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Catalog Of First Motion Focal Mechanisms

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by

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

VOLUME 3

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ABSTRACT :

Beginning 1 January 1981, first motion focal mechanisms for large earthquakes were computed on a routine basis and reported in the *U.S.G.S Preliminary Determination of Epicenters Monthly Listing* (PDE Monthly Listing).

Between 1 January 1981 and 1 August 1982, an attempt was made to compute these first motion focal mechanisms routinely for earthquakes that had a magnitude equal to or greater than 6.5.

After 1 August 1982, the magnitude criterion was lowered to m_b magnitude equal to or greater than 5.8. However for earthquakes with a depth greater than 70 km, the magnitude criterion was m_b equal to or greater than 5.7.

The magnitudes and depths used to select the earthquakes are taken from the *U.S.G.S Preliminary Determination of Epicenters listing* (PDE)

A total of 241 focal mechanisms computed for the time period of 1981 through 1983 were reported in the *Catalog of First Motion Focal Mechanisms, 1981-1983* (Needham, 1986). A total of 227 focal mechanisms computed for the years of 1984 and 1985 are presented in this catalog.

To simplify the use of this catalog, it is being presented in three volumes. These volumes are divided into broad geographic areas to equalize the size of each volume and without particular regard for any tectonic regionalization. Volume 1 encompasses the geographic areas of North America, East-central Pacific Ocean, Middle America, South America, Atlantic Ocean, and Southeastern Europe. Volume 2 presents data for the geographic areas of continental Asia, Indian Ocean and the eastern Asian islands from the Northern Philippine Islands to Kamchatka. Volume 3 encompasses the islands of the south and southwestern Pacific Ocean, including Indonesia and the southern Philippine Islands.

The geographic areas for volumes 1, 2, and 3 are divided into 20 geographic subdivisions. The boundaries of these subdivisions are determined by the earthquake locations which could be coherently presented on a map rather than by any particular tectonic boundaries. Volume 1 is divided into 8 of these geographic subdivisions. Volume 2 is divided into 6 of these subdivisions and volume 3 into 6.

The contents of each volume of this catalog are presented in the following order:

- (1) A Mollweide map projection of the world in which the areas encompassed by each volume is outlined.
- (2) A Mollweide map projection of the world in which the geographic subdivisions of the areas covered by each volume are outlined.
- (3) A chronological listing, for each of the geographic subdivisions, of hypocenter parameters for earthquakes reported in this catalog including event numbers that will be used throughout this catalog.
- (4) A chronological listing, for each of the geographic subdivisions, of hypocenter parameters of earthquakes which met the magnitude criteria on the Monthly Listing but are not reported in this catalog.
- (5) A table showing the station code abbreviations and locations of the seismograph stations used in this catalog.
- (6) An equal area projection map for each of the geographic subdivisions with lower hemisphere focal sphere projections associated to each event by event number.

- (7) A table of focal mechanism parameters, listed by event number, for each of the geographic subdivisions.
- (8) Lower hemisphere focal sphere projections for each event including the first motions used for the focal mechanism to compute the focal mechanism for each event.
- (9) Individual seismograph station data used to compute the focal mechanism for each event.

INTRODUCTION (VOLUME 3):

This is the third of a 3 volume set that presents the first motion focal mechanisms computed by the U.S. Geological Survey for earthquakes occurring in the time period 1 January 1984 through 31 December 1985. The geographic areas encompassed by this volume include the islands of the South and Southwest Pacific Ocean including Indonesia and the southern Philippine Islands (Figure 54). The geographic area of volume 3 was divided into 6 smaller subdivisions: (15) Fiji-Tonga-Kermadec Islands, (16) Vanuatu-Loyalty Islands, (17) East New Guinea-Solomon Islands (18) Mindanao-East Indonesia (19) West Indonesia, and (20) Southwestern Pacific Ocean. The boundaries of these subdivisions are determined by the earthquake locations which could be coherently presented on a map rather than by any tectonic boundaries. These subdivisions are presented on figure 55 and as azimuthal equidistant projections, in figures 56, 66, 70, 76, 86, and 89, with the earthquake hypocenters and focal mechanisms also plotted. The symbol \times denotes hypocenters with shallow depths (0-70 km), + intermediate depths (71-300 km), and \diamond deep depths (301-700km). Table 142 shows the map name, latitude and longitude of the map center, and the radius for each azimuthal equidistant projection.

Table 142. Azimuthal equidistant projections coordinates and map radius for Volume 3.

MAP NAME	LATITUDE OF CENTER (DEGREES)	LONGITUDE OF CENTER (DEGREES)	RADIUS OF MAP (DEGREES)
FIJI-TONGA-KERMADEC ISLES.	25.0 S	173.0 W	15
VANUATU-LOYALTY ISLES.	15.0 S	170.0 E	10
E. NEW GUINEA-SOLOMON ISLES.	5.0 S	155.0 E	12
MINDANAO-EAST INDONESIA	5.0 S	125.0 E	15
WEST INDONESIA	3.0 S	105.0 E	15
SOUTHWEST PACIFIC OCEAN	50.0 S	165.0 E	15

The Flinn-Engdahl region numbers, *Flinn and Engdahl (1965)*, associated to the earthquakes within the confines of these azimuthal equidistant projections are shown in table 143.

Table 143. Flinn-Engdahl region numbers for earthquakes within Volume 3 geographic subdivisions.	
GEOGRAPHIC SUBDIVISION	REGION NUMBER
FIJI-TONGA-KERMADEC ISLES.	160, 171, 173, 174, 175, 178 179, 181, 182, 688
VANUATU-LOYALTY ISLES.	183, 184, 185, 186, 189,
E. NEW GUINEA-SOLOMON ISLES.	183, 192, 193, 194, 200,
MINDANAO-E. INDONESIA	196, 259, 263, 265, 266, 267, 268, 277, 278, 279, 280, 281 284, 285
WEST INDONESIA	274, 276, 277, 706
SOUTHWEST PASCIFIC OCEAN	161, 165, 701

EARTHQUAKE SELECTION:

The selection of earthquakes for which focal mechanisms were routinely computed was based on the magnitudes and depths reported in the USGS PDE listing. Between 1 January 1984 and 31 December 1985, the criterion for earthquake selection was either m_b equal to or greater than 5.8, or m_b equal to or greater than 5.7 if the depth was greater than 70 km.

Table 144 lists the hypocenter parameters for the earthquakes in this volume chronologically and by event number for each geographic subdivision. This listing contains a total of 113 earthquakes for which focal mechanisms were computed. Some of the earthquakes in this listing have smaller magnitudes than the above values because the selection criteria were applied to events listed in the USGS PDE listing rather than to events in the PDE Monthly Listing where focal mechanism parameters are published.

Fifteen earthquakes appearing in the Monthly Listing have magnitudes that exceed the magnitude selection criteria but are not reported in this volume. These events are listed in Table 145. Ten of these unreported events had magnitudes less than the selection criteria on the PDE and were therefore not selected. The other five events were not reported because either the quality and/or quantity of first motions was not sufficient to control the nodal planes of the focal mechanism.

COMPUTATIONS:

The focal mechanism solutions for this catalog were computed interactively rather than by a program that produces automatic solutions. Tables 147, 183, 195, 215, 251, and 260 shows the focal mechanism parameters for each of the geographic subdivisions

of volume 3. The focal angles which are listed in this catalog and plotted on a lower hemisphere focal sphere projection in figures 57-65, 67-69, 71-75, 77-85, 87-88, and 90, were derived from the earth model of *Jeffreys and Bullen (1958)*. The figures, ordered by event number (table 144), show the nodal plane configuration; the P, T and B axes of the focal mechanism; and the station data used. The size of the symbols on these focal sphere solutions depend on the source of the first motions. The large symbols denote long-period P phase first motions and the small symbols denote the short-period P phase first motions.

DATA SOURCES:

The first motion data were obtained from the following three sources: (1) the first motions reported by station analysts to the National Earthquake Information Center (NEIC); (2) the first motions determined by USGS personnel from seismograms of the World-Wide Standardized Seismograph Network (WWSSN); and (3) the first motions obtained from the waveform data of the Global Digital Seismograph Network (GDSN) and other digital seismograph networks that send digital waveform data to the USGS.

Individual station data, ordered by distance from the event, are shown in tables 148-182, 184-194, 196-214, 216-250, 252-259, and 261-263. The codes and locations for stations used in these tables and listed in the abbreviation table (table 146) were obtained from *Presgrave, Needham and Minsch (1985)*. These station data tables also show: distance in degrees; azimuth in degrees from the event to the station; $dt/d\Delta$ in seconds/degree; focal angles in degrees; and the quality, direction, and source of the first motions.

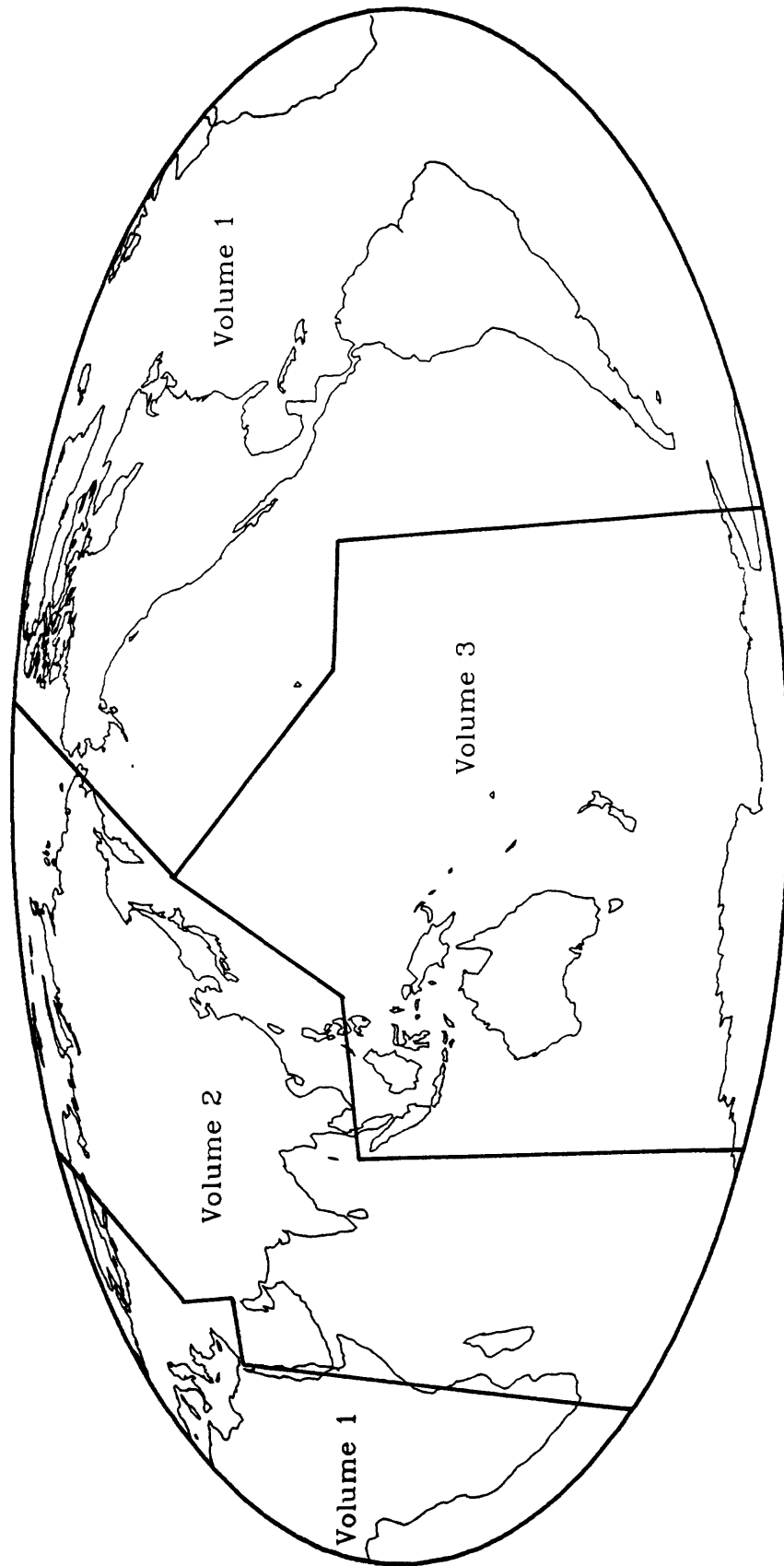
ACKNOWLEDGMENT:

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Figure 54. Mollweide projection showing geographic regions for volumes 1, 2, and 3



**Figure 55. Mollweide projection showing geographic subdivisions
for Volume 3**

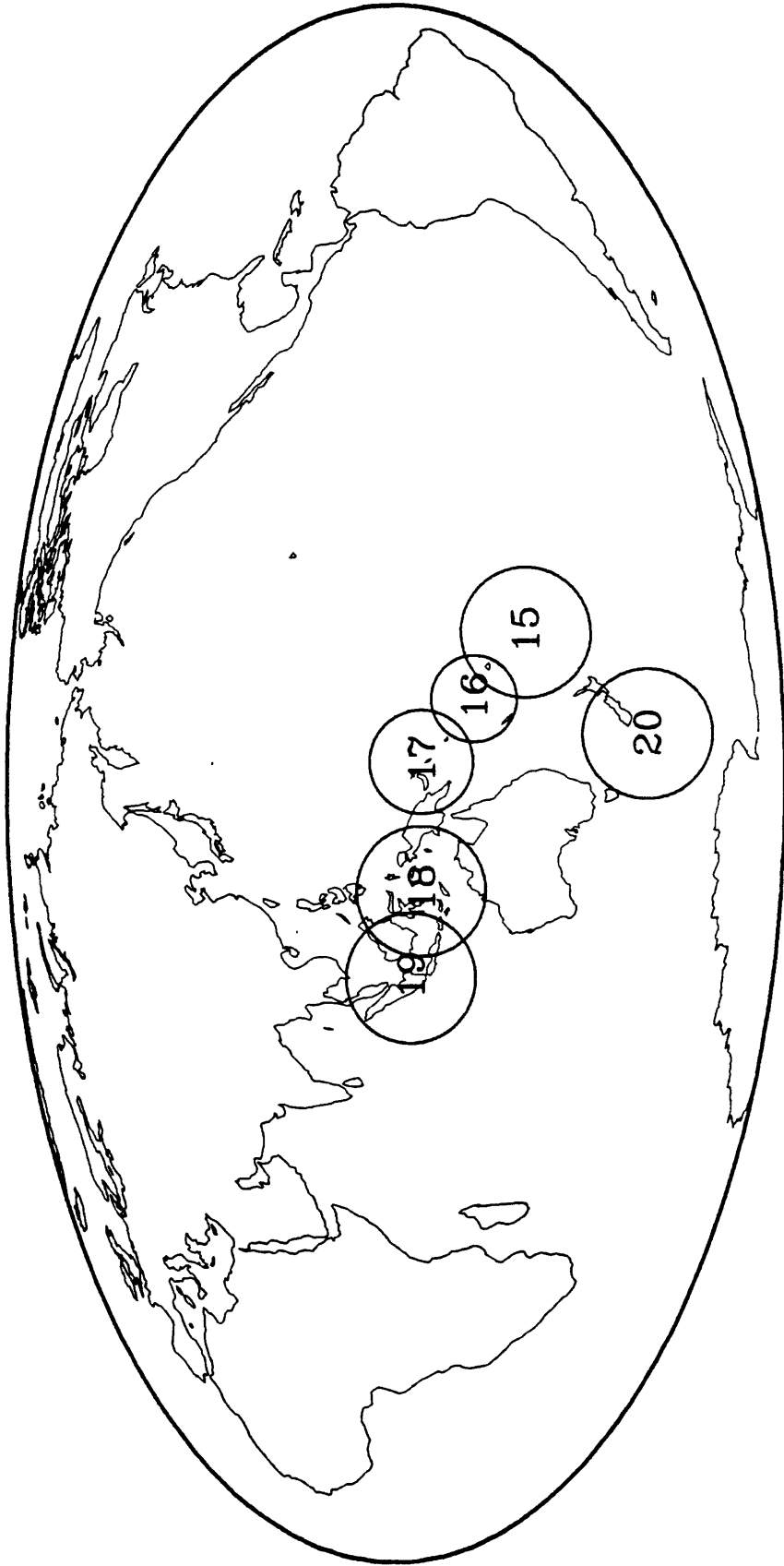


Table 144. Hypocenter parameters for events in volume 3 with focal mechanisms computed

EVT. NO.	DATE UTC	ORIGIN TIME UTC			GEOGRAPHIC COORDINATES		DEPTH km.	MAG mb MS	SD	NO. STA.	REGION
		HR	MN	SEC	LAT.	LONG.					
FIJI-TONGA-KERMADEC ISLANDS											
008	01/19/84	16	15	16.3	23.642 S	178.321 W	332	5.8	0.9	268	SOUTH OF FIJI ISLANDS
018	02/25/84	15	29	14.5	16.747 S	174.772 W	257D	5.5	1.1	205	TONGA ISLANDS
022	03/14/84	11	36	30.9	20.089 S	178.073 W	570	5.7	1.1	237	FIJI ISLANDS REGION
031	04/18/84	06	49	13.9	15.934 S	174.352 W	150D	6.0	1.1	303	TONGA ISLANDS
033	04/22/84	03	33	00.5	21.866 S	179.375 W	593D	5.7	0.9	314	FIJI ISLANDS REGION
038	04/25/84	04	19	32.0	17.311 S	177.229 W	415	5.7	1.0	293	FIJI ISLANDS REGION
046	06/15/84	14	22	23.0	15.816 S	174.831 W	247D	6.1	0.9	323	TONGA ISLANDS
053	07/03/84	13	42	00.8	17.735 S	178.847 W	536D	5.7	0.9	264	FIJI ISLANDS REGION
065	08/26/84	05	00	45.6	23.594 S	179.070 W	560D	5.9	1.0	331	SOUTH OF FIJI ISLANDS
067	08/30/84	16	06	13.9	33.332 S	179.359 W	33N	5.9 5.7	1.0	228	SOUTH OF KERMADEC ISLANDS
072	09/17/84	09	08	48.8	32.157 S	178.320 W	10G	5.8 6.4	1.3	202	SOUTH OF KERMADEC ISLANDS
076	09/28/84	00	03	34.5	25.849 S	175.911 W	21	6.4 6.8	1.1	387	SOUTH OF TONGA ISLANDS
079	10/13/84	05	32	38.8	15.771 S	177.245 E	10G	5.8 6.0	1.2	147	FIJI ISLANDS
080	10/15/84	10	21	07.5	15.860 S	173.643 W	128D	6.5	1.2	397	TONGA ISLANDS
081	10/19/84	14	37	50.8	15.888 S	173.950 W	121D	5.8	1.0	279	TONGA ISLANDS
086	10/30/84	01	05	49.9	17.109 S	174.076 W	141D	6.0	1.0	381	TONGA ISLANDS
092	11/15/84	05	52	30.5	20.388 S	177.421 W	348D	5.7	1.0	228	FIJI ISLANDS REGION
094	11/17/84	13	45	49.1	18.785 S	178.032 W	451D	6.1	1.0	452	FIJI ISLANDS REGION
099	11/22/84	17	07	36.1	17.779 S	178.050 W	646	5.9	1.0	313	FIJI ISLANDS REGION
120	02/03/85	04	50	55.2	20.547 S	174.099 W	57D	5.8	1.0	312	TONGA ISLANDS
143	04/11/85	11	55	15.1	35.598 S	179.001 E	108	5.7	1.2	231	OFF E. COAST OF N. ISLAND, N.Z.
148	04/27/85	00	33	13.0	15.798 S	173.503 W	81D	5.7	0.9	224	TONGA ISLANDS
149	04/27/85	10	11	42.6	21.032 S	176.820 W	260D	5.8	0.9	279	FIJI ISLANDS REGION
154	05/06/85	17	10	02.9	37.498 S	179.452 E	30	5.8 6.1	1.0	269	OFF E. COAST OF N. ISLAND, N.Z.
162	06/03/85	12	06	21.1	15.289 S	173.516 W	33N	6.2 6.8	1.0	374	TONGA ISLANDS
170	07/06/85	03	37	18.2	29.721 S	177.771 W	50	5.7 5.9	1.1	251	KERMADEC ISLANDS
184	08/27/85	07	39	14.4	17.530 S	173.300 W	36D	5.9 5.3	1.0	242	TONGA ISLANDS
185	08/28/85	20	50	48.3	21.011 S	178.981 W	625D	6.1	1.0	370	FIJI ISLANDS REGION
190	09/15/85	11	25	04.3	19.216 S	175.576 W	247	5.7	1.1	270	TONGA ISLANDS
191	09/15/85	17	31	00.8	16.771 S	173.880 W	81D	5.8	1.3	208	TONGA ISLANDS
195	09/26/85	07	27	51.1	34.693 S	178.656 W	52D	6.3 7.0	1.1	448	SOUTH OF KERMADEC ISLANDS
197	09/27/85	10	10	18.9	22.171 S	174.606 W	33N	5.8 6.2	1.3	237	TONGA ISLANDS REGION
203	10/12/85	02	12	57.9	21.656 S	176.382 W	155G	5.9	0.9	329	FIJI ISLANDS REGION
213	11/07/85	19	12	31.0	35.257 S	179.347 W	44G	6.2 6.3	1.0	372	EAST OF N. ISLAND, N.Z.
VANUATU-LOYALTY ISLANDS											
029	04/06/84	23	08	22.3	18.903 S	168.850 E	182D	5.7	1.3	260	VANUATU ISLANDS
042	05/26/84	22	42	47.3	10.896 S	164.183 E	27	5.8 6.2	1.2	178	SANTA CRUZ ISLANDS REGION
068	08/31/84	15	42	11.7	17.957 S	172.149 E	29	6.1 6.2	1.0	267	VANUATU ISLANDS REGION
091	11/15/84	02	46	19.8	22.022 S	170.950 E	105D	6.3	1.0	394	LOYALTY ISLANDS REGION
096	11/21/84	14	33	20.1	14.505 S	171.162 E	23	5.8 6.2	1.1	177	VANUATU ISLANDS REGION
169	07/03/85	15	55	48.7	17.243 S	167.834 E	29	5.8 6.4	1.1	173	VANUATU ISLANDS
172	07/26/85	12	18	05.5	11.373 S	166.338 E	33N	5.8 5.2	1.0	139	SANTA CRUZ ISLANDS
200	10/06/85	12	00	49.2	18.961 S	169.432 E	273	5.7	0.9	307	VANUATU ISLANDS
217	11/28/85	02	25	42.3	14.043 S	166.240 E	33N	6.0 7.0	1.0	336	VANUATU ISLANDS
221	12/16/85	08	04	07.0	14.073 S	166.251 E	37	6.0 6.7	1.2	228	VANUATU ISLANDS
222	12/21/85	01	13	22.4	13.966 S	166.516 E	43G	6.0 7.3	1.2	263	VANUATU ISLANDS
226	12/28/85	15	41	03.7	13.192 S	166.507 E	36G	5.7 6.2	1.2	191	VANUATU ISLANDS
EAST NEW GUINEA-SOLOMON ISLANDS											
014	02/07/84	21	33	21.4	10.012 S	160.469 E	18D	6.6 7.5	1.4	318	SOLOMON ISLANDS
015	02/08/84	00	39	51.0	9.815 S	160.268 E	27	6.0 6.4	1.0	197	SOLOMON ISLANDS
027	03/27/84	20	06	33.2	4.647 S	145.805 E	28	5.8 6.6	1.2	194	NEAR N. COAST OF PAPUA NEW GUINEA
030	04/13/84	22	05	07.8	5.648 S	148.296 E	168D	5.8	1.0	227	NEW BRITAIN REGION
042	05/26/84	22	42	47.3	10.896 S	164.183 E	27	5.8 6.2	1.2	178	SANTA CRUZ ISLANDS REGION
044	05/30/84	07	49	43.6	4.843 S	151.577 E	174D	6.2	1.2	302	NEW BRITAIN REGION
054	07/05/84	05	21	48.9	6.056 S	154.424 E	33N	6.0 6.5	1.1	238	SOLOMON ISLANDS
059	07/23/84	06	06	05.6	6.586 S	154.994 E	55	5.9	1.0	255	SOLOMON ISLANDS
064	08/22/84	09	07	30.4	5.680 S	148.365 E	163	5.7	0.9	201	NEW BRITAIN REGION

Table 144. Hypocenters for events in volume 3 with focal mechanisms computed continued

EVT. NO.	DATE UTC	ORIGIN TIME UTC	GEOGRAPHIC COORDINATES		DEPTH km.	MAG mb MS	SD	NO STA.	REGION
EAST NEW GUINEA-SOLOMON ISLANDS CONTINUED									
098	11/22/84	14 37 38.2	6.308 S	154.837 E	63	5.7	1.0	219	SOLOMON ISLANDS
107	12/08/84	21 10 56.3	5.677 S	149.367 E	128	5.5	1.0	92	NEW BRITAIN REGION
121	02/23/85	13 41 55.0	10.254 S	161.126 E	85D	6.0	1.0	275	SOLOMON ISLANDS
122	02/25/85	11 12 40.6	9.877 S	154.135 E	33N	5.9 5.1	0.9	152	DENTRECASTEAUX ISLANDS REGION
155	05/10/85	15 35 50.5	5.599 S	151.045 E	27	6.3 7.1	1.3	269	NEW BRITAIN REGION
168	07/03/85	04 36 51.7	4.439 S	152.828 E	33N	6.3 7.2	1.0	345	NEW BRITAIN REGION
171	07/22/85	09 26 53.8	6.291 S	148.783 E	49	5.8 6.9	1.1	252	NEW BRITAIN REGION
187	09/10/85	04 07 47.4	6.394 S	149.733 E	10G	5.8 6.3	1.1	269	NEW BRITAIN REGION
196	09/27/85	03 39 08.5	9.829 S	159.854 E	32	6.2 6.9	1.1	348	SOLOMON ISLANDS
227	12/30/85	11 13 14.8	5.546 S	150.686 E	113	5.8	0.9	246	NEW BRITAIN REGION
MINDANAO-EAST INDONESIA									
003	01/08/84	15 24 13.5	2.823 S	118.806 E	33N	6.0 6.6	1.3	240	SULAWESI
005	01/17/84	02 09 04.1	7.705 S	117.389 E	296D	5.7	1.1	204	BALI SEA
017	02/17/84	16 32 21.3	6.598 S	130.117 E	158	6.1	0.9	290	BANDA SEA
020	03/05/84	03 33 50.9	8.147 N	123.762 E	649D	6.5	0.9	489	MINDANAO, PHILIPPINE ISLANDS
028	04/01/84	09 59 01.3	5.661 S	124.831 E	601	5.7	0.9	250	BANDA SEA
056	07/11/84	05 40 20.6	5.540 N	126.479 E	55	5.8	1.1	226	MINDANAO, PHILIPPINE ISLANDS
060	07/23/84	16 03 39.6	1.384 N	126.419 E	26	5.9 6.1	1.3	231	MOLUCCA PASSAGE
062	08/06/84	12 01 52.4	0.086 S	122.517 E	242D	6.2	1.2	375	MINAHASSA PENINSULA
069	09/05/84	09 32 12.3	8.056 S	121.779 E	201	5.6	1.2	169	FLORES ISLAND REGION
078	10/04/84	16 31 53.4	9.809 S	118.787 E	34D	5.8 6.3	1.2	174	SWUMBAWA ISLAND REGION
082	10/19/84	17 45 03.4	1.437 N	125.713 E	76	5.8	1.1	218	MOLUCCA PASSAGE
084	10/26/84	08 49 24.8	1.623 N	126.291 E	56	5.8	1.2	244	MOLUCCA PASSAGE
085	10/29/84	23 18 05.1	5.731 N	125.543 E	153D	5.9	1.1	379	MINDANAO, PHILIPPINE ISLANDS
095	11/20/84	08 15 16.2	5.167 N	125.124 E	202	6.4	1.3	452	MINDANAO, PHILIPPINE ISLANDS
102	11/27/84	23 34 00.6	7.601 N	124.388 E	11D	5.8 5.7	1.1	157	MINDANAO, PHILIPPINE ISLANDS
112	01/11/85	14 41 58.5	0.196 N	123.582 E	189	5.9	1.2	308	MINAHASSA PENINSULA
115	01/21/85	00 55 22.7	0.953 S	128.507 E	33N	5.8 6.7	1.3	157	HALMAHERA
116	01/24/85	12 29 32.4	7.467 S	130.125 E	20D	5.9 5.2	1.1	203	TANIMBAR ISLANDS REGION
127	03/07/85	11 19 42.4	5.831 N	126.355 E	92	5.7	1.1	164	MINDANAO, PHILIPPINE ISLANDS
132	03/18/85	19 49 45.8	7.758 N	123.544 E	33N	6.0 6.5	1.1	275	MINDANAO, PHILIPPINE ISLANDS
136	03/25/85	11 07 19.3	6.437 S	128.767 E	249	5.7	1.0	247	BANDA SEA
144	04/13/85	01 06 00.1	9.245 S	114.185 E	99D	6.2	1.0	329	SOUTH OF BALI ISLAND
145	04/13/85	03 00 06.7	1.622 N	126.411 E	51D	6.4 6.7	1.2	394	MOLUCCA PASSAGE
146	04/21/85	13 53 00.7	5.181 S	130.443 E	79D	5.9	1.0	240	BANDA SEA
163	06/04/85	03 56 27.0	4.873 N	127.481 E	94D	6.0	0.9	263	TALAUD ISLANDS
176	08/04/85	02 36 23.8	7.496 N	123.500 E	36	5.9 6.2	1.2	228	MINDANAO, PHILIPPINE ISLANDS
177	08/08/85	16 18 02.6	6.102 S	113.491 E	592D	5.7	1.0	235	JAVA
178	08/08/85	16 29 57.9	6.097 S	113.441 E	596D	5.6	1.1	202	JAVA
186	09/03/85	23 32 47.5	1.409 N	128.153 E	114D	5.7	1.0	212	HALMAHERA
189	09/15/85	02 42 54.8	4.130 S	136.049 E	10G	5.9 6.3	1.4	261	WEST IRIAN REGION
194	09/24/85	20 28 52.4	6.405 S	130.037 E	147	5.6	1.1	175	BANDA SEA
207	10/23/85	00 49 11.1	11.109 S	125.159 E	14	6.0 5.4	0.9	264	TIMOR SEA
208	10/25/85	18 12 19.5	7.077 S	124.284 E	596D	5.9	1.0	285	BANDA SEA
216	11/17/85	09 40 21.2	1.639 S	134.911 E	10G	6.0 7.1	1.4	179	WEST IRIAN REGION
219	12/14/85	06 46 11.7	3.683 N	126.600 E	22G	5.8 6.1	1.2	235	TALAUD ISLANDS
WEST INDONESIA									
039	05/03/84	12 28 51.7	8.569 S	111.338 E	86	5.7	1.3	224	JAVA
043	05/29/84	04 36 09.0	3.565 S	97.138 E	71D	5.8	1.0	283	NORTHERN SUMATERA
055	07/09/84	23 19 03.5	5.788 S	111.298 E	534D	5.8	1.3	268	JAVA SEA
093	11/17/84	06 49 30.0	0.197 N	98.027 E	33N	6.3 7.2	1.1	440	NORTHERN SUMATERA
100	11/23/84	04 45 53.2	7.993 S	102.255 E	33N	6.0 6.7	1.2	213	SOUTHERN SUMATERA
134	03/22/85	14 42 58.6	6.584 S	105.419 E	70D	5.7	1.2	256	SUNDRA STRAIT
201	10/09/85	01 15 04.6	6.791 S	107.082 E	154D	5.9	1.3	301	JAVA
225	12/27/85	05 38 53.4	5.763 S	104.191 E	25D	5.8 6.6	1.2	267	SOUTHERN SUMATERA
SOUTHWEST PACIFIC OCEAN									
041	05/23/84	05 16 33.1	51.950 S	161.089 E	10G	5.9 5.9	1.2	240	NORTH OF MACQUARIE ISLAND
119	01/31/85	04 32 57.6	46.083 S	165.092 E	10G	5.8 6.1	1.2	208	OFF W. COAST OF S. ISLAND, N.Z.
167	07/03/85	03 11 31.5	54.820 S	146.436 E	10G	5.8 6.2	1.4	113	WEST OF MACQUARIE ISLAND

Table 145. Hypocenter parameters for events in volume 3 that met magnitude criteria but are not in this catalog.

EVT. NO.	DATE UTC	ORIGIN TIME			GEOGRAPHIC COORDINATES		DEPTH km.	MAG mb MS	SD	NO. STA.	REGION	
		UTC	HR	MN	SEC	LAT.						LONG.
FIJI-TONGA-KERMADEC ISLANDS												
	11/01/84	09	27	39.3	19.790 S	175.845 W	223D	5.7		0.9	287	TONGA LISLAND
	12/30/84	21	36	56.4	36.663 S	177.572 E	39	6.2	6.8	1.4	123	OFF E. COAST OF N. ISLAND, N.Z.
	02/01/85	00	47	16.3	17.712 S	174.371 W	118D	5.7		1.0	225	TONGA ISLANDS
	03/15/85	00	16	02.7	20.682 S	178.218 W	545	5.7		0.9	319	FIJI ISLAND REGION
	09/11/85	17	47	35.9	15.388 S	173.535 W	680	5.8		1.0	287	TONGA ISLANDS
VANUATU-LOYALTY ISLANDS												
	11/23/84	04	46	06.3	14.312 S	171.284 E	33N	6.0	6.7	1.2	130	VANUATU ISLANDS REGION
	11/28/85	03	49	54.1	13.987 S	166.185 E	33N	6.3	7.1	1.1	302	VANUATU ISLANDS
	12/21/85	02	46	33.2	14.092 S	166.654 E	33N	5.8	6.5	1.1	240	VANUATU ISLANDS
EAST NEW GUINEA-SOLOMON ISLANDS												
	09/30/84	20	48	45.9	6.056 S	148.540 E	75	5.8		1.1	171	NEW BRITAIN REGION
	01/17/85	21	44	11.2	3.684 S	141.734 E	28	5.8	5.8	1.1	207	PAPUA NEW GUINEA
	10/29/85	14	10	39.4	9.569 S	150.989 E	10G	6.1	6.7	1.1	219	EAST PAPUA NEW GUINEA
MINDANAO-EAST INDONESIA												
	09/20/84	06	42	52.8	6.562 S	132.022 E	55	5.8		1.0	144	TANIMBAR ISLAND REGION
	08/12/85	04	18	59.0	6.997 S	117.215 E	599D	5.7		1.0	288	BALI SEA
	12/06/85	22	26	25.5	1.636 S	134.910 E	25D	5.8	5.8	1.1	143	WEST IRIAN REGION
SOUTHWEST PACIFIC OCEAN												
	06/24/84	13	29	39.2	43.541 S	170.673 E	6	5.8	6.1	1.4	173	SOUTH ISLAND, N.Z.

TABLE 146

Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
AAE	Addis Ababa, Ethiopia	BLF	Bloemfontein, Orange Free State, South Africa
AAM	Ann Arbor, Michigan, U.S.A.	BMA	Borro Mansa, Rio de Janeiro, Brazil
AAI	Ambon, Maluku, Indonesia	BMN	Battie Mountain, Nevada, U.S.A.
AAS	Arctowski Station, South Shetland Islands, Antarctica	BMR	Baia Mare, Romania
ABJ	Abashiri, Hokkaido, Japan	BNG	Bangui, Central African Republic
ACM	Allegan, Michigan, U.S.A.	BNH	Berlin, New Hampshire, U.S.A.
ACO	Alabaster Cavern State Park, Oklahoma, U.S.A.	BNS	Bensberg, Nordrhein-Westfalen, Fed. Rep. of Germany
ACX	Acapulco, Guerrero, Mexico	BNT	Bandirma, Turkey
ADE	Adelaide (Mount Bonython), South Australia, Australia	BOCO	Bogota, Colombia
ADH	Angra do Heroismo, Azores, Portugal	BOG	Bogota, Colombia
ADK	Adak, Alaska, U.S.A.	BOH	Bahacortia, Bearn, France
AFC	Alfacar, Spain	BOM	Bomboy (Colaba), Maharashtra, India
AFI	Afiama, Samoa Islands	BPA	Boggy Peak, Antigua and Barbuda
AHA	Ahua, Hawaii, U.S.A.	BPI	Bernard Price Institute, Johannesburg Transvaal, South Africa
AJI	Ajiro, Honshu, Japan	BQA	Mbengga, Fiji
AKU	Akureyri, Iceland	BRG	Berggiesshubel, German Dem. Rep.
ALE	Alert, Northwest Territories, Canada	BRK	Berkeley--Haviland, California, U.S.A.
ALI	Alicante, Spain	BRL	Berlin--Free University Berlin (West), Fed. Rep. of Germany
ALM	Almeria, Spain	BRN	Berlin, Berlin (West), Fed. Rep. of Germany
ALP	Ascoli Piceno, Marche, Italy	BRS	Brisbane, Queensland, Australia
ALO	Albuquerque, New Mexico, U.S.A.	BRT	Bari-Castellano, Puglia, Italy
ALT	Altintos, Turkey	BRY	Bratogov, Yugoslavia
AMM	Anoconda, Montana, U.S.A.	BSF	Ballan de Servance, Franche Comte, France
AN10	Anna, Ohio, U.S.A.	BSI	Banda Aceh, Sumatera, Indonesia
AN11	Anna, Ohio, U.S.A.	BTO	Boatou (Paotou), Inner Mongolia, China (Mainland)
AN12	Anna, Ohio, U.S.A.	BTO	Boatou (Paotou), Inner Mongolia, China (Mainland)
AN3	Anna, Ohio, U.S.A.	BUC	Bucharest, Romania
AN4	Anna, Ohio, U.S.A.	BUC1	Bucharest, Romania
AN7	Anna, Ohio, U.S.A.	BUD	Budapest, Hungary
AN8	Anna, Ohio, U.S.A.	BUH	Buehlerhoehe, Baden-Wuerttemberg, Fed. Rep. of Germany
AN9	Anna, Ohio, U.S.A.	BUL	Bulawayo, Zimbabwe
ANM	Nome--Anvil Mountain, Alaska, U.S.A.	BUS	Buena Vista, Costa Rica
ANMO	Albuquerque, New Mexico, U.S.A.	BUT	Butte, Montana, U.S.A.
ANP	Anpu, China (Taiwan)	CAF	Calviac, Auvergne, France
ANR	Andizhan, Uzbek S.S.R., U.S.S.R.	CAI	Caica, Rio Grande do Norte, Brazil
ANT	Antofagasta, Antofagosto, Chile	CAN	Canberra, Australian Cap. Terr., Australia
ANTO	Ankara, Turkey	CAR	Caracas, Venezuela
AOU	L'Aquila, Abruzzo, Italy	CAW	Cannon Point, North Island, New Zealand
AR6	Chiripo, Costa Rica	CBI	Chichi-shimo (Chichijima), Bonin Islands, Japan
ARE	Arequipa (Charocoto), Peru	CBX	Cerro Bolo, Baja California, Mexico
ARN	Arnold Ranch, California, U.S.A.	CBZ	Campbell Island, Campbell Island, New Zealand
ARO	Arto Observatory, Djibouti	CCH	Cochabamba, Bolivia
ARU	Arti, R.S.F.S.R., U.S.S.R.	CCMT	Clark Canyon Reservoir, Montana, U.S.A.
ASA	Asahikawa, Hokkaido, Japan	CCP	Cebu City (Lahug), Cebu, Philippines
ASPA	Alice Springs, Northern Territory, Australia	CD2	Chengdu (Chengt'u), Sichuan, China (Mainland)
ATA	Ator, Djibouti	CDF	Champ du Feu, Alsace, France
ATB	Altamira, Para, Brazil	CDM	Cerro de la Muerte, Costa Rica
ATH	Athens Observatory, Greece	CDR	Cadarache, Provence, France
ATO	Altona, Oklahoma, U.S.A.	CDY	Cape Darby, Alaska, U.S.A.
AVE	Averroes, Morocco	CEA	Ceahlau, Romania
AVF	Avril sur Loire, Nivernais, France	CEN	Cerro Negro, San Juan, Argentina
AVY	Angovokely, Madagascar	CER	Ceres, Cape Province, South Africa
BAA	Buenos Aires, Buenos Aires, Argentina	CEY	Cerknica, Yugoslavia
BACH	Lo Bornechea, Santiago, Chile	CFA	Coronel Fontana, San Juan, Argentina
BAF	Belacker, Alsace, France	CFI	College Fiard, Alaska, U.S.A.
BAG	Baguio City, Luzon, Philippines	CFR	Carcoliu, Romania
BAL	Ballidu, Western Australia, Australia	CGN	Calugoreni, Romania
BAO	Brasilia Array, Distrito Federal, Brazil	CGP	Cagayan de Oro, Mindanao, Philippines
BAR	Barrett, California, U.S.A.	CHCH	Chados Angostura, Santiago, Chile
BBi	Big Bend, Idaho, U.S.A.	CHG	Chiang Mai, Thailand
BCAO	Bangui, Central African Republic	CHO	Choshi, Honshu, Japan
BCK	Bucak, Turkey	CHTO	Chiang Mai, Thailand
BDF	Brasilia, Distrito Federal, Brazil	CIN	Cine, Turkey
BDT	Bhumibol Dam, Thailand	CIR	Chiredzi, Zimbabwe
BDW	Boulder, Wyoming, U.S.A.	CLC	China Lake, California, U.S.A.
BEC	Bermuda--Columbia, Bermuda	CLI	Colanesti, Romania
BER	Bergen, Norway	CLK	Chileka, Malawi
BFD	Bellfield, Victoria, Australia	CLL	Coilmburg, German Dem. Rep.
BFS	Buffelsfontein, Transvaal, South Africa	CLO	Closani, Romania
BGF	Bais d'Agland, Bourbonnais, France	CLX	Calix Mountain, Montana, U.S.A.
BGG	Burg Eltz, Rheinland-Pfalz, Fed. Rep. of Germany	CMP	Compulung, Romania
BHD	Baghdad, Iraq	CMS	Cobar Meteorology Station, New South Wales, Australia
BHG	Bod Reichenhall, Bayern, Fed. Rep. of Germany	CN2	Changchun, Jilin, China (Mainland)
BHO	Bethel, Oklahoma, U.S.A.	CNG	Changalane, Mazambique
BIM	Bigot, Martinique	CNP	Catarman, Samar, Philippines
BJI	Beijing (Peking), Beijing, China (Mainland)	COI	Coimbra, Portugal
BKB	Balikpapan, Kalimantan, Indonesia	COL	College Outpost, Alaska, U.S.A.
BKR	Bakuriani, Georgian S.S.R., U.S.S.R.	COM	Comitan, Chiapas, Mexico
BKS	Berkeley--Byerly, California, U.S.A.		
BLA	Blacksburg, Virginia, U.S.A.		

TABLE 146

Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
CON	Concepcion, Concepcion, Chile	ESCF	Escot, Bearn, France
COO	Cooney (Armidale), New South Wales, Australia	ESK	Eskdalemuir, Scotland, United Kingdom
COP	Copenhagen, Denmark	ESR	Escape Road, Hawaii, U.S.A.
COR	Corvallis, Oregon, U.S.A.	ESY	Stoneypath, Scotland, United Kingdom
COZ	Cozio, Romania	ETA	Tara, Eire
CPK	Cone Peak, Hawaii, U.S.A.	EUR	Eureka, Nevada, U.S.A.
CR1	Chicoasen Reservoir No. 1, Chiapas, Mexico	EVA	Evander, Transvaal, South Africa
CR4	Chicoasen Reservoir No. 4, Chiapas, Mexico	EVAL	Valverde del Camino, Spain
CR5	Chicoasen Reservoir No. 5, Chiapas, Mexico	EZN	Ezine, Turkey
CR6	Chicoasen Reservoir No. 6, Chiapas, Mexico	FBA	Fairbanks, Alaska, U.S.A.
CRM	Caravelle, Martinique	FBAL	Fairbanks—Long Period, Alaska, U.S.A.
CRT	Cortuja (Granada), Spain	FBAS	Fairbanks—Short Period, Alaska, U.S.A.
CRX	Cerrilla, Mexico, Mexico	FCC	Fort Churchill, Manitoba, Canada
CSIL	Creol Springs, Illinois, U.S.A.	FCH	Farrellones, Santiago, Chile
CSN	Chicoasen, Chiapas, Mexico	FDL	Fort de France (Marne des Cadets), Martinique
CTA	Charters Towers, Queensland, Australia	FFC	Flin Flon, Manitoba, Canada
CTAO	Charters Towers, Queensland, Australia	FHC	Fickle Hill, California, U.S.A.
CTI	Castello Tesino, Trentino-Alto Adige, Italy	FIR	Firenze Ximeniana (Florence), Toscana, Italy
CTT	Catalca, Turkey	FKJ	Fukue, Kyushu, Japan
CUM	Cumana, Venezuela	FKK	Fukuoka, Kyushu, Japan
CVF	Calvi, Corsica, France	FKS	Fukushima, Honshu, Japan
CVO	Covasna, Romania	FLN	La Faliniere, Normandie, France
CVP	Callao Caves, Luzon, Philippines	FOC	Focsoni, Romania
CWC	Cottonwood Creek, California, U.S.A.	FRB	Frabisher, Northwest Territories, Canada
CYA	Chaya, Santiago del Estero, Argentina	FRF	La Foret Royale, Provence, France
DAF	Dafare, Djibouti	FRI	Friant, California, U.S.A.
DAG	Danmarkshavn, Greenland	FSA	Cafoyete, Salta, Argentina
DAV	Davao, Mindanao, Philippines	FUK	Fukui, Honshu, Japan
DBN	De Bilt, Netherlands	FUR	Fuerstenfeldbruck, Bayern, Fed. Rep. of Germany
DCI	Dry Creek, Idaho, U.S.A.	FVM	French Village, Missouri, U.S.A.
DCN	Craghan, Eire	GAC	Glen Almond, Quebec, Canada
DDK	Dunsink Observatory, Eire	GAP	Garmisch-Partenkirchen, Bayern, Fed. Rep. of Germany
DDR	Dodaira, Honshu, Japan	GBA	Gauribidonur Array, Karnataka, India
DES	Desert, Hawaii, U.S.A.	GBD	Fort Gibson, Oklahoma, U.S.A.
DEV	Devo, Romania	GCC	Granite Creek, California, U.S.A.
DIM	Dimitrovgrad, Bulgaria	GDH	Gadhavn, Greenland
DIX	Grand Dixence, Switzerland	GEO	Georgetown, District of Columbia, U.S.A.
DKM	Kilmashogue, Eire	GIB	Gibilmanno, Sicily, Italy
DL2	Dalian (Luda), Liaoning, China (Mainland)	GIE	Galapagos Islands, Galapagos Islands, Ecuador
DLE	Lyons Estate, Eire	GLA	Glamis, California, U.S.A.
DMK	Demirkoy, Turkey	GLD	Golden, Colorado, U.S.A.
DMN	Daman, Nepal	GNZ	Gisborne, North Island, New Zealand
DMU	Kingscourt, Eire	GOL	Golden (Bergen Park), Colorado, U.S.A.
DON	Dangala, Missouri, U.S.A.	GPA	Galpazari, Turkey
DOU	Dourbes, Belgium	GRA1	Graefenberg Array (Haidhof) Bayern, Fed. Rep. of Germany
DRV	Dumont d'Urville (Pointe Geologie, Adelie) Greater Antarctica, Antarctica	GRB1	Graefenberg Array (Bruennthal) Bayern, Fed. Rep. of Germany
DSH	Dushonbe (Stalinabad), Tajik S.S.R., U.S.S.R.	GRC	Garchy, Nivernais, France
DST	Dursunbey, Turkey	GRC1	Graefenberg Array (Eglafsdorf) Bayern, Fed. Rep. of Germany
DUG	Dugway, Utah, U.S.A.	GRF	Grafenberg Array (Erlangen) Bayern, Fed. Rep. of Germany
DUI	Duronia, Molise, Italy	GRFO	Graefenberg, Bayern, Fed. Rep. of Germany
DZM	Mont Dzumac, New Caledonia	GRG	Griva, Greece
EAB	Aberfayle, Scotland, United Kingdom	GRM	Grahamstown, Cape Province, South Africa
EAU	Auchincorn, Scotland, United Kingdom	GRR	Garron, Normandie, France
EBH	Black Hill, Scotland, United Kingdom	GRS	Garis, Armenian S.S.R., U.S.S.R.
EBL	Broadlaw, Scotland, United Kingdom	GSC	Galdstone, California, U.S.A.
ECA	El Cajon, California, U.S.A.	GSH	Grasshau, Nordrhein-Westfalen, Fed. Rep. of Germany
ECB	Carrickbyrne Hill, Eire	GTA	Gotai, Gansu, China (Mainland)
ECH	Echery (Ste.-Marie-aux-Mines), Lorraine, France	GUA	Guam (Santa Rosa), Guam, Mariana Islands
ECK	Couldkine Hill, Scotland, United Kingdom	GUD	Guadarrama, Spain
ECP	Cornsore Point, Eire	GUMO	Guam, Guam, Mariana Islands
EDC	Edincik, Turkey	GUV	Guri, Venezuela
EDI	Edinburgh, Scotland, United Kingdom	GWF	Grand Wintersberg, Alsace, France
EDM	Edmonton, Alberta, Canada	GYA	Guiyang (Kweiyang), Guizhou, China (Mainland)
EDU	Dundee, Scotland, United Kingdom	GZH	Guangzhou (Canton), Guangdong, China (Mainland)
EHOR	Hornochuelos, Spain	GZR	Guro Zlata, Romania
EKA	Eskdalemuir Array, Scotland, United Kingdom	HAC	Hachinohe, Honshu, Japan
ELL	Elmalı, Turkey	HAM	Hamburg, Hamburg, Fed. Rep. of Germany
ELO	Logiealmond, Scotland, United Kingdom	HAU	Houdompre, Franche Comte, France
ELT	Yeltsovka, R.S.F.S.R., U.S.S.R.	HCY	Herceg Novi, Yugoslavia
EMS	Emosson-Mur, Switzerland	HDC	Heredia, Costa Rica
ENIJ	N jar, Spain	HFS	Hagfors, Sweden
ENN	Epen, Netherlands	HHC	Hohhot, Inner Mongolia, China (Mainland)
ENX	Ensenada, Baja California, Mexico	HIM	Himeji, Honshu, Japan
EPA	Esparza, Costa Rica	HIR	Hiroshima, Honshu, Japan
EPF	Esporros, Gascogne, France	HJJ	Hachijo-jima (Hatidyazima), Bonin Islands, Japan
EPLA	Plasencia, Spain	HKC	Hong Kong, Hong Kong
EPT	El Paso, Texas, U.S.A.	HLD	Halaksitan, Djibouti
ERC	Erice, Sicily, Italy		
ESA	Esa Ala, D'Entrecasteaux Islands, Papua New Guinea		

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Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
HLP	Hilina Pali, Hawaii, U.S.A.	KIS	Kishinev, Moldavian S.S.R., U.S.S.R.
HLW	Heliwan, Egypt	KJF	Kajaani, Finland
HMM	Hamomatsu (Hamamotu), Honshu, Japan	KKM	Kota Kinabalu, Sabah, Malaysia
HNM	Heniu Mare, Romania	KKN	Kakani, Nepal
HNR	Honiara, Solomon Islands	KLB	Kellerberrin, Western Australia, Australia
HOF	Hof, Bayern, Fed. Rep. of Germany	KLK	Kalgaarlie, Western Australia, Australia
HON	Honolulu, Hawaii, U.S.A.	KLL	Kallitispere Nordrhein-Westfalen, Fed. Rep. of Germany
HPU	Hale Pohaku, Hawaii, U.S.A.	KMG	Kumagaya, Honshu, Japan
HRT	Hereke, Turkey	KMI	Kunming, Yunnan, China (Mainland)
HRV	Halter Research Foundation—York Bridge Montano, U.S.A.	KMR	Kremsmuenster, Austria
HUA	Huancayo, Peru	KNA	Kununurro, Western Australia, Australia
HVD	Hendrik Verwoerd Dam, Cape Province, South Africa	KNH	Kipuka Nene, Hawaii, U.S.A.
HYB	Hyderabad—Nat. Geophysical Research Inst. Andhra Pradesh, India	KNK	Knik Glacier, Alaska, U.S.A.
ICR	Volcan Irozu, Costa Rica	KNT	Kendrikan, Greece
IFR	Ifrane, Morocco	KOB	Kobe, Honshu, Japan
IIC	Santo Rita Coyotepec, Mexico, Mexico	KOC	Kochi, Shikoku, Japan
IID	Iido, Honshu, Japan	KOD	Kodaikanal, Tamil Nadu, India
III	Iguala—Cerro de Tuxpan, Guerrero, Mexico	KOF	Kofu, Honshu, Japan
IIM	Instituto de Ingenieria, UNAM Distrito Federal, Mexico	KON	Kongsberg, Norway
IIP	El Pino, Mexico	KONO	Kongsberg, Norway
IIT	Tonantzintla, Puebla, Mexico	KOU	Koumuc, New Caledonia
ILT	Iultin, R.S.F.S.R., U.S.S.R.	KRA	Krakow, Poland
IMA	Indian Mountain, Alaska, U.S.A.	KRI	Korai, Zimbabwe
IN1	Indiano Arroy, Indiana, U.S.A.	KRO	Koro, Fiji
IN2	Indiano Arroy, Indiana, U.S.A.	KRP	Koropiro, North Island, New Zealand
IN3	Indiano Arroy, Indiana, U.S.A.	KSH	Kashi (Kashgar), Xinjiang, China (Mainland)
IN4	Indiano Arroy, Indiana, U.S.A.	KSP	Ksiaz, Poland
INK	Inuvik, Northwest Territories, Canada	KSR	Koster, Transvaal, South Africa
INY	Ithaca, New York, U.S.A.	KSU	Kousaur, Djibouti
IPM	Ipah, Peninsular Malaysia, Malaysia	KTG	Kap Tobin, Greenland
IR2	Iron Long-Period Arroy, Iran	KUM	Kumamoto, Kyushu, Japan
IR4	Iron Long-Period Arroy, Iran	KUS	Kushiro, Hokkaido, Japan
IR5	Iron Long-Period Arroy, Iran	KVG	Kavieng, New Ireland, Papua New Guinea
IR7	Iron Long-Period Arroy, Iran	KVT	Kavak, Turkey
IRZ	Volcan Irozu, Costa Rica	KYS	Kiyosumi, Honshu, Japan
ISA	Isabella, California, U.S.A.	KZN	Kozani, Greece
ISI	Ishigaki-shimo, Ryukyu Islands, Japan	LAC	Landers, California, U.S.A.
ISK	Istanbul—Kondilli, Turkey	LAT	Loe, New Guinea, Papua New Guinea
ISN	Ishinomaki, Honshu, Japan	LAV	Laguna Verde, Valparaiso, Chile
ISQ	Mount Isa, Queensland, Australia	LBF	Les Buteaux, Nivernois, France
ISR	Istria, Romania	LCCM	Lewis and Clark Coversns, Montana, U.S.A.
ISSF	Issarbe, Beorn, France	LCI	Lecce, Puglia, Italy
IST	Istanbul, Turkey	LCR	La Lucha, Costa Rica
ITR	Itoporica, Pernambuco, Brazil	LDF	La Druitiere, Normandie, France
IZM	Izmir, Turkey	LDM	Libby Dam, Montana, U.S.A.
IZU	Izuhoro, Kyushu, Japan	LEM	Lembang, Jawa, Indonesia
JACH	Jahuel, Aconcagua, Chile	LFF	La Frestal, Guyenne, France
JAS	Jamestown, California, U.S.A.	LGBM	Gray Butte, California, U.S.A.
JAS1	Jamestown, California, U.S.A.	LGN	Lagunillas, Venezuela
JAU	Jaout, Beorn, France	LGR	Logrono, Spain
JAY	Jayapura, Irian Jaya, Indonesia	LHC	Lakehead University (Thunder Bay), Ontario, Canada
JCK	Jackerath, Nordrhein-Westfalen, Fed. Rep. of Germany	LHD	Little Hoods Mountain, Montana, U.S.A.
JCT	Junction, Texas, U.S.A.	LHE	Lhers, Beorn, France
JER	Jerusalem, Israel	LIS	Lisbon, Portugal
JHP	Judd Hill Plantation, Arkansas, U.S.A.	LIT	Litokhoron, Greece
JMB	Yambol, Bulgaria	LJU	Ljubljana (Ljubach), Yugoslavia
JOS	Jasvato, Hungary	LLA	Llanada, California, U.S.A.
JOZ	Jozini, Natal, South Africa	LLS	Linthal—Limern, Switzerland
KA AO	Kabul, Afghanistan	LM2	Lima (Magdalena), Peru
KAE	Kaeno, Hawaii, U.S.A.	LMG	Lamington, New Guinea, Papua New Guinea
KAG	Kagoshima, Kyushu, Japan	LMR	Lo Moure, Provence, France
KAS	Kastamonu, Turkey	LVN	Longavila, Valparaiso, Chile
KBA	Barrage Koeinbrein, Austria	LOE	Loei, Thailand
KBL	Kabul, Afghanistan	LON	Longmire, Washington, U.S.A.
KBS	Kingsbay, Svalbard, Norway	LOR	Lormes (Somee), Nivernois, France
KCT	Karacobey, Turkey	LPA	La Plata, Buenos Aires, Argentina
KDC	Kodiak, Alaska, U.S.A.	LPB	La Paz, Bolivia
KDS	Kedaougou, Senegal	LPF	Le Pertre, Orleansois, France
KDZ	Kurdzhali, Bulgaria	LPG	La Plagne, Savoie, France
KEV	Kevo, Finland	LPD	Le Pauchou, Guyenne, France
KGM	Kluang, Peninsular Malaysia, Malaysia	LPS	La Palma, El Salvador
KGT	Karabigo, Turkey	LQT	Los Queltehues, Santiago, Chile
KHC	Kasperske Hory, Czechoslovakia	LRG	Lorgues, Provence, France
KHE	Kheis, R.S.F.S.R., U.S.S.R.	LRM	Limekiln Ridge, Montana, U.S.A.
KHI	Kahhk, Iran	LSA	Lhaso, Tibet, China (Mainland)
KHT	Khao Loem Dam, Thailand	LSF	La Sauterraine, Marche, France
KHU	Kahuku, Hawaii, U.S.A.	LST	Lane Star, Missouri, U.S.A.
KIC	Kason Baka, Ivory Coast	LSZ	Lusako, Zambia
KIP	Kipapa, Hawaii, U.S.A.	LTX	Lojitos, Texas, U.S.A.

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Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
LWI	Lwiro, Zaire	NAV	Narrows, Virginia, U.S.A.
LZH	Lanzhou (Lanchou), Gansu, China (Mainland)	NC3	Narsor Array Site 03C00, Norway
MADF	Madeleine, Bearn, France	NDI	New Delhi (Delhi), Delhi, India
MAJO	Matsushiro, Honshu, Japan	NED	Newark, Delaware, U.S.A.
MAL	Malaga, Spain	NEM	Nemuro, Hokkaido, Japan
MAN	Manila (Diliman), Luzon, Philippines	NEW	Newport, Washington, U.S.A.
MAP	Mactan, Cebu, Philippines	NGN	Nagano, Honshu, Japan
MAT	Matsushiro, Honshu, Japan	NGO	Naga, Ryukyu Islands, Japan
MAW	Mawson, Greater Antarctica, Antarctica	NGS	Nagasaki, Kyushu, Japan
MBC	Mould Bay, Northwest Territories, Canada	NII	Niigata, Honshu, Japan
MBL	Marble Bar, Western Australia, Australia	NJ2	Nanjing, Jiangsu, China (Mainland)
MBO	Mbour, Senegal	NKI	Nikolski, Alaska, U.S.A.
MBU	Mbu, Fiji	NNA	Nana, Peru
MCO	Macquarie Island, Macquarie Island, Australia	NNT	Nong Plab, Thailand
MCW	Mount Constitution, Washington, U.S.A.	NOP	Nopah Range, California, U.S.A.
MDJ	Mudanjiang, Heilongjiang, China (Mainland)	NOU	Noumea, New Caledonia
MDN	Morne Daniel, Dominico	NPA	Nampula, Mozambique
MDZ	Mendoza, Mendoza, Argentina	NPH	North Pit, Hawaii, U.S.A.
MEI	Melilli, Basilicata, Italy	NRA0	NORESS Array Site A0, Norway
MEK	Meekatharra, Western Australia, Australia	NRN	Naryn, Kirghiz S.S.R., U.S.S.R.
MEM	Membach, Belgium	NST	Nakhon Sawan, Thailand
MEX	Mexico City, Distrito Federal, Mexico	NUR	Nurmijarvi, Finland
MFF	Saint Martin du Fouillaux, Poitou, France	NWAO	Narragin, Western Australia, Australia
MGD	Magadan 1, R.S.F.S.R., U.S.S.R.	OBN	Obninsk, R.S.F.S.R., U.S.S.R.
MHC	Mount Hamilton (Lick Observatory), California, U.S.A.	OBO	Obock, Djibouti
MHI	Mashhad, Iran	OCN	Over Castle Rock, New York, U.S.A.
MIM	Milo, Maine, U.S.A.	OCO	Oklahoma City, Oklahoma, U.S.A.
MIN	Mineral, California, U.S.A.	OFU	Ofunato, Honshu, Japan
MIS	Mishima, Honshu, Japan	OGA	Obergurgl, Austria
MIT	Mito, Honshu, Japan	OGF	Ogeu, Bearn, France
MIY	Miyako, Honshu, Japan	OHR	Ohrid, Yugoslavia
MKA	Makopuhi, Hawaii, U.S.A.	OIT	Oita, Kyushu, Japan
MKL	Makali, Djibouti	OKA	Okayama, Honshu, Japan
MKS	Ujungpondang (Makassar), Sulawesi, Indonesia	ONA	Onahama, Honshu, Japan
MLH	Mauna Loa, Hawaii, U.S.A.	ORI	Oriolo, Calabria, Italy
MLR	Muntele Rosu, Romania	ORO	Orapa, Piemonte, Italy
MLS	Moulis, Gascogne, France	ORT	Oak Ridge, Tennessee, U.S.A.
MLX	Mauna Loa 2, Hawaii, U.S.A.	ORV	Oroville, California, U.S.A.
MMB	Musomishta, Bulgaria	OSA	Osaka, Honshu, Japan
MMK	Mattmark, Switzerland	OSH	Oshima, Bonin Islands, Japan
MMN	Marmanna, Calabria, Italy	OSK	Osaka (Takayosuyama), Honshu, Japan
MNA	Mina, Nevada, U.S.A.	OSS	Ovo Spin, Switzerland
MNG	Mangahao, North Island, New Zealand	OTT	Ottawa, Ontario, Canada
MNI	Manado, Sulawesi, Indonesia	OUR	Ouranopolis, Greece
MNS	Mont Asola, Lazio, Italy	OUT	Outlet, Hawaii, U.S.A.
MNT	Montreal, Quebec, Canada	OWA	Owase, Honshu, Japan
MNV	Mino, Nevada, U.S.A.	OXM	Oxtotitlan, Mexico, Mexico
MOM	Momote, Admiralty Islands, Papua New Guinea	OYM	Oyama, Honshu, Japan
MOT	McDonald Observatory, Texas, U.S.A.	OZB	Mount Ozzard, British Columbia, Canada
MOX	Maxo, German Dem. Rep.	OZC	Ocozacuautla, Chiapas, Mexico
MRC	Margantown, West Virginia, U.S.A.	PAA	Panguno, Bougainville Island, Papua New Guinea
MRK	Mariako, Honshu, Japan	PAD	Padova, Veneto, Italy
MRL	Marmol, Guatemala	PAL	Palisades, New York, U.S.A.
MRT	Muramaisaki, Shikoku, Japan	PAP	Pandan, Panay, Philippines
MRWA	Marawa, Western Australia, Australia	PARM	Anticline Ridge, California, U.S.A.
MSI	Messina I.N.G., Sicily, Italy	PAS	Posadena, California, U.S.A.
MSL	Mosul, Iraq	PBJ	Presa Benito Juarez, Oaxaca, Mexico
MSO	Missoula, Montana, U.S.A.	PBX	Punta Banda, Baja California, Mexico
MSZ	Milford Sound, South Island, New Zealand	PCA	Pinnacle, Alaska, U.S.A.
MSZ	Milford Sound, South Island, New Zealand	PCC	Pilarcitos Creek, California, U.S.A.
MTD	Mount Dorwin, Zimbabwe	PCH	Pirque, Santiago, Chile
MTE	Manteigas, Portugal	PCO	Ponca City, Oklahoma, U.S.A.
MTH	Montachique, Portugal	PCR	La Plaine des Cafres, Reunion
MTN	Manton, Northern Territory, Australia	PCRM	Curry Mountain, California, U.S.A.
MTS	Matsue, Honshu, Japan	PCT	Pok Chang, Thailand
MTY	Matsuyama (Matuyama), Shikoku, Japan	PDA	Ponta Delgada, Azores, Portugal
MUD	Monsted Underground, Denmark	PDI	Parto d'Ischia, Campania, Italy
MUN	Mundaring, Western Australia, Australia	PEL	Peldehue, Santiago, Chile
MVH	Mountaint View, Hawaii, U.S.A.	PET	Petropavlovsk-Kamchatskiy, R.S.F.S.R., U.S.S.R.
MVI	Minomi-daito-jima, Ryukyu Islands, Japan	PGC	Pacific Geoscience Centre, Sidney British Columbia, Canada
MVM	Montagne du Vaucelin, Martinique	PGP	Puerto Galera, Mindoro, Philippines
MWC	Mount Wilson, California, U.S.A.	PHAM	Harlan Ranch, California, U.S.A.
MWH	Makuaweoweo, Hawaii, U.S.A.	PHC	Port Hardy, British Columbia, Canada
MYK	Miyako-jima, Ryukyu Islands, Japan	PIM	Presa del Infiernillo, Michoacan, Mexico
MZF	Mazirat, Bourbonnais, France	PIO	Pinotepa Nacional, Oaxaca, Mexico
MZX	Mazatlan, Sinaloa, Mexico	PIP	Pasquin, Luzon, Philippines
NAG	Nagayo, Honshu, Japan	PJG	Potts Junction, Guam, Mariana Islands
NAH	Naha, Ryukyu Islands, Japan	PKI	Phulchoki, Nepal
NAI	Nairobi, Kenya	PKR	P.K. Le Roux Dam, Orange Free State, South Africa
NAU	Nanutarra, Western Australia, Australia	PLD	Plovdiv, Bulgaria

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Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
PLDF	Lo Plantade, Auvergne, France	RRO	Red Rock Canyon, Oklahoma, U.S.A.
PLM	Palomar, California, U.S.A.	RSCP	Cumberland Plateau, Tennessee, U.S.A.
PLP	Palo, Leyte, Philippines	RSNT	Yellowknife, Northwest Territories, Canada
PME	Palmer East, Alaska, U.S.A.	RSNY	Adirondack, New York, U.S.A.
PMG	Port Moresby, New Guinea, Papua New Guinea	RSDN	Red Lake, Ontario, Canada
PMF	Pompeii, Campania, Italy	RSSD	Black Hills, South Dakota, U.S.A.
PMK	Palmer, Alaska, U.S.A.	RTB	Rutbah, Iraq
PMS	Palmer South (Arctic Valley), Alaska, U.S.A.	RTCB	Cerro Blanco, San Juan, Argentina
PNL	Peninsula, Alaska, U.S.A.	RTLL	Cerro Villicun, San Juan, Argentina
PNT	Penticton, British Columbia, Canada	RVR	Riverside, California, U.S.A.
PNY	Plattsburgh, New York, U.S.A.	RXF	Rexford, Montana, U.S.A.
POI	Palino, Lazio, Italy	SAG	Saga, Kyushu, Japan
POO	Paano, Maharashtra, India	SAL	Salo, Lombardia, Italy
PPE	Popeni, Romania	SAM	Somorkond, Uzbek S.S.R., U.S.S.R.
PPI	Padangpanjang, Sumatera, Indonesia	SAN	Santiago, Santiago, Chile
PPL	Puu Pili, Hawaii, U.S.A.	SAO	San Andreas Geological Observatory California, U.S.A.
PPR	Puerto Princesa, Palawan, Philippines	SAP	Sapporo, Hokkaido, Japan
PPT	Papeete (Pamitai), Society Islands, French Polynesia	SAX	Soentis, Switzerland
PRCM	Ranch Canyon, California, U.S.A.	SBA	Scott Base, Greater Antarctica, Antarctica
PRE	Pretoria, Transvaal, South Africa	SBB	Saddle Back Butte, California, U.S.A.
PRI	Priest, California, U.S.A.	SCE	Schlegeis, Austria
PRK	Paroskevi (Lesbos), Greece	SCH	Schefferville, Quebec, Canada
PRM	Parsons Mountain, South Carolina, U.S.A.	SCM	Sheep Creek Mountain, Alaska, U.S.A.
PRNI	Paron, Israel	SCP	State College, Pennsylvania, U.S.A.
PRS	Paraiso, California, U.S.A.	SDN	Sond Point, Alaska, U.S.A.
PRU	Pruhonice, Czechoslovakia	SDV	Santo Domingo, Venezuela
PRY	Parys, Orange Free State, South Africa	SDW	Sidewinder Mine, California, U.S.A.
PSI	Propot, Sumatera, Indonesia	SEK	Senekol, Orange Free State, South Africa
PSN	Preselentsi, Bulgaria	SEM	Semipalatinsk, Kazakh S.S.R., U.S.S.R.
PSZ	Piszkesteto, Hungary	SEN	Sendai (Mukoiyomo), Honshu, Japan
PT02	Quillmo, Peru	SEO	Seoul (Keizyo), South Korea
PT03	Guadalupe, Peru	SES	Suffield, Alberta, Canada
PT06	Pisco, Peru	SEY	Seymchan, R.S.F.S.R., U.S.S.R.
PTCR	Patenciano, Costa Rica	SFS	San Fernando, Spain
PTD	Porto (Serro do Pilar), Portugal	SGH	Sud-Ghoubbet, Djibouti
PUH	Pauahi, Hawaii, U.S.A.	SGH	Sud-Ghoubbet, Djibouti
PUL	Pulkovo, R.S.F.S.R., U.S.S.R.	SGO	Sicignano, Campania, Italy
PV06	Paradox Valley (Coal Canyon), Colorado, U.S.A.	SHA	Spring Hill, Alabama, U.S.A.
PV07	Paradox Valley (Long Mesa), Colorado, U.S.A.	SHE	Shemakho, Azerbaijan S.S.R., U.S.S.R.
PV10	Paradox Valley (South La Sol), Colorado, U.S.A.	SHI	Shiraz, Iran
PVC	Port Vila, Vanuatu Islands	SHIO	Shillong, Meghalaya, India
PVL	Pavlikeni, Bulgaria	SHJ	Shionomisaki (Siomisaki), Honshu, Japan
PWA	Palmer West (Houston), Alaska, U.S.A.	SHK	Shiraki, Honshu, Japan
PWH	Paliikeowe Pali, Hawaii, U.S.A.	SHL	Shillong, Meghalaya, India
PWL	Port Wells, Alaska, U.S.A.	SHN	Shimonoseki 3 (Shimonoseki), Honshu, Japan
PWLA	Pickwick Lake, Alabama, U.S.A.	SHZ	Shizuoka, Honshu, Japan
PYA	Pyatigorsk, R.S.F.S.R., U.S.S.R.	SIO	Slick, Oklahoma, U.S.A.
PYM	Petit Puy de Manson, Auvergne, France	SIT	Sitka, Alaska, U.S.A.
QIZ	Qiongzong, Guangdong, China (Mainland)	SJG	San Juan, Puerto Rico
QPS	Quepos, Costa Rica	SJS	San Jose, Costa Rica
QUE	Quetto, Pakistan	SKLY	Ski Hill Lift, New York, U.S.A.
QUR	Rumipombo, Ecuador	SKO	Skopje, Yugoslavia
QZG	Quezaltepeque, Guatemala	SKR	Severo-Kurilsk, R.S.F.S.R., U.S.S.R.
QZH	Quanzhou, Fujian, China (Mainland)	SLA	San Lorenzo, Salta, Argentina
QZO	Quartz Mountain State Park, Oklahoma, U.S.A.	SLE	Schleitheim, Switzerland
RAB	Roboul, New Britain, Papua New Guinea	SLM	Saint Louis, Missouri, U.S.A.
RAR	Rorotonga, Cook Islands	SLR	Silverton, Transvaal, South Africa
RBA	Robot, Morocco	SMF	Signal de Mont, Bourbonnois, France
RBL	Raibl, Friuli-Venezia Giulia, Italy	SMY	Shemya, Alaska, U.S.A.
RCD	Rapid City, South Dakota, U.S.A.	SNA	Sonoe, Greater Antarctica, Antarctica
RDJ	Rio de Janeiro, Rio de Janeiro, Brazil	SNG	Songkhlo, Thailand
RDP	Rocco di Popo, Lazio, Italy	SNY	Shenyang, Liaoning, China (Mainland)
RES	Resolute, Northwest Territories, Canada	SNZO	South Korori, North Island, New Zealand
REY	Reykjavik, Iceland	SOB1	Sobradinho (Serro), Bahia, Brazil
RFA	San Rafael, Mendoza, Argentina	SOD	Sodonkyla, Finland
RHP	Rhoboro Hills, South Island, New Zealand	SOF	Sofia, Bulgaria
RIM	Rim, Hawaii, U.S.A.	SOH	Sokhos, Greece
RIV	Riverview, New South Wales, Australia	SOP	Sopron, Hungary
RJF	Les Rejoudeaux, Limousin, France	SOR	Soroo, Cuba
RKG	Rocky Gully, Western Australia, Australia	SPA	South Pole, Greater Antarctica, Antarctica
RKT	Rikitea, Tuamotu Archipelago, French Polynesia	SPC	Skalnate-Pleso, Czechoslovakia
RLO	Rose Lookout Tower, Oklahoma, U.S.A.	SRA	San Ramon, Costa Rica
RMJ	Rumoi, Hokkaido, Japan	SRO	Srobarova, Czechoslovakia
RMP	Rome (Monte Parzia Catone), Lazio, Italy	SRS	Serroi, Greece
RMQ	Rama, Queensland, Australia	SRY	Shiroyama, Honshu, Japan
RMT	Round Mountain, California, U.S.A.	SSB	Saint Sauveur en Rue, Languedoc, France
RMU	Rainbow Monument, Utah, U.S.A.	SSC	Saint Sauveur de Corouges, Normandie, France
ROCH	El Roble, Santiago, Chile	SSE	Sheshon, Shonghoi, China (Mainland)
ROF	Roppe, Alsace, France	SSF	Saint Soultge, Nivernois, France
ROG	Rognes, Provence, France		

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Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
SSR	Susora, Romania	TWF1	Yu-li, China (Taiwan)
SSS	Son Salvador, El Salvador	TWG	Pin-lang, China (Taiwan)
STB	Steinbach, Nordrhein-Westfalen, Fed. Rep. of Germany	TWK	Hsin-ying, China (Taiwan)
STE	Steponavon, Armenian S.S.R., U.S.S.R.	TWM1	Shou Shan, China (Taiwan)
STJ	Saint John's, Newfoundland, Canada	TWO	Mei-shan, China (Taiwan)
STK	Stephens Creek, New South Wales, Australia	TWO	Tung-shih, China (Taiwan)
STR	Strosbourg, Alsace, France	TWZ	Nei-hu (Neifu), China (Taiwan)
STS	Santiago de Compostela, Spain	TYS	Tyson Valley, Missouri, U.S.A.
STU	Stuttgart, Baden-Wurttemberg, Fed. Rep. of Germany	TZZ	Tabubil, New Guinea, Papua New Guinea
SUF	Sumainen, Finland	UAV	Universidad de los Andes (Merida), Venezuela
SUR	Sutherland, Cape Province, South Africa	UCC	Uccle, Belgium
SUT	Suttsu, Hokkaido, Japan	UDU	Undu Point, Fiji
SVA	Suva, Fiji	ULC	Ulcinj, Yugoslavia
SVO	Sovo, Solomon Islands	UPA	Universidad de Panama, Panama
SVW	Sparrevohn, Alaska, U.S.A.	UPP	Uppsala, Sweden
SWZ	Schweizer-Reneke, Transvaal, South Africa	UTO	University of Toledo, Ohio, U.S.A.
SXM	Sixmile, Montana, U.S.A.	UTS	Utsunomiya, Honshu, Japan
SYP	Santa Ynez Peak, California, U.S.A.	VAL	Varese, Lombardia, Italy
SZP	Santa, Luzon, Philippines	VAL	Valentia, Eire
TAB	Tabriz, Iran	VAO	Valinhos, Sao Paulo, Brazil
TACH	Talagante, Santiago, Chile	VAY	Valandovo, Yugoslavia
TAT	Tateyama, Honshu, Japan	VBA	Sierra de la Ventana, Buenos Aires, Argentina
TATO	Taipei, China (Taiwan)	VCA	Vinchino, La Pampa, Argentina
TAU	Tasmania University, Tasmania, Australia	VDL	Val di Lei, Switzerland
TBI	Tubuai, Tubuai Islands, French Polynesia	VDM	Villiers-Adam, Ile de France, France
TBL	Tabele, New Guinea, Papua New Guinea	VDW	Vunindawa, Fiji
TBY	Torsby, Sweden	VG1	Voghera, Lombardia, Italy
TCA	Tanti, Cordoba, Argentina	VHO	Visto Hermoso, Oaxaca, Mexico
TCF	Taulx Ste. Croix, Marche, France	VIE	Vienna-Hohe Warte (Wien-Hohe Warte), Austria
TCW	Tory Channel, South Island, New Zealand	VIR	Virginio, Orange Free State, South Africa
TCX	Tecpaton, Chiapas, Mexico	VIS	Vishakhapatnam (Andhra, Waltair) Andhra Pradesh, India
TDD	Tadjoura, Djibouti	VKA	Vienna-Kobenzl (Wien-Kobenzl), Austria
TEH	Tehran, Iran	VLR	Valeo Ierii, Romania
TEN	Tenerife, Canary Islands, Spain	VLS	Valsamata (Kephallenia), Greece
TEP	Tecpan, Guatemala	VLZ	Valdez, Alaska, U.S.A.
TER	Terranova, Guatemala	VOY	Vojsko, Yugoslavia
TET	Tete, Mozambique	VRI	Vrincioara, Romania
TGI	Taghi Ghambar, Iran	VTS	Vitoshka, Bulgaria
THE	Thessaloniki, Greece	VUN	Vunikawai, Fiji
TIA	Taian, Shandong, China (Mainland)	VVD	Vivian, Oklahoma, U.S.A.
TIK	Tiksi, R.S.F.S.R., U.S.S.R.	WAB	Wabag, New Guinea, Papua New Guinea
TIM	Timisoara, Romania	WAJ	Wajima (Wazima), Honshu, Japan
TIO	Tiouine, Morocco	WAM	Wambrook, New South Wales, Australia
TIY	Taiyuan, Shonxi, China (Mainland)	WAR	Warsaw (Warszawa), Poland
TKL	Tuckaleechee Caverns, Tennessee, U.S.A.	WB2	Warramunga Array, Northern Territory, Australia
TKS	Tokushima, Shikoku, Japan	WBN	Wurburton, Western Australia, Australia
TLB	Topalu, Romania	WDC	Whiskeytown Dam, California, U.S.A.
TLL	Talolo Astronomical Observatory, Coquimbo, Chile	WEL	Wellington, North Island, New Zealand
TLO	Toledo, Spain	WES	Weston, Massachusetts, U.S.A.
TLX	Tulancingo, Hidalgo, Mexico	WET	Wetzell, Bayern, Fed. Rep. of Germany
TMA	Tamaro, Switzerland	WHA	Wahoula, Hawaii, U.S.A.
TMU	Temuco, Coutin, Chile	WHN	Wuhon, Hubei, China (Mainland)
TNS	Taunus, Hessen, Fed. Rep. of Germany	WIN	Windhoek, Namibia
TOA	Tolsono, Alaska, U.S.A.	WIT	Witteveen, Netherlands
TOL	Toledo, Spain	WJY	Wakayama, Honshu, Japan
TOO	Toolangi, Victoria, Australia	WLF	Walferdange, Luxembourg
TOT	Tottori, Honshu, Japan	WLO	Wilson, Oklahoma, U.S.A.
TOV	El Tacuyo, Venezuela	WMO	Urumqi (Wulumuchi), Xinjiang, China (Mainland)
TP2	Tecpan 2, Guatemala	WMO	Urumqi (Wulumuchi), Xinjiang, China (Mainland)
TPM	Tepoztlan, Morelos, Mexico	WRA	Warramunga Array, Northern Territory, Australia
TPT	Tiputa, Tuamotu Archipelago, French Polynesia	WTS	Winterswijk, Netherlands
TPZ	Tupiza, Bolivia	WWW	Wewak, New Guinea, Papua New Guinea
TRI	Trieste (Gratta Gigante) Friuli-Venezia Giulia, Italy	XAN	Xian (Hsian), Shoonxi, China (Mainland)
TRN	Trinidad (Saint Augustine) Trinidad, Trinidad and Tobago	XDE	Dent Fell, England, United Kingdom
TRO	Tromso, Norway	YAK	Yakutsk, R.S.F.S.R., U.S.S.R.
TRT	Tretes, Jawa, Indonesia	YAM	Yamogoto, Honshu, Japan
TSI	Tuntungon, Sumatra, Indonesia	YBT	Youssef Ben Tachfine, Morocco
TSK	Tsukubo, Honshu, Japan	YER	Yerkesik, Turkey
YJA		YJA	Yavi, Jujuy, Argentina
TTA	Tatalina, Alaska, U.S.A.	YKA	Yellowknife Array, Northwest Territories, Canada
TTG	Titograd, Yugoslavia	YKC	Yellowknife, Northwest Territories, Canada
TTK	Takmak, Turkey	YKM	Yaak, Montana, U.S.A.
TUC	Tucson, Arizona, U.S.A.	YLV	Yalova, Turkey
TUH	Tulbagh, Cape Province, South Africa	YOK	Yokohama, Honshu, Japan
TUL	Tulsa (Oklahoma Geophysical Observatory) Oklahoma, U.S.A.	YOU	Young, New South Wales, Australia
TVI	Taveuni, Fiji	YSS	Yuzhno-Sakhalinsk, R.S.F.S.R., U.S.S.R.
TWC	Su-oo, China (Taiwan)	ZAG	Zagreb (Agram), Yugoslavia
TWD	Chia-wan, China (Taiwan)	ZAK	Zakomensk, R.S.F.S.R., U.S.S.R.
		ZIH	Zihuatonejo, Guerrero, Mexico

TABLE 146

Code	Station Name and Geographic Region	Code	Station Name and Geographic Region
ZOBO	Zongo (Lo Paz), Bolivia		
ZON	Zonda, San Juan, Argentine		
ZST	Bratislava--Zelezno Studnicka, Czechoslovakia		
ZUL	Zurich--Lagern, Switzerland		

Figure 56. Azimuthal equidistant map for geographic subdivision, Fiji - Tonga - Kermadec Islands.

