04 1.021 44.64 3.98 3.96 0.03 0.715 393 66 2.93
813 8.2 206 144 43.331PD 2.67 2.56 0.11 1.021 45.30 4.64 4.48 0.17 0.000 393 60 2.83
M-2 9.1 83 140 43.57 PCO 2.91 2.65 0.09 1.021 0.00-40.66 4.64-45.59 0.000 393 3
NSUI 10.4 24 136 43.56 PCO 2.90 2.80 0.11 1.021 0.00-40.66 4.90-45.55 0.000 393 3
FSD 11.2 70 134 43.50 P 0 2.84 2.88 -0.03 1.021 45.75 5.09 5.04 0.06 0.000 393 3
MAI 11.4 103 133 43.73 PCO 3.07 2.91 0.16 1.021 0.00-40.66 5.09-45.75 0.000 393 3
NHSE 11.7 345 133 43.61 P00 2.95 2.94 0.01 1.021 45.14 4.48 5.14 -0.66 0.000 393 3
84 11.8 66 132 43.621P 2.96 2.96 0.01 1.021 45.87 5.21 5.18 0.04 0.000 393 3
M-1 13.4 134 128 44.16 P00 3.50 3.15 0.06 1.021 0.00-40.66 5.51-46.69 0.000 393 3
QSPI 14.2 59 127 43.94 P-4 3.28 3.24 0.04 0.000 0.00-40.66 5.67-46.33 0.000 393 3
81GA 14.8 14 125 44.11 PCO 3.45 3.32 0.14 1.021 0.00-40.66 5.80-46.46 0.000 393 3
88PI 15.0 170 125 44.10 PCO 3.44 3.37 0.08 1.021 0.00-40.66 5.89-46.55 0.000 393 3
85U3 15.7 347 123 44.37 PD 3.71 3.45 0.26 1.021 46.49 5.83 6.85 -1.02 0.000 393 3
82 15.8 6 123 44.241P 3.60 3.47 0.13 1.021 0.00-40.66 7.04-47.69 0.000 393 3
815 17.6 279 120 44.251PD 3.59 3.71 -0.11 1.021 47.80 7.14 7.17 -0.03 0.715 393 70 3.03
817 19.0 327 118 44.501PD 3.84 3.91 -0.07 1.021 0.00-40.66 7.45-48.10 0.000 393 75 3.03
98CI 19.8 196 116 44.62 PCO 3.96 4.02 -0.06 1.021 0.00-40.66 7.56-48.22 0.000 393 3
312 20.3 198 116 44.701PC 4.04 4.10 -0.06 1.021 0.00-40.66 7.78-48.43 0.000 393 73 3.03
MCOI 21.4 355 114 44.78 PCO 4.12 4.26 -0.13 1.021 0.00-40.66 7.92-48.58 0.000 393 3
CGI 21.9 36 114 44.54 PCO 3.88 4.32 -0.44 1.021 47.96 7.30 9.04 -1.73 0.000 393 60 2.93
LCRI 22.6 123 113 45.04 P 0 4.38 4.44 -0.06 1.021 49.89 9.23 9.29 -0.06 0.000 393 68 3.03
RCI 23.1 280 112 45.17 P 0 4.51 4.53 -0.01 1.021 47.86 7.20 9.87 -2.68 0.000 393 74 3.13
311 27.3 149 108 45.891PD 5.23 5.16 0.07 1.021 0.00-40.66 9.90-50.56 0.000 393 3
81 28.3 349 107 46.011P 5.35 5.31 0.04 1.021 0.00-40.66 11.00-51.65 0.000 393 3
85 30.5 122 106 46.281PD 5.62 5.65 -0.03 1.021 0.00-40.66 11.00-51.65 0.000 393 3
MIR 30.5 342 106 46.65 P00 5.99 5.66 0.34 1.021 0.00-40.66 11.00-51.65 0.000 393 3
GCI 34.5 14 103 46.78 P 0 6.12 6.28 -0.16 1.021 0.00-40.66 11.00-51.65 0.000 393 3

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E NE SW SE NW N
AVE. OF END POINTS 0.27 0.61 0.61 0.62 0.67 0.71 0.91

NUMBER RMS MIN DRMS AVE DRMS QUALITY
29 0.16 0.25 0.66

END-----END-----

DIAGONALS IN ORDER OF STRENGTH									
AVE. OF END POINTS									
NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY	SE	SW	N
29	0.16	0.25	0.61	0.61	0.62	0.67	0.71	0.91	

END-----END-----END-----

SE = 0.43
AZ = -60.
HORIZONTAL

(- STATION DATA -)		P-WAVE TRAVEL-TIME DATA				S-WAVE TRAVEL-TIME DATA				MAGNITUDE DATA			
SYM	DIST	AZM	P-RES	P-WAVE TRAVEL-TIME DATA	S-RES	S-WAVE TRAVEL-TIME DATA	PR	AMG	R	PR	AMG	R	
0811	11-2	133	136	0.51PC	-0.02	1.028	2.49	4.83	5.16	-0.33	0.000	394	42
0812	12.5	254	132	0.781PC	0.01	1.028	3.33	5.67	5.44	0.23	0.000	394	19
0813	12.7	312	132	0.841PC	0.03	1.028	2.54	4.88	5.48	-0.60	0.000	394	36
0816	19.9	350	118	1.721PC	-0.03	1.028	3.97	6.31	7.16	-0.85	0.000	394	47
0815	20.0	91	118	1.801PD	0.03	1.028	3.10	5.44	7.19	-1.75	0.000	394	47
0814	21.3	13	116	1.861PD	-0.08	1.028						394	41
0815	29.8	309	108	3.171PC	-0.06	1.028						394	39
0812	31.9	353	106	3.611PC	0.06	1.028						394	38
0817	35.7	333	104	4.101PC	-0.05	1.028						394	36
0818	45.1	345	100	5.721P	0.07	1.028						394	39

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	NW	SE	NE	N	E	SW	S
AVE. OF END POINTS	0.11	0.11	0.14	0.14	0.18	0.22	0.24

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
7	0.05	0.07	0.15			0

END
END
END
END

83/11/17 9/ 3 BEGIN BEGIN BEGIN 83/11/17 9/ 3

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ O SOD ADJ IN NR AVR AIR NM AVXM SODM NF AVFM SDFM
831117 9 3 21.35 44N16.32 113W45.01 0.72 2.25 15 12 194 1 0.13 1.5 99.0 0 CID 0.48 10 29 0.00 0.11 0 0.0 0.0 16 2.2 0.2
SE OF ORIG = 10.000 4 ITERATIONS TOTAL

SE = 0.81 SE = 1.52 VERTICAL
AZ = -24. AZ = -114. SE = 99.00 QUALITY = 0

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(---- MAGNITUDE DATA ----)

STN	DIST	AZM	AIM	PSEC	PRMK	TCOR	O-TT08	TTICAL	EDLY	P-RES	P-WT	THIC	SSEC	SRMK	TT08	TTICAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	PMAG
DSPI	8.0	228	58	23.081PD	1.73	1.72				0.01	1.000				26.93	5.58	3.85	1.73	0.000		395	30	2.13	
84	11.5	223	58	23.611PD	2.26	2.20				0.06	1.000									395	50	2.63		
FSD	12.5	221	58	23.70 P	2.35	2.37				-0.02	1.000									395		3		
MSUI	14.9	256	58	24.111PD	2.76	2.81				-0.05	1.000				26.21	4.86	4.92	-0.06	0.000		395	27	2.13	
82	17.1	279	58	24.461PC	3.11	3.20				-0.09	1.000				27.61	6.26	5.61	0.66	0.000		395	40	2.43	
WBAI	17.6	206	58	24.591PD	3.24	3.29				-0.05	1.000									395	28	2.13		
816	18.9	240	58	24.721PD	3.37	3.53				-0.16	1.000				26.44	5.09	6.17	-1.08	0.000		395	40	2.43	
NMSI	21.7	265	58	25.161PD	3.81	4.02				-0.21	1.000									395	27	2.13		
GCI	22.9	333	58	25.651PD	4.30	4.25				0.05	1.000				29.45	8.10	7.43	0.67	0.000		395	28	2.13	
81	28.3	301	58	26.001PC4	4.65	5.20				-0.55	0.000				33.41	12.86	9.10	2.96	0.000		395	40	2.43	
817	29.1	276	58	26.851PD	5.50	5.34				0.16	1.000				30.33	8.98	9.35	-0.37	0.000		395	27	2.13	
85	30.2	166	58	26.701PD	5.35	5.54				-0.19	1.000				30.30	8.95	9.70	-0.74	0.000		395	38	2.43	
813	30.3	227	58	26.841PC	5.49	5.56				-0.07	1.000				31.28	9.93	9.73	0.20	0.000		395	29	2.23	
MIR	32.2	299	58	27.851PD4	6.50	5.91				0.59	0.000									395	30	2.23		
811	37.0	187	58	28.311PD	6.96	6.76				0.21	1.000				34.01	12.66	11.82	0.84	0.000		395	28	2.23	
815	37.5	254	58	28.351PC	7.00	6.85				0.15	1.000				31.45	10.10	11.99	-1.89	0.000		395	29	2.23	
812	41.0	217	58	29.021PD	7.67	7.47				0.20	1.000				32.90	11.55	13.08	-1.53	0.000		395	41	2.53	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E N SW NE NW SE
AVE. OF END POINTS 0.05 0.06 0.09 0.11 0.12 0.13 0.17

NUMBER RMS MIN RMS AVE RMS QUALITY
6 0.13 0.02 0.11 0

END END END END

83/11/17-----9/ 9-----BEGIN-----BEGIN-----83/11/17-----9/ 9

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SDXM NF AVPM SDFM
831117 9 9 58.90 44N16.33 114W 3.73 8.52 2.71 13 10 89 1 0.05 0.4 0.9 A AIA 0.06 10 10 0.00 0.05 0 0.0 0.0 10 2.7 0.1
SE OF ORIG = 0.039 6 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)