FIRST MOTION FM LOCATIONS 1984-1985 FIJI-TONGA-KERMADEC ISLES.

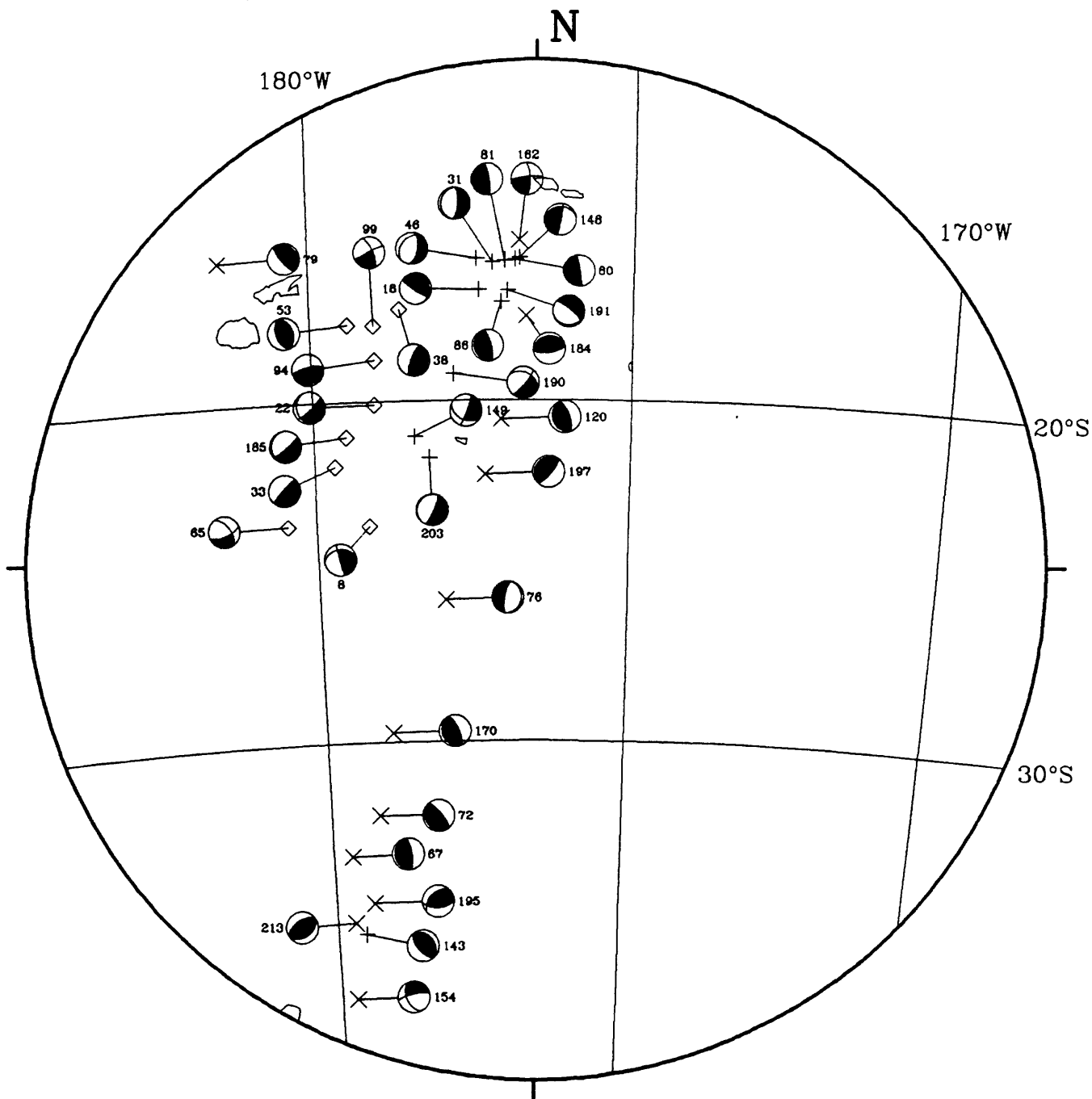


Table 147. Focal mechanism parameters for subdivision,
Fiji-Tonga-Kermadec Islands

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
8	165	85	125	262	35	9	40	107	31	227	35	342
18	124	79	80	347	15	132	55	22	33	222	10	126
22	45	80	-70	161	22	-153	32	118	51	338	20	221
31	4	73	-90	184	17	-90	28	94	62	274	0	4
33	220	80	85	67	11	116	55	124	35	314	5	221
38	200	75	90	20	15	90	60	110	30	290	0	20
46	10	60	-105	218	33	-66	14	111	71	246	13	18
53	160	50	90	340	40	90	85	70	5	250	0	160
65	322	58	-26	66	68	-145	6	192	40	288	50	95
67	350	72	90	170	18	90	63	260	27	80	0	170
72	320	75	90	140	15	90	60	230	30	50	0	140
76	190	75	-90	10	15	-90	30	280	60	100	0	10
79	140	75	90	320	15	90	60	50	30	230	0	140
80	350	85	90	170	5	90	50	260	40	80	0	170
81	350	80	90	170	10	90	55	260	35	80	0	170
86	345	73	90	165	17	90	62	255	28	75	0	165
92	280	85	90	100	5	90	50	190	40	10	0	100
94	255	75	90	75	15	90	60	165	30	345	0	75
99	244	85	160	36	70	5	18	198	10	292	69	51
120	340	65	90	160	25	90	70	250	20	70	0	160
143	140	60	90	320	30	90	75	50	15	230	0	140
148	10	85	70	267	21	166	46	259	37	118	20	12
149	20	85	-50	116	40	-172	29	79	37	325	40	196
154	257	75	-140	155	52	-19	15	21	38	123	48	274
162	265	79	163	358	73	11	20	221	4	312	70	53
170	336	70	90	156	20	90	65	246	25	66	0	156
184	82	68	90	262	22	90	67	352	23	172	0	82
185	48	83	-80	173	12	-145	37	129	51	329	10	227
190	40	80	-125	296	36	-17	27	157	44	276	34	47
191	310	80	-80	85	14	-135	34	31	54	232	10	128
195	225	42	57	86	56	116	67	50	7	158	21	251
197	40	75	90	220	15	90	60	310	30	130	0	40
203	23	83	-90	20	37	-90	38	113	52	293	0	23
213	235	50	90	55	40	90	85	145	5	325	0	55

Figure 57. Lower hemisphere focal sphere projection for events 8, 18, 22 and 31.

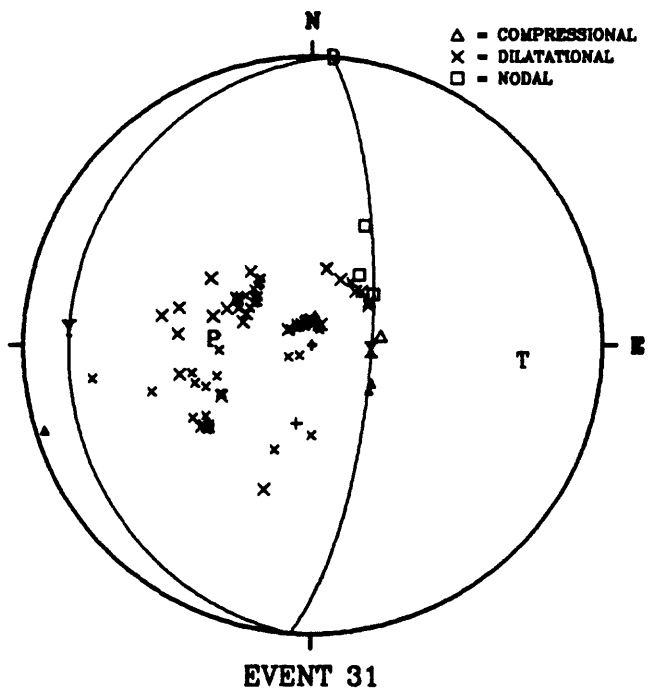
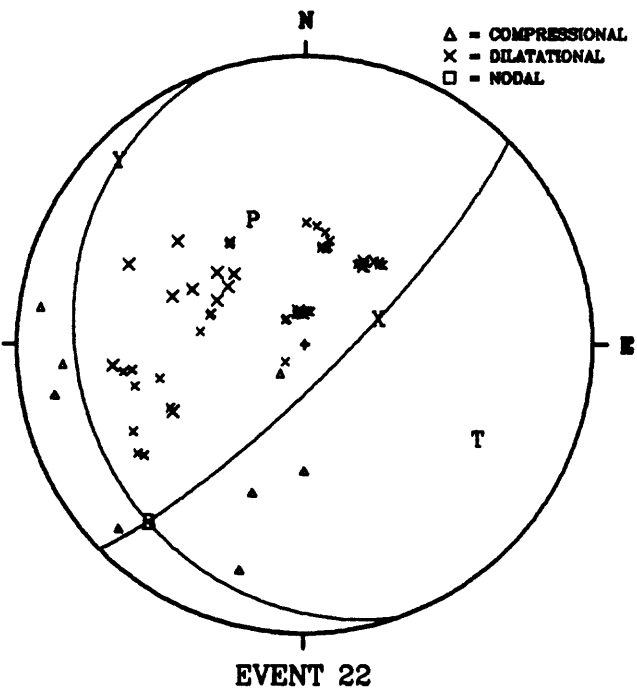
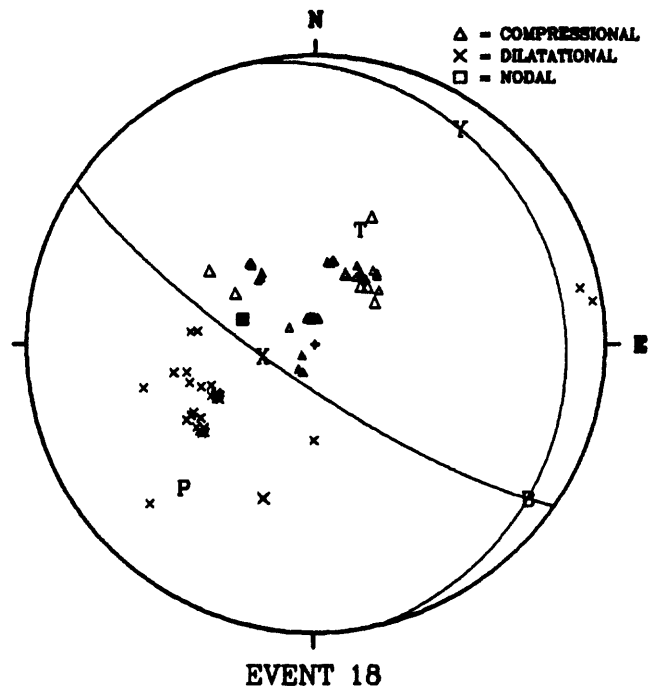
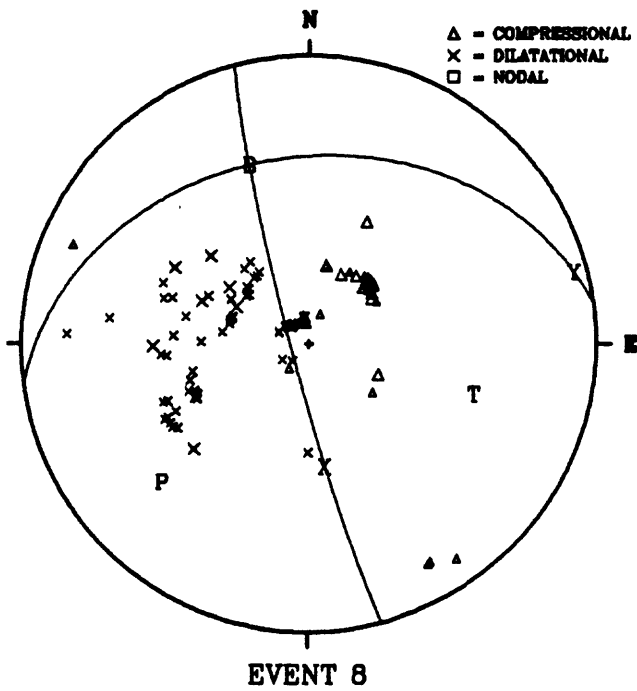


Figure 58. Lower hemisphere focal sphere projection for events 33, 38, 46 and 53.

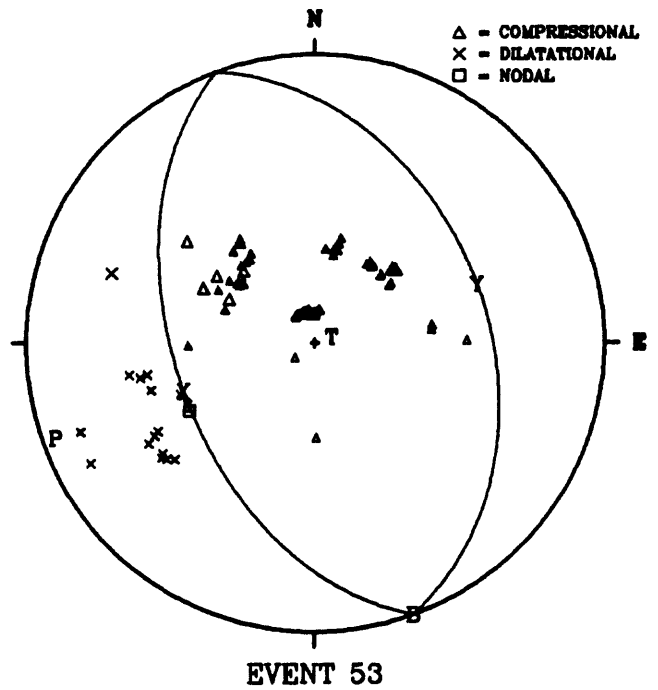
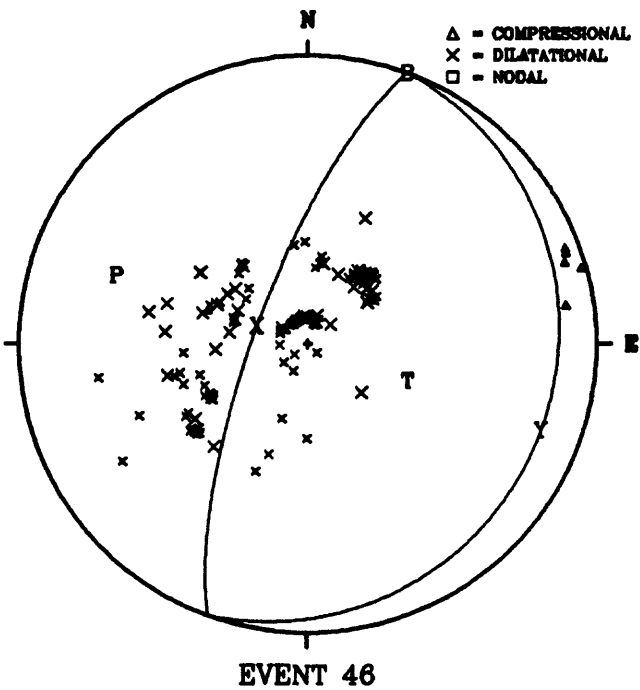
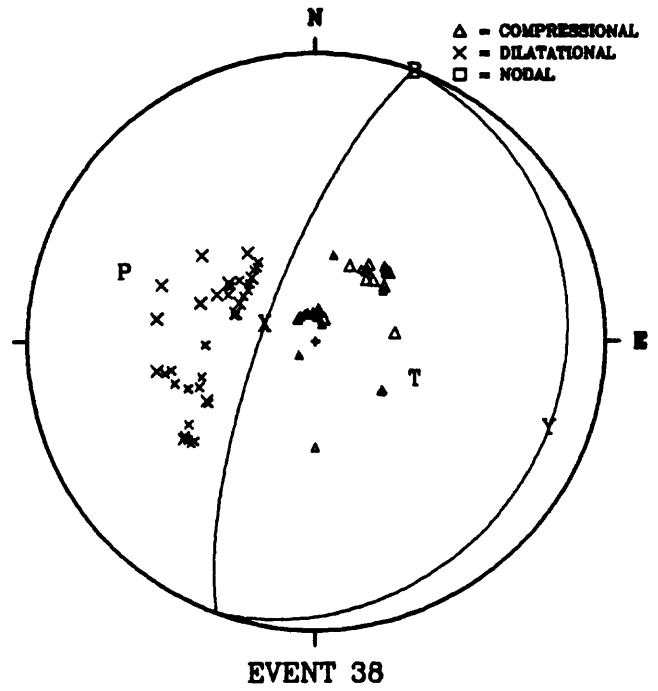
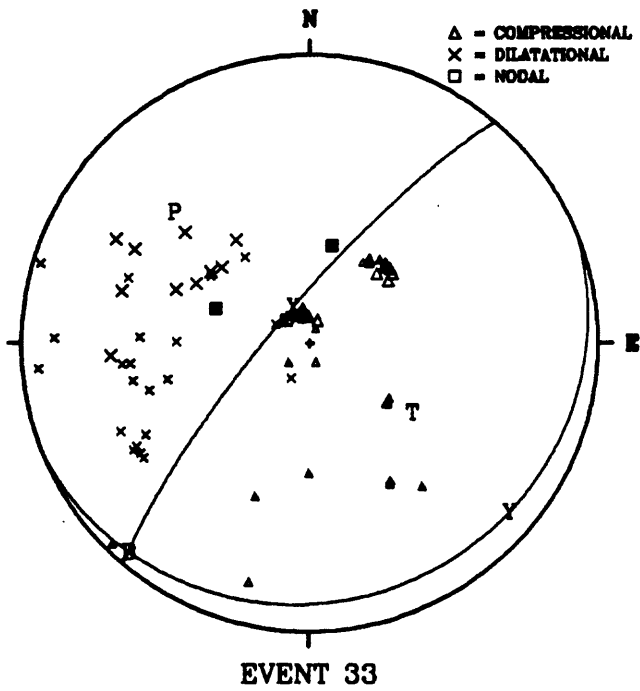


Figure 59. Lower hemisphere focal sphere projection for events 65, 67, 72 and 76.

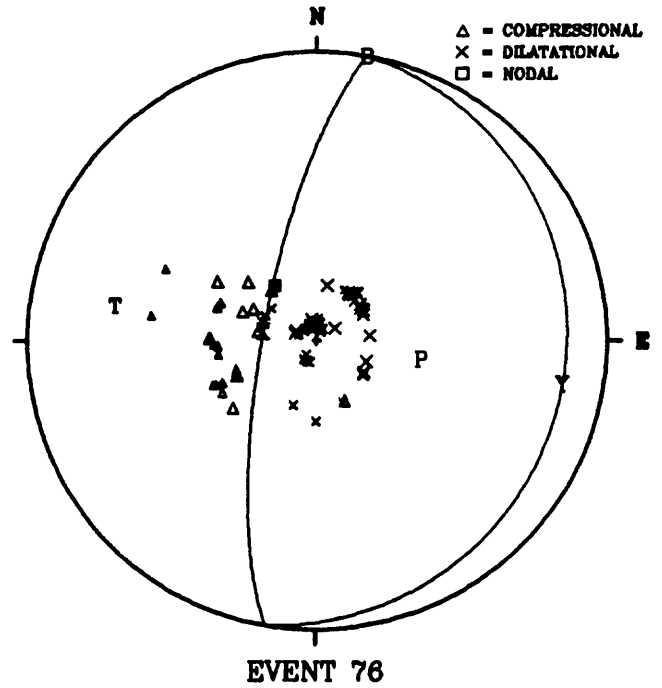
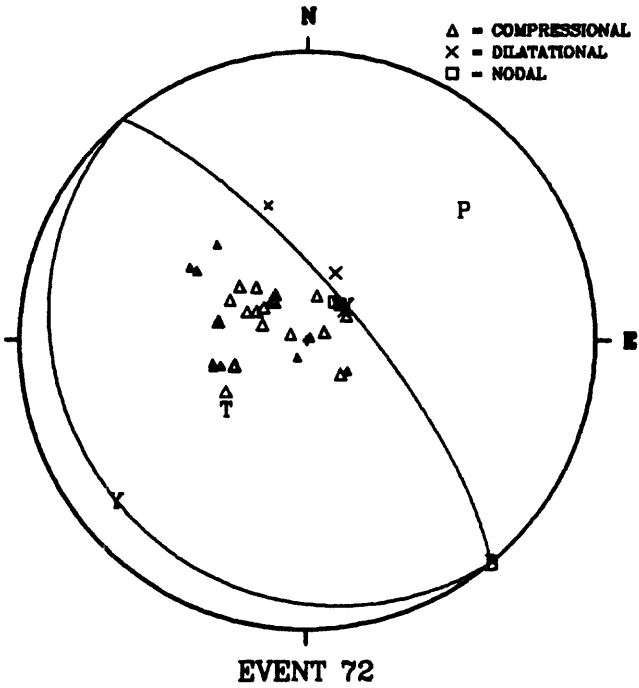
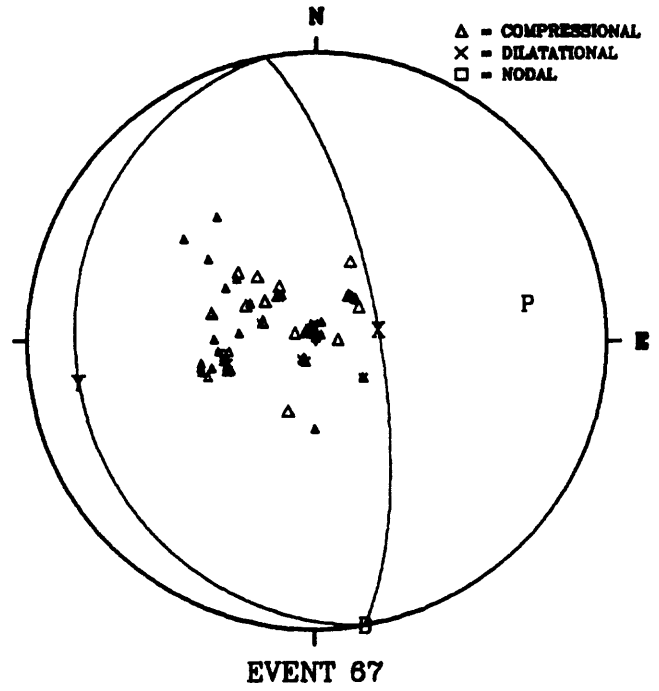
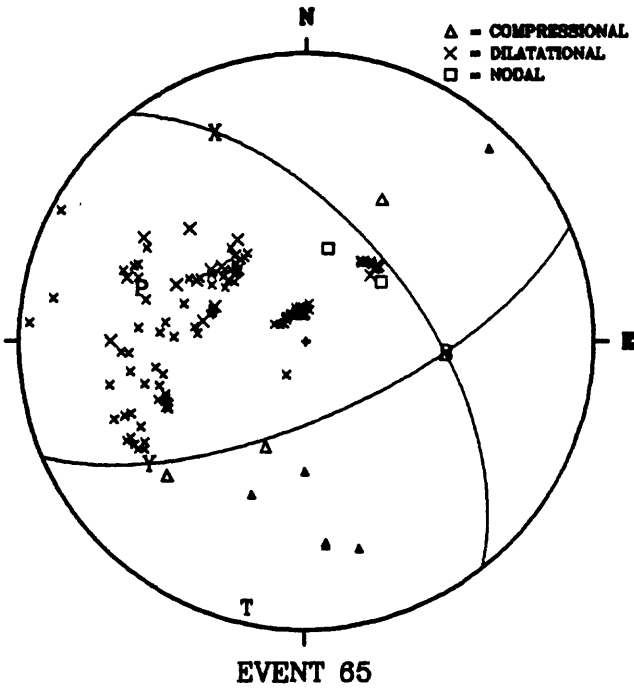


Figure 60. Lower hemisphere focal sphere projection for events 79, 80, 81 and 86.

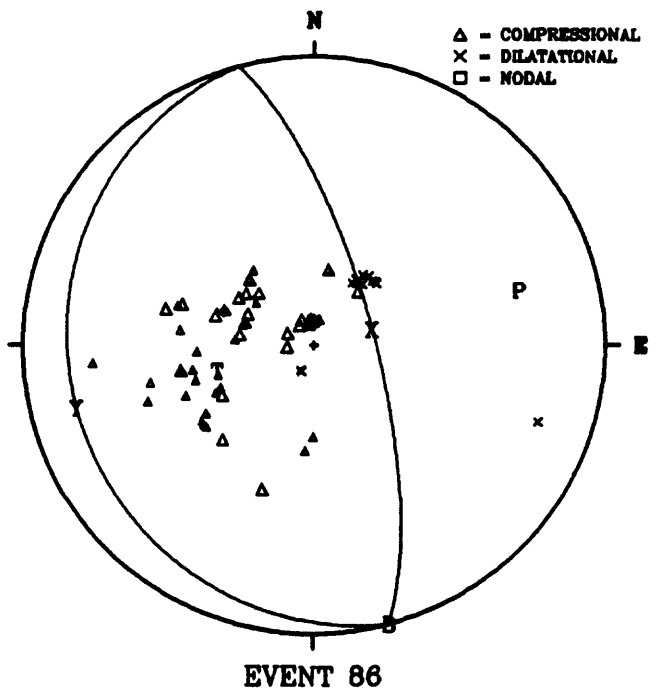
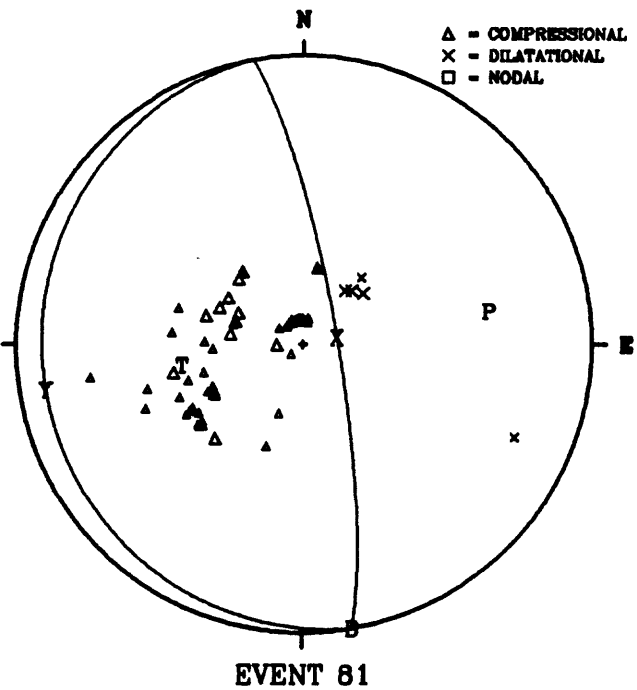
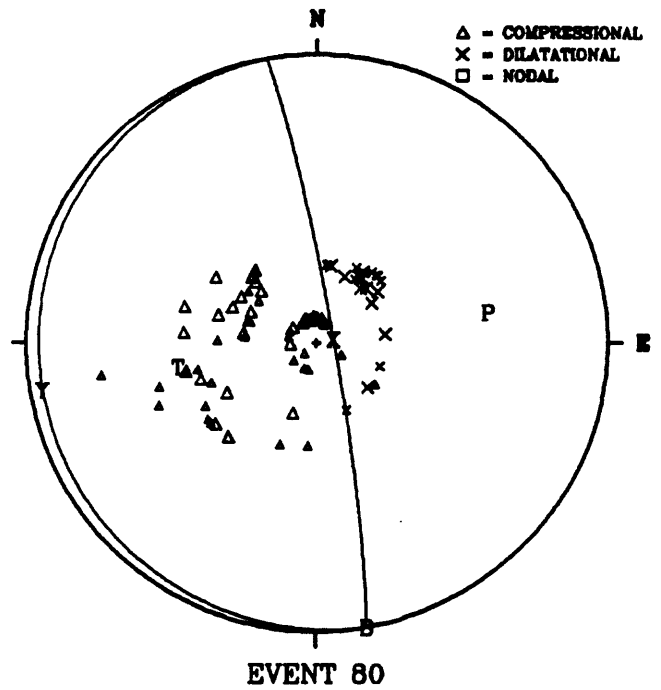
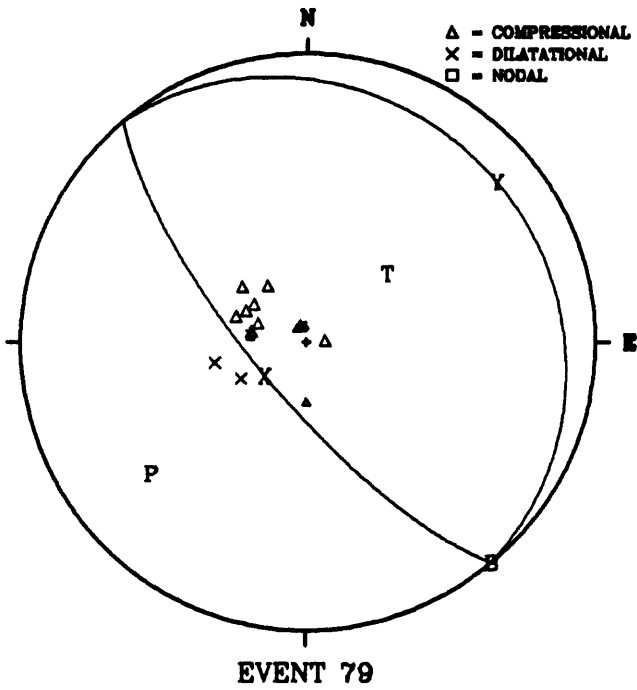


Figure 61. Lower hemisphere focal sphere projection for events 92, 94, 99 and 120.

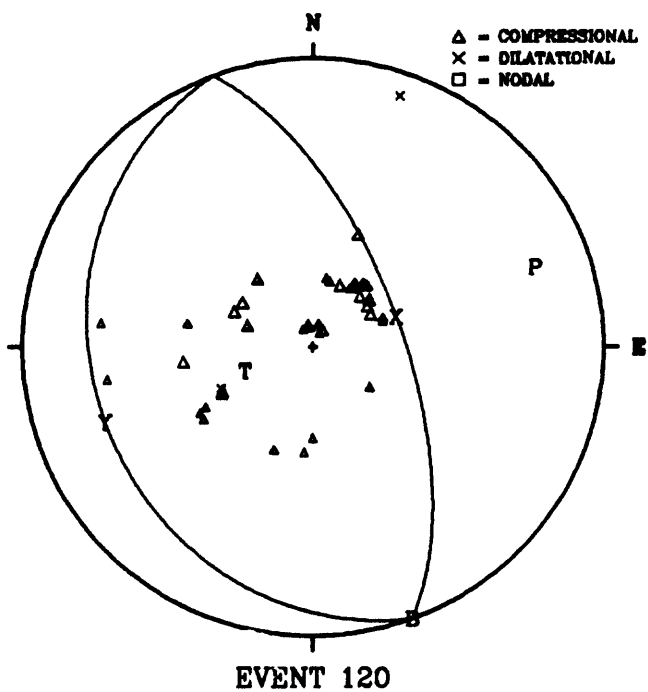
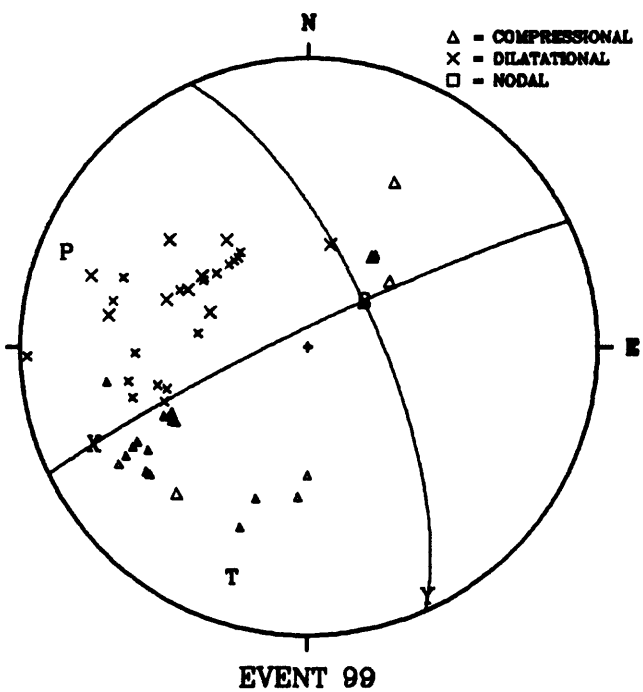
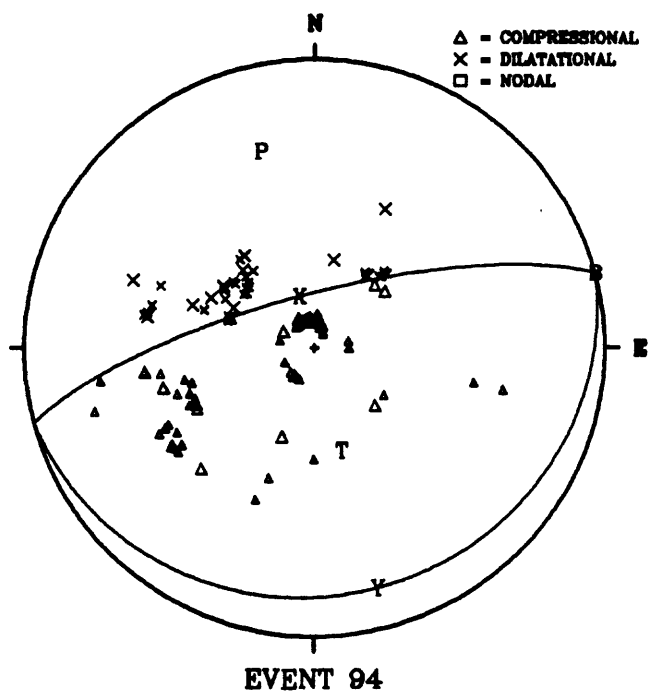
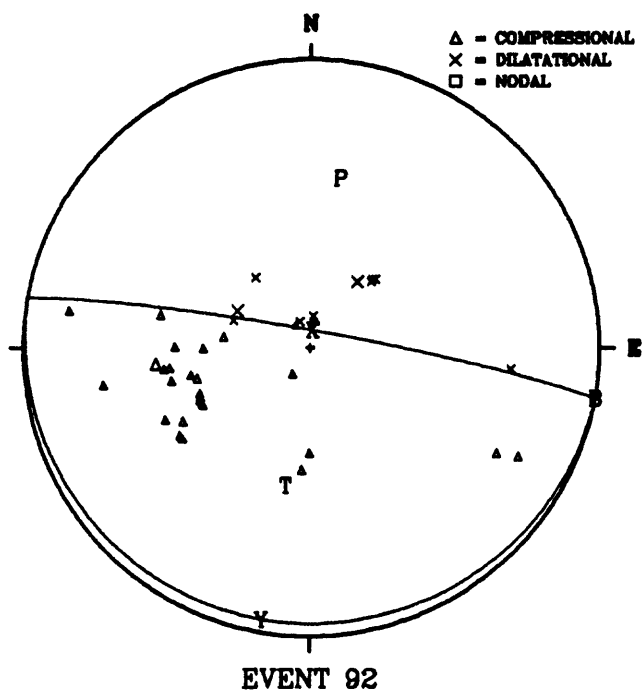


Figure 62. Lower hemisphere focal sphere projection for events 143, 148, 149 and 154.

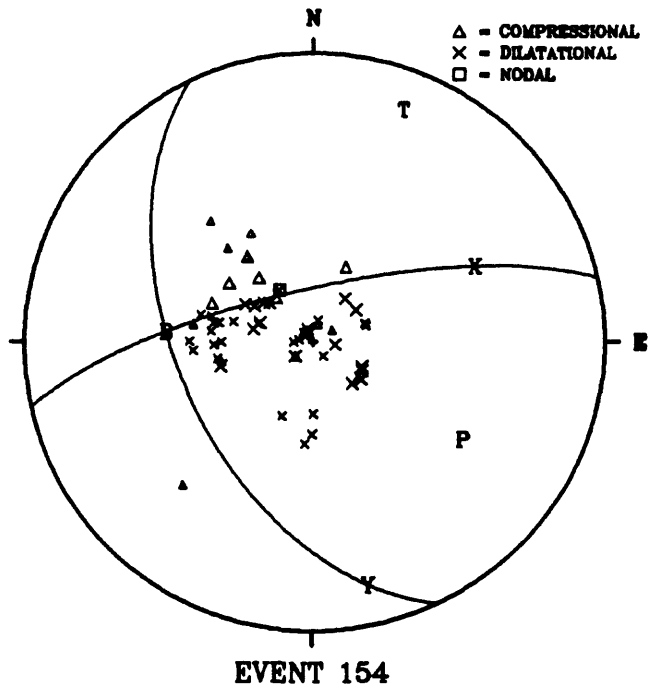
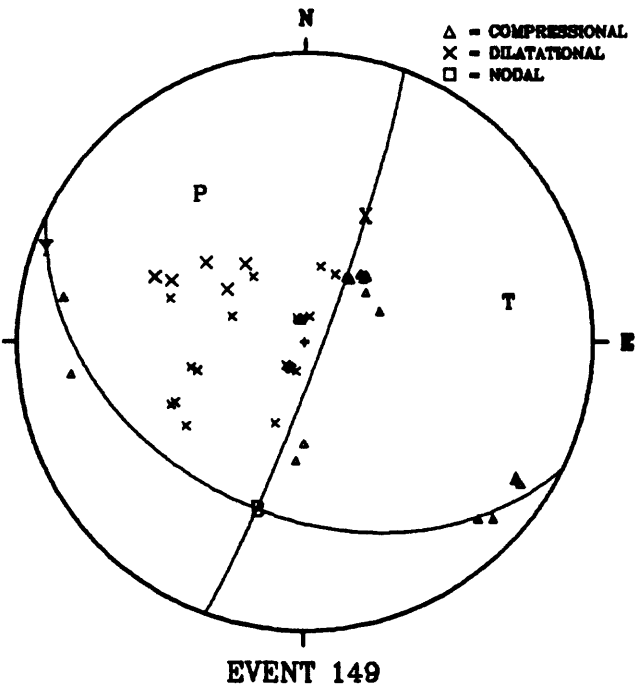
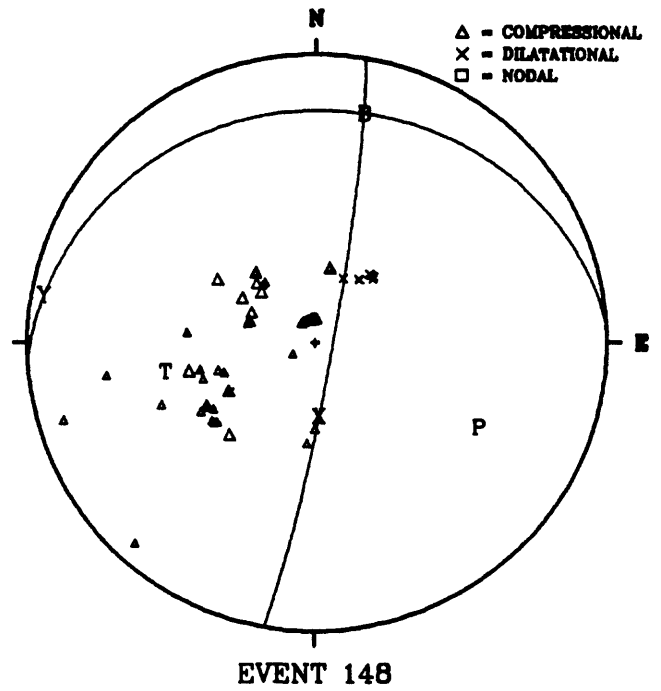
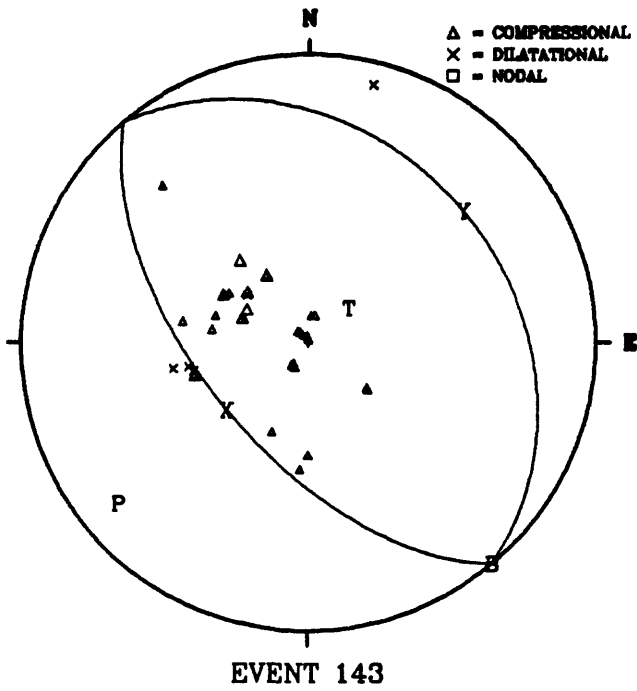


Figure 63. Lower hemisphere focal sphere projection for events 162, 170, 184 and 185.

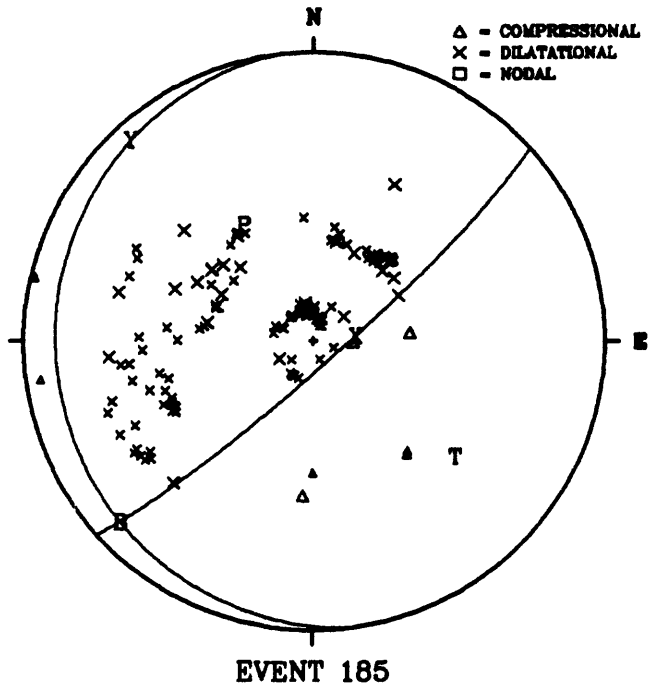
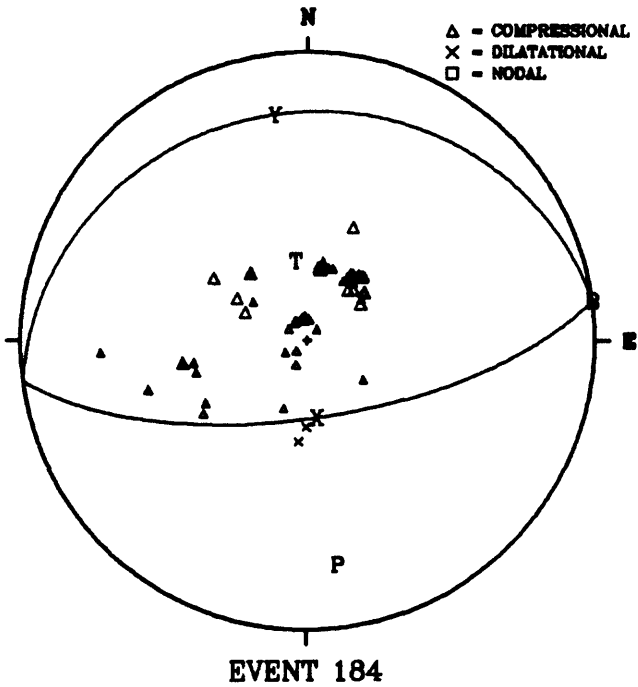
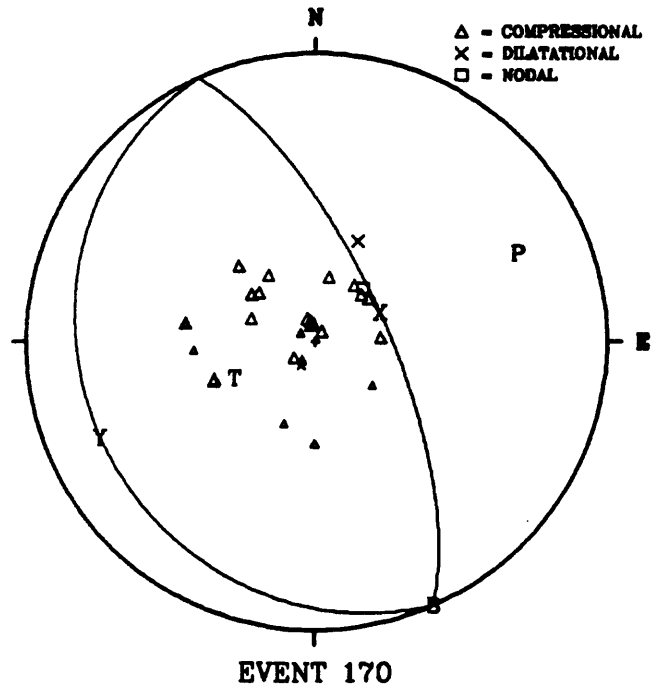
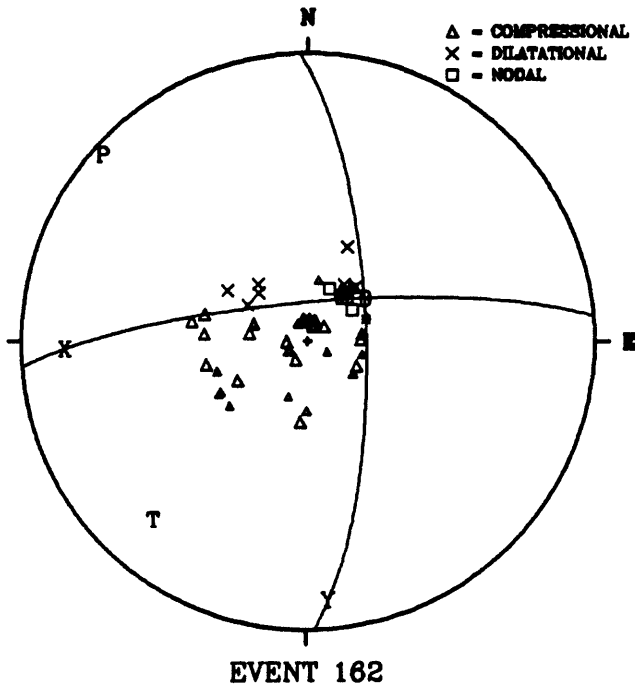


Figure 64. Lower hemisphere focal sphere projection for events 190, 191, 195, and 197.

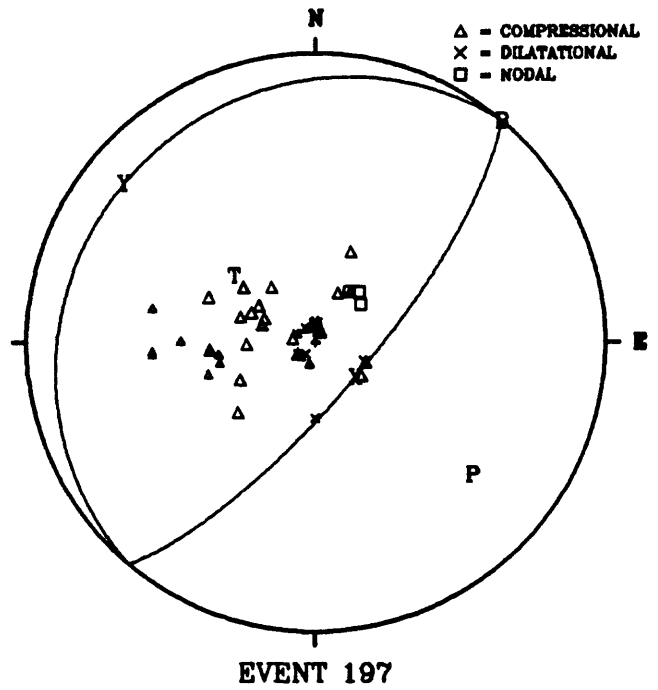
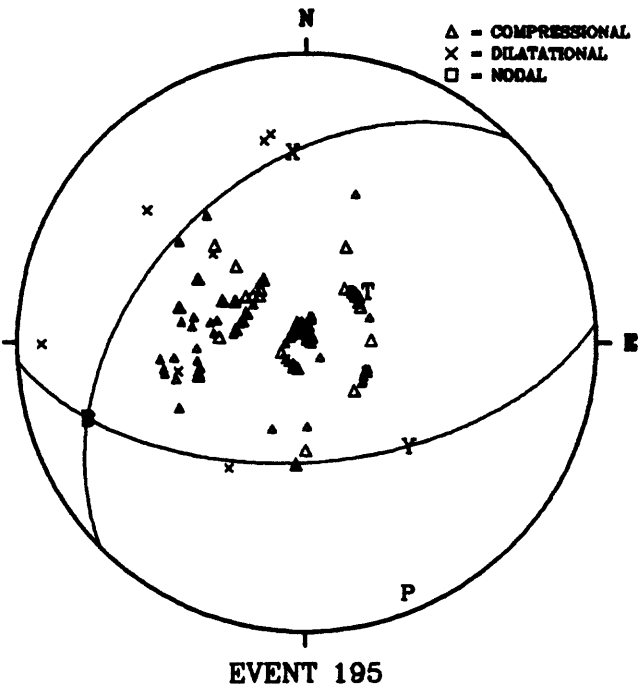
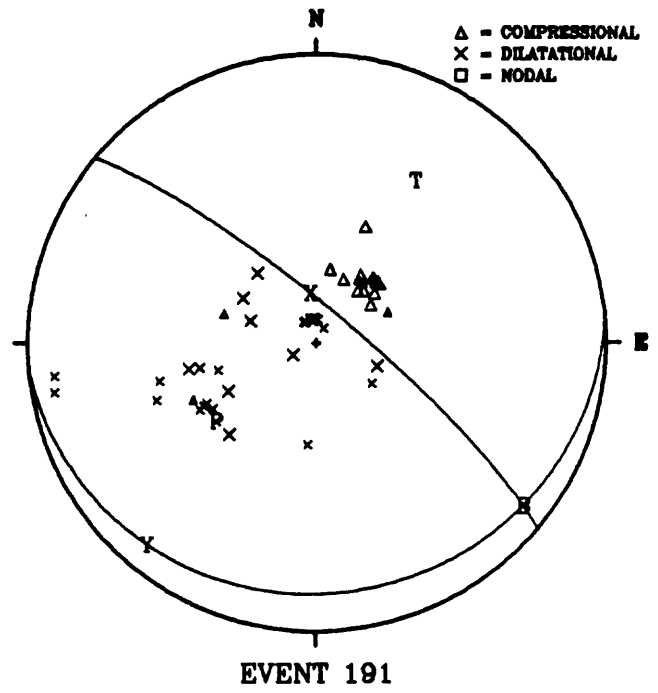
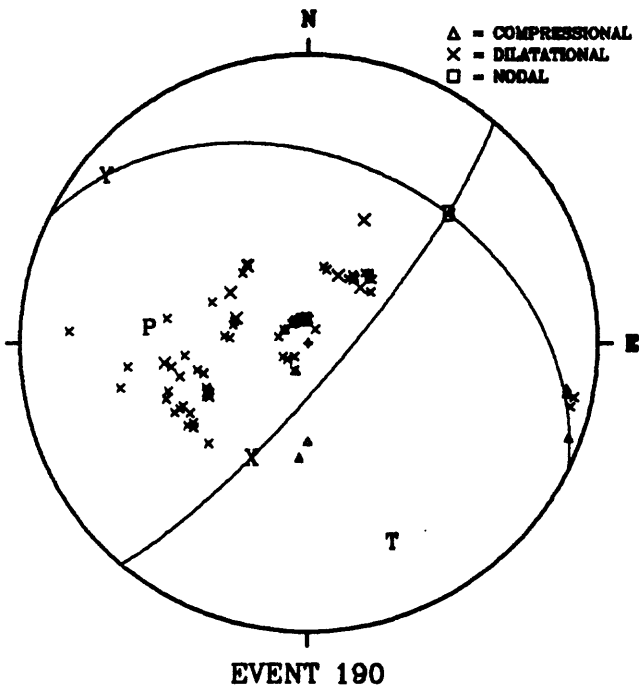


Figure 65. Lower hemisphere focal sphere projection for events 203, and 213.

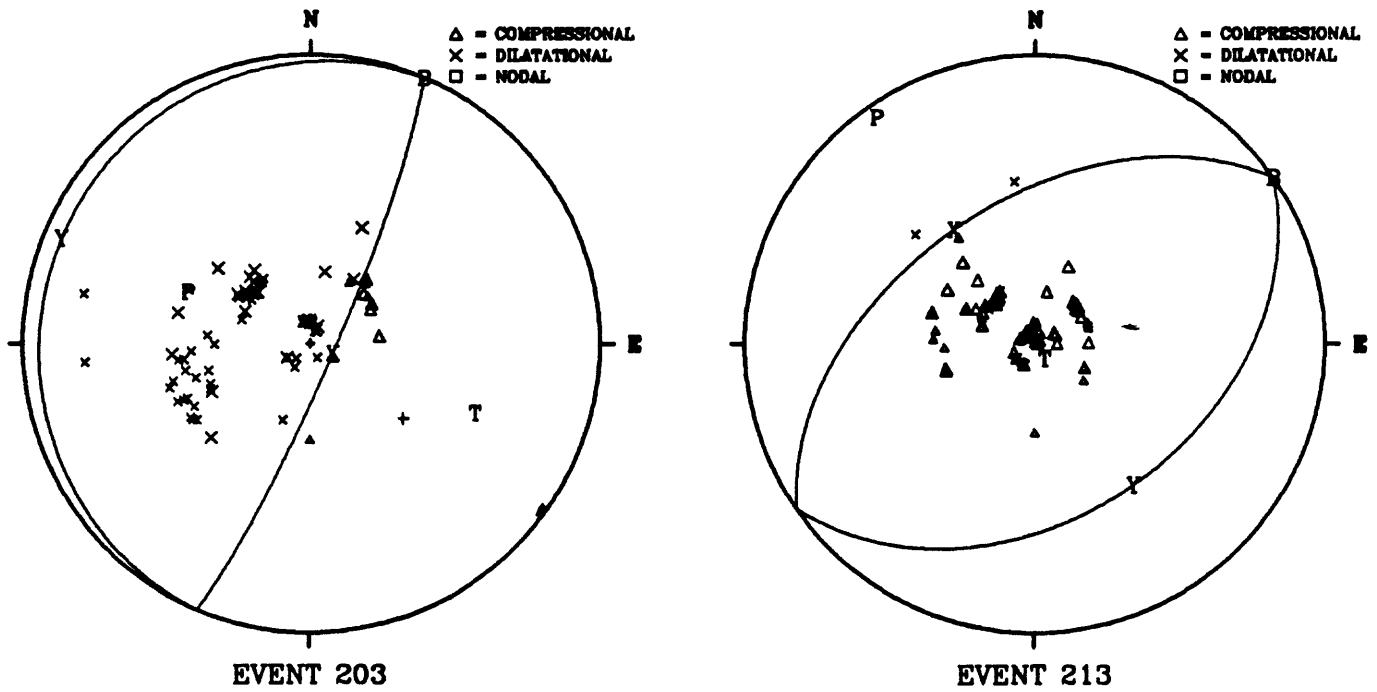


Table 148. Station data for event 8.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	6.268	330.69	11.75	104.28	I	C	SP	P
VUN	6.361	331.20	11.78	103.80	I	C	SP	P
NDF	7.066	325.16	11.93	100.38	I	C	SP	P
PVC	13.814	292.66	11.86	78.04	I	C	SP	P
NOU	14.091	272.39	11.61	73.15	I	D	SP	P
KOU	16.412	277.40	10.42	59.20	I	D	SP	P
RIV	28.529	242.27	8.82	46.69	I	D	SP	P
CAN	30.603	240.16	8.68	45.70	I	D	SP	P
YOU	30.877	242.36	8.66	45.59	I	D	SP	P
WAM	30.905	238.55	8.66	45.58	I	D	SP	P
WDIS	31.239	292.77	8.64	45.45	I	D	SP	P
CMS	32.619	248.17	8.56	44.89	I	D	SP	P
CTAO	33.015	269.19	8.54	44.74	I	D	LP	P
CTA	33.015	269.19	8.54	44.74	I	D	LP	P
CTAO	33.015	269.19	8.54	44.74	I	D	SP	P
TOO	33.881	237.31	8.48	44.39	I	D	SP	P
TAU	34.237	227.48	8.47	44.27	I	D	LP	P
RAB	34.417	299.64	8.46	44.24	I	D	LP	P
PMG	35.877	287.39	8.37	43.67	I	D	SP	P
STK	36.249	247.90	8.35	43.53	I	D	SP	P
ADE	38.869	243.14	8.21	42.58	I	D	SP	P
ISQ	39.020	265.85	8.20	42.52	I	D	SP	P
TZZ	43.009	288.68	7.99	41.19	I	D	SP	P
WB2	43.948	265.32	7.93	40.84	I	D	SP	P
HON	48.867	25.45	7.59	38.72	I	C	LP	P
MTN	48.974	273.38	7.58	38.68	I	D	SP	P
GUA	51.554	311.99	7.38	37.50	E	D	LP	P
GUMO	51.620	311.99	7.38	37.46	E	D	LP	P
KLG	53.486	248.35	7.23	36.58	I	D	SP	P
AAI	55.246	282.53	7.11	35.88	I	D	SP	P
MEK	56.725	252.80	7.00	35.26	I	D	SP	P
NWAO	56.743	245.15	7.00	35.25	I	D	LP	P
NWAO	56.743	245.15	7.00	35.25	I	D	SP	P
RKG	56.768	243.77	7.00	35.23	I	D	SP	P
BAL	57.555	247.78	6.93	34.87	I	D	SP	P
MUN	57.745	246.10	6.92	34.80	I	D	SP	P
NAU	60.370	256.65	6.72	33.64	I	D	SP	P
DAV	62.695	292.01	6.53	32.59	I	D	LP	P
PLP	65.329	295.50	6.32	31.42	I	D	SP	P
SPA	66.503	180.00	6.23	30.90	I	D	SP	P
TRT	67.780	271.19	6.12	30.34	I	D	SP	P
MAT	72.561	324.49	5.78	28.48	I	D	SP	P
SHK	74.230	319.65	5.67	27.89	I	D	SP	P
TATO	75.737	305.65	5.58	27.42	I	D	LP	P
PRI	80.614	43.88	5.19	25.33	I	C	SP	P
BKS	80.723	41.72	5.18	25.29	I	C	SP	P
MHC	80.750	42.44	5.18	25.28	I	C	SP	P
GZH	81.005	299.95	5.16	25.18	I	D	SP	P
MWC	81.155	46.73	5.15	25.13	I	C	SP	P
PLM	81.454	48.04	5.13	25.03	I	C	SP	P

Table 148. Station data for event 8 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RVR	81.478	47.26	5.13	25.03	I	C	SP	P
SBB	81.584	46.47	5.12	25.00	I	C	SP	P
ISA	81.735	45.36	5.12	24.96	I	C	SP	P
FRI	81.743	43.69	5.12	24.96	I	C	SP	P
JAS	81.873	42.57	5.11	24.95	I	C	SP	P
WDC	82.270	39.47	5.09	24.83	I	C	SP	P
CWC	82.454	44.93	5.08	24.77	I	C	SP	P
GLA	82.684	49.27	5.07	24.70	I	C	SP	P
MDJ	82.909	325.40	5.05	24.63	I	D	SP	P
IPM	83.289	277.94	5.02	24.48	I	D	SP	P
SNY	84.414	320.39	4.96	24.12	I	D	SP	P
CN2	84.597	322.80	4.94	24.04	I	D	SP	P
TIA	85.170	312.87	4.88	23.74	I	D	SP	P
BMN	85.365	42.11	4.87	23.67	I	C	SP	P
PHC	86.550	29.62	4.80	23.30	I	C	SP	P
LON	86.645	35.07	4.79	23.27	E	C	LP	P
PCT	87.155	287.25	4.76	23.12	I	D	SP	P
NNT	87.758	284.67	4.74	23.00	I	D	SP	P
TIY	89.145	312.12	4.71	22.85	I	D	SP	P
ANMO	89.588	51.33	4.70	22.79	I	C	LP	P
BDT	90.328	288.59	4.68	22.71	I	D	SP	P
KMI	90.505	297.16	4.68	22.70	I	D	LP	P
PEL	90.927	126.90	4.67	22.66	I	C	SP	P
CHG	91.028	289.98	4.67	22.65	I	D	SP	P
COL	91.352	12.52	4.66	22.62	I	C	LP	P
COL	91.352	12.52	4.66	22.62	I	C	SP	P
BDW	91.435	43.35	4.66	22.61	I	C	SP	P
JCT	92.499	57.87	4.63	22.45	I	C	SP	P
GOL	92.646	47.60	4.63	22.42	I	C	SP	P
LZH	94.429	307.42	4.56	22.10	I	D	SP	P
RSSD	95.604	44.16	4.54	21.97	E	C	LP	P
TUL	97.815	54.34	4.48	21.70	E	C	LP	P
GTA	98.716	309.11	4.46	21.58	I	D	SP	P
RSNT	99.467	24.98	4.44	21.48	E	C	LP	P
LPB	101.031	113.51	4.44	21.48	E	C	LP	Pdf
NDI	113.054	292.38	1.89	8.95	I	D	SP	PKP
QUE	122.116	291.79	1.87	8.87	I	D	SP	PKP
GDH	123.987	20.67	1.87	8.86	I	C	SP	PKP
MTD	130.330	218.79	1.85	8.77	I	C	SP	PKP
NAI	137.825	238.95	1.79	8.49	I	D	SP	PKP
BGD	140.930	306.95	1.75	8.30	I	D	SP	PKP
MUD	146.762	352.41	1.64	7.76	I	D	SP	PKP
COP	147.025	348.80	1.63	7.73	E	C	LP	PKP
COP	147.025	348.80	1.63	7.73	I	D	SP	PKP
HAM	149.574	350.25	1.56	7.40	I	C	SP	PKP
PSN	150.439	318.98	1.54	7.28	I	D	SP	PKP
BRG	151.197	343.77	1.51	7.16	I	C	SP	PKP
IST	151.298	313.71	1.51	7.15	E	D	LP	PKP
WTS	151.420	353.36	1.51	7.13	I	C	SP	PKP
COZ	151.600	325.14	1.50	7.10	I	D	SP	PKP

Table 148. Station data for event 8 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MOX	151.958	346.48	1.49	7.04	I	C	SP	PKP
HOF	152.214	345.90	1.48	7.00	I	C	SP	PKP
GZR	152.353	326.86	1.47	6.98	I	C	SP	PKP
EDC	152.389	313.30	1.47	6.98	I	C	SP	PKP
BNS	152.395	352.49	1.47	6.97	I	C	SP	PKP
PVL	152.533	320.76	1.47	6.95	I	D	SP	PKP
KHC	152.886	342.71	1.46	6.89	I	C	SP	PKP
GRF	152.943	346.31	1.45	6.89	I	C	SP	PKP
WET	153.059	343.65	1.45	6.87	I	C	SP	PKP
VTG	154.006	321.82	1.41	6.70	I	C	SP	PKP
GWF	154.283	350.95	1.40	6.65	I	C	SP	PKP
MMB	154.330	319.45	1.40	6.64	I	C	SP	PKP
BHG	154.363	342.35	1.40	6.63	I	C	SP	PKP
FUR	154.365	345.05	1.40	6.63	I	C	SP	PKP
KBA	154.812	341.05	1.38	6.55	I	C	SP	PKP
BNG	154.911	223.02	1.38	6.53	I	D	SP	PKP
SLE	155.321	348.95	1.36	6.45	E	C	LP	PKP
TRI	155.902	338.94	1.34	6.34	I	C	SP	PKP
OSS	156.019	345.56	1.33	6.32	E	C	LP	PKP
LLS	156.090	347.55	1.33	6.31	E	C	LP	PKP
TMA	156.845	347.20	1.30	6.16	E	C	LP	PKP
MMK	157.072	348.71	1.29	6.11	E	C	LP	PKP
DIX	157.139	349.69	1.29	6.10	E	C	LP	PKP