STN	DIST	AZM	AIN	PSEC	PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY=	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTCAL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	F MAG
017	7.6	328	133	0.871PC	1.97	2.05	-0.08	1.048	3.07	4.17	3.59	0.58	0.000	895	50	2.68				
02	10.1	52	123	1.351PC	2.45	2.37	0.09	1.048	4.22	5.32	4.14	1.18	0.000	895	54	2.78				
016	10.3	124	123	1.291PC	2.39	2.39	0.00	1.048	3.11	4.21	4.19	0.03	0.734	895	52	2.78				
015	13.0	239	115	1.741PC	2.84	2.77	0.07	1.048	3.66	4.76	4.85	-0.09	0.000	895	48	2.68				
013	17.1	171	106	2.351PC	3.45	3.38	0.07	1.048	4.73	5.83	5.92	-0.09	0.734	895	44	2.58				
F50	17.7	109	105	2.35 P	3.45	3.49	-0.04	1.048	4.95	6.05	6.11	-0.05	0.000	895	68	2.98				
01	18.2	2	104	2.451PC	3.55	3.58	-0.02	1.048	5.25	6.35	6.26	0.10	0.000	895	47	2.68				
012	28.9	180	96	4.141PC	5.24	5.29	-0.04	1.048						895	63	2.98				
011	38.7	148	94	5.79EPC	6.89	6.88	0.02	1.048						895	45	2.68				
05	41.1	129	93	6.181PC	7.28	7.26	0.02	1.048						895	63	2.98				

33/11/17 11/39 -----BEGIN-----BEGIN-----83/11/17 11/39

HORIZONTAL SE = 0.44 SE = 0.58 VERTICAL SE = 1.66 QUALITY = A
AZ = 0. AZ = -90.

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVIM SOXM NF AVFM SDFM
33117 1139 18.89 44N14.87 114W 3.46 8.17 2.02 10 11 85 1 0.06 0.6 1.7 A A1A 0.24 10 15 0.00 0.05 0 0.0 0.0 10 2.0 0.1
SE OF ORIG = 0.062 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMKATCOR-O-TT0B-TTCAL-DELAY-EOLV= P-RES P-WT THIC SSEC SRMK TT0B TTICAL S-RES S-WT AMX PR XMAG R FMP FMAG
017 7.0 321 134 20.731PD 1.84 1.94 -0.10 1.031 22.11 3.22 3.40 -0.18 0.000 397 23 1.93
02 9.2 56 125 21.151PC 2.26 2.20 0.06 1.031 23.35 4.46 3.86 0.61 0.000 397 24 2.03
016 10.6 130 120 21.341PD 2.45 2.40 0.05 1.031 23.54 4.65 4.21 0.45 0.000 397 22 1.93
015 13.8 236 111 21.811PC 2.92 2.88 0.05 1.031 24.68 5.79 6.07 -0.28 0.000 397 22 1.93
01 17.2 1 104 22.331PD 3.44 3.40 0.04 1.031 25.05 6.16 6.17 -0.01 0.722 397 25 2.03
04 17.6 109 103 22.271PC 3.38 3.47 -0.09 1.031 397 30 2.23
013 18.0 173 102 22.471PC 3.58 3.53 -0.05 1.031 397 19 1.83
012 29.9 180 94 24.281PC 5.39 5.44 -0.05 1.031 397 29 2.23
011 39.4 150 93 26.29EP 4 7.40 6.98 0.42 0.000 397 20 1.93
05 41.5 130 92 26.20EP 7.31 7.32 0.00 1.031 397 28 2.23

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E NW SE NE SW Z M
AVE. OF END POINTS 0.04 0.13 0.15 0.17 0.20 0.20 0.24

NUMBER RMS MIN DRMS AVE DRMS QUALITY
4 0.06 0.03 0.16 D

83/11/17 12/20 BEGIN-----BEGIN-----83/11/17 12/20

HORIZONTAL SE = 2.34 SE = 6.23 VERTICAL SE = 2.03 QUALITY = C
AZ = -101. AZ = -11.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NM AVIM SDIM MF AVEM SOF4
831117 1220 10.66 44N26.10 114W 5.15 7.21 2.22 11 18 307 1 0.14 6.2 2.0 0 010 0.07 10 13 0.00 0.12 0 0.0 0.0 10 2.2 0.1
SE OF ORIG = 0.511 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (----- MAGNITUDE DATA -----)
STN DIST AZM AIM PSEC PRMK+TCOR-O-TT08-TTICAL-DELAY-EOLY- P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT AMX PR XMAX R FMP FMAG
81 4.4 145 144 12.251PD 1.59 1.54 0.04 1.028 13.35 2.69 2.70 -0.01 0.720 399 40 2.43
817 15.5 108 97 13.621PC 2.96 3.09 -0.13 1.028 15.72 5.06 5.40 -0.34 0.000 399 29 2.23
82 18.4 148 93 14.151EP 3.49 3.57 -0.08 1.028 20.00 9.34 9.38 -0.04 0.000 399 27 2.13
816 29.5 159 91 15.901PD 5.24 5.36 -0.12 1.028 399 25 2.13
815 30.0 198 91 16.071PD 5.41 5.44 -0.04 1.028 399 20 2.23
84 32.5 144 91 16.371EP 5.71 5.86 -0.15 1.028 399 33 2.33
813 38.9 173 90 17.451EP 6.79 6.90 -0.11 1.028 399 25 2.13
812 50.7 178 90 19.731PD 9.07 8.81 0.26 1.028 399 39 2.53
85 58.3 144 90 20.781EP 10.12 10.05 0.07 1.028 399 25 2.23
811 59.1 158 90 21.101EP 10.44 10.17 0.27 1.028 399 24 2.13

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z N NW SE NE SW E
AVE. OF END POINTS 0.07 0.08 0.12 0.13 0.13 0.15 0.16

NUMBER 9 RMS MIN DRMS AVE DRMS QUALITY
0.14 0.04 0.13 0

83/11/17 13/21 BEGIN BEGIN 83/11/17 13/21

HORIZONTAL SE = 1.49 VERTICAL SE = 2.55 QUALITY = 8
AZ = -100. AZ = -10.

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SDD ADJ IN NR AVR AAR NM AVXM SDDM NF AVFM SDFM
83117 1321 42.86 44N24.63 113M59.65 7.50 3.05 28 9 148 1 0.15 1.5 2.5 C 81C 0.16 10 48 0.00 0.10 0 0.0 0.0 10 3.1 0.1
SE OF ORIG = 0.133 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STN DIST AZM AIN PSEC PRMK-TCOR-D-TT08-TTAL-DELAY-EOLT= P-RES P-WT THIC SSEC SRMK TT08 TTAL S-RES S-WT AMX PR XMAG R PMP PMAG
91 4.9 260 142 44.701PC 1.84 1.63 0.21 1.035 45.30 2.44 2.85 -0.42 0.000 400 92 3.14
MCGI 7.3 187 129 44.81 PC0 1.95 1.90 0.04 1.035 0.00-42.86 3.33-46.19 0.000 400 4
HIR 8.6 273 123 44.45 PC0 1.59 2.07 -0.48 1.035 0.00-42.86 3.62-46.49 0.000 400 4
GCI 10.2 61 117 45.28 PC0 2.42 2.28 0.13 1.035 0.00-42.86 3.99-46.86 0.000 400 4
82 13.1 169 108 45.571PC 2.71 2.72 -0.02 1.035 47.59 4.73 4.76 -0.04 0.000 400 80 3.04
83 13.6 192 106 45.76 PC 2.90 2.81 0.09 1.035 0.00-42.86 5.26-48.13 0.000 400 4
84 14.9 163 103 45.83 PC0 2.97 3.01 -0.04 1.035 0.00-42.86 5.98-48.84 0.000 400 76 3.04
817 15.7 217 101 46.111PC 3.25 3.14 0.11 1.035 0.00-42.86 6.00-48.87 0.000 400 4
NMSI 17.4 187 97 46.32 PC0 3.46 3.42 0.04 1.035 0.00-42.86 6.60-49.47 0.000 400 4
CGI 17.5 129 97 46.33 PC0 3.47 3.43 -0.07 1.035 0.00-42.86 8.03-50.90 0.000 400 4
MSUI 19.7 165 95 46.57 PC0 3.71 3.77 -0.11 1.035 0.00-42.86 8.08-50.95 0.000 400 77 3.04
ANPI 24.7 182 93 47.34 P 0 4.48 4.59 -0.04 1.035 50.56 7.70 8.11 -0.42 0.000 400 95 3.24
DSPI 24.9 149 93 47.44 PC0 4.58 4.62 0.07 1.035 51.20 8.34 8.75 -0.41 0.000 400 4
416 25.0 173 93 47.431PC 4.57 4.64 -0.15 1.035 0.00-42.86 9.32-52.48 0.000 400 4
54 26.4 154 92 47.591PC 4.73 4.88 0.11 1.035 0.00-42.86 10.37-53.23 0.000 400 71 3.04
FSO 27.2 156 92 47.90 P 0 5.04 5.00 -0.10 1.035 0.00-42.86 10.53-53.39 0.000 400 59 2.94
M-2 29.2 160 92 48.26 PC0 5.40 5.33 0.17 0.02 1.035 0.00-42.86 12.19-55.58 0.000 400 4
815 30.6 213 92 48.531PC 5.67 5.56 0.11 1.035 0.00-42.86 13.40-56.26 0.000 400 4
RCI 32.9 222 92 49.09 P 0 6.23 5.92 0.02 1.035 0.00-42.86 13.94-56.81 0.000 400 4
MBA1 33.4 159 91 48.90 PC0 6.04 6.02 0.02 1.035 56.42 13.56 14.60 -1.05 0.000 400 79 3.14
813 36.0 184 91 49.321PC 6.46 6.44 0.02 1.035 -0.10 1.035 0.00-42.86 15.60-58.81 0.000 400 80 3.24
M-1 39.3 165 91 50.25 P 3 7.39 6.97 0.30 0.12 0.065 0.00-42.86 16.60-60.81 0.000 400 59 2.94
3RPI 43.6 176 91 50.50 PC0 7.64 7.66 -0.02 1.035 0.00-42.86 17.19-61.81 0.000 400 4
LCRI 45.5 154 91 50.74 PC0 7.88 7.97 -0.09 1.035 0.00-42.86 18.19-62.81 0.000 400 4
8RCI 47.8 186 91 51.12 P+0 8.26 8.34 -0.09 1.035 56.42 13.56 14.60 -1.05 0.000 400 79 3.14
812 48.3 186 91 51.211PC 8.41 8.42 -0.09 1.035 -0.10 1.035 0.00-42.86 15.60-58.81 0.000 400 80 3.24
85 52.0 149 91 51.801PC 8.94 9.03 -0.10 1.035 0.00-42.86 16.60-60.81 0.000 400 59 2.94
811 54.1 164 91 52.491PC 9.63 9.37 0.25 1.035 0.00-42.86 17.19-61.81 0.000 400 59 2.94

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH M NW SE E NE SW Z
AVE. OF END POINTS 0.03 0.08 0.09 0.09 0.09 0.10 0.11
NUMBER RMS MIN RMS AVE RMS QUALITY
23 0.15 0.02 0.08 QUALITY D

END END END END END END END

33/11/17	17/59	BEGIN	BEGIN	83/11/17	17/59
----------	-------	-------	-------	----------	-------

SE =	0.48	SE =	0.57
AZ =	36.	AZ =	-54.
HORIZONTAL		VERTICAL	
		SE =	1.48
		QUALITY =	A

```

DATE          ORIGIN      LAT      LONG      DEPTH
931117 1759 11.84 44N13.53 114W 3.20  9.70
SE OF ORIG = 0.073      6 ITERATIONS TOTAL
MAG ND Q3 GAP M RMS      ERN      ERZ Q SQD ADJ IN NR  AVR  AAR  MW  AXVM  SDVM  NF  AFVM  SOFM
2.50 13 11 83 1 0.07 0.6      1.5 A AIA 0.05 10 15 0.00 0.06 0 0.0 0.0 10 2.5 0.1

```

C- STATION DATA --)		P-WAVE TRAVEL-TIME DATA		VARI (----- S-WAVE TRAVEL-TIME DATA ----)		MAGNITUDE DATA ---)														
SYN	DIST	AIN	PSEC	PRMK	TCOR	Q-TT	TTCL	THIC	SSEC	SRMK	TTCL	TTCL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
016	8.9	119	133	14.15	IPC	2.31	2.34	-0.03	1.048	16.20	4.36	4.09	0.27	0.000	901	42	2.59			
017	9.3	329	132	14.10	IPC	2.26	2.38	-0.11	1.048	16.00	4.16	4.16	0.00	0.734	901	43	2.59			
02	10.6	43	127	14.49	IPC	2.65	2.54	0.12	1.048						901	37	2.49			
015	12.9	246	121	14.65	IPC	2.81	2.85	-0.04	1.048	16.90	5.06	4.99	0.07	0.734	901	44	2.59			
013	15.5	173	115	15.12	IPC	3.28	3.21	0.07	1.048	17.65	5.81	5.92	-0.11	0.000	901	32	2.39			
014	16.6	105	113	15.10	P	3.26	3.38	-0.12	1.048						901	9				
04	16.7	101	113	15.22	IPC	3.38	3.40	-0.02	1.048						901	52	2.79			
01	19.7	360	108	15.74	IPC	3.90	3.86	0.05	1.048						901	44	2.69			
012	27.4	181	101	16.84	IPC	5.00	5.08	-0.07	1.048						901	46	2.69			
011	37.1	148	97	18.51	IPC	6.67	6.62	0.05	1.048						901	31	2.39			
015	39.6	128	96	18.92	IPC	7.08	7.04	0.05	1.048						901	46	2.79			

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	NW	SW	N	SE	E
AVE. OF END POINTS	0.08	0.11	0.13	0.16	0.18
					0.24

NUMBER	RMS	MIN	DRMS	AVE	DRMS	QUALITY
\$	0.07		0.02		0.15	D

END
END
END
END

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831117 1953 13.27 44N14.58 114W 1.63 8.43 2.65 9 90 1 0.06 0.7 1.7 A A1A 0.26 10 14 0.00 0.05 0 0.0 0.0 7 2.7 0.1
SE OF ORIG = 0.059 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK*TCOR=0-TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTON TTCL S-RES S-WT AMX PR XMAX R FMP FMAG
82 7.8 42 132 15.32IPC 2.05 2.06 -0.01 1.034 17.62 4.35 3.60 0.75 0.000 403 46 2.54
816 8.5 137 129 15.39IPC 2.12 2.14 -0.02 1.034 16.79 3.52 3.75 -0.23 0.000 403 53 2.74
817 9.1 311 127 15.55IPC 2.28 2.22 0.06 1.034 17.85 4.58 3.88 0.70 0.000 403 48 2.64
84 15.1 110 109 15.28IPC 4 2.01 3.09 -1.08 0.000 403 4
815 15.6 243 108 16.34IPC 3.07 3.17 -0.10 1.034 18.39 5.12 5.54 -0.42 0.000 403 51 2.74
81 17.9 353 104 16.73IPC 3.46 3.52 -0.06 1.034 19.48 6.21 6.16 0.05 0.724 403 64 2.94
812 29.5 185 95 18.76IPC 5.49 5.38 0.11 1.034 403 4
811 37.7 152 93 19.96IPC 6.69 6.71 -0.02 1.034 403 40 2.54
85 39.2 132 93 20.23IPC 6.96 6.96 0.00 1.034 403 50 2.74

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH E Z NE NW SW SE M
AVE. OF END POINTS 0.15 0.16 0.18 0.19 0.20 0.20 0.35

NUMBER 4
RMS MIN DRMS AVE DRMS QUALITY 0
0.06 0.08 0.21

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SOXM NF AVFM SOFM
831117 2242 55.28 44N18.28 114W 3.38 10.42 2.35 12 11 101 1 0.08 1.0 1.4 B A1B 0.07 10 17 0.00 0.06 0 0.0 0.0 10 2.3 0.1
SE OF ORIG = 0.096 4 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIN PSEC PRMK*TCOR=0-TTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTON TTCL S-RES S-WT AMX PR XMAX R FMP FMAG
817 4.6 260 154 57.28IPC 2.00 2.01 -0.01 1.053 58.88 3.60 3.52 0.08 0.737 404 32 2.24
82 7.6 98 141 57.55IPC 2.27 2.28 0.00 1.053 59.65 4.37 3.98 0.39 0.000 404 32 2.24
81 10.9 1 129 57.92IPC 2.64 2.65 -0.01 1.053 59.35 4.07 4.64 -0.57 0.000 404 39 2.44
816 15.4 148 118 58.49IPC 3.21 3.25 -0.04 1.053 61.21 5.93 5.70 0.23 0.000 404 33 2.34
815 18.2 219 113 58.94IPC 3.66 3.67 -0.01 1.053 61.59 6.31 6.43 -0.12 0.737 404 33 2.34
84 20.4 126 110 59.27IPC 3.99 4.01 -0.02 1.053 63.01 7.73 8.05 -0.32 0.000 404 46 2.64
813 24.3 175 106 59.46IPC 4.58 4.60 -0.02 1.053 63.01 7.73 8.05 -0.32 0.000 404 30 2.24
812 36.2 181 99 61.88IPC 6.60 6.50 0.10 1.053 404 37 2.54
811 44.9 154 96 63.35IPC 8.07 7.90 0.17 1.053 404 31 2.34
85 45.7 136 96 63.18IPC 7.90 8.02 -0.12 1.053 69.15 13.87 14.04 -0.17 0.000 404 31 2.34

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE Z NW NE
AVE. OF END POINTS 0.15 0.16 0.16 0.17 0.17 0.22 0.24