Table 149. Station data for event 18.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	4.038	46.09	11.72	112.01	I	D	SP	P
VUN	6.580	258.03	12.54	97.34	I	D	SP	P
NDF	7.499	261.17	12.61	93.64	J	D	SP	P
KOU	20.203	255.94	9.86	51.27	I	D	SP	P
SNZO	26.104	198.22	9.18	46.58	E	D	LP	P
COO	33.353	239.55	8.56	42.60	I	D	SP	P
CTA	37.071	258.73	8.34	41.29	I	D	SP	P
CAN	37.170	233.13	8.34	41.26	J	D	SP	P
YOU	37.302	235.03	8.33	41.21	I	D	SP	P
WAM	37.568	231.84	8.31	41.12	I	D	SP	P
CMS	38.615	240.33	8.25	40.74	I	D	SP	P
TOO	40.598	231.32	8.14	40.10	I	D	SP	P
HON	41.244	24.07	8.11	39.93	E	C	LP	P
STK	42.232	240.87	8.06	39.60	I	D	SP	P
BFD	42.704	232.98	8.04	39.48	I	D	SP	P
ADE	45.183	237.15	7.90	38.66	I	D	SP	P
WB2	48.252	258.02	7.69	37.44	I	D	SP	P
ASPA	48.452	253.04	7.67	37.35	I	D	SP	P
GUMO	49.979	304.68	7.55	36.66	I	C	LP	P
TLE	52.503	275.79	7.35	35.54	I	D	SP	P
WBN	55.003	249.58	7.16	34.49	I	D	SP	P
AAI	57.412	276.43	6.98	33.54	I	D	SP	P
KLK	59.319	243.86	6.84	32.76	I	D	SP	P
MEK	62.154	248.41	6.61	31.55	I	D	SP	P
KLB	62.446	242.76	6.59	31.43	I	D	SP	P
NWAO	62.817	241.24	6.56	31.27	I	D	LP	P
NWAO	62.817	241.24	6.56	31.27	I	D	SP	P
RKG	62.948	239.95	6.55	31.21	J	D	SP	P
BAL	63.415	243.79	6.51	31.01	I	D	SP	P
MUN	63.740	242.23	6.49	30.87	I	D	SP	P
KYS	67.055	320.97	6.21	29.44	I	C	SP	P
OYM	67.752	320.61	6.16	29.15	I	C	SP	P
TSK	67.763	321.75	6.16	29.14	I	C	SP	P
SRY	67.859	320.77	6.15	29.11	J	C	SP	P
DDR	68.168	321.04	6.12	28.98	I	C	SP	P
MAT	69.123	320.91	6.06	28.64	I	C	SP	P
SPA	73.362	180.00	5.76	27.09	I	D	SP	P
JAS	74.551	41.79	5.67	26.67	I	C	SP	P
TATO	74.660	302.44	5.67	26.63	I	C	LP	P
WDC	74.843	38.60	5.66	26.58	I	C	SP	P
MNA	76.298	42.46	5.57	26.15	I	C	SP	P
PHC	78.936	28.46	5.38	25.20	I	C	SP	P
MDJ	79.288	323.13	5.34	24.99	I	C	SP	P
PMR	80.695	12.11	5.21	24.35	I	C	SP	P
CN2	81.272	320.72	5.17	24.12	I	C	SP	P
SNY	81.382	318.29	5.16	24.08	I	C	SP	P
TOA	81.777	13.15	5.13	23.96	I	C	SP	P
PNT	81.849	32.86	5.13	23.93	I	C	SP	P
ALQ	82.667	50.33	5.08	23.69	I	C	SP	P
LHD	83.409	35.31	5.03	23.47	I	C	SP	P

Table 149. Station data for event 18 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CLX	83.618	35.51	5.02	23.41	I	C	SP	P
LDM	83.653	35.23	5.02	23.40	I	C	SP	P
LRM	83.880	38.53	5.01	23.33	I	C	SP	P
FBA	83.956	11.22	5.00	23.31	I	C	SP	P
IMA	84.071	8.49	4.99	23.27	I	C	SP	P
EDM	87.314	31.92	4.77	22.15	I	C	SP	P
RSSD	88.334	42.86	4.73	21.95	E	C	LP	P
RSNT	91.845	23.78	4.65	21.61	E	C	LP	P
CHTO	91.888	288.96	4.65	21.60	E	N	LP	P
CHTO	91.888	288.96	4.65	21.60	I	D	SP	P
CHG	91.888	288.96	4.65	21.60	I	D	SP	P
YKC	91.890	23.81	4.65	21.60	I	C	SP	P
RSON	97.307	39.15	4.50	20.87	E	C	LP	P
RSCP	98.907	55.57	4.46	20.67	E	C	LP	P
GRM	126.215	202.20	1.86	8.47	I	C	SP	PKP
MHI	128.375	303.23	1.86	8.45	I	C	SP	PKP
BUL	136.745	212.97	1.80	8.20	I	C	SP	PKP
KRA	144.716	343.54	1.68	7.66	I	C	SP	PKP
KSP	144.849	347.80	1.68	7.65	I	C	SP	PKP
CLL	144.966	351.49	1.68	7.64	I	C	SP	PKP
BRG	145.247	350.30	1.67	7.61	I	C	SP	PKP
SPC	145.414	342.57	1.67	7.59	I	C	SP	PKP
MOX	145.798	352.76	1.66	7.55	I	C	SP	PKP
BNS	145.832	357.81	1.66	7.55	I	C	SP	PKP
JOS	145.949	341.72	1.66	7.54	I	C	SP	PKP
PRU	146.000	349.23	1.66	7.53	I	C	SP	PKP
ENN	146.060	359.21	1.66	7.53	I	C	SP	PKP
HOF	146.092	352.35	1.65	7.52	I	C	SP	PKP
WET	147.093	350.74	1.63	7.42	I	C	SP	PKP
VKA	147.280	346.24	1.63	7.39	I	C	SP	PKP
FLN	147.733	7.08	1.62	7.34	I	C	SP	PKP
GWF	147.797	357.04	1.61	7.34	I	C	SP	PKP
LDF	147.940	6.70	1.61	7.32	I	C	SP	PKP
GRR	148.054	7.68	1.61	7.31	I	C	SP	PKP
FUR	148.278	352.29	1.60	7.28	I	C	SP	PKP
CDF	148.378	357.40	1.60	7.27	I	C	SP	PKP
LPF	148.380	8.04	1.60	7.27	I	C	SP	PKP
BHG	148.477	350.10	1.60	7.25	I	C	SP	PKP
HAU	148.816	358.55	1.59	7.21	I	C	SP	PKP
BSF	148.976	357.95	1.58	7.19	J	C	SP	PKP
KBA	149.019	349.19	1.58	7.19	I	C	SP	PKP
LOR	149.546	1.84	1.57	7.12	I	C	SP	PKP
OGA	149.585	352.13	1.56	7.11	I	C	SP	PKP
SSF	149.740	2.34	1.56	7.09	I	C	SP	PKP
LBF	149.833	1.70	1.56	7.08	I	C	SP	PKP
MFF	149.900	7.40	1.56	7.07	I	C	SP	PKP
AVF	150.005	2.58	1.55	7.06	I	C	SP	PKP
SMF	150.168	1.92	1.55	7.03	I	C	SP	PKP
CTI	150.300	350.95	1.54	7.01	I	C	SP	PKP
LSF	150.425	5.20	1.54	7.00	I	C	SP	PKP

Table 149. Station data for event 18 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TCF	150.441	4.24	1.54	6.99	I	C	SP	PKP
BNG	162.101	228.36	1.06	4.79	I	C	SP	PKP

Table 150. Station data for event 22.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	8.602	45.39	9.87	100.72	I	C	SP	P
PVC	13.095	278.02	9.94	81.89	I	C	SP	P
NOU	14.603	258.56	9.80	77.50	I	C	SP	P
KOU	16.559	265.32	9.61	73.16	I	C	SP	P
KRP	18.619	196.00	9.42	69.80	I	C	SP	P
RIV	30.518	237.00	8.51	57.98	I	D	SP	P
CAN	32.685	235.41	8.39	56.72	I	D	SP	P
RAB	33.007	294.67	8.37	56.52	I	D	LP	P
CTA	33.464	263.73	8.36	56.33	I	D	LP	P
CMS	34.283	243.33	8.31	55.81	I	D	SP	P
ISQ	39.639	261.49	8.04	53.16	I	D	SP	P
ASPA	44.550	256.33	7.75	50.52	I	D	SP	P
WB2	44.579	261.64	7.75	50.50	I	D	SP	P
GUMO	49.484	309.57	7.38	47.27	E	D	LP	P
DRV	53.717	199.28	7.08	44.82	I	C	SP	P
MBL	57.784	257.15	6.78	42.48	I	D	SP	P
KLB	58.165	244.71	6.75	42.25	I	D	SP	P
NWAO	58.493	243.10	6.72	42.05	E	D	LP	P
NWAO	58.493	243.10	6.72	42.05	I	D	SP	P
DAV	61.639	290.14	6.48	40.22	E	D	LP	P
TSK	68.544	324.59	5.96	36.41	I	D	SP	P
SRY	68.563	323.62	5.96	36.40	I	D	SP	P
DDR	68.892	323.85	5.94	36.27	I	D	SP	P
MAT	69.833	323.63	5.87	35.79	I	D	SP	P
SPA	70.038	180.00	5.86	35.70	I	C	SP	P
BAG	70.322	296.56	5.84	35.60	I	D	LP	P
ADK	71.663	0.91	5.75	34.95	I	D	SP	P
NKI	73.154	5.81	5.65	34.26	I	D	SP	P
SDN	76.599	10.22	5.44	32.78	I	D	SP	P
SSE	77.368	309.92	5.37	32.33	E	D	LP	P
PRI	77.913	44.23	5.31	31.94	I	D	SP	P
BKS	77.937	42.04	5.31	31.92	I	D	SP	P
JAS	79.118	42.85	5.21	31.28	I	D	SP	P
WDC	79.398	39.71	5.19	31.12	I	D	SP	P
KDC	80.415	13.58	5.13	30.71	I	D	SP	P
IPM	83.045	277.43	4.97	29.66	I	D	SP	P
LON	83.619	35.13	4.92	29.36	I	D	LP	P
TTA	84.547	9.94	4.84	28.81	I	D	SP	P
PME	84.683	13.47	4.83	28.75	I	D	SP	P
BJI	85.547	315.40	4.79	28.48	E	D	LP	P
PNT	86.348	33.98	4.75	28.22	I	D	SP	P
NEW	87.077	35.80	4.72	28.03	I	D	SP	P
NST	87.845	287.42	4.71	27.99	I	D	SP	P
IMA	87.848	9.71	4.71	27.99	I	D	SP	P
COL	87.851	12.43	4.71	27.99	I	D	SP	P
FBA	87.851	12.43	4.71	27.99	I	D	SP	P
LHD	87.938	36.39	4.71	27.98	I	D	LP	P
CLX	88.149	36.59	4.71	27.97	I	D	LP	P
LDM	88.181	36.31	4.71	27.96	I	D	LP	P
KMI	89.099	297.06	4.69	27.83	E	D	LP	P

Table 150. Station data for event 22 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BDT	89.423	288.49	4.68	27.79	I	D	SP	P
SES	91.577	36.13	4.63	27.45	I	D	SP	P
EDM	91.800	32.96	4.62	27.38	I	D	SP	P
LZH	92.461	307.50	4.59	27.22	I	D	LP	P
MTD	133.199	220.56	1.83	10.49	I	C	SP	PKP
MUD	143.283	353.28	1.70	9.77	I	D	SP	PKP
COP	143.592	349.98	1.70	9.74	I	D	LP	PKP
ESK	144.617	5.07	1.68	9.62	I	D	SP	PKP
ECK	144.758	5.02	1.67	9.60	I	D	SP	PKP
DMU	145.576	9.26	1.66	9.50	I	D	SP	PKP
HAM	146.120	351.42	1.64	9.43	I	D	SP	PKP
DDK	146.158	8.90	1.64	9.42	I	D	SP	PKP
DLE	146.224	9.15	1.64	9.41	I	D	SP	PKP
BRG	147.847	345.64	1.60	9.18	I	D	SP	PKP
HOF	148.824	347.64	1.57	9.02	I	D	SP	PKP
BNS	148.914	353.57	1.57	9.01	I	D	SP	PKP
UCC	149.297	356.98	1.56	8.94	E	D	LP	PKP
TNS	149.489	351.74	1.56	8.91	I	D	SP	PKP
KHC	149.556	344.82	1.55	8.90	I	D	SP	PKP
PVL	149.854	324.89	1.54	8.85	I	D	SP	PKP
KDZ	150.747	322.43	1.52	8.69	I	D	SP	PKP
BNG	157.550	228.31	1.26	7.19	I	D	SP	PKP

Table 151. Station data for event 31.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VUN	7.177	252.29	13.38	86.57	I	C	SP	P
PVC	16.693	261.36	12.23	65.75	I	D	SP	P
KOU	20.802	254.01	9.97	48.02	I	D	SP	P
HNR	25.876	281.35	9.30	43.92	I	D	LP	P
SNZO	26.998	198.36	9.19	43.27	I	D	LP	P
COO	34.113	238.71	8.56	39.69	I	D	SP	P
RAB	34.900	285.94	8.52	39.43	E	D	LP	P
RIV	35.780	233.73	8.46	39.14	I	D	LP	P
CTA	37.632	257.68	8.35	38.53	I	D	LP	P
CAN	37.980	232.49	8.33	38.42	I	D	SP	P
PMG	38.067	275.06	8.33	38.39	I	D	LP	P
YOU	38.098	234.36	8.32	38.38	I	D	SP	P
WAM	38.386	231.24	8.31	38.28	I	D	SP	P
HON	40.341	23.91	8.20	37.69	E	N	LP	P
TOO	41.420	230.77	8.14	37.41	I	D	SP	P
BFD	43.514	232.44	8.03	36.79	I	D	SP	P
ADE	45.963	236.59	7.89	36.06	I	D	SP	P
WB3	48.816	257.31	7.69	35.02	I	D	SP	P
WB2	48.819	257.28	7.69	35.02	I	D	SP	P
ASPA	49.078	252.35	7.67	34.91	I	D	SP	P
GUA	49.793	303.79	7.62	34.62	I	D	LP	P
GUMO	49.857	303.81	7.61	34.59	E	D	LP	P
WBN	55.665	249.03	7.16	32.26	I	D	SP	P
DRV	58.789	199.45	6.93	31.11	I	D	SP	P
KLB	63.177	242.37	6.58	29.37	I	D	SP	P
NWAO	63.561	240.86	6.55	29.22	I	D	LP	P
DAV	63.709	286.39	6.53	29.16	I	D	LP	P
MUN	64.475	241.86	6.47	28.86	I	D	SP	P
NAU	66.045	252.09	6.34	28.20	I	D	SP	P
MAT	68.753	320.47	6.12	27.15	I	D	SP	P
MAJO	68.753	320.47	6.12	27.15	I	D	LP	P
TRT	71.646	267.03	5.91	26.15	I	D	SP	P
BAG	71.780	293.61	5.90	26.13	I	D	LP	P
SPA	74.170	180.00	5.74	25.34	I	D	SP	P
TATO	74.570	302.07	5.71	25.18	E	D	LP	P
ANP	74.638	302.28	5.70	25.16	I	D	LP	P
QZH	76.933	300.88	5.55	24.47	I	D	SP	P
LON	78.209	33.89	5.47	24.10	E	N	LP	P
MDJ	78.885	322.85	5.43	23.88	I	D	SP	P
NJ2	79.753	307.52	5.34	23.46	I	D	SP	P
GZH	80.621	297.23	5.25	23.05	I	D	SP	P
DL2	80.895	314.73	5.23	22.95	I	D	SP	P
CN2	80.903	320.48	5.23	22.95	I	D	SP	P
SNY	81.048	318.05	5.22	22.89	I	D	SP	P
ANMO	81.842	50.26	5.16	22.63	E	N	LP	P
COL	83.085	11.08	5.08	22.29	I	D	SP	P
COL	83.085	11.08	5.08	22.29	I	D	LP	P
COL	83.085	11.08	5.08	157.71	E	L	LP	AP
EDM	86.415	31.80	4.84	21.14	I	D	SP	P
TIY	86.892	310.50	4.81	21.00	I	D	SP	P

Table 151. Station data for event 31 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RSSD	87.467	42.75	4.78	20.89	E	D	LP	P
CON	89.345	128.10	4.71	20.58	I	C	SP	P
BTO	89.712	312.47	4.71	20.55	I	D	SP	P
TUL	90.249	52.72	4.70	20.51	E	D	LP	P
KMI	90.429	295.89	4.70	20.52	I	D	LP	P
RSNT	90.943	23.67	4.69	20.48	E	D	LP	P
CD2	91.304	301.66	4.68	20.41	I	D	SP	P
CHTO	92.008	288.87	4.66	20.34	I	D	LP	P
CHG	92.008	288.87	4.66	20.34	I	D	SP	P
LZH	92.799	306.61	4.64	20.23	I	D	SP	P
TLL	93.372	122.50	4.62	20.17	I	C	SP	P
RSON	96.425	39.00	4.53	19.75	E	D	LP	P
GTA	96.795	308.91	4.52	19.72	I	D	SP	P
UPA	97.015	82.67	4.52	19.70	I	C	LP	P
RSCP	98.117	55.39	4.50	19.59	E	D	LP	P
DAG	117.856	6.18	1.88	8.04	E	C	LP	PKP
MHI	128.265	303.82	1.86	7.96	I	D	LP	PKP
MUD	139.463	356.99	1.77	7.60	I	D	SP	PKP
MSL	140.992	308.69	1.75	7.51	I	D	SP	PKP
KRA	144.051	344.27	1.70	7.28	I	D	SP	PKP
BRG	144.515	350.94	1.69	7.25	I	D	SP	PKP
SPC	144.760	343.35	1.69	7.23	I	D	SP	PKP
NAI	144.794	243.79	1.69	7.22	I	D	SP	PKP
MOX	145.044	353.36	1.68	7.20	I	D	SP	PKP
PRU	145.278	349.91	1.68	7.18	I	D	SP	PKP
JOS	145.304	342.52	1.68	7.18	I	D	SP	PKP
HOF	145.342	352.97	1.67	7.18	I	D	SP	PKP
TNS	145.726	356.80	1.67	7.14	I	D	SP	PKP
MLR	145.960	334.16	1.66	7.12	I	D	SP	PKP
GRF	146.029	353.52	1.66	7.11	I	D	SP	PKP
WLF	146.358	359.41	1.65	7.08	E	D	LP	PKP
WET	146.357	351.42	1.65	7.08	I	D	SP	PKP
VKA	146.587	347.02	1.65	7.05	I	D	SP	PKP
STU	147.125	355.68	1.63	7.00	I	D	LP	PKP
KMR	147.215	349.47	1.63	6.99	E	D	LP	PKP
IST	147.841	325.72	1.62	6.92	I	D	LP	PKP
KBA	148.297	349.97	1.60	6.87	I	D	SP	PKP
GRC	148.659	3.37	1.59	6.83	I	D	SP	PKP
OGA	148.836	352.86	1.59	6.81	I	D	SP	PKP
ELL	150.114	318.52	1.55	6.65	I	D	SP	PKP
THE	151.163	331.98	1.52	6.51	I	D	SP	PKP
PTO	152.020	23.35	1.49	6.39	I	D	LP	PKP
PTO	152.020	23.35	1.49	6.39	I	D	SP	PKP
ATH	152.874	327.48	1.46	6.26	I	D	SP	PKP
CAP	154.062	344.97	1.42	6.08	I	D	SP	PKP
CAT	156.938	340.53	1.30	5.58	I	D	SP	PKP
ALM	157.958	17.55	1.26	5.39	I	D	SP	PKP
IFR	159.971	27.13	1.17	4.99	I	D	SP	PKP
BNG	162.936	229.33	1.02	4.35	I	D	SP	PKP

Table 152. Station data for event 33.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	4.072	329.57	7.10	134.07	I	C	SP	P
VUN	4.164	330.38	7.19	133.28	I	C	SP	P
NDF	4.901	321.84	7.90	126.92	I	C	SP	P
AFI	10.569	44.43	9.87	93.05	I	C	SP	P
PVC	12.234	286.44	9.86	86.86	I	D	SP	P
NOU	13.167	264.55	9.82	83.60	I	D	SP	P
KOU	15.292	271.12	9.64	77.49	I	D	SP	P
KRP	16.793	194.05	9.52	74.44	I	C	SP	P
HNR	23.300	298.26	8.95	65.01	I	D	LP	P
COO	27.225	245.00	8.67	61.40	I	D	SP	P
RIV	28.655	238.65	8.60	60.48	I	D	SP	P
CAN	30.803	236.87	8.48	59.11	I	D	SP	P
YOU	30.993	239.09	8.47	59.00	I	D	SP	P
WAM	31.166	235.32	8.46	58.91	I	D	SP	P
CTA	32.117	266.45	8.41	58.35	I	D	LP	P
RAB	32.611	298.14	8.38	58.01	E	D	LP	P
PMG	34.384	285.50	8.28	56.96	I	D	LP	P
LAT	35.739	289.65	8.21	56.26	I	D	SP	P
ISQ	38.230	263.68	8.09	54.99	I	D	SP	P
ADE	38.936	240.82	8.06	54.64	I	D	SP	P
ASPA	43.017	258.10	7.83	52.47	I	D	SP	P
WB2	43.170	263.56	7.83	52.38	I	D	SP	P
MTN	47.907	272.08	7.48	49.24	I	D	SP	P
WBN	49.329	253.62	7.37	48.23	I	D	SP	P
GUMO	49.579	311.72	7.35	48.07	E	D	LP	P
DRV	51.840	199.26	7.19	46.67	I	C	SP	P
NAU	59.893	255.82	6.60	41.95	I	D	SP	P
DAV	61.058	291.63	6.51	41.22	I	D	LP	P
TRT	66.773	270.77	6.07	37.92	I	D	SP	P
SPA	68.475	180.00	5.95	37.06	I	C	SP	P
BAG	69.952	297.72	5.86	36.35	I	D	LP	P
MAT	70.389	324.78	5.82	36.11	I	D	SP	P
MAJO	70.389	324.78	5.82	36.11	E	D	LP	P
TATO	73.795	305.78	5.61	34.57	E	D	LP	P
ANP	73.888	305.97	5.60	34.53	I	D	LP	P
QZH	75.984	304.27	5.47	33.65	I	D	SP	P
SSE	77.453	310.82	5.35	32.78	E	D	LP	P
MHC	79.964	43.19	5.14	31.38	I	C	SP	P
SBB	80.945	47.20	5.09	30.99	I	C	LP	P
FRI	81.002	44.40	5.08	30.96	I	C	SP	P
JAS	81.091	43.28	5.08	30.93	I	C	SP	P
WDC	81.378	40.16	5.06	30.81	I	C	SP	P
CWC	81.758	45.62	5.04	30.66	I	C	LP	P
GLA	82.147	49.96	5.01	30.50	I	C	LP	P
CN2	82.436	323.15	5.00	30.38	I	D	SP	P
MNA	82.837	43.93	4.97	30.23	I	C	SP	P
LON	85.599	35.60	4.78	28.92	E	C	LP	P
BDT	88.771	288.98	4.69	28.37	I	D	SP	P
NEW	89.057	36.26	4.69	28.34	I	C	SP	P
ANMO	89.123	51.76	4.69	28.33	E	C	LP	P

Table 152. Station data for event 33 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CHTO	89.433	290.39	4.68	28.29	I	N	LP	P
CHG	89.433	290.39	4.68	28.29	I	D	LP	P
COL	89.643	12.91	4.68	28.25	E	N	LP	P
CLX	90.130	37.05	4.66	28.13	I	C	SP	P
LDM	90.161	36.78	4.66	28.13	I	C	SP	P
YKM	90.168	36.29	4.66	28.12	I	C	SP	P
RXF	90.493	36.50	4.65	28.08	I	C	SP	P
LNV	91.979	127.70	4.61	27.83	I	C	SP	P
CHCH	92.547	127.98	4.59	27.68	I	C	SP	P
ROCH	92.732	126.99	4.58	27.63	I	C	SP	P
PEL	92.894	127.27	4.58	27.59	I	C	SP	P
FCH	93.098	127.59	4.57	27.54	I	C	SP	P
EDM	93.774	33.41	4.55	27.39	I	C	SP	P
TLL	94.195	124.60	4.54	27.33	I	C	SP	P
RSSD	94.872	44.37	4.52	27.25	E	C	LP	P
BLF	123.838	207.04	1.87	10.89	I	D	SP	PKP
MHI	127.212	299.74	1.86	10.84	I	D	SP	PKP
COP	144.899	348.37	1.67	9.73	I	C	LP	PKP
PPE	147.102	324.53	1.62	9.44	I	D	SP	PKP
HAM	147.462	349.65	1.61	9.38	I	C	SP	PKP
VRI	147.802	324.77	1.60	9.33	I	D	SP	PKP
BRG	149.031	343.52	1.57	9.13	I	C	SP	PKP
IST	149.220	315.38	1.56	9.10	E	N	LP	PKP
DST	150.172	313.17	1.53	8.93	I	D	SP	PKP
PVL	150.384	322.02	1.53	8.89	I	D	SP	PKP
VKA	150.624	338.38	1.52	8.85	I	C	SP	PKP
KHC	150.713	342.48	1.52	8.83	I	C	SP	PKP
STU	152.096	347.84	1.47	8.56	I	C	SP	PKP
KBA	152.630	340.89	1.45	8.45	I	C	SP	PKP
SLE	153.195	348.18	1.43	8.34	E	C	LP	PKP
ZUL	153.488	348.15	1.42	8.27	E	C	LP	PKP
SAX	153.514	346.61	1.42	8.27	E	C	LP	PKP
TRI	153.711	338.92	1.41	8.22	I	C	SP	PKP
OSS	153.864	345.02	1.41	8.19	E	C	LP	PKP
LLS	153.951	346.85	1.40	8.17	E	C	LP	PKP
VDL	154.210	345.86	1.39	8.11	E	C	LP	PKP
LOR	154.320	354.91	1.39	8.09	I	C	SP	PKP
GRC	154.350	356.15	1.39	8.08	I	C	SP	PKP
SSF	154.553	355.41	1.38	8.04	I	C	SP	PKP
LBF	154.592	354.65	1.38	8.03	I	C	SP	PKP
TMA	154.703	346.49	1.38	8.00	E	C	LP	PKP
MMK	154.942	347.87	1.37	7.95	E	C	LP	PKP
SMF	154.940	354.76	1.37	7.95	I	C	SP	PKP
DIX	155.019	348.77	1.36	7.93	E	C	LP	PKP
EMS	155.113	349.53	1.36	7.91	E	C	LP	PKP
TCF	155.400	357.36	1.35	7.84	I	C	SP	PKP
LSF	155.461	358.49	1.34	7.82	I	C	SP	PKP
BNG	155.600	227.96	1.34	7.79	I	C	SP	PKP
CAF	156.766	357.41	1.29	7.51	I	C	SP	PKP
CVF	158.039	343.54	1.23	7.18	I	C	SP	PKP

Table 152. Station data for event 33 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
EPF	158.690	0.58	1.20	7.01	I	C	SP	PKP
PTO	159.071	19.82	1.19	6.90	E	C	LP	PKP
KIC	163.931	160.38	0.95	5.49	I	C	SP	PKP
IFR	167.140	22.10	0.77	4.47	I	C	SP	PKP

Table 153. Station data for event 38.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RAB	32.697	289.97	8.51	47.37	E	D	LP	P
RIV	32.746	233.77	8.50	47.34	I	D	LP	P
CTAO	34.657	259.59	8.40	46.57	I	D	LP	P
CTA	34.657	259.59	8.40	46.57	I	D	LP	P
CAN	34.958	232.51	8.38	46.44	I	D	SP	P
YOU	35.058	234.52	8.37	46.40	I	D	SP	P
WAM	35.378	231.17	8.35	46.25	I	D	SP	P
PMG	35.483	278.13	8.34	46.21	E	D	LP	P
TOO	38.417	230.77	8.19	45.10	I	D	SP	P
ISQ	40.915	258.18	8.06	44.19	I	D	SP	P
ADE	42.905	237.04	7.95	43.44	I	D	SP	P
WB2	45.837	258.81	7.77	42.23	I	D	SP	P
WB3	45.834	258.83	7.77	42.23	I	D	SP	P
ASPA	46.040	253.63	7.75	42.12	I	D	SP	P
GUA	48.336	306.97	7.58	40.98	I	D	LP	P
GUMO	48.401	306.98	7.58	40.94	I	D	LP	P
WBN	52.603	250.08	7.25	38.84	I	D	SP	P
MEK	59.761	248.94	6.72	35.57	I	D	SP	P
NWAO	60.484	241.61	6.67	35.21	I	D	LP	P
RKG	60.631	240.30	6.65	35.14	I	D	SP	P
DAV	61.484	288.31	6.59	34.72	I	D	LP	P
NAU	63.004	253.14	6.46	33.99	I	D	SP	P
MAJO	68.106	322.48	6.07	31.65	I	D	LP	P
MAT	68.106	322.48	6.07	31.65	I	D	SP	P
TRT	68.834	268.30	6.02	31.35	I	D	SP	P
BAG	69.835	295.26	5.95	30.95	I	D	LP	P
SPA	72.801	180.00	5.74	29.76	I	C	SP	P
TATO	72.995	303.66	5.72	29.68	I	D	LP	P
ANP	73.073	303.86	5.72	29.65	I	D	LP	P
QZH	75.301	302.34	5.58	28.87	I	D	SP	P
MHC	75.420	42.80	5.58	28.84	I	C	SP	P
MWC	76.105	47.14	5.53	28.55	I	C	LP	P
FRI	76.490	44.00	5.50	28.43	I	C	SP	P
SBB	76.515	46.84	5.50	28.43	I	C	LP	P
JAS	76.549	42.86	5.50	28.41	I	C	SP	P
ISA	76.591	45.71	5.50	28.40	I	C	LP	P
CWC	77.279	45.22	5.45	28.13	I	C	SP	P
HKC	77.804	298.10	5.42	27.95	I	D	SP	P
MDJ	78.348	324.28	5.36	27.63	I	D	SP	P
NJ2	78.431	308.87	5.35	27.58	I	D	SP	P
CN2	80.238	321.80	5.19	26.65	I	D	SP	P
SNY	80.256	319.36	5.19	26.66	I	D	SP	P
LON	80.898	34.99	5.15	26.44	E	C	LP	P
BJI	84.153	314.90	4.95	25.33	E	D	LP	P
NEW	84.366	35.60	4.92	25.17	I	C	SP	P
ANMO	84.844	51.16	4.88	24.94	I	C	LP	P
COL	84.981	12.15	4.87	24.89	I	C	SP	P
CLX	85.452	36.37	4.83	24.72	I	C	SP	P
YKM	85.477	35.61	4.83	24.71	I	C	SP	P
LDM	85.479	36.10	4.83	24.71	I	C	SP	P

Table 153. Station data for event 38 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TIY	85.707	311.50	4.82	24.64	I	D	SP	P
RXF	85.806	35.82	4.82	24.61	I	C	SP	P
KMI	88.563	296.73	4.71	24.04	I	D	LP	P
SES	88.871	35.85	4.70	24.00	I	C	SP	P
EDM	89.044	32.69	4.70	23.99	I	C	SP	P
BDT	89.313	288.19	4.70	24.00	I	D	SP	P
CD2	89.693	302.46	4.70	23.98	I	D	SP	P
CHG	89.855	289.65	4.69	23.96	I	D	SP	P
CHTO	89.855	289.65	4.69	23.96	I	D	LP	P
QZO	90.237	53.49	4.68	23.90	I	C	SP	P
RSSD	90.353	43.59	4.68	23.87	I	C	LP	P
LZH	91.418	307.32	4.65	23.74	I	D	SP	P
RSNT	93.317	24.41	4.59	23.39	E	C	LP	P
TACH	93.466	126.67	4.58	23.36	I	C	SP	P
ROCH	93.678	126.02	4.58	23.32	I	C	SP	P
PCH	93.804	126.78	4.57	23.28	I	C	SP	P
PEL	93.861	126.28	4.57	23.27	I	C	SP	P
FCH	94.092	126.58	4.56	23.23	I	C	SP	P
JACH	94.116	125.89	4.56	23.23	I	C	SP	P
RSON	99.232	39.65	4.44	22.57	E	C	LP	P
UPA	99.917	83.65	4.44	22.59	E	C	LP	P
DAG	119.500	5.58	1.87	9.33	I	C	SP	PKP
ETA	143.993	9.30	1.69	8.43	I	C	SP	PKP
ECB	144.220	10.02	1.69	8.41	I	C	SP	PKP
ECP	144.468	9.69	1.69	8.38	I	C	SP	PKP
KSP	144.842	345.08	1.68	8.34	I	C	SP	PKP
WTS	145.248	355.62	1.67	8.30	I	C	SP	PKP
VRI	145.240	330.16	1.67	8.30	I	C	SP	PKP
TLB	145.507	327.42	1.66	8.27	I	C	SP	PKP
JOS	145.685	338.89	1.66	8.25	I	C	SP	PKP
CMP	146.479	331.01	1.64	8.16	I	C	SP	PKP
DST	148.419	319.95	1.59	7.92	I	C	SP	PKP
EDC	148.421	321.76	1.59	7.92	I	C	SP	PKP
FLN	148.521	4.12	1.59	7.90	I	C	SP	PKP
LDF	148.712	3.70	1.58	7.88	I	C	SP	PKP
GRR	148.865	4.68	1.58	7.86	I	C	SP	PKP
KBA	149.059	345.88	1.57	7.83	I	C	SP	PKP
LPF	149.205	5.00	1.57	7.81	I	C	SP	PKP
SSF	150.329	358.98	1.54	7.64	I	C	SP	PKP
MFF	150.694	4.11	1.53	7.58	I	C	SP	PKP
TCF	151.105	0.81	1.51	7.52	I	C	SP	PKP
LSF	151.128	1.78	1.51	7.51	I	C	SP	PKP
MZF	151.181	0.27	1.51	7.50	I	C	SP	PKP
RJF	152.073	1.89	1.48	7.35	I	C	SP	PKP
LFF	152.404	3.11	1.47	7.30	I	C	SP	PKP
CAF	152.465	1.09	1.47	7.29	I	C	SP	PKP
LPO	152.681	2.46	1.46	7.25	I	C	SP	PKP
EPF	154.282	4.11	1.40	6.96	I	C	SP	PKP
PTO	154.314	20.10	1.40	6.95	E	C	LP	PKP
BNG	159.934	232.19	1.16	5.74	I	C	SP	PKP

Table 153. Station data for event 38 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
IFR	162.370	22.28	1.03	5.13	I	C	SP	PKP

Table 154. Station data for event 46.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	3.509	57.70	11.48	115.39	I	D	SP	P
NDE	5.674	261.44	12.49	100.55	E	C	SP	P
OVA	6.394	252.17	12.60	97.26	I	C	SP	P
VUN	6.778	250.30	12.65	95.59	I	C	SP	P
SVA	6.817	249.45	12.65	95.43	I	C	SP	P
NDF	7.641	254.29	12.70	91.87	I	C	SP	P
PVC	16.256	260.86	11.27	62.50	I	D	SP	P
NOU	18.826	247.06	10.15	52.98	I	D	SP	P
HNR	25.401	281.43	9.25	46.73	I	D	LP	P
RAB	34.425	286.09	8.50	41.96	E	D	LP	P
RIV	35.479	233.35	8.44	41.64	I	D	SP	P
CTA	37.206	257.53	8.34	41.03	I	D	LP	P
CTAO	37.206	257.53	8.34	41.03	I	D	LP	P
PMG	37.597	275.10	8.32	40.88	I	D	LP	P
CAN	37.687	232.14	8.31	40.84	I	D	SP	P
YOU	37.793	234.02	8.30	40.81	I	D	SP	P
WAM	38.101	230.88	8.29	40.70	I	D	SP	P
CMS	39.032	239.32	8.23	40.37	I	D	SP	P
HON	40.424	24.59	8.16	39.93	I	D	LP	P
TOO	41.138	230.46	8.12	39.74	I	D	SP	P
TAU	42.080	222.28	8.07	39.41	I	D	LP	P
STK	42.640	239.97	8.04	39.28	I	D	SP	P
BFD	43.221	232.18	8.01	39.07	I	D	SP	P
ISQ	43.485	256.46	7.99	38.97	I	D	SP	P
MCQ	43.633	201.93	7.99	38.93	I	D	SP	P
ADE	45.643	236.38	7.87	38.29	I	D	SP	P
ADE	45.643	236.38	7.87	38.29	I	D	LP	P
WB2	48.395	257.22	7.68	37.19	I	D	SP	P
ASPA	48.674	252.26	7.66	37.06	I	D	SP	P
GUA	49.345	304.06	7.60	36.76	I	D	LP	P
GUMO	49.409	304.08	7.60	36.73	I	D	LP	P
MTN	52.328	265.83	7.36	35.42	I	D	SP	P
DRV	58.747	199.30	6.89	32.85	I	D	SP	P
KLG	59.680	243.37	6.82	32.45	I	D	SP	P
MBL	61.827	254.21	6.65	31.53	I	D	SP	P
MEK	62.446	247.96	6.60	31.27	I	D	SP	P
KLB	62.823	242.34	6.57	31.11	I	D	SP	P
NWAO	63.215	240.83	6.53	30.95	I	D	LP	P
NWAO	63.215	240.83	6.53	30.95	I	D	SP	P
DAV	63.234	286.53	6.53	30.94	E	D	LP	P
RKG	63.366	239.55	6.52	30.89	I	D	SP	P
BAL	63.776	243.38	6.49	30.71	I	D	SP	P
MUN	64.124	241.84	6.46	30.57	I	D	SP	P
MAP	65.901	289.17	6.31	29.77	I	C	SP	P
CNP	66.137	291.65	6.29	29.67	I	D	SP	P
KYS	66.301	320.75	6.28	29.60	I	D	SP	P
OYM	67.002	320.39	6.22	29.31	I	D	SP	P
TSK	67.002	321.54	6.22	29.31	I	D	SP	P
SRY	67.107	320.57	6.21	29.27	I	D	SP	P
DDR	67.414	320.84	6.19	29.14	I	D	SP	P

Table 154. Station data for event 46 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ADK	67.423	358.76	6.19	29.14	I	D	SP	P
MAT	68.370	320.71	6.11	28.75	I	D	LP	P
MAJO	68.370	320.71	6.11	28.75	I	D	LP	P
SMY	68.922	352.81	6.08	28.57	I	D	SP	P
SHK	70.663	316.04	5.95	27.92	I	D	SP	P
BAG	71.311	293.77	5.90	27.69	I	D	LP	P
PIP	72.041	295.62	5.85	27.40	I	D	SP	P
BKS	72.711	41.18	5.81	27.19	I	D	SP	P
PRI	72.710	43.42	5.81	27.19	I	D	SP	P
MHC	72.772	41.92	5.80	27.15	I	D	SP	P
PAS	73.291	46.34	5.76	26.98	I	D	SP	P
FRI	73.828	43.15	5.73	26.82	I	D	SP	P
SBB	73.824	46.03	5.73	26.82	I	D	SP	P
JAS	73.900	41.99	5.73	26.79	I	D	LP	P
JAS	73.900	41.99	5.73	26.79	I	D	SP	P
TATO	74.117	302.24	5.71	26.71	I	D	LP	P
WDC	74.155	38.79	5.71	26.70	I	D	SP	P
ANP	74.186	302.45	5.71	26.69	I	D	LP	P
SPA	74.287	180.00	5.70	26.64	I	D	SP	P
MNA	75.655	42.64	5.61	26.21	I	D	SP	P
COR	76.200	35.18	5.58	26.04	I	D	SP	P
LEM	76.230	266.71	5.58	26.03	I	D	LP	P
SSE	77.110	307.73	5.51	25.72	I	D	LP	P
BMN	77.365	41.35	5.50	25.65	I	D	SP	P
SVW	78.181	9.40	5.45	25.39	I	D	SP	P
LON	78.370	34.12	5.43	25.31	I	D	LP	P
DUG	80.100	43.37	5.26	24.47	I	D	SP	P
PNT	81.103	32.96	5.18	24.07	I	D	SP	P
NEW	81.826	34.80	5.13	23.82	I	D	SP	P
ALQ	82.120	50.45	5.11	23.73	I	D	SP	P
ANMO	82.123	50.44	5.11	23.73	I	D	LP	P
MOT	82.243	55.21	5.11	23.69	I	D	SP	P
LHD	82.687	35.40	5.08	23.56	I	D	LP	P
CLX	82.898	35.59	5.07	23.50	I	D	LP	P
YKM	82.937	34.83	5.06	23.49	I	D	LP	P
LDM	82.930	35.32	5.06	23.49	I	D	LP	P
COL	83.059	11.27	5.06	23.45	I	D	SP	P
COL	83.059	11.27	5.06	23.45	I	D	LP	P
FBA	83.059	11.27	5.06	23.45	I	D	SP	P
IMA	83.164	8.53	5.05	23.42	I	D	SP	P
LRM	83.192	38.61	5.05	23.41	I	D	SP	P
BUT	83.223	38.41	5.05	23.41	I	D	SP	P
RXF	83.262	35.04	5.04	23.39	I	D	LP	P
BDW	83.490	42.31	5.03	23.33	I	D	SP	P
BJI	84.755	313.96	4.95	22.94	I	D	SP	P
GOL	84.933	46.50	4.94	22.87	I	D	LP	P
JCT	85.524	56.78	4.88	22.58	I	D	SP	P
EDM	86.559	31.96	4.81	22.23	I	D	SP	P
SNG	86.728	278.35	4.80	22.18	I	D	LP	P
MAW	86.962	198.93	4.78	22.11	I	D	SP	P

Table 154. Station data for event 46 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BRW	87.775	5.75	4.75	21.95	I	D	SP	P
NST	89.567	286.32	4.70	21.71	I	D	SP	P
KMI	89.963	296.02	4.70	21.71	I	D	LP	P
TUL	90.545	52.85	4.69	21.66	I	D	LP	P
RSNT	91.021	23.79	4.68	21.61	I	D	SP	P
RSNT	91.021	23.79	4.68	21.61	I	D	LP	P
BDT	91.047	287.51	4.68	21.61	I	D	SP	P
CHTO	91.534	289.00	4.67	21.56	I	D	LP	P
CHG	91.534	289.00	4.67	21.56	I	C	SP	P
CHG	91.534	289.00	4.67	21.56	I	D	LP	P
LZH	92.360	306.73	4.64	21.44	I	D	SP	P
RSON	96.625	39.09	4.52	20.83	I	D	LP	P
RSON	96.625	39.09	4.52	20.83	I	D	SP	P
RSCP	98.430	55.47	4.47	20.61	I	D	LP	P
LPA	101.753	131.52	4.44	20.45	I	D	LP	Pdf
BLA	102.836	54.73	4.44	20.45	E	D	LP	Pdf
BLA	102.836	54.73	4.44	20.45	I	D	LP	Pdf
WES	110.394	50.23	1.89	8.55	E	D	LP	PKP
GDH	115.548	19.73	1.88	8.51	I	D	LP	PKP
QUE	121.978	295.91	1.87	8.46	I	D	SP	PKP
AVY	125.727	232.07	1.86	8.43	I	D	SP	PKP
MHI	127.816	303.82	1.86	8.41	I	D	LP	PKP
SEK	131.037	206.52	1.84	8.35	I	D	SP	PKP
DHR	136.944	291.68	1.80	8.15	I	D	SP	PKP
COP	139.823	353.63	1.77	7.99	E	D	LP	PKP
HAM	142.251	355.36	1.73	7.82	I	D	SP	PKP
ARO	143.176	268.19	1.71	7.75	I	D	SP	PKP
DBN	143.803	359.99	1.70	7.70	I	D	LP	PKP
KRA	143.811	343.84	1.70	7.70	I	D	SP	PKP
WTS	143.885	358.28	1.70	7.69	I	D	SP	PKP
KSP	143.932	348.01	1.70	7.69	I	D	SP	PKP
BRG	144.325	350.46	1.69	7.66	I	D	SP	PKP
SPC	144.514	342.90	1.69	7.64	I	D	SP	PKP
BNS	144.905	357.79	1.68	7.60	I	D	SP	PKP
CFR	144.908	331.29	1.68	7.60	I	D	SP	PKP
PRU	145.080	349.42	1.68	7.59	I	D	SP	PKP
UCC	145.102	0.90	1.68	7.58	E	D	LP	PKP
ENN	145.134	359.16	1.68	7.58	I	D	SP	PKP
HOF	145.167	352.46	1.68	7.58	I	D	SP	PKP
MSR	145.674	335.45	1.66	7.53	I	D	SP	PKP
GRF	145.859	352.99	1.66	7.51	I	D	SP	PKP
WET	146.170	350.89	1.65	7.48	I	D	SP	PKP
WLF	146.234	358.85	1.65	7.47	E	D	SP	PKP
VKA	146.367	346.51	1.65	7.46	I	D	SP	PKP
STU	146.971	355.11	1.63	7.39	I	D	LP	PKP
STU	146.971	355.11	1.63	7.39	I	D	LP	PKP
GZR	147.005	336.96	1.63	7.39	I	D	SP	PKP
KMR	147.013	348.93	1.63	7.39	E	D	LP	PKP
GPA	147.252	323.07	1.63	7.36	I	D	SP	PKP
FUR	147.353	352.41	1.63	7.35	I	D	SP	PKP

Table 154. Station data for event 46 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DMK	147.593	327.61	1.62	7.32	I	D	SP	PKP
PVL	147.846	331.94	1.61	7.29	I	D	SP	PKP
SLE	148.025	355.76	1.61	7.27	I	D	SP	PKP
KBA	148.099	349.40	1.61	7.26	I	D	SP	PKP
ZUL	148.316	355.84	1.60	7.24	I	D	SP	PKP
JER	148.405	305.55	1.60	7.23	I	D	SP	PKP
SAX	148.468	354.56	1.60	7.22	I	D	SP	PKP
GRC	148.566	2.74	1.59	7.21	I	D	SP	PKP
BCK	148.858	318.66	1.59	7.17	I	D	SP	PKP
PLD	148.877	331.22	1.59	7.17	I	D	SP	PKP
LLS	148.877	354.92	1.59	7.17	I	D	SP	PKP
KDZ	148.930	329.93	1.58	7.16	I	D	SP	PKP
OSS	148.945	353.35	1.58	7.16	I	D	SP	PKP
VDL	149.213	354.19	1.58	7.13	I	D	SP	PKP
TMA	149.645	354.90	1.56	7.07	I	D	SP	PKP
ELL	149.720	318.19	1.56	7.06	I	D	SP	PKP
MMB	149.731	331.72	1.56	7.06	I	D	SP	PKP
MMK	149.768	356.13	1.56	7.05	I	D	SP	PKP
DIX	149.771	356.90	1.56	7.05	I	D	SP	PKP
EMS	149.804	357.56	1.56	7.05	I	D	SP	PKP
SKO	150.408	334.97	1.54	6.96	I	D	SP	PKP
VAY	150.465	332.81	1.54	6.96	I	D	SP	PKP
STS	150.576	20.79	1.54	6.94	I	D	SP	PKP
PTO	152.092	22.59	1.49	6.72	I	D	LP	PKP
CDR	152.230	359.07	1.48	6.70	I	D	SP	PKP
ATH	152.526	326.98	1.47	6.65	I	D	SP	PKP
LIS	153.948	26.14	1.42	6.42	I	D	SP	PKP
TOL	154.711	16.77	1.39	6.28	I	D	LP	PKP
SFS	157.082	24.10	1.29	5.84	I	D	SP	PKP
MAL	157.500	20.45	1.28	5.76	I	D	SP	PKP
BNG	162.658	230.71	1.03	4.64	I	D	SP	PKP
KIC	166.485	132.95	0.82	3.70	I	D	SP	PKP

Table 155. Station data for event 53.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VUN	2.576	263.56	5.67	146.57	I	C	SP	P
SVA	2.594	261.18	5.71	146.36	I	C	SP	P
NDF	3.529	269.09	7.11	136.31	I	C	SP	P
AFI	7.794	61.80	10.02	103.30	I	D	SP	P
NOU	14.546	249.36	9.96	75.35	I	D	SP	P
HNR	22.185	289.06	9.21	63.37	E	D	LP	P
COO	29.504	238.87	8.60	56.64	I	D	SP	P
RIV	31.254	233.33	8.51	55.70	I	D	SP	P
CTA	33.064	260.29	8.41	54.73	I	D	SP	P
CAN	33.479	232.09	8.38	54.49	I	D	SP	P
YOU	33.558	234.18	8.38	54.45	I	D	SP	P
CMS	34.747	240.08	8.31	53.78	I	D	SP	P
TOO	36.957	230.40	8.19	52.72	I	D	SP	P
STK	38.352	240.84	8.12	52.07	I	D	SP	P
ISQ	39.318	258.79	8.07	51.62	I	D	SP	P
WB2	44.241	259.41	7.80	49.23	I	D	SP	P
ASPA	44.439	254.09	7.79	49.12	I	D	SP	P
GUMO	47.439	308.62	7.57	47.28	I	C	LP	P
MEK	58.168	249.33	6.77	41.11	I	D	SP	P
KLB	58.529	243.46	6.74	40.90	I	C	SP	P
NWAO	58.925	241.89	6.72	40.72	E	N	LP	P
BAL	59.482	244.55	6.67	40.40	I	D	SP	P
TSK	66.212	324.52	6.15	36.65	I	C	SP	P
TRT	67.280	268.94	6.07	36.12	I	C	SP	P
MAT	67.514	323.57	6.05	36.01	I	C	SP	P
MAJO	67.514	323.57	6.05	36.01	I	C	LP	P
BAG	68.626	296.14	5.98	35.48	E	C	LP	P
SHK	69.459	318.69	5.92	35.08	I	C	SP	P
TATO	71.953	304.53	5.75	33.93	I	C	LP	P
GZH	77.673	299.21	5.37	31.41	I	C	SP	P
MDJ	77.799	325.08	5.35	31.28	I	C	SP	P
SBB	77.933	47.49	5.33	31.18	I	C	LP	P
KDC	78.317	14.07	5.30	30.97	I	C	SP	P
CWC	78.676	45.87	5.27	30.76	I	C	LP	P
CLC	78.681	46.61	5.27	30.76	I	C	LP	P
DL2	79.173	316.79	5.22	30.47	I	C	SP	P
SNY	79.580	320.10	5.19	30.26	I	C	SP	P
CN2	79.624	322.54	5.19	30.24	I	C	SP	P
WHN	80.163	306.40	5.15	29.99	I	C	SP	P
PMR	82.527	13.83	5.01	29.14	I	C	SP	P
PME	82.581	13.86	5.01	29.12	I	C	SP	P
BJI	83.364	315.54	4.97	28.85	I	C	LP	P
PNT	84.823	34.38	4.84	28.01	I	C	SP	P
TIY	84.837	312.09	4.84	28.01	I	C	SP	P
NEW	85.613	36.18	4.79	27.72	I	C	SP	P
COL	85.725	12.75	4.79	27.69	E	C	LP	P
COL	85.725	12.75	4.79	27.69	I	C	SP	P
XAN	85.820	307.54	4.78	27.69	I	C	SP	P
ALQ	86.312	51.69	4.76	27.52	I	C	SP	P
LHD	86.494	36.74	4.75	27.46	I	C	SP	P

Table 155. Station data for event 53 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CLX	86.712	36.93	4.74	27.40	I	C	SP	P
YKM	86.724	36.17	4.74	27.40	I	C	SP	P
LDM	86.734	36.65	4.74	27.40	I	C	SP	P
KMI	87.378	297.26	4.72	27.28	E	C	LP	P
BDW	87.507	43.58	4.72	27.26	I	C	SP	P
CHTO	88.547	290.15	4.70	27.15	I	C	SP	P
CHG	88.547	290.15	4.70	27.15	I	C	SP	P
BRW	90.097	6.97	4.67	26.95	I	C	SP	P
SES	90.121	36.35	4.67	26.94	I	C	SP	P
EDM	90.237	33.18	4.66	26.93	I	C	SP	P
LZH	90.451	307.79	4.66	26.91	I	C	SP	P
RSSD	91.726	44.06	4.62	26.67	I	C	SP	P
SNA	92.156	178.82	4.61	26.61	I	C	SP	P
ACO	92.472	52.33	4.60	26.54	I	C	SP	P
GTA	94.599	309.79	4.54	26.15	I	C	SP	P
MBC	100.257	12.10	4.44	25.54	I	C	SP	Pdf
COP	141.159	349.82	1.74	9.73	I	C	SP	PKP
DMU	143.371	8.00	1.70	9.52	I	C	SP	PKP
DCN	143.862	8.57	1.69	9.47	I	C	SP	PKP
DDK	143.946	7.63	1.69	9.46	I	C	SP	PKP
DLE	144.017	7.87	1.69	9.45	I	C	SP	PKP
CLI	144.061	328.81	1.69	9.44	I	C	SP	PKP
BRN	144.116	347.40	1.69	9.44	I	C	SP	PKP
KRA	144.398	339.11	1.68	9.41	I	C	SP	PKP
CEA	144.400	330.43	1.68	9.41	I	C	SP	PKP
CFR	144.549	326.39	1.68	9.39	I	C	SP	PKP
HNM	144.737	331.85	1.68	9.37	I	C	SP	PKP
BRG	145.398	345.70	1.66	9.29	I	C	SP	PKP
ISR	145.415	327.67	1.66	9.29	I	C	SP	PKP
MLR	145.469	328.64	1.66	9.28	I	C	SP	PKP
JOS	145.497	337.06	1.66	9.28	I	C	SP	PKP
PSN	145.517	324.38	1.66	9.27	I	C	SP	PKP
VLR	145.825	332.39	1.65	9.23	I	C	SP	PKP
CMP	146.075	329.18	1.65	9.20	I	C	SP	PKP
MOX	146.117	348.03	1.65	9.20	I	C	SP	PKP
TNS	147.065	351.37	1.62	9.07	I	C	SP	PKP
KMR	147.951	343.50	1.60	8.94	I	C	LP	PKP
KDZ	148.432	324.06	1.59	8.87	I	C	SP	PKP
CDF	148.999	352.07	1.57	8.78	I	C	SP	PKP
FLN	149.026	2.10	1.57	8.77	I	C	SP	PKP
KBA	149.061	343.69	1.57	8.77	I	C	SP	PKP
LDF	149.206	1.65	1.57	8.75	I	C	SP	PKP
GRR	149.385	2.63	1.56	8.72	I	C	SP	PKP
SLE	149.452	350.24	1.56	8.70	E	C	LP	PKP
HAU	149.514	353.12	1.56	8.69	I	C	SP	PKP
BSF	149.631	352.47	1.55	8.67	I	C	SP	PKP
LPF	149.732	2.92	1.55	8.66	I	C	SP	PKP
ZUL	149.745	350.23	1.55	8.65	E	C	LP	PKP
SAX	149.804	348.87	1.55	8.64	E	C	LP	PKP
OSS	150.189	347.50	1.54	8.58	E	C	LP	PKP

Table 155. Station data for event 53 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LLS	150.235	349.13	1.53	8.57	E	C	LP	PKP
LOR	150.465	356.26	1.53	8.53	I	C	SP	PKP
VDL	150.515	348.28	1.53	8.52	E	C	LP	PKP
SSF	150.692	356.71	1.52	8.49	I	C	SP	PKP
LBF	150.740	356.04	1.52	8.48	I	C	SP	PKP
AVF	150.970	356.88	1.51	8.44	I	C	SP	PKP
TMA	150.994	348.89	1.51	8.44	E	C	LP	PKP
SMF	151.087	356.17	1.51	8.42	I	C	SP	PKP
MFF	151.196	1.86	1.50	8.40	I	C	SP	PKP
MMK	151.204	350.12	1.50	8.40	E	C	LP	PKP
DIX	151.263	350.92	1.50	8.39	E	C	LP	PKP
EMS	151.343	351.60	1.50	8.37	E	C	LP	PKP
TCF	151.517	358.46	1.49	8.34	I	C	SP	PKP
LSF	151.566	359.45	1.49	8.33	I	C	SP	PKP
RJF	152.512	359.44	1.46	8.15	I	C	SP	PKP
LFF	152.877	0.64	1.45	8.08	I	C	SP	PKP
CAF	152.882	358.58	1.45	8.08	I	C	SP	PKP
FRF	153.841	350.92	1.41	7.88	I	C	SP	PKP
CDR	153.850	352.39	1.41	7.88	I	C	SP	PKP
LMR	154.083	351.03	1.40	7.83	I	C	SP	PKP
EPF	154.778	1.40	1.38	7.68	I	C	SP	PKP
BNG	158.445	234.22	1.22	6.80	I	C	SP	PKP

Table 156. Station data for event 65.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	5.479	353.89	8.72	120.49	I	C	SP	P
VUN	5.587	354.06	8.79	119.67	I	C	SP	P
NDF	6.002	345.07	9.05	116.59	I	C	SP	P
PVC	11.630	298.05	10.10	86.24	I	D	SP	P
NOU	11.699	273.79	10.09	85.96	I	D	SP	P
AFI	12.951	43.57	10.01	81.54	I	C	SP	P
KOU	14.038	279.56	9.91	78.31	I	D	SP	P
COO	25.139	248.02	8.85	60.98	I	D	SP	P
RIV	26.445	241.05	8.76	59.99	I	D	SP	P
RMQ	27.587	257.65	8.69	59.23	I	D	SP	P
CAN	28.563	238.99	8.64	58.59	I	D	SP	P
YOU	28.789	241.35	8.62	58.44	I	D	SP	P
WAM	28.902	237.31	8.61	58.37	I	D	SP	P
ALO	30.386	290.92	8.53	57.44	I	D	SP	P
CMS	30.419	247.67	8.53	57.42	I	D	SP	P
CTA	30.623	270.13	8.52	57.32	I	D	SP	P
CTAO	30.623	270.13	8.52	57.32	I	D	LP	P
TOO	31.904	236.26	8.45	56.60	I	D	SP	P
RAB	32.342	302.49	8.43	56.40	E	D	LP	P
TAU	32.527	225.98	8.42	56.30	E	C	LP	P
PMG	33.591	289.46	8.36	55.68	I	D	LP	P
STK	34.052	247.59	8.33	55.40	I	D	SP	P
BFD	34.077	238.05	8.33	55.39	I	D	SP	P
LAT	35.111	293.51	8.28	54.89	I	D	SP	P
ISQ	36.635	266.62	8.19	54.09	I	D	SP	P
ADE	36.760	242.72	8.19	53.99	I	D	SP	P
MDG	36.884	294.39	8.18	53.93	I	D	SP	P
MOM	37.401	300.25	8.16	53.73	I	D	SP	P
TZZ	40.739	290.57	7.98	52.10	I	D	SP	P
ASPA	41.247	260.49	7.96	51.87	I	D	SP	P
WB2	41.565	266.11	7.94	51.69	I	D	SP	P
MTN	46.583	274.53	7.61	48.73	I	D	SP	P
WBN	47.432	255.52	7.55	48.23	I	D	SP	P
TLE	47.980	284.34	7.50	47.87	I	D	SP	P
DRV	49.549	199.26	7.38	46.82	I	C	SP	P
GUA	49.776	314.34	7.37	46.73	E	D	LP	P
GUMO	49.842	314.34	7.36	46.69	E	D	LP	P
HON	49.907	28.34	7.36	46.66	E	C	LP	P
KLK	51.277	248.68	7.26	45.83	I	D	SP	P
KLB	54.318	247.17	7.05	44.13	I	D	SP	P
MEK	54.450	253.33	7.04	44.06	I	D	SP	P
MBL	54.494	260.16	7.03	44.04	I	D	SP	P
NWAO	54.588	245.48	7.03	43.99	I	D	LP	P
NWAO	54.588	245.48	7.03	43.99	I	D	SP	P
RKG	54.640	244.06	7.02	43.96	I	D	SP	P
BAL	55.355	248.20	6.97	43.50	I	D	SP	P
MUN	55.573	246.48	6.95	43.38	I	D	SP	P
MRWA	56.193	249.72	6.91	43.06	I	D	SP	P
WSI	57.632	273.42	6.80	42.19	I	D	SP	P
NAU	58.049	257.34	6.77	42.00	I	D	SP	P

Table 156. Station data for event 65 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	60.113	277.80	6.61	40.76	I	D	SP	P
DAV	60.470	293.53	6.58	40.54	I	D	LP	P
LGP	65.273	298.11	6.20	37.81	I	D	SP	P
TRT	65.387	272.24	6.19	37.75	I	D	SP	P
SPA	66.551	180.00	6.11	37.15	I	C	SP	P
KKM	67.997	287.35	6.01	36.41	I	D	SP	P
BAG	69.605	299.19	5.90	35.64	I	D	LP	P
PIP	70.632	300.90	5.83	35.16	I	D	SP	P
MAJO	71.160	326.17	5.78	34.87	I	D	LP	P
MAT	71.160	326.17	5.78	34.87	I	D	SP	P
SHK	72.669	321.23	5.69	34.23	I	D	SP	P
TATO	73.781	307.07	5.62	33.74	E	D	LP	P
QZH	75.905	305.46	5.49	32.88	I	D	SP	P
SSE	77.647	311.94	5.35	31.95	I	D	LP	P
MAW	77.742	200.60	5.34	31.88	E	C	LP	P
KGM	77.774	277.64	5.34	31.84	I	D	SP	P
SEO	78.098	320.14	5.30	31.61	E	D	LP	P
GZH	78.920	301.19	5.23	31.14	I	D	SP	P
PPI	79.436	274.14	5.19	30.87	I	D	SP	P
NJ2	79.813	311.51	5.16	30.67	I	D	SP	P
MDJ	81.533	326.71	5.06	30.03	I	D	SP	P
WHN	82.136	308.04	5.03	29.80	I	D	SP	P
DL2	82.163	318.40	5.03	29.79	I	D	SP	P
PRI	82.259	45.18	5.02	29.75	I	D	SP	P
MHC	82.350	43.74	5.02	29.71	I	D	SP	P
SNG	82.367	281.22	5.01	29.71	I	D	LP	P
SNY	82.871	321.63	4.98	29.51	I	D	SP	P
FHC	83.056	39.87	4.97	29.44	I	D	SP	P
CN2	83.132	324.04	4.97	29.40	I	D	SP	P
FRI	83.381	44.95	4.95	29.31	I	D	SP	P
TIA	83.400	314.07	4.95	29.30	I	D	SP	P
JAS	83.476	43.83	4.95	29.26	E	D	LP	P
JAS1	83.476	43.86	4.95	29.26	I	D	SP	P
WDC	83.775	40.73	4.91	29.03	I	D	SP	P
MIN	84.194	41.36	4.87	28.76	I	D	SP	P
MNA	85.218	44.49	4.80	28.34	I	D	SP	P
NNT	85.436	285.75	4.79	28.27	I	D	SP	P
COR	85.833	37.24	4.77	28.15	I	D	SP	P
BJI	86.218	316.77	4.76	28.05	I	D	LP	P
NST	86.401	288.69	4.75	28.01	I	D	SP	P
TIY	87.353	313.21	4.71	27.76	I	D	SP	P
KHT	87.368	287.25	4.71	27.75	I	D	SP	P
XAN	87.879	308.59	4.71	27.75	I	D	SP	P
LON	88.000	36.20	4.71	27.74	E	D	LP	P
BDT	88.051	289.64	4.71	27.74	I	D	SP	P
PGC	88.322	34.02	4.70	27.70	I	D	SP	P
CHG	88.769	291.02	4.69	27.64	I	D	SP	P
CHG	88.769	291.02	4.69	27.64	I	D	LP	P
HHC	89.597	315.50	4.68	27.53	I	D	SP	P
CD2	90.197	303.75	4.67	27.46	I	D	SP	P

Table 156. Station data for event 65 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BTO	90.467	314.67	4.66	27.41	I	D	SP	P
PNT	90.726	35.04	4.65	27.36	I	D	SP	P
ANMO	91.440	52.35	4.63	27.24	E	N	LP	P
COL	91.844	13.49	4.61	27.13	E	N	LP	P
GTA	96.839	309.95	4.48	26.30	I	D	SP	P
RSSD	97.250	45.01	4.48	26.26	E	D	LP	P
SEK	121.511	209.62	1.87	10.65	I	D	SP	PKP
DAG	126.044	5.01	1.86	10.60	I	D	SP	PKP
MSL	140.073	298.99	1.76	10.00	I	D	SP	PKP
BER	142.974	354.84	1.71	9.73	I	D	SP	PKP
KONO	143.216	351.08	1.71	9.71	I	D	SP	PKP
COP	146.462	346.29	1.64	9.31	I	D	LP	PKP
MLR	149.149	321.68	1.57	8.90	I	D	SP	PKP
DMU	149.405	6.96	1.56	8.86	I	D	SP	PKP
SPC	149.498	332.16	1.56	8.85	I	D	SP	PKP
CGN	149.877	319.50	1.54	8.78	I	D	SP	PKP
JOS	149.890	330.96	1.54	8.78	I	D	SP	PKP
DCN	149.907	7.60	1.54	8.77	I	D	SP	PKP
DDK	149.970	6.48	1.54	8.76	I	D	SP	PKP
DLE	150.047	6.76	1.54	8.75	I	D	SP	PKP
DKM	150.108	6.44	1.54	8.74	I	D	SP	PKP
ELL	150.430	303.45	1.53	8.68	I	D	SP	PKP
PVL	150.945	318.46	1.51	8.59	I	D	SP	PKP
GZR	150.960	324.29	1.51	8.59	I	D	SP	PKP
DBN	151.156	352.18	1.50	8.55	E	D	LP	PKP
MOX	151.287	343.27	1.50	8.53	I	D	SP	PKP
BUD	151.323	331.16	1.50	8.52	I	D	SP	PKP
HOF	151.519	342.66	1.49	8.48	I	D	SP	PKP
BNS	151.964	349.06	1.48	8.40	I	D	SP	PKP
KHC	152.064	339.43	1.47	8.38	I	D	SP	PKP
WET	152.272	340.31	1.47	8.34	I	D	SP	PKP
DOU	153.197	352.10	1.43	8.14	E	D	LP	PKP
FUR	153.629	341.42	1.42	8.05	I	D	SP	PKP
STU	153.627	344.82	1.42	8.05	E	D	LP	PKP
SKO	153.870	319.88	1.41	8.00	I	D	SP	PKP
CDF	154.391	347.29	1.39	7.89	I	D	SP	PKP
ATH	154.532	309.96	1.38	7.86	I	D	SP	PKP
ECH	154.602	347.32	1.38	7.84	I	D	SP	PKP
CEY	154.641	334.34	1.38	7.84	I	D	SP	PKP
OGA	154.869	340.45	1.37	7.78	I	D	SP	PKP
FLN	154.880	359.30	1.37	7.78	I	D	SP	PKP
HAU	154.960	348.40	1.37	7.76	I	D	SP	PKP
BSF	155.042	347.61	1.36	7.75	I	D	SP	PKP
LDF	155.044	358.73	1.36	7.75	I	D	SP	PKP
GRR	155.257	359.89	1.36	7.70	I	D	SP	PKP
LPF	155.614	0.18	1.34	7.61	I	D	SP	PKP
LOR	156.068	351.94	1.32	7.51	I	D	SP	PKP
GRC	156.134	353.25	1.32	7.49	I	D	SP	PKP
SSF	156.316	352.44	1.31	7.45	I	D	SP	PKP
LBF	156.331	351.61	1.31	7.44	I	D	SP	PKP

Table 156. Station data for event 65 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AVF	156.601	352.58	1.30	7.38	I	D	SP	PKP
SMF	156.682	351.68	1.30	7.36	I	D	SP	PKP
MFF	157.036	358.61	1.28	7.27	I	D	SP	PKP
TCF	157.217	354.37	1.27	7.23	I	D	SP	PKP
LSF	157.310	355.57	1.27	7.20	I	D	SP	PKP

Table 157. Station data for event 67.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NOU	16.657	307.63	12.68	48.17	I	C	SP	P
PVC	19.072	321.48	12.17	45.65	I	C	SP	P
KOU	19.318	307.07	10.59	38.48	I	C	SP	P
CAN	26.154	256.74	9.38	33.45	I	C	SP	P
WAM	26.187	254.76	9.38	33.45	I	C	SP	P
YOU	26.767	258.94	9.28	33.04	I	C	SP	P
TOO	28.842	251.51	9.04	32.09	I	C	SP	P
CTA	33.269	284.61	8.65	30.55	I	C	SP	P
CTAO	33.269	284.61	8.65	30.55	I	C	LP	P
ADE	34.562	255.35	8.59	30.31	I	C	SP	P
PMG	38.941	299.98	8.32	29.27	I	C	SP	P
RAB	39.310	311.37	8.29	29.15	E	C	LP	P
ASPA	41.898	270.81	8.16	28.65	I	C	SP	P
MOM	44.014	307.97	8.05	28.23	I	C	SP	P
WBN	47.056	263.86	7.88	27.58	I	C	SP	P
NWAO	52.336	251.82	7.46	26.00	I	C	LP	P
KLB	52.357	253.59	7.46	26.00	I	C	SP	P
MUN	53.469	252.58	7.38	25.70	E	C	LP	P
MEK	53.530	259.69	7.38	25.70	I	C	SP	P
MRWA	54.623	255.67	7.30	25.40	I	D	SP	P
SPA	56.849	180.00	7.11	24.69	I	C	SP	P
NAU	57.736	262.76	7.07	24.55	I	C	SP	P
GUMO	57.800	317.80	7.03	24.40	I	C	LP	P
HON	58.034	23.59	7.03	24.40	E	C	LP	P
DAV	65.871	296.93	6.39	22.05	E	C	LP	P
TRT	67.445	275.69	6.26	21.58	I	C	SP	P
PLP	69.007	299.78	6.14	21.15	I	C	SP	P
MAW	69.171	201.27	6.14	21.15	I	C	LP	P
MAJO	80.006	326.51	5.36	18.36	I	C	LP	P
TATO	80.791	307.87	5.26	18.00	I	C	LP	P
LNV	84.864	127.44	4.99	17.05	I	C	SP	P
TACH	85.360	127.44	4.96	16.94	I	D	SP	P
PCH	85.661	127.63	4.96	16.94	I	D	SP	P
PEL	85.836	127.16	4.90	16.73	I	C	SP	P
BACH	85.838	127.42	4.90	16.73	I	C	SP	P
SEO	86.436	320.10	4.86	16.59	E	C	LP	P
PRI	88.218	43.79	4.77	16.28	I	C	SP	P
MHC	88.501	42.38	4.75	16.21	I	C	SP	P
PCT	89.214	288.04	4.73	16.14	I	D	SP	P
FRI	89.362	43.71	4.71	16.07	I	C	SP	P
JAS1	89.602	42.65	4.71	16.07	I	C	SP	P
FHC	89.698	38.66	4.71	16.07	I	C	SP	P
WDC	90.303	39.61	4.70	16.03	I	C	SP	P
MNA	91.244	43.51	4.70	16.03	I	C	SP	P
SNY	91.320	321.14	4.68	15.96	I	C	SP	P
CN2	91.781	323.50	4.67	15.93	I	C	SP	P
COR	92.776	36.41	4.64	15.82	I	C	SP	P
CHG	93.482	290.11	4.63	15.79	E	C	LP	P
LON	95.053	35.63	4.58	15.61	E	C	LP	P
ANMO	96.290	52.18	4.54	15.47	E	C	LP	P