83/11/17 23/27 BEGIN BEGIN 83/11/17 23/27

HORIZONTAL SE = 0.46 SE = 1.52 VERTICAL SE = 1.05
AZ = -8. AZ = -98. QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SOD ADJ IN MR AVR AAR NM AVXM SDM NF AVFM SCFM
#31117 2327 23.93 44N11.59 114W18.68 10.27 2.87 26 24 247 1 0.06 1.5 1.0 C 0.0 0.78 10 48 0.00 0.07 0 0.0 0.0 10 2.9 0.1
SE OF ORIG = 0.112 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZM AIM PSEC PRMK+TCOR-D=TTOR-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTCAL S-RES S-WT AMX PR XMAX R FMP FMAX
RC1 3.4 96 160 25.77 P04 1.84 1.91 -0.07 0.000 0.00-23.93 3.35-27.28 0.000 405 53 2.74
315 9.0 101 135 26.32 IPC 2.39 2.41 -0.02 1.012 28.20 4.27 4.22 0.03 0.708 405 58 2.84
317 19.7 54 110 27.78 IPC 3.85 3.88 -0.04 1.012 30.65 6.72 8.03 -1.31 0.000 405 4
NM51 24.2 74 105 28.41 PC0 4.48 4.59 -0.11 1.012 29.75 5.82 8.07 -2.25 0.000 405 4
AMPI 24.4 91 105 28.45 P 0 4.52 4.61 -0.09 1.012 0.00-23.93 8.26-32.19 0.000 405 4
SC51 25.1 64 104 28.60 PC0 4.67 4.72 -0.05 1.012 33.19 9.26 8.37 0.88 0.000 405 54 2.84
9SU3 25.1 64 104 28.70 PC 4.77 4.72 0.07 1.012 31.74 7.81 9.21 -1.41 0.000 405 62 2.94
013 25.5 117 104 28.79 IPD 4.86 4.79 -0.06 1.012 0.00-23.93 9.55-33.48 0.000 405 4
016 28.5 91 102 29.14 IPC 5.21 5.27 0.02 1.012 33.16 9.23 9.56 -0.34 0.000 405 4
MCG1 29.7 55 101 29.37 PC0 5.44 5.46 -0.02 1.012 -2.96M0.000 32.89 8.96 9.86 -0.90 0.000 405 50 2.74
MCR1 29.7 34 101 29.56 P00 5.63 5.47 0.01 1.012 -0.01 1.012 405 63 2.94
WSU1 29.9 85 101 26.46 PC 2.53 5.49 0.07 1.012 0.00-23.93 10.00-33.93 0.000 405 74 3.04
82 30.1 68 101 29.53 IPC 5.60 5.53 -0.08 1.012 0.00-23.93 10.00-33.93 0.000 405 4
NSU1 30.8 80 100 29.57 P+0 5.64 5.63 0.01 1.012 34.30 10.37 10.93 -0.56 0.000 405 4
01 31.0 41 100 29.59 IPC 5.66 5.67 -0.01 1.012 0.00-23.93 11.13-35.36 0.000 405 83 3.24
012 31.1 140 100 29.54 IP 5.61 5.69 0.00 1.012 0.00-23.93 11.86-35.79 0.000 405 4
ARCI 31.2 139 100 24.51 PC4 0.58 5.70 -5.12 0.000 0.00-23.93 11.99-36.45 0.000 405 4
01GA 31.3 72 100 29.62 PC0 5.69 5.71 0.00 1.012 35.44 11.51 12.77 -1.26 0.000 405 4
AM51 32.7 27 100 29.87 PC 5.94 5.94 0.00 1.012 0.00-23.93 13.83-37.76 0.000 405 4
0RPI 34.6 124 99 30.10 PC0 6.17 6.25 -0.06 1.012 0.00-23.93 14.74-38.67 0.000 405 4
M-2 35.3 95 98 30.54 P-0 6.61 6.36 0.08 1.012 0.00-23.93 14.74-38.67 0.000 405 56 2.94
84 37.0 89 98 30.41 EP 6.48 6.62 -0.14 1.012 0.00-23.93 14.74-38.67 0.000 405 57 2.94
M0A1 37.9 101 98 30.82 P+0 6.89 6.78 0.11 1.012 0.00-23.93 14.74-38.67 0.000 405 4
M-1 38.4 111 98 31.61 PC0 7.68 6.85 0.00-23.93 14.74-38.67 0.000 405 4
C01 41.2 71 97 31.34 PC0 7.41 7.30 0.11 1.012 0.00-23.93 14.74-38.67 0.000 405 4
GCI 44.9 50 96 31.68 P00 7.75 7.90 -0.15 1.012 0.00-23.93 14.74-38.67 0.000 405 4
LCRI 48.2 110 95 32.45 P 0 8.52 8.42 0.10 1.012 0.00-23.93 14.74-38.67 0.000 405 4
011 49.0 125 95 32.59 EPD 8.66 8.55 0.11 1.012 0.00-23.93 14.74-38.67 0.000 405 4
35 56.0 112 94 33.60 IP 9.67 9.69 -0.02 1.012 0.00-23.93 14.74-38.67 0.000 405 4

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 E NE SW NW SE M
AVE. OF END POINTS 0.12 0.13 0.14 0.15 0.21 0.22 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
14 0.08 0.08 0.18 0

END END END

83/11/18 0/ 6 -----BEGIN-----BEGIN-----83/11/18 0/ 6

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVNM SDIM NF AVFM SDFM
831118 0 5 19.36 4419.98 114W 1.73 7.35 2.55 16 8 40 1 0.09 0.7 1.4 A AIA 0.07 10 23 0.00 0.07 0 0.0 0.0 14 2.5 0.2
SE OF ORIG = 0.054 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)

STN	DIST	AZM	AIN	PSEC	PRMK	TCOR	OTCOR	OTCOR-TTCAL	DELAY-EOLY	P-RES	P-WT	IMIC	SSEC	SRMK	TTOB	TTCAL	S-RES	S-WT	AMX	PR	IMAG	R	FMP	PMAG
02	6.8	129	131	21.231PO	1.89	1.82				-0.07	1.019		24.55	5.19	3.19	2.00	0.000		406	44	2.54			
017	7.8	239	126	21.251PC	1.90	1.94				-0.04	1.019		22.76	3.40	3.39	0.01	0.713		406	52	2.64			
01	8.0	345	125	21.231PO	1.89	1.96				-0.07	1.019		22.80	3.44	3.43	0.01	0.000		406	47	2.64			
MPSI	8.7	176	122	21.301PO	2.02	2.07				-0.05	1.019		23.33	3.97	3.62	0.35	0.000		406	33	2.24			
MIR	10.8	327	114	21.831PC	2.47	2.37				0.10	1.019		23.96	4.60	4.74	-0.14	0.000		406	30	2.24			
MSUI	13.0	143	106	22.131PO	2.80	2.71				0.09	1.019		25.55	6.19	5.91	0.28	0.000		406	53	2.74			
016	17.3	160	96	22.731PO	3.37	3.38				-0.01	1.019		25.33	5.97	6.08	-0.11	0.000		406	49	2.64			
GCI	17.9	41	95	22.811PC	3.45	3.48				-0.03	1.019								406	60	2.84			
04	20.9	137	93	23.271PO	3.91	3.98				-0.06	1.019								406	53	2.74			
015	22.0	219	93	23.491P	4.13	4.16				-0.03	1.019								406	27	2.14			
MBAI	27.0	147	92	24.40EPD	5.04	4.97				0.07	1.019		28.03	8.67	8.69	-0.02	0.000		406	45	2.64			
013	27.3	180	92	24.35EP	4.99	5.02				-0.03	1.019								406	53	2.84			
012	39.4	184	91	26.531PO	7.17	6.99				0.16	1.019								406	46	2.74			
05	46.6	141	91	27.531PC	8.17	8.14				0.03	1.019								406	41	2.64			
011	46.9	158	91	27.32EP	7.96	8.19				-0.23	1.019								406	41	2.64			

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE M E NW NE SW Z
AVE. OF END POINTS 0.13 0.13 0.15 0.15 0.15 0.18 0.19

NUMBER RMS MIN DRMS AVE DRMS QUALITY
9 0.09 0.07 0.16 D

-----END-----END-----END-----


```

83/11/18 5/ 6 -----BEGIN-----BEGIN-----83/11/18 5/ 6
                                HORIZONTAL          VERTICAL
                                SE = 0.32          SE = 0.71  QUALITY = A
                                AZ = 1.            AZ = -89.

DATE   ORIGIN   LAT   LDNG   DEPTH   MAG MD D3 GAP M  RMS  ERM  ER2 Q SQD  ADJ IN NR  AVR  AAR NM AVXM SOXM NF AVFM SDFM
831118 5 6 22-19 44N10-07 113W58-98 10-81 2-69 12 11 72 1 0-05 0-4 0-7 A A1A 0-30 10 16 0-00 0-04 0 0-0 0-0 10 2-7 0-1
SE OF ORIG = 0.039 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
SYN DIST AZM AIM PSEC PRMK+TCOR-D-TION-TICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOR TTICAL S-RES S-WT AMX PR XHAG R FMP FHAG
816 3-1 46 183 28-131PD 1-94 1-98 -0-03 1-053 28-23 4-04 3-46 0-58 0-000 409 51 2-64
813 9-7 202 134 28-751PD 2-56 2-55 0-01 1-053 28-65 4-46 4-46 0-00 0-737 409 47 2-64
84 11-2 73 130 28-931PC 2-74 2-73 0-01 1-053 28-98 4-79 4-78 0-02 0-737 409 68 2-94
82 14-2 7 122 28-351PD 3-16 3-13 0-04 1-053 28-60 6-41 5-47 0-94 0-000 409 49 2-64
815 17-4 274 116 25-761PC 3-37 3-58 -0-01 1-053 29-38 7-19 7-45 -0-25 0-000 409 50 2-74
817 17-7 324 115 25-731PD 3-54 3-62 -0-08 1-053 31-13 8-94 10-03 -1-09 0-000 409 51 2-74
812 21-9 196 109 28-531PC 4-34 4-26 0-09 1-053 409 54 2-74
81 26-7 348 105 27-231PC 5-04 5-00 0-05 1-053 409 52 2-74
811 28-7 191 103 27-391PD 5-20 5-31 -0-10 1-053 409 48 2-74
85 31-3 124 102 27-931PD 5-74 5-73 0-01 1-053 409 47 2-74

QUALITY EVALUATION
DIAGONALS IN ORDER OF STRENGTH  Z  NE  SW  NW  SE  E  N
AVE. OF END POINTS 0-41 0-84 0-85 0-86 0-87 0-86 1-04

NUMBER  RMS  MIN  DRMS  AVE  DRMS  QUALITY
12 0-05 0-46 0-86 A
-----END-----END-----END-----