Table 157. Station data for event 67 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VIR	114.058	205.31	1.88	6.36	I	C	SP	PKP
EVA	114.648	208.00	1.88	6.35	I	D	SP	PKP
BFS	115.161	205.77	1.88	6.35	I	D	SP	PKP
BPI	115.351	207.22	1.88	6.35	I	D	SP	PKP
SJG	118.865	86.49	1.88	6.33	E	C	LP	PKP
BUL	120.504	210.76	1.87	6.32	I	C	SP	PKP
TET	121.615	217.85	1.87	6.31	I	D	SP	PKP
MTD	122.075	215.54	1.87	6.31	I	C	SP	PKP
KRI	122.967	213.57	1.87	6.31	I	C	SP	PKP
MHI	132.232	290.97	1.84	6.21	I	C	LP	PKP
REY	146.160	17.58	1.66	5.61	I	C	SP	PKP
BNG	146.754	214.00	1.64	5.53	I	C	SP	PKP
BER	152.759	354.92	1.40	4.93	I	D	SP	PKP
MUD	156.134	348.26	1.35	4.54	I	C	SP	PKP
COP	156.189	343.34	1.35	4.54	E	C	LP	PKP
KRA	158.039	325.27	1.26	4.25	I	C	SP	PKP
SPC	158.462	323.15	1.26	4.25	I	C	SP	PKP
JOS	158.749	321.34	1.22	4.09	I	C	SP	PKP
BRG	159.938	334.84	1.17	3.94	I	C	SP	PKP
BUD	160.176	320.89	1.17	3.94	I	C	SP	PKP
WTS	160.817	348.33	1.12	3.77	I	C	SP	PKP
MOX	160.910	338.24	1.12	3.77	I	C	SP	PKP
DBN	160.955	351.40	1.12	3.77	E	C	LP	PKP
HOF	161.116	337.29	1.12	3.77	I	C	SP	PKP
SKO	161.442	303.69	1.12	3.77	I	C	SP	PKP
KHC	161.501	332.38	1.07	3.60	I	C	SP	PKP
WET	161.755	333.60	1.07	3.60	I	C	SP	PKP
GRF	161.867	337.47	1.07	3.60	I	C	SP	PKP
KBA	163.219	328.63	1.02	3.43	I	C	SP	PKP
TRI	164.049	324.62	0.96	3.25	I	C	SP	PKP
CDF	164.132	343.65	0.96	3.25	I	C	SP	PKP
OGA	164.340	332.73	0.96	3.25	I	C	SP	PKP
SLE	164.409	339.94	0.96	3.25	E	C	LP	PKP
SAX	164.609	337.14	0.91	3.06	E	C	LP	PKP
HAU	164.724	345.32	0.91	3.06	I	C	SP	PKP
BSF	164.789	344.03	0.91	3.06	I	C	SP	PKP
OSS	164.821	334.27	0.91	3.06	E	C	LP	PKP
LLS	165.058	337.25	0.91	3.06	E	C	LP	PKP
VDL	165.233	335.41	0.91	3.06	E	C	LP	PKP
TMA	165.768	336.09	0.85	2.88	E	C	LP	PKP
GRC	165.931	353.17	0.85	2.88	I	C	SP	PKP
MMK	166.111	338.29	0.85	2.88	E	C	LP	PKP
DIX	166.251	339.80	0.85	2.88	E	C	LP	PKP
AVF	166.400	352.05	0.85	2.88	I	C	SP	PKP
SMF	166.481	350.53	0.85	2.88	I	C	SP	PKP
MFF	166.732	2.36	0.80	2.68	I	C	SP	PKP
MZF	167.047	353.97	0.80	2.68	I	C	SP	PKP
CVF	168.729	327.25	0.68	2.29	I	C	SP	PKP
LRG	168.946	337.76	0.68	2.29	I	C	SP	PKP
LMR	169.007	336.97	0.68	2.29	I	C	SP	PKP

Table 157. Station data for event 67 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PTO	169.282	40.72	0.68	2.29	I	C	SP	PKP
EPF	170.314	1.31	0.62	2.09	I	C	SP	PKP

Table 158. Station data for event 72.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NDF	14.838	344.07	12.99	40.67	I	D	SP	P
NOU	16.705	302.19	12.72	39.66	I	C	SP	P
PVC	18.759	316.75	12.21	37.78	I	C	SP	P
KOU	19.370	302.35	12.10	37.38	I	C	SP	P
CAN	27.294	254.36	9.25	27.65	I	C	SP	P
YOU	27.872	256.53	9.20	27.49	I	C	SP	P
TAU	29.102	238.50	9.05	27.00	E	C	LP	P
CTA	33.852	282.03	8.63	25.66	I	C	SP	P
CTAO	33.852	282.03	8.63	25.66	I	C	LP	P
ADE	35.720	253.52	8.53	25.34	I	C	SP	P
PMG	39.144	297.63	8.33	24.70	I	C	LP	P
RAB	39.223	309.02	8.33	24.70	E	C	LP	P
NWAO	53.543	250.64	7.38	21.73	I	C	LP	P
MUN	54.664	251.40	7.30	21.48	E	C	LP	P
HON	56.612	22.81	7.15	21.02	E	D	LP	P
GUA	57.473	316.33	7.08	20.81	I	C	LP	P
GUMO	57.539	316.33	7.08	20.81	I	C	LP	P
DAV	66.136	295.73	6.40	18.73	I	C	LP	P
BAG	75.832	299.93	5.65	16.47	I	C	LP	P
MAJO	79.522	325.70	5.42	15.78	I	C	LP	P
MAT	79.522	325.70	5.42	15.78	I	C	SP	P
SHK	80.757	320.85	5.27	15.33	I	C	LP	P
TATO	80.773	307.08	5.27	15.33	I	C	LP	P
ANP	80.892	307.25	5.27	15.33	I	C	LP	P
PEL	85.840	126.71	4.91	14.26	I	C	SP	P
SEO	86.107	319.45	4.91	14.26	I	C	LP	P
FRI	87.909	43.16	4.78	13.88	I	D	SP	P
JAS	88.149	42.07	4.78	13.88	E	N	LP	P
WDC	88.842	39.05	4.73	13.73	I	D	SP	P
MNA	89.790	42.95	4.71	13.67	I	D	SP	P
LPA	92.923	134.77	4.65	13.49	E	C	LP	P
LON	93.590	35.08	4.63	13.43	E	N	LP	P
CHG	93.908	289.64	4.62	13.40	I	C	LP	P
ANMO	94.878	51.59	4.58	13.28	E	D	LP	P
JCT	96.977	58.47	4.53	13.14	I	C	LP	P
COL	99.630	12.70	4.47	12.96	E	C	LP	P
SHA	105.737	63.51	1.89	5.44	E	C	LP	PKP
BUL	121.957	210.11	1.87	5.39	I	C	SP	PKP
TAB	143.275	291.93	1.72	4.96	E	C	LP	PKP
MAL	173.211	46.15	0.44	1.26	I	C	SP	PKP

Table 159. Station data for event 76.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NOU	16.488	278.63	12.70	48.15	I	C	SP	P
PVC	16.715	295.71	12.70	48.15	I	C	SP	P
HNR	28.126	301.13	9.19	32.61	E	C	LP	P
RIV	29.558	246.55	8.98	31.78	I	C	SP	P
YOU	31.898	246.16	8.75	30.88	I	C	SP	P
TAU	34.463	231.01	8.59	30.25	E	C	LP	P
TOO	34.630	240.73	8.59	30.25	I	C	SP	P
CTA	35.219	271.41	8.56	30.13	I	C	SP	P
CTAO	35.219	271.41	8.56	30.13	I	C	LP	P
LMG	38.039	289.75	8.38	29.44	I	C	SP	P
PMG	38.636	288.26	8.35	29.32	I	C	SP	P
ADE	39.898	245.70	8.27	29.01	I	C	SP	P
LAT	40.187	291.82	8.27	29.01	I	C	SP	P
ISQ	41.083	267.60	8.21	28.78	I	C	SP	P
ASPA	45.407	261.51	7.97	27.87	I	C	SP	P
WB2	45.981	266.66	7.94	27.75	I	C	SP	P
GUA	54.651	311.13	7.30	25.35	E	C	LP	P
KLB	57.673	247.66	7.07	24.50	I	C	SP	P
NWAO	57.830	246.01	7.04	24.39	I	C	LP	P
BAL	58.773	248.55	6.96	24.09	I	C	SP	P
MUN	58.879	246.88	6.96	24.09	E	C	LP	P
MRWA	59.706	249.94	6.92	23.94	I	C	SP	P
SPA	64.306	180.00	6.52	22.48	I	D	SP	P
DAV	65.546	291.60	6.44	22.19	I	C	LP	P
BAG	74.688	297.05	5.75	19.71	I	C	LP	P
MAJO	75.626	323.35	5.68	19.46	E	N	LP	P
MAT	75.626	323.35	5.68	19.46	I	D	SP	P
MAW	77.205	199.64	5.58	19.10	I	D	SP	P
SHK	77.325	318.59	5.55	19.00	I	C	LP	P
OHC	78.701	156.03	5.49	18.78	I	D	SP	P
AAS	79.177	154.90	5.45	18.64	E	C	LP	P
MHC	80.933	40.94	5.26	17.97	I	D	SP	P
BKS	80.945	40.21	5.26	17.97	I	D	SP	P
JAS	82.047	41.12	5.18	17.69	I	D	LP	P
JAS1	82.045	41.15	5.18	17.69	I	D	SP	P
WDC	82.611	38.05	5.14	17.55	I	D	SP	P
COR	84.965	34.75	4.99	17.02	I	D	SP	P
LNV	86.935	126.30	4.83	16.46	I	D	SP	P
LON	87.215	33.90	4.83	16.46	I	D	LP	P
SNG	87.257	279.26	4.80	16.35	I	C	LP	P
PHC	87.407	28.46	4.80	16.35	I	D	SP	P
PEL	87.860	125.89	4.77	16.25	I	D	LP	P
BACH	87.898	126.15	4.77	16.25	I	D	SP	P
FCH	88.057	126.21	4.77	16.25	I	D	SP	P
MOT	88.792	55.00	4.73	16.11	I	D	SP	P
TLL	89.234	123.26	4.73	16.11	I	D	LP	P
ANMO	89.277	50.30	4.71	16.04	I	D	LP	P
ALQ	89.274	50.30	4.71	16.04	I	D	LP	P
PNT	90.031	32.99	4.71	16.04	I	D	SP	P
ZON	90.128	125.36	4.71	16.04	I	D	SP	P

Table 159. Station data for event 76 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NNT	90.421	283.70	4.70	16.00	I	C	SP	P
NEW	90.602	34.86	4.70	16.00	I	D	SP	P
LHD	91.410	35.52	4.68	15.93	I	D	LP	P
CLX	91.602	35.74	4.68	15.93	I	D	LP	P
LRM	91.622	38.75	4.68	15.93	I	D	SP	P
LDM	91.658	35.47	4.68	15.93	I	D	LP	P
BUT	91.672	38.55	4.68	15.93	I	D	SP	P
YKM	91.706	34.99	4.68	15.93	I	D	LP	P
JCT	91.835	56.98	4.67	15.90	I	D	LP	P
JCT	91.835	56.98	4.67	15.90	I	D	SP	P
RXF	92.012	35.22	4.67	15.90	I	D	LP	P
COL	93.043	11.62	4.65	15.83	I	D	LP	P
KMI	93.449	296.13	4.63	15.76	I	D	SP	P
CHG	93.826	288.92	4.61	15.69	I	C	LP	P
CHTO	93.826	288.92	4.61	15.69	I	C	LP	P
QZO	94.322	53.31	4.60	15.65	I	D	SP	P
SES	95.057	35.57	4.58	15.58	I	D	SP	P
EDM	95.549	32.43	4.56	15.51	I	D	SP	P
RSSD	95.672	43.46	4.56	15.51	I	D	LP	P
SIO	96.883	53.70	4.53	15.41	I	D	SP	P
TUL	97.331	53.75	4.52	15.37	I	D	LP	P
LZH	97.501	306.37	4.52	15.37	I	D	SP	P
LPB	98.153	112.70	4.51	15.34	E	D	LP	P
UPA	99.562	84.64	4.47	15.20	E	D	LP	P
SHA	100.950	61.25	4.45	15.13	I	D	LP	P
BLA	109.262	57.34	1.89	6.36	E	D	LP	Pd
GRM	117.405	201.15	1.88	6.32	I	D	SP	PKP
SUR	119.948	196.32	1.87	6.31	I	D	SP	PKP
BLF	121.389	202.69	1.87	6.30	I	D	SP	PKP
SEK	121.586	204.41	1.87	6.30	I	D	SP	PKP
VIR	122.086	203.81	1.87	6.30	I	D	SP	PKP
QUE	124.946	289.94	1.87	6.28	I	D	LP	PKP
CIR	126.323	212.36	1.86	6.28	I	D	SP	PKP
DAG	127.820	6.50	1.86	6.26	I	D	SP	PKP
MTD	129.894	215.20	1.85	6.23	I	D	SP	PKP
KRI	130.848	213.06	1.85	6.22	I	D	SP	PKP
MHI	131.979	296.54	1.84	6.20	I	D	LP	PKP
KEV	134.059	349.13	1.83	6.16	E	D	LP	PKP
UPP	144.734	348.19	1.68	5.67	I	D	SP	PKP
BER	145.467	358.92	1.68	5.67	I	D	SP	PKP
MUD	149.196	354.49	1.59	5.35	I	D	SP	PKP
COP	149.578	350.66	1.56	5.25	E	D	LP	PKP
ECK	150.223	8.34	1.56	5.25	I	D	SP	PKP
DCN	151.251	14.22	1.53	5.15	I	D	SP	PKP
HAM	152.075	352.54	1.50	5.04	I	D	SP	PKP
JER	152.168	289.51	1.50	5.04	I	D	SP	PKP
BRN	152.586	347.83	1.46	4.92	I	D	SP	PKP
KRA	152.907	337.26	1.46	4.92	I	D	SP	PKP
KSP	153.345	342.62	1.46	4.92	I	D	SP	PKP
SPC	153.522	335.83	1.43	4.80	I	D	SP	PKP

Table 159. Station data for event 76 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PSN	153.536	318.34	1.43	4.80	I	D	SP	PKP
DBN	153.771	358.48	1.43	4.80	I	D	LP	PKP
BRG	153.894	345.73	1.43	4.80	I	D	SP	PKP
JOS	153.979	334.57	1.43	4.80	I	D	SP	PKP
MOX	154.574	348.80	1.39	4.67	I	D	SP	PKP
PRU	154.580	344.17	1.39	4.67	I	D	SP	PKP
BNG	154.596	215.47	1.39	4.67	I	D	SP	PKP
PSZ	154.699	334.61	1.39	4.67	I	D	SP	PKP
BNS	154.812	355.41	1.39	4.67	I	D	SP	PKP
STB	155.202	355.82	1.39	4.67	I	D	SP	PKP
BUD	155.392	335.18	1.39	4.67	I	D	SP	PKP
ZST	155.462	338.73	1.39	4.67	I	D	SP	PKP
BGG	155.554	354.95	1.35	4.53	I	D	SP	PKP
GRF	155.562	348.76	1.35	4.53	I	D	SP	PKP
KHC	155.610	344.80	1.35	4.53	I	D	SP	PKP
PVL	155.622	320.36	1.35	4.53	I	D	SP	PKP
VKA	155.651	339.92	1.35	4.53	I	D	SP	PKP
VIE	155.653	339.84	1.35	4.53	I	D	LP	PKP
WET	155.756	345.85	1.35	4.53	I	D	SP	PKP
DOU	155.790	359.21	1.35	4.53	E	D	LP	PKP
TIM	155.868	329.69	1.35	4.53	I	D	SP	PKP
SOP	156.088	338.90	1.35	4.53	I	D	SP	PKP
KDZ	156.417	317.20	1.35	4.53	I	D	SP	PKP
STU	156.772	351.41	1.30	4.39	I	D	LP	PKP
FUR	157.019	347.61	1.30	4.39	I	D	SP	PKP
GRR	157.169	8.52	1.30	4.39	I	D	SP	PKP
MMB	157.424	318.95	1.30	4.39	I	D	SP	PKP
KBA	157.576	343.25	1.26	4.24	I	D	SP	PKP
HAU	157.814	355.98	1.26	4.24	I	D	SP	PKP
BSF	157.956	355.14	1.26	4.24	I	D	SP	PKP
LJU	158.184	340.14	1.26	4.24	I	D	SP	PKP
OGA	158.311	347.04	1.26	4.24	I	D	SP	PKP
GRC	158.581	1.89	1.22	4.09	I	D	SP	PKP
LOR	158.622	0.43	1.22	4.09	I	D	SP	PKP
TRI	158.717	341.07	1.22	4.09	I	D	SP	PKP
SSF	158.825	1.10	1.22	4.09	I	D	SP	PKP
LBF	158.907	0.21	1.22	4.09	I	D	SP	PKP
MFF	159.016	8.17	1.22	4.09	I	D	SP	PKP
AVF	159.093	1.42	1.22	4.09	I	D	SP	PKP
SMF	159.245	0.48	1.22	4.09	I	D	SP	PKP
ATH	159.464	310.82	1.22	4.09	I	D	SP	PKP
LSF	159.539	5.09	1.17	3.93	I	D	SP	PKP
TCF	159.549	3.73	1.17	3.93	I	D	SP	PKP
MZF	159.641	3.01	1.17	3.93	I	D	SP	PKP
RJF	160.477	5.44	1.17	3.93	I	D	SP	PKP
LFF	160.761	7.23	1.12	3.76	I	D	SP	PKP
CAF	160.896	4.40	1.12	3.76	I	D	SP	PKP
LPO	161.063	6.39	1.12	3.76	I	D	SP	PKP
PTO	161.471	31.48	1.12	3.76	I	D	SP	PKP
CDR	162.164	356.02	1.07	3.59	I	D	SP	PKP

Table 159. Station data for event 76 ... continued.

Station	Distance (°)	Azimuth (°)	$dt/d\Delta$ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
FRF	162.208	353.90	1.07	3.59	1	D	SP	PKP
LRG	162.339	354.54	1.07	3.59	1	D	SP	PKP
LMR	162.446	354.14	1.07	3.59	1	D	SP	PKP
LGR	162.569	16.48	1.02	3.42	1	D	SP	PKP
EPF	162.588	9.22	1.02	3.42	1	D	SP	PKP
CVF	162.867	347.94	1.02	3.42	1	D	SP	PKP
TOL	164.439	23.96	0.96	3.24	1	D	SP	PKP
CRT	166.939	28.21	0.80	2.68	1	D	SP	PKP

Table 160. Station data for event 79.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CTA	29.772	257.07	8.92	26.58	I	D	LP	P
CTAO	29.772	257.07	8.92	26.58	I	D	LP	P
GUMO	43.310	310.61	8.08	23.91	I	C	LP	P
DAV	55.976	290.06	7.19	21.14	E	C	LP	P
NWAO	56.574	240.79	7.15	21.02	E	D	LP	P
MAJO	63.752	325.56	6.56	19.22	E	C	LP	P
BAG	64.404	297.24	6.52	19.09	I	C	LP	P
TATO	67.768	305.85	6.23	18.21	E	C	LP	P
SPA	74.332	180.00	5.75	16.77	I	C	SP	P
IPM	78.041	278.26	5.52	16.08	I	D	SP	P
SNG	79.197	280.65	5.45	15.87	E	C	LP	P
PSI	79.509	275.81	5.42	15.78	I	C	SP	P
CHG	84.354	291.24	5.03	14.62	E	C	LP	P
UPA	105.036	84.75	1.89	5.44	E	C	LP	Pdf
KMR	144.926	340.17	1.68	4.85	I	C	LP	PKP
VTS	145.224	325.49	1.68	4.85	I	C	SP	PKP
MMB	145.598	323.69	1.66	4.79	I	C	SP	PKP
STU	145.663	345.94	1.66	4.79	I	D	SP	PKP
GWF	145.813	347.81	1.66	4.79	I	D	SP	PKP
GRC	148.199	352.46	1.62	4.65	I	C	SP	PKP

Table 161. Station data for event 80.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	17.379	261.27	12.18	63.91	I	C	SP	P
NOU	19.867	248.10	10.22	48.88	I	C	SP	P
KOU	21.479	254.12	9.88	46.75	I	C	SP	P
RAB	35.538	285.38	8.49	38.74	E	C	LP	P
CTAO	38.314	257.58	8.32	37.83	I	C	LP	P
CTAO	38.314	257.58	8.32	37.83	I	C	SP	P
CAN	38.566	232.75	8.31	37.76	I	C	SP	P
YOU	38.696	234.59	8.30	37.73	I	C	SP	P
PMG	38.740	274.71	8.30	37.72	I	C	LP	P
TOO	41.995	230.99	8.12	36.77	I	C	LP	P
TAU	42.821	222.91	8.08	36.56	I	C	LP	P
STK	43.610	240.30	8.03	36.32	I	C	SP	P
WB2	49.500	257.16	7.65	34.33	I	C	SP	P
ASPA	49.750	252.27	7.63	34.23	I	C	LP	P
GUMO	50.385	303.25	7.58	33.97	E	C	LP	P
WBN	56.329	248.96	7.12	31.67	I	C	SP	P
DRV	59.086	199.63	6.91	30.64	I	C	SP	P
SBA	62.776	184.58	6.62	29.20	I	C	SP	P
NWAO	64.192	240.80	6.50	28.65	E	C	LP	P
DAV	64.344	286.07	6.49	28.60	I	C	LP	P
MKS	66.373	271.20	6.32	27.78	I	C	SP	P
MAT	69.132	320.06	6.10	26.72	I	C	SP	P
MAJO	69.132	320.06	6.10	26.72	I	C	LP	P
SHK	71.492	315.45	5.93	25.92	I	C	SP	P
SHK	71.492	315.45	5.93	25.92	I	C	LP	P
PRI	71.961	42.82	5.89	25.75	I	D	SP	P
BAG	72.377	293.31	5.87	25.63	I	C	LP	P
JAS1	73.172	41.44	5.81	25.36	I	D	SP	P
WDC	73.478	38.20	5.79	25.27	I	D	SP	P
LAC	73.850	46.38	5.76	25.13	I	D	SP	P
TATO	75.110	301.76	5.68	24.77	E	C	LP	P
ANP	75.176	301.97	5.68	24.74	I	C	LP	P
SEO	77.021	315.42	5.56	24.19	I	C	LP	P
PHC	77.646	28.03	5.52	24.01	I	D	SP	P
LON	77.769	33.59	5.51	23.96	I	D	LP	P
SSE	78.043	307.27	5.49	23.86	I	C	SP	P
PNT	80.521	32.48	5.27	22.85	I	D	SP	P
ANMO	81.272	50.01	5.21	22.58	E	D	LP	P
LHD	82.064	34.94	5.15	22.29	I	D	LP	P
CLX	82.272	35.15	5.13	22.24	I	D	LP	P
LDM	82.308	34.87	5.13	22.23	I	D	LP	P
YKM	82.323	34.38	5.13	22.23	I	D	LP	P
RXF	82.645	34.60	5.11	22.14	I	D	LP	P
COL	82.883	10.80	5.10	22.07	I	D	LP	P
FBA	82.883	10.80	5.10	22.07	I	D	SP	P
FBAS	82.933	11.21	5.09	22.06	I	D	SP	P
IMA	83.042	8.07	5.09	22.03	I	D	SP	P
BJI	85.611	313.58	4.92	21.26	E	C	LP	P
SES	85.707	34.74	4.91	21.22	I	D	SP	P
EDM	85.994	31.58	4.88	21.09	I	D	SP	P

Table 161. Station data for event 80 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
OHC	86.923	155.98	4.81	20.79	I	D	SP	P
RSSD	86.951	42.54	4.81	20.78	I	D	LP	P
MAW	87.289	198.66	4.79	20.69	I	C	LP	P
SNG	87.866	278.02	4.76	20.57	I	C	LP	P
RSNT	90.603	23.48	4.70	20.27	I	D	LP	P
KMI	91.011	295.71	4.69	20.23	I	C	LP	P
PEL	91.909	125.10	4.66	20.11	I	C	SP	P
BACH	91.989	125.36	4.66	20.09	I	C	SP	P
BDT	92.151	287.20	4.66	20.08	I	C	SP	P
BSI	92.499	274.97	4.65	20.05	I	C	SP	P
CHTO	92.630	288.69	4.65	20.04	I	C	LP	P
CHG	92.630	288.69	4.65	20.04	I	C	LP	P
CHG	92.630	288.69	4.65	20.04	I	C	SP	P
LZH	93.304	306.44	4.63	19.95	I	C	SP	P
RSON	95.939	38.86	4.54	19.56	I	D	LP	P
UPA	96.329	82.48	4.53	19.53	I	D	LP	P
LPB	99.823	110.31	4.45	19.14	I	D	SP	P
LPA	100.865	131.06	4.44	19.11	E	D	LP	Pdf
BLA	101.928	54.56	4.44	19.11	E	D	LP	Pdf
NDI	114.011	294.67	1.88	7.98	I	C	SP	Pdf
POO	115.806	283.19	1.88	7.96	I	C	SP	PKP
AVY	126.597	231.20	1.86	7.89	I	C	SP	PKP
MHI	128.790	303.98	1.86	7.86	E	C	LP	PKP
SUR	130.083	196.03	1.85	7.84	I	C	SP	PKP
SEK	131.497	205.28	1.84	7.81	I	C	SP	PKP
NAT	133.468	114.38	1.83	7.76	I	C	SP	PKP
OBN	134.387	336.14	1.83	7.73	I	C	SP	PKP
COP	139.984	354.65	1.77	7.49	I	C	LP	PKP
COP	139.984	354.65	1.77	7.49	I	C	SP	PKP
DMU	140.651	12.37	1.76	7.44	I	C	SP	PKP
DCN	141.094	13.01	1.75	7.42	I	C	SP	PKP
ECB	142.116	13.12	1.74	7.35	I	C	SP	PKP
ECP	142.380	12.84	1.73	7.33	I	C	SP	PKP
KRA	144.160	345.02	1.70	7.20	I	C	SP	PKP
ARO	144.318	267.75	1.70	7.18	I	C	LP	PKP
MOX	145.046	354.15	1.68	7.12	E	C	LP	PKP
UCC	145.115	2.22	1.68	7.11	I	C	SP	PKP
HOF	145.348	353.77	1.67	7.09	I	C	SP	PKP
JOS	145.434	343.30	1.67	7.09	I	C	SP	PKP
CFR	145.487	332.39	1.67	7.08	I	C	SP	PKP
VRI	145.559	334.53	1.67	7.07	I	C	SP	PKP
DOU	145.825	2.02	1.66	7.05	E	C	LP	PKP
WET	146.381	352.26	1.65	7.00	I	C	SP	PKP
CMP	146.734	335.64	1.64	6.96	I	C	SP	PKP
COZ	146.963	336.45	1.64	6.94	I	C	SP	PKP
STU	147.098	356.54	1.64	6.93	I	C	LP	PKP
KMR	147.262	350.34	1.63	6.91	I	D	LP	PKP
IST	148.160	326.50	1.61	6.81	I	C	LP	PKP
DMK	148.233	328.80	1.61	6.80	I	C	SP	PKP
PVL	148.411	333.21	1.60	6.78	I	C	SP	PKP

Table 161. Station data for event 80 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SSF	148.802	3.76	1.59	6.74	I	C	SP	PKP
MFF	148.875	8.69	1.59	6.73	I	C	SP	PKP
LBF	148.906	3.16	1.59	6.73	I	C	SP	PKP
LSF	149.436	6.60	1.57	6.66	I	C	SP	PKP
TCF	149.468	5.67	1.57	6.66	I	C	SP	PKP
VTS	149.690	334.92	1.57	6.63	I	C	SP	PKP
CAF	150.802	6.26	1.53	6.49	I	C	SP	PKP
SKO	150.918	336.47	1.53	6.47	I	C	SP	PKP
EPF	152.437	9.56	1.48	6.26	I	C	SP	PKP
ATH	153.174	328.50	1.45	6.15	I	C	SP	PKP
CVF	153.299	355.87	1.45	6.13	I	C	SP	PKP
LIS	153.467	27.92	1.44	6.10	I	C	SP	PKP
RMP	153.569	349.30	1.44	6.09	I	C	SP	PKP
GUD	153.674	18.24	1.43	6.07	I	C	SP	PKP
TOL	154.403	18.77	1.41	5.96	I	C	SP	PKP
CRT	156.996	20.69	1.30	5.51	I	C	SP	PKP
MAL	157.120	22.71	1.30	5.49	I	C	SP	PKP
BNG	163.497	227.82	0.99	4.18	I	C	SP	PKP

Table 162. Station data for event 81.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RAR	14.445	113.64	12.72	69.13	I	D	SP	P
PVC	17.082	261.30	12.26	64.18	I	C	SP	P
NOU	19.582	247.95	10.32	49.26	I	C	SP	P
KOU	21.187	254.07	9.94	46.88	I	C	SP	P
COO	34.468	238.83	8.55	38.91	I	C	SP	P
RMQ	36.220	246.79	8.45	38.34	I	C	SP	P
CTAO	38.019	257.62	8.34	37.77	I	C	LP	P
CTA	38.019	257.62	8.34	37.77	I	C	LP	P
CAN	38.315	232.64	8.32	37.67	I	C	SP	P
PMG	38.448	274.86	8.31	37.63	I	C	SP	P
WAM	38.717	231.39	8.30	37.56	I	C	SP	P
CMS	39.726	239.68	8.25	37.28	I	C	SP	P
MOM	40.474	285.94	8.20	37.04	I	C	SP	P
TOO	41.748	230.89	8.14	36.69	I	C	SP	P
TAU	42.600	222.78	8.10	36.48	E	C	LP	P
STK	43.339	240.25	8.05	36.24	I	C	SP	P
BFD	43.849	232.54	8.02	36.07	I	C	SP	P
ADE	46.311	236.65	7.88	35.37	I	C	SP	P
ASPA	49.460	252.30	7.66	34.20	I	C	SP	P
DRV	58.961	199.56	6.92	30.56	I	C	SP	P
KLK	60.406	243.39	6.81	30.00	I	C	SP	P
MBL	62.624	254.13	6.63	29.14	I	C	SP	P
KLB	63.540	242.33	6.56	28.79	I	C	SP	P
NWAO	63.921	240.82	6.53	28.64	I	C	SP	P
NWAO	63.921	240.82	6.53	28.64	I	C	LP	P
DAV	64.068	286.20	6.52	28.59	I	C	LP	P
RKG	64.060	239.55	6.52	28.59	I	C	SP	P
BAL	64.502	243.36	6.48	28.42	I	C	SP	P
MUN	64.838	241.82	6.45	28.29	I	C	SP	P
MRWA	65.225	244.83	6.42	28.14	I	C	SP	P
MKS	66.079	271.30	6.36	27.82	I	C	SP	P
MAT	68.965	320.23	6.11	26.68	I	C	SP	P
MAJO	68.965	320.23	6.11	26.68	I	C	LP	P
SHK	71.305	315.61	5.94	25.88	E	C	LP	P
TRT	72.034	266.92	5.89	25.62	I	C	SP	P
BAG	72.117	293.44	5.88	25.59	E	C	LP	P
JAS1	73.388	41.58	5.80	25.20	I	D	SP	P
TATO	74.874	301.89	5.70	24.74	I	C	LP	P
ANMO	81.516	50.12	5.19	22.40	E	D	LP	P
COL	82.966	10.92	5.09	21.96	E	C	LP	P
FBAS	83.018	11.33	5.09	21.95	I	C	SP	P
MAW	87.168	198.73	4.80	20.64	I	C	SP	P
RSSD	87.171	42.63	4.80	20.64	E	D	LP	P
SNG	87.577	278.11	4.78	20.54	I	C	LP	P
NST	90.402	286.08	4.70	20.19	I	C	SP	P
KMI	90.757	295.79	4.69	20.17	I	C	LP	P
CHTO	92.359	288.77	4.65	19.98	I	C	LP	P
RSON	96.147	38.93	4.54	19.46	E	D	LP	P
MHI	128.560	303.91	1.86	7.83	I	C	SP	PKP
OBN	134.293	335.95	1.83	7.70	I	C	SP	PKP

Table 162. Station data for event 81 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DMU	140.741	12.11	1.76	7.41	I	C	SP	PKP
DCN	141.187	12.74	1.75	7.38	I	C	SP	PKP
ARO	144.021	267.81	1.70	7.18	I	C	LP	PKP
KRA	144.110	344.69	1.70	7.17	I	C	SP	PKP
KSP	144.172	348.89	1.70	7.17	I	C	SP	PKP
CLL	144.230	352.53	1.70	7.16	I	C	SP	PKP
BRG	144.529	351.37	1.69	7.14	I	C	SP	PKP
BNS	145.002	358.76	1.68	7.09	I	C	SP	PKP
MOX	145.042	353.81	1.68	7.09	I	C	SP	PKP
UCC	145.153	1.88	1.68	7.08	I	C	SP	PKP
ENN	145.211	0.14	1.68	7.08	I	C	SP	PKP
HOF	145.342	353.43	1.68	7.06	I	C	SP	PKP
MEM	145.369	0.05	1.67	7.06	I	C	SP	PKP
JOS	145.375	342.97	1.67	7.06	I	C	SP	PKP
CFR	145.374	332.07	1.67	7.06	I	C	SP	PKP
VRI	145.456	334.21	1.67	7.05	I	C	SP	PKP
BGG	145.757	358.53	1.67	7.03	I	C	SP	PKP
DOU	145.863	1.67	1.66	7.02	I	C	SP	PKP
TLB	145.887	331.51	1.66	7.02	I	C	SP	PKP
PSZ	146.079	343.23	1.66	7.00	I	C	SP	PKP
KHC	146.282	351.08	1.65	6.98	I	C	SP	PKP
WET	146.368	351.89	1.65	6.97	I	C	SP	PKP
PSN	146.505	330.31	1.65	6.96	I	C	SP	PKP
KMR	147.239	349.96	1.63	6.88	I	C	LP	PKP
GZR	147.397	337.89	1.63	6.87	I	C	SP	PKP
FUR	147.528	353.48	1.63	6.85	I	D	SP	PKP
JMB	148.191	330.50	1.61	6.78	I	C	SP	PKP
PVL	148.302	332.85	1.61	6.77	I	C	SP	PKP
OGA	148.837	353.40	1.59	6.71	I	C	SP	PKP
BCK	149.468	319.42	1.57	6.63	I	C	SP	PKP
VTS	149.589	334.52	1.57	6.62	I	D	SP	PKP
SKO	150.824	336.05	1.53	6.46	I	D	SP	PKP
LGR	152.523	13.80	1.48	6.22	I	C	SP	PKP
BNG	163.258	228.50	1.00	4.21	I	C	SP	PKP

Table 1' . Station data for event 86.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RAR	14.116	109.06	12.70	70.48	I	D	SP	P
PVC	16.820	265.24	12.22	65.09	I	C	SP	P
NOU	19.044	251.11	10.39	50.48	I	C	SP	P
KOU	20.767	257.09	9.99	47.85	I	C	SP	P
WEL	25.937	199.47	9.30	43.67	E	C	LP	P
HNR	26.386	283.48	9.26	43.41	I	C	LP	P
BGA	31.967	286.24	8.70	40.19	I	C	SP	P
RAB	35.489	287.34	8.48	39.03	E	C	LP	P
RMQ	35.644	248.31	8.47	38.98	I	C	SP	P
CAN	37.491	233.83	8.36	38.37	I	C	SP	P
YOU	37.646	235.71	8.35	38.32	I	C	SP	P
CTAO	37.656	259.15	8.35	38.32	I	C	LP	P
CTA	37.656	259.15	8.35	38.32	I	C	SP	P
CTAO	37.656	259.15	8.35	38.32	I	C	SP	P
WAM	37.873	232.54	8.34	38.25	I	C	SP	P
PMG	38.447	276.43	8.31	38.06	I	C	SP	P
TAU	41.633	223.63	8.14	37.14	I	C	LP	P
ADE	45.550	237.61	7.92	36.00	I	C	SP	P
WB2	48.830	258.25	7.70	34.84	I	C	SP	P
ASPA	48.986	253.31	7.68	34.77	I	C	SP	P
MTN	52.966	266.63	7.37	33.14	I	C	SP	P
KLG	59.759	244.02	6.85	30.57	I	C	SP	P
SBA	61.505	184.54	6.71	29.88	I	C	SP	P
NWAO	63.228	241.36	6.58	29.21	I	C	LP	P
DAV	64.297	286.82	6.49	28.79	E	C	LP	P
MRWA	64.604	245.36	6.47	28.67	I	C	SP	P
NAU	65.942	252.54	6.35	28.12	I	C	SP	P
MAP	67.010	289.38	6.26	27.70	I	D	SP	P
LGP	68.377	292.06	6.15	27.17	I	C	SP	P
TSK	68.459	321.43	6.15	27.14	I	C	SP	P
PGP	70.989	291.22	5.96	26.26	I	C	SP	P
SHK	72.091	315.96	5.88	25.90	I	C	LP	P
SHK	72.091	315.96	5.88	25.90	I	C	SP	P
SPA	73.002	180.00	5.82	25.60	I	C	SP	P
WDC	74.711	38.19	5.70	25.02	I	D	SP	P
CWC	75.023	43.79	5.68	24.94	I	D	SP	P
GSC	75.240	45.37	5.67	24.88	I	D	SP	P
TATO	75.416	302.22	5.66	24.83	I	C	LP	P
ANP	75.487	302.42	5.65	24.80	E	C	LP	P
MNA	76.117	42.07	5.60	24.58	I	D	SP	P
COR	76.839	34.65	5.56	24.38	I	D	SP	P
SSE	78.469	307.64	5.46	23.89	I	C	LP	P
LHD	83.320	35.02	5.07	22.11	I	D	SP	P
CLX	83.526	35.22	5.06	22.06	I	D	SP	P
KGM	83.523	274.10	5.06	22.06	I	C	SP	P
LDM	83.564	34.95	5.06	22.05	I	D	SP	P
YKM	83.582	34.46	5.06	22.04	I	D	LP	P
LRM	83.749	38.24	5.05	21.99	I	D	SP	P
RXF	83.903	34.68	5.04	21.96	I	D	LP	P
COL	84.181	10.95	5.02	21.87	I	C	SP	P

Table 163. Static data for event 86 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
COL	84.181	10.95	5.02	21.87	I	C	LP	P
FBA	84.181	10.95	5.02	21.87	I	C	SP	P
FBAS	84.232	11.35	5.01	21.85	I	C	SP	P
BJI	86.168	313.79	4.86	21.14	I	C	LP	P
EDM	87.269	31.68	4.79	20.83	I	D	SP	P
SNG	87.630	278.19	4.77	20.75	I	C	LP	P
NST	90.622	286.10	4.70	20.41	I	C	SP	P
KMI	91.176	295.80	4.69	20.35	I	C	LP	P
CHG	92.635	288.75	4.65	20.17	I	C	SP	P
CHTO	92.635	288.75	4.65	20.17	I	C	LP	P
CHG	92.635	288.75	4.65	20.17	I	C	LP	P
LZH	93.708	306.49	4.61	20.02	I	C	SP	P
RSON	97.166	39.04	4.52	19.59	E	C	LP	P
QUE	123.186	295.16	1.87	7.97	I	C	LP	PKP
BPI	131.911	207.03	1.84	7.86	I	D	SP	PKP
SWZ	132.124	203.51	1.84	7.85	I	D	SP	PKP
OBN	135.349	335.38	1.82	7.75	I	C	LP	PKP
COP	141.179	354.12	1.75	7.46	E	C	LP	PKP
DMU	141.953	12.32	1.74	7.41	I	C	SP	PKP
ECB	143.420	13.08	1.71	7.30	I	C	SP	PKP
ARO	143.837	266.19	1.70	7.27	I	C	LP	PKP
KSP	145.338	348.42	1.68	7.14	I	C	SP	PKP
DOU	147.079	1.58	1.64	6.97	E	C	LP	PKP
WET	147.552	351.48	1.62	6.92	I	C	SP	PKP
STU	148.310	355.88	1.60	6.84	E	C	LP	PKP
KMR	148.412	349.46	1.60	6.83	E	C	LP	PKP
IST	148.952	324.92	1.59	6.76	I	C	LP	PKP
LOR	149.879	2.80	1.56	6.65	I	D	SP	PKP
RMP	154.705	348.08	1.39	5.94	I	C	LP	PKP

Table 164. Station data for event 92.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NDF	5.511	297.49	11.31	109.77	I	C	SP	P
PVC	13.744	278.66	11.54	73.86	I	C	SP	P
NOU	15.149	259.86	10.64	62.32	I	C	SP	P
RAR	16.524	95.96	10.34	59.38	I	D	SP	P
COO	29.418	243.66	8.75	46.71	I	C	SP	P
CAN	33.023	236.10	8.53	45.22	I	C	SP	P
WAM	33.387	234.64	8.51	45.07	I	C	SP	P
CTAO	34.041	264.05	8.47	44.81	I	C	LP	P
PMG	35.851	282.43	8.36	44.08	I	C	SP	P
ISQ	40.201	261.73	8.13	42.57	I	C	SP	P
ADE	41.148	239.89	8.07	42.21	I	C	SP	P
ASPA	45.076	256.54	7.86	40.83	I	C	SP	P
WB2	45.142	261.81	7.85	40.80	I	C	SP	P
MTN	49.707	270.24	7.51	38.71	I	C	SP	P
SBA	58.020	183.91	6.89	34.98	I	C	SP	P
MBL	58.315	257.19	6.86	34.84	I	C	SP	P
KLB	58.592	244.81	6.84	34.72	I	C	SP	P
NWAO	58.905	243.21	6.83	34.62	I	C	SP	P
RKG	58.991	241.86	6.82	34.59	I	C	SP	P
BAL	59.599	245.83	6.77	34.31	I	C	SP	P
MRWA	60.392	247.32	6.71	33.94	I	C	SP	P
NAU	61.981	254.70	6.58	33.21	I	C	SP	P
TRT	68.595	269.56	6.05	30.25	I	C	SP	P
SPA	69.741	180.00	5.98	29.82	I	C	SP	P
PR1	77.701	43.86	5.45	26.95	I	D	SP	P
JAS1	78.922	42.52	5.34	26.38	I	D	SP	P
MNA	80.662	43.17	5.18	25.53	I	D	SP	P
CN2	82.537	322.16	5.07	24.95	I	D	SP	P
IPM	83.690	277.23	5.00	24.58	I	C	SP	P
LHD	87.816	36.14	4.73	23.16	E	D	LP	P
YKM	88.072	35.58	4.72	23.12	I	D	LP	P
KMI	89.780	296.84	4.69	23.00	E	D	LP	P
CHG	90.714	289.70	4.68	22.90	I	D	SP	P
DAG	122.564	5.71	1.87	8.95	I	D	SP	PKP
BUL	132.339	213.91	1.84	8.79	I	C	SP	PKP
DCN	146.239	10.64	1.65	7.89	I	C	SP	PKP
ETA	147.041	9.84	1.63	7.80	I	C	SP	PKP
ECB	147.264	10.63	1.62	7.77	I	C	SP	PKP
KRA	147.344	339.12	1.62	7.76	I	D	SP	PKP
MLR	148.423	327.81	1.59	7.63	I	C	SP	PKP

Table 165. Station data for event 94.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VUN	3.416	282.53	8.10	133.21	I	C	SP	P
NDF	4.413	282.68	9.24	123.74	I	C	SP	P
NOU	14.951	253.80	10.27	67.63	I	C	SP	P
KOU	16.752	261.01	9.97	63.76	I	C	SP	P
HNR	23.267	290.53	9.23	56.18	I	D	LP	P
COO	29.650	240.89	8.66	51.21	I	C	SP	P
RIV	31.273	235.22	8.56	50.42	I	C	SP	P
ALOA	31.678	280.98	8.54	50.22	I	D	SP	P
CAN	33.468	233.81	8.44	49.44	I	C	SP	P
YOU	33.594	235.89	8.43	49.38	I	C	SP	P
CTA	33.666	261.79	8.43	49.35	I	C	SP	P
CTAO	33.666	261.79	8.43	49.35	E	C	LP	P
WAM	33.871	232.41	8.42	49.25	I	C	SP	P
LMG	34.211	282.01	8.40	49.09	I	D	SP	P
CMS	34.916	241.68	8.35	48.75	I	C	SP	P
PMG	34.968	280.60	8.35	48.73	I	D	LP	P
LAT	36.095	284.90	8.29	48.29	I	D	SP	P
MOM	37.721	292.07	8.21	47.62	I	D	SP	P
TAU	37.837	222.92	8.20	47.55	I	C	LP	P
STK	38.535	242.21	8.17	47.32	I	C	SP	P
BFD	39.002	233.71	8.14	47.10	I	C	SP	P
MCQ	39.768	200.89	8.10	46.81	I	C	SP	P
ADE	41.475	238.20	8.01	46.14	I	C	SP	P
HON	44.414	27.14	7.84	44.92	I	D	LP	P
WB2	44.820	260.34	7.82	44.74	I	C	SP	P
ASPA	44.908	255.06	7.82	44.70	I	C	LP	P
WBN	51.396	251.21	7.32	41.19	I	C	SP	P
DRV	54.955	198.99	7.06	39.47	I	C	SP	P
KLG	55.643	245.16	7.02	39.18	I	C	SP	P
MBL	58.119	256.35	6.83	37.93	I	C	SP	P
MEK	58.530	249.85	6.80	37.72	I	C	SP	P
KLB	58.761	243.99	6.78	37.60	I	C	SP	P
NWAO	59.122	242.40	6.75	37.41	I	C	LP	P
BAL	59.738	245.04	6.70	37.09	I	C	SP	P
MUN	60.051	243.43	6.68	36.93	I	C	SP	P
MRWA	60.486	246.56	6.64	36.70	I	C	SP	P
DAV	61.236	289.45	6.59	36.39	I	D	LP	P
NAU	61.856	254.01	6.54	36.07	I	C	SP	P
PPR	68.498	288.93	6.02	32.81	I	D	SP	P
MAT	68.814	323.32	6.00	32.70	I	D	SP	P
MAJO	68.814	323.32	6.00	32.70	I	D	LP	P
OSK	68.968	320.28	5.99	32.64	I	D	SP	P
BAG	69.782	296.12	5.93	32.28	E	D	LP	P
SPA	71.335	180.00	5.82	31.60	I	C	SP	P
SPA	71.335	180.00	5.82	31.60	I	C	SP	P
TATO	73.183	304.40	5.70	30.85	E	D	LP	P
ANP	73.266	304.60	5.69	30.83	I	D	LP	P
QZH	75.449	303.02	5.56	30.04	I	D	SP	P
SEO	76.258	317.92	5.51	29.72	I	D	LP	P
SSE	76.568	309.67	5.48	29.58	I	D	SP	P

Table 165. Station data for event 94 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BKS	76.949	42.21	5.46	29.45	I	D	SP	P
PRI	76.958	44.41	5.46	29.45	I	D	SP	P
JAS1	78.142	43.03	5.38	28.93	I	D	SP	P
NJ2	78.764	309.45	5.30	28.50	I	D	SP	P
GZH	78.858	299.07	5.29	28.45	I	D	SP	P
MNA	79.900	43.63	5.20	27.89	I	D	SP	P
DL2	80.464	316.56	5.16	27.68	I	D	SP	P
CN2	80.924	322.29	5.13	27.52	I	D	SP	P
BMN	81.604	42.35	5.09	27.29	I	D	SP	P
MAW	83.165	199.71	5.00	26.74	I	C	LP	P
BJI	84.652	315.31	4.88	26.03	I	D	SP	P
PNT	85.252	34.02	4.83	25.79	I	D	SP	P
TIY	86.111	311.86	4.78	25.51	I	D	SP	P
ANMO	86.357	51.35	4.78	25.46	E	C	LP	P
COL	86.576	12.43	4.77	25.41	E	D	LP	P
LHD	86.871	36.41	4.75	25.34	I	D	LP	P
CLX	87.085	36.61	4.75	25.29	I	D	LP	P
LDM	87.113	36.33	4.75	25.28	I	D	LP	P
YKM	87.113	35.85	4.75	25.28	I	D	LP	P
NST	87.494	287.36	4.73	25.20	I	D	SP	P
KMI	88.544	297.02	4.71	25.08	I	D	LP	P
BDT	89.048	288.46	4.70	25.02	I	D	SP	P
BTO	89.077	313.60	4.70	25.02	I	D	SP	P
CHG	89.632	289.91	4.69	24.95	I	D	LP	P
CHTO	89.632	289.91	4.69	24.95	E	C	LP	P
SES	90.506	36.10	4.67	24.85	I	D	SP	P
LZH	91.702	307.53	4.63	24.65	I	D	SP	P
RSSD	91.940	43.85	4.63	24.64	E	C	LP	P
GTA	95.862	309.51	4.52	24.02	I	D	SP	P
CYA	99.447	124.27	4.44	23.55	I	C	SP	P
LPA	102.018	133.36	4.44	23.55	I	C	LP	Pdf
POO	112.373	282.80	1.89	9.78	I	C	SP	PKP
SJG	115.766	78.52	1.88	9.73	I	C	SP	PKP
GUV	116.037	90.37	1.88	9.73	I	C	SP	PKP
DAG	121.033	5.46	1.87	9.69	I	C	SP	PKP
GRM	123.121	204.60	1.87	9.68	I	C	SP	PKP
VIR	127.556	207.98	1.86	9.63	I	C	SP	PKP
KHI	127.626	298.95	1.86	9.63	I	C	LP	PKP
EVA	127.856	211.14	1.86	9.62	I	C	SP	PKP
BFS	128.607	208.66	1.85	9.61	I	C	SP	PKP
BUL	133.323	215.40	1.83	9.48	I	C	LP	PKP
TET	133.394	223.88	1.83	9.48	I	C	SP	PKP
OBN	135.189	332.44	1.81	9.40	I	C	LP	PKP
NAI	140.387	243.60	1.76	9.09	I	C	SP	PKP
MUD	141.999	353.51	1.73	8.96	I	C	SP	PKP
EKA	143.309	4.90	1.71	8.84	I	C	LP	PKP
HAM	144.843	351.74	1.68	8.68	I	C	SP	PKP
DDK	144.870	8.65	1.68	8.67	I	C	SP	PKP
DLE	144.937	8.90	1.67	8.67	I	C	SP	PKP
DKM	145.009	8.63	1.67	8.66	I	C	SP	PKP

Table 165. Station data for event 94 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BRL	145.234	347.84	1.67	8.63	I	C	SP	PKP
BRN	145.302	347.90	1.67	8.63	I	C	SP	PKP
ETA	145.561	8.81	1.66	8.60	I	C	SP	PKP
KRA	145.649	339.36	1.66	8.59	I	C	SP	PKP
KSP	146.049	343.69	1.65	8.54	I	C	SP	PKP
SPC	146.283	338.24	1.64	8.51	I	C	SP	PKP
JOS	146.760	337.26	1.63	8.46	I	C	SP	PKP
MLR	146.764	328.56	1.63	8.46	I	C	SP	PKP
PRU	147.282	344.93	1.62	8.39	I	C	SP	PKP
MOX	147.296	348.61	1.62	8.39	I	C	LP	PKP
PSZ	147.478	337.35	1.62	8.36	I	C	SP	PKP
BUC1	147.526	326.98	1.61	8.36	I	C	SP	PKP
BNS	147.629	353.85	1.61	8.34	I	C	SP	PKP
ENN	147.936	355.27	1.60	8.30	I	C	SP	PKP
MEM	148.087	355.13	1.60	8.28	I	C	SP	PKP
BUD	148.161	337.84	1.60	8.27	I	C	SP	PKP
ZST	148.188	340.64	1.60	8.26	I	C	SP	PKP
GRF	148.284	348.54	1.59	8.25	I	C	SP	PKP
GRA1	148.284	348.54	1.59	8.25	I	C	SP	PKP
VKA	148.367	341.59	1.59	8.24	I	C	SP	PKP
PVL	148.806	326.16	1.58	8.18	I	C	SP	PKP
WLF	149.012	354.72	1.57	8.15	I	C	LP	PKP
KMR	149.170	343.99	1.57	8.12	I	C	LP	PKP
STU	149.522	350.56	1.56	8.07	I	C	SP	PKP
FUR	149.733	347.59	1.55	8.04	I	C	SP	PKP
KDZ	149.732	323.83	1.55	8.04	I	C	SP	PKP
BUH	149.757	351.75	1.55	8.03	I	C	SP	PKP
PLD	149.775	325.16	1.55	8.03	I	C	SP	PKP
BHG	149.796	345.28	1.55	8.03	I	C	SP	PKP
FLN	150.033	3.25	1.54	7.99	I	C	SP	PKP
CDF	150.136	352.89	1.54	7.97	I	C	SP	PKP
VTS	150.216	327.43	1.54	7.96	I	C	SP	PKP
LDF	150.219	2.79	1.54	7.96	I	C	SP	PKP
KBA	150.278	344.22	1.54	7.95	I	C	SP	PKP
GRR	150.384	3.81	1.53	7.93	I	C	SP	PKP
GAP	150.433	347.45	1.53	7.92	I	C	SP	PKP
SLE	150.608	351.01	1.53	7.90	E	C	LP	PKP
HAU	150.638	354.00	1.53	7.89	I	C	SP	PKP
MMB	150.657	325.42	1.52	7.89	I	C	SP	PKP
LPF	150.727	4.13	1.52	7.88	I	C	SP	PKP
BSF	150.763	353.34	1.52	7.87	I	C	SP	PKP
ZUL	150.902	351.02	1.52	7.85	E	C	LP	PKP
SAX	150.974	349.61	1.51	7.84	E	C	LP	PKP
OGA	151.021	347.12	1.51	7.83	I	C	SP	PKP
OSS	151.372	348.21	1.50	7.77	E	C	LP	PKP
LLS	151.403	349.90	1.50	7.76	E	C	LP	PKP
VAY	151.462	326.30	1.50	7.75	I	C	SP	PKP
LOR	151.551	357.30	1.50	7.74	I	C	SP	PKP
GRC	151.552	358.42	1.50	7.74	I	C	SP	PKP
VDL	151.691	349.03	1.49	7.71	E	C	LP	PKP

Table 165. Station data for event 94 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SSF	151.772	357.78	1.49	7.70	I	C	SP	PKP
LBF	151.829	357.09	1.49	7.69	I	C	SP	PKP
AVF	152.048	357.97	1.48	7.65	I	C	SP	PKP
TMA	152.164	349.68	1.48	7.63	E	C	LP	PKP
SMF	152.174	357.23	1.48	7.63	I	C	SP	PKP
MFF	152.205	3.13	1.47	7.62	I	C	SP	PKP
MMK	152.361	350.98	1.47	7.60	E	C	LP	PKP
LIT	152.368	324.56	1.47	7.59	I	C	SP	PKP
DIX	152.412	351.80	1.47	7.59	E	C	LP	PKP
EMS	152.484	352.51	1.46	7.57	E	C	LP	PKP
OHR	152.525	328.08	1.46	7.57	I	C	SP	PKP
TCF	152.574	359.64	1.46	7.56	I	C	SP	PKP
LSF	152.610	0.66	1.46	7.55	I	C	SP	PKP
MZF	152.642	359.07	1.46	7.54	I	C	SP	PKP
PLDF	152.858	357.47	1.45	7.50	I	C	SP	PKP
ATH	153.070	319.71	1.44	7.46	I	C	SP	PKP
PYM	153.098	358.39	1.44	7.46	I	C	SP	PKP
SSB	153.497	355.93	1.43	7.38	I	C	SP	PKP
RJF	153.555	0.72	1.43	7.37	I	C	SP	PKP
LFF	153.903	1.98	1.41	7.30	I	C	SP	PKP
CAF	153.937	359.84	1.41	7.30	I	C	SP	PKP
LPO	154.171	1.28	1.40	7.25	I	C	SP	PKP
FRF	154.989	351.94	1.37	7.09	I	C	SP	PKP
LRG	155.130	352.38	1.37	7.06	I	C	SP	PKP
LMR	155.230	352.07	1.36	7.04	I	C	SP	PKP
CVF	155.582	347.60	1.35	6.96	I	C	SP	PKP
BOH	155.629	5.29	1.35	6.95	I	C	SP	PKP
JAU	155.743	4.17	1.34	6.93	I	C	SP	PKP
EPF	155.792	2.91	1.34	6.92	I	C	SP	PKP
MLS	155.892	1.59	1.33	6.90	I	C	SP	PKP
GUD	157.591	12.29	1.26	6.52	I	C	SP	PKP
LIS	157.915	23.65	1.25	6.45	I	C	SP	PKP
CRT	161.026	13.78	1.10	5.69	I	C	SP	PKP
AVE	163.284	28.34	0.99	5.09	I	C	SP	PKP
TIO	165.304	32.91	0.88	4.53	I	C	SP	PKP

Table 166. Station data for event 99.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	7.158	58.38	8.72	114.03	I	C	SP	P
PVC	12.994	268.09	9.54	87.07	I	D	SP	P
HNR	22.918	288.33	8.87	68.26	I	D	LP	P
COO	30.133	239.38	8.47	62.42	I	C	SP	P
CTA	33.805	260.31	8.27	59.99	I	C	SP	P
CAN	34.053	232.60	8.26	59.85	I	C	SP	P
WAM	34.476	231.24	8.23	59.54	I	C	SP	P
PMG	34.779	279.19	8.22	59.41	I	D	LP	P
CMS	35.385	240.43	8.19	59.01	I	C	SP	P
LAT	35.832	283.58	8.17	58.80	I	D	SP	P
MOM	37.339	290.87	8.09	57.89	I	D	SP	P
TAU	38.563	222.05	8.03	57.20	E	C	LP	P
STK	38.995	241.11	8.01	57.02	I	C	SP	P
MCQ	40.698	200.46	7.92	56.02	I	C	SP	P
ADE	41.994	237.24	7.85	55.30	I	C	SP	P
HON	43.534	27.64	7.75	54.24	E	C	LP	P
WB2	44.979	259.36	7.65	53.17	I	D	SP	P
ASPA	45.158	254.10	7.63	53.02	I	D	SP	P
GUA	47.997	307.97	7.42	51.00	E	D	LP	P
GUMO	48.062	307.98	7.42	50.95	E	D	LP	P
MTN	49.146	268.22	7.34	50.22	I	D	SP	P
DRV	55.896	198.76	6.87	45.98	I	C	SP	P
KLK	56.053	244.54	6.86	45.89	I	C	SP	P
MBL	58.343	255.76	6.69	44.42	I	D	SP	P
MEK	58.863	249.28	6.64	44.07	I	D	SP	P
KLB	59.189	243.45	6.62	43.85	I	C	SP	P
NWAO	59.574	241.88	6.59	43.60	I	C	LP	P
RKG	59.720	240.55	6.58	43.50	I	C	SP	P
BAL	60.149	244.52	6.54	43.23	I	C	SP	P
SBA	60.570	183.66	6.52	43.02	I	C	SP	P
DAV	60.891	288.94	6.49	42.81	I	D	LP	P
NAU	62.120	253.50	6.39	42.01	I	D	SP	P
LGP	65.148	294.14	6.16	40.16	I	D	SP	P
MAT	68.002	323.09	5.96	38.62	I	D	SP	P
MAJO	68.002	323.09	5.96	38.62	I	D	LP	P
BAG	69.328	295.79	5.87	37.94	E	D	LP	P
SPA	72.336	180.00	5.67	36.42	I	C	SP	P
TATO	72.605	304.16	5.66	36.30	E	D	LP	P
ANP	72.685	304.36	5.65	36.26	I	D	LP	P
QZH	74.891	302.81	5.52	35.28	I	D	SP	P
NJ2	78.117	309.30	5.25	33.35	I	D	SP	P
MDJ	78.272	324.72	5.24	33.27	I	D	SP	P
COR	79.586	36.39	5.15	32.60	I	C	SP	P
DL2	79.726	316.45	5.14	32.54	I	D	SP	P
SNY	80.102	319.76	5.12	32.38	I	D	SP	P
CN2	80.123	322.20	5.11	32.37	I	D	SP	P
LON	81.730	35.29	5.02	31.69	E	C	LP	P
IPM	82.775	277.14	4.96	31.27	I	D	SP	P
COL	85.602	12.45	4.77	29.93	E	D	LP	P
ANMO	85.746	51.41	4.76	29.89	E	C	LP	P

Table 166. Station data for event 99 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CHTO	89.275	289.90	4.67	29.30	E	D	LP	P

Table 167. Station data for event 120.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	6.962	18.94	13.94	81.28	I	D	SP	Φ
PVC	16.852	276.57	12.52	62.59	I	C	SP	P
NOU	18.195	260.96	12.32	60.88	I	C	SP	P
YOU	35.796	239.57	8.49	37.01	I	C	SP	P
WAM	35.863	236.24	8.49	37.01	I	C	SP	P
CTAO	37.121	263.58	8.44	36.76	I	C	LP	P
PMG	38.934	280.66	8.32	36.15	I	C	SP	P
ADE	43.774	240.57	8.04	34.76	I	C	SP	P
HON	44.479	21.64	8.01	34.61	E	C	LP	P
DRV	54.560	200.56	7.29	31.12	I	C	SP	P
SBA	58.095	184.69	7.03	29.90	I	C	SP	P
NWAO	61.611	242.94	6.75	28.60	I	C	LP	P
BAL	62.372	245.47	6.67	28.23	I	D	SP	P
MUN	62.596	243.87	6.67	28.23	I	C	SP	P
MUN	62.596	243.87	6.67	28.23	E	C	LP	P
SPA	69.583	180.00	6.10	25.63	I	C	SP	P
MAJO	72.466	321.34	5.88	24.64	I	C	LP	P
MAT	72.466	321.34	5.88	24.64	I	C	SP	P
BAG	73.881	294.80	5.78	24.19	E	C	LP	P
FRI	76.824	41.96	5.58	23.31	I	C	SP	P
JAS1	76.968	40.85	5.58	23.31	I	C	SP	P
TATO	77.239	302.93	5.58	23.31	I	C	LP	P
ORV	77.358	39.01	5.55	23.17	I	C	SP	P
WDC	77.421	37.68	5.55	23.17	I	C	SP	P
MIN	77.807	38.34	5.51	23.00	I	C	SP	P
MNA	78.679	41.58	5.48	22.87	I	C	SP	P
LON	81.897	33.33	5.17	21.51	I	C	LP	P
III	82.728	67.39	5.14	21.37	I	C	SP	P
TPM	83.327	66.99	5.08	21.11	I	C	SP	P
ANMO	84.608	49.74	5.02	20.85	I	C	LP	P
ALQ	84.605	49.75	5.02	20.85	I	C	SP	P
VHO	84.654	69.49	5.02	20.85	I	C	SP	P
PNT	84.689	32.34	5.02	20.85	I	C	SP	P
RXF	86.730	34.53	4.86	20.16	I	C	SP	P
COL	87.542	10.91	4.80	19.90	I	C	SP	P
PEL	89.576	125.30	4.71	19.51	I	C	SP	P
JACH	89.836	124.91	4.71	19.51	I	C	SP	P
EDM	90.191	31.65	4.71	19.51	I	C	SP	P
RSSD	90.677	42.62	4.70	19.47	I	C	LP	P
TUL	92.836	52.75	4.64	19.21	I	C	LP	P
INK	93.392	14.02	4.63	19.17	I	C	SP	P
CHTO	93.709	288.58	4.63	19.17	I	C	LP	P
CHG	93.709	288.58	4.63	19.17	I	C	SP	P
RSNT	95.048	23.70	4.58	18.95	I	C	LP	P
SHA	96.906	59.95	4.53	18.74	E	C	LP	P
DCN	145.727	14.05	1.66	6.77	I	C	SP	PKP
DDK	145.893	13.09	1.66	6.77	I	C	SP	PKP
ETA	146.568	13.40	1.64	6.67	I	C	SP	PKP
ECB	146.748	14.21	1.64	6.67	I	C	SP	PKP
ECP	147.015	13.91	1.64	6.67	I	C	SP	PKP

Table 167. Station data for event 120 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WET	150.926	350.55	1.53	6.22	I	C	SP	PKP
VKA	151.100	345.52	1.53	6.22	I	C	SP	PKP
KMR	151.763	348.29	1.50	6.09	I	C	LP	PKP
SKO	154.928	331.87	1.39	5.64	I	C	SP	PKP
PTO	156.058	27.79	1.35	5.48	E	C	LP	PKP
MAL	161.535	27.01	1.07	4.34	I	C	SP	PKP

Table 168. Station data for event 143.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
GNZ	3.139	194.14	13.55	98.66	I	D	SP	P
NOU	17.179	317.05	12.29	63.67	I	C	SP	P
ADE	32.740	259.14	8.66	39.19	I	D	SP	P
WB2	42.103	279.57	8.12	36.33	I	C	SP	P
SBA	42.691	183.80	8.10	36.21	I	C	SP	P
KLG	47.818	258.53	7.80	34.68	I	D	SP	P
NWAO	50.379	254.15	7.59	33.64	E	C	LP	P
NWAO	50.379	254.15	7.59	33.64	I	C	SP	P
KLB	50.456	255.97	7.59	33.61	I	D	SP	P
SPA	54.589	180.00	7.26	31.98	I	C	SP	P
GUMO	58.619	320.27	6.96	30.50	I	C	LP	P
DAV	65.735	299.04	6.39	27.77	E	C	LP	P
TRT	66.361	277.63	6.33	27.50	I	C	SP	P
MAW	66.571	202.02	6.31	27.41	I	C	SP	P
BKB	66.792	286.01	6.29	27.33	I	C	SP	P
CGP	67.307	299.44	6.25	27.13	I	D	SP	P
PLP	68.998	301.72	6.12	26.50	I	C	SP	P
TATO	81.139	309.21	5.23	22.41	E	C	LP	P
MAT	81.171	327.83	5.22	22.40	I	C	SP	P
MAJO	81.171	327.83	5.22	22.40	I	C	LP	P
QZH	82.970	307.31	5.10	21.83	I	D	SP	P
LVN	84.550	128.12	5.00	21.41	I	C	SP	P
PEL	85.534	127.89	4.93	21.09	I	C	SP	P
JACH	85.889	127.58	4.89	20.90	I	C	SP	P
NST	90.226	289.06	4.70	20.04	I	C	SP	P
CHTO	93.004	290.88	4.64	19.78	E	C	LP	P
KMI	93.965	298.03	4.61	19.65	E	C	LP	P
SLR	113.017	208.64	1.89	7.91	I	C	SP	PKP
BUL	117.868	211.68	1.88	7.87	I	C	SP	PKP
MBC	118.029	13.81	1.88	7.87	I	C	SP	PKP
MTD	119.450	216.33	1.87	7.86	I	C	SP	PKP
DAG	137.957	6.03	1.79	7.51	I	C	SP	PKP
BNG	144.124	214.69	1.70	7.12	I	C	SP	PKP
SOP	162.216	318.13	1.05	4.41	I	C	SP	PKP
OGA	165.577	324.98	0.87	3.66	I	C	SP	PKP
CTI	165.852	321.39	0.86	3.59	I	C	SP	PKP
LRG	170.315	326.32	0.60	2.51	I	C	SP	PKP
EPF	172.505	352.45	0.47	1.96	I	C	SP	PKP

Table 170. Station data for event 148.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AFI	2.512	41.86	13.79	97.73	I	C	SP	P
VUN	7.998	252.92	13.71	80.23	I	C	SP	P
PVC	17.521	261.10	12.32	62.26	I	C	SP	P
NOU	20.015	248.04	10.31	47.82	I	C	SP	P
COO	34.882	238.92	8.54	37.89	I	C	SP	P
CTA	38.459	257.50	8.33	36.77	I	C	LP	P
CAN	38.711	232.75	8.32	36.71	I	C	SP	P
PMG	38.870	274.58	8.31	36.69	I	C	SP	P
WAM	39.109	231.51	8.30	36.63	I	C	SP	P
CMS	40.142	239.73	8.24	36.31	I	C	SP	P
TOO	42.139	231.00	8.13	35.75	I	C	SP	P
TAU	42.958	222.93	8.09	35.55	E	C	LP	P
STK	43.757	240.27	8.04	35.30	I	C	SP	P
ADE	46.719	236.68	7.87	34.47	I	C	SP	P
WB2	49.645	257.09	7.67	33.43	I	C	SP	P
ASPA	49.897	252.22	7.65	33.33	I	C	SP	P
GUMO	50.464	303.11	7.60	33.11	I	C	LP	P
SBA	62.849	184.61	6.63	28.46	I	C	SP	P
MBL	63.062	254.02	6.61	28.38	I	C	SP	P
NWAO	64.340	240.77	6.51	27.90	E	C	LP	P
RKG	64.476	239.50	6.50	27.85	I	D	SP	P
NAU	66.864	251.91	6.30	26.91	I	C	SP	P
MAT	69.172	319.96	6.11	26.07	I	C	SP	P
MAJO	69.172	319.96	6.11	26.07	I	C	LP	P
JAS1	73.036	41.38	5.84	24.79	I	D	SP	P
WDC	73.346	38.14	5.81	24.68	I	D	SP	P
ORV	73.341	39.49	5.81	24.68	I	D	SP	P
SPA	74.305	180.00	5.74	24.38	I	C	SP	P
MNA	74.781	42.03	5.71	24.23	I	D	SP	P
TATO	75.192	301.69	5.69	24.12	I	C	LP	P
SEO	77.072	315.35	5.56	23.57	E	C	LP	P
CN2	81.321	320.14	5.22	22.01	I	C	SP	P
SNY	81.496	317.71	5.20	21.94	I	C	SP	P
CLX	82.144	35.10	5.15	21.72	I	D	SP	P
YKM	82.196	34.34	5.15	21.71	I	D	SP	P
RXF	82.518	34.55	5.13	21.63	I	D	SP	P
COL	82.797	10.75	5.12	21.59	I	C	SP	P
COL	82.797	10.75	5.12	21.59	E	C	LP	P
BJI	85.666	313.53	4.93	20.76	E	C	LP	P
YKC	90.537	23.48	4.70	19.74	I	D	SP	P
NST	90.791	285.96	4.69	19.72	I	C	SP	P
KMI	91.106	295.67	4.69	19.69	E	C	LP	P
CHTO	92.738	288.65	4.64	19.49	E	C	LP	P
CHG	92.738	288.65	4.64	19.49	I	C	SP	P
CLL	144.195	353.02	1.70	7.01	I	C	SP	PKP
SPC	144.858	344.28	1.69	6.96	I	C	SP	PKP
BNS	144.920	359.25	1.68	6.95	I	C	SP	PKP
MOX	144.998	354.32	1.68	6.95	I	C	SP	PKP
UCC	145.048	2.37	1.68	6.94	E	C	LP	PKP
PRU	145.281	350.87	1.68	6.92	I	C	SP	PKP

Table 170. Station data for event 148 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HOF	145.301	353.94	1.68	6.92	I	C	SP	PKP
JOS	145.413	343.48	1.67	6.91	I	C	SP	PKP
NAI	145.586	243.21	1.67	6.90	I	C	SP	PKP
TNS	145.629	357.78	1.67	6.89	I	C	SP	PKP
DOU	145.759	2.18	1.67	6.88	E	C	LP	PKP
GRF	145.980	354.51	1.66	6.86	I	C	SP	PKP
TLB	146.011	332.02	1.66	6.86	I	C	SP	PKP
MLR	146.188	335.11	1.66	6.84	I	C	SP	PKP
ISR	146.227	334.12	1.66	6.84	I	C	SP	PKP
KHC	146.259	351.62	1.66	6.84	I	C	SP	PKP
GWF	146.900	358.64	1.64	6.77	I	C	SP	PKP
STU	147.044	356.72	1.64	6.76	E	C	LP	PKP
KMR	147.224	350.52	1.63	6.74	I	C	LP	PKP
JMB	148.323	331.06	1.61	6.62	I	C	SP	PKP
YLV	148.320	325.67	1.61	6.63	I	C	SP	PKP
PVL	148.417	333.42	1.60	6.61	I	C	SP	PKP
GRC	148.468	4.46	1.60	6.61	I	C	SP	PKP
KGT	149.497	327.72	1.57	6.49	I	C	SP	PKP
CTI	149.537	352.91	1.57	6.49	I	C	SP	PKP
VTS	149.691	335.13	1.57	6.47	I	C	SP	PKP
SAL	150.092	354.32	1.56	6.42	I	C	SP	PKP
EZN	150.463	328.00	1.54	6.37	I	C	SP	PKP

Table 171. Station data for event 149.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KRO	5.147	315.29	12.20	104.86	I	C	SP	P
SVA	5.313	302.27	12.26	103.89	I	C	SP	P
VUN	5.370	303.27	12.27	103.56	I	C	SP	P
MSV	5.831	303.08	12.39	101.14	I	C	SP	P
MBU	5.838	313.00	12.39	101.10	I	C	SP	P
PVC	14.406	280.59	12.14	74.05	I	C	SP	P
NOU	15.605	262.27	11.93	70.93	I	C	SP	P
HNR	25.167	293.76	9.27	47.21	E	D	LP	P
RAB	34.465	294.77	8.49	42.25	E	D	LP	P
CMS	34.929	244.86	8.46	42.07	I	D	SP	P
TOO	36.485	234.79	8.37	41.50	I	D	SP	P
STK	38.562	244.95	8.25	40.82	I	D	SP	P
MDG	39.512	288.07	8.21	40.54	I	D	SP	P
GUMO	50.987	309.12	7.47	36.26	I	D	LP	P
SBA	57.420	184.08	6.98	33.58	I	C	SP	P
MBL	58.723	257.44	6.89	33.05	I	D	SP	P
NAU	62.356	254.90	6.60	31.51	I	D	SP	P
SPA	69.100	180.00	6.06	28.68	I	C	SP	P
MAT	71.286	323.06	5.90	27.86	I	D	SP	P
MAJO	71.286	323.06	5.90	27.86	E	D	LP	P
TATO	75.386	304.33	5.62	26.45	E	D	LP	P
SAO	77.660	42.57	5.48	25.71	I	C	SP	P
PRI	77.776	43.47	5.47	25.68	I	C	SP	P
FRI	78.902	43.25	5.38	25.24	I	C	SP	P
JAS1	79.016	42.14	5.37	25.18	I	C	SP	P
ORV	79.354	40.31	5.33	24.98	I	C	SP	P
WDC	79.379	38.99	5.33	24.97	I	C	SP	P
MIN	79.784	39.63	5.29	24.75	I	C	SP	P
MNA	80.747	42.82	5.21	24.35	I	C	SP	P
MAW	81.443	199.55	5.15	24.09	I	D	SP	P
CN2	83.388	321.95	5.04	23.51	I	D	SP	P
OXM	85.449	67.48	4.88	22.74	I	C	SP	P
PNT	86.477	33.45	4.81	22.40	I	C	SP	P
ALQ	86.872	50.80	4.79	22.27	I	C	SP	P
LHD	88.003	35.90	4.74	22.05	I	C	SP	P
CLX	88.209	36.10	4.73	22.01	I	C	SP	P
LDM	88.248	35.83	4.73	22.00	I	C	SP	P
YKM	88.267	35.35	4.73	21.99	I	C	SP	P
COL	88.520	11.95	4.72	21.95	I	D	SP	P
RXF	88.587	35.57	4.72	21.94	I	C	SP	P
CHG	91.459	289.48	4.67	21.70	I	D	SP	P
SES	91.647	35.73	4.66	21.67	I	C	SP	P
EDM	91.953	32.57	4.65	21.62	I	C	SP	P
YKC	96.572	24.47	4.52	20.96	I	D	SP	P
CER	123.775	196.23	1.87	8.51	I	D	SP	PKP
BLF	125.442	204.82	1.86	8.49	I	D	SP	PKP
EVA	126.496	209.13	1.86	8.48	I	D	SP	PKP
BPI	127.251	208.32	1.86	8.47	I	D	SP	PKP
SWZ	127.500	205.04	1.86	8.47	I	D	SP	PKP
KSR	128.016	207.39	1.86	8.46	I	D	SP	PKP