```


83/11/10 11/23 BEGIN-----BEGIN-----83/11/10 11/23

SE = 0.36 SE = 0.53 VERTICAL
AZ = -10. AZ = -100. SE = 1.29 QUALITY = A

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SOD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
#31118 1123 24.78 44N16.09 114W 6.69 7.80 3.03 28 12 103 1 0.11 0.5 1.3 8 A18 0.50 10 47 0.00 0.08 0 0.0 0.0 9 3.0 0.2
SE OF ORIG = 0.041 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) (----- MAGNITUDE DATA ----)
STN DIST AZM AIM PSEC PRMK*TCOR=0-TTOB-TTICAL-DELT-EDLY= P-RES P-WT THIC SSEC SRMK TTOB TTICAL S-RES S-WT AMX PR XNAG R FMP FMAG
#17 3-2 358 155 26.291P0 1.51 1.53 -0.02 1.022 0.05 1.022 27.63 2.85 3.40 -0.55 0.000 413 65 2.84
#WSI 7.4 102 130 26.78 P-0 2.00 1.94 0.05 1.022 0.01 1.022 0.00-24.78 4.52-29.30 0.000 413 4
#CGI 12.0 45 113 27.37 PC0 2.59 2.58 -0.15 1.022 0.00-24.78 4.58-29.36 0.000 413 4
#NPI 12.3 137 112 27.25 P 0 2.47 2.62 0.12 1.022 29.57 4.79 4.59 0.20 0.000 413 82 3.14
32 12.3 76 112 27.521PC 2.74 2.62 -0.01 1.022 28.70 3.92 4.59 -0.67 0.000 413 64 2.84
#IS 12.3 216 112 27.401P0 2.62 2.62 0.09 1.022 0.00-24.78 5.24-30.02 0.000 413 4
#MSUI 14.7 103 106 27.87 PC0 3.09 2.99 0.05 1.022 0.00-24.78 5.40-30.19 0.000 413 4
#MSUI 14.9 112 105 27.85 PC 3.07 3.02 0.06 1.022 30.01 5.23 5.43 -0.21 0.715 413 4
#RCI 15.3 235 104 27.93 P 0 3.15 3.09 0.02 1.022 30.22 5.44 5.49 -0.05 0.715 413 80 3.04
#B16 15.4 126 104 27.911PC 3.13 3.10 0.16 1.022 0.00-24.78 5.67-30.45 0.000 413 4
#B1 15.6 17 104 27.921PC 3.14 3.14 0.10 1.022 0.00-24.78 6.67-31.46 0.000 413 4
#MR 16.3 3 102 28.18 P00 3.40 3.24 0.04 1.022 31.82 7.04 7.05 -0.01 0.000 413 71 3.04
#LD 19.8 338 97 28.50 P 0 3.72 3.81 -0.06 1.022 32.11 7.33 7.41 -0.38 0.000 413 104 3.34
#MSI 20.8 357 96 28.72 PC 3.94 3.97 0.12 1.022 0.00-24.78 7.72-32.50 0.000 413 4
#B3 21.2 162 96 28.751PC 3.97 4.03 -0.25 1.022 0.00-24.78 8.50-33.28 0.000 413 4
#A 22.4 111 95 29.061PC 4.28 4.23 -0.59 0.000 0.00-24.78 8.87-33.66 0.000 413 4
#M-2 22.5 121 95 29.31 P00 4.53 4.24 0.07 1.022 0.00-24.78 9.45-34.76 0.000 413 4
#CGI 23.6 78 95 29.94 PC0 4.16 4.41 -0.19 1.022 0.00-24.78 9.66-34.44 0.000 413 4
#BRI 26.3 126 94 20.05 P04 -4.73 4.85 5.00 5.07 0.19 1.022 0.00-24.78 10.13-34.91 0.000 413 4
#GCI 27.6 41 93 29.78 PC0 5.00 5.07 0.05 1.022 0.00-24.78 11.94-36.72 0.000 413 86 3.24
#M-1 27.7 138 93 30.67 P-0 5.89 5.40 0.30 0.19 1.022 0.00-24.78 11.94-36.72 0.000 413 4
#BPI 30.4 155 93 30.40 P 0 5.62 5.52 -0.05 1.022 0.00-24.78 11.94-36.72 0.000 413 4
#RCI 32.1 172 93 30.38 PC0 5.60 5.79 0.12 1.022 0.00-24.78 11.94-36.72 0.000 413 60 2.94
#B2 32.4 173 93 30.571PC 5.79 5.84 -0.03 1.022 0.00-24.78 11.94-36.72 0.000 413 85 3.24
#LCRI 38.5 131 92 31.56 P00 6.78 6.82 0.03 1.022 0.00-24.78 11.94-36.72 0.000 413 4
#B1 42.6 146 92 32.551PC 7.77 7.65 0.03 1.022 0.00-24.78 11.94-36.72 0.000 413 4
#B5 46.2 129 91 33.891P 8.11 8.08 0.03 1.022 0.00-24.78 11.94-36.72 0.000 413 4

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH 2 NE E SW NW SE N
AVE. OF END POINTS 0.22 0.63 0.67 0.73 0.75 0.84 1.05

NUMBER RMS MIN DRMS AVE GRMS QUALITY B
28 0.11 0.28 0.74

-----END-----ENC-----ENC-----END-----

33/11/10 12/10 BEGIN BEGIN BEGIN 83/11/10 12/10

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
331118 1210 1.00 44N17.91 114W21.36 6.49 2.42 17 19 252 1 0.12 1.6 1.0 C B10 0.06 10 23 0.00 0.09 0 0.0 0.0 15 2.4 0.3
SE OF ORIG = 0.133 6 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)
STN DIST AZIM PSEC PRMK+TCOR=0-TT08-TTICAL-DELAY-EDLY= P-RES P-WT THIC SSEC SAMK TT08 TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
915 18.2 137 108 5.33IPC 3.53 3.53 0.00 1.037 7.86 6.06 6.17 -0.11 0.000 414 44 2.54
916 19.2 39 107 5.55 P 3.75 3.70 0.05 1.037 8.25 6.45 6.53 -0.08 0.726 414 41 2.54
917 19.4 90 107 5.55IPC 3.75 3.73 0.02 1.037 10.59 8.79 8.67 0.12 0.726 414 40 2.54
MIR 24.0 57 104 6.35IP 4.55 4.52 0.03 1.037 11.23 9.43 8.82 0.61 0.000 414 42 2.54
81 26.7 64 65 6.69IPC 4.89 4.95 -0.06 1.037 10.59 8.79 8.67 0.12 0.726 414 20 1.94
NWSI 27.2 100 65 6.74IPC 4.94 5.04 -0.10 1.037 -0.04 1.037 10.87 9.07 12.89 -3.82 0.000 414 38 2.44
82 31.4 91 65 7.49EPC 5.69 5.73 -0.17 1.037 10.87 9.07 12.89 -3.82 0.000 414 36 2.44
NSUI 34.5 101 65 7.93EPC4 6.13 6.22 -0.09 0.000 19.65 17.85 17.87 -0.02 0.000 414 20 1.94
B13 35.2 132 65 8.08EPC 6.28 6.33 -0.05 1.037 21.54 19.74 19.35 0.39 0.000 414 33 2.34
GCI 41.5 65 65 9.06IPC 7.26 7.37 -0.11 1.037 19.65 17.85 17.87 -0.02 0.000 414 39 2.54
84 42.1 106 65 9.26EP 7.46 7.46 0.00 1.037 21.54 19.74 19.35 0.39 0.000 414 52 2.84
812 42.7 146 65 9.22EPO 7.42 7.55 -0.13 1.037 19.65 17.85 17.87 -0.02 0.000 414 51 2.74
48A1 45.0 115 65 9.77EP 7.97 7.92 0.05 1.037 21.54 19.74 19.35 0.39 0.000 414 25 2.14
811 59.1 132 65 12.13EP 10.23 10.21 0.12 1.037 19.65 17.85 17.87 -0.02 0.000 414 33 2.44
85 64.3 120 65 13.20IPC 11.40 11.05 0.35 1.037 21.54 19.74 19.35 0.39 0.000 414 50 2.84

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E N NE NW SW SE
AVE. OF END POINTS 0.06 0.09 0.09 0.11 0.12 0.13 0.14

NUMBER RMS MIN ORMS AVE ORMS QUALITY
6 0.12 0.06 0.11 D

END END END END

83/11/18 13/ 6 BEGIN-----BEGIN-----83/11/18 13/ 6

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SORH MF AVFM SOFM
831118 13 6 12.85 43N54.09 113W46.46 12.56 2.17 9 25 253 1 0.02 0.6 0.3 C AID 0.51 10 14 0.00 0.02 0 0.0 0.0 10 2.2 0.2
SE OF ORIG = 0.050 8 ITERATIONS TOTAL

SE = 0.29 HORIZONTAL SE = 0.63 VERTICAL
AZ = -104. AZ = -14. SE = 0.33 QUALITY = A

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
STM DIST AZM AIM PSEC PRNK+TCOR-O-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCL S-RES S-WT AMX PR XMAG R FMP FMAG
811 5.3 328 156 15.23IPC 2.38 2.37 0.01 1.034 17.00 4.15 4.15 0.00 0.724 416 28 2.14
85 14.9 38 126 16.22IPC 3.37 3.38 -0.01 1.034 19.38 6.53 5.91 0.62 0.000 416 38 2.44
812 24.6 290 112 17.63IPC 4.78 4.76 0.02 1.034 21.03 8.18 8.33 -0.15 0.000 416 33 2.34
813 29.0 315 108 18.26EPD 5.41 5.44 -0.03 1.034 23.23 10.38 10.70 -0.32 0.000 416 21 2.04
84 33.3 350 105 18.95EP 6.10 6.11 -0.01 1.034 416 36 2.44
816 34.9 335 104 19.23IP 6.38 6.35 0.02 1.034 416 22 2.04
815 46.0 312 100 20.96IPD 8.11 8.13 -0.02 1.034 416 22 2.14
82 46.2 341 100 21.04IPD 8.19 8.16 0.03 1.034 416 21 2.04
817 51.6 328 98 19.23IPC 6.40 9.03 -2.63M0.000 416 23 2.14
81 60.0 338 97 20.43IPC 7.59 10.38 -2.79M0.000 416 23 2.24

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NM SE Z NE N SW E
AVE. OF END POINTS 0.16 0.17 0.20 0.23 0.26 0.28 0.29