Table 171. Station data for event 149 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BUL	132.114	212.95	1.84	8.38	I	D	SP	PKP
MTD	133.225	218.71	1.83	8.34	I	D	SP	PKP
DCN	146.760	11.45	1.64	7.46	I	D	SP	PKP
DLE	146.946	10.72	1.63	7.44	I	D	SP	PKP
KSP	148.513	344.01	1.60	7.26	I	D	SP	PKP
GWF	151.893	353.78	1.49	6.79	I	D	SP	PKP
KBA	152.737	344.73	1.46	6.66	I	D	SP	PKP
TR1	153.898	342.99	1.42	6.46	I	D	SP	PKP
CTI	154.102	346.41	1.41	6.43	I	D	SP	PKP
ORO	155.157	351.96	1.37	6.24	I	D	SP	PKP

Table 172. Station data for event 154.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WEL	5.241	222.36	14.15	56.21	I	C	SP	P
NOU	18.839	319.82	12.17	45.62	I	C	SP	P
KOU	21.414	317.80	10.06	36.22	I	C	SP	P
PVC	21.983	330.53	9.95	35.76	I	C	SP	P
RIV	23.241	270.52	9.76	34.98	I	D	SP	P
COO	23.807	278.67	9.61	34.36	I	C	SP	P
CAN	24.558	265.80	9.54	34.08	I	D	SP	P
RMQ	28.137	284.02	9.19	32.67	I	D	SP	P
HNR	33.027	322.81	8.68	30.65	E	C	LP	P
HNR	33.027	322.81	8.68	30.65	I	C	SP	P
CTAO	33.643	291.74	8.65	30.53	I	C	LP	P
CTA	33.643	291.74	8.65	30.53	I	C	LP	P
ISQ	38.340	284.53	8.35	29.37	I	D	SP	P
PMG	40.374	305.52	8.24	28.94	E	C	LP	P
SBA	40.824	184.08	8.21	28.83	I	D	SP	P
ASPA	41.183	276.25	8.21	28.83	I	D	SP	P
WB2	42.804	281.27	8.10	28.41	I	D	SP	P
WBN	45.806	268.43	7.94	27.80	I	D	SP	P
KLG	47.822	260.01	7.82	27.34	I	D	SP	P
KNA	49.553	281.77	7.70	26.89	I	D	SP	P
NWAO	50.233	255.49	7.66	26.74	I	D	LP	P
BAL	51.605	257.95	7.54	26.29	I	C	SP	P
SPA	52.693	180.00	7.46	25.99	I	D	SP	P
MBL	53.633	270.05	7.38	25.69	I	D	SP	P
GUA	60.247	320.57	6.88	23.83	E	C	LP	P
GUMO	60.312	320.55	6.84	23.69	I	C	LP	P
HON	62.230	23.82	6.72	23.25	E	C	LP	P
MKS	63.190	284.94	6.64	22.95	I	D	SP	P
MAW	64.951	202.23	6.47	22.33	I	D	SP	P
DAV	66.978	299.42	6.31	21.75	E	D	LP	P
SNA	72.496	179.37	5.89	20.24	I	D	SP	P
BAG	77.027	302.53	5.58	19.13	E	D	LP	P
TATO	82.618	309.12	5.14	17.57	I	D	LP	P
MAJO	82.968	327.66	5.11	17.46	E	N	LP	P
MAT	82.968	327.66	5.11	17.46	I	D	SP	P
SAN	83.898	127.75	5.05	17.25	I	D	SP	P
BACH	84.071	127.77	5.05	17.25	I	D	SP	P
PEL	84.087	127.50	5.05	17.25	I	D	SP	P
PEL	84.087	127.50	5.05	17.25	E	D	LP	P
SNG	85.549	282.46	4.96	16.94	I	D	LP	P
SSE	87.279	313.08	4.80	16.37	E	D	LP	P
SEO	89.026	320.92	4.73	16.13	E	C	LP	P
CYA	90.353	126.89	4.70	16.02	I	D	SP	P
LPA	90.409	136.19	4.70	16.02	I	D	LP	P
ANT	90.498	120.61	4.70	16.02	I	D	LP	P
NST	91.185	288.77	4.70	16.02	I	D	SP	P
CHG	94.014	290.52	4.61	15.71	I	D	SP	P
CHTO	94.014	290.52	4.61	15.71	I	D	LP	P
TPM	94.848	69.92	4.58	15.60	I	D	SP	P
VHO	95.542	72.66	4.56	15.53	I	D	SP	P

Table 172. Station data for event 154 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ZOBO	97.048	116.54	4.53	15.43	1	D	LP	P
LON	98.984	36.52	4.48	15.26	1	D	LP	P
ANMO	99.581	53.25	4.47	15.22	1	D	LP	P
BOG	105.871	96.43	1.89	6.37	E	D	LP	Pdf
MBC	119.782	13.98	1.87	6.32	1	D	SP	PKP
MNT	126.420	56.74	1.86	6.29	1	C	SP	PKP
NAI	128.225	230.54	1.86	6.27	E	D	LP	PKP
NAI	128.225	230.54	1.86	6.27	1	C	SP	PKP
AKU	149.963	14.45	1.56	5.26	1	C	SP	PKP
JER	150.159	269.74	1.56	5.26	1	D	SP	PKP
MBO	152.753	143.28	1.46	4.93	1	D	SP	PKP
COP	159.802	338.38	1.17	3.93	E	D	LP	PKP
KRA	160.675	317.01	1.12	3.77	1	C	SP	PKP
ATH	160.809	278.85	1.12	3.77	1	D	SP	PKP
HAM	162.457	338.86	1.07	3.60	1	C	SP	PKP
VKA	163.648	316.48	0.96	3.25	1	D	SP	PKP
KHC	164.510	323.11	0.91	3.06	1	D	SP	PKP
KMR	164.943	319.12	0.91	3.06	1	D	LP	PKP
GRF	165.148	328.88	0.91	3.06	1	D	SP	PKP
VOY	166.273	312.93	0.85	2.88	1	D	SP	PKP
TRI	166.524	311.98	0.80	2.68	1	D	SP	PKP
STU	166.688	330.90	0.80	2.68	E	D	LP	PKP

Table 173. Station data for event 162.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	26.552	279.55	9.33	33.25	I	C	LP	P
RAB	35.509	284.54	8.53	30.08	E	C	LP	P
CTAO	38.558	256.88	8.35	29.38	I	C	LP	P
PMG	38.819	273.96	8.32	29.27	E	C	LP	P
HON	39.432	23.11	8.29	29.15	I	D	LP	P
CMS	40.389	239.21	8.24	28.96	I	C	SP	P
TOO	42.449	230.56	8.13	28.54	I	C	SP	P
STK	43.999	239.81	8.05	28.23	I	C	SP	P
ASPA	50.042	251.82	7.66	26.75	I	C	SP	P
GUA	50.115	302.75	7.66	26.75	E	D	LP	P
GUMO	50.178	302.77	7.66	26.75	I	D	LP	P
SBA	63.352	184.59	6.60	22.82	I	C	LP	P
NWAO	64.577	240.56	6.51	22.49	I	C	LP	P
MAJO	68.777	319.85	6.14	21.15	I	D	LP	P
FRI	72.581	42.63	5.89	20.25	I	C	SP	P
JAS	72.665	41.46	5.89	20.25	I	D	LP	P
JAS1	72.665	41.49	5.89	20.25	I	C	SP	P
ORV	72.959	39.60	5.85	20.11	I	C	SP	P
WDC	72.956	38.24	5.85	20.11	I	C	SP	P
MNA	74.413	42.13	5.75	19.75	I	C	SP	P
SPA	74.811	180.00	5.71	19.60	I	C	SP	P
TATO	74.916	301.58	5.71	19.60	I	D	LP	P
ANP	74.981	301.79	5.71	19.60	I	D	LP	P
BMN	76.138	40.85	5.64	19.35	I	C	SP	P
SEO	76.703	315.28	5.61	19.25	E	D	LP	P
SEO	76.703	315.28	5.61	19.25	I	D	SP	P
LON	77.229	33.60	5.58	19.14	I	D	LP	P
PNT	79.977	32.48	5.36	18.36	I	C	SP	P
NEW	80.676	34.34	5.31	18.18	I	C	SP	P
IIP	81.040	67.16	5.26	18.00	I	C	SP	P
LHD	81.529	34.94	5.22	17.86	I	C	SP	P
CLX	81.737	35.15	5.22	17.86	I	C	SP	P
LDM	81.772	34.87	5.18	17.72	I	C	SP	P
YKM	81.786	34.38	5.18	17.72	I	C	SP	P
LRM	81.994	38.18	5.18	17.72	I	C	SP	P
RXF	82.108	34.60	5.18	17.72	I	C	SP	P
BDW	82.251	41.88	5.14	17.58	I	C	SP	P
COL	82.302	10.77	5.14	17.58	I	C	SP	P
VHO	82.316	69.85	5.14	17.58	I	D	SP	P
SES	85.171	34.73	4.99	17.05	I	C	SP	P
RSSD	86.450	42.52	4.86	16.59	I	N	LP	P
MAW	87.866	198.63	4.77	16.28	I	C	SP	P
SNG	87.908	277.97	4.77	16.28	I	C	LP	P
RSNT	90.034	23.45	4.71	16.07	I	N	LP	P
ROCH	91.935	124.80	4.67	15.93	I	C	SP	P
SAN	92.050	125.35	4.67	15.93	I	C	SP	P
FFC	92.068	33.41	4.67	15.93	I	C	SP	P
PEL	92.136	125.05	4.67	15.93	I	C	SP	P
CHTO	92.564	288.68	4.66	15.89	I	C	LP	P
CHG	92.564	288.68	4.66	15.89	I	C	SP	P

Table 173. Station data for event 162 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NNA	93.192	103.25	4.64	15.82	I	C	SP	P
RSON	95.420	38.80	4.56	15.54	E	N	LP	P
ANT	95.497	116.25	4.56	15.54	I	C	LP	P
UPA	96.133	82.39	4.55	15.51	I	C	LP	P
RSCP	97.089	55.16	4.53	15.44	E	N	LP	P
BOG	100.308	88.00	4.45	15.16	E	C	LP	P
WES	109.086	50.03	1.89	6.38	E	C	LP	PKP
GDH	114.626	19.85	1.88	6.35	E	C	LP	PKP
DAG	117.131	6.34	1.88	6.34	E	C	LP	PKP
DAG	117.131	6.34	1.88	6.34	I	C	SP	PKP
BAO	118.042	117.32	1.88	6.33	I	C	SP	PKP
KEV	124.074	351.53	1.87	6.30	E	C	LP	PKP
NUR	132.956	347.83	1.84	6.19	E	C	LP	PKP
BUL	138.617	212.37	1.78	6.01	E	C	LP	PKP
COP	139.430	354.82	1.78	6.01	E	C	LP	PKP
BNS	144.414	359.25	1.70	5.75	I	C	SP	PKP
ARO	144.459	268.50	1.70	5.75	I	C	LP	PKP
MOX	144.493	354.37	1.70	5.75	I	C	SP	PKP
SGH	144.645	268.29	1.68	5.68	E	C	LP	PKP
MEM	144.772	0.53	1.68	5.68	I	C	SP	PKP
VRI	145.098	335.01	1.68	5.68	I	C	SP	PKP
TNS	145.123	357.79	1.68	5.68	I	C	SP	PKP
DOU	145.253	2.14	1.68	5.68	E	C	LP	PKP
GRF	145.475	354.57	1.68	5.68	I	C	SP	PKP
VLR	145.704	339.22	1.66	5.61	I	C	SP	PKP
KHC	145.756	351.71	1.66	5.61	I	C	SP	PKP
ISR	145.766	334.43	1.66	5.61	I	C	SP	PKP
NAI	145.800	243.88	1.66	5.61	I	C	SP	PKP
NAI	145.800	243.88	1.66	5.61	I	C	LP	PKP
WET	145.835	352.51	1.66	5.61	I	C	SP	PKP
ZST	146.038	347.25	1.66	5.61	I	C	SP	PKP
VKA	146.133	348.18	1.66	5.61	I	C	SP	PKP
FLN	146.135	8.28	1.66	5.61	I	C	SP	PKP
VIE	146.141	348.12	1.66	5.61	I	C	LP	PKP
PSN	146.190	331.18	1.66	5.61	I	C	SP	PKP
BUD	146.256	344.62	1.66	5.61	I	C	SP	PKP
LDF	146.349	7.92	1.66	5.61	I	C	SP	PKP
GRR	146.446	8.87	1.66	5.61	I	C	SP	PKP
STU	146.539	356.75	1.64	5.53	I	C	LP	PKP
STU	146.539	356.75	1.64	5.53	E	C	LP	PKP
BUC	146.539	334.13	1.64	5.53	I	C	SP	PKP
SOP	146.640	347.59	1.64	5.53	I	C	SP	PKP
KMR	146.723	350.63	1.64	5.53	I	C	LP	PKP
KBA	147.796	351.19	1.62	5.45	I	C	SP	PKP
JMB	147.873	331.43	1.62	5.45	I	C	SP	PKP
PVL	147.958	333.77	1.62	5.45	I	C	SP	PKP
GRC	147.964	4.38	1.62	5.45	I	C	SP	PKP
LOR	148.043	3.38	1.62	5.45	I	C	SP	PKP
SSF	148.227	3.87	1.62	5.45	I	C	SP	PKP
LBF	148.333	3.27	1.62	5.45	I	C	SP	PKP

Table 173. Station data for event 162 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AVF	148.487	4.12	1.62	5.45	I	C	SP	PKP
BGF	148.680	4.83	1.59	5.35	I	C	SP	PKP
LSF	148.858	6.66	1.59	5.35	I	C	SP	PKP
TCF	148.891	5.74	1.59	5.35	I	C	SP	PKP
PLDF	149.322	3.92	1.59	5.35	I	C	SP	PKP
PYM	149.495	4.80	1.59	5.35	I	C	SP	PKP
SKO	150.445	337.03	1.56	5.26	I	C	SP	PKP
PTO	151.109	24.01	1.53	5.15	I	C	LP	PKP
FRF	151.825	359.75	1.50	5.05	I	C	SP	PKP
LRG	151.931	0.19	1.50	5.05	I	C	SP	PKP
LMR	152.052	359.96	1.50	5.05	I	C	SP	PKP
TOL	153.826	18.60	1.43	4.81	I	C	LP	PKP
MAL	156.549	22.43	1.30	4.40	I	C	LP	PKP

Table 174. Station data for event 170.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CTAO	33.893	278.06	8.61	37.49	I	C	LP	P
CTA	33.893	278.06	8.61	37.49	I	C	SP	P
ASPA	43.351	266.11	8.07	34.78	I	C	SP	P
HON	54.191	22.88	7.33	31.21	E	D	LP	P
NWAO	54.827	248.83	7.25	30.83	I	C	LP	P
MUN	55.919	249.65	7.17	30.45	E	C	LP	P
GUMO	56.137	314.71	7.17	30.45	I	C	LP	P
SPA	60.449	180.00	6.83	28.87	I	C	SP	P
MAW	73.018	200.44	5.85	24.42	I	C	SP	P
MAT	77.792	325.07	5.51	22.92	I	C	LP	P
TATO	79.698	306.41	5.41	22.48	I	C	LP	P
ANP	79.810	306.59	5.35	22.22	E	C	LP	P
SSE	83.806	310.97	5.05	20.91	E	C	LP	P
LNV	85.958	126.91	4.90	20.26	I	C	SP	P
JAS	86.028	41.85	4.90	20.26	E	N	LP	P
LON	91.329	34.75	4.68	19.32	E	C	LP	P
ANMO	92.994	51.20	4.64	19.15	I	C	LP	P
CHTO	93.539	289.52	4.63	19.10	I	C	LP	P
CHG	93.539	289.52	4.63	19.10	I	C	LP	P
COL	97.158	12.41	4.53	18.67	I	C	LP	P
RSSD	99.592	44.53	4.46	18.38	E	C	LP	P
UPA	101.514	86.19	4.45	18.33	E	C	LP	Pdf
BUL	124.293	210.36	1.87	7.59	I	D	SP	PKP
NAI	134.847	233.15	1.82	7.40	E	C	LP	PKP
NUR	145.743	340.41	1.66	6.75	I	C	LP	PKP
BNG	150.492	214.66	1.56	6.33	I	C	SP	PKP
COP	153.049	347.21	1.46	5.93	E	C	LP	PKP
DBN	157.535	355.24	1.26	5.11	I	C	LP	PKP
STU	160.242	346.27	1.17	4.73	E	C	LP	PKP
ATH	160.376	300.46	1.17	4.73	I	C	SP	PKP
PTO	165.602	34.81	0.85	3.46	I	C	LP	PKP

Table 175. Station data for event 184.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	17.529	266.53	12.47	61.07	I	C	SP	P
NOU	19.619	252.67	10.58	47.95	I	C	SP	P
CAN	37.848	234.60	8.38	36.02	I	C	SP	P
CTAO	38.308	259.63	8.35	35.88	E	C	LP	P
CTA	38.308	259.63	8.35	35.88	I	C	SP	P
HON	41.412	21.82	8.18	35.04	E	C	LP	P
ADE	45.955	238.11	7.93	33.82	I	C	SP	P
WB2	49.472	258.51	7.70	32.71	I	C	SP	P
ASPA	49.577	253.61	7.70	32.71	I	C	SP	P
GUMO	51.580	304.13	7.54	31.95	E	C	LP	P
SBA	61.148	184.73	6.80	28.51	I	D	SP	P
MAT	70.618	320.26	6.03	25.04	I	C	SP	P
MAJO	70.618	320.26	6.03	25.04	E	C	LP	P
SPA	72.583	180.00	5.88	24.37	I	D	SP	P
PRI	72.962	42.29	5.85	24.24	I	C	SP	P
BKS	73.049	40.06	5.85	24.24	I	C	SP	P
FRI	74.088	42.07	5.78	23.93	I	C	SP	P
JAS	74.206	40.92	5.78	23.93	E	C	LP	P
JAS1	74.205	40.95	5.78	23.93	I	C	SP	P
ORV	74.551	39.08	5.75	23.80	I	C	SP	P
WDC	74.585	37.73	5.75	23.80	I	C	SP	P
MNA	75.934	41.64	5.64	23.32	I	C	SP	P
TATO	76.266	301.98	5.61	23.19	E	C	LP	P
COR	76.765	34.22	5.58	23.06	I	C	SP	P
KDC	76.957	11.28	5.58	23.06	I	C	SP	P
LON	78.974	33.25	5.45	22.49	E	C	LP	P
SIT	80.774	19.92	5.26	21.66	I	C	SP	P
PMR	81.171	11.43	5.26	21.66	I	C	SP	P
TTA	81.331	7.91	5.21	21.45	I	C	SP	P
PNL	81.715	16.63	5.21	21.45	I	C	SP	P
PNT	81.748	32.20	5.21	21.45	I	C	SP	P
ALQ	82.089	49.70	5.17	21.28	I	C	SP	P
ANMO	82.091	49.69	5.17	21.28	E	C	LP	P
NEW	82.402	34.06	5.14	21.15	I	C	SP	P
CCMT	82.875	38.52	5.11	21.02	I	C	SP	P
CLX	83.443	34.90	5.08	20.89	I	C	SP	P
LDM	83.485	34.62	5.08	20.89	I	C	SP	P
YKM	83.511	34.14	5.08	20.89	I	C	SP	P
LRM	83.621	37.92	5.08	20.89	I	C	SP	P
RXF	83.828	34.36	5.05	20.76	I	C	SP	P
LCCM	83.966	38.13	5.05	20.76	I	C	SP	P
COL	84.453	10.64	5.02	20.63	I	C	SP	P
FBA	84.453	10.64	5.02	20.63	I	C	SP	P
COL	84.453	10.64	5.02	20.63	E	C	LP	P
HRY	84.464	37.40	5.02	20.63	I	C	SP	P
SXM	84.528	38.11	5.02	20.63	I	C	SP	P
IMA	84.640	7.91	5.02	20.63	I	C	SP	P
MAW	85.821	198.62	4.90	20.11	I	C	SP	P
EDM	87.238	31.41	4.83	19.81	I	C	SP	P
RSSD	87.954	42.38	4.77	19.56	E	C	LP	P

Table 175. Station data for event 184 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality	Direction, and Source of Earth Motion	
PEL	90.686	125.03	4.70	19.26	I	C	SP P
RLO	91.085	52.42	4.69	19.22	I	C	SP P
KMI	92.026	295.57	4.67	19.13	I	C	LP P
LZH	94.553	306.26	4.60	18.83	I	C	SP P
RSON	97.025	38.91	4.53	18.54	E	C	LP P
RSCP	98.189	55.36	4.51	18.45	E	C	LP P
SEK	130.128	204.32	1.85	7.46	I	C	SP PKP
SWZ	132.028	202.52	1.84	7.42	I	C	SP PKP
NAI	144.950	240.83	1.68	6.79	I	C	SP PKP
MOX	146.731	354.29	1.64	6.61	E	C	LP PKP
TNS	147.357	357.92	1.64	6.61	I	C	SP PKP
KHC	147.991	351.46	1.62	6.51	I	C	SP PKP
WET	148.071	352.32	1.62	6.51	I	C	SP PKP
PSN	148.231	329.69	1.62	6.51	I	C	SP PKP
VKA	148.355	347.71	1.62	6.51	I	C	SP PKP
SOP	148.859	347.07	1.59	6.40	I	C	SP PKP
KMR	148.954	350.31	1.59	6.40	E	C	LP PKP
LOR	150.253	3.90	1.56	6.29	I	C	SP PKP
SSF	150.435	4.43	1.56	6.29	I	C	SP PKP
OGA	150.528	353.96	1.53	6.16	I	C	SP PKP
LBF	150.544	3.79	1.53	6.16	I	C	SP PKP
JER	150.583	304.17	1.53	6.16	I	C	SP PKP
BNT	150.785	325.48	1.53	6.16	I	C	SP PKP
TCF	151.085	6.45	1.53	6.16	I	C	SP PKP
KDZ	151.139	330.22	1.53	6.16	I	C	SP PKP
VTs	151.330	334.08	1.53	6.16	I	C	SP PKP
TIO	161.588	41.03	1.07	4.30	I	C	SP PKP
BNG	162.565	223.09	1.02	4.09	I	C	SP PKP

Table 176. Station data for event 185.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	3.758	319.57	6.39	138.67	I	C	SP	P
VUN	3.839	320.67	6.49	137.90	I	C	SP	P
PVC	12.425	283.01	9.67	88.47	I	C	SP	P
NOU	13.609	261.90	9.63	84.23	I	C	SP	P
BRS	26.498	250.58	8.68	63.79	I	D	SP	P
COO	27.834	244.04	8.61	62.87	I	D	SP	P
RIV	29.307	237.86	8.53	61.87	I	D	SP	P
RMQ	29.982	253.21	8.49	61.36	I	D	SP	P
CAN	31.465	236.17	8.41	60.40	I	D	SP	P
YOU	31.642	238.36	8.40	60.27	I	D	SP	P
WAM	31.837	234.66	8.39	60.12	I	D	SP	P
CTA	32.530	265.33	8.36	59.76	I	D	LP	P
CTAO	32.530	265.33	8.36	59.76	I	D	LP	P
PMG	34.573	284.31	8.25	58.47	I	D	LP	P
KVG	34.673	297.88	8.24	58.42	I	D	SP	P
TOO	34.856	233.90	8.24	58.36	I	D	SP	P
TAU	35.619	224.43	8.19	57.89	E	D	LP	P
STK	36.745	244.58	8.14	57.27	I	D	SP	P
BFD	36.993	235.68	8.13	57.18	I	D	SP	P
MDG	37.595	289.63	8.10	56.80	I	D	SP	P
MOM	37.796	295.47	8.09	56.73	I	D	SP	P
ISQ	38.671	262.78	8.04	56.23	I	D	SP	P
ASPA	43.513	257.37	7.78	53.52	I	D	SP	P
WB2	43.611	262.78	7.77	53.45	I	D	SP	P
HON	46.792	27.25	7.54	51.17	I	D	LP	P
MTN	48.255	271.35	7.43	50.14	I	D	SP	P
GUA	49.362	310.95	7.34	49.35	I	D	LP	P
GUMO	49.428	310.96	7.34	49.30	I	D	LP	P
GUMO	49.428	310.96	7.34	49.30	I	D	SP	P
KNA	49.691	266.85	7.32	49.14	I	D	SP	P
WBN	49.866	253.04	7.31	49.07	I	D	SP	P
KLK	53.923	246.65	7.03	46.56	I	D	SP	P
MBL	56.755	257.93	6.82	44.82	I	D	SP	P
MEK	56.951	251.30	6.80	44.69	I	D	SP	P
KLB	57.006	245.32	6.80	44.65	I	D	SP	P
SBA	57.306	183.56	6.78	44.45	I	C	LP	P
NWAO	57.322	243.70	6.77	44.44	I	D	SP	P
NWAO	57.322	243.70	6.77	44.44	E	D	LP	P
RKG	57.410	242.33	6.77	44.38	I	D	SP	P
BAL	58.013	246.36	6.72	43.99	I	D	SP	P
MUN	58.279	244.71	6.70	43.87	I	D	SP	P
MRWA	58.805	247.88	6.67	43.55	I	D	SP	P
NAU	60.410	255.37	6.54	42.50	I	D	SP	P
DAV	61.165	291.08	6.49	42.11	I	D	LP	P
MKS	61.609	275.53	6.45	41.82	I	D	SP	P
TRT	67.134	270.36	6.03	38.57	I	D	SP	P
KYS	68.025	324.70	5.97	38.09	I	D	SP	P
OYM	68.683	324.26	5.93	37.78	I	D	SP	P
TSK	68.807	325.38	5.91	37.68	I	D	SP	P
SRY	68.805	324.41	5.91	37.69	I	D	SP	P

Table 176. Station data for event 185 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SPA	69.121	180.00	5.89	37.52	I	C	SP	P
DDR	69.139	324.64	5.89	37.51	I	D	SP	P
BAG	69.979	297.31	5.84	37.14	I	D	LP	P
MAJO	70.075	324.40	5.83	37.09	I	D	LP	P
MAT	70.075	324.40	5.83	37.09	I	D	LP	P
AKI	71.470	327.80	5.74	36.41	I	D	SP	P
SHK	71.840	319.52	5.71	36.18	I	D	SP	P
SMY	73.666	355.62	5.60	35.37	I	D	SP	P
TATO	73.718	305.42	5.60	35.35	E	D	LP	P
ANP	73.809	305.61	5.59	35.31	I	D	LP	P
SSE	77.310	310.51	5.34	33.50	I	D	LP	P
SDN	77.655	10.69	5.31	33.26	I	D	SP	P
HKC	78.126	299.53	5.27	32.99	I	D	SP	P
GCC	78.829	43.16	5.20	32.53	I	D	SP	P
PCC	78.867	42.59	5.20	32.51	I	D	SP	P
PRI	79.163	44.54	5.18	32.37	I	D	SP	P
BRK	79.170	42.35	5.18	32.36	I	D	SP	P
BKS	79.188	42.36	5.18	32.35	I	D	SP	P
MHC	79.242	43.08	5.17	32.33	I	D	SP	P
KGM	79.253	276.34	5.17	32.34	I	D	SP	P
FRI	80.284	44.29	5.11	31.90	I	D	SP	P
JAS1	80.369	43.19	5.11	31.87	I	D	SP	P
JAS	80.369	43.16	5.11	31.87	I	D	LP	P
WDC	80.648	40.04	5.09	31.75	I	D	SP	P
MIN	81.070	40.67	5.07	31.57	I	D	SP	P
KDC	81.509	14.00	5.04	31.39	I	D	SP	P
MNA	82.117	43.81	5.00	31.14	I	D	SP	P
IPM	82.324	277.88	4.99	31.05	I	D	SP	P
COR	82.694	36.51	4.97	30.90	I	D	SP	P
SNG	83.665	280.14	4.89	30.33	I	D	LP	P
PHC	84.582	30.02	4.83	29.92	I	D	SP	P
LON	84.860	35.46	4.81	29.80	I	D	LP	P
TTA	85.599	10.32	4.77	29.51	I	D	SP	P
BJI	85.607	315.81	4.76	29.51	I	D	LP	P
PMR	85.721	13.81	4.76	29.47	I	D	SP	P
LOE	86.569	289.97	4.73	29.26	I	D	SP	P
PNL	86.649	18.91	4.73	29.24	I	D	SP	P
PNT	87.585	34.31	4.71	29.12	I	D	SP	P
NEW	88.319	36.12	4.70	29.07	I	D	SP	P
ALQ	88.433	51.62	4.70	29.07	I	D	LP	P
ANMO	88.435	51.62	4.70	29.07	I	D	LP	P
KMI	88.762	297.40	4.70	29.04	I	D	LP	P
IMA	88.897	10.04	4.69	29.02	I	D	SP	P
BDT	88.910	288.82	4.69	29.01	I	D	SP	P
FBA	88.931	12.77	4.69	29.01	I	D	SP	P
COL	88.931	12.77	4.69	29.01	I	D	SP	P
COL	88.931	12.77	4.69	29.01	I	D	LP	P
LHD	89.182	36.71	4.68	28.96	I	D	SP	P
LDM	89.424	36.63	4.67	28.88	I	D	SP	P
YKM	89.430	36.15	4.67	28.88	I	D	SP	P

Table 176. Station data for event 185 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CHG	89.553	290.24	4.67	28.85	I	D	LP	P
CHTO	89.553	290.24	4.67	28.85	I	D	LP	P
LRM	89.685	39.90	4.67	28.83	I	D	SP	P
RXF	89.756	36.36	4.66	28.83	I	D	SP	P
LZH	92.348	307.77	4.59	28.29	I	D	SP	P
SES	92.820	36.44	4.57	28.22	I	D	SP	P
EDM	93.033	33.27	4.57	28.18	I	D	SP	P
RSSD	94.153	44.22	4.54	27.97	I	D	LP	P
RSNT	97.352	24.99	4.46	27.48	I	D	LP	P
SHA	101.114	61.38	4.44	27.32	E	D	LP	Pdf
UPA	101.933	84.89	4.44	27.32	E	C	LP	Pdf
BOG	105.561	90.99	1.89	11.27	I	C	LP	PKP
NDI	111.470	293.52	1.89	11.26	I	D	SP	PKP
POO	111.979	282.16	1.89	11.25	J	D	SP	PKP
WES	116.702	52.22	1.88	11.18	E	D	LP	PKP
FRB	117.665	28.07	1.88	11.18	I	D	SP	PKP
SUR	123.641	200.13	1.87	11.12	I	D	SP	PKP
SEK	124.634	208.68	1.86	11.11	I	D	SP	PKP
EVA	125.500	211.18	1.86	11.10	J	D	SP	PKP
SWZ	126.630	207.19	1.86	11.08	I	D	SP	PKP
KEV	128.792	348.71	1.85	11.04	J	D	LP	PKP
BUL	131.000	215.22	1.84	10.98	I	D	SP	PKP
NUR	137.163	343.04	1.79	10.68	J	D	LP	PKP
NAI	138.582	242.09	1.78	10.58	J	D	LP	PKP
MUD	144.086	352.29	1.69	10.04	I	D	SP	PKP
COP	144.338	348.91	1.68	10.01	I	D	SP	PKP
COP	144.338	348.91	1.68	10.01	I	D	LP	PKP
EDI	144.998	4.13	1.67	9.92	I	D	SP	PKP
BRL	147.191	346.11	1.62	9.62	J	D	SP	PKP
BRN	147.259	346.17	1.61	9.61	I	D	SP	PKP
KRA	147.376	337.19	1.61	9.59	J	D	SP	PKP
JER	147.684	296.48	1.60	9.54	I	D	SP	PKP
KSP	147.897	341.68	1.60	9.51	I	D	SP	PKP
WIT	147.958	353.53	1.60	9.50	J	D	SP	PKP
PSN	148.038	321.26	1.59	9.48	I	D	SP	PKP
BRG	148.512	344.25	1.58	9.40	J	D	SP	PKP
WTS	148.748	353.09	1.57	9.36	J	D	SP	PKP
ISK	148.961	316.42	1.57	9.33	I	D	SP	PKP
PRU	149.162	342.87	1.56	9.29	I	D	SP	PKP
MOX	149.270	346.75	1.56	9.27	I	D	LP	PKP
HOF	149.525	346.22	1.55	9.23	J	D	SP	PKP
BUD	149.839	335.33	1.54	9.18	J	D	SP	PKP
ZST	149.949	338.27	1.54	9.16	I	D	SP	PKP
GSH	150.037	353.18	1.54	9.14	I	D	SP	PKP
PVL	150.095	323.08	1.54	9.13	I	D	SP	PKP
VKA	150.155	339.25	1.53	9.12	I	D	SP	PKP
KHC	150.204	343.29	1.53	9.11	I	D	SP	PKP
WET	150.374	344.15	1.53	9.08	I	D	SP	PKP
DIM	150.549	320.96	1.52	9.04	I	D	SP	PKP
KMR	151.023	341.69	1.51	8.95	I	D	LP	PKP

Table 176. Station data for event 185 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HLW	151.302	294.02	1.50	8.90	I	D	SP	PKP
STU	151.538	348.61	1.49	8.85	I	D	LP	PKP
FUR	151.678	345.45	1.48	8.82	I	D	SP	PKP
KBA	152.136	341.81	1.47	8.73	I	D	SP	PKP
CDF	152.204	351.04	1.47	8.71	I	D	SP	PKP
FLN	152.286	2.14	1.46	8.70	I	D	SP	PKP
LDF	152.466	1.64	1.46	8.66	I	D	SP	PKP
GRR	152.645	2.72	1.45	8.62	I	D	SP	PKP
HAU	152.729	352.18	1.45	8.60	I	D	SP	PKP
BSF	152.840	351.46	1.44	8.58	I	D	SP	PKP
VOY	152.908	340.07	1.44	8.56	I	D	SP	PKP
OGA	152.953	344.80	1.44	8.55	I	D	SP	PKP
LPF	152.993	3.05	1.44	8.54	I	D	SP	PKP
LOR	153.707	355.63	1.41	8.39	I	D	SP	PKP
SSF	153.936	356.13	1.40	8.33	I	D	SP	PKP
LBF	153.980	355.38	1.40	8.32	I	D	SP	PKP
AVF	154.216	356.31	1.39	8.27	I	D	SP	PKP
SMF	154.328	355.51	1.39	8.25	I	D	SP	PKP
MFF	154.457	1.86	1.38	8.22	I	D	SP	PKP
BGF	154.475	357.07	1.38	8.21	I	D	SP	PKP
TCF	154.770	358.06	1.37	8.15	I	D	SP	PKP
MZF	154.828	357.44	1.37	8.13	I	D	SP	PKP
LSF	154.823	359.17	1.37	8.13	I	D	SP	PKP
PLDF	155.016	355.70	1.36	8.09	I	D	SP	PKP
LPG	155.127	350.38	1.36	8.06	I	D	SP	PKP
PYM	155.272	356.67	1.35	8.03	I	D	SP	PKP
SSB	155.624	353.97	1.34	7.94	I	D	SP	PKP
RJF	155.769	359.14	1.33	7.91	I	D	SP	PKP
LFF	156.136	0.49	1.32	7.81	I	D	SP	PKP
CAF	156.135	358.16	1.32	7.81	I	D	SP	PKP
BNG	156.305	228.35	1.31	7.77	I	D	SP	PKP
LPO	156.393	359.70	1.30	7.75	I	D	SP	PKP
FRF	157.030	349.47	1.28	7.58	I	D	SP	PKP
LRG	157.181	349.93	1.27	7.54	I	D	SP	PKP
LMR	157.274	349.59	1.27	7.52	I	D	SP	PKP
CVF	157.518	344.70	1.26	7.46	I	D	SP	PKP
EPF	158.038	1.33	1.23	7.32	I	D	SP	PKP
PTO	158.339	20.00	1.22	7.24	I	D	SP	PKP
PTO	158.339	20.00	1.22	7.24	I	D	LP	PKP
LIS	160.301	24.19	1.13	6.69	I	D	SP	PKP
TOL	160.699	11.87	1.11	6.58	I	D	LP	PKP
MBO	161.663	108.11	1.06	6.29	I	D	SP	PKP
MAL	163.641	15.66	0.96	5.68	I	D	SP	PKP
KIC	164.405	158.22	0.92	5.44	I	D	SP	PKP
AVE	165.654	29.71	0.85	5.04	I	D	SP	PKP
IFR	166.404	22.37	0.81	4.80	I	D	SP	PKP

Table 177. Station data for event 190.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	5.761	279.98	12.51	100.17	I	C	SP	P
VUN	5.779	281.05	12.51	100.08	I	C	SP	P
SGE	6.380	283.65	12.60	97.33	I	D	SP	P
MGO	6.499	281.54	12.62	96.80	I	D	SP	P
YSA	6.984	289.96	12.66	94.71	I	C	SP	P
PVC	15.357	272.89	12.06	71.62	I	D	SP	P
NOU	17.089	256.52	10.55	56.14	I	D	SP	P
KOU	18.992	262.56	10.11	52.72	I	D	SP	P
BRS	30.121	248.39	8.76	43.61	I	D	SP	P
COO	31.495	242.60	8.67	43.04	I	D	SP	P
RMQ	33.577	250.90	8.55	42.27	I	D	SP	P
CAN	35.116	235.50	8.46	41.72	I	D	SP	P
CTA	35.907	262.07	8.41	41.43	I	D	LP	P
CTAO	35.907	262.07	8.41	41.43	E	D	LP	P
CTA	35.907	262.07	8.41	41.43	I	D	SP	P
CMS	36.774	242.91	8.36	41.16	I	D	SP	P
PMG	37.331	279.82	8.33	40.97	I	D	SP	P
TOO	38.491	233.35	8.26	40.56	I	D	SP	P
TAU	39.135	224.61	8.23	40.34	I	D	SP	P
STK	40.404	243.17	8.16	39.93	I	D	SP	P
BFD	40.641	234.96	8.14	39.87	I	D	SP	P
ISQ	42.101	260.10	8.07	39.41	I	D	SP	P
ADE	43.237	239.13	8.01	39.06	I	D	SP	P
HON	43.798	23.99	7.98	38.91	E	D	LP	P
ASPA	47.045	255.24	7.79	37.80	I	D	SP	P
KNA	53.017	264.46	7.31	35.12	I	D	SP	P
SBA	59.307	184.29	6.85	32.61	I	C	SP	P
MBL	60.274	256.14	6.77	32.19	I	D	SP	P
KLB	60.662	244.01	6.74	32.03	I	D	SP	P
NWAO	60.983	242.45	6.71	31.89	I	D	SP	P
NWAO	60.983	242.45	6.71	31.89	E	D	LP	P
RKG	61.074	241.13	6.71	31.85	I	D	SP	P
BAL	61.664	245.02	6.66	31.60	I	D	SP	P
MUN	61.938	243.42	6.64	31.48	I	D	SP	P
MRWA	62.447	246.49	6.60	31.27	I	D	SP	P
NAU	63.970	253.75	6.47	30.63	I	D	SP	P
CNP	66.774	293.35	6.24	29.41	I	D	SP	P
OYM	69.185	321.69	6.06	28.47	I	D	SP	P
TSK	69.238	322.82	6.05	28.45	I	D	SP	P
SRY	69.297	321.86	6.05	28.42	I	D	SP	P
DDR	69.616	322.11	6.02	28.29	I	D	SP	P
MAJO	70.565	321.93	5.96	27.96	E	D	LP	P
SPA	70.907	180.00	5.93	27.81	I	C	SP	P
SHK	72.632	317.21	5.81	27.22	I	D	SP	P
TATO	75.351	303.35	5.63	26.30	E	D	LP	P
BKS	75.727	40.92	5.61	26.18	I	D	SP	P
JAS1	76.891	41.79	5.53	25.79	I	D	SP	P
WDC	77.239	38.61	5.51	25.68	I	D	SP	P
CLC	77.484	44.90	5.49	25.61	I	D	SP	P
MNA	78.626	42.46	5.41	25.21	I	D	SP	P

Table 177. Station data for event 190 .. continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KGM	82.264	274.84	5.10	23.69	I	D	SP	P
PNT	84.325	33.02	4.98	23.09	I	D	SP	P
ALQ	84.822	50.42	4.95	22.91	I	D	SP	P
NEW	85.007	34.87	4.93	22.84	I	D	SP	P
LHD	85.854	35.48	4.85	22.45	I	D	SP	P
CLX	86.060	35.68	4.84	22.37	I	D	SP	P
LDM	86.098	35.41	4.83	22.36	I	D	SP	P
YKM	86.117	34.92	4.83	22.35	I	D	SP	P
RXF	86.437	35.14	4.81	22.27	I	D	SP	P
COL	86.513	11.49	4.81	22.24	I	D	SP	P
PSI	86.630	274.01	4.80	22.21	I	D	SP	P
NNT	89.167	283.54	4.71	21.74	I	D	SP	P
SES	89.498	35.30	4.70	21.71	I	D	SP	P
EDM	89.801	32.15	4.70	21.72	I	D	SP	P
NST	89.842	286.56	4.70	21.72	I	D	SP	P
RSSD	90.652	43.10	4.69	21.65	E	D	LP	P
CHG	91.966	289.12	4.65	21.47	I	D	SP	P
CHTO	91.966	289.12	4.65	21.47	E	D	LP	P
INK	92.450	14.44	4.64	21.43	I	D	SP	P
RSNT	94.400	24.05	4.57	21.10	E	D	LP	P
POO	114.734	282.04	1.88	8.52	I	D	SP	PKP
BLF	127.570	204.17	1.86	8.41	I	C	SP	PKP
SEK	127.691	206.04	1.86	8.41	I	D	SP	PKP
PRY	128.979	206.72	1.85	8.39	I	D	SP	PKP
BHD	141.759	299.62	1.74	7.86	I	D	SP	PKP
NAI	142.245	240.98	1.73	7.83	I	D	SP	PKP
RTB	145.150	300.49	1.68	7.58	I	C	SP	PKP
HAM	145.553	354.18	1.67	7.54	I	D	SP	PKP
WIT	146.425	357.54	1.65	7.45	I	D	SP	PKP
KRA	146.830	341.63	1.64	7.41	I	D	SP	PKP
CLI	146.900	330.59	1.64	7.40	I	D	SP	PKP
PPE	146.989	329.87	1.63	7.39	I	C	SP	PKP
CFR	147.469	328.04	1.62	7.34	I	D	SP	PKP
BRG	147.522	348.74	1.62	7.33	I	D	SP	PKP
LWI	147.931	230.97	1.61	7.28	I	D	SP	PKP
TLB	147.949	327.36	1.61	7.28	I	D	SP	PKP
BNS	148.248	356.69	1.60	7.25	I	D	SP	PKP
ISR	148.291	329.53	1.60	7.24	I	D	SP	PKP
MLR	148.311	330.58	1.60	7.24	I	D	SP	PKP
MSR	148.400	332.39	1.60	7.23	I	D	SP	PKP
HOF	148.410	350.86	1.60	7.23	I	D	SP	PKP
STB	148.633	357.04	1.59	7.20	I	D	SP	PKP
TNS	148.898	354.99	1.58	7.17	I	D	SP	PKP
BGG	148.995	356.36	1.58	7.15	I	D	SP	PKP
KHC	149.260	348.20	1.57	7.12	I	D	SP	PKP
WET	149.376	349.07	1.57	7.10	I	C	SP	PKP
BUD	149.391	340.38	1.57	7.10	I	D	SP	PKP
HRT	149.510	320.36	1.57	7.09	I	D	SP	PKP
KMR	150.171	346.85	1.55	7.00	I	D	LP	PKP
PVL	150.425	328.31	1.54	6.96	I	C	SP	PKP

Table 177. Station data for event 190 ... continued.

Station	Distance (°)	Azimuth (°)	$dt/d\Delta$ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
EDC	150.881	321.33	1.53	6.90	I	D	SP	PKP
KGT	151.142	322.07	1.52	6.86	I	D	SP	PKP
KBA	151.267	347.26	1.51	6.84	I	D	SP	PKP
SLE	151.332	354.27	1.51	6.83	E	C	LP	PKP
KDZ	151.420	325.97	1.51	6.82	I	D	SP	PKP
PLD	151.422	327.37	1.51	6.82	I	D	SP	PKP
VTG	151.793	329.81	1.50	6.76	I	D	SP	PKP
OGA	151.896	350.36	1.49	6.75	I	D	SP	PKP
GRC	151.973	1.96	1.49	6.73	I	D	SP	PKP
OSS	152.203	351.54	1.48	6.70	E	C	LP	PKP
MMB	152.296	327.76	1.48	6.69	I	C	SP	PKP
MMK	153.080	354.55	1.45	6.56	E	C	LP	PKP
BNG	159.858	224.95	1.17	5.27	I	D	SP	PKP
IFR	163.400	29.03	0.99	4.46	I	D	SP	PKP

Table 178. Station data for event 191.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VUN	7.413	259.33	13.76	81.43	I	D	SP	P
SGE	7.877	262.88	13.72	80.48	I	D	SP	P
NOU	19.332	250.32	10.46	48.75	I	D	SP	P
KOU	21.027	256.29	10.06	46.30	I	D	SP	P
BRS	32.563	245.24	8.68	38.61	I	C	SP	P
COO	34.079	239.97	8.59	38.14	I	D	SP	P
CTAO	37.905	258.72	8.36	36.95	E	D	LP	P
CMS	39.347	240.62	8.29	36.55	I	D	SP	P
HON	40.925	22.91	8.20	36.12	E	C	LP	P
TOO	41.252	231.70	8.18	36.02	I	D	SP	P
TAU	42.005	223.47	8.14	35.79	E	D	LP	P
STK	42.968	241.08	8.09	35.55	I	D	SP	P
ADE	45.889	237.37	7.92	34.72	I	D	SP	P
WRA	49.094	257.94	7.71	33.65	I	D	SP	P
SBA	61.855	184.57	6.71	28.83	I	D	SP	P
MBL	62.451	254.56	6.66	28.60	I	D	SP	P
NWAO	63.554	241.20	6.57	28.19	E	D	LP	P
CGP	65.705	287.60	6.40	27.39	I	C	SP	P
MAJO	69.683	320.41	6.07	25.88	E	D	LP	P
BKS	72.832	40.51	5.85	24.86	I	C	SP	P
RVR	73.755	46.20	5.78	24.56	I	C	LP	P
PLM	73.761	47.00	5.78	24.56	I	C	LP	P
SBB	73.833	45.38	5.78	24.54	I	C	LP	P
JAS	74.002	41.35	5.77	24.49	E	C	LP	P
CLC	74.621	44.52	5.72	24.28	I	C	LP	P
TATO	75.396	302.06	5.68	24.07	E	D	LP	P
LON	78.650	33.59	5.46	23.10	E	C	LP	P
OXM	81.238	66.86	5.23	22.06	I	C	SP	P
TPM	81.679	67.37	5.18	21.87	I	C	SP	P
ANMO	82.028	49.99	5.16	21.75	E	C	LP	P
CLX	83.143	35.17	5.10	21.50	I	C	SP	P
LDM	83.181	34.90	5.10	21.49	I	C	SP	P
YKM	83.199	34.41	5.10	21.48	I	C	SP	P
LRM	83.369	38.19	5.08	21.41	I	C	SP	P
RXF	83.520	34.63	5.07	21.36	I	C	SP	P
COL	83.815	10.88	5.05	21.28	E	C	LP	P
RSSD	87.772	42.58	4.78	20.09	E	C	LP	P
RSNT	91.524	23.55	4.68	19.65	E	C	LP	P
PEL	91.574	125.20	4.68	19.65	I	D	SP	P
CHG	92.705	288.71	4.64	19.50	I	D	SP	P
CHTO	92.705	288.71	4.64	19.50	E	D	LP	P
RSON	96.787	38.97	4.53	19.00	E	C	LP	P
RSCP	98.216	55.39	4.49	18.84	E	C	LP	P
ZOBO	99.790	110.27	4.45	18.67	E	D	LP	P
NAI	144.821	242.32	1.69	6.96	I	D	SP	PKP
NAI	144.821	242.32	1.69	6.96	E	D	LP	PKP
WTS	144.854	359.26	1.69	6.96	I	D	SP	PKP
KSP	145.046	348.73	1.68	6.94	I	D	SP	PKP
BNS	145.881	358.81	1.66	6.87	I	D	SP	PKP
HOF	146.222	353.36	1.66	6.84	I	D	SP	PKP

Table 178. Station data for event 191 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
STB	146.256	359.17	1.66	6.84	I	D	SP	PKP
BGG	146.636	358.58	1.65	6.80	I	D	SP	PKP
MLR	146.906	334.09	1.64	6.77	I	D	SP	PKP
ISR	146.932	333.08	1.64	6.77	I	D	SP	PKP
KHC	147.160	350.95	1.63	6.75	I	D	SP	PKP
PSN	147.299	329.70	1.63	6.73	I	D	SP	PKP
SOP	147.998	346.64	1.61	6.66	I	D	SP	PKP
KMR	148.115	349.80	1.61	6.65	I	D	LP	PKP
PVL	149.112	332.26	1.58	6.54	I	D	SP	PKP
KBA	149.194	350.34	1.58	6.53	I	D	SP	PKP
GRC	149.460	4.08	1.57	6.50	I	D	SP	PKP
OGA	149.717	353.32	1.57	6.47	I	D	SP	PKP
KDZ	150.208	330.20	1.55	6.41	I	D	SP	PKP
VTS	150.408	333.95	1.55	6.38	I	D	SP	PKP
MMB	150.999	332.09	1.53	6.30	I	D	SP	PKP
IFR	160.491	29.21	1.14	4.71	I	D	SP	PKP

Table 179. Station data for event 195.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CRZ	7.153	269.63	13.94	80.45	I	D	SP	P
VUN	16.814	350.48	12.52	62.34	I	D	SP	P
DZM	18.137	309.99	12.32	60.64	I	D	SP	P
YSA	18.237	348.39	12.32	60.64	I	D	SP	P
PVC	20.500	322.14	10.26	46.54	I	C	SP	P
KOU	20.612	308.64	10.26	46.54	I	C	SP	P
AFI	21.605	18.41	10.02	45.14	I	C	SP	P
RJV	24.924	263.33	9.46	42.01	I	C	SP	P
MCQ	25.227	211.42	9.46	42.01	I	D	SP	P
WAM	26.427	257.32	9.32	41.25	I	C	SP	P
CAN	26.443	259.28	9.32	41.25	I	C	SP	P
TAU	27.611	242.51	9.22	40.71	I	C	SP	P
BFD	31.370	254.05	8.78	38.40	I	C	SP	P
HNR	31.871	317.02	8.74	38.19	I	C	LP	P
STK	33.204	263.45	8.67	37.83	I	C	SP	P
CTAO	34.191	285.95	8.61	37.52	I	C	LP	P
CTA	34.191	285.95	8.61	37.52	I	C	LP	P
CTA	34.191	285.95	8.61	37.52	I	C	SP	P
ADE	34.806	257.07	8.55	37.22	I	D	SP	P
PAA	36.974	313.89	8.44	36.66	I	D	SP	P
ISQ	39.254	279.62	8.29	35.91	I	C	SP	P
PMG	40.130	300.65	8.26	35.76	I	C	SP	P
PMG	40.130	300.65	8.26	35.76	I	C	LP	P
SBA	43.729	184.43	8.07	34.81	I	C	LP	P
SBA	43.729	184.43	8.07	34.81	I	C	SP	P
MTN	50.250	282.89	7.61	32.57	I	C	SP	P
KNA	50.580	278.13	7.61	32.57	I	C	SP	P
NWAO	52.477	252.56	7.45	31.80	I	C	SP	P
NWAO	52.477	252.56	7.45	31.80	E	C	LP	P
KLB	52.543	254.33	7.45	31.80	I	C	SP	P
MUN	53.629	253.27	7.37	31.42	I	C	SP	P
BAL	53.750	255.04	7.37	31.42	I	C	SP	P
MEK	53.870	260.36	7.33	31.23	I	C	SP	P
MRWA	54.861	256.31	7.25	30.86	I	C	SP	P
MBL	55.238	266.97	7.25	30.86	I	C	SP	P
SPA	55.492	180.00	7.21	30.67	I	C	LP	P
HON	59.054	22.54	6.95	29.45	I	C	LP	P
GUA	59.132	317.71	6.95	29.45	I	C	LP	P
GUMO	59.198	317.70	6.95	29.45	I	C	LP	P
MKS	64.021	282.30	6.55	27.60	I	C	SP	P
DAV	67.007	296.95	6.30	26.47	I	C	SP	P
DAV	67.007	296.95	6.30	26.47	I	C	LP	P
MAW	68.118	201.29	6.22	26.10	I	C	SP	P
TRT	68.162	275.82	6.22	26.10	I	C	SP	P
BKB	68.412	284.10	6.18	25.92	I	C	SP	P
LEM	72.772	273.62	5.85	24.45	I	C	LP	P
SNA	75.269	178.72	5.67	23.65	I	C	SP	P
BAG	76.865	300.68	5.58	23.25	I	C	SP	P
BAG	76.865	300.68	5.58	23.25	I	C	LP	P
MAT	81.460	326.16	5.21	21.63	I	C	LP	P

Table 179. Station data for event 195 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MAT	81.460	326.16	5.21	21.63	I	C	SP	P
TATO	82.083	307.59	5.17	21.45	I	C	LP	P
ANP	82.208	307.76	5.17	21.45	I	C	LP	P
SHK	82.548	321.30	5.14	21.32	I	C	SP	P
PSI	85.289	276.52	4.96	20.54	I	C	SP	P
SNG	86.477	281.14	4.86	20.11	I	C	SP	P
SNG	86.477	281.14	4.86	20.11	I	C	LP	P
SSE	86.521	311.80	4.86	20.11	I	C	LP	P
SEO	87.850	319.73	4.77	19.72	I	C	LP	P
SYP	88.045	44.89	4.77	19.72	I	C	LP	P
BAR	88.736	48.14	4.75	19.63	I	C	LP	P
PRI	88.799	43.36	4.73	19.55	I	C	SP	P
PCC	88.824	41.43	4.73	19.55	I	C	SP	P
PAS	88.842	46.21	4.73	19.55	I	C	LP	P
MWC	88.963	46.22	4.73	19.55	I	C	LP	P
PLM	89.082	47.54	4.73	19.55	I	C	LP	P
BRK	89.161	41.24	4.73	19.55	I	C	SP	P
SBB	89.423	46.02	4.71	19.46	I	C	LP	P
ISA	89.720	44.96	4.71	19.46	I	C	LP	P
FRI	89.944	43.31	4.71	19.46	I	C	SP	P
PCT	90.186	287.66	4.71	19.46	I	C	SP	P
JAS1	90.209	42.25	4.71	19.46	I	C	SP	P
JAS	90.213	42.23	4.71	19.46	I	C	LP	P
CLC	90.338	45.34	4.70	19.42	I	C	LP	P
GSC	90.451	46.16	4.70	19.42	I	C	LP	P
CYA	90.776	125.75	4.69	19.38	I	C	SP	P
ORV	90.788	40.51	4.69	19.38	I	C	SP	P
WDC	90.981	39.23	4.69	19.38	I	C	SP	P
LPA	91.337	135.03	4.68	19.33	I	C	LP	P
NST	91.763	287.74	4.67	19.29	I	C	SP	P
MNA	91.830	43.15	4.67	19.29	I	C	SP	P
OXM	92.128	68.08	4.67	19.29	I	C	SP	P
FSA	92.156	123.84	4.67	19.29	I	C	SP	P
KHT	92.468	286.16	4.66	19.25	I	C	SP	P
BDT	93.551	288.39	4.63	19.12	I	C	SP	P
ARE	94.234	113.17	4.61	19.03	I	C	SP	P
CHG	94.493	289.64	4.59	18.95	I	C	SP	P
CHTO	94.493	289.64	4.59	18.95	I	C	LP	P
CHG	94.493	289.64	4.59	18.95	I	C	LP	P
KMI	95.254	296.82	4.56	18.82	I	C	LP	P
KMI	95.254	296.82	4.56	18.82	I	C	SP	P
TPZ	95.343	120.51	4.56	18.82	I	C	SP	P
BJI	95.583	315.56	4.56	18.82	E	C	LP	P
LON	95.819	35.36	4.55	18.78	I	C	LP	P
ANMO	96.664	51.96	4.54	18.73	I	C	LP	P
LPB	96.740	115.26	4.54	18.73	E	C	LP	P
ZOBO	96.886	115.04	4.53	18.69	I	D	SP	P
ZOBO	96.886	115.04	4.53	18.69	I	C	LP	P
LZH	100.818	306.37	4.45	18.35	I	C	SP	Pdf
UPA	102.528	87.71	4.45	18.35	E	C	LP	Pdf

Table 179. Station data for event 195 ... continued

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TUL	104.339	56.25	4.45	18.35	E	C	LP	Pdī
SUR	110.826	197.56	1.89	7.68	I	C	LP	PKP
MBC	116.701	13.32	1.88	7.63	I	C	SP	PKP
BUL	119.625	209.69	1.87	7.61	I	C	SP	PKP
ALE	127.559	8.54	1.86	7.55	I	C	SP	PKP
NAI	131.188	230.42	1.85	7.51	I	D	SP	PKP
LWI	135.130	220.77	1.82	7.40	I	C	SP	PKP
ARO	135.835	248.78	1.81	7.36	I	C	LP	PKP
BNG	145.931	211.76	1.66	6.76	I	C	SP	PKP
AKU	146.869	14.61	1.64	6.66	I	C	SP	PKP
NUR	150.089	336.88	1.56	6.33	I	C	LP	PKP
UPP	152.661	342.05	1.46	5.94	I	C	SP	PKP
MBO	153.902	136.24	1.42	5.79	I	C	SP	PKP
HLW	154.233	267.61	1.42	5.79	I	C	SP	PKP
KONO	154.450	350.27	1.42	5.79	I	C	LP	PKP
WAR	157.503	327.23	1.26	5.11	E	C	LP	PKP
COP	157.657	343.35	1.26	5.11	I	C	SP	PKP
COP	157.657	343.35	1.26	5.11	I	C	LP	PKP
EAB	158.152	8.56	1.26	5.11	I	C	SP	PKP
EBH	158.187	7.30	1.26	5.11	I	C	SP	PKP
EAU	158.590	7.43	1.22	4.93	I	C	SP	PKP
BUC	158.657	304.46	1.22	4.93	I	C	SP	PKP
EBL	158.703	6.84	1.22	4.93	I	C	SP	PKP
PVL	159.678	301.63	1.17	4.74	I	C	SP	PKP
KDZ	159.926	297.32	1.17	4.74	I	C	SP	PKP
BRN	160.354	338.01	1.17	4.74	I	C	SP	PKP
KSP	160.543	330.59	1.12	4.54	I	C	SP	PKP
MMB	161.122	298.00	1.12	4.54	I	C	SP	PKP
ETA	161.213	14.39	1.12	4.54	I	C	SP	PKP
ECB	161.400	15.77	1.12	4.54	I	C	SP	PKP
BRG	161.415	334.29	1.12	4.54	I	C	SP	PKP
WIT	161.492	349.78	1.12	4.54	I	C	SP	PKP
BUD	161.592	319.28	1.07	4.33	I	C	SP	PKP
ECP	161.664	15.23	1.07	4.33	I	C	SP	PKP
ATH	161.685	286.79	1.07	4.33	I	C	SP	PKP
VAY	162.032	297.86	1.07	4.33	I	C	SP	PKP
WTS	162.264	348.85	1.07	4.33	I	C	SP	PKP
MOX	162.387	337.96	1.07	4.33	I	C	LP	PKP
MOX	162.387	337.96	1.07	4.33	I	C	SP	PKP
DBN	162.382	352.17	1.07	4.33	I	C	LP	PKP
VKA	162.444	325.08	1.07	4.33	I	C	SP	PKP
SKO	162.660	300.71	1.02	4.12	I	C	SP	PKP
SOP	162.734	323.31	1.02	4.12	I	C	SP	PKP
KHC	162.974	331.61	1.02	4.12	I	C	SP	PKP
BNS	163.195	347.16	1.02	4.12	I	C	SP	PKP
GRF	163.344	337.12	1.02	4.12	I	C	SP	PKP
OHR	163.375	298.39	1.02	4.12	I	C	SP	PKP
KMR	163.588	328.29	0.96	3.91	I	C	LP	PKP
STB	163.609	347.51	0.96	3.91	I	C	SP	PKP
KLL	163.650	348.71	0.96	3.91	I	C	SP	PKP

Table 179. Station data for event 195 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
UCC	163.755	353.15	0.96	3.91	E	C	LP	PKP
ZAG	164.269	319.31	0.96	3.91	I	C	SP	PKP
DOU	164.424	352.18	0.96	3.91	E	C	LP	PKP
KBA	164.680	327.46	0.91	3.69	I	C	SP	PKP
OGA	165.813	331.91	0.85	3.46	I	C	SP	PKP
FLN	165.877	4.96	0.85	3.46	I	C	SP	PKP
LDF	166.068	4.05	0.85	3.46	I	C	SP	PKP
SAX	166.086	336.77	0.85	3.46	E	C	LP	PKP
ZUL	166.172	339.62	0.85	3.46	E	C	LP	PKP
HAU	166.184	345.80	0.85	3.46	I	C	SP	PKP
GRR	166.218	6.17	0.85	3.46	I	C	SP	PKP
OSS	166.297	333.60	0.85	3.46	E	C	LP	PKP
LLS	166.535	336.89	0.80	3.23	E	C	LP	PKP
LPF	166.555	6.90	0.80	3.23	I	C	SP	PKP
TMA	167.246	335.61	0.80	3.23	E	C	LP	PKP
LOR	167.295	352.19	0.80	3.23	I	C	SP	PKP
SSF	167.537	353.14	0.74	3.00	I	C	SP	PKP
MMK	167.589	338.06	0.74	3.00	E	C	LP	PKP
DIX	167.727	339.75	0.74	3.00	E	C	LP	PKP
AVF	167.820	353.44	0.74	3.00	I	C	SP	PKP
EMS	167.869	341.18	0.74	3.00	E	C	LP	PKP
SMF	167.912	351.76	0.74	3.00	I	C	SP	PKP
MFF	168.050	4.97	0.74	3.00	I	C	SP	PKP
LPG	168.445	340.67	0.74	3.00	I	C	SP	PKP
MZF	168.452	355.70	0.74	3.00	I	C	SP	PKP
PLDF	168.604	351.94	0.68	2.76	I	C	SP	PKP
PYM	168.883	353.95	0.68	2.76	I	C	SP	PKP
SSB	169.147	347.92	0.68	2.76	I	C	SP	PKP
RJF	169.401	359.34	0.68	2.76	I	C	SP	PKP
LFF	169.756	2.41	0.62	2.52	I	C	SP	PKP
PTO	169.848	47.75	0.62	2.52	I	C	SP	PKP
LPO	170.022	0.65	0.62	2.52	I	C	SP	PKP
FRF	170.237	336.66	0.62	2.52	I	C	SP	PKP
LMR	170.484	336.58	0.62	2.52	I	C	SP	PKP
LIS	170.667	61.48	0.56	2.27	I	C	SP	PKP
EPF	171.638	5.07	0.50	2.03	I	C	SP	PKP
MLS	171.745	1.33	0.50	2.03	I	C	SP	PKP
AVE	172.595	98.36	0.44	1.78	I	C	SP	PKP
TOL	173.271	38.11	0.44	1.78	I	C	LP	PKP
IFR	174.505	100.51	0.31	1.28	I	C	SP	PKP
ALI	176.059	21.44	0.25	1.02	I	C	LP	PKP

Table 180. Station data for event 197.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	16.651	282.31	12.68	48.17	I	C	SP	P
NOU	17.540	265.96	12.48	47.17	I	C	SP	P
DZM	17.561	266.75	12.48	47.17	I	C	SP	P
KOU	19.729	270.74	10.59	38.48	I	C	SP	P
HNR	27.509	293.39	9.23	32.84	E	C	LP	P
BRS	30.016	253.37	8.91	31.57	I	C	SP	P
CTA	36.502	265.86	8.47	29.85	I	C	LP	P
CTA	36.502	265.86	8.47	29.85	I	C	SP	P
CTAO	36.502	265.86	8.47	29.85	I	C	LP	P
TAU	37.754	227.73	8.38	29.50	E	C	LP	P
HON	46.155	21.67	7.94	27.81	E	C	LP	P
ASPA	47.242	257.75	7.88	27.58	I	C	SP	P
WB2	47.507	262.80	7.85	27.47	I	C	SP	P
GUA	53.239	307.99	7.42	25.85	I	C	LP	P
GUMO	53.305	308.00	7.38	25.70	I	C	LP	P
NWAO	60.464	243.81	6.84	23.70	I	C	LP	P
DAV	65.385	289.32	6.43	22.20	I	C	LP	P
SPA	67.967	180.00	6.22	21.44	I	D	SP	P
MAT	73.440	321.95	5.82	20.00	I	C	LP	P
BAG	74.139	295.46	5.78	19.85	E	C	LP	P
LEM	76.162	268.20	5.64	19.35	I	C	LP	P
TATO	77.728	303.47	5.55	19.03	I	C	LP	P
ANP	77.814	303.67	5.52	18.93	I	C	LP	P
JAS	78.501	40.85	5.48	18.78	E	N	LP	P
COR	81.272	34.35	5.22	17.86	I	C	SP	P
LON	83.506	33.45	5.08	17.37	E	N	LP	P
ANMO	86.012	49.85	4.90	16.73	E	N	LP	P
PEL	89.026	125.46	4.73	16.14	E	C	LP	P
KMI	92.919	295.81	4.64	15.82	E	C	LP	P
CHG	93.777	288.65	4.61	15.72	I	C	LP	P
CHG	93.777	288.65	4.61	15.72	I	C	SP	P
CHTO	93.777	288.65	4.61	15.72	I	C	LP	P
RSNT	96.717	23.90	4.54	15.47	E	C	LP	P
LPB	98.428	111.61	4.49	15.30	E	C	LP	P
ZOBO	98.521	111.36	4.49	15.30	I	D	LP	P
POO	116.198	280.41	1.88	6.34	I	C	LP	PKP
SUR	123.796	195.71	1.87	6.30	I	C	SP	PKP
DAG	124.048	6.53	1.87	6.30	I	C	SP	PKP
WIN	134.101	195.14	1.83	6.17	I	C	SP	PKP
NAI	141.504	236.83	1.74	5.86	E	C	LP	PKP
NAI	141.504	236.83	1.74	5.86	I	D	SP	PKP
BHD	143.943	296.42	1.70	5.75	I	D	SP	PKP
MUD	145.642	356.29	1.66	5.61	I	D	SP	PKP
COP	146.125	352.85	1.66	5.61	E	C	LP	PKP
LWI	146.668	226.25	1.64	5.53	I	C	SP	PKP
RTB	147.360	296.94	1.64	5.53	I	C	SP	PKP
UCC	151.417	1.37	1.53	5.15	E	D	LP	PKP
GZR	152.818	332.56	1.46	4.93	I	C	SP	PKP
KMR	153.240	346.92	1.46	4.93	I	C	LP	PKP
PVL	153.391	326.43	1.46	4.93	I	D	SP	PKP

Table 180. Station data for event 197 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KDZ	154.347	323.78	1.43	4.81	I	C	SP	PKP
VTS	154.780	328.00	1.39	4.67	I	C	SP	PKP
TRI	155.546	345.73	1.35	4.54	I	C	SP	PKP
SKO	156.105	329.41	1.35	4.54	I	C	SP	PKP
BNG	158.248	217.75	1.26	4.25	I	D	SP	PKP
TOL	160.603	22.34	1.12	3.77	I	C	LP	PKP
ALJ	163.097	16.09	1.02	3.43	I	C	LP	PKP
IFR	165.373	37.16	0.91	3.06	I	C	SP	PKP

Table 181. Station data for event 203.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SVA	6.030	305.23	13.35	91.82	I	C	SP	P
VUN	6.091	306.08	13.35	91.67	I	C	SP	P
PVC	14.952	282.56	12.50	69.40	I	D	SP	P
DZM	15.963	265.45	12.33	67.42	I	D	SP	P
BRS	28.595	252.35	8.96	42.14	I	D	SP	P
COO	29.760	246.08	8.85	41.49	I	D	SP	P
RMQ	32.136	254.47	8.68	40.54	I	D	SP	P
CAN	33.148	238.21	8.62	40.18	I	D	SP	P
WAM	33.470	236.73	8.60	40.08	I	D	SP	P
CTA	34.907	265.68	8.51	39.61	I	D	SP	P
CTAO	34.907	265.68	8.51	39.61	I	D	LP	P
CTA	34.907	265.68	8.51	39.61	I	D	LP	P
CMS	35.040	245.80	8.50	39.56	I	D	SP	P
TOO	36.458	235.68	8.42	39.09	I	D	SP	P
TAU	36.882	226.47	8.39	38.95	E	D	LP	P
PMG	37.102	283.46	8.38	38.88	I	D	LP	P
PMG	37.102	283.46	8.38	38.88	I	D	SP	P
STK	38.673	245.75	8.29	38.37	I	D	SP	P
MOM	40.293	294.02	8.20	37.88	I	D	SP	P
ISQ	41.006	263.00	8.17	37.71	I	D	SP	P
ADE	41.371	241.35	8.14	37.59	I	D	SP	P
ASPA	45.747	257.63	7.90	36.28	I	D	SP	P
WR2	45.934	262.82	7.89	36.22	I	D	SP	P
HON	46.349	23.94	7.87	36.09	E	D	LP	P
GUA	51.664	309.14	7.46	146.02	I	L	LP	AP
GUA	51.664	309.14	7.46	33.98	I	D	LP	P
GUMO	51.729	309.15	7.46	33.96	E	D	LP	P
WBN	52.003	253.19	7.44	33.84	I	D	SP	P
KNA	52.086	266.57	7.43	33.81	I	D	SP	P
KLB	58.940	245.40	6.91	31.17	I	D	SP	P
NWAO	59.209	243.79	6.89	31.07	I	D	LP	P
MRWA	60.808	247.83	6.76	30.43	I	D	SP	P
NAU	62.595	255.12	6.62	29.72	I	D	SP	P
MKS	64.097	274.81	6.50	29.13	I	D	SP	P
SPA	68.445	180.00	6.14	27.38	I	C	SP	P
TRT	69.572	269.68	6.06	27.00	I	D	SP	P
MAT	72.065	322.91	5.88	26.14	I	D	LP	P
MAJO	72.065	322.91	5.88	26.14	I	D	LP	P
MAT	72.065	322.91	5.88	26.14	I	D	SP	P
SHK	73.954	318.15	5.75	25.51	I	D	LP	P
TATO	76.105	304.25	5.60	24.80	I	D	LP	P
ANP	76.193	304.44	5.60	24.78	I	D	LP	P
BKS	78.073	40.95	5.48	24.24	E	C	LP	P
QZH	78.334	302.82	5.46	24.13	I	D	SP	P
JAS1	79.220	41.84	5.40	23.84	I	C	SP	P
SEO	79.449	317.52	5.37	23.72	E	D	LP	P
ORV	79.583	40.01	5.36	23.65	I	C	SP	P
SSE	79.614	309.35	5.35	23.63	E	D	LP	P
MNA	80.942	42.53	5.22	23.02	I	C	SP	P
MAW	80.966	199.48	5.22	23.01	I	D	SP	P

Table 181. Station data for event 203 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NJ2	81.805	309.09	5.16	22.73	I	D	SP	P
MDJ	82.361	324.32	5.13	22.58	I	D	SP	P
LON	84.021	34.29	5.03	22.11	E	D	LP	P
SNY	84.093	319.37	5.02	22.09	I	D	SP	P
CN2	84.166	321.79	5.02	22.06	I	D	SP	P
WHN	84.370	305.82	5.00	21.98	I	D	SP	P
PNT	86.792	33.24	4.81	21.11	I	C	SP	P
ALQ	86.960	50.59	4.80	21.07	I	C	SP	P
BJI	87.803	314.79	4.76	20.88	E	D	LP	P
COL	89.074	11.77	4.72	20.69	I	D	LP	P
TIY	89.201	311.33	4.71	20.67	I	D	SP	P
JCT	89.933	57.11	4.70	20.61	I	C	LP	P
GOL	90.002	46.84	4.70	20.61	E	C	LP	P
XAN	90.060	306.77	4.70	20.61	I	D	SP	P
KMI	91.242	296.45	4.68	20.52	E	D	LP	P
CHG	92.076	289.30	4.66	20.42	I	D	SP	P
BTO	92.198	313.02	4.66	20.41	I	D	SP	P
EDM	92.279	32.43	4.66	20.41	I	C	SP	P
SHA	99.308	60.75	4.46	19.53	E	C	LP	P
UPA	99.571	84.12	4.46	19.49	E	C	LP	P
SOB1	126.599	120.41	1.86	8.02	I	C	SP	PKP
BUL	131.789	212.15	1.84	7.93	I	D	SP	PKP
NAI	140.373	239.05	1.76	7.58	E	D	LP	PKP
NAI	140.373	239.05	1.76	7.58	I	C	SP	PKP
MUD	145.036	354.64	1.68	7.23	I	D	SP	PKP
COP	145.426	351.22	1.67	7.20	I	D	SP	PKP
KSP	149.259	344.23	1.58	6.78	I	D	SP	PKP
BRG	149.774	346.98	1.56	6.72	I	D	SP	PKP
JCK	150.631	356.40	1.54	6.61	I	D	SP	PKP
HOF	150.707	349.17	1.53	6.60	I	D	SP	PKP
ENN	150.927	357.01	1.53	6.57	I	D	SP	PKP
GSH	150.932	356.41	1.53	6.57	I	D	SP	PKP
UCC	150.945	359.05	1.53	6.57	E	D	LP	PKP
STB	151.044	355.78	1.52	6.56	I	D	SP	PKP
BGG	151.394	355.03	1.51	6.51	I	D	SP	PKP
KHC	151.498	346.25	1.51	6.49	I	D	SP	PKP
VKA	151.602	342.03	1.51	6.48	I	D	SP	PKP
SOP	152.055	341.18	1.49	6.41	I	D	SP	PKP
KMR	152.376	344.71	1.48	6.36	I	D	LP	PKP
STU	152.617	351.99	1.47	6.33	E	D	LP	PKP
FLN	152.790	5.96	1.47	6.30	I	D	SP	PKP
FUR	152.883	348.74	1.46	6.29	I	C	SP	PKP
LDF	152.990	5.50	1.46	6.27	I	D	SP	PKP
GRR	153.121	6.63	1.45	6.25	I	D	SP	PKP
LPF	153.453	7.03	1.44	6.20	I	D	SP	PKP
KBA	153.481	345.04	1.44	6.19	I	D	SP	PKP
LOR	154.484	359.64	1.40	6.03	I	D	SP	PKP
TRI	154.649	343.27	1.40	6.00	I	D	SP	PKP
SSF	154.691	0.20	1.39	6.00	I	D	SP	PKP
LBF	154.767	359.45	1.39	5.98	I	D	SP	PKP

Table 181. Station data for event 203 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality	Direction, and Source of Earth Motion		
MFF	154.961	6.17	1.38	5.95	I	D	SP	PKP
AVF	154.961	0.46	1.38	5.95	I	D	SP	PKP
BGF	155.187	1.30	1.38	5.91	I	D	SP	PKP
TCF	155.438	2.38	1.37	5.87	I	D	SP	PKP
LSF	155.443	3.52	1.37	5.87	I	D	SP	PKP
LPG	156.118	354.58	1.34	5.75	I	D	SP	PKP
RJF	156.385	3.73	1.33	5.70	I	D	SP	PKP
LPO	156.981	4.47	1.30	5.59	I	D	SP	PKP
BNG	157.563	222.24	1.28	5.48	I	D	SP	PKP
PTO	158.023	25.33	1.26	5.40	E	D	LP	PKP
FRF	158.049	354.13	1.25	5.39	I	D	SP	PKP
LRG	158.180	354.65	1.25	5.37	I	D	SP	PKP
LMR	158.286	354.32	1.24	5.34	I	D	SP	PKP
EPF	158.545	6.62	1.23	5.29	I	D	SP	PKP
TOL	160.721	18.15	1.13	4.85	I	D	SP	PKP
KIC	162.743	150.79	1.03	4.41	I	D	SP	PKP
MAL	163.466	23.27	0.99	4.24	I	D	LP	PKP
IFR	165.901	31.49	0.86	3.67	I	D	SP	PKP

Table 182. Station data for event 213.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VUN	17.267	352.93	12.48	47.17	I	D	SP	P
DZM	18.073	312.74	12.38	46.67	I	D	SP	P
PVC	20.598	324.59	10.31	37.29	I	C	SP	P
HNR	31.895	318.66	8.75	30.94	I	C	LP	P
CTA	33.809	287.34	8.62	30.43	I	C	LP	P
CTA	33.809	287.34	8.62	30.43	I	C	SP	P
CTAO	33.809	287.34	8.62	30.43	I	C	LP	P
PMG	39.932	301.93	8.27	29.07	E	C	LP	P
ASPA	41.978	272.91	8.16	28.65	I	C	SP	P
WR2	43.378	278.00	8.07	28.31	I	C	SP	P
WB2	43.389	278.00	8.07	28.31	I	C	SP	P
NWAO	51.784	253.22	7.50	26.15	I	C	LP	P
KLB	51.861	255.00	7.50	26.15	I	C	SP	P
MUN	52.940	253.92	7.42	25.85	I	C	LP	P
MBL	54.654	267.72	7.30	25.40	I	C	SP	P
SPA	54.953	180.00	7.26	25.25	I	C	SP	P
GUA	59.160	318.56	6.96	24.14	I	C	LP	P
GUMO	59.226	318.55	6.96	24.14	I	C	LP	P
HON	59.767	23.11	6.88	23.85	I	C	LP	P
DAV	66.757	297.66	6.31	21.76	I	C	LP	P
DAV	66.757	297.66	6.31	21.76	I	C	SP	P
BAG	76.663	301.25	5.61	19.25	E	C	LP	P
MAJO	81.599	326.67	5.22	17.86	I	C	LP	P
MAT	81.599	326.67	5.22	17.86	I	D	SP	P
TATO	81.972	308.08	5.18	17.72	I	C	LP	P
ANP	82.099	308.25	5.18	17.72	I	C	LP	P
SHK	82.622	321.79	5.14	17.58	I	C	LP	P
LNV	83.699	127.28	5.08	17.37	I	C	SP	P
SAN	84.499	127.28	5.02	17.16	I	C	SP	P
PEL	84.677	127.02	5.02	17.16	I	C	SP	P
HKC	85.079	301.53	4.99	17.05	I	C	LP	P
QIZ	86.079	296.41	4.90	16.73	I	C	SP	P
SSE	86.466	312.23	4.86	16.59	E	C	LP	P
SEO	87.902	320.14	4.77	16.28	I	C	LP	P
NJ2	88.555	311.52	4.75	16.21	I	C	SP	P
PLM	89.858	47.93	4.71	16.07	I	C	LP	P
BKS	89.951	41.64	4.71	16.07	I	C	LP	P
RVR	89.988	47.17	4.71	16.07	I	C	LP	P
SBB	90.200	46.41	4.71	16.07	I	C	LP	P
WHN	90.376	307.80	4.70	16.03	I	D	SP	P
ISA	90.496	45.34	4.70	16.03	I	C	LP	P
PIM	90.572	68.06	4.70	16.03	I	C	SP	P
GLA	90.904	49.31	4.70	16.03	I	C	LP	P
JAS	90.988	42.62	4.70	16.03	I	C	LP	P
JAS1	90.984	42.64	4.70	16.03	I	C	SP	P
CLC	91.115	45.73	4.70	16.03	I	C	LP	P
DL2	91.746	317.98	4.68	15.96	I	C	SP	P
III	92.473	69.34	4.66	15.89	I	C	SP	P
OXM	92.847	68.48	4.64	15.82	I	C	SP	P
CN2	93.315	323.44	4.63	15.79	I	C	SP	P

Table 182. Station data for event 213 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VHO	93.921	71.79	4.61	15.72	I	D	SP	P
CHTO	94.149	289.98	4.61	15.72	I	C	LP	P
CHG	94.149	289.98	4.61	15.72	I	D	SP	P
PBJ	94.496	73.18	4.60	15.68	I	C	SP	P
BJI	95.578	315.88	4.56	15.54	E	C	LP	P
LPB	97.013	115.74	4.53	15.44	I	C	SP	P
LPB	97.013	115.74	4.53	15.44	E	C	LP	P
ANMO	97.436	52.35	4.52	15.40	I	C	LP	P
JCT	99.288	59.35	4.47	15.23	E	C	LP	P
GOL	101.002	49.06	4.45	15.16	I	C	LP	Pdf
COL	102.810	13.23	4.45	15.16	I	C	LP	Pdf
UPA	103.106	88.21	4.45	15.16	E	C	LP	Pdf
SHA	107.838	64.79	1.89	6.38	I	C	LP	PKP
PRY	113.187	205.98	1.89	6.37	I	C	SP	PKP
BFS	113.459	205.38	1.89	6.37	I	D	SP	PKP
SLR	113.975	207.23	1.88	6.36	E	C	LP	PKP
SLR	113.975	207.23	1.88	6.36	I	D	SP	PKP
BLA	116.555	61.86	1.88	6.34	E	C	LP	PKP
BUL	118.879	210.19	1.88	6.33	I	D	SP	PKP
SJG	118.946	87.52	1.88	6.33	E	C	LP	PKP
MTD	120.536	214.86	1.87	6.32	I	D	SP	PKP
KRI	121.391	212.89	1.87	6.32	I	D	SP	PKP
WES	124.977	59.31	1.87	6.29	I	C	LP	PKP
NAI	130.414	230.75	1.85	6.24	I	D	SP	PKP
NAI	130.414	230.75	1.85	6.24	I	C	LP	PKP
ARO	135.119	248.86	1.82	6.14	E	C	LP	PKP
KBS	135.952	356.88	1.81	6.12	I	C	LP	PKP
DAG	137.447	6.51	1.80	6.08	I	C	SP	PKP
IST	157.027	293.10	1.30	4.40	I	C	LP	PKP
PSN	157.214	300.04	1.30	4.40	I	C	SP	PKP
WAR	157.643	325.77	1.26	4.25	E	C	LP	PKP
MUD	157.992	347.34	1.26	4.25	I	D	SP	PKP
COP	158.005	342.03	1.26	4.25	I	D	SP	PKP
COP	158.005	342.03	1.26	4.25	I	C	LP	PKP
PVL	159.474	300.01	1.22	4.09	I	C	SP	PKP
KDZ	159.666	295.72	1.17	3.94	I	C	SP	PKP
MMB	160.870	296.25	1.12	3.77	I	D	SP	PKP
VTS	161.015	299.54	1.12	3.77	I	D	SP	PKP
ATH	161.296	285.17	1.12	3.77	I	C	SP	PKP
VAL	161.561	21.74	1.07	3.60	I	C	LP	PKP
SKO	162.441	298.73	1.07	3.60	I	C	SP	PKP
VKA	162.552	323.03	1.02	3.43	I	D	SP	PKP
MOX	162.664	336.05	1.02	3.43	I	C	LP	PKP
MOX	162.664	336.05	1.02	3.43	I	C	SP	PKP
HOF	162.858	334.97	1.02	3.43	I	C	SP	PKP
GRF	163.610	335.05	0.96	3.25	I	D	SP	PKP
KMR	163.738	326.08	0.96	3.25	I	C	LP	PKP
UCC	164.213	351.35	0.96	3.25	E	C	LP	PKP
FLN	166.454	3.24	0.85	2.88	I	C	SP	PKP
LDF	166.637	2.26	0.80	2.68	I	C	SP	PKP

Table 182. Station data for event 213 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
GRR	166.807	4.45	0.80	2.68	I	C	SP	PKP
LPF	167.149	5.15	0.80	2.68	I	C	SP	PKP
LOR	167.739	349.70	0.74	2.49	I	C	SP	PKP
LBF	167.999	349.03	0.74	2.49	I	C	SP	PKP
SSF	167.991	350.62	0.74	2.49	I	C	SP	PKP
AVF	168.278	350.87	0.74	2.49	I	C	SP	PKP
SMF	168.350	349.10	0.74	2.49	I	C	SP	PKP
BGF	168.567	352.38	0.68	2.29	I	C	SP	PKP
MFF	168.626	2.83	0.68	2.29	I	C	SP	PKP
LPG	168.749	337.52	0.68	2.29	I	C	SP	PKP
TCF	168.895	354.42	0.68	2.29	I	C	SP	PKP
MZF	168.933	353.03	0.68	2.29	I	C	SP	PKP
LSF	168.975	356.85	0.68	2.29	I	C	SP	PKP
RJF	169.919	356.56	0.62	2.09	I	C	SP	PKP
CAF	170.260	354.11	0.62	2.09	I	C	SP	PKP
CVF	170.281	321.34	0.62	2.09	I	C	SP	PKP
LFF	170.305	359.67	0.62	2.09	I	C	SP	PKP
FRF	170.485	332.71	0.62	2.09	I	C	SP	PKP
LPO	170.553	357.72	0.56	1.89	I	C	SP	PKP
PTO	170.625	48.29	0.56	1.89	I	C	LP	PKP
PTO	170.625	48.29	0.56	1.89	I	C	SP	PKP
LRG	170.682	333.48	0.56	1.89	I	C	SP	PKP
LMR	170.731	332.52	0.56	1.89	I	C	SP	PKP
LIS	171.413	63.25	0.56	1.89	I	C	SP	PKP
EPF	172.209	1.75	0.50	1.68	I	C	SP	PKP
TOL	174.039	37.50	0.38	1.27	I	C	LP	PKP
MAL	175.623	68.61	0.25	0.85	I	C	LP	PKP
CRT	176.040	59.22	0.25	0.85	I	C	SP	PKP
ALI	176.750	16.17	0.19	0.64	I	C	LP	PKP

Figure 66. Azimuthal equidistant map for geographic subdivision, Vanuatu-Loyalty Islands.

FIRST MOTION FM LOCATIONS 1984-1985 VANUATU-LOYALTY ISLANDS

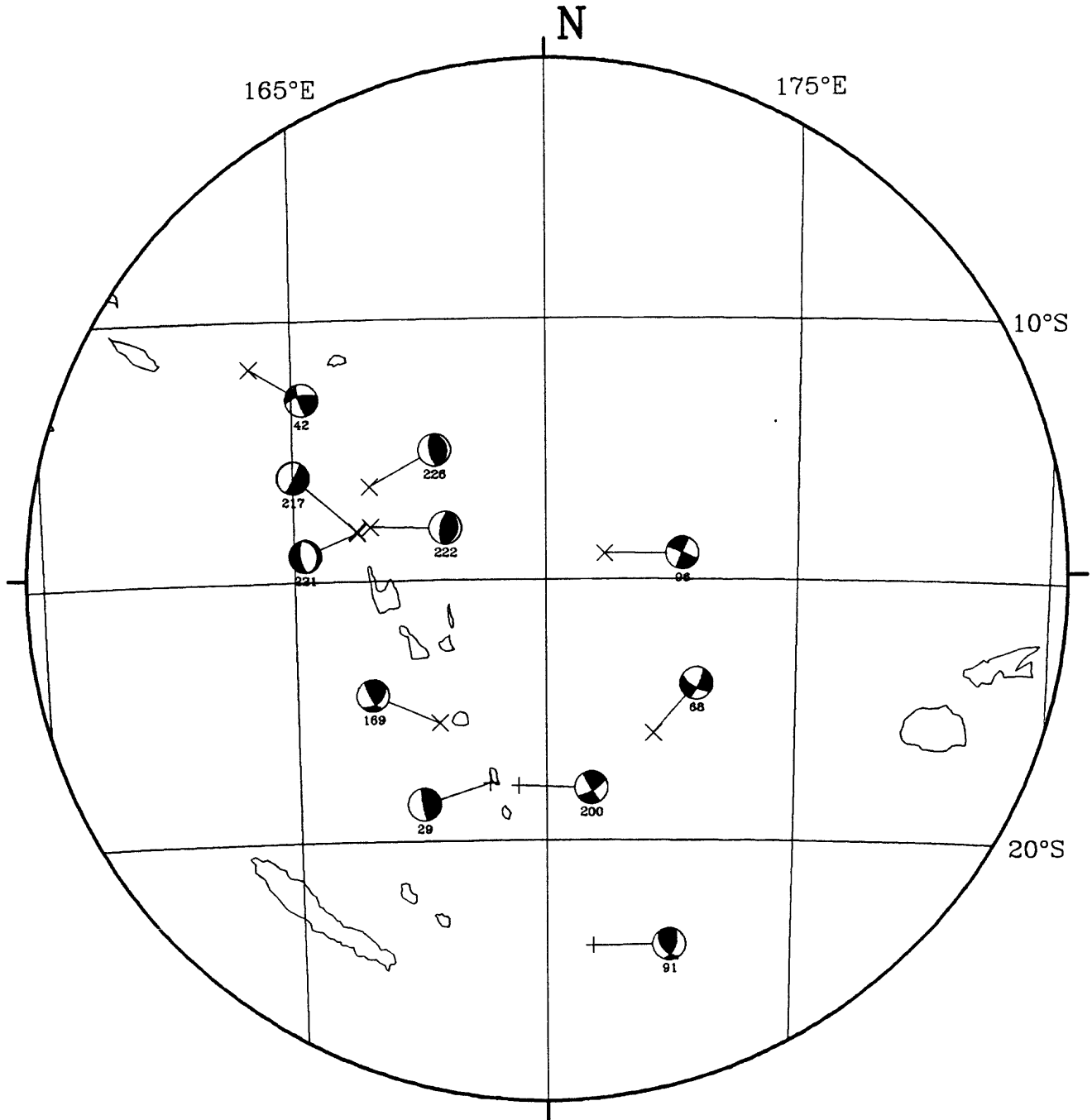


Table 183. Focal mechanism parameters for subdivision,
Vanuatu-Loyalty Islands

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
29	170	82	90	350	8	90	53	80	37	260	0	170
42	161	76	155	267	66	15	27	117	7	211	62	314
68	25	78	-22	120	69	-167	6	74	24	341	65	178
91	143	49	45	20	58	129	57	345	5	83	32	176
96	294	88	3	204	87	178	4	159	1	69	86	328
169	150	75	47	44	45	159	43	19	18	271	41	164
200	149	85	18	57	72	175	16	15	9	282	71	164
217	27	85	-90	207	5	-90	40	117	50	297	0	27
221	170	65	-90	350	25	-90	20	260	70	80	0	170
222	190	63	90	10	27	90	72	100	18	280	0	10
226	170	64	90	350	26	90	71	80	19	260	0	170

Figure 67. Lower hemisphere focal sphere projection for events 29, 42, 68, and 91.

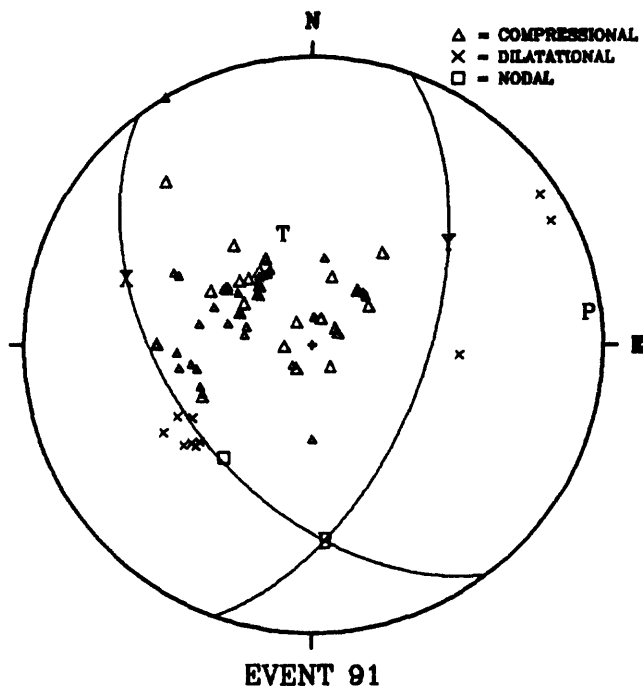
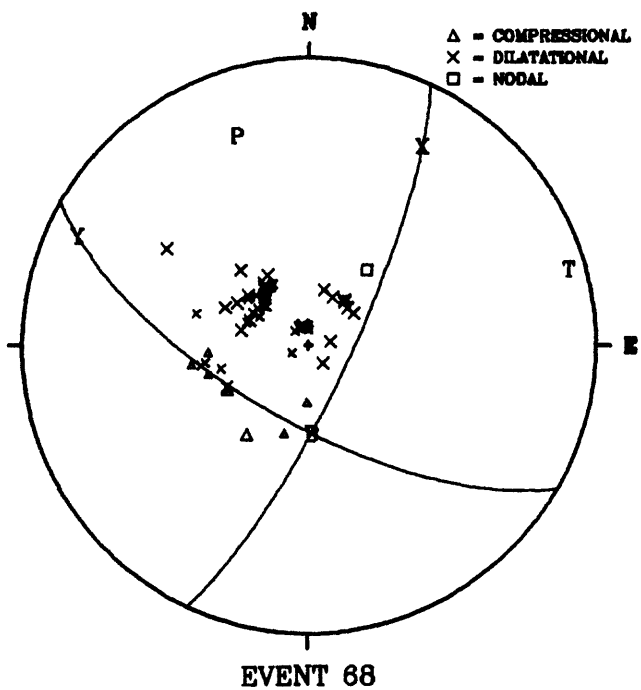
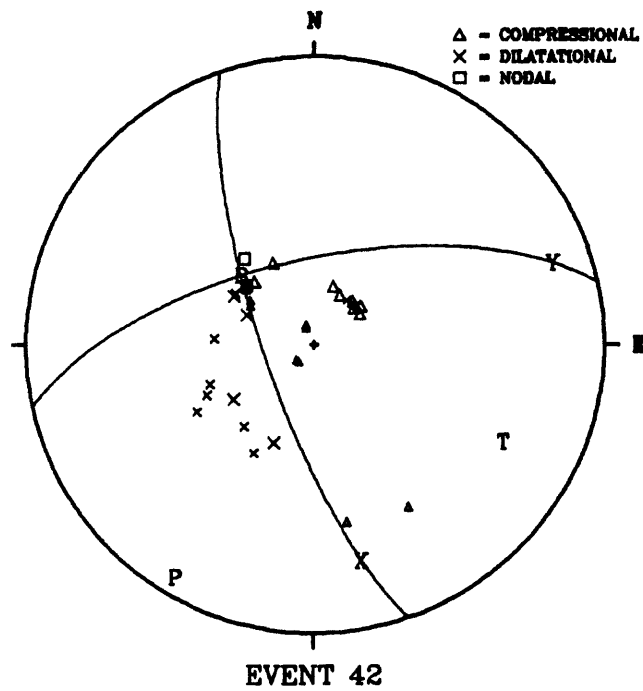
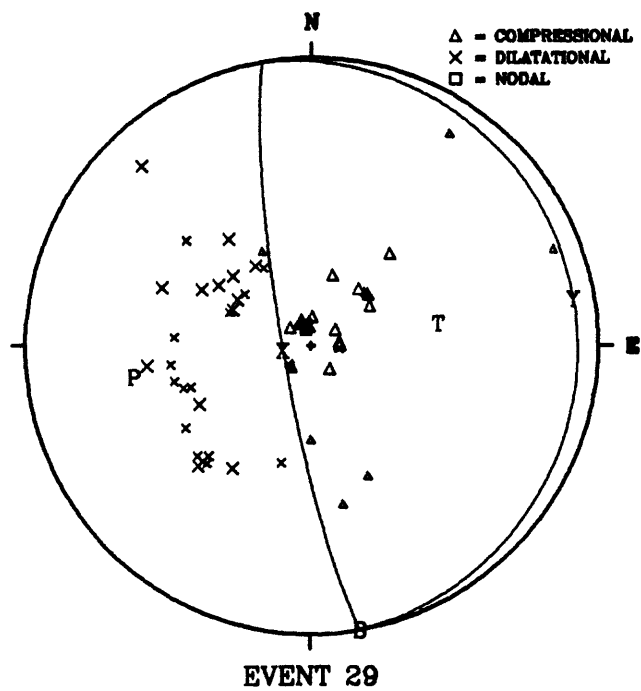


Figure 68. Lower hemisphere focal sphere projection for events 96, 169, 200, and 217.

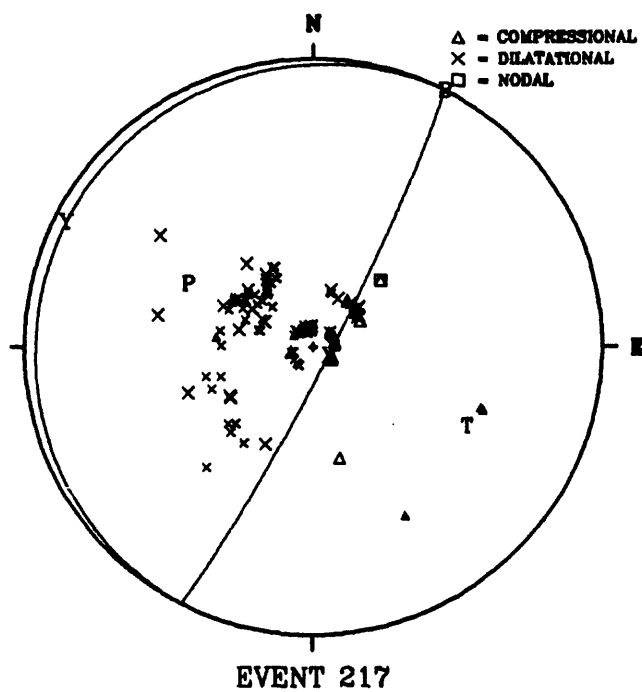
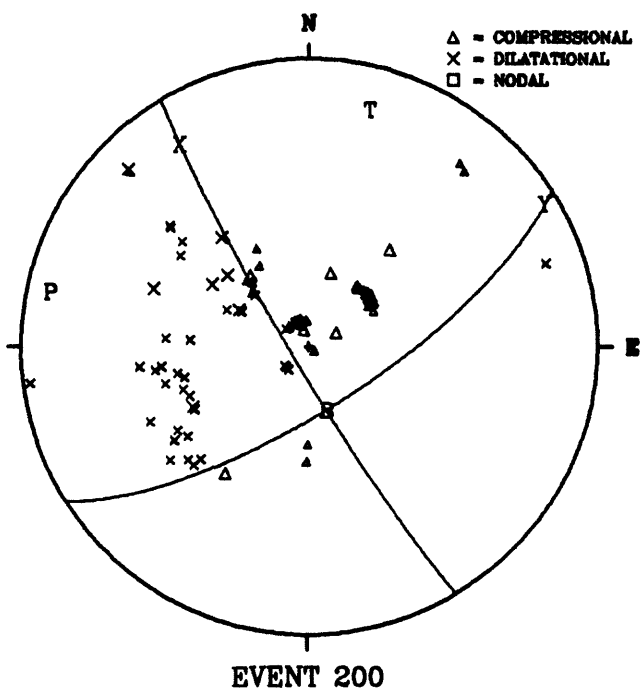
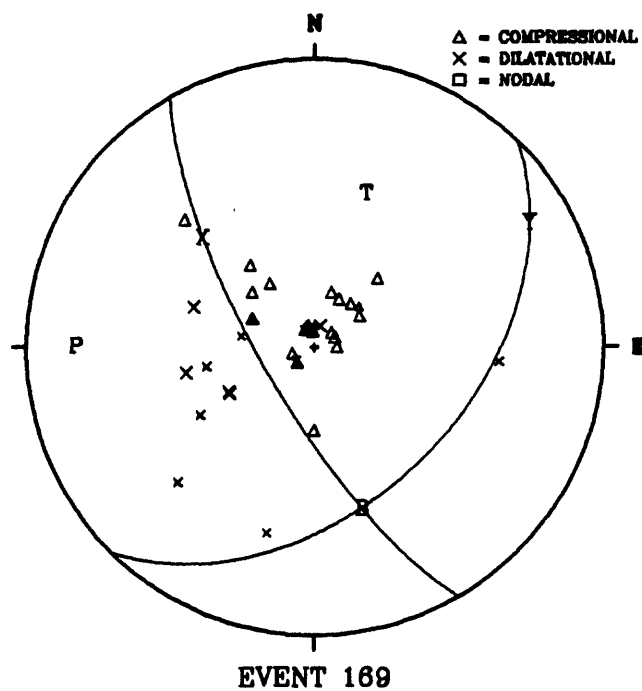
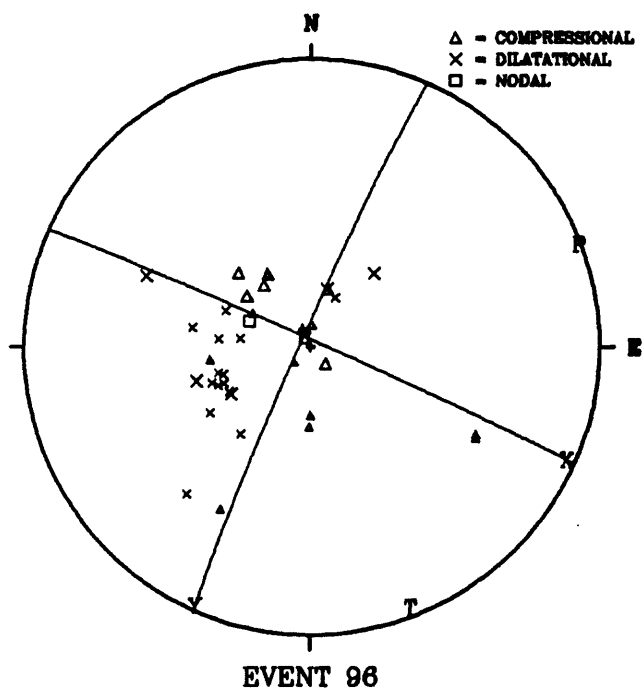


Figure 69. Lower hemisphere focal sphere projection for events 221, 222, and 226.

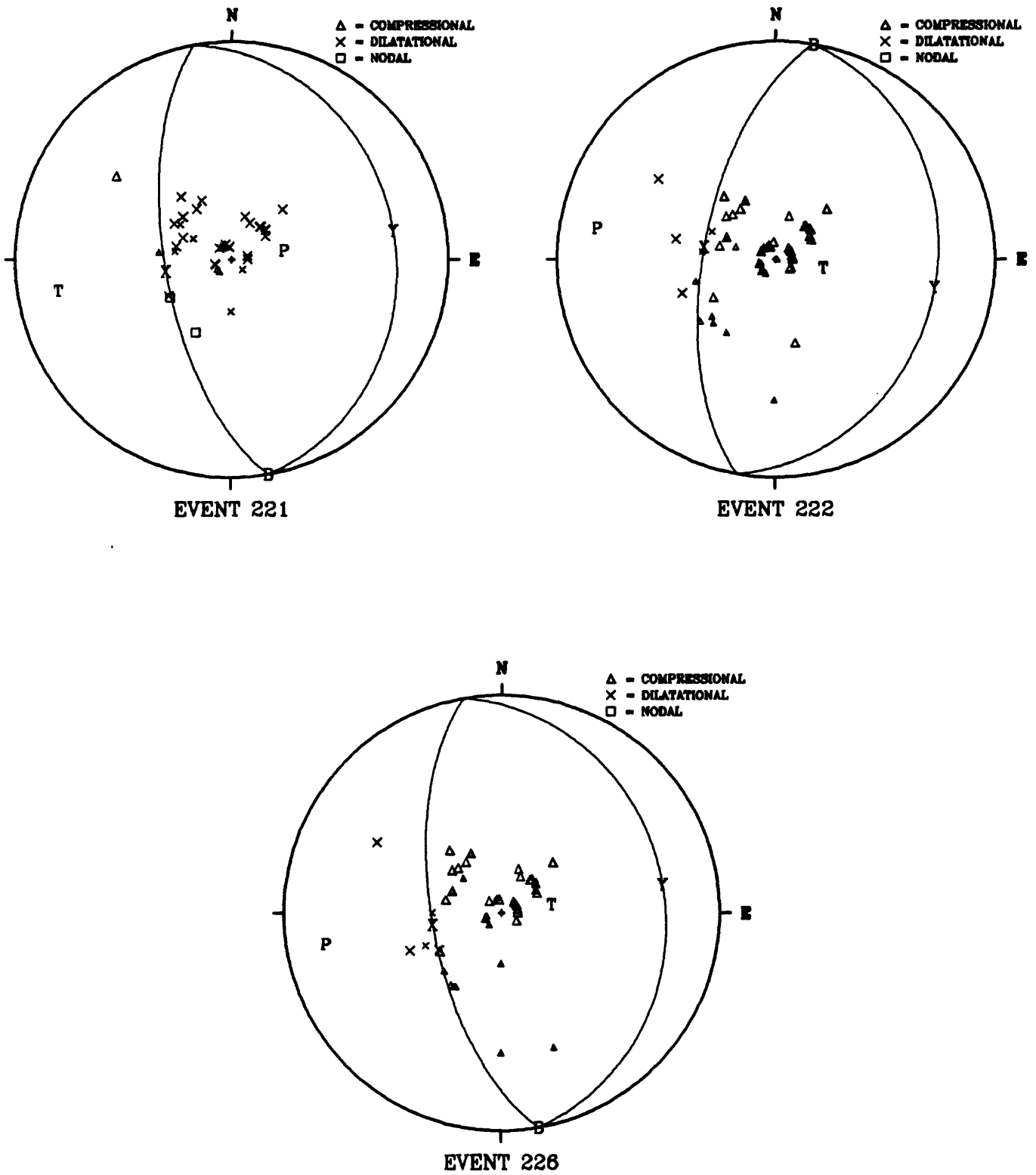


Table 184. Station data for event 29.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	1.264	336.07	8.62	139.10	I	C	SP	P
NOU	4.067	213.14	12.81	103.33	I	C	SP	P
KOU	4.609	248.27	12.96	100.17	I	C	SP	P
HNR	12.766	316.29	12.72	74.92	I	D	LP	P
CTA	21.333	263.08	9.81	48.13	I	D	LP	P
RIV	21.680	223.22	9.75	47.75	I	D	LP	P
RAB	21.892	309.84	9.72	47.54	I	D	SP	P
WEL	22.875	168.47	9.58	46.64	I	C	SP	P
PMG	23.032	291.19	9.56	46.52	E	D	LP	P
YOU	23.794	225.87	9.46	45.93	I	D	SP	P
CAN	24.001	223.06	9.44	45.81	I	D	SP	P
WAM	24.615	221.55	9.38	45.44	I	D	SP	P
TOO	27.611	222.83	9.06	43.49	I	D	SP	P
STK	27.721	236.90	9.05	43.39	I	D	SP	P
TAU	30.060	212.57	8.81	41.99	I	D	LP	P
WB2	32.519	262.37	8.64	41.02	I	D	SP	P
ASPA	32.856	255.50	8.62	40.86	I	D	SP	P
MTN	36.725	273.76	8.39	39.59	I	D	SP	P
WBN	39.574	251.64	8.23	38.69	I	D	SP	P
GUMO	40.007	322.06	8.21	38.55	I	D	LP	P
MEK	46.780	250.97	7.83	36.48	I	D	SP	P
NWAO	48.041	242.45	7.74	36.01	E	D	LP	P
DAV	49.861	297.14	7.60	35.24	I	D	LP	P
DRV	51.265	194.26	7.49	34.64	I	D	SP	P
HON	51.481	40.66	7.47	34.55	I	C	LP	P
BAG	59.040	303.35	6.89	31.57	I	D	LP	P
MAT	62.278	332.37	6.63	30.25	I	C	SP	P
TATO	63.457	311.73	6.54	29.78	E	D	LP	P
ANP	63.567	311.92	6.53	29.73	I	D	LP	P
SEO	68.612	325.27	6.12	27.68	E	D	LP	P
SPA	71.218	180.00	5.93	26.76	I	C	SP	P
CN2	73.975	328.82	5.74	25.83	I	D	SP	P
NST	75.841	292.22	5.62	25.25	I	D	SP	P
BDT	77.475	293.22	5.51	24.74	I	C	SP	P
KMI	77.781	302.00	5.49	24.65	I	D	LP	P
CHTO	78.176	294.65	5.46	24.51	I	D	LP	P
CHG	78.176	294.65	5.46	24.51	I	D	SP	P
CD2	79.737	307.60	5.32	23.83	I	D	SP	P
BKS	85.830	47.76	4.87	21.71	E	C	LP	P
WDC	86.881	45.26	4.81	21.40	I	C	SP	P
JAS	87.127	48.35	4.79	21.33	I	C	SP	P
FRJ	87.226	49.46	4.78	21.30	I	C	SP	P
COL	89.859	17.03	4.70	20.92	I	C	LP	P
LON	90.231	40.05	4.70	20.90	I	C	LP	P
ANMO	96.410	55.40	4.53	20.13	I	C	LP	P
TUL	105.055	56.83	1.89	8.25	E	C	LP	Pdf
LPA	110.454	140.26	1.89	8.25	E	C	LP	PKP
UPA	113.233	88.15	1.89	8.23	I	C	LP	PKP
SEK	119.921	219.57	1.87	8.18	I	C	SP	PKP
PRY	121.023	220.57	1.87	8.17	I	C	SP	PKP

Table 184. Station data for event 29 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SLR	121.369	222.14	1.87	8.17	I	C	SP	PKP
DAG	121.970	2.06	1.87	8.17	I	C	LP	PKP
BUL	125.002	227.20	1.87	8.15	I	D	SP	PKP
KRI	126.450	231.03	1.86	8.13	I	D	SP	PKP
SJG	128.020	81.47	1.86	8.11	I	C	LP	PKP
GUV	128.438	95.05	1.86	8.10	I	D	SP	PKP
COP	139.184	339.71	1.78	7.75	E	C	LP	PKP
IST	139.290	311.61	1.78	7.75	I	C	LP	PKP
DMU	144.919	355.63	1.68	7.34	I	C	SP	PKP
STU	145.970	335.73	1.66	7.24	I	C	LP	PKP
SLE	147.060	335.35	1.63	7.13	E	C	LP	PKP
SAX	147.128	333.93	1.63	7.12	E	C	LP	PKP
ZUL	147.332	335.14	1.63	7.10	E	C	LP	PKP
LLS	147.576	333.85	1.62	7.07	E	C	LP	PKP
TMA	148.232	333.09	1.60	7.00	E	C	LP	PKP
DIX	148.862	334.63	1.59	6.92	E	C	LP	PKP
EMS	149.064	335.14	1.58	6.90	E	C	LP	PKP
SMF	149.709	339.31	1.56	6.82	I	C	SP	PKP
PTO	157.732	354.92	1.27	5.52	I	C	LP	PKP
TOL	158.215	345.15	1.25	5.43	I	C	LP	PKP
MAL	161.282	342.91	1.10	4.79	I	C	LP	PKP

Table 185. Station data for event 42.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	7.891	150.01	13.92	54.80	I	C	SP	P
NOU	11.554	169.46	13.52	52.53	I	C	SP	P
CTA	19.528	239.95	10.60	38.48	I	D	SP	P
COO	22.669	208.45	9.86	35.37	I	D	SP	P
ISQ	25.596	244.57	9.42	33.57	I	D	SP	P
WRA	30.097	248.99	8.91	31.54	I	D	SP	P
GUMO	30.964	321.31	8.82	31.18	E	N	LP	P
ADE	33.341	220.00	8.65	30.52	I	D	SP	P
TAU	35.111	201.75	8.56	30.17	I	D	LP	P
MKS	44.594	273.61	8.02	28.09	I	D	SP	P
NWAO	48.278	235.43	7.78	27.18	I	D	LP	P
CVP	50.574	303.75	7.62	26.57	I	D	SP	P
BAG	50.955	301.54	7.58	26.42	E	D	LP	P
SZP	51.619	302.73	7.54	26.27	I	D	SP	P
MAJO	53.141	333.84	7.42	25.82	I	C	LP	P
TATO	54.805	311.14	7.26	25.23	E	N	LP	P
ANP	54.904	311.36	7.26	25.23	I	C	LP	P
QZH	56.959	309.32	7.11	24.67	I	C	SP	P
SSE	58.681	316.78	7.00	24.26	E	C	LP	P
GYA	67.067	304.80	6.31	21.74	I	C	SP	P
KMI	69.735	301.92	6.11	21.02	I	C	SP	P
CHTO	70.762	294.35	6.00	20.62	I	D	LP	P
COL	83.660	18.61	5.08	17.35	I	C	LP	P
JAS	85.350	50.14	4.96	16.93	I	C	LP	P
LON	87.147	41.44	4.83	16.47	I	C	LP	P
BMN	88.454	48.47	4.75	16.19	I	C	SP	P
EDM	94.163	36.71	4.61	15.70	I	D	SP	P
RSNT	95.547	27.47	4.56	15.53	I	C	LP	P
ANMO	95.627	55.64	4.56	15.53	I	C	LP	P
RSSD	98.757	46.75	4.48	15.25	I	C	LP	P
GRM	120.322	220.85	1.87	6.32	I	C	SP	PKP
SLR	123.721	229.00	1.87	6.30	I	C	SP	PKP
GRC	140.369	339.79	1.77	5.96	I	C	SP	PKP
ALM	151.486	337.16	1.53	5.15	I	C	SP	PKP

Table 186. Station data for event 68.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	14.564	303.97	13.05	50.03	E	D	LP	P
CTA	24.566	260.88	9.54	34.07	I	C	SP	P
PMG	25.702	285.98	9.42	33.58	I	D	SP	P
ISQ	30.852	259.55	8.82	31.19	I	D	SP	P
TAU	32.584	214.95	8.72	30.80	I	C	LP	P
WB2	35.756	260.65	8.50	29.94	I	D	SP	P
ASPA	36.125	254.33	8.50	29.94	I	C	SP	P
GUA	41.245	317.53	8.21	28.82	E	D	LP	P
GUMO	41.311	317.53	8.18	28.71	I	D	LP	P
KNA	41.511	266.34	8.18	28.71	I	C	SP	P
HON	48.766	38.10	7.74	27.03	I	N	LP	P
NWAO	51.250	241.95	7.54	26.28	I	C	LP	P
RKG	51.500	240.50	7.54	26.28	I	C	SP	P
MUN	52.081	243.19	7.50	26.13	E	D	LP	P
DAV	52.275	294.32	7.46	25.98	I	D	LP	P
DRV	52.976	195.40	7.42	25.83	I	C	SP	P
NAU	53.087	254.99	7.42	25.83	I	D	SP	P
BAG	61.192	300.90	6.80	23.54	I	D	LP	P
MAT	62.972	329.68	6.64	22.95	I	D	SP	P
MAJO	62.972	329.68	6.64	22.95	I	D	LP	P
SHK	64.290	324.37	6.52	22.51	I	D	SP	P
TATO	65.226	309.37	6.47	22.33	I	D	LP	P
ANP	65.327	309.57	6.43	22.18	I	D	LP	P
QZH	67.365	307.70	6.27	21.60	I	D	SP	P
SEO	69.683	323.05	6.10	20.99	I	D	LP	P
NJ2	71.254	314.03	5.96	20.49	I	D	SP	P
MDJ	73.359	329.72	5.82	19.98	I	D	SP	P
DL2	73.702	321.14	5.82	19.98	I	D	SP	P
SNY	74.499	324.44	5.75	19.73	I	D	SP	P
CN2	74.845	326.91	5.71	19.59	I	D	SP	P
SNG	74.860	282.83	5.71	19.59	I	D	LP	P
BJI	77.722	319.37	5.55	19.02	I	D	LP	P
NST	78.412	290.72	5.49	18.81	I	D	SP	P
TIY	78.806	315.72	5.45	18.67	I	D	SP	P
KMI	79.971	300.48	5.36	18.35	I	D	SP	P
CHG	80.657	293.21	5.31	18.17	I	D	SP	P
CHG	80.657	293.21	5.31	18.17	I	D	LP	P
HHC	81.079	318.01	5.26	17.99	I	D	SP	P
CD2	81.678	306.14	5.22	17.85	I	D	SP	P
BTO	81.937	317.16	5.18	17.71	I	D	SP	P
LZH	83.949	310.81	5.05	17.25	I	D	SP	P
COR	85.525	40.33	4.96	16.93	I	D	SP	P
LON	87.513	38.98	4.80	16.37	I	D	LP	P
COL	88.068	15.94	4.77	16.27	I	D	LP	P
GTA	88.276	312.39	4.75	16.20	I	D	SP	P
PNT	90.037	37.43	4.71	16.06	I	D	SP	P
LSA	91.228	300.73	4.70	16.02	I	D	SP	P
SNA	91.884	181.87	4.67	15.92	I	C	SP	P
LHD	91.971	39.57	4.67	15.92	I	D	LP	P
YKM	92.134	38.98	4.67	15.92	I	D	LP	P

Table 186. Station data for event 68 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LDM	92.200	39.46	4.67	15.92	I	D	LP	P
CLX	92.209	39.74	4.67	15.92	I	D	LP	P
ANMO	93.306	54.45	4.63	15.78	I	D	LP	P
RSSD	97.970	46.31	4.51	15.36	I	D	LP	P
RSNT	98.275	26.72	4.49	15.29	I	D	LP	P
LPA	109.120	138.15	1.89	6.37	E	D	LP	PKP
SJG	124.778	80.12	1.87	6.29	E	D	LP	PKP
COP	139.309	342.47	1.78	6.00	E	D	LP	PKP
MOX	143.872	338.91	1.70	5.74	I	D	SP	PKP
VKA	143.928	332.31	1.70	5.74	I	D	SP	PKP
KHC	144.399	335.65	1.70	5.74	I	D	SP	PKP
DBN	144.415	346.17	1.70	5.74	I	D	LP	PKP
WET	144.658	336.30	1.68	5.68	I	D	SP	PKP
GRF	144.814	338.39	1.68	5.68	I	D	SP	PKP
BNS	144.961	343.41	1.68	5.68	I	D	SP	PKP
KMR	145.028	334.01	1.68	5.68	I	D	LP	PKP
THE	145.180	316.93	1.68	5.68	I	D	SP	PKP
TNS	145.258	341.56	1.68	5.68	I	D	SP	PKP
ETA	145.312	358.24	1.68	5.68	I	D	SP	PKP
BGG	145.599	342.66	1.66	5.60	I	D	SP	PKP
ECB	145.656	358.84	1.66	5.60	I	D	SP	PKP
UCC	145.817	346.18	1.66	5.60	E	D	LP	PKP
ECP	145.833	358.37	1.66	5.60	I	D	SP	PKP
STU	146.292	339.54	1.66	5.60	I	D	LP	PKP
DOU	146.417	345.47	1.66	5.60	E	D	LP	PKP
TRI	147.006	331.70	1.64	5.53	I	D	SP	PKP
GRC	149.394	345.32	1.59	5.35	I	D	SP	PKP
BNG	150.887	245.66	1.53	5.15	I	D	SP	PKP
PTO	156.890	1.45	1.30	4.40	I	D	SP	PKP

Table 187. Station data for event 91.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	4.930	329.31	13.73	90.00	I	C	SP	P
NDF	7.442	56.39	13.64	83.38	I	D	SP	P
SVA	8.054	62.49	13.59	81.86	I	D	SP	P
HNR	16.382	318.11	12.44	65.02	I	C	LP	P
COO	19.074	239.52	10.50	49.89	I	D	SP	P
RIV	21.033	231.76	10.00	46.76	I	D	SP	P
ALOA	22.907	297.32	9.68	44.82	I	C	SP	P
CTA	23.123	270.22	9.64	44.63	I	C	SP	P
CTAO	23.123	270.22	9.64	44.63	I	C	LP	P
CAN	23.312	230.58	9.61	44.43	I	D	SP	P
WAM	23.823	228.80	9.55	44.06	I	D	SP	P
CMS	24.286	241.87	9.48	43.68	I	D	SP	P
LMG	25.500	297.20	9.37	43.02	I	C	SP	P
TOO	26.868	229.10	9.24	42.30	I	D	SP	P
RAR	27.214	93.81	9.20	42.10	I	D	SP	P
TAU	28.659	217.88	9.00	40.98	E	N	LP	P
ADE	30.990	238.32	8.79	39.80	I	D	SP	P
ASPA	34.124	259.98	8.58	38.68	I	C	SP	P
WB2	34.184	266.63	8.58	38.66	I	C	SP	P
GUA	43.598	321.75	8.04	35.86	I	C	LP	P
GUMO	43.663	321.74	8.04	35.84	E	C	LP	P
MBL	47.355	261.04	7.83	34.76	I	C	SP	P
NWAO	48.433	244.98	7.75	34.38	I	C	LP	P
MUN	49.332	246.20	7.68	34.02	I	C	SP	P
MRWA	49.698	249.79	7.65	33.87	I	C	SP	P
NAU	51.053	258.26	7.54	33.33	I	C	SP	P
MKS	52.468	280.71	7.43	32.76	I	C	SP	P
HON	52.657	37.21	7.41	32.69	I	C	LP	P
DAV	53.041	297.87	7.38	32.53	E	C	LP	P
KKM	60.408	290.96	6.82	29.76	I	C	SP	P
MAN	60.980	302.19	6.77	29.54	I	C	SP	P
BAG	62.392	303.47	6.66	29.00	I	C	LP	P
SZP	63.162	304.41	6.60	28.71	I	C	SP	P
MAJO	65.942	331.51	6.37	27.66	I	C	LP	P
MAT	65.942	331.51	6.37	27.66	I	C	SP	P
TATO	66.990	311.46	6.28	27.22	I	C	LP	P
ANP	67.103	311.65	6.27	27.17	I	C	LP	P
SPA	68.115	180.00	6.19	26.79	I	C	SP	P
SSE	71.175	316.22	5.96	25.71	I	C	LP	P
GZH	71.791	305.06	5.91	25.51	I	C	SP	P
SEO	72.282	324.60	5.88	25.37	I	C	LP	P
ADK	74.372	7.92	5.74	24.70	I	C	SP	P
SNG	74.715	284.38	5.71	24.59	I	C	SP	P
DL2	76.182	322.45	5.62	24.15	I	C	SP	P
MDJ	76.314	330.94	5.61	24.12	I	C	SP	P
SNY	77.168	325.67	5.56	23.87	I	C	SP	P
CN2	77.650	328.08	5.52	23.70	I	C	SP	P
BDT	80.503	292.90	5.28	22.61	I	C	SP	P
TIY	80.947	316.77	5.24	22.45	I	C	SP	P
KMI	81.089	301.57	5.23	22.40	I	C	LP	P

Table 187. Station data for event 91 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CHG	81.253	294.28	5.22	22.34	I	C	SP	P
CHTO	81.253	294.28	5.22	22.34	I	C	LP	P
HHC	83.358	318.90	5.08	21.70	I	C	SP	P
LZH	85.764	311.56	4.90	20.93	I	C	SP	P
WDC	87.695	44.36	4.78	20.37	I	C	SP	P
JAS1	87.748	47.48	4.78	20.35	I	C	SP	P
COR	89.332	40.66	4.71	20.08	I	C	SP	P
MNA	89.550	47.92	4.71	20.06	I	C	SP	P
GTA	90.184	312.85	4.70	20.01	I	C	SP	P
LON	91.360	39.37	4.68	19.94	I	C	LP	P
COL	92.265	16.35	4.66	19.83	I	C	LP	P
LHD	95.799	40.10	4.54	19.33	I	C	SP	P
LDM	96.031	39.99	4.54	19.31	I	C	SP	P
ANMO	96.560	55.09	4.53	19.26	I	C	LP	P
KOD	96.966	278.19	4.52	19.22	I	C	SP	P
HYB	98.507	285.31	4.49	19.09	I	C	SP	P
LPA	106.812	139.70	1.89	7.91	I	C	LP	Pdf
SHA	109.911	64.11	1.89	7.91	I	C	LP	Pdf
GRM	115.336	212.66	1.88	7.87	I	C	LP	Pdf
BUL	124.237	223.98	1.87	7.82	I	C	SP	PKP
WES	124.765	52.98	1.87	7.81	E	C	LP	PKP
DAG	124.988	2.72	1.87	7.81	I	C	SP	PKP
GDH	125.749	17.92	1.86	7.81	E	C	LP	PKP
ARO	129.436	266.94	1.85	7.76	I	C	LP	PKP
OBN	132.648	326.09	1.84	7.69	I	C	LP	PKP
AKU	135.951	5.38	1.81	7.59	I	C	SP	PKP

Table 188. Station data for event 96.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	4.224	220.04	14.19	56.36	I	D	SP	P
NDF	6.853	118.99	14.01	55.28	I	C	SP	P
SVA	7.871	118.12	13.93	54.81	I	C	SP	P
NOU	8.956	209.25	13.83	54.23	I	C	SP	P
HNR	12.072	293.43	13.45	52.10	E	D	LP	P
PMG	24.018	279.48	9.61	34.32	I	D	SP	P
RMQ	24.092	236.82	9.61	34.32	I	D	SP	P
CTAO	24.407	253.33	9.54	34.03	I	D	LP	P
WAM	29.388	218.68	8.98	31.79	I	D	SP	P
ASPA	36.282	249.74	8.47	29.80	I	D	SP	P
GUA	38.097	315.80	8.38	29.45	E	C	LP	P
GUMO	38.163	315.80	8.38	29.45	I	C	LP	P
KNA	40.897	262.61	8.21	28.79	I	C	SP	P
WBN	43.188	247.22	8.10	28.37	I	D	SP	P
HON	46.724	41.02	7.91	27.65	E	D	LP	P
MBL	49.142	254.48	7.74	27.01	I	D	SP	P
MEK	50.407	247.39	7.62	26.55	I	D	SP	P
CGP	51.420	293.44	7.54	26.25	I	D	SP	P
KLB	51.501	241.10	7.54	26.25	I	D	SP	P
MKS	51.654	274.84	7.54	26.25	I	D	SP	P
NWAO	52.102	239.49	7.50	26.10	I	D	LP	P
NAU	53.135	252.59	7.42	25.81	I	D	SP	P
MAJO	59.533	329.45	6.92	23.95	I	C	LP	P
MAT	59.533	329.45	6.92	23.95	I	C	SP	P
TATO	62.329	308.62	6.68	23.07	E	C	LP	P
ANP	62.422	308.83	6.68	23.07	E	C	LP	P
SBA	63.398	181.04	6.60	22.78	I	C	SP	P
SEO	66.374	322.80	6.35	21.87	E	C	LP	P
PSI	73.529	277.25	5.82	19.96	I	D	SP	P
SPA	75.591	180.00	5.68	19.47	I	C	SP	P
KMI	77.418	300.26	5.55	19.00	I	C	SP	P
CHTO	78.438	292.97	5.49	18.79	E	N	LP	P
COL	85.034	16.33	4.99	17.02	E	C	LP	P
FBAL	85.137	16.44	4.99	17.02	I	C	LP	P
YKA	95.634	26.68	4.56	15.52	I	D	SP	P
LPA	112.304	137.82	1.89	6.37	E	C	LP	PKP
DAG	117.512	2.57	1.88	6.32	I	C	SP	PKP
BUL	129.589	227.85	1.85	6.23	I	C	SP	PKP
KBA	142.623	334.84	1.72	5.80	I	C	SP	PKP

Table 189. Station data for event 169.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KOU	4.712	224.98	14.16	56.25	I	D	SP	P
NOU	5.206	194.27	14.15	56.19	I	D	SP	P
NDF	9.190	94.62	13.82	54.25	I	D	SP	P
HNR	10.913	314.34	13.58	52.89	E	F	LP	P
RMQ	19.934	239.24	10.45	37.85	I	D	SP	P
CTA	20.639	258.75	10.31	37.26	I	D	LP	P
PMG	21.561	288.52	10.06	36.21	I	D	LP	P
WB2	31.819	259.86	8.75	30.92	I	D	SP	P
GUMO	38.111	322.06	8.38	29.48	E	C	LP	P
NWAO	47.971	241.04	7.82	27.34	I	D	LP	P
MUN	48.744	242.41	7.78	27.18	E	D	LP	P
HON	50.886	42.43	7.58	26.43	I	C	LP	P
SBA	60.640	180.26	6.84	23.68	I	C	LP	P
ANP	61.745	311.94	6.76	23.39	E	C	LP	P
SEO	66.704	325.52	6.35	21.89	I	C	LP	P
PSI	70.747	279.17	6.03	20.74	I	D	SP	P
CHG	76.608	294.72	5.61	19.23	I	C	SP	P
CHG	76.608	294.72	5.61	19.23	I	C	LP	P
CHTO	76.608	294.72	5.61	19.23	E	C	LP	P
BKS	85.443	48.22	4.96	16.93	I	C	SP	P
COL	88.568	17.36	4.75	16.20	I	C	LP	P
LON	89.595	40.37	4.71	16.06	I	C	LP	P
ANMO	96.270	55.50	4.54	15.46	I	C	LP	P
RSNT	99.516	27.39	4.47	15.22	I	C	LP	P
SHA	110.431	63.11	1.89	6.37	E	C	LP	PKP
UPA	114.140	87.73	1.88	6.35	E	C	LP	PKP
DAG	120.353	1.76	1.87	6.32	I	C	SP	PKP
SLR	121.922	223.58	1.87	6.31	I	C	SP	PKP
GDH	122.063	16.14	1.87	6.31	I	D	LP	PKP
KEV	122.280	344.92	1.87	6.31	E	C	LP	PKP
WES	124.114	50.21	1.87	6.30	E	C	LP	PKP
BUL	125.387	228.83	1.87	6.29	E	C	LP	PKP
KRI	126.708	232.75	1.86	6.27	I	D	SP	PKP
NAI	128.366	254.13	1.86	6.27	E	C	LP	PKP
NUR	129.387	337.44	1.86	6.25	E	C	LP	PKP
COP	137.300	339.65	1.80	6.08	E	C	LP	PKP
KMR	142.489	330.78	1.74	5.86	E	C	LP	PKP
DBN	142.614	342.37	1.72	5.80	E	C	LP	PKP
KBA	143.564	330.29	1.70	5.74	I	D	SP	PKP
UCC	144.007	342.11	1.70	5.74	E	C	LP	PKP
STU	144.068	335.75	1.70	5.74	I	C	LP	PKP
TRI	144.331	328.30	1.70	5.74	I	C	SP	PKP
DOU	144.558	341.32	1.68	5.68	E	C	LP	PKP
BSF	145.758	337.10	1.66	5.60	I	C	SP	PKP
FLN	147.154	345.69	1.64	5.53	I	C	SP	PKP
LOR	147.273	339.65	1.64	5.53	I	C	SP	PKP
LBF	147.481	339.26	1.64	5.53	I	C	SP	PKP
SSF	147.571	339.85	1.62	5.44	I	C	SP	PKP
GRR	147.592	345.88	1.62	5.44	I	C	SP	PKP
LPG	147.699	334.74	1.62	5.44	I	C	SP	PKP

Table 189. Station data for event 169 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SMF	147.822	339.10	1.62	5.44	I	C	SP	PKP
AVF	147.859	339.78	1.62	5.44	I	C	SP	PKP
LPF	147.969	345.86	1.62	5.44	I	C	SP	PKP
BGF	148.230	340.15	1.62	5.44	I	C	SP	PKP
MZF	148.617	340.15	1.59	5.35	I	C	SP	PKP
TCF	148.673	340.66	1.59	5.35	I	C	SP	PKP
LSF	148.918	341.44	1.59	5.35	I	C	SP	PKP
CVF	149.035	328.97	1.59	5.35	I	C	SP	PKP
FRF	149.305	332.66	1.59	5.35	I	C	SP	PKP
LRG	149.515	332.86	1.56	5.26	I	C	SP	PKP
RJF	149.770	340.63	1.56	5.26	I	C	SP	PKP
CAF	149.928	339.60	1.56	5.26	I	C	SP	PKP
EPF	152.182	340.11	1.50	5.04	I	C	SP	PKP
PTO	155.991	353.37	1.35	4.54	I	C	LP	PKP
SFS	160.144	345.73	1.17	3.93	I	C	SP	PKP

Table 190. Station data for event 200.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DZM	4.221	221.71	11.90	110.14	I	C	SP	P
NOU	4.395	219.55	11.99	108.96	I	C	SP	P
KOU	5.151	250.76	12.30	104.08	I	D	SP	P
NDF	7.667	82.52	12.66	92.82	I	D	SP	P
HNR	13.198	314.36	12.34	76.68	I	D	LP	P
HNR	13.198	314.36	12.34	76.68	I	D	SP	P
VSG	13.487	314.16	12.30	76.02	I	C	SP	P
PAA	18.516	310.87	10.20	53.57	I	D	SP	P
BGA	18.843	310.54	10.13	53.02	I	D	SP	P
COO	19.702	230.59	9.96	51.76	I	D	SP	P
RMQ	20.522	244.74	9.81	50.71	I	D	SP	P
CTA	21.914	263.13	9.61	49.28	I	D	SP	P
PMG	23.590	290.56	9.41	47.92	I	D	SP	P
PMG	23.590	290.56	9.41	47.92	I	D	LP	P
YOU	24.201	226.63	9.36	47.60	I	D	SP	P
CAN	24.386	223.85	9.35	47.51	I	D	SP	P
KVG	24.462	309.42	9.34	47.46	I	D	SP	P
CMS	24.714	235.03	9.32	47.30	I	D	SP	P
MOM	27.364	305.22	9.01	45.26	I	D	SP	P
TOO	27.994	223.48	8.93	44.77	I	D	SP	P
ISQ	28.184	261.33	8.91	44.64	I	D	SP	P
STK	28.200	237.34	8.91	44.63	I	D	SP	P
TAU	30.358	213.24	8.75	43.63	I	C	LP	P
ADE	31.570	233.36	8.66	43.12	I	D	SP	P
WB3	33.096	262.37	8.57	42.55	I	D	SP	P
ASPA	33.419	255.56	8.55	42.43	I	D	SP	P
MTN	37.314	273.55	8.33	41.08	I	D	SP	P
GUMO	40.392	321.33	8.15	40.03	E	D	LP	P
MBL	46.536	258.50	7.82	38.07	I	D	SP	P
MEK	47.327	250.97	7.76	37.76	I	D	SP	P
NWAO	48.551	242.51	7.66	37.20	I	D	LP	P
RKG	48.810	241.01	7.64	37.08	I	D	SP	P
MRWA	49.529	247.44	7.59	36.76	I	D	SP	P
NAU	50.384	256.07	7.52	36.37	I	D	SP	P
HON	51.120	40.08	7.46	36.04	I	C	LP	P
TRT	56.210	273.36	7.07	33.91	I	D	SP	P
SBA	58.976	180.67	6.87	32.82	I	C	SP	P
BAG	59.546	302.98	6.83	32.57	E	D	LP	P
MAT	62.575	331.91	6.58	31.28	I	C	SP	P
ANP	64.023	311.54	6.47	30.67	E	D	LP	P
SPA	71.192	180.00	5.91	27.77	I	C	SP	P
CN2	74.303	328.49	5.69	26.69	I	C	SP	P
BJI	76.831	320.79	5.53	25.87	E	C	LP	P
TIY	77.752	317.08	5.48	25.59	I	C	SP	P
CHG	78.721	294.40	5.40	25.22	I	D	SP	P
BTO	80.944	318.39	5.19	24.18	I	C	SP	P
GCC	85.184	48.37	4.91	22.79	I	C	SP	P
BKS	85.413	47.53	4.89	22.67	I	C	SP	P
SYP	85.505	51.35	4.88	22.63	I	C	LP	P
MHC	85.580	48.22	4.87	22.60	I	C	SP	P

Table 190. Station data for event 200 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PRI	85.727	49.65	4.86	22.54	I	C	SP	P
WDC	86.483	45.03	4.81	22.30	I	C	SP	P
PAS	86.685	52.34	4.80	22.24	I	C	LP	P
JAS	86.706	48.13	4.80	22.23	I	C	LP	P
ORV	86.705	46.31	4.80	22.23	I	C	SP	P
FRI	86.797	49.24	4.79	22.20	I	C	SP	P
MWC	86.802	52.32	4.79	22.20	I	C	LP	P
GTA	87.069	313.33	4.78	22.13	I	C	SP	P
ISA	87.111	50.87	4.77	22.12	I	C	LP	P
SBB	87.174	51.98	4.77	22.11	I	C	LP	P
BAR	87.206	54.20	4.77	22.10	I	C	LP	P
RVR	87.218	52.77	4.77	22.10	I	C	LP	P
PLM	87.340	53.53	4.77	22.08	I	C	LP	P
SHIO	87.396	297.99	4.76	22.07	E	D	LP	P
CLC	87.821	51.04	4.75	21.99	I	C	LP	P
COR	87.917	41.25	4.74	21.97	I	C	SP	P
GSC	88.191	51.78	4.73	21.92	I	C	LP	P
TPC	88.266	53.12	4.73	21.90	I	C	LP	P
GLA	88.776	54.49	4.71	21.83	I	C	LP	P
COL	89.712	16.83	4.70	21.75	I	C	LP	P
LON	89.874	39.85	4.70	21.76	I	C	LP	P
BMN	90.039	46.99	4.70	21.76	I	C	SP	P
PNT	92.360	38.24	4.64	21.49	I	C	SP	P
NEW	93.395	39.91	4.61	21.34	I	C	SP	P
KKN	93.705	297.96	4.60	21.29	I	D	SP	P
DMN	93.791	297.74	4.60	21.27	I	D	SP	P
LHD	94.345	40.34	4.58	21.16	I	C	SP	P
YKM	94.493	39.74	4.57	21.13	I	C	SP	P
LDM	94.571	40.22	4.57	21.12	I	C	SP	P
CLX	94.586	40.50	4.57	21.11	I	C	SP	P
ANMO	95.941	55.24	4.53	20.94	I	C	LP	P
LTX	96.423	61.33	4.52	20.89	I	C	SP	P
WMQ	97.147	313.78	4.51	20.82	I	D	SP	P
SHA	109.794	63.41	1.89	8.57	E	C	LP	Pdf
BPI	121.585	221.11	1.87	8.49	I	D	SP	PKP
BFS	121.823	219.58	1.87	8.48	I	D	SP	PKP
BUL	125.414	226.70	1.86	8.46	I	D	SP	PKP
KRI	126.889	230.53	1.86	8.44	I	D	SP	PKP
COP	139.410	340.15	1.77	8.04	I	C	SP	PKP
PVL	141.475	316.70	1.74	7.90	I	C	SP	PKP
KSP	141.715	332.50	1.74	7.88	I	D	SP	PKP
IZM	141.926	308.66	1.74	7.87	I	D	SP	PKP
BRG	142.687	334.34	1.72	7.81	I	C	SP	PKP
PRU	143.104	332.89	1.72	7.78	I	C	SP	PKP
MMB	143.141	315.25	1.71	7.77	I	C	SP	PKP
SRS	143.447	314.63	1.71	7.75	I	C	SP	PKP
VKA	143.535	329.48	1.71	7.74	I	C	SP	PKP
MOX	143.790	336.03	1.70	7.72	I	C	SP	PKP
SOP	143.820	328.58	1.70	7.72	I	C	SP	PKP
KNT	143.893	315.10	1.70	7.71	I	C	SP	PKP

Table 190. Station data for event 200 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HOF	143.953	335.46	1.70	7.71	I	C	SP	PKP
VAY	144.036	315.54	1.70	7.70	I	C	SP	PKP
KHC	144.162	332.72	1.70	7.69	I	C	SP	PKP
WTS	144.303	341.59	1.69	7.67	I	C	SP	PKP
WET	144.451	333.34	1.69	7.66	I	C	SP	PKP
LIT	144.655	313.73	1.69	7.64	I	C	SP	PKP
DBN	144.676	343.21	1.69	7.64	I	C	LP	PKP
GRF	144.704	335.38	1.69	7.64	I	C	SP	PKP
KMR	144.711	331.01	1.68	7.64	I	C	LP	PKP
TNS	145.298	338.47	1.67	7.58	I	C	SP	PKP
ZAG	145.374	326.67	1.67	7.57	I	C	SP	PKP
STB	145.515	340.36	1.67	7.56	I	D	SP	PKP
BGG	145.690	339.53	1.66	7.54	I	D	SP	PKP
KBA	145.791	330.53	1.66	7.53	I	D	SP	PKP
LJU	145.958	328.19	1.66	7.51	I	C	SP	PKP
ETA	146.134	355.28	1.65	7.50	I	C	SP	PKP
STU	146.232	336.31	1.65	7.49	E	C	LP	PKP
STU	146.232	336.31	1.65	7.49	E	C	LP	PKP
VOY	146.283	328.74	1.65	7.48	I	C	SP	PKP
ECB	146.504	355.83	1.65	7.46	I	C	SP	PKP
ECP	146.659	355.34	1.64	7.44	I	C	SP	PKP
FLN	149.151	346.99	1.58	7.15	I	C	SP	PKP
GRC	149.596	341.56	1.56	7.09	I	C	SP	PKP
LPF	149.963	347.23	1.55	7.04	I	C	SP	PKP
PLDF	150.605	339.67	1.53	6.95	I	C	SP	PKP
MZF	150.715	341.21	1.53	6.94	I	C	SP	PKP
TCF	150.762	341.75	1.53	6.93	I	C	SP	PKP
CAF	152.034	340.71	1.49	6.74	I	C	SP	PKP
LFF	152.416	342.56	1.47	6.68	I	C	SP	PKP
LPO	152.521	341.70	1.47	6.67	I	C	SP	PKP
EPF	154.278	341.42	1.41	6.37	I	C	SP	PKP
MAL	161.472	344.37	1.09	4.92	I	C	LP	PKP
MBO	172.367	125.27	0.47	2.14	I	C	SP	PKP

Table 191. Station data for event 217.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	4.202	151.48	14.19	56.49	I	C	SP	P
HNR	7.649	306.06	13.96	55.11	I	D	LP	P
NDF	11.429	110.35	13.51	52.55	I	C	SP	P
VUN	12.425	110.14	13.36	51.72	I	C	SP	P
BRS	18.264	221.23	12.27	46.14	I	D	SP	P
PMG	19.211	281.77	12.17	45.65	I	D	LP	P
PMG	19.211	281.77	12.17	45.65	I	D	SP	P
CTA	19.994	249.73	10.44	37.84	I	D	LP	P
CMS	25.510	223.70	9.42	33.61	I	D	SP	P
YOU	25.816	215.60	9.38	33.45	I	D	SP	P
WEL	28.153	166.25	9.18	32.64	E	C	LP	P
STK	28.682	227.59	9.11	32.36	I	D	SP	P
WR2	30.983	254.62	8.82	31.22	I	D	SP	P
WB2	30.994	254.63	8.82	31.22	I	D	SP	P
ASPA	31.972	247.74	8.75	30.94	I	D	SP	P
ADE	32.379	225.09	8.72	30.82	I	D	SP	P
TAU	33.053	205.85	8.68	30.67	I	D	LP	P
GUA	34.571	321.50	8.59	30.31	I	D	LP	P
GUMO	34.637	321.49	8.59	30.31	I	D	LP	P
DAV	45.457	294.93	7.96	27.89	I	D	LP	P
MKS	46.828	276.04	7.88	27.58	I	C	SP	P
NWAO	48.229	238.30	7.81	27.32	I	D	LP	P
NAU	48.696	252.26	7.78	27.20	I	D	SP	P
MUN	48.915	239.74	7.74	27.05	I	D	LP	P
HON	49.683	45.65	7.70	26.90	E	C	LP	P
HON	49.683	45.65	7.70	26.90	E	N	LP	P
BKB2	50.368	280.16	7.62	26.60	I	D	SP	P
PGP	52.506	299.45	7.46	26.00	I	C	SP	P
PPR	52.704	294.05	7.46	26.00	I	D	SP	P
TRT	52.897	270.90	7.42	25.85	I	D	SP	P
MAN	52.978	300.78	7.42	25.85	I	D	SP	P
BAG	54.284	302.33	7.30	25.40	I	D	LP	P
BAG	54.284	302.33	7.30	25.40	I	D	SP	P
SZP	54.980	303.44	7.26	25.25	I	D	SP	P
TSK	55.722	334.50	7.22	25.10	I	D	SP	P
MAT	56.816	333.14	7.11	24.69	I	D	LP	P
MAT	56.816	333.14	7.11	24.69	I	D	SP	P
SHK	57.859	327.41	7.03	24.40	I	D	LP	P
TATO	58.350	311.39	7.00	24.29	I	D	LP	P
ANP	58.453	311.60	7.00	24.29	I	D	LP	P
QZH	60.469	309.58	6.84	23.70	I	D	SP	P
SEO	63.188	325.72	6.64	22.96	I	D	LP	P
GZH	63.537	304.91	6.60	22.82	I	D	SP	P
QIZ	64.501	299.23	6.51	22.49	I	D	SP	P
WHN	66.713	312.38	6.35	21.91	I	D	SP	P
DL2	67.126	323.53	6.31	21.76	I	D	SP	P
MDJ	67.185	332.47	6.31	21.76	I	D	SP	P
SNY	68.060	326.93	6.22	21.44	I	D	SP	P
SNG	68.404	283.64	6.18	21.29	I	D	LP	P
BJI	71.079	321.53	5.99	20.61	I	D	LP	P