NUMBER RMS MIN ORMS AVE ORMS QUALITY
8 0.02 0.15 0.22 B

-----END-----END-----END-----

83/11/18 17/21 BEGIN-----BEGIN-----83/11/18 17/21

DATE ORIGIN LAT LONG DEPTH MAG WD D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR MM AVXM SDXM NF AVFM SDFM
 831118 1721 21.30 44W 0.01 113W57.28 11.11 2.54 11 11 96 1 0.06 0.6 0.7 B A1B 1.81 10 17 0.00 0.05 0 0.0 0.0 7 2.5 0.1
 SE OF ORIG = 0.044 3 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA -----
 STN DIST AZM AIM PSEC PRMK+TCOR-Q-TTDB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTICAL S-RES S-WT AMX PR RMAG R FMP FMAG
 816 5.9 360 149 23.481PD 2.18 2.21 -0.03 1.058 25.20 3.90 3.87 0.03 0.740 417 41 2.54
 913 7.8 229 142 23.731PD 2.43 2.39 0.04 1.058 25.41 4.11 4.18 -0.07 0.740 417 41 2.54
 84 11.0 50 131 24.021PC 2.72 2.74 -0.02 1.058 25.82 4.52 4.79 -0.27 0.000 417 55 2.74
 92 17.9 358 116 25.101PD 3.80 3.67 0.13 1.058 27.97 6.67 6.43 0.24 0.000 417 48 2.64
 312 19.2 206 114 25.211PC 3.91 3.85 0.06 1.058 27.83 6.53 6.74 -0.21 0.000 417 35 2.44
 817 22.1 325 110 25.54EPD 4.24 4.31 -0.07 1.058 28.62 7.32 8.11 -0.79 0.000 417 41 2.54
 811 24.3 151 108 25.941PD 4.64 4.64 -0.00 1.058 29.83 8.53 8.94 -0.41 0.000 417 49 2.74
 85 27.3 121 105 26.381PC 5.08 5.11 -0.03 1.058 30.63 9.33 9.93 -0.60 0.000 417 35 2.44
 31 30.9 345 103 26.931PC 5.63 5.67 -0.04 1.058

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z E SW NW NE SE M
 AVE. OF END POINTS 0.51 0.71 0.74 0.81 0.87 0.90 1.06

NUMBER RMS MIN ORMS AVE ORMS QUALITY
 11 0.06 0.54 0.82 A

-----END-----END-----END-----END-----

-----BEGIN-----	-----BEGIN-----	-----BEGIN-----
03/11/18	10/55	03/11/18
		10/55

SE =	0.29	SE =	0.54
AZ =	-22.	AZ =	-112.
HORIZONTAL		VERTICAL	
		SE =	0.94
		QUALITY =	A

DATE	ORIGIN	LAT	LONG	DEPTH	MAG	NO	D3	GAP	M	EMS	ERM	ER2	Q	SQD	ADJ	IN	NR	AVR	AAR	NM	AVXM	SDXM	NF	AVFM	SDFM		
31118	1855	42.19	114W	2.76	3.43	22	8	67	1	0.08	0.5	0.9	A	A1A	0.28	10	34	0.00	0.07	0	0.0	0.0	0	0.0	9	3.4	0.1
SEI OF ORIG = 0.037					3 ITERATIONS TOTAL																						

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (---- S-WAVE TRAVEL-TIME DATA ----) (---- MAGNITUDE DATA ----)																						
STN	DIST	AZM	AIN	PSEC	PRMKOTCD	D=TYOB	TTCAL	EDLV	P-RES	P-THIC	SSEC	SRMK	TYOB	TTCAL	S-RES	S-WT	AMX	PR	AMAG	R	FMP	FMAG
MSNI	2.0	81	166	43.78	PDO		1.59	1.61	-0.01	1.014	0.00	-42.19	2.81	-45.00	0.000				419			4
MB17	7.3	313	135	44.11	PO		1.92	2.04	-0.12	1.014									419	113	3.34	
AND1	7.8	156	133	44.19	PDO		2.00	2.10	-0.09	1.014	0.00	-42.19	3.67	-45.85	0.000				419			4
AD2	8.2	55	132	44.41	PO		2.22	2.14	-0.08	1.014									419	112	3.34	
MSUI	9.2	99	128	44.53	PCO		2.34	2.27	0.08	1.014	0.00	-42.19	3.97	-46.15	0.000				419			4
MSUI	9.4	114	127	44.50	PO		2.31	2.28	0.03	1.014									419			4
MB16	10.2	135	124	44.64	PO		2.45	2.40	0.05	1.014	0.00	-42.19	4.34	-46.53	0.000				419	113	3.34	
MCCT	10.8	17	122	44.64	PDO		2.45	2.48	-0.03	1.014									419			4
MB1	16.7	358	108	45.41	PCO		3.22	3.35	-0.13	1.014	48.03	5.84	5.86	-0.02	0.710				419	116	3.44	
SA	16.9	111	108	45.53	PCP		3.36	3.38	-0.01	1.014									419	155	3.64	
MB2	17.1	125	107	45.79	PCO	0.17	3.60	3.41	0.03	1.014	0.00	-42.19	5.96	-48.45	0.000				419			4
MB13	18.4	176	105	45.84	PCP		3.65	3.60	0.06	1.014	48.39	6.20	6.30	-0.09	0.000				419	118	3.44	
MIR	18.6	346	105	46.00	PCO		3.81	3.63	0.18	1.014	0.00	-42.19	6.35	-48.54	0.000				419			4
RCI	19.1	249	104	46.05	PCO		3.86	3.73	0.14	1.014	0.00	-42.19	6.52	-48.71	0.000				419			4
MMST	23.5	344	100	46.59	PO		4.40	4.42	-0.01	1.014									419			4
BLD	23.8	328	99	46.60	P	0	4.41	4.48	-0.06	1.014	0.00	-42.19	7.83	-50.02	0.000				419			4
MB1	25.0	144	99	47.01	PCO		4.82	4.66	-0.13	1.014	0.00	-42.19	8.15	-50.86	0.000				419			4
GC1	26.1	30	98	47.04	PCO		4.85	4.83	0.03	1.014	0.00	-42.19	8.45	-50.63	0.000				419			4
MB12	30.4	182	96	47.62	PCP		5.43	5.52	-0.09	1.014	51.54	9.35	9.66	-0.31	0.000				419	139	3.64	
MB11	39.3	151	94	49.23	PCP		7.03	6.98	0.05	1.014									419	99	3.34	
MB1	41.1	131	94	49.43	PCP		7.22	7.26	-0.03	1.014									419	129	3.64	

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	Z	NE	SW	E	NW	SE	N
AVE. OF END POINTS	0.27	0.56	0.67	0.69	0.89	0.94	1.10

NUMBER	RMS	MIN	ORMS	AVE	ORMS	QUALITY	B
22	0.08		0.30		0.77		

END
END
END
END

83/11/19 0712 BEGIN-----BEGIN-----03/11/19 0712

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SORM NF AVFM SDFM
 031119 012 47.06 44M 7.38 113W55.65 9.63 2.32 10 10 83 1 0.05 0.5 1.0 A AIA 3.18 10 14 0.00 0.04 0 0.0 0.0 9 2.3 0.1
 SE OF DRIG = 0.041 3 ITERATIONS TOTAL

C- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) (--- MAGNITUDE DATA ---)

STN	OIST	AZM	AIM	PSEC	PRMK	TCOR	O-TTDB	TTTCL	DELAY	EDLT	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTTCL	S-RES	S-WT	AMX	PR	XMAG	R	FMP	FMAG
916	7.4	343	138	49.14	IPC	2.08	2.16				-0.09	1.031													
913	9.0	244	132	49.40	IPC	2.34	2.34				0.00	1.031													
94	10.3	38	128	49.57	IPC	2.51	2.50				0.01	1.031													
912	19.2	214	108	50.80	IPC	3.74	3.78				-0.05	1.031													
82	19.3	352	108	50.91	IPC	3.85	3.79				0.06	1.031													
911	22.2	155	105	51.36	IPC	4.30	4.25				0.05	1.031													
917	24.6	323	103	51.61	IPC	4.55	4.59				-0.04	1.031													
85	24.9	121	102	51.71	IPC	4.65	4.67				-0.02	1.031													
91	32.7	342	98	53.02	IPC	5.96	5.92				0.04	1.031													

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH		Z	SW	E	NW	SE	NE	N
AVE. OF END POINTS		0.33	0.70	0.80	0.87	0.89	0.92	1.08