Table 191. Station data for event 217 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NST	71.671	291.94	5.96	20.50	I	D	SP	P
KMI	73.065	302.03	5.85	20.11	I	D	LP	P
KMI	73.065	302.03	5.85	20.11	I	D	SP	P
CD2	74.770	307.83	5.71	19.60	I	D	SP	P
BTO	75.222	319.13	5.71	19.60	I	D	SP	P
LZH	77.092	312.59	5.58	19.14	I	D	SP	P
BKS	84.509	48.96	5.02	17.16	I	D	LP	P
JAS	85.855	49.42	4.90	16.73	E	D	LP	P
JAS1	85.861	49.44	4.90	16.73	I	C	SP	P
COL	86.004	17.92	4.90	16.73	I	D	LP	P
COR	86.383	42.45	4.86	16.59	I	D	SP	P
PHC	86.473	35.71	4.86	16.59	I	C	SP	P
LON	88.194	40.87	4.77	16.28	I	D	LP	P
PKI	88.462	298.76	4.75	16.21	I	D	SP	P
KKN	88.634	298.94	4.75	16.21	I	D	SP	P
DMN	88.730	298.72	4.75	16.21	I	D	SP	P
PNT	90.514	39.03	4.70	16.03	I	C	SP	P
WMQ	91.509	314.79	4.68	15.96	I	D	SP	P
HYB	91.935	287.35	4.67	15.93	I	D	SP	P
INK	92.563	18.86	4.66	15.89	I	D	SP	P
LDM	92.905	40.78	4.64	15.82	I	C	SP	P
REX	93.930	45.94	4.61	15.72	I	C	SP	P
EDM	95.486	36.57	4.56	15.54	I	C	SP	P
NDI	95.741	298.00	4.56	15.54	I	D	SP	P
ANMO	95.757	55.57	4.55	15.51	I	D	LP	P
POO	96.546	287.40	4.54	15.47	I	D	SP	P
RSNT	97.406	27.40	4.52	15.40	E	D	LP	P
GOL	97.623	51.09	4.52	15.40	E	C	LP	P
JCT	100.364	61.11	4.45	15.16	E	C	LP	Pdf
FFC	102.362	36.42	4.45	15.16	I	C	SP	Pdf
TUL	104.498	56.14	4.45	15.16	E	D	LP	Pdf
QUE	104.817	297.87	4.45	15.16	I	D	LP	Pdf
SHA	110.359	62.22	1.89	6.38	E	C	LP	PKP
ANT	113.148	123.64	1.89	6.37	I	C	LP	PKP
UPA	115.549	86.65	1.88	6.34	I	C	SP	PKP
BLA	116.902	55.27	1.88	6.34	I	C	SP	PKP
BLA	116.902	55.27	1.88	6.34	E	C	LP	PKP
DAG	117.207	1.29	1.88	6.34	I	C	SP	PKP
LPB	118.360	117.72	1.88	6.33	E	C	LP	PKP
IR2	118.538	303.07	1.88	6.33	I	D	SP	PKP
MNT	120.953	45.16	1.87	6.32	I	C	SP	PKP
SLY	122.926	303.40	1.87	6.31	I	C	SP	PKP
SUR	123.200	215.05	1.87	6.31	I	D	SP	PKP
WES	123.222	48.35	1.87	6.31	E	D	LP	PKP
BFS	123.361	224.07	1.87	6.31	I	D	SP	PKP
SDV	124.162	88.71	1.87	6.30	I	C	SP	PKP
TOV	125.142	87.82	1.87	6.29	I	C	SP	PKP
KRI	127.298	235.82	1.86	6.28	I	D	SP	PKP
NAI	127.634	257.28	1.86	6.27	E	C	LP	PKP
NAI	127.634	257.28	1.86	6.27	I	D	SP	PKP

Table 191. Station data for event 217 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CAR	128.044	87.55	1.86	6.27	I	C	SP	PKP
SJG	129.656	78.02	1.85	6.24	I	C	LP	PKP
ODD	131.752	346.36	1.84	6.21	I	D	SP	PKP
PSN	133.577	317.94	1.83	6.17	I	D	SP	PKP
COP	133.767	339.72	1.83	6.17	E	D	LP	PKP
IST	134.137	314.28	1.83	6.17	E	D	LP	PKP
VTS	137.299	319.07	1.80	6.08	I	C	SP	PKP
MMB	137.460	317.49	1.80	6.08	I	C	SP	PKP
KHC	138.405	332.94	1.79	6.05	I	C	SP	PKP
GRF	138.977	335.27	1.78	6.01	I	C	SP	PKP
ATH	139.123	312.66	1.78	6.01	I	D	SP	PKP
KZN	139.381	316.90	1.78	6.01	I	C	SP	PKP
KBA	140.017	330.98	1.77	5.96	I	D	SP	PKP
FUR	140.137	333.73	1.77	5.96	I	C	SP	PKP
TRI	140.793	329.15	1.75	5.92	I	D	SP	PKP
VAL	142.088	356.43	1.74	5.86	I	D	LP	PKP
PLDF	144.945	338.69	1.68	5.68	I	D	SP	PKP
PYM	145.349	339.15	1.68	5.68	I	D	SP	PKP
FRF	145.753	333.18	1.66	5.61	I	C	SP	PKP
LRG	145.963	333.37	1.66	5.61	I	C	SP	PKP
LMR	145.995	333.08	1.66	5.61	I	C	SP	PKP
BNG	146.729	256.46	1.64	5.53	I	D	SP	PKP
STS	150.901	352.06	1.53	5.15	I	C	SP	PKP
PTO	152.624	351.45	1.46	4.93	I	D	LP	PKP
ALI	153.062	336.46	1.46	4.93	I	D	LP	PKP
MAL	155.897	341.30	1.35	4.54	I	C	SP	PKP
SFS	156.659	344.42	1.30	4.40	I	D	SP	PKP
IFR	159.070	339.37	1.22	4.09	I	D	SP	PKP

Table 192. Station data for event 221.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	7.677	305.94	13.96	55.11	E	C	LP	P
TAU	33.062	205.89	8.68	30.67	E	N	LP	P
GUA	34.594	321.46	8.59	30.31	I	D	LP	P
MKS	46.860	276.04	7.88	27.58	I	C	SP	P
NWAO	48.253	238.31	7.78	27.20	E	N	LP	P
MUN	48.939	239.75	7.74	27.05	E	D	LP	P
HON	49.664	45.62	7.70	26.90	I	D	LP	P
BAG	54.313	302.31	7.30	25.40	I	D	SP	P
BAG	54.313	302.31	7.30	25.40	I	D	LP	P
MAJO	56.834	333.12	7.11	24.69	I	D	LP	P
MAT	56.834	333.12	7.11	24.69	I	D	SP	P
MAT	56.834	333.12	7.11	24.69	I	D	LP	P
TATO	58.376	311.37	7.00	24.29	I	D	LP	P
ANP	58.479	311.59	7.00	24.29	I	D	LP	P
HKC	62.511	304.57	6.68	23.11	I	D	SP	P
SEO	63.210	325.70	6.64	22.96	E	D	LP	P
SNG	68.435	283.63	6.18	21.29	E	D	LP	P
PSI	68.739	278.53	6.18	21.29	I	D	SP	P
CHTO	73.885	294.55	5.78	19.85	I	D	LP	P
SPA	76.052	180.00	5.64	19.35	I	D	SP	P
BRK	84.470	48.94	5.02	17.16	E	D	LP	P
BKS	84.489	48.95	5.02	17.16	I	D	SP	P
JAS	85.835	49.41	4.90	16.73	I	D	LP	P
JAS1	85.841	49.43	4.90	16.73	I	C	SP	P
MIN	85.877	46.84	4.90	16.73	I	C	SP	P
COL	85.999	17.91	4.90	16.73	I	D	LP	P
COR	86.365	42.44	4.86	16.59	E	D	LP	P
LON	88.178	40.86	4.77	16.28	I	D	LP	P
PKI	88.491	298.75	4.75	16.21	I	D	SP	P
KKN	88.663	298.93	4.75	16.21	I	D	SP	P
DMN	88.760	298.71	4.73	16.14	I	D	SP	P
ANMO	95.734	55.56	4.56	15.54	I	D	LP	P
RSNT	97.396	27.40	4.52	15.40	E	D	LP	P
SLR	123.095	226.14	1.87	6.31	I	C	SP	PKP
MTD	125.754	237.11	1.86	6.29	I	C	SP	PKP
NAI	127.663	257.26	1.86	6.27	E	D	LP	PKP
SJG	129.627	78.02	1.85	6.24	E	D	LP	PKP
TRN	133.394	88.54	1.84	6.19	E	D	LP	PKP
COP	133.782	339.74	1.83	6.17	E	D	LP	PKP
IST	134.162	314.29	1.83	6.17	E	D	LP	PKP
LWI	134.827	252.35	1.82	6.14	I	D	LP	PKP
MMB	137.485	317.50	1.80	6.08	I	D	SP	PKP
SKO	138.765	319.29	1.78	6.01	I	C	SP	PKP
STU	140.535	336.05	1.75	5.92	I	C	LP	PKP
TRI	140.813	329.17	1.75	5.92	I	D	SP	PKP
ITR	146.653	131.38	1.64	5.53	I	D	SP	PKP
PTO	152.633	351.50	1.46	4.93	E	D	LP	PKP
LIS	155.088	351.41	1.39	4.67	I	D	SP	PKP

Table 193. Station data for event 222.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	7.876	304.51	13.91	54.82	I	D	LP	P
NOU	8.261	180.44	13.86	54.53	I	C	SP	P
PMG	19.500	281.43	10.59	38.48	I	D	SP	P
PMG	19.500	281.43	10.59	38.48	I	D	LP	P
CTA	20.289	249.86	10.31	37.29	I	D	SP	P
CTA	20.289	249.86	10.31	37.29	I	D	LP	P
RMQ	20.753	230.51	10.17	36.70	I	C	SP	P
CMS	25.743	224.03	9.42	33.61	I	C	SP	P
CAN	26.447	213.56	9.33	33.25	I	C	SP	P
WEL	28.114	166.73	9.18	32.64	I	C	LP	P
STK	28.928	227.84	9.04	32.09	I	C	SP	P
WB2	31.293	254.63	8.79	31.10	I	C	SP	P
WRA	31.304	254.64	8.79	31.10	I	C	SP	P
GUA	34.734	321.05	8.59	30.31	I	C	LP	P
MKS	47.125	275.91	7.88	27.58	I	D	SP	P
NWAO	48.503	238.34	7.78	27.20	I	C	LP	P
HON	49.445	45.41	7.70	26.90	I	C	LP	P
PPR	52.967	293.86	7.42	25.85	I	D	SP	P
MAJO	56.923	332.88	7.11	24.69	I	C	LP	P
MAT	56.923	332.88	7.11	24.69	I	C	LP	P
MAT	56.923	332.88	7.11	24.69	I	C	SP	P
TATO	58.555	311.18	7.00	24.29	I	C	LP	P
SSE	62.493	316.54	6.68	23.11	I	C	LP	P
SEO	63.332	325.51	6.60	22.82	I	C	LP	P
SNG	68.689	283.52	6.18	21.29	I	C	LP	P
BDT	73.506	292.94	5.82	20.00	I	C	SP	P
CHTO	74.115	294.44	5.78	19.85	I	C	LP	P
CHG	74.115	294.44	5.78	19.85	I	C	SP	P
BRK	84.241	48.86	5.05	17.26	I	C	LP	P
JAS	85.605	49.33	4.96	16.94	I	C	LP	P
COL	85.880	17.82	4.90	16.73	I	C	LP	P
COR	86.155	42.36	4.90	16.73	I	C	SP	P
COR	86.155	42.36	4.90	16.73	I	C	LP	P
LON	87.972	40.78	4.77	16.28	I	C	LP	P
ANMO	95.490	55.51	4.56	15.54	I	C	LP	P
POO	96.824	287.34	4.53	15.44	I	C	SP	P
JCT	100.084	61.05	4.45	15.16	I	C	LP	Pdf
TUL	104.229	56.10	4.45	15.16	E	C	LP	Pdf
SHA	110.076	62.19	1.89	6.38	I	C	LP	PKP
ANT	112.915	123.49	1.89	6.37	E	C	LP	PKP
KBS	113.924	354.79	1.88	6.36	E	C	LP	PKP
UPA	115.246	86.57	1.88	6.35	E	C	LP	PKP
BLA	116.635	55.27	1.88	6.34	I	C	LP	PKP
ZOBO	118.201	117.27	1.88	6.33	E	C	LP	PKP
WES	122.974	48.39	1.87	6.31	I	C	LP	PKP
SLY	123.160	303.45	1.87	6.31	I	C	SP	PKP
SUR	123.400	214.82	1.87	6.31	I	C	SP	PKP
BFS	123.594	223.86	1.87	6.30	I	C	SP	PKP
BUL	126.476	231.56	1.86	6.29	I	C	LP	PKP
BUL	126.476	231.56	1.86	6.29	I	C	SP	PKP

Table 193. Station data for event 222 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NAI	127.936	257.18	1.86	6.27	E	C	LP	PKP
SJG	129.354	77.97	1.86	6.26	I	C	LP	PKP
TRN	133.123	88.45	1.84	6.19	E	C	LP	PKP
PSN	133.754	318.11	1.83	6.17	I	C	SP	PKP
IST	134.330	314.43	1.83	6.17	E	C	LP	PKP
HLW	135.822	298.51	1.81	6.12	I	C	LP	PKP
KBA	140.134	331.24	1.77	5.96	I	C	SP	PKP
STU	140.610	336.30	1.75	5.92	I	C	LP	PKP
MZF	145.158	340.34	1.68	5.68	I	C	SP	PKP
CVF	145.616	330.17	1.66	5.61	I	C	SP	PKP
FRF	145.859	333.53	1.66	5.61	I	C	SP	PKP
LRG	146.068	333.72	1.66	5.61	I	C	SP	PKP
CDR	146.140	334.57	1.66	5.61	I	C	SP	PKP
BNG	147.031	256.32	1.64	5.53	I	C	SP	PKP
MLS	148.538	339.28	1.59	5.35	I	C	SP	PKP
ALI	153.151	336.96	1.46	4.93	I	C	LP	PKP
MBO	176.609	83.05	0.19	0.64	I	C	SP	PKP

Table 194. Station data for event 226.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	4.906	158.76	14.15	56.25	I	C	SP	P
HNR	7.368	299.40	13.96	55.11	I	D	LP	P
DZM	8.874	180.03	13.81	54.24	I	C	SP	P
NOU	9.112	179.99	13.81	54.24	I	C	SP	P
CTA	20.533	247.68	10.31	37.29	I	D	LP	P
CTA	20.533	247.68	10.31	37.29	I	D	SP	P
YOU	26.673	214.90	9.33	33.25	I	C	SP	P
CAN	27.123	212.54	9.28	33.04	I	C	SP	P
WAM	27.855	211.50	9.18	32.64	I	C	SP	P
ASPA	32.532	246.54	8.72	30.82	I	D	SP	P
ADE	33.172	224.32	8.68	30.67	I	C	SP	P
GUA	34.033	320.36	8.62	30.43	E	C	LP	P
NWAO	48.896	237.69	7.74	27.05	I	C	LP	P
HON	48.899	45.99	7.74	27.05	I	C	LP	P
MUN	49.566	239.13	7.70	26.90	E	D	LP	P
TRT	53.123	270.18	7.42	25.85	I	D	SP	P
MAT	56.136	332.68	7.18	24.95	I	C	SP	P
MAJO	56.136	332.68	7.18	24.95	I	C	LP	P
TATO	57.945	310.83	7.03	24.40	I	C	LP	P
ANP	58.045	311.04	7.03	24.40	E	C	LP	P
SSE	61.829	316.27	6.72	23.26	I	C	LP	P
SEO	62.593	325.31	6.68	23.11	I	C	LP	P
SNG	68.426	283.22	6.18	21.29	I	C	LP	P
CHTO	73.703	294.24	5.82	20.00	I	C	LP	P
CHG	73.703	294.24	5.82	20.00	I	C	SP	P
LZH	76.668	312.34	5.61	19.25	I	C	SP	P
SPA	76.940	180.00	5.58	19.14	I	C	SP	P
HIN	82.330	21.51	5.14	17.58	E	C	LP	P
JAS	85.102	49.40	4.99	17.05	I	C	LP	P
COR	85.573	42.42	4.96	16.94	E	C	LP	P
LON	87.373	40.83	4.80	16.38	I	C	LP	P
ANMO	95.064	55.46	4.58	15.61	I	C	LP	P
RSNT	96.513	27.32	4.54	15.47	I	C	LP	P
JCT	99.731	60.93	4.47	15.23	E	C	LP	P
SHA	109.738	61.92	1.89	6.38	E	C	LP	PKP
BLA	116.204	54.92	1.88	6.34	E	C	LP	PKP
ZOBO	118.649	116.90	1.88	6.33	E	C	LP	PKP
WES	122.458	47.97	1.87	6.31	E	C	LP	PKP
BPI	123.759	225.84	1.87	6.30	I	C	SP	PKP
SJG	129.238	77.29	1.86	6.26	E	C	LP	PKP
TRN	133.162	87.66	1.84	6.19	E	C	LP	PKP
IST	133.683	314.99	1.83	6.17	E	C	LP	PKP
LWI	135.285	253.09	1.82	6.14	E	C	LP	PKP
LWI	135.285	253.09	1.82	6.14	I	C	SP	PKP
MFF	144.793	343.90	1.68	5.68	I	C	SP	PKP
BNG	147.156	257.64	1.64	5.53	I	C	SP	PKP
PTO	151.783	352.08	1.50	5.05	E	C	LP	PKP

Figure 70. Azimuthal equidistant map for geographic subdivision,
E. New Guinea–Solomon Islands.

FIRST MOTION FM LOCATIONS 1984–1985 E. NEW GUINEA–SOLOMON ISLES.

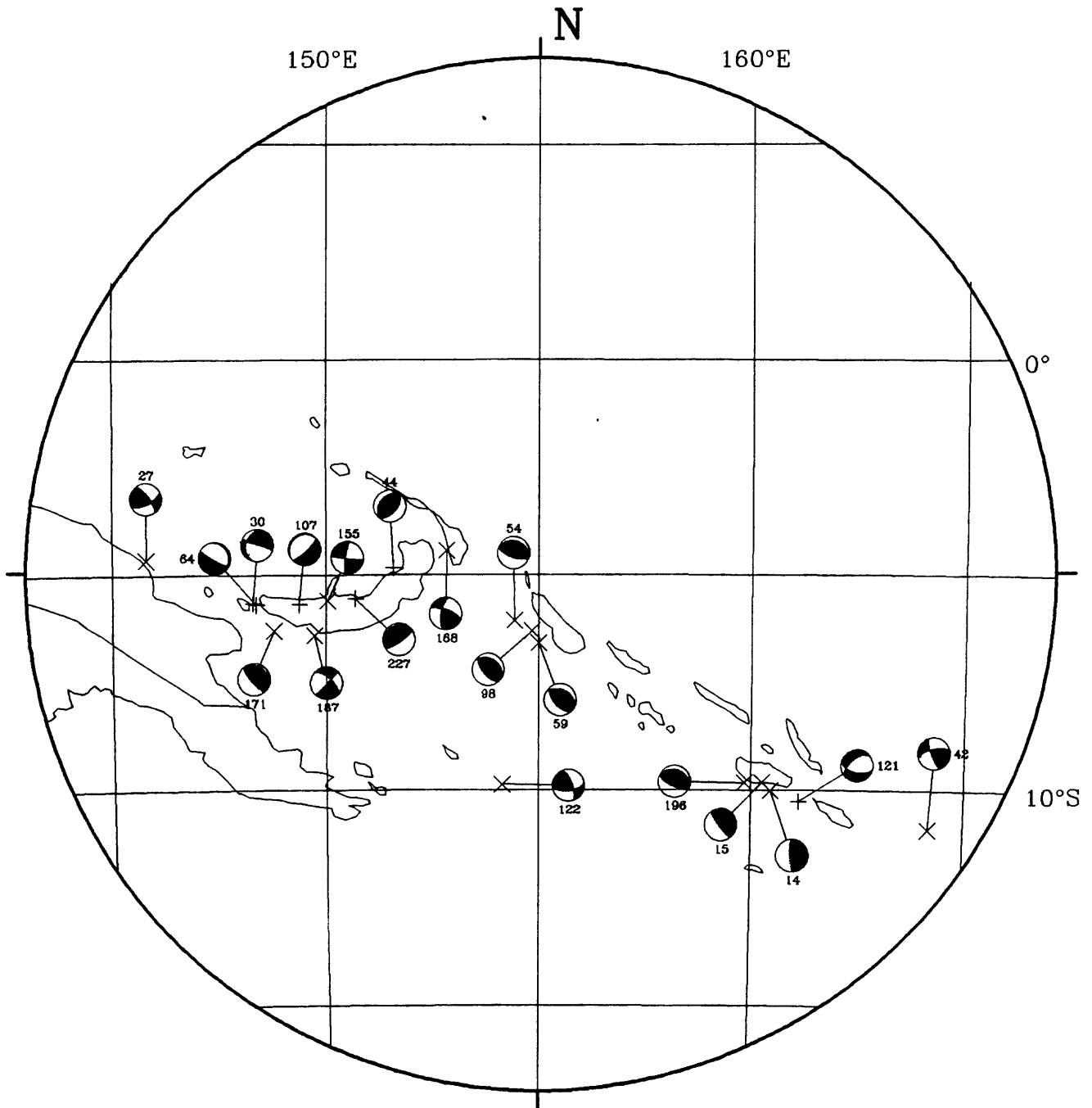


Table 195. Focal mechanism parameters for subdivision,
E.New Guinea- Solomon Islands

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
14	177	78	90	357	12	90	57	87	33	267	0	177
15	144	78	90	324	12	90	57	54	33	234	0	144
27	323	72	152	62	63	20	32	281	6	14	57	113
30	287	88	-120	194	30	-4	36	43	40	170	30	288
42	161	76	155	257	66	15	27	117	7	211	62	314
44	40	55	90	220	35	90	80	310	10	130	0	40
54	110	63	90	290	27	90	72	20	18	200	0	110
59	296	37	70	141	56	104	75	93	9	220	12	312
64	120	81	-100	348	13	-42	35	219	53	18	10	122
98	140	60	100	301	31	73	73	75	14	223	9	315
107	47	80	-90	227	10	-90	35	137	55	317	0	47
121	230	55	-130	106	51	-47	2	347	58	81	32	256
122	340	70	147	83	59	23	37	298	7	33	52	132
155	188	80	-175	97	85	-10	4	143	11	52	79	251
168	190	65	157	290	69	27	33	151	3	59	57	325
171	140	73	90	320	17	90	62	50	28	230	0	140
187	44	88	-150	313	60	-2	19	174	22	273	60	47
196	113	62	90	293	28	90	73	23	17	203	0	113
227	55	77	90	235	13	90	58	325	32	145	0	55

Figure 71. Lower hemisphere focal sphere projection for events 14, 15, 27, and 30.

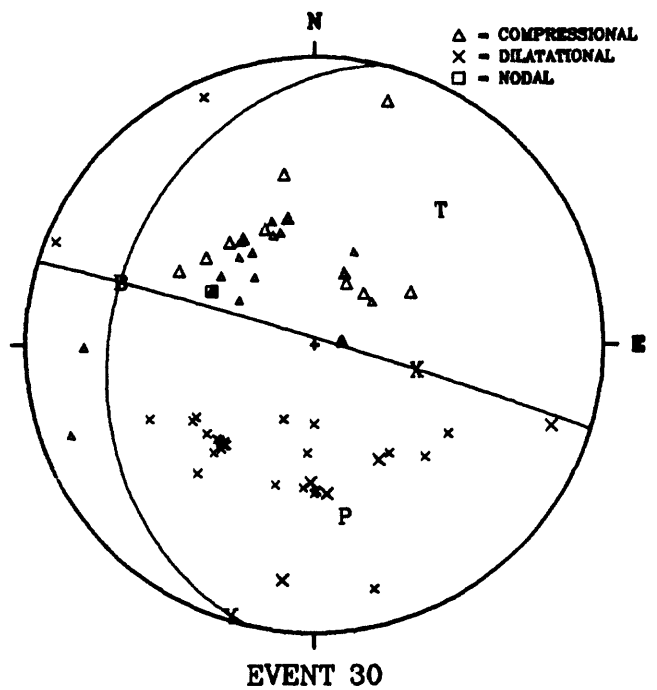
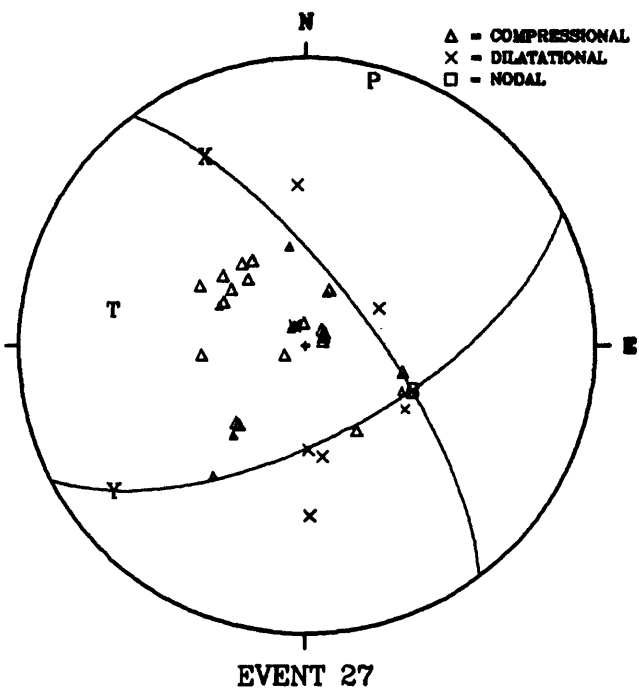
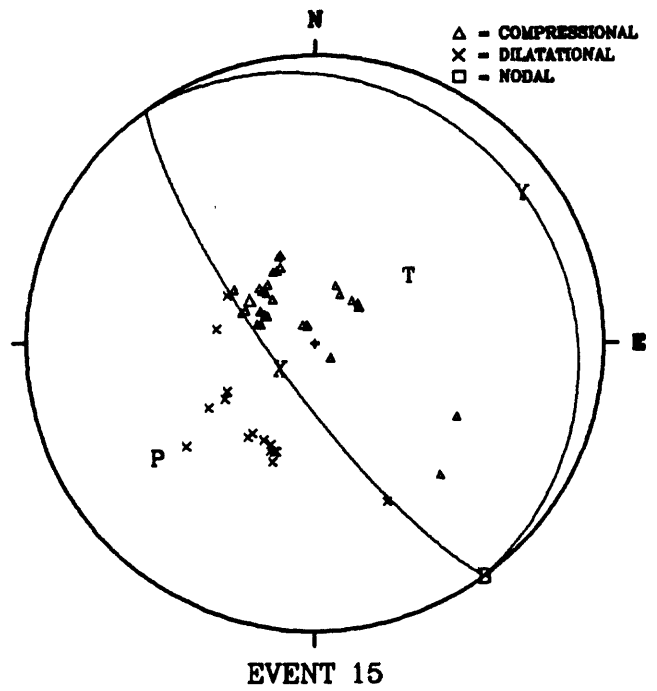
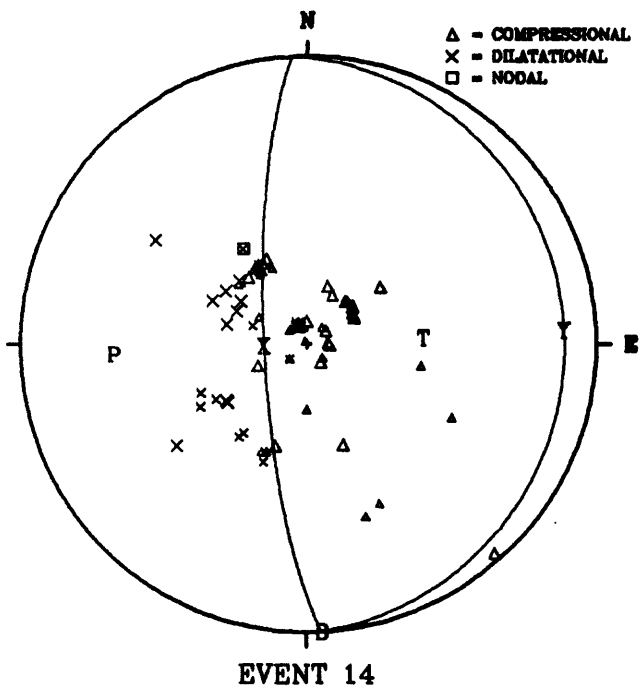


Figure 72. Lower hemisphere focal sphere projection for events 42, 44, 54, and 59.

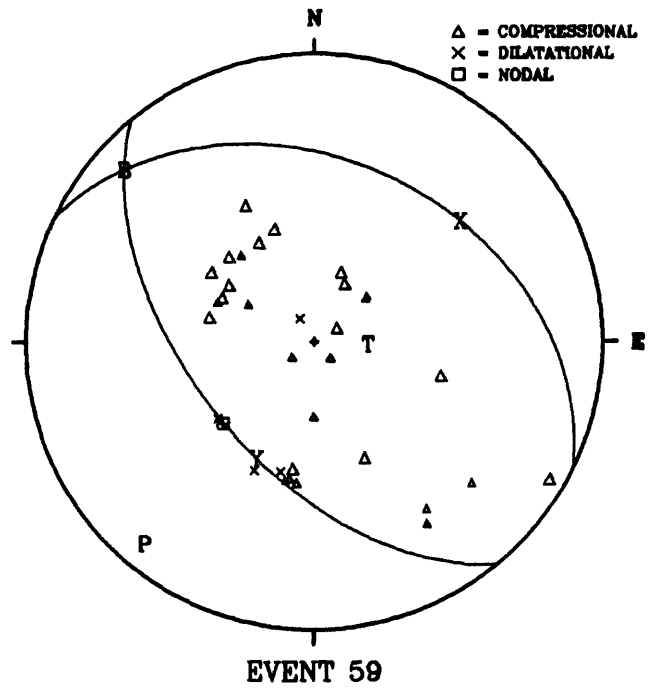
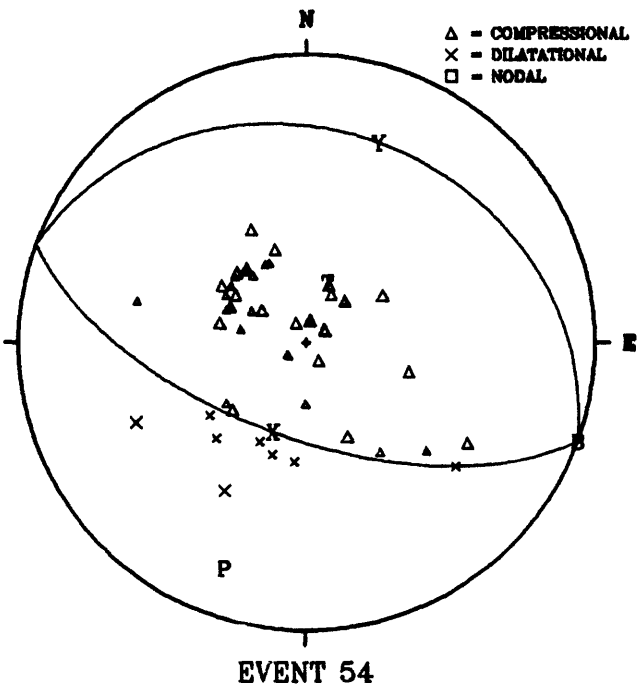
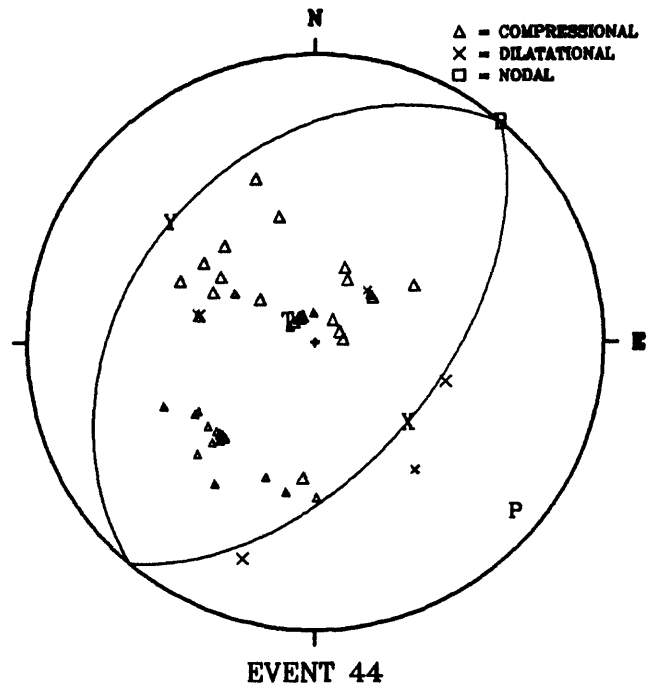
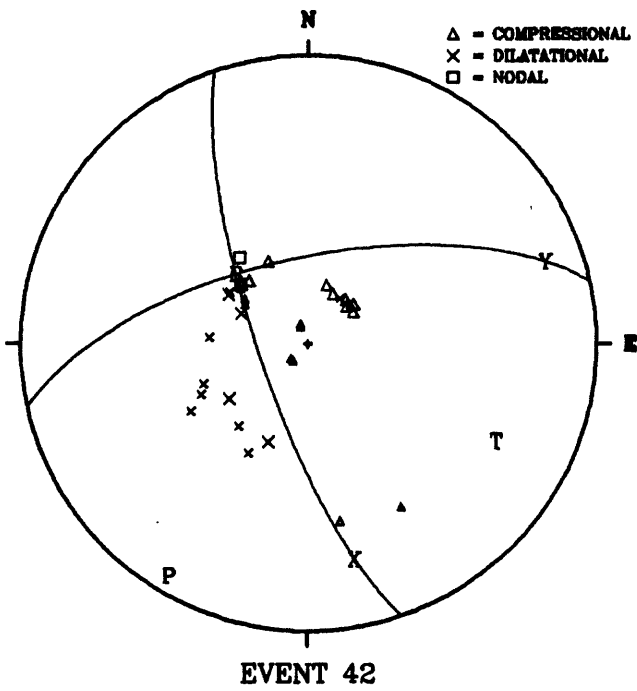


Figure 73. Lower hemisphere focal sphere projection for events 64, 98, 107, and 121.

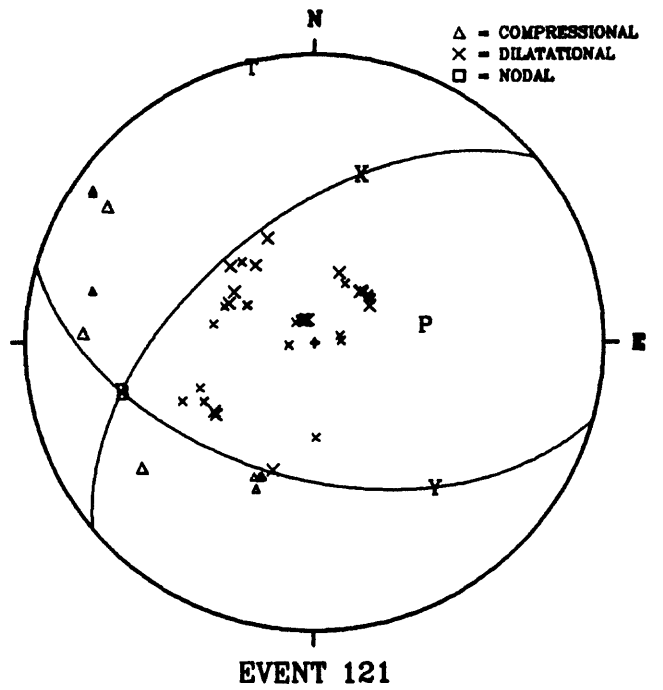
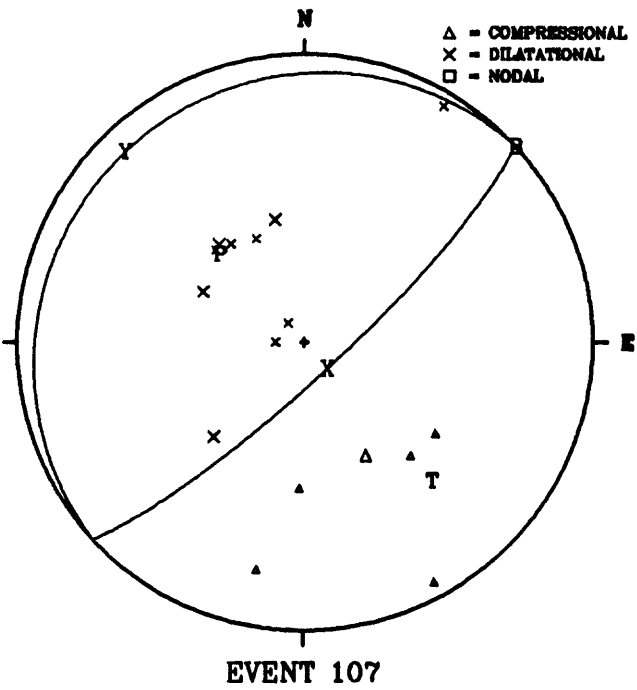
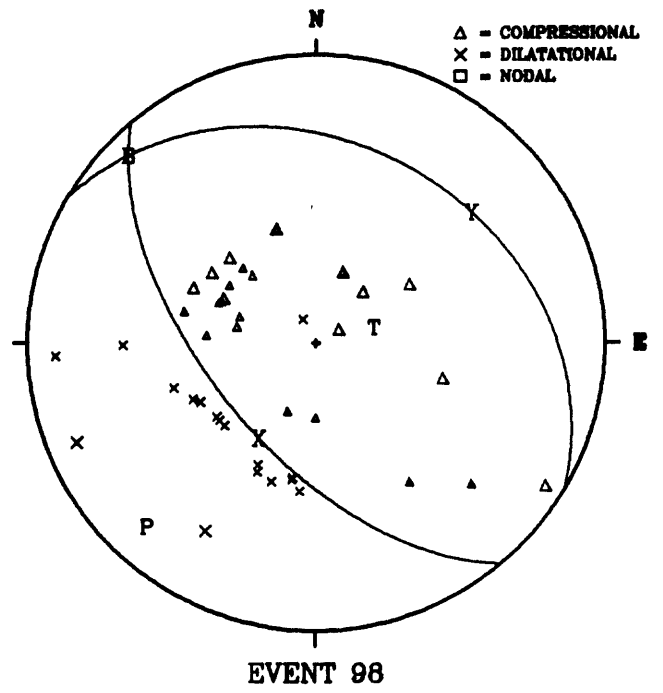
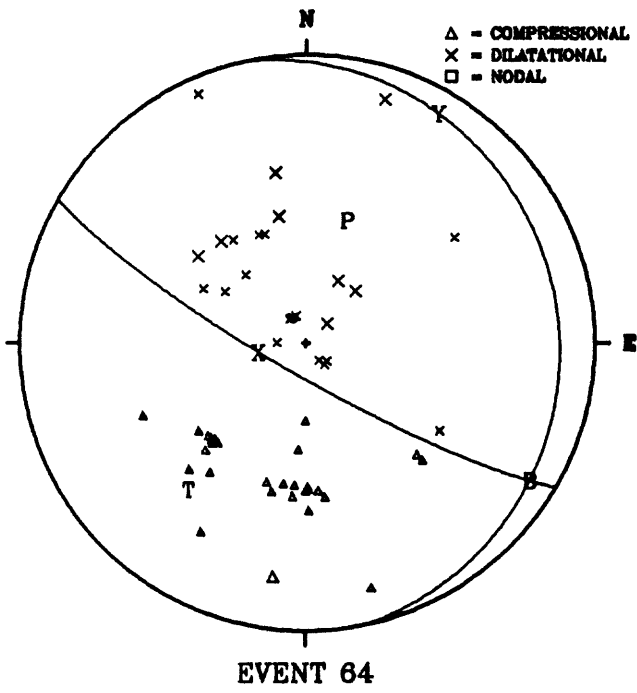


Figure 74. Lower hemisphere focal sphere projection for events 122, 155, 168, and 171.

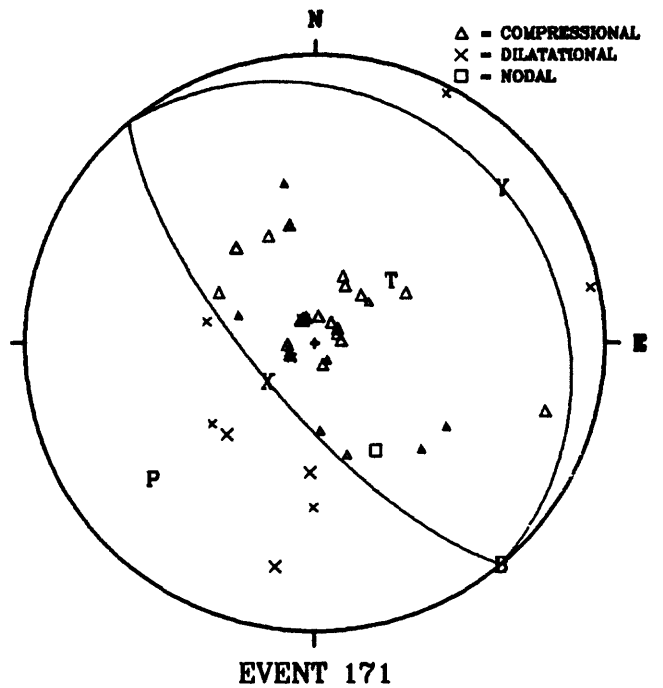
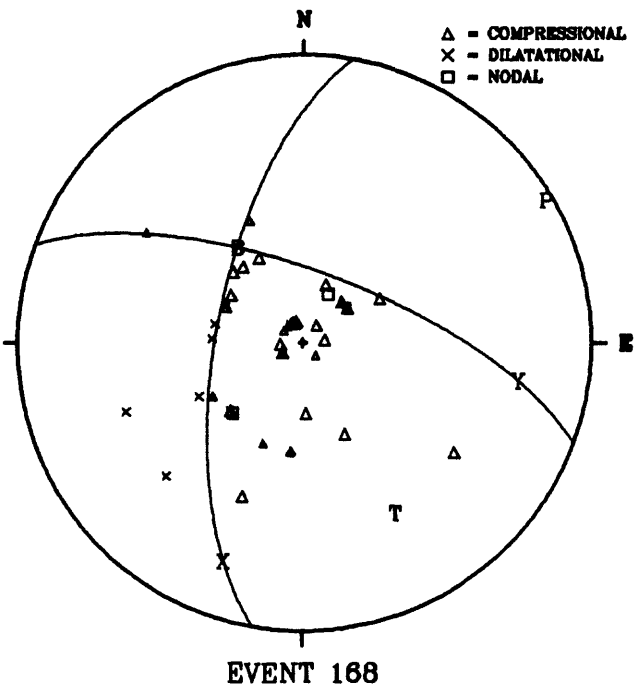
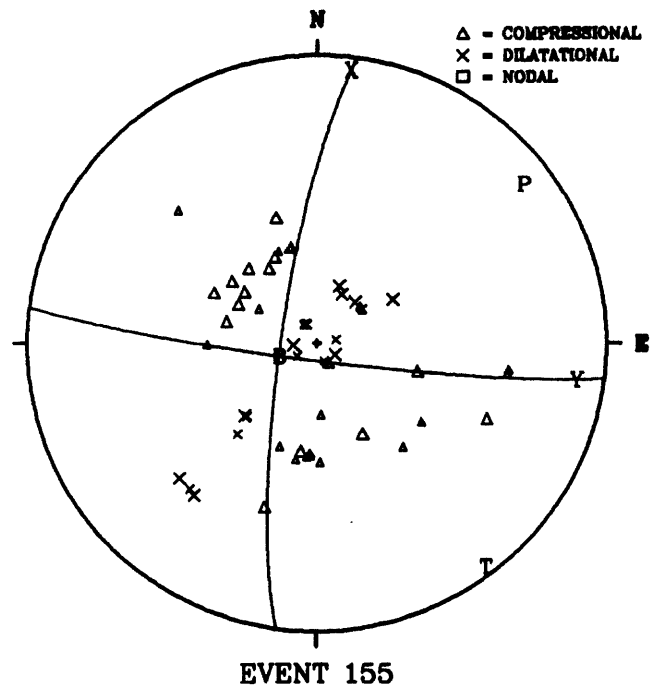
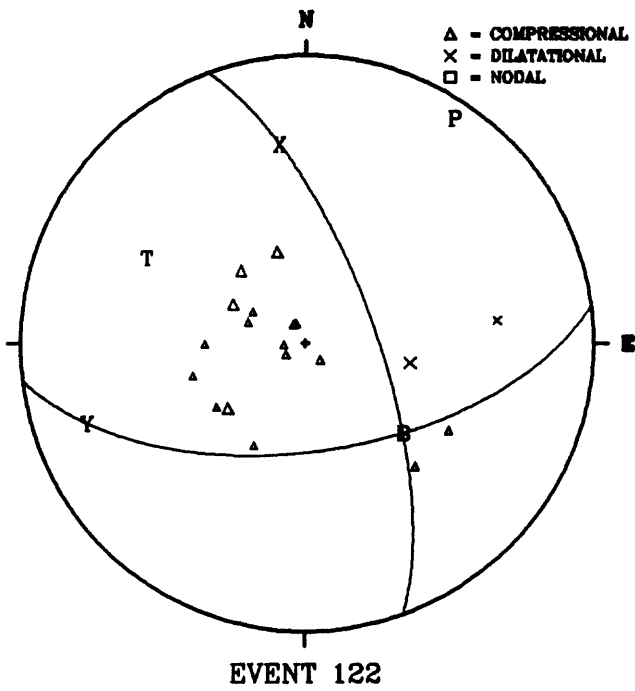


Figure 75. Lower hemisphere focal sphere projection for events 187, 196, and 227.

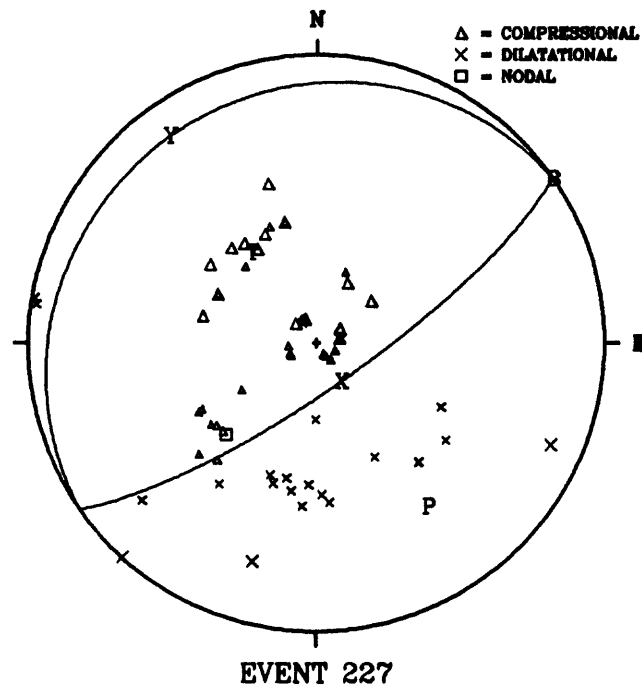
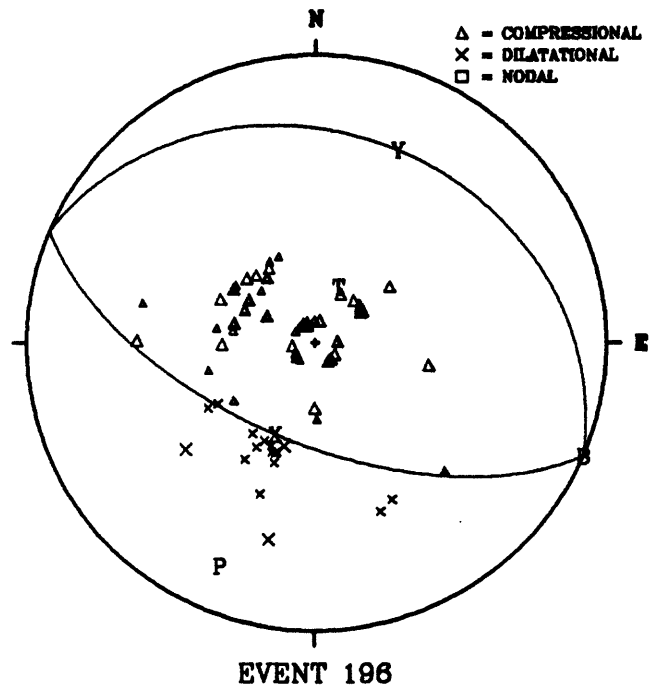
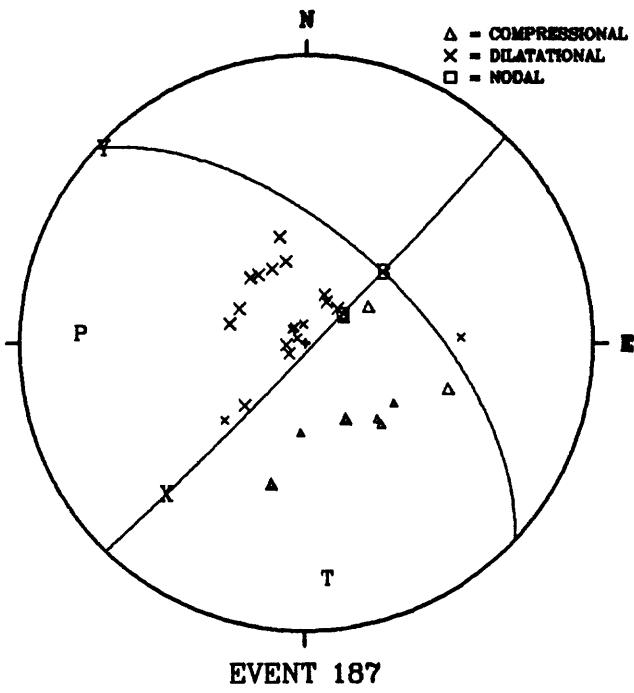


Table 196. Station data for event 14.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	0.772	318.19	17.04	92.68	I	C	LP	P
RAB	10.060	304.50	13.72	53.54	E	D	LP	P
KOU	11.112	161.14	13.60	52.87	I	C	SP	P
NOU	13.505	155.59	13.23	50.86	I	C	SP	P
CTA	16.979	232.22	12.61	47.66	I	D	LP	P
NDF	18.183	116.89	12.41	46.68	I	C	SP	P
COO	21.965	200.11	9.97	35.76	I	D	SP	P
ISQ	22.773	239.70	9.78	34.98	I	D	SP	P
YOU	26.569	202.81	9.34	33.20	I	C	SP	P
WB2	27.054	245.58	9.29	33.00	I	D	SP	P
CAN	27.275	200.79	9.24	32.80	I	C	SP	P
AFI	27.417	100.87	9.24	32.80	I	C	SP	P
STK	27.911	216.02	9.19	32.60	I	D	SP	P
GUA	28.030	326.28	9.19	32.60	I	D	LP	P
GUMO	28.095	326.26	9.19	32.60	E	N	LP	P
WAM	28.103	200.18	9.19	32.60	I	C	SP	P
ADE	31.803	215.29	8.76	30.90	I	D	SP	P
SNZO	33.607	160.44	8.65	30.47	E	C	LP	P
WEL	33.607	160.35	8.65	30.47	I	C	LP	P
TAU	34.725	197.06	8.59	30.24	I	C	LP	P
WBN	35.841	238.87	8.50	29.89	I	D	SP	P
DAV	38.682	294.71	8.35	29.31	I	D	LP	P
NWAO	45.816	233.46	7.94	27.74	I	D	LP	P
MUN	46.328	235.09	7.91	27.63	I	D	LP	P
BAG	47.399	303.26	7.85	27.40	I	D	LP	P
GIF	50.410	334.77	7.62	26.53	E	C	LP	P
OIT	51.027	328.66	7.58	26.38	I	D	SP	P
HON	51.305	52.37	7.54	26.23	I	C	LP	P
TATO	51.507	313.16	7.54	26.23	E	D	LP	P
ANP	51.613	313.39	7.54	26.23	I	D	LP	P
SHN	51.943	328.65	7.50	26.08	E	C	LP	P
MTS	52.101	331.57	7.50	26.08	I	C	LP	P
FKJ	52.101	325.91	7.50	26.08	E	C	LP	P
QZH	53.603	311.16	7.38	25.63	I	C	SP	P
SSE	55.576	318.82	7.22	25.04	E	C	LP	P
SEO	56.780	328.38	7.11	24.63	I	C	LP	P
DL2	60.618	325.83	6.84	23.64	I	C	SP	P
MDJ	61.122	335.25	6.80	23.49	I	C	SP	P
SNG	62.003	283.64	6.72	23.20	I	D	LP	P
KMI	66.182	303.09	6.40	22.04	E	D	LP	P
CHG	67.077	295.30	6.31	21.71	I	D	SP	P
CHTO	67.077	295.30	6.31	21.71	E	D	LP	P
SPA	80.056	180.00	5.37	18.35	I	C	SP	P
COL	84.029	19.68	5.06	17.25	I	C	LP	P
BKS	86.224	50.69	4.91	16.73	I	C	LP	P
WDC	86.733	48.02	4.86	16.55	I	C	SP	P
PRI	86.986	52.69	4.83	16.45	I	C	SP	P
COR	87.319	44.01	4.80	16.34	I	C	LP	P
COR	87.319	44.01	4.80	16.34	I	C	SP	P
JAS	87.615	50.99	4.80	16.34	I	C	LP	P

Table 196. Station data for event 14 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
JAS	87.615	50.99	4.80	16.34	I	C	SP	P
FRI	87.942	52.06	4.77	16.24	I	C	SP	P
LON	88.930	42.23	4.73	16.10	I	C	LP	P
MNA	89.477	50.95	4.71	16.03	I	C	SP	P
POO	89.968	288.71	4.71	16.03	I	D	SP	P
LHD	93.402	41.74	4.63	15.75	I	C	SP	P
LDM	93.597	41.58	4.63	15.75	I	C	SP	P
RSNT	96.463	27.76	4.54	15.43	I	C	LP	P
EPT	97.744	59.14	4.52	15.37	E	C	LP	P
QUE	97.975	299.23	4.51	15.33	I	C	SP	P
ANMO	98.155	55.97	4.51	15.33	I	C	LP	P
ALQ	98.154	55.97	4.51	15.33	I	C	LP	P
PCR	100.029	246.33	4.45	15.12	E	C	LP	Pdf
JCT	103.347	60.99	4.45	15.12	I	C	LP	Pdf
TUL	106.902	55.51	1.89	6.36	E	C	LP	Pdf
DAG	113.262	359.81	1.89	6.35	I	C	LP	PKP
SEK	120.599	228.68	1.87	6.30	I	D	SP	PKP
MNT	121.942	42.17	1.87	6.30	I	C	SP	PKP
LPA	122.417	142.79	1.87	6.30	E	C	LP	PKP
KSR	122.465	230.69	1.87	6.30	I	C	SP	PKP
BOG	125.697	91.48	1.86	6.27	I	C	LP	PKP
COP	127.998	337.63	1.86	6.26	E	C	LP	PKP
COP	127.998	337.63	1.86	6.26	I	D	LP	PKP
DST	128.118	312.98	1.86	6.26	I	C	SP	PKP
ELL	128.121	309.13	1.86	6.26	I	C	SP	PKP
HOF	132.186	333.19	1.84	6.20	I	C	SP	PKP
BNS	133.650	336.87	1.83	6.15	I	C	SP	PKP
FUR	134.003	331.53	1.83	6.15	I	C	SP	PKP
STU	134.505	333.52	1.82	6.13	E	C	LP	PKP
GRC	138.203	336.88	1.79	6.03	I	C	SP	PKP
TRN	138.824	85.26	1.78	5.99	E	C	LP	PKP
BAO	142.005	131.77	1.74	5.85	I	C	SP	PKP
ALI	147.010	331.89	1.64	5.52	I	D	LP	PKP
TOL	147.220	337.70	1.64	5.52	I	C	LP	PKP
PTO	147.532	344.53	1.62	5.43	I	C	LP	PKP
ALM	149.139	332.67	1.59	5.34	I	D	SP	PKP
LIS	149.945	343.65	1.56	5.25	I	D	SP	PKP
SFS	151.032	337.44	1.53	5.15	I	C	SP	PKP
MBO	174.973	330.20	0.31	1.06	I	C	SP	PKP

Table 197. Station data for event 15.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	0.772	318.19	17.04	92.68	I	C	LP	P
RAB	10.060	304.50	13.72	53.54	E	D	LP	P
KOU	11.112	161.14	13.60	52.87	I	C	SP	P
NOU	13.505	155.59	13.23	50.86	I	C	SP	P
CTA	16.979	232.22	12.61	47.66	I	D	LP	P
NDF	18.183	116.89	12.41	46.68	I	C	SP	P
COO	21.965	200.11	9.97	35.76	I	D	SP	P
ISQ	22.773	239.70	9.78	34.98	I	D	SP	P
YOU	26.569	202.81	9.34	33.20	I	C	SP	P
WB2	27.054	245.58	9.29	33.00	I	D	SP	P
CAN	27.275	200.79	9.24	32.80	I	C	SP	P
AFI	27.417	100.87	9.24	32.80	I	C	SP	P
STK	27.911	216.02	9.19	32.60	I	D	SP	P
GUA	28.030	326.28	9.19	32.60	I	D	LP	P
GUMO	28.095	326.26	9.19	32.60	E	N	LP	P
WAM	28.103	200.18	9.19	32.60	I	C	SP	P
ADE	31.803	215.29	8.76	30.90	I	D	SP	P
SNZO	33.607	160.44	8.65	30.47	E	C	LP	P
WEL	33.607	160.35	8.65	30.47	I	C	LP	P
TAU	34.725	197.06	8.59	30.24	I	C	LP	P
WBN	35.841	238.87	8.50	29.89	I	D	SP	P
DAV	38.682	294.71	8.35	29.31	I	D	LP	P
NWAO	45.816	233.46	7.94	27.74	I	D	LP	P
MUN	46.328	235.09	7.91	27.63	I	D	LP	P
BAG	47.399	303.26	7.85	27.40	I	D	LP	P
GIF	50.410	334.77	7.62	26.53	E	C	LP	P
OIT	51.027	328.66	7.58	26.38	I	D	SP	P
HON	51.305	52.37	7.54	26.23	I	C	LP	P
TATO	51.507	313.16	7.54	26.23	E	D	LP	P
ANP	51.613	313.39	7.54	26.23	I	D	LP	P
SHN	51.943	328.65	7.50	26.08	E	C	LP	P
MTS	52.101	331.57	7.50	26.08	I	C	LP	P
FKJ	52.101	325.91	7.50	26.08	E	C	LP	P
QZH	53.603	311.16	7.38	25.63	I	C	SP	P
SSE	55.576	318.82	7.22	25.04	E	C	LP	P
SEO	56.780	328.38	7.11	24.63	I	C	LP	P
DL2	60.618	325.83	6.84	23.64	I	C	SP	P
MDJ	61.122	335.25	6.80	23.49	I	C	SP	P
SNG	62.003	283.64	6.72	23.20	I	D	LP	P
KMI	66.182	303.09	6.40	22.04	E	D	LP	P
CHG	67.077	295.30	6.31	21.71	I	D	SP	P
CHTO	67.077	295.30	6.31	21.71	E	D	LP	P
SPA	80.056	180.00	5.37	18.35	I	C	SP	P
COL	84.029	19.68	5.06	17.25	I	C	LP	P
BKS	86.224	50.69	4.91	16.73	I	C	LP	P
WDC	86.733	48.02	4.86	16.55	I	C	SP	P
PRI	86.986	52.69	4.83	16.45	I	C	SP	P
COR	87.319	44.01	4.80	16.34	I	C	LP	P
COR	87.319	44.01	4.80	16.34	I	C	SP	P
JAS	87.615	50.99	4.80	16.34	I	C	LP	P

Table 197. Station data for event 15 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
JAS	87.615	50.99	4.80	16.34	I	C	SP	P
FRI	87.942	52.06	4.77	16.24	I	C	SP	P
LON	88.930	42.23	4.73	16.10	I	C	LP	P
MNA	89.477	50.95	4.71	16.03	I	C	SP	P
POO	89.968	288.71	4.71	16.03	I	D	SP	P
LHD	93.402	41.74	4.63	15.75	I	C	SP	P
LDM	93.597	41.58	4.63	15.75	I	C	SP	P
RSNT	96.463	27.76	4.54	15.43	I	C	LP	P
EPT	97.744	59.14	4.52	15.37	E	C	LP	P
QUE	97.975	299.23	4.51	15.33	I	C	SP	P
ANMO	98.155	55.97	4.51	15.33	I	C	LP	P
ALQ	98.154	55.97	4.51	15.33	I	C	LP	P
PCR	100.029	246.33	4.45	15.12	E	C	LP	Pdf
JCT	103.347	60.99	4.45	15.12	I	C	LP	Pdf
TUL	106.902	55.51	1.89	6.36	E	C	LP	Pdf
DAG	113.262	359.81	1.89	6.35	I	C	LP	PKP
SEK	120.599	228.68	1.87	6.30	I	D	SP	PKP
MNT	121.942	42.17	1.87	6.30	I	C	SP	PKP
LPA	122.417	142.79	1.87	6.30	E	C	LP	PKP
KSR	122.465	230.69	1.87	6.30	I	C	SP	PKP
BOG	125.697	91.48	1.86	6.27	I	C	LP	PKP
COP	127.998	337.63	1.86	6.26	E	C	LP	PKP
COP	127.998	337.63	1.86	6.26	I	D	LP	PKP
DST	128.118	312.98	1.86	6.26	I	C	SP	PKP
ELL	128.121	309.13	1.86	6.26	I	C	SP	PKP
HOF	132.186	333.19	1.84	6.20	I	C	SP	PKP
BNS	133.650	336.87	1.83	6.15	I	C	SP	PKP
FUR	134.003	331.53	1.83	6.15	I	C	SP	PKP
STU	134.505	333.52	1.82	6.13	E	C	LP	PKP
GRC	138.203	336.88	1.79	6.03	I	C	SP	PKP
TRN	138.824	85.26	1.78	5.99	E	C	LP	PKP
BAO	142.005	131.77	1.74	5.85	I	C	SP	PKP
ALI	147.010	331.89	1.64	5.52	I	D	LP	PKP
TOL	147.220	337.70	1.64	5.52	I	C	LP	PKP
PTO	147.532	344.53	1.62	5.43	I	C	LP	PKP
ALM	149.139	332.67	1.59	5.34	I	D	SP	PKP
LIS	149.945	343.65	1.56	5.25	I	D	SP	PKP
SFS	151.032	337.44	1.53	5.15	I	C	SP	PKP
MBO	174.973	330.20	0.31	1.06	I	C	SP	PKP

Table 198. Station data for event 27.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CTA	15.352	178.40	12.87	49.08	I	D	LP	P
GUA	18.085	357.20	12.39	46.67	I	D	LP	P
WB2	18.856	215.31	12.18	45.65	I	C	SP	P
DAV	23.313	299.87	9.68	34.64	E	C	LP	P
PVC	25.581	122.34	9.42	33.58	I	D	SP	P
WBN	28.203	218.78	9.19	32.65	I	C	SP	P
RIV	29.456	170.91	8.97	31.78	I	D	LP	P
BAG	32.557	310.53	8.72	30.80	I	C	LP	P
VUN	34.582	115.21	8.59	30.29	I	C	SP	P
ANP	37.893	322.64	8.38	29.47	E	C	LP	P
LEM	38.051	264.89	8.38	29.47	I	C	LP	P
TAU	38.121	178.20	8.38	29.47	I	D	LP	P
NWAO	38.760	219.98	8.32	29.24	E	C	LP	P
MUN	38.831	222.02	8.32	29.24	I	C	LP	P
MAT	41.580	350.77	8.18	28.70	I	C	SP	P
SSE	42.606	328.14	8.13	28.51	E	C	LP	P
AFI	42.796	105.40	8.10	28.40	I	C	LP	P
SNZO	44.737	148.85	8.02	28.09	E	C	LP	P
NST	49.508	295.03	7.70	26.88	I	C	SP	P
KMI	51.232	307.45	7.58	26.43	E	C	LP	P
CHG	51.698	298.26	7.54	26.28	I	C	LP	P
LZH	56.411	319.44	7.15	24.82	E	C	LP	P
HON	60.784	62.57	6.80	23.53	E	D	LP	P
COL	84.407	23.13	5.02	17.14	E	C	LP	P
INK	90.839	21.53	4.70	16.02	I	C	SP	P
DAG	107.436	356.32	1.89	6.37	E	C	LP	Pdf
BUL	113.605	245.79	1.88	6.35	E	C	LP	PKP
COP	117.002	332.48	1.88	6.33	E	D	LP	PKP
SHA	123.107	56.25	1.87	6.30	E	C	LP	PKP
GWF	123.368	328.26	1.87	6.30	I	C	SP	PKP
BSF	124.504	327.57	1.87	6.29	I	C	SP	PKP
ROF	124.538	327.37	1.87	6.29	I	C	SP	PKP
CVF	126.316	321.24	1.86	6.28	I	C	SP	PKP
GRC	126.793	329.02	1.86	6.27	I	C	SP	PKP
BLA	126.799	46.05	1.86	6.27	I	C	LP	PKP
SMF	126.815	327.97	1.86	6.27	I	C	SP	PKP
AVF	126.978	328.38	1.86	6.27	I	C	SP	PKP
FLN	127.518	332.41	1.86	6.27	I	C	SP	PKP
MZF	127.756	328.27	1.86	6.27	I	C	SP	PKP
LPF	128.302	332.11	1.86	6.27	I	C	SP	PKP
CAF	128.876	327.33	1.86	6.25	I	C	SP	PKP
SJG	146.017	64.23	1.66	5.60	I	C	LP	PKP
TRN	152.397	75.93	1.50	5.04	I	C	LP	PKP

Table 199. Station data for event 30.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MOM	3.691	345.98	12.87	104.14	I	D	SP	P
PMG	3.904	196.79	12.95	102.69	I	C	LP	P
RAB	4.122	69.62	13.02	101.24	I	C	SP	P
ALOA	5.058	156.09	13.19	96.39	I	D	SP	P
JAY	8.186	292.04	13.23	85.75	I	D	SP	P
HNR	12.146	108.73	12.86	75.75	I	D	LP	P
CTA	14.488	187.69	12.53	70.77	I	D	LP	P
TLE	15.472	269.27	12.37	68.80	I	C	SP	P
MTN	18.381	245.90	10.48	52.17	I	D	SP	P
GUA	19.352	350.02	10.25	50.54	I	C	LP	P
GUMO	19.408	349.92	10.23	50.44	E	C	LP	P
WB3	19.624	222.44	10.18	50.09	I	D	SP	P
WB2	19.640	222.41	10.18	50.06	I	D	SP	P
PVC	22.957	123.24	9.59	46.24	I	D	SP	P
NOU	24.128	135.10	9.44	45.36	I	D	SP	P
DAV	25.963	298.88	9.27	44.31	I	C	LP	P
RIV	28.163	174.95	9.01	42.73	I	D	LP	P
RIV	28.163	174.95	9.01	42.73	I	D	SP	P
YOU	28.485	179.85	8.96	42.46	I	D	SP	P
WBN	29.081	223.19	8.90	42.11	I	D	SP	P
CAN	29.532	178.83	8.85	41.84	I	D	SP	P
WAM	30.400	179.06	8.79	41.48	I	D	SP	P
ADE	30.487	195.64	8.78	41.44	I	D	SP	P
MBL	31.600	238.10	8.71	41.00	I	D	SP	P
TOO	31.874	184.22	8.69	40.91	I	D	SP	P
BAG	35.100	309.07	8.50	39.81	I	C	LP	P
MEK	35.204	230.41	8.49	39.77	I	D	SP	P
KLG	35.507	221.99	8.47	39.67	I	D	SP	P
NAU	35.837	238.79	8.45	39.56	I	D	SP	P
TAU	37.113	181.19	8.38	39.14	I	D	SP	P
TAU	37.113	181.19	8.38	39.14	I	D	LP	P
KLB	38.512	224.13	8.29	38.67	I	D	SP	P
BAL	38.697	226.25	8.28	38.62	I	D	SP	P
NWAO	39.656	222.84	8.23	38.35	E	D	LP	P
NWAO	39.656	222.84	8.23	38.35	I	D	SP	P
MUN	39.815	224.84	8.22	38.29	I	D	SP	P
TATO	40.081	320.53	8.21	38.21	E	C	LP	P
ANP	40.211	320.78	8.20	38.16	I	C	LP	P
RKG	40.489	221.60	8.18	38.07	I	D	SP	P
TCW	42.339	150.61	8.09	37.56	I	D	SP	P
GNZ	42.472	144.89	8.08	37.53	I	D	SP	P
SHK	42.592	340.83	8.08	37.50	I	C	SP	P
SNZO	42.623	150.34	8.08	37.49	I	D	LP	P
MAJO	43.013	348.07	8.05	37.35	I	C	LP	P
MAT	43.013	348.07	8.05	37.35	I	C	SP	P
SSE	44.786	326.29	7.96	36.83	E	C	LP	P
NJ2	46.813	325.08	7.83	36.18	I	C	SP	P
SEO	47.362	336.86	7.80	36.01	I	C	LP	P
MDJ	52.780	343.28	7.37	33.74	I	C	SP	P
CN2	53.366	339.49	7.32	33.49	I	C	SP	P

Table 199. Station data for event 30 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KMI	53.811	306.69	7.29	33.31	I	C	SP	P
XAN	54.238	319.52	7.25	33.13	I	C	SP	P
CHG	54.355	297.82	7.24	33.08	I	C	SP	P
CHTO	54.355	297.82	7.24	33.08	E	N	LP	P
BTO	57.888	326.16	6.99	31.79	I	C	SP	P
HON	59.064	61.17	6.90	31.32	E	C	LP	P
DRV	61.182	183.76	6.73	30.46	I	D	SP	P
ADK	64.625	23.19	6.45	29.09	I	C	SP	P
WMQ	73.369	318.84	5.78	25.83	I	C	SP	P
NDI	76.297	301.18	5.59	24.93	I	C	SP	P
MAW	83.067	202.63	5.08	22.50	I	D	SP	P
COL	84.358	22.64	5.00	22.13	I	C	LP	P
COL	84.358	22.64	5.00	22.13	I	C	SP	P
SPA	84.391	180.00	5.00	22.12	I	D	SP	P
MHC	93.434	52.99	4.61	20.34	I	C	SP	P
LON	93.997	43.58	4.60	20.29	E	C	LP	P
RSNT	98.268	27.76	4.49	19.77	E	C	LP	P
UPA	132.469	83.03	1.84	7.96	E	C	LP	PKP
TOV	142.050	81.38	1.74	7.51	I	C	SP	PKP

Table 200. Station data for event 42.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVC	7.891	150.01	13.92	54.80	I	C	SP	P
NOU	11.554	169.46	13.52	52.53	I	C	SP	P
CTA	19.528	239.95	10.60	38.48	I	D	SP	P
COO	22.669	208.45	9.86	35.37	I	D	SP	P
ISQ	25.596	244.57	9.42	33.57	I	D	SP	P
WRA	30.097	248.99	8.91	31.54	I	D	SP	P
GUMO	30.964	321.31	8.82	31.18	E	N	LP	P
ADE	33.341	220.00	8.65	30.52	I	D	SP	P
TAU	35.111	201.75	8.56	30.17	I	D	LP	P
MKS	44.594	273.61	8.02	28.09	I	D	SP	P
NWAO	48.278	235.43	7.78	27.18	I	D	LP	P
CVP	50.574	303.75	7.62	26.57	I	D	SP	P
BAG	50.955	301.54	7.58	26.42	E	D	LP	P
SZP	51.619	302.73	7.54	26.27	I	D	SP	P
MAJO	53.141	333.84	7.42	25.82	I	C	LP	P
TATO	54.805	311.14	7.26	25.23	E	N	LP	P
ANP	54.904	311.36	7.26	25.23	I	C	LP	P
QZH	56.959	309.32	7.11	24.67	I	C	SP	P
SSE	58.681	316.78	7.00	24.26	E	C	LP	P
GYA	67.067	304.80	6.31	21.74	I	C	SP	P
KMI	69.735	301.92	6.11	21.02	I	C	SP	P
CHTO	70.762	294.35	6.00	20.62	I	D	LP	P
COL	83.660	18.61	5.08	17.35	I	C	LP	P
JAS	85.350	50.14	4.96	16.93	I	C	LP	P
LON	87.147	41.44	4.83	16.47	I	C	LP	P
BMN	88.454	48.47	4.75	16.19	I	C	SP	P
EDM	94.163	36.71	4.61	15.70	I	D	SP	P
RSNT	95.547	27.47	4.56	15.53	I	C	LP	P
ANMO	95.627	55.64	4.56	15.53	I	C	LP	P
RSSD	98.757	46.75	4.48	15.25	I	C	LP	P
GRM	120.322	220.85	1.87	6.32	I	C	SP	PKP
SLR	123.721	229.00	1.87	6.30	I	C	SP	PKP
GRC	140.369	339.79	1.77	5.96	I	C	SP	PKP
ALM	151.486	337.16	1.53	5.15	I	C	SP	PKP

Table 201. Station data for event 44.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CTA	16.013	198.43	12.25	67.84	I	D	LP	P
GUA	19.421	340.15	10.21	50.53	I	C	LP	P
ISQ	19.631	215.48	10.16	50.18	I	C	SP	P
MTN	21.697	247.16	9.76	47.54	I	C	SP	P
WRA	22.513	226.72	9.63	46.71	I	C	SP	P
NOU	22.553	141.70	9.62	46.68	I	D	SP	P
COO	25.597	179.37	9.30	44.68	I	C	SP	P
CMS	27.045	190.85	9.16	43.85	I	C	SP	P
DAV	28.528	294.35	8.95	42.56	I	C	LP	P
WBN	31.944	225.89	8.68	41.03	I	C	SP	P
ADE	32.251	200.05	8.67	40.93	I	C	SP	P
MBL	34.808	239.35	8.51	40.05	I	C	SP	P
AFI	37.212	106.59	8.37	39.24	I	D	LP	P
BAG	37.223	305.20	8.37	39.23	I	C	LP	P
TAU	38.091	185.07	8.31	38.94	I	C	LP	P
MEK	38.253	232.02	8.30	38.88	I	C	SP	P
KLG	38.323	224.14	8.30	38.86	I	C	SP	P
NAU	39.055	239.78	8.27	38.68	I	C	SP	P
KLB	41.389	225.92	8.14	37.96	I	C	SP	P
BAL	41.635	227.90	8.12	37.88	I	C	SP	P
TATO	41.640	316.78	8.12	37.88	I	C	LP	P
ANP	41.758	317.04	8.11	37.83	I	C	LP	P
NWAO	42.493	224.62	8.08	37.65	E	C	LP	P
MUN	42.711	226.49	8.07	37.59	I	C	SP	P
MAJO	43.021	344.16	8.05	37.48	I	C	LP	P
RKG	43.286	223.39	8.03	37.38	I	C	SP	P
SNG	52.238	282.87	7.41	34.07	I	C	LP	P
HON	55.823	60.29	7.13	32.63	I	C	LP	P
KMI	56.001	304.60	7.12	32.56	I	C	LP	P
CHTO	56.907	296.02	7.06	32.24	I	C	LP	P
CHG	56.907	296.02	7.06	32.24	I	C	LP	P
PKI	71.407	301.04	5.92	26.57	I	C	SP	P
KKN	71.577	301.23	5.91	26.51	I	C	SP	P
DMN	71.676	301.01	5.90	26.48	I	C	SP	P
COL	82.377	22.03	5.12	22.76	I	C	LP	P
COR	89.890	45.40	4.70	20.82	I	D	SP	P
WDC	89.991	49.44	4.70	20.81	I	C	SP	P
JAS	91.354	52.22	4.67	20.69	I	C	LP	P
BMN	94.020	49.92	4.60	20.35	I	C	SP	P
RSNT	96.038	27.78	4.54	20.07	I	C	LP	P
TAB	104.974	307.97	4.44	19.61	I	C	LP	Pdf
DAG	107.932	357.67	1.89	8.21	I	C	SP	Pdf
IST	117.435	314.10	1.88	8.15	I	C	LP	PKP
HLW	118.519	301.33	1.88	8.15	I	C	SP	PKP
COP	119.736	334.74	1.87	8.14	I	C	LP	PKP
KMR	123.688	326.95	1.87	8.12	E	C	LP	PKP
STU	125.810	330.13	1.86	8.10	I	C	LP	PKP
WES	126.668	38.96	1.86	8.09	I	C	LP	PKP
UPA	129.127	82.41	1.85	8.05	I	C	LP	PKP
SJG	140.850	67.19	1.75	7.62	I	C	LP	PKP

Table 202. Station data for event 54.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RAB	2.911	309.41	14.24	123.20	I	D	SP	P
HNR	6.418	121.84	14.04	55.59	I	C	LP	P
PMG	7.937	244.73	13.91	54.82	E	D	LP	P
JAY	14.124	283.84	13.13	50.49	I	C	SP	P
CTA	16.047	208.89	12.77	48.62	I	D	LP	P
PVC	17.856	131.75	12.38	46.67	I	C	SP	P
NOU	19.900	145.47	10.44	37.84	I	C	SP	P
ISQ	20.502	223.31	10.31	37.29	I	D	SP	P
GUA	21.634	334.15	10.05	36.20	I	C	LP	P
WB2	23.894	232.86	9.60	34.34	I	D	SP	P
COO	24.506	185.27	9.53	34.05	I	D	SP	P
CMS	26.547	196.60	9.33	33.25	I	D	SP	P
ADE	32.215	204.66	8.75	30.94	I	D	SP	P
AFI	34.154	105.81	8.62	30.43	I	C	LP	P
SNZO	39.493	155.76	8.29	29.15	I	C	LP	P
BAG	40.240	304.16	8.27	29.07	I	C	LP	P
MRWA	42.950	232.89	8.10	28.42	I	C	SP	P
NWAO	43.696	227.38	8.07	28.31	I	C	LP	P
TATO	44.476	315.22	8.02	28.12	I	C	LP	P
ANP	44.588	315.48	8.02	28.12	I	C	LP	P
MAT	45.010	341.46	7.99	28.00	I	C	LP	P
MAJO	45.010	341.46	7.99	28.00	I	C	LP	P
QZH	46.526	312.92	7.91	27.70	I	C	SP	P
SSE	48.720	321.27	7.78	27.20	I	C	LP	P
GZH	49.497	307.27	7.70	26.90	I	C	SP	P
QIZ	50.493	300.61	7.62	26.60	I	C	SP	P
NJ2	50.830	320.42	7.58	26.45	I	C	SP	P
HON	54.001	58.28	7.34	25.55	I	C	LP	P
SNG	55.270	282.99	7.22	25.10	I	C	LP	P
SNY	55.350	332.23	7.22	25.10	I	C	SP	P
CN2	56.101	335.00	7.18	24.95	I	C	SP	P
NST	57.925	292.62	7.03	24.40	I	C	SP	P
TIY	58.504	321.52	7.00	24.29	I	C	SP	P
KMI	59.022	303.94	6.96	24.14	I	C	LP	P
CHG	59.983	295.66	6.88	23.85	E	C	LP	P
CHG	59.983	295.66	6.88	23.85	I	C	SP	P
KOD	78.321	281.71	5.48	18.78	I	C	SP	P
NDI	81.752	300.02	5.18	17.72	I	C	SP	P
COL	82.449	21.35	5.14	17.58	I	C	LP	P
SPA	83.985	180.00	5.05	17.26	I	C	SP	P
COR	88.724	45.10	4.75	16.21	I	C	SP	P
LON	90.104	43.13	4.71	16.07	I	C	LP	P
RSNT	95.781	27.83	4.55	15.51	I	C	LP	P
MHI	97.515	305.72	4.52	15.40	E	C	LP	P
TUL	109.539	54.16	1.89	6.38	E	C	LP	PKP
GDH	114.268	10.56	1.88	6.36	I	C	SP	PKP
GDH	114.268	10.56	1.88	6.36	I	C	LP	PKP
SHA	116.610	58.78	1.88	6.34	E	C	LP	PKP
SEK	118.409	233.38	1.88	6.33	I	C	SP	PKP
BPI	118.967	235.77	1.88	6.33	I	C	SP	PKP

Table 202. Station data for event 54 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VIR	119.120	233.30	1.88	6.33	I	C	SP	PKP
KSR	120.024	235.62	1.87	6.32	I	C	SP	PKP
WLF	129.001	333.91	1.86	6.26	E	C	LP	PKP
LPA	129.109	145.47	1.86	6.26	E	C	LP	PKP

Table 203. Station data for event 59.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	5.661	120.28	14.04	83.96	E	C	LP	P
KOU	16.554	147.94	12.62	63.36	I	C	SP	P
PVC	17.083	131.64	12.52	62.47	I	C	SP	P
NOU	19.145	145.89	12.11	59.06	I	C	SP	P
GUA	22.357	333.41	9.82	44.07	E	C	LP	P
RIV	27.338	186.97	9.22	40.77	I	C	SP	P
STK	28.106	204.75	9.17	40.50	I	D	SP	P
YOU	28.224	191.63	9.17	40.50	I	C	SP	P
CAN	29.121	190.11	9.02	39.71	I	C	SP	P
TOO	32.030	194.32	8.74	38.25	I	D	SP	P
AFI	33.467	105.22	8.64	37.73	E	C	LP	P
TAU	36.801	189.43	8.44	36.71	E	C	LP	P
SNZO	38.781	156.07	8.32	36.11	E	C	LP	P
BAG	41.004	304.23	8.20	35.51	I	C	LP	P
KLB	42.742	229.54	8.12	35.11	I	D	SP	P
BAL	43.108	231.42	8.10	35.01	I	D	SP	P
NWAO	43.761	228.13	8.04	34.71	E	N	LP	P
RKG	44.474	226.82	8.01	34.57	I	D	SP	P
TATO	45.249	315.13	7.99	34.47	I	C	LP	P
MAJO	45.691	341.03	7.96	34.32	I	C	LP	P
SEO	51.115	331.33	7.57	32.42	E	C	LP	P
NJ2	51.597	320.28	7.53	32.23	I	C	SP	P
SNG	55.941	283.20	7.17	30.52	E	C	LP	P
NST	58.651	292.72	6.99	29.68	I	C	SP	P
KMI	59.786	303.95	6.87	29.12	E	C	LP	P
CHG	60.722	295.73	6.83	28.93	I	C	LP	P
NDI	82.506	299.98	5.14	21.35	I	C	SP	P
COL	82.734	21.20	5.14	21.35	I	C	LP	P
SPA	83.459	180.00	5.08	21.09	I	C	SP	P
WDC	88.544	49.06	4.75	19.66	I	C	SP	P
BMN	92.537	49.78	4.66	19.27	I	C	SP	P
RSNT	95.982	27.85	4.55	18.80	E	C	LP	P
SHA	116.396	59.08	1.88	7.65	E	C	LP	PKP
EVA	118.144	235.39	1.88	7.64	I	C	SP	PKP
SLR	119.111	235.85	1.88	7.63	I	C	SP	PKP
WET	126.930	329.70	1.86	7.57	I	D	SP	PKP
BAO	148.288	134.29	1.62	6.57	I	C	SP	PKP

Table 204. Station data for event 64.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LAT	1.666	234.47	10.65	126.85	I	D	SP	P
MOM	3.739	345.07	12.96	103.26	I	C	SP	P
PMG	3.894	197.88	13.01	102.27	I	D	LP	P
ALOA	5.002	156.65	13.23	96.40	I	D	SP	P
CTA	14.466	187.96	12.55	70.55	I	C	LP	P
ISQ	17.218	208.98	11.94	63.78	I	C	SP	P
MTN	18.431	246.07	10.49	51.96	I	C	SP	P
GUA	19.395	349.84	10.25	50.34	E	D	LP	P
WB2	19.663	222.61	10.18	49.89	I	C	SP	P
RMQ	20.694	179.01	9.96	48.41	I	C	SP	P
KOU	21.391	135.20	9.83	47.58	I	C	SP	P
ASPA	22.664	216.46	9.63	46.30	I	C	SP	P
PVC	22.882	123.26	9.60	46.15	I	D	SP	P
NOU	24.057	135.15	9.45	45.25	I	C	SP	P
COO	24.985	172.78	9.37	44.73	I	C	SP	P
CMS	25.780	184.99	9.29	44.27	I	C	SP	P
STK	26.824	192.85	9.20	43.72	I	C	SP	P
RIV	28.125	175.06	9.02	42.63	I	C	SP	P
YOU	28.453	179.97	8.97	42.35	I	C	SP	P
WBN	29.105	223.31	8.90	41.95	I	C	SP	P
CAN	29.499	178.95	8.86	41.71	I	C	SP	P
WAM	30.367	179.17	8.80	41.34	I	C	SP	P
ADE	30.475	195.76	8.79	41.30	I	C	SP	P
BFD	31.793	188.84	8.70	40.79	I	C	SP	P
TOO	31.847	184.33	8.69	40.77	I	C	SP	P
BAG	35.173	309.04	8.49	39.64	E	D	LP	P
MEK	35.237	230.50	8.49	39.62	I	C	SP	P
KLB	38.537	224.22	8.29	38.53	I	C	SP	P
BAL	38.725	226.33	8.28	38.48	I	C	SP	P
NWAO	39.679	222.92	8.23	38.20	I	C	SP	P
NWAO	39.679	222.92	8.23	38.20	E	C	LP	P
MUN	39.841	224.91	8.22	38.15	I	C	SP	P
TATO	40.149	320.48	8.21	38.05	I	D	LP	P
RKG	40.511	221.68	8.18	37.93	I	C	SP	P
MAT	43.058	347.99	8.05	37.21	I	D	SP	P
MAJO	43.058	347.99	8.05	37.21	I	D	LP	P
NJ2	46.878	325.03	7.83	36.03	I	D	SP	P
SNY	52.411	336.71	7.40	33.78	I	D	SP	P
CN2	53.420	339.44	7.32	33.36	I	D	SP	P
CHG	54.431	297.81	7.24	32.94	I	D	SP	P
DRV	61.155	183.79	6.73	30.37	I	C	SP	P
KKN	69.296	302.38	6.08	27.16	I	D	SP	P
WMQ	73.438	318.82	5.78	25.72	I	D	SP	P
SPA	84.359	180.00	5.00	22.06	I	C	SP	P
LON	93.972	43.58	4.60	20.22	E	D	LP	P
RSNT	98.264	27.77	4.49	19.70	E	D	LP	P
BRG	121.157	328.07	1.87	8.08	I	D	SP	PKP
CLL	121.401	328.89	1.87	8.08	I	D	SP	PKP
KBA	123.566	324.56	1.87	8.07	I	D	SP	PKP
ESK	125.519	340.46	1.86	8.05	I	D	SP	PKP

Table 204. Station data for event 64 .. continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BLA	125.640	47.65	1.86	8.05	E	D	LP	PKP
PEL	126.509	138.88	1.86	8.04	I	D	SP	PKP
GRC	128.969	330.10	1.85	8.01	I	D	SP	PKP
BNG	130.010	271.02	1.85	7.99	I	D	SP	PKP
GRR	130.035	333.54	1.85	7.99	I	D	SP	PKP
LPF	130.382	333.35	1.85	7.98	I	D	SP	PKP
YJA	136.810	130.99	1.80	7.78	I	D	SP	PKP
BAO	153.340	142.79	1.45	6.23	I	D	SP	PKP

Table 205. Station data for event 98.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BGA	0.375	65.31	8.78	141.35	I	D	SP	P
PAA	0.650	89.39	11.69	123.70	I	D	SP	P
HNR	5.938	121.84	13.95	83.18	E	C	LP	P
LAT	7.795	267.04	13.81	79.35	I	D	SP	P
PMG	8.211	247.48	13.77	78.55	I	D	LP	P
CTAO	16.033	210.52	12.66	64.30	I	D	LP	P
CTA	16.033	210.52	12.66	64.30	I	D	LP	P
PVC	17.383	131.98	12.40	61.95	I	C	SP	P
NOU	19.462	145.98	10.53	48.50	I	C	SP	P
MTN	24.249	252.70	9.53	42.71	I	D	SP	P
COO	24.298	186.18	9.53	42.69	I	D	SP	P
CMS	26.428	197.49	9.32	41.52	I	D	SP	P
STK	28.292	204.28	9.11	40.40	I	D	SP	P
CAN	29.366	189.77	8.96	39.59	I	D	SP	P
WAM	30.237	189.59	8.86	39.08	I	D	SP	P
MNI	30.921	283.43	8.81	38.83	I	C	SP	P
DAV	32.084	294.03	8.73	38.40	E	C	LP	P
ADE	32.162	205.38	8.72	38.37	I	D	SP	P
AFI	33.691	105.57	8.62	37.85	E	C	LP	P
MBL	36.950	242.96	8.44	36.90	I	D	SP	P
BAG	40.720	304.09	8.21	35.76	E	C	LP	P
MRWA	43.128	233.32	8.09	35.14	I	D	SP	P
BAL	43.159	231.10	8.09	35.13	I	D	SP	P
NWAO	43.830	227.82	8.04	34.92	I	D	SP	P
TATO	44.943	315.06	7.99	34.64	I	C	LP	P
MAJO	45.379	341.11	7.96	34.51	I	C	LP	P
MAT	45.379	341.11	7.96	34.51	I	C	SP	P
HON	53.784	57.92	7.34	31.50	E	C	LP	P
PPI	54.625	273.91	7.27	31.17	I	C	SP	P
NST	58.400	292.62	6.99	29.84	I	C	SP	P
XAN	59.102	315.96	6.94	29.58	I	C	SP	P
KMI	59.502	303.89	6.90	29.43	I	C	SP	P
BDT	59.913	293.96	6.87	29.27	I	C	SP	P
CHTO	60.461	295.65	6.83	29.07	E	C	LP	P
CHG	60.461	295.65	6.83	29.07	I	C	LP	P
GTA	68.131	316.84	6.20	26.20	I	C	SP	P
KOD	78.774	281.70	5.46	22.85	I	C	SP	P
HYB	78.897	289.06	5.45	22.81	I	C	SP	P
COL	82.533	21.24	5.13	21.42	E	C	LP	P
COL	82.533	21.24	5.13	21.42	I	C	SP	P
FBAL	82.663	21.32	5.13	21.39	I	C	LP	P
SPA	83.735	180.00	5.06	21.10	I	C	SP	P
MAW	84.968	202.61	4.99	20.78	I	C	SP	P
LON	90.006	43.08	4.71	19.59	E	C	LP	P
SHA	116.388	58.94	1.88	7.68	E	C	LP	PKP
LBF	132.377	333.17	1.84	7.52	I	D	SP	PKP
SMF	132.695	332.96	1.84	7.51	I	D	SP	PKP

Table 206. Station data for event 107.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MOM	4.109	331.42	13.48	96.37	I	C	SP	P
PMG	4.308	210.48	13.50	95.45	I	D	SP	P
CTA	14.639	191.65	12.67	69.05	I	C	SP	P
PVC	22.056	124.51	9.78	46.12	I	C	SP	P
NOU	23.366	136.69	9.57	44.90	I	C	SP	P
YOU	28.471	181.71	9.01	41.64	I	C	SP	P
NWAO	40.365	223.69	8.21	37.23	E	D	LP	P
TATO	40.788	319.48	8.19	37.14	I	D	LP	P
SNZO	42.078	151.24	8.12	36.75	I	C	LP	P
QZH	42.691	316.76	8.09	36.61	I	D	SP	P
MAJO	43.272	346.86	8.05	36.42	I	D	LP	P
MAT	43.272	346.86	8.05	36.42	I	D	SP	P
NJ2	47.453	324.18	7.81	35.17	I	D	SP	P
SNY	52.809	335.91	7.38	32.98	I	D	SP	P
CHTO	55.313	297.39	7.19	32.03	I	D	LP	P
BNG	131.007	270.94	1.85	7.82	I	D	SP	PKP
TIO	146.646	321.68	1.65	6.97	I	D	SP	PKP

Table 207. Station data for event 121.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PAA	6.820	304.72	13.78	82.84	I	C	SP	P
BGA	7.159	304.26	13.76	82.04	I	C	SP	P
RAB	10.731	303.50	13.40	74.75	E	C	LP	P
PMG	13.794	272.28	12.97	68.98	I	C	LP	P
LAT	14.422	283.25	12.87	67.86	I	C	SP	P
CTA	17.352	233.98	12.33	62.62	I	C	LP	P
COO	21.971	201.71	9.86	45.21	I	C	SP	P
YOU	26.606	204.07	9.28	41.93	I	C	SP	P
CAN	27.288	202.01	9.21	41.55	I	C	SP	P
WB2	27.547	246.40	9.19	41.40	I	D	SP	P
WAM	28.108	201.35	9.12	41.04	I	C	SP	P
TAU	34.690	197.94	8.55	38.01	E	D	LP	P
MEK	43.314	242.01	8.07	35.50	I	D	SP	P
NAU	45.271	248.46	7.96	34.96	I	D	SP	P
NWAO	46.194	233.90	7.90	34.68	E	D	LP	P
NWAO	46.194	233.90	7.90	34.68	I	D	SP	P
MUN	46.723	235.51	7.87	34.52	I	D	LP	P
MUN	46.723	235.51	7.87	34.52	I	D	SP	P
MAT	51.295	336.30	7.53	32.84	I	D	SP	P
MAJO	51.295	336.30	7.53	32.84	I	D	LP	P
TATO	52.144	312.84	7.46	32.50	E	D	LP	P
SSE	56.184	318.48	7.14	30.95	I	D	SP	P
IPM	61.637	280.87	6.73	28.96	I	D	SP	P
BJI	65.070	323.26	6.45	27.67	E	D	LP	P
NST	65.651	292.37	6.40	27.45	I	D	SP	P
KMI	66.855	302.91	6.30	26.96	E	D	LP	P
SBA	67.646	178.71	6.23	26.67	I	D	SP	P
CHG	67.765	295.17	6.22	26.62	I	D	SP	P
CHTO	67.765	295.17	6.22	26.62	I	D	LP	P
PKI	82.290	299.76	5.14	21.72	I	D	SP	P
KKN	82.459	299.94	5.13	21.68	I	D	SP	P
DMN	82.559	299.72	5.13	21.65	I	D	SP	P
COL	84.039	19.49	5.04	21.26	I	D	SP	P
COL	84.039	19.49	5.04	21.26	I	D	LP	P
MHC	86.182	51.18	4.87	20.52	I	D	SP	P
WDC	86.413	47.87	4.85	20.46	I	D	SP	P
ORV	86.893	49.08	4.82	20.32	I	D	SP	P
COR	87.044	43.87	4.81	20.28	I	D	SP	P
JAS1	87.273	50.87	4.80	20.22	I	D	SP	P
FRI	87.581	51.92	4.78	20.15	I	D	SP	P
LON	88.674	42.10	4.73	19.91	I	D	LP	P
NEW	92.132	41.44	4.67	19.62	I	D	SP	P
LDM	93.348	41.51	4.63	19.48	I	D	LP	P
CLX	93.419	41.77	4.63	19.47	I	D	LP	P
YKC	96.429	27.73	4.53	19.03	I	D	SP	P
ANMO	97.754	55.93	4.51	18.93	I	D	LP	P
UPA	120.255	85.55	1.87	7.75	I	D	SP	PKP
COP	128.466	337.92	1.86	7.68	I	D	SP	PKP
PVL	129.666	318.62	1.85	7.66	I	D	SP	PKP
BRG	131.369	332.77	1.84	7.63	I	D	SP	PKP

Table 207. Station data for event 121 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VKA	131.993	328.79	1.84	7.62	I	D	SP	PKP
SJG	133.609	74.79	1.83	7.57	I	D	SP	PKP
FLN	138.645	341.58	1.78	7.38	I	D	SP	PKP
LDF	138.680	341.14	1.78	7.38	I	D	SP	PKP
SSF	138.704	336.77	1.78	7.38	I	D	SP	PKP
SMF	138.913	336.12	1.78	7.37	I	D	SP	PKP
AVF	138.986	336.67	1.78	7.36	I	D	SP	PKP
GRR	139.092	341.65	1.78	7.36	I	D	SP	PKP
BGF	139.375	336.91	1.78	7.34	I	D	SP	PKP
LSF	140.132	337.82	1.77	7.30	I	D	SP	PKP
LMR	140.335	330.65	1.76	7.29	I	D	SP	PKP
BNG	142.462	263.93	1.73	7.15	I	D	SP	PKP
TOL	147.685	338.39	1.62	6.70	I	D	LP	PKP
PTO	147.932	345.30	1.62	6.68	I	D	LP	PKP
ALM	149.647	333.35	1.57	6.49	I	D	SP	PKP

Table 208. Station data for event 122.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ALOA	3.724	263.22	14.21	123.39	I	D	SP	P
PVC	15.823	121.12	12.77	48.62	I	C	SP	P
NOU	17.095	137.78	12.58	47.66	I	C	SP	P
KNA	25.402	254.10	9.42	33.61	I	C	SP	P
ADE	28.674	207.09	9.11	32.36	I	C	SP	P
WBN	30.691	234.57	8.86	31.37	I	C	SP	P
AFI	33.577	100.24	8.65	30.55	E	D	LP	P
NWAO	40.982	230.36	8.21	28.84	E	C	LP	P
TRT	41.051	269.59	8.21	28.84	I	C	SP	P
TATO	47.039	318.01	7.88	27.58	E	C	LP	P
MAJO	48.536	342.85	7.78	27.20	E	C	LP	P
CHTO	61.431	297.68	6.76	23.40	I	C	LP	P
NDI	83.418	300.51	5.08	17.37	I	C	SP	P
POO	84.034	289.90	5.05	17.26	I	C	SP	P
BUL	118.660	240.64	1.88	6.33	I	C	SP	PKP
PEL	119.586	137.15	1.87	6.32	I	C	SP	PKP
BRG	127.694	329.16	1.86	6.27	I	C	SP	PKP
KHC	128.929	327.56	1.86	6.26	I	C	SP	PKP
WET	129.287	327.92	1.86	6.26	I	C	SP	PKP
GRF	129.799	329.35	1.85	6.24	I	C	SP	PKP
LBF	135.187	331.09	1.82	6.14	I	C	SP	PKP
SSF	135.355	331.50	1.82	6.14	I	C	SP	PKP
SMF	135.496	330.85	1.82	6.14	I	C	SP	PKP
BNG	135.634	266.25	1.81	6.12	I	C	SP	PKP
LDF	135.785	335.57	1.81	6.12	I	C	SP	PKP
FLN	135.797	335.99	1.81	6.12	I	C	SP	PKP
BGF	136.032	331.48	1.81	6.12	I	C	SP	PKP
GRR	136.246	335.95	1.81	6.12	I	C	SP	PKP
TCF	136.529	331.68	1.80	6.08	I	C	SP	PKP
LPF	136.605	335.78	1.80	6.08	I	C	SP	PKP
LSF	136.873	332.15	1.80	6.08	I	C	SP	PKP
MFF	137.355	333.79	1.80	6.08	I	C	SP	PKP

Table 209. Station data for event 155.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
RAB	1.792	38.77	14.27	123.10	I	D	LP	P
BGA	4.150	97.79	14.20	56.47	I	C	SP	P
LMG	4.365	220.97	14.18	56.35	I	D	SP	P
PAA	4.477	99.18	14.18	56.35	I	C	SP	P
MOM	5.069	314.05	14.15	56.17	I	C	SP	P
PMG	5.404	225.31	14.12	55.99	I	D	LP	P
HNR	9.611	113.87	13.77	53.94	I	C	LP	P
CTA	15.135	197.50	12.96	49.54	I	C	LP	P
KOU	19.656	140.37	10.60	38.48	I	C	SP	P
GUA	19.961	342.28	10.45	37.84	I	C	LP	P
PVC	20.746	127.00	10.32	37.29	I	C	SP	P
ASPA	24.395	220.87	9.54	34.06	I	D	SP	P
COO	24.857	178.26	9.48	33.82	I	C	SP	P
CMS	26.211	190.13	9.38	33.41	I	C	SP	P
DAV	28.368	296.07	9.12	32.37	I	C	LP	P
YOU	28.640	184.60	9.12	32.37	I	C	SP	P
CAN	29.634	183.39	8.97	31.77	I	C	SP	P
WAM	30.508	183.45	8.86	31.34	I	C	SP	P
ADE	31.365	199.70	8.79	31.07	I	C	SP	P
MKS	31.435	269.16	8.79	31.07	I	C	SP	P
TOO	32.221	188.29	8.75	30.91	I	C	LP	P
BAG	37.233	306.46	8.44	29.70	I	C	LP	P
AFI	37.514	105.50	8.41	29.58	I	C	LP	P
SNZO	41.362	152.77	8.18	28.70	I	C	LP	P
NWAO	41.587	224.84	8.18	28.70	E	D	LP	P
ANP	41.954	318.09	8.16	28.62	I	C	LP	P
RKG	42.377	223.58	8.13	28.51	I	D	SP	P
SHK	43.514	337.80	8.08	28.32	I	C	SP	P
MAT	43.604	344.96	8.08	28.32	I	C	SP	P
MAJO	43.604	344.96	8.08	28.32	I	C	LP	P
SEO	48.449	334.33	7.78	27.18	I	C	LP	P
SNG	51.894	283.58	7.50	26.12	E	C	LP	P
BJI	55.607	327.86	7.22	25.08	E	C	LP	P
KMI	55.997	305.26	7.18	24.93	E	C	LP	P
HON	56.656	60.08	7.15	24.82	I	D	LP	P
CHTO	56.765	296.67	7.11	24.67	I	C	LP	P
SBA	72.681	176.55	5.89	20.23	I	C	SP	P
NDI	78.620	300.59	5.49	18.80	I	C	SP	P
COL	83.272	22.10	5.08	17.35	I	D	LP	P
SAO	91.319	53.37	4.68	15.95	I	D	SP	P
ORV	91.564	50.60	4.68	15.95	I	C	SP	P
MIN	91.565	49.80	4.68	15.95	I	C	SP	P
LON	92.078	43.42	4.67	15.91	I	D	LP	P
FRI	92.727	53.28	4.66	15.88	I	C	SP	P
RSNT	96.949	27.82	4.53	15.42	I	D	LP	P
NAI	113.979	266.12	1.88	6.35	E	D	LP	PKP
KSR	117.474	237.19	1.88	6.33	I	D	SP	PKP
VKA	122.693	325.66	1.87	6.30	I	D	SP	PKP
WET	124.061	328.08	1.87	6.30	I	C	SP	PKP
GRC	130.195	331.79	1.85	6.24	I	D	SP	PKP

Table 209. Station data for event 155 ... continued.

Station	Distance (°)	Azimuth (°)	$dt/d\Delta$ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LPA	131.333	147.98	1.85	6.22	E	C	LP	PKP
LPB	135.481	120.28	1.82	6.14	E	D	LP	PKP
LIS	142.463	334.21	1.74	5.86	I	D	SP	PKP
CUM	144.815	79.83	1.68	5.67	I	D	SP	PKP
RDJ	148.435	154.27	1.62	5.44	I	D	SP	PKP

Table 210. Station data for event 168.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PAA	3.233	125.01	14.23	123.26	I	C	SP	P
LAT	6.204	248.97	14.08	55.83	I	D	SP	P
LMG	6.426	226.06	14.04	55.59	I	D	SP	P
HNR	8.632	125.44	13.86	54.53	E	C	LP	P
CTA	16.819	201.83	12.58	47.66	I	C	LP	P
PJG	19.573	336.29	10.59	38.48	I	C	SP	P
KNA	26.181	242.85	9.38	33.45	I	D	SP	P
CAN	30.929	186.10	8.82	31.22	I	C	SP	P
WAM	31.804	186.06	8.75	30.94	I	C	SP	P
ADE	33.069	201.54	8.68	30.67	I	C	SP	P
MBL	36.086	239.65	8.50	29.96	I	C	SP	P
SNZO	41.615	154.99	8.18	28.73	E	C	LP	P
WEL	41.622	154.91	8.18	28.73	E	C	LP	P
ANP	42.328	315.63	8.13	28.54	I	C	LP	P
NWAO	43.657	225.16	8.07	28.31	E	N	LP	P
MUN	43.895	226.99	8.05	28.23	I	D	SP	P
MUN	43.895	226.99	8.05	28.23	I	C	LP	P
SSE	46.473	321.63	7.91	27.70	E	C	LP	P
SEO	48.217	332.30	7.81	27.32	I	C	LP	P
PPI	52.519	272.81	7.46	26.00	I	D	SP	P
SNG	53.368	282.26	7.38	25.70	I	D	SP	P
HON	54.542	60.00	7.30	25.40	I	C	LP	P
KMI	56.807	303.81	7.11	24.69	E	C	LP	P
CHG	57.857	295.35	7.03	24.40	I	D	SP	P
CHTO	57.857	295.35	7.03	24.40	I	C	LP	P
SBA	73.731	176.95	5.82	20.00	I	C	LP	P
COL	81.539	21.79	5.22	17.86	I	C	LP	P
BKS	88.703	52.05	4.75	16.21	I	C	SP	P
COR	88.721	45.29	4.75	16.21	I	C	SP	P
ORV	89.460	50.44	4.71	16.07	I	D	SP	P
LON	90.021	43.27	4.71	16.07	I	C	LP	P
JAS	90.123	52.13	4.71	16.07	I	C	LP	P
MNA	91.955	51.79	4.67	15.93	I	D	SP	P
RSNT	95.102	27.77	4.58	15.61	E	N	LP	P
KEV	105.974	342.92	1.89	6.38	E	C	LP	Pdf
NUR	111.824	335.23	1.89	6.38	E	C	LP	Pdf
JER	115.730	303.10	1.88	6.34	I	C	SP	PKP
NAI	115.827	266.45	1.88	6.34	E	C	LP	PKP
SLR	118.475	237.69	1.88	6.33	I	C	SP	PKP
JMB	119.204	316.87	1.88	6.33	I	C	SP	PKP
PVL	119.882	318.06	1.87	6.32	I	C	SP	PKP
BUL	120.030	243.83	1.87	6.32	E	C	LP	PKP
MMB	121.504	316.93	1.87	6.31	I	C	SP	PKP
HAM	122.490	334.68	1.87	6.31	I	C	SP	PKP
VKA	122.721	326.86	1.87	6.31	I	C	SP	PKP
SKO	122.876	318.23	1.87	6.31	I	C	SP	PKP
MOX	123.649	331.37	1.87	6.30	I	C	SP	PKP
KBA	125.043	327.15	1.87	6.29	I	D	SP	PKP
WES	125.570	39.38	1.86	6.29	E	C	LP	PKP
STU	126.074	330.96	1.86	6.29	E	C	LP	PKP

Table 210. Station data for event 168 ... continued.

Station	Distance (°)	Azimuth (°)	$dt/d\Delta$ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
UPA	127.837	82.12	1.86	6.27	E	C	LP	PKP
PTO	139.844	338.10	1.77	5.96	E	C	LP	PKP
BAO	151.321	134.47	1.53	5.15	I	C	SP	PKP

Table 211. Station data for event 171.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LAT	1.808	258.42	14.13	93.30	I	D	SP	P
PMG	3.493	207.42	14.14	92.51	I	D	SP	P
HNR	11.491	106.47	13.45	71.86	E	C	LP	P
CTA	13.931	189.92	13.07	67.43	I	D	LP	P
GUA	20.068	348.97	10.40	47.29	I	C	SP	P
RMQ	20.083	180.07	10.40	47.29	I	D	SP	P
PVC	22.203	122.54	9.92	44.50	I	C	SP	P
NOU	23.334	134.80	9.66	43.04	I	C	SP	P
MEK	35.178	231.50	8.55	37.16	I	D	SP	P
TAU	36.488	181.81	8.46	36.71	E	D	LP	P
NWAO	39.523	223.75	8.29	35.85	E	D	LP	P
TATO	40.882	320.51	8.20	35.41	I	C	LP	P
ANP	41.012	320.76	8.20	35.41	I	C	LP	P
SNZO	41.829	150.41	8.15	35.16	E	N	LP	P
MAJO	43.739	347.66	8.07	34.76	I	C	LP	P
MAT	43.739	347.66	8.07	34.76	I	C	SP	P
SEO	48.140	336.64	7.81	33.49	E	C	LP	P
CBZ	49.060	163.65	7.73	33.10	I	C	SP	P
BSI	54.661	281.24	7.29	31.00	I	D	SP	P
CHTO	55.082	298.01	7.25	30.81	I	C	LP	P
CHG	55.082	298.01	7.25	30.81	I	C	LP	P
HON	58.951	60.64	6.95	29.41	E	C	LP	P
SBA	72.140	176.06	5.92	24.73	I	C	SP	P
POO	77.831	290.41	5.51	22.91	I	C	SP	P
COL	84.762	22.53	4.99	20.64	I	C	LP	P
BKS	93.013	52.41	4.64	19.14	I	C	SP	P
LON	94.125	43.59	4.61	19.01	I	C	LP	P
RSNT	98.607	27.82	4.49	18.50	I	C	LP	P
KEV	106.515	342.02	1.89	7.67	E	C	LP	PKP
CLK	110.934	250.66	1.89	7.67	I	C	SP	PKP
NAI	111.688	266.13	1.89	7.67	I	C	LP	PKP
NUR	111.752	333.83	1.89	7.67	E	C	LP	PKP
BFS	114.926	236.63	1.88	7.64	I	D	SP	PKP
KSR	115.208	237.73	1.88	7.64	I	D	SP	PKP
GDH	115.434	8.62	1.88	7.64	I	C	LP	PKP
BUL	115.604	244.26	1.88	7.63	E	C	LP	PKP
BUL	115.604	244.26	1.88	7.63	I	C	SP	PKP
KRI	115.638	248.06	1.88	7.63	I	C	SP	PKP
LSZ	117.374	249.31	1.88	7.62	I	C	SP	PKP
COP	119.808	333.22	1.87	7.60	I	C	SP	PKP
SHA	121.506	57.85	1.87	7.60	I	C	LP	PKP
KHC	123.056	326.48	1.87	7.59	I	C	SP	PKP
KBA	124.302	324.51	1.87	7.58	I	C	SP	PKP
WIN	124.718	237.13	1.87	7.58	I	D	SP	PKP
STU	125.618	328.15	1.86	7.57	E	C	LP	PKP
WES	129.527	38.23	1.85	7.51	I	C	LP	PKP
SMF	129.757	329.01	1.85	7.51	I	C	SP	PKP
FRF	130.186	324.26	1.85	7.51	I	C	SP	PKP
BGF	130.322	329.54	1.85	7.51	I	C	SP	PKP
LRG	130.417	324.31	1.85	7.51	I	C	SP	PKP

Table 211. Station data for event 171 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BNG	130.434	270.47	1.85	7.51	I	C	SP	PKP
CDR	130.624	324.89	1.85	7.50	I	C	SP	PKP
MZF	130.688	329.37	1.85	7.50	I	C	SP	PKP
TCF	130.827	329.68	1.85	7.50	I	C	SP	PKP
LSF	131.193	330.07	1.85	7.50	I	C	SP	PKP
CAF	131.835	328.45	1.84	7.47	I	C	SP	PKP
RJF	131.858	329.18	1.84	7.47	I	C	SP	PKP
UPA	132.062	83.61	1.84	7.47	E	C	LP	PKP
LPO	132.456	328.79	1.84	7.47	I	C	SP	PKP
EPF	134.041	327.73	1.83	7.42	I	C	SP	PKP
PTO	139.859	333.22	1.77	7.18	I	D	LP	PKP
SJG	143.970	67.80	1.70	6.91	I	C	LP	PKP
RDJ	148.710	158.32	1.59	6.44	I	C	LP	PKP
BAO	152.605	142.82	1.46	5.93	I	C	SP	PKP

Table 212. Station data for event 187.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BGA	5.381	87.71	14.13	45.15	I	D	SP	P
HNR	10.519	107.33	13.67	43.30	E	C	LP	P
CTA	14.033	193.76	13.16	41.32	I	C	LP	P
CTA	14.033	193.76	13.16	41.32	I	C	SP	P
KOU	19.906	136.41	10.48	31.72	I	C	SP	P
WRA	20.150	226.61	10.48	31.72	I	D	SP	P
GUA	20.379	346.31	10.35	31.28	I	D	LP	P
PVC	21.323	123.56	10.08	30.38	I	C	SP	P
NOU	22.571	136.18	9.88	29.72	I	C	SP	P
TAU	36.427	183.04	8.48	25.18	I	C	SP	P
NWAO	40.135	224.57	8.27	24.51	E	D	LP	P
SNZO	41.259	151.21	8.19	24.26	I	C	LP	P
WEL	41.271	151.13	8.19	24.26	I	C	SP	P
TATO	41.592	319.62	8.19	24.26	I	D	LP	P
ANP	41.720	319.87	8.19	24.26	I	D	LP	P
MAJO	44.058	346.57	8.05	23.82	I	D	LP	P
MAT	44.058	346.57	8.05	23.82	I	D	SP	P
SSE	46.224	325.35	7.94	23.48	E	D	LP	P
SEO	48.631	335.77	7.79	23.01	I	D	LP	P
SNG	50.859	284.57	7.59	22.38	I	D	LP	P
CHTO	56.000	297.65	7.19	21.14	I	D	LP	P
HON	58.146	60.18	7.04	20.68	E	C	LP	P
COL	84.481	22.33	5.03	14.62	I	D	LP	P
LON	93.521	43.53	4.63	13.43	I	D	LP	P
JAS1	93.729	52.42	4.63	13.43	E	N	LP	P
SBB	95.565	55.82	4.56	13.23	I	C	LP	P
RSNT	98.238	27.85	4.51	13.08	E	D	LP	P
NAI	112.663	265.95	1.89	5.43	E	D	LP	PKP
SLR	114.867	237.97	1.88	5.42	E	D	LP	PKP
PVL	119.240	316.33	1.88	5.40	I	D	SP	PKP
KRA	119.667	325.27	1.87	5.39	I	D	SP	PKP
AKU	120.202	354.23	1.87	5.39	I	D	SP	PKP
MMB	120.788	315.08	1.87	5.39	I	D	SP	PKP
SOP	122.780	324.14	1.87	5.38	I	D	SP	PKP
MBO	164.726	302.38	0.91	2.62	I	D	SP	PKP

Table 213. Station data for event 196.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HNR	0.405	13.12	14.60	120.93	I	D	LP	P
HNR	0.405	13.12	14.60	120.93	I	D	SP	P
PVC	11.367	134.67	13.51	52.53	I	C	SP	P
KOU	11.491	158.71	13.51	52.53	I	D	SP	P
PMG	12.530	270.84	13.36	51.71	E	C	LP	P
LAT	13.106	282.95	13.29	51.33	I	C	SP	P
NOU	13.928	153.77	13.13	50.48	I	D	SP	P
CTA	16.619	230.60	12.68	48.16	I	D	LP	P
CTA	16.619	230.60	12.68	48.16	I	D	SP	P
BRS	18.701	199.98	12.27	46.13	I	D	SP	P
RMQ	19.617	210.92	10.59	38.47	I	D	SP	P
COO	21.935	198.65	9.95	35.77	I	D	SP	P
ISQ	22.345	238.68	9.85	35.36	I	D	SP	P
CMS	25.176	209.13	9.47	33.81	I	D	SP	P
YOU	26.508	201.66	9.33	33.24	I	D	SP	P
CAN	27.237	199.67	9.28	33.04	I	D	SP	P
AFI	28.046	101.10	9.18	32.64	I	C	LP	P
WAM	28.071	199.10	9.18	32.64	I	D	SP	P
ASPA	28.336	237.72	9.11	32.36	I	D	SP	P
TOO	30.505	202.85	8.86	31.37	I	D	SP	P
KNA	30.858	255.78	8.82	31.21	I	C	SP	P
BFD	31.397	207.14	8.79	31.09	I	D	SP	P
ADE	31.606	214.43	8.79	31.09	I	D	SP	P
TAU	34.726	196.26	8.59	30.31	I	D	LP	P
DAV	38.055	294.93	8.38	29.49	I	C	LP	P
BKB	43.531	278.57	8.07	28.30	I	C	SP	P
KLB	44.563	234.62	8.02	28.11	I	C	SP	P
CVP	46.471	305.90	7.91	27.69	I	C	SP	P
BAG	46.793	303.53	7.88	27.58	I	C	LP	P
SZP	47.488	304.77	7.85	27.46	I	C	SP	P
MAT	50.414	337.33	7.62	26.59	I	C	SP	P
TATO	50.941	313.49	7.58	26.44	I	C	LP	P
ANP	51.048	313.72	7.58	26.44	I	C	LP	P
SHK	51.084	331.01	7.58	26.44	I	C	SP	P
HON	51.676	52.88	7.54	26.29	I	C	LP	P
LEM	51.733	269.03	7.54	26.29	I	C	LP	P
SSE	55.041	319.16	7.26	25.25	I	C	LP	P
SEO	56.308	328.76	7.14	24.80	I	C	LP	P
SNG	61.371	283.73	6.76	23.40	I	C	LP	P
SNG	61.371	283.73	6.76	23.40	I	C	SP	P
PSI	61.940	278.36	6.72	23.25	I	C	SP	P
BJI	63.986	323.84	6.56	22.67	I	C	SP	P
BJI	63.986	323.84	6.56	22.67	I	C	LP	P
KMI	65.575	303.27	6.43	22.20	I	C	SP	P
KMI	65.575	303.27	6.43	22.20	I	C	LP	P
CHTO	66.452	295.45	6.35	21.90	I	C	LP	P
CHG	66.452	295.45	6.35	21.90	I	C	LP	P
CHG	66.452	295.45	6.35	21.90	I	C	SP	P
SBA	68.099	178.43	6.22	21.43	I	C	SP	P
LZH	69.703	314.27	6.10	21.00	I	C	SP	P

Table 213. Station data for event 196 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SPA	80.237	180.00	5.36	18.36	I	C	LP	P
WDC	87.062	48.15	4.83	16.49	I	C	SP	P
JAS	87.972	51.11	4.77	16.27	I	C	LP	P
JAS1	87.981	51.14	4.77	16.27	I	C	SP	P
PAS	88.889	55.23	4.73	16.13	I	C	LP	P
LON	89.203	42.34	4.73	16.13	I	C	LP	P
SBB	89.285	54.76	4.71	16.06	I	C	LP	P
CLC	89.708	53.70	4.71	16.06	I	C	LP	P
PLM	89.789	56.23	4.71	16.06	I	C	LP	P
RSNT	96.584	27.79	4.54	15.47	I	C	LP	P
QUE	97.357	299.31	4.52	15.40	I	C	SP	P
QUE	97.357	299.31	4.52	15.40	I	C	LP	P
ANMO	98.556	56.00	4.49	15.30	I	C	LP	P
DAG	113.077	359.66	1.89	6.37	I	C	SP	PKP
PEL	115.675	134.05	1.88	6.34	E	C	LP	PKP
GDH	116.855	12.70	1.88	6.33	E	C	LP	PKP
SLR	121.107	232.01	1.87	6.31	I	C	SP	PKP
SLR	121.107	232.01	1.87	6.31	E	C	LP	PKP
UPA	121.471	85.46	1.87	6.31	E	C	LP	PKP
NAI	122.249	262.24	1.87	6.31	E	C	LP	PKP
SUR	122.644	221.20	1.87	6.30	I	C	SP	PKP
LPA	122.927	143.13	1.87	6.30	E	C	LP	PKP
BUL	123.532	237.95	1.87	6.30	I	C	SP	PKP
KRI	124.120	242.02	1.87	6.30	I	C	SP	PKP
LPB	125.815	118.55	1.86	6.29	I	C	LP	PKP
HLW	128.104	300.25	1.86	6.27	I	C	SP	PKP
MUD	128.177	339.77	1.86	6.27	I	C	SP	PKP
GZR	128.966	321.89	1.86	6.26	I	C	SP	PKP
VTs	130.058	318.53	1.85	6.24	I	C	SP	PKP
SDV	130.213	86.65	1.85	6.24	I	C	SP	PKP
BRG	130.416	332.19	1.85	6.24	I	C	SP	PKP
ZST	130.613	327.76	1.85	6.23	I	C	SP	PKP
VKA	130.979	328.26	1.85	6.23	I	C	SP	PKP
ATH	131.720	312.80	1.84	6.21	I	C	SP	PKP
KMR	132.231	329.31	1.84	6.21	I	C	LP	PKP
GRF	132.491	332.71	1.84	6.21	I	C	SP	PKP
DBN	133.079	338.82	1.84	6.19	I	C	LP	PKP
BNS	133.243	336.52	1.84	6.19	I	C	SP	PKP
STB	133.665	336.43	1.83	6.17	I	C	SP	PKP
BAO	142.577	132.22	1.72	5.81	I	C	SP	PKP
ALI	146.562	331.31	1.64	5.53	I	C	LP	PKP
TOL	146.820	337.05	1.64	5.53	I	C	LP	PKP
PTO	147.192	343.80	1.64	5.53	I	C	SP	PKP

Table 214. Station data for event 227.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BIAL	0.427	58.13	5.77	155.06	I	C	SP	P
RAB	1.992	47.91	12.85	110.07	I	D	SP	P
BGA	4.510	97.98	13.67	92.48	I	D	SP	P
PAA	4.838	99.26	13.68	91.44	I	D	SP	P
PMG	5.203	222.12	13.68	89.57	I	D	SP	P
PMG	5.203	222.12	13.68	89.57	I	D	LP	P
HNR	9.961	113.40	13.38	77.91	I	D	LP	P
CTA	15.091	196.21	12.65	67.61	I	D	SP	P
CTA	15.091	196.21	12.65	67.61	I	D	LP	P
ISQ	18.559	214.61	10.39	49.41	I	D	SP	P
GUA	19.797	343.20	10.28	48.69	I	C	LP	P
RMQ	20.914	184.86	10.01	47.04	I	D	SP	P
PVC	21.067	126.61	9.98	46.84	I	D	SP	P
WB2	21.388	226.52	9.92	46.47	I	C	SP	P
BRS	21.822	175.00	9.84	46.00	I	D	SP	P
DZM	22.415	138.65	9.74	45.37	I	D	SP	P
NOU	22.587	139.08	9.71	45.21	I	D	SP	P
ASPA	24.211	220.22	9.49	43.91	I	C	SP	P
COO	24.931	177.54	9.42	43.49	I	D	SP	P
CMS	26.211	189.43	9.30	42.83	I	D	SP	P
STK	27.555	196.90	9.16	42.04	I	D	SP	P
CAN	29.676	182.79	8.88	40.46	I	D	SP	P
VUN	29.824	116.91	8.87	40.39	I	D	SP	P
ADE	31.305	199.15	8.76	39.80	I	D	SP	P
BFD	32.355	192.21	8.69	39.40	I	D	SP	P
MBL	33.695	239.64	8.60	38.96	I	C	SP	P
BAG	36.911	306.71	8.41	37.93	E	C	LP	P
MEK	37.130	232.10	8.40	37.85	I	C	SP	P
NAU	37.943	240.05	8.35	37.60	I	C	SP	P
MRWA	40.358	230.21	8.21	36.89	I	C	SP	P
NWAO	41.380	224.54	8.16	36.62	E	N	LP	P
WEL	41.591	152.40	8.15	36.56	I	D	SP	P
MUN	41.595	226.45	8.15	36.56	I	C	SP	P
ANP	41.672	318.37	8.14	36.53	I	C	LP	P
SHK	43.324	338.16	8.06	36.07	I	C	SP	P
MAJO	43.453	345.34	8.05	36.03	I	C	LP	P
MAT	43.453	345.34	8.05	36.03	I	C	LP	P
MAT	43.453	345.34	8.05	36.03	I	C	SP	P
SSE	46.055	324.07	7.90	35.28	I	C	LP	P
SEO	48.240	334.62	7.77	34.58	I	C	LP	P
SNG	51.534	283.63	7.50	33.23	I	C	LP	P
BJI	55.366	328.08	7.20	31.73	I	C	LP	P
CHG	56.420	296.77	7.12	31.36	I	C	SP	P
CHTO	56.420	296.77	7.12	31.36	I	C	LP	P
LZH	60.308	317.14	6.82	29.90	I	C	SP	P
COL	83.349	22.18	5.08	21.77	I	C	SP	P
SPA	84.501	180.00	5.01	21.46	I	D	SP	P
JAS	92.476	52.30	4.65	19.87	E	C	LP	P
RSNT	97.060	27.81	4.52	19.28	E	C	LP	P
JCT	109.594	59.74	1.89	7.94	E	C	LP	PKP

Table 214. Station data for event 227 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MTD	115.870	248.47	1.88	7.89	I	C	SP	PKP
IST	117.274	313.60	1.88	7.89	E	C	LP	PKP
BUL	117.636	243.99	1.88	7.88	I	C	SP	PKP
SHA	119.503	57.88	1.87	7.87	E	C	LP	PKP
LWI	121.447	264.00	1.87	7.86	I	C	SP	PKP
KHC	123.458	327.60	1.87	7.85	I	C	SP	PKP
WET	123.821	327.93	1.87	7.85	I	C	SP	PKP
GRC	129.972	331.59	1.85	7.78	I	C	SP	PKP
PTO	140.005	335.44	1.77	7.42	E	C	LP	PKP
CAR	142.447	80.02	1.73	7.26	I	D	SP	PKP
AVE	145.680	326.35	1.67	7.00	I	D	SP	PKP
TRN	147.840	78.85	1.62	6.79	E	C	LP	PKP
BDF	152.026	139.10	1.49	6.27	I	C	SP	PKP
ATB	155.493	110.43	1.36	5.73	I	C	SP	PKP
SOB1	161.351	141.69	1.10	4.61	I	C	SP	PKP
ITR	163.142	147.33	1.01	4.22	I	C	SP	PKP
CAI	165.698	146.79	0.87	3.64	I	C	SP	PKP

Figure 76. Azimuthal equidistant map for geographic subdivision, Mindanao–East Indonesia.

FIRST MOTION FM LOCATIONS 1984–1985 MINDANAO–E. INDONESIA

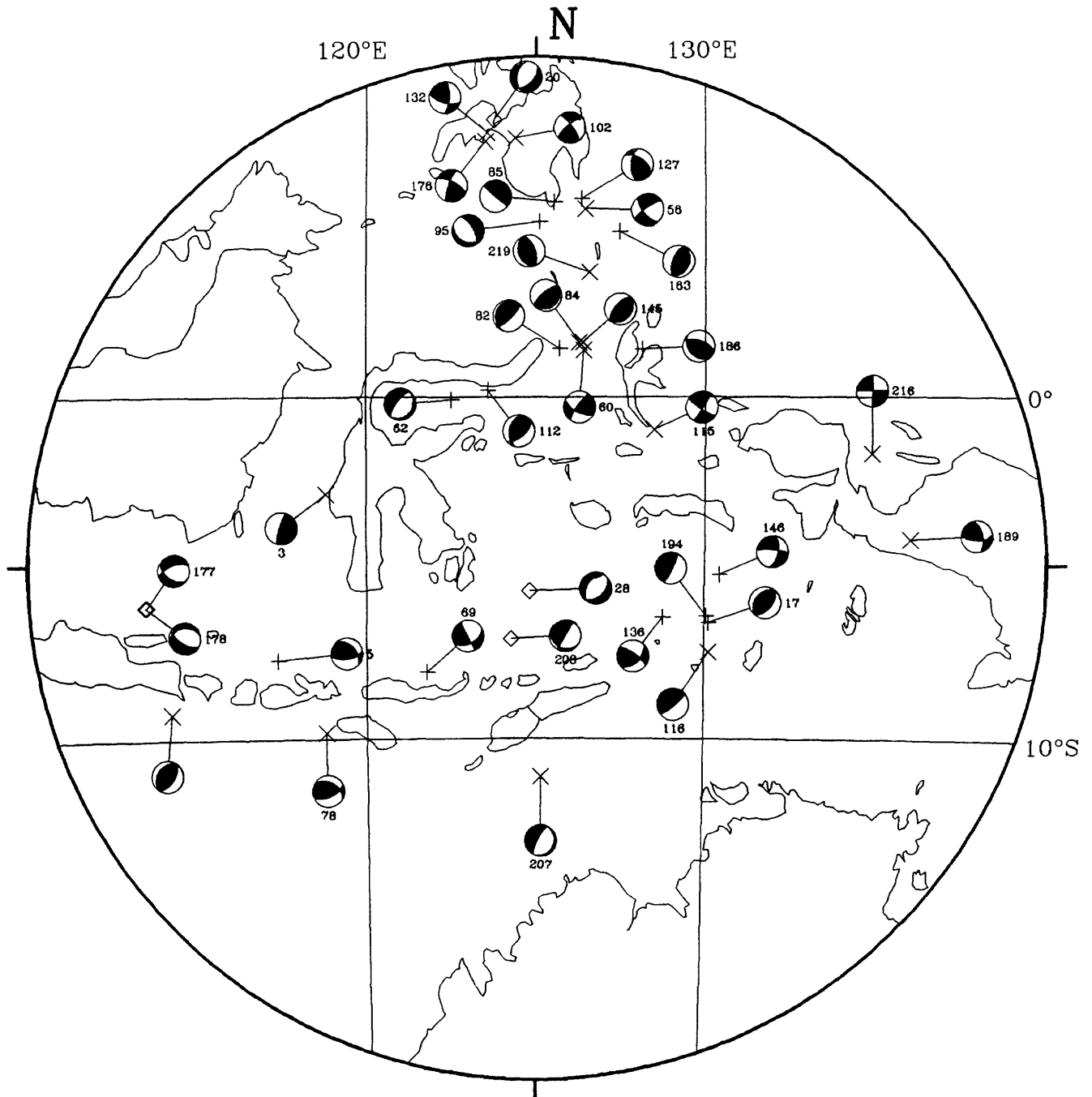


Table 215. Focal mechanism parameters for subdivision,
Mindanao-East Indonesia

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
3	197	79	90	17	11	90	56	107	34	287	0	17
5	80	62	55	316	44	137	58	301	10	194	30	98
17	40	55	90	220	35	90	80	310	10	130	0	40
20	45	55	-66	187	42	-120	7	118	69	9	19	211
28	47	47	-80	213	44	-101	2	130	83	28	7	220
56	235	80	-155	140	65	-11	10	6	25	100	63	255
60	215	77	30	118	61	165	30	80	11	344	58	236
62	218	71	-90	38	19	-90	26	308	64	128	0	38
69	153	88	-138	61	48	-3	27	229	30	26	48	155
78	65	61	57	298	43	134	59	286	10	178	28	82
82	45	75	100	191	18	57	59	329	29	127	10	222
84	230	79	90	50	20	90	65	140	25	320	0	50
85	130	87	90	310	3	90	48	40	42	220	0	130
95	330	65	-75	118	29	241	19	49	67	267	14	144
102	324	76	18	230	73	165	23	187	2	96	67	1
112	50	58	113	191	39	58	68	7	10	124	19	217
115	32	84	168	123	78	6	13	347	4	28	77	186
116	50	80	90	230	10	90	55	320	35	140	0	50
127	305	53	46	183	55	133	1	244	56	153	34	335
132	3	67	148	107	61	27	38	323	4	56	51	151
136	305	75	140	47	52	19	38	259	15	1	48	108
144	33	56	90	213	34	90	79	303	11	123	0	33
145	210	60	90	30	30	90	75	120	15	300	0	30
146	275	80	-30	11	61	-168	13	326	28	229	59	78
163	200	57	90	20	33	90	78	110	12	290	0	20
176	200	74	157	297	68	17	27	157	4	249	62	347
177	247	63	-128	127	45	-40	10	3	55	108	33	267
178	259	34	-127	121	63	-68	16	195	64	69	20	291
186	290	60	75	138	33	114	71	166	14	31	13	298
189	92	68	35	347	58	154	40	313	6	218	49	120
194	25	80	90	205	10	90	55	295	35	115	0	25
207	207	74	-90	27	16	-90	29	297	61	117	0	27
208	30	90	110	120	20	0	42	319	42	101	20	210
216	360	87	-180	90	90	3	2	315	2	225	87	90
219	340	60	90	160	30	90	75	250	15	70	0	160

Figure 77. Lower hemisphere focal sphere projection for events 3, 5, 17, and 20.

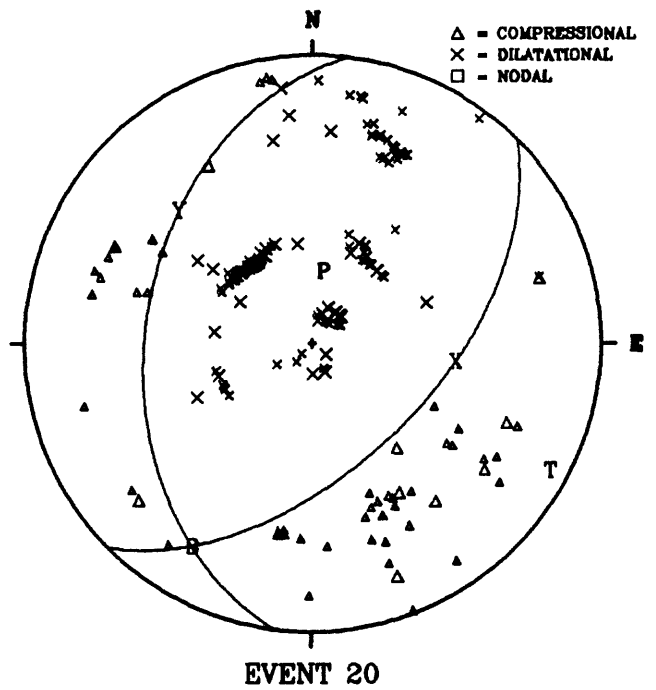
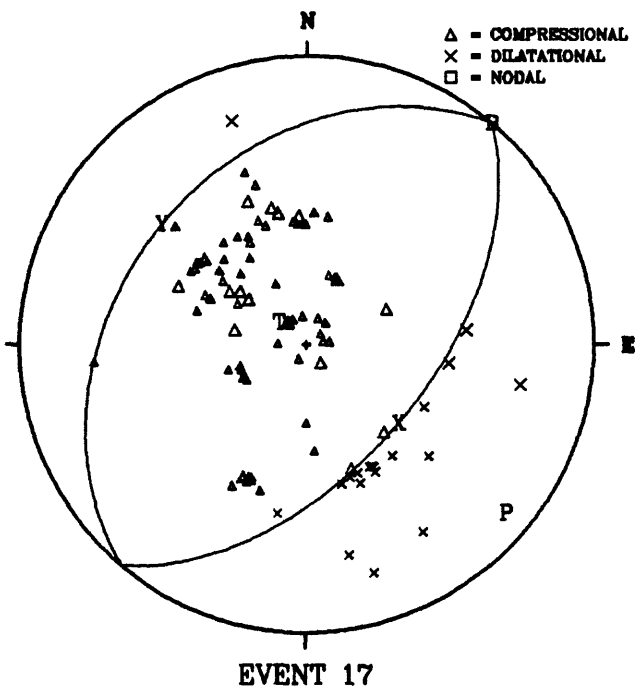
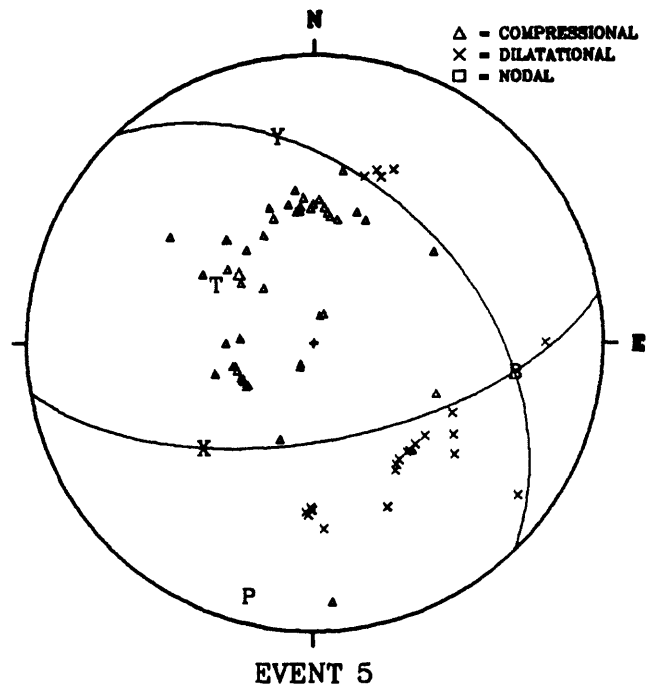
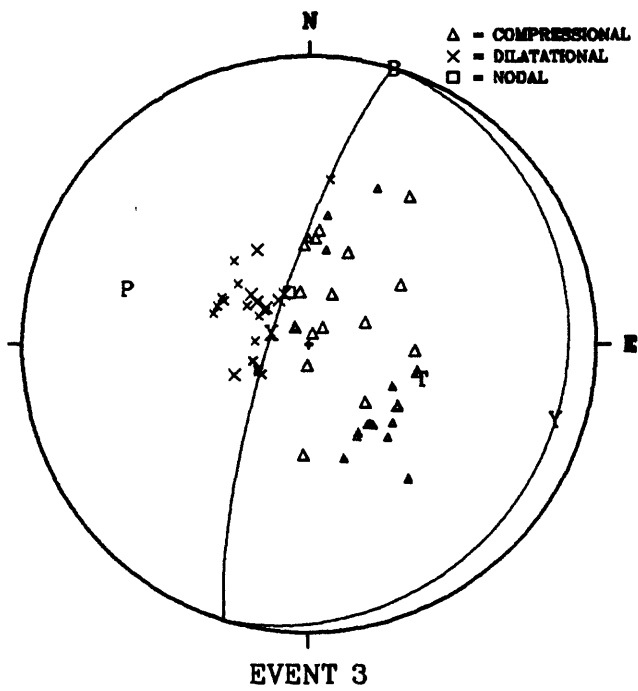


Figure 78. Lower hemisphere focal sphere projection for events 28, 56, 60, and 62.

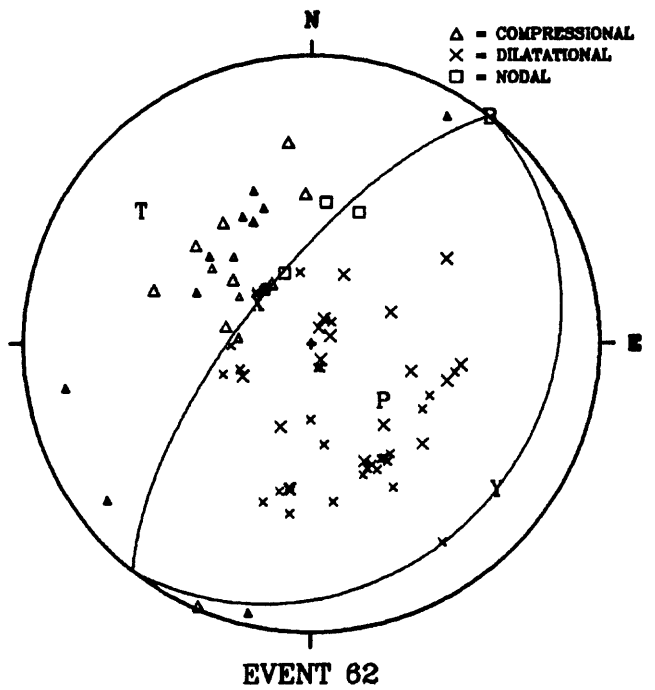
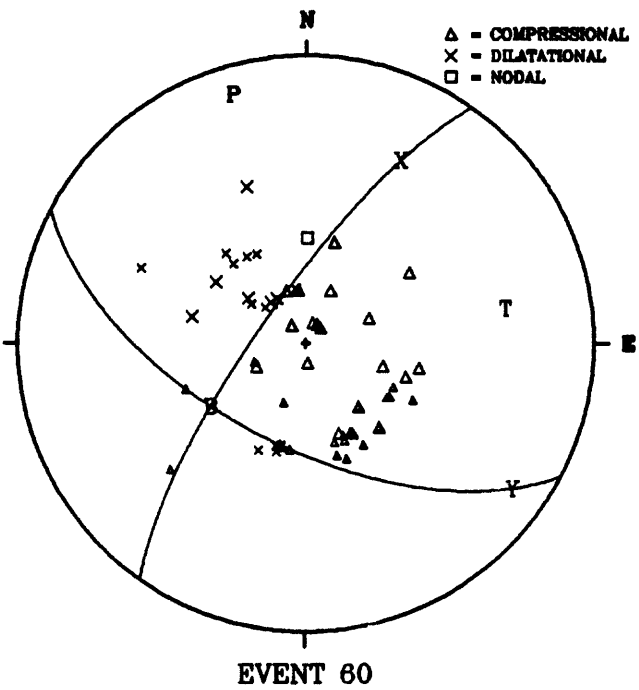
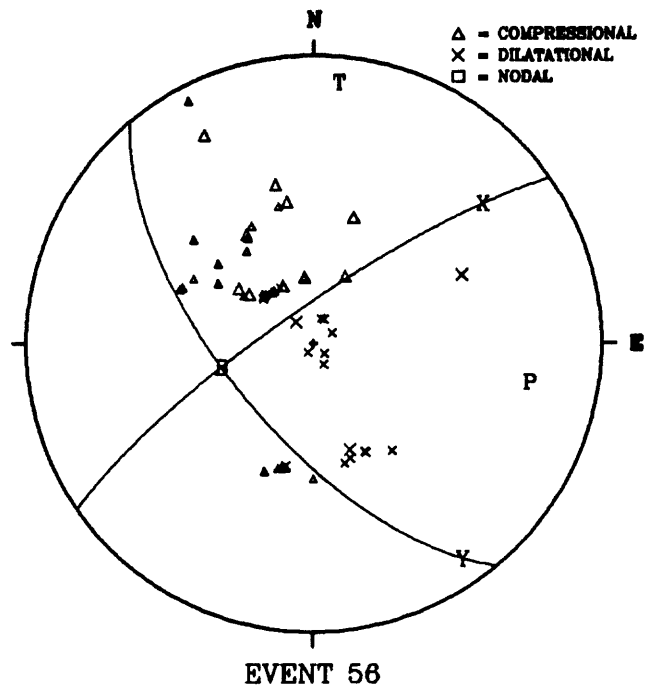
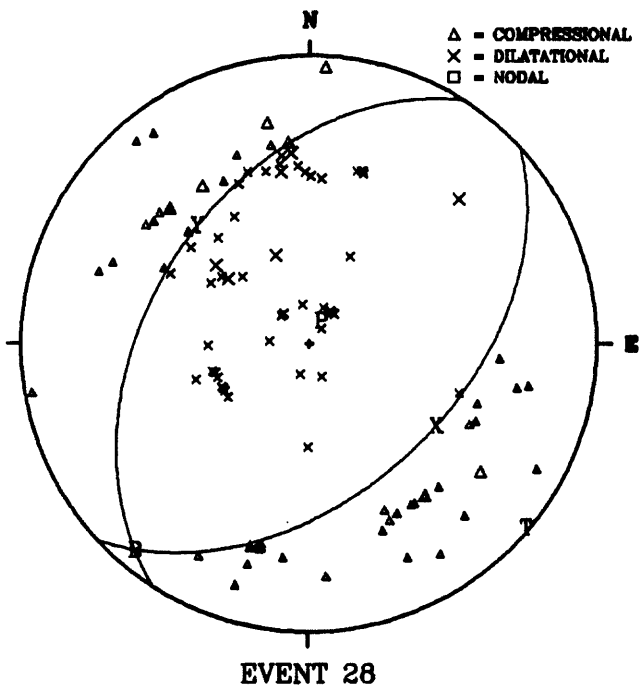


Figure 79. Lower hemisphere focal sphere projection for events 69, 78, 82, and 84.

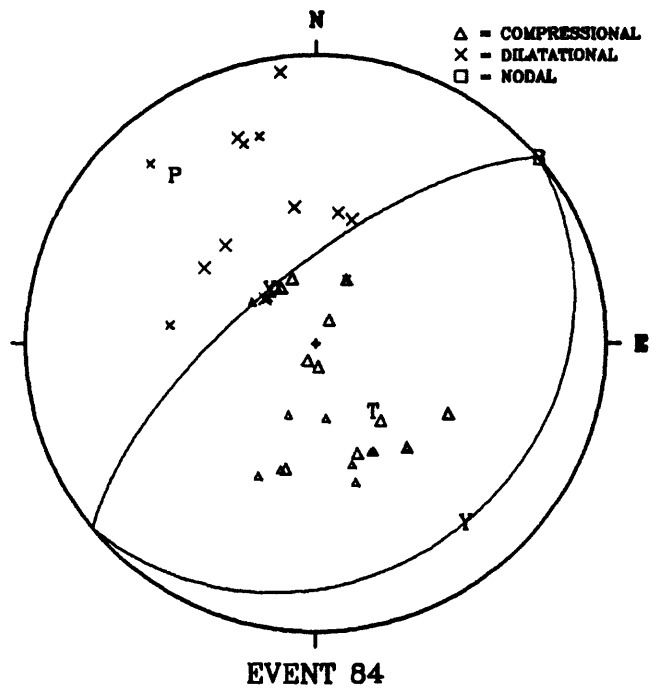
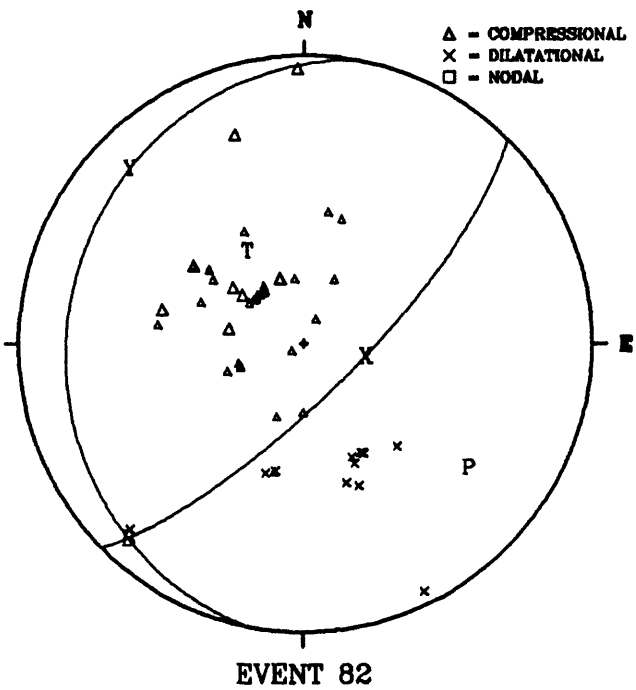