NUMBER	RMS	MIN	ORMS	AVE	ORMS	QUALITY
10	0.05			0.42		A

83/11/19 0/59 BEGIN-----BEGIN-----83/11/19 0/59

HORIZONTAL SE = 1.89 SE = 10.95 VERTICAL SE = 7.37 QUALITY = 0
AZ = -124. AZ = -34.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ERZ Q SQD AQJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
831119 059 16.27 44N35.35 114W14.28 7.82 2.77 16 22 306 1 0.11 10.5 7.4 0 DID 0.26 10 27 0.00 0.09 0 0.0 0.0 7 2.8 0.1
SE OF ORIG = 0.898 7 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA --)
STN DIST AZM AIN PSEC PRMK+TCOR-O-TTOTH-TTICAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTOT TTICAL S-RES S-WT AMX PR XHAG R FMP FMAG
#MSI 17.3 149 101 19.60 PC0 3.33 3.40 -0.08 1.118 0.00-16.27 5.96-22.23 0.000 422 4
#LO 17.5 171 101 19.80 P 0 3.53 3.43 0.10 1.118 0.00-16.27 6.00-22.27 0.000 422 4
#IR 22.2 151 96 20.57 PD0 4.30 4.20 0.10 1.118 0.00-16.27 7.34-23.62 0.000 422 4
#I 25.4 145 94 20.83 PD0 4.56 4.70 -0.14 1.118 0.00-16.27 10.09-26.36 0.000 422 55 2.84
#CI 31.9 118 93 22.04 PD0 5.77 5.76 0.00 1.118 25.92 9.65 12.21 -2.56 0.000 422 46 2.64
#I7 33.9 163 92 22.30 IPC 6.03 6.09 -0.06 1.118 0.00-16.27 12.66-28.93 0.000 422 49 2.74
#2 39.4 146 92 23.12 IPC 6.95 6.97 -0.13 1.118 0.00-16.27 14.71-30.99 0.000 422 4
#MSI 41.0 155 92 23.47 PC0 7.20 7.23 -0.03 1.118 0.00-16.27 16.81-33.38 0.000 422 4
#NPI 48.2 157 91 24.53 P 3 8.26 8.41 -0.15 0.070 0.00-16.27 19.50-36.29 0.000 422 4
#I6 50.0 153 91 24.96 IP 8.69 8.70 -0.01 1.118 31.40 15.13 23.55 -8.43 0.000 422 60 3.04
#4 53.5 145 91 25.50 IPD 9.23 9.26 -0.03 1.118 0.17 1.118 0.17 1.118 422 55 2.94
#M-2 55.6 148 91 26.90 P 3 10.63 9.60 0.85M0.000 0.19 1.118 422 41 2.74
#I3 58.2 163 91 26.21 IPC 9.94 10.02 -0.03 1.118 0.00-16.27 23.55 -8.43 0.000 422 4
#M-1 65.0 153 91 28.10 P 2 11.83 11.14 0.30 0.39 0.279 0.00-16.27 23.55 -8.43 0.000 422 4
#I2 69.3 168 91 28.02 EPD 11.75 11.83 -0.08 1.118 0.00-16.27 23.55 -8.43 0.000 422 4
#S 79.3 144 91 29.90 IPC 13.63 13.46 0.17 1.118 0.00-16.27 23.55 -8.43 0.000 422 4
#I1 79.6 155 91 29.98 EP 13.71 13.51 0.19 1.118 0.00-16.27 23.55 -8.43 0.000 422 4

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N SE NW NE SW E Z
AVE. OF END POINTS 0.06 0.06 0.09 0.10 0.12 0.12 0.14

NUMBER RMS MIN ORMS AVE ORMS QUALITY
15 0.11 0.03 0.09 D

-----END-----END-----END-----END-----

83/11/19 1/48 -----BEGIN-----BEGIN-----83/11/19 1/48

HORIZONTAL SE = 0.36 SE = 0.61 VERTICAL SE = 1.67 QUALITY = A
AZ = -28. AZ = -118.

DATE ORIGIN LAT LONG DEPTH MAG MD D3 GAP M RMS ERM ER2 Q SOD ADJ IN MR AVR AAR NM AVXM SDXM NF AVFM SOFM
831119 148 29.28 44N 4.99 113W 54.07 10.66 2.48 10 13 95 1 0.05 0.6 1.7 8 A18 0.11 10 12 0.00 0.0% 0 0.0 0.0 9 2.5 0.2
SE OF ORIG = 0.069 5 ITERATIONS TOTAL

(- STATION DATA -) (- P-WAVE TRAVEL-TIME DATA AND DELAYS -) VARI (- S-WAVE TRAVEL-TIME DATA -) (- MAGNITUDE DATA -)
STN DIST AZM AIM PSEC PRMK+TCOR-D-TTOD-TTCAL-EDLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR AMAG R PHP PHAG
013 10.2 273 132 31.061PD 2.58 2.60 -0.01 1.031 33.61 4.33 4.54 -0.21 0.000 423 36 2.44
016 12.3 339 124 32.121PC 2.84 2.85 -0.01 1.031 423 35 2.34
04 13.3 18 124 32.221PC 2.94 2.99 -0.05 1.031 423 54 2.74
012 17.3 228 116 32.011PD 3.53 3.54 -0.01 1.031 35.54 6.26 6.22 0.05 0.722 423 46 2.04
011 17.3 195 115 32.041PD 3.56 3.55 0.01 1.031 423 42 2.54
05 21.0 113 110 33.341PC 4.06 4.11 -0.05 1.031 423 49 2.74
02 24.0 348 107 33.981PD 4.70 4.57 0.13 1.031 423 33 2.34
017 29.2 325 103 34.591PD 5.31 5.37 -0.06 1.031 423 31 2.34
01 37.6 341 99 36.011PD 6.73 6.73 0.01 1.031 41.36 12.08 11.77 0.31 0.000 423 41 2.64

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE N NE E NW SW
AVE. OF END POINTS 0.09 0.13 0.18 0.18 0.20 0.22 0.22

NUMBER RMS MIN DRMS AVE DRMS QUALITY
5 0.05 -0.01 0.17 D

-----END-----END-----END-----

83/11/19 27 2 BEGIN BEGIN BEGIN 83/11/19 2/ 2

DATE ORIGIN LAT LONG DEPTH MAG NO 03 GAP M RMS ERM ERZ Q SDOO ADJ IN NR AVR ABR NM AVXM SDXM NF AVFM SDFM
031119 2 2 16.29 44N 2.59 113W55.79 11.73 2.39 12 15 96 1 0.06 0.8 1.9 8 A18 0.21 10 16 0.00 0.04 0 0.0 0.0 11 2.4 0.2
SE OF ORIG = 0.090
4 ITERATIONS TOTAL
P-WAVE TRAVEL-TIME DATA AND DELAYS
SYN DIST AZM AIM PSEC PRMK+TCOR-O-TTOB-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TTOB TTCAL S-RES S-WT AMX PR X MAG R FMP FMAG
013 9.3 302 138 18.941P 2.65 2.62 0.03 1.026 0.04 1.026 424 40 2.44
012 12.7 236 129 19.341PC 3.05 3.01 0.04 1.026 21.88 5.59 5.77 -0.18 0.000 424 49 2.64
011 14.8 139 124 19.461PC 3.17 3.29 -0.12 1.026 22.96 6.67 8.26 -1.59 0.000 424 40 2.54
016 16.1 353 121 19.761PC 3.47 3.47 0.00 1.026 26.49 10.20 10.21 -0.01 0.718 424 34 2.34
04 18.2 21 117 20.011PC 3.72 3.77 -0.05 1.026 30.40 14.11 14.17 -0.06 0.000 424 45 2.64
05 21.9 100 112 20.721PC 4.43 4.31 0.12 1.026 424 44 2.64
NM51 24.6 343 109 20.991PC 4.70 4.72 -0.02 1.026 424 21 1.94
02 28.1 355 106 21.611PC 5.32 5.26 0.06 1.026 424 36 2.44
017 31.8 333 104 22.091PO 5.80 5.83 -0.03 1.026 424 35 2.44
01 41.2 346 100 23.621PO 7.33 7.33 0.00 1.026 424 25 2.24
MIR 43.5 342 99 24.431EP 4 8.14 7.71 0.43 0.000 424 30 2.34
GCI 45.9 5 98 24.371EP 8.08 8.10 -0.02 1.026 424 30 2.34

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH N NW NE SE SW Z E
AVE. OF END POINTS 0.06 0.13 0.14 0.15 0.18 0.20 0.24

NUMBER 7
RMS MIN DRMS AVE DRMS QUALITY
0.06 -0.01 0.15 0

END END END END

33/11/19 4/59 -----BEGIN-----BEGIN-----83/11/19 4/59
 DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD AOJ IN NR AVR AAR NM AXIM SOXM MF AVFM SDFM
 031119 459 17.03 64N14.96 114W 3.55 7.89 2.52 11 11 141 1 0.05 0.6 1.0 6 AIC 0.14 10 12 0.00 0.04 0 0.0 0.0 6 2.5 0.1
 SE OF ORIG = 0.036
 4 ITERATIONS TOTAL
 (- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---
 STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EOLY= P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAG R FHP FMA6
 017 6.8 321 134 19.72 P 1.89 1.89 0.00 1.058 22.05 4.22 4.21 0.01 0.740 425 40 2.44
 02 9.3 57 123 20.041PD 2.21 2.19 0.01 1.058 23.69 5.86 5.89 -0.03 0.740 425 43 2.54
 016 10.8 130 118 20.251PD 2.42 2.41 0.01 1.058 24.14 6.31 6.19 0.11 0.000 425 41 2.54
 01 17.0 1 102 21.241PC 3.41 3.36 -0.10 1.058 0.08 1.058 425 48 2.74
 04 17.8 109 101 21.221PD 3.39 3.48 0.02 1.058 0.08 1.058 425 35 2.44
 013 18.2 172 100 21.391PC 3.56 3.54 -0.08 1.058 0.03 1.058 425 4
 012 30.0 180 93 23.221PC 5.39 5.46 7.09 7.01 0.03 1.058 425 4
 011 39.6 150 92 24.92EPD 7.09 7.01 7.38 7.34 0.03 1.058 425 4
 05 41.7 130 92 25.211PC 7.38 7.34 0.03 1.058 425 4

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE NW SW NE Z E
 AVE. OF ENO POINTS 0.16 0.17 0.18 0.20 0.24 0.25 0.30

NUMBER 4 RMS MIN DRMS AVE DRMS QUALITY
 0.05 0.11 0.21 0

-----END-----END-----END-----

83/11/19 5/56 BEGIN-----BEGIN-----83/11/19 5/56

HORIZONTAL SE = 2.19 SE = 10.05 VERTICAL SE = 9.87 QUALITY = 0
AZ = -110. AZ = -20.

DATE ORIGIN LAT LONG DEPTH MAG ND D3 GAP M RMS ERM ERZ Q SQD AOJ IN MR AVR AAR NM AVIM SOXM MF AVFM SDFM
931119 556 11.62 43N51.98 113W45.99 16.69 2.04 6 27 270 1 0.07 10.0 9.9 D CID 1.66 10 11 0.00 0.06 0 0.0 0.0 7 2.0 0.2
SE OF ORIG = 1.053 10 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----) MAGNITUDE DATA ----
STN DIST AZM AIN PSEC PRMK+TCOR-D-TION-TTCAL-DELAY-EDLY= P-RES P-WT TMIC SSEC SRMK TT08 TTICAL S-RES S-WT ANX PR XMAG R FMP FMAG
011 9.1 338 150 14.86IPC 3.24 3.25 -0.01 1.000 16.56 4.94 5.69 -0.75 0.000 23 2.0
05 17.9 28 130 15.83IPD 4.21 4.18 0.03 1.000 20.74 9.12 9.39 -0.27 0.000 30 2.3
012 26.7 298 118 16.94IPD 5.32 5.36 -0.05 1.000 22.96 11.34 12.13 -0.73 0.000 15 1.7
013 32.3 319 114 17.86EP 6.24 6.17 0.06 1.000 7.00M0.000 13 1.7
94 37.3 350 110 18.44IPD 6.82 6.93 -0.11 1.000
016 38.7 337 109 18.85EPC 7.23 7.15 0.08 1.000
01 63.9 339 65 23.19IP04 11.57 11.01 0.56 0.000
GCI 66.1 352 65 29.95EP 18.33 11.33

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH NW SE Z N SW NE E
AVE. OF END POINTS 0.04 0.12 0.14 0.17 0.20 0.21 0.23

NUMBER RMS MIN DRMS AVE DRMS QUALITY
6 0.07 -0.04 0.16 0

-----END-----END-----END-----

33/11/19

SE = 0.50
AZ = -19.
HORIZONTAL

MAG NO 03 GAP M
2.96 15 10 128 1

DATA AND DELAYS
L-DELAY-EOLV= P-R

QUALITY EVALUATION

STRENGTH

RMS MIN 0.09

.....

83/11/19 10/25 BEGIN BEGIN BEGIN 83/11/19 10/25

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN MR AVR AAR NW AVIM SOWM MF AVEM SDFM
831119 1025 2.99 43N54.87 113W39.78 3.43 2.06 9 33 282 1 0.13 8.1 2.6 0 D1D 0.22 10 9 0.00 0.11 0 0.0 0.0 9 2.1 0.1
SE OF ORIG = 0.685 7 ITERATIONS TOTAL

(-- STATION DATA --) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA ----)(----- MAGNITUDE DATA ----)
STN DIST AZM AIN PSEC PRMK+TCOR-D-TTDB-TTCAL-DELAY-EDLY- P-RES P-WT THIC SSEC SRMK TTDB TTCAL S-RES S-WT AMX PR XMAX R FMP FMAX
85 10.4 1 105 5.001PD 2.01 2.02 -0.01 1.000 429 33 2.24
811 12.1 285 103 5.66EPD 2.47 2.32 0.16 1.000 429 25 2.04
812 32.7 283 94 8.81EPC 5.82 5.98 -0.16 1.000 429 27 2.14
84 34.7 335 94 9.18EPC 6.19 6.33 -0.14 1.000 429 32 2.34
813 35.0 303 94 9.40EP 6.41 6.39 0.02 1.000 429 21 1.94
816 38.3 322 94 10.04EPD 7.05 6.96 0.09 1.000 429 22 2.04
82 48.6 330 65 11.89EP 8.90 8.74 -0.16 1.000 429 21 2.04
817 55.7 320 65 12.70EPD 9.71 9.90 -0.19 1.000 429 21 2.04
81 62.6 330 65 14.07EPC 11.08 11.02 0.06 1.000 429 22 2.14

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH SE 2 SW NW NE N E
AVE. OF END POINTS 0.05 0.06 0.07 0.07 0.09 0.12 0.21

NUMBER RMS MIN RMS AVE DRMS QUALITY
7 0.13 0.04 0.10 0

END END END END END END

83/11/19 11/17 BEGIN-----BEGIN-----83/11/19 11/17

DATE ORIGIN LAT LONG DEPTH MAG MD 03 GAP M RMS ERM ERZ U SQD ADJ IN MR AVR AAR NM AVIM SDXM NF AVFM SDFM
 31119 1117 34.44 44W12.34 114W 2.01 10.70 3.09 15 11 143 1 0.10 1.0 1.5 C BIC 0.63 10 28 0.00 0.07 0 0.0 0.0 Y 3.1 0.1
 SE OF ORIG = 0.065 5 ITERATIONS TOTAL

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ---)

STN	DIST	AZM	AIN	PSEC	PRMK	TCOR	D-TT08	TTICAL	DELT	P-RES	P-WT	THIC	SSEC	SRMK	TTDB	TTCAL	S-RES	S-WT	AMX	PR	IMAG	R	FMP	FMAG
916	6.6	108	146	36.64	IPD	2.20	2.21			-0.02	1.020		38.85	4.41	3.87	0.53	0.000		430	18	3.04			
95U3	9.5	2	135	37.02	PD0	2.58	2.51			0.06	1.020		42.35	7.91	4.60	3.51	0.000		430					
92	11.4	30	129	37.21	IPD	2.77	2.75			0.02	1.020		39.26	4.82	4.80	0.01	0.714		430	88	3.14			
917	12.0	328	127	37.10	IPD	2.66	2.81			-0.15	1.020		38.92	4.48	4.92	-0.44	0.000		430	82	3.14			
913	13.2	178	124	37.44	IPD	3.00	2.98			0.02	1.020		39.44	5.00	5.21	-0.21	0.000		430	73	3.04			
M-2	13.8	110	123	37.71	PD0	3.27	3.06	0.17		0.04	1.020		0.00	-34.44	5.36	-40.10	0.000		430					
94	14.8	94	120	37.61	IPD	3.17	3.20			-0.03	1.020		39.93	5.49	5.60	-0.11	0.000		430	94	3.24			
M-1	20.4	138	111	37.98	PD0	3.54	4.02	0.30		-0.78	0.000		0.00	-34.44	7.03	-41.99	0.000		430					
91	22.0	354	109	38.62	IPC	4.18	4.26			-0.08	1.020		42.02	7.58	7.45	0.13	0.000		430	76	3.04			
MIR	23.8	347	107	39.26	PD0	4.82	4.55			0.27	1.020		0.00	-34.44	7.96	-42.40	0.000		430					
912	25.3	185	106	39.18	IPC	4.74	4.77			-0.04	1.020		42.64	8.20	8.35	-0.16	0.000		430	90	3.24			
MMSI	28.7	345	103	39.77	PC	5.33	5.30			0.02	1.020		0.00	-34.44	9.73	-44.17	0.000		430					
GCI	30.2	23	182	39.84	PC0	5.40	5.56			-0.16	1.020								430	77	3.14			
911	34.4	148	100	40.65	EPC	6.21	6.22			-0.01	1.020								430					
95	37.0	126	99	41.13	IPC	6.69	6.64			0.04	1.020		45.73	11.29	11.63	-0.34	0.000		430	73	3.14			

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH	NW	SW	N	NE	E	SE	Z
AVE. OF END POINTS	0.07	0.12	0.14	0.16	0.16	0.16	0.13

NUMBER 7 RMS MIN DRMS AVE DRMS QUALITY D

7 0.10 0.00 0.16

-----END-----END-----END-----

83/11/19 14/ 3 BEGIN-----BEGIN-----83/11/19 14/ 3

DATE ORIGIN LAT LONG DEPTH MAG NO D3 GAP M RMS ERM ERZ Q SQD ADJ IN NR AVR AAR NM AVXM SOXM NF AVFM SOFM
 931119 14 3 38.56 43N57.39 113W47.85 2.20 2.34 10 21 147 1 0.08 1.3 2.0 C BIC 0.09 10 13 0.00 0.07 0 0.0 0.0 10 2.3 0.2
 SE OF ORIG = 0.092 6 ITERATIONS TOTAL

HORIZONTAL SE = 0.81 SE = 1.29 VERTICAL SE = 2.03 QUALITY = A
 AZ = -97. AZ = -7.

(- STATION DATA -) (----- P-WAVE TRAVEL-TIME DATA AND DELAYS -----) VARI (----- S-WAVE TRAVEL-TIME DATA -----) MAGNITUDE DATA ----
 STN DIST AZM AIN PSEC PRMK+TCOR-DSTTOR-TTCAL-DELAY-EDLY= P-RES P-WT THIC SSEC SRMK TT08 TTCL S-RES S-WT AMX PR RMAG R FMP FMAG
 011 1.9 210 137 39.04IPC 0.48 0.56 -0.07 1.000 40.52 1.96 0.97 0.99 0.000 432 41 2.44
 05 12.4 62 96 40.97IPC 2.41 2.33 0.08 1.000 43.33 4.77 4.08 0.69 0.000 432 59 2.74
 012 21.3 277 94 42.53IPC 3.97 3.92 0.05 1.000 46.02 8.26 8.65 -0.39 0.000 432 43 2.54
 013 23.5 308 93 43.02IPC 4.46 4.33 0.13 1.000 432 33 2.34
 04 27.0 351 93 43.50IP 4.94 4.95 0.00 1.000 432 51 2.74
 016 28.6 334 93 43.87EPC 5.31 5.22 0.09 1.000 432 26 2.14
 02 39.8 341 92 45.72EPD 7.16 7.24 -0.09 1.000 432 29 2.24
 017 45.5 326 92 46.69EP 8.13 8.25 -0.12 1.000 432 29 2.24
 01 53.7 338 65 48.22EPD 9.66 9.66 0.01 1.000 432 26 2.24
 GCI 55.8 353 65 48.48EP 9.92 10.01 -0.09 1.000 432 27 2.24

QUALITY EVALUATION

DIAGONALS IN ORDER OF STRENGTH Z NW N SE NE SW E
 AVE. OF END POINTS 0.07 0.10 0.11 0.12 0.13 0.17 0.20

NUMBER RMS MIN DRMS AVE DRMS QUALITY
 9 0.08 0.05 0.14 D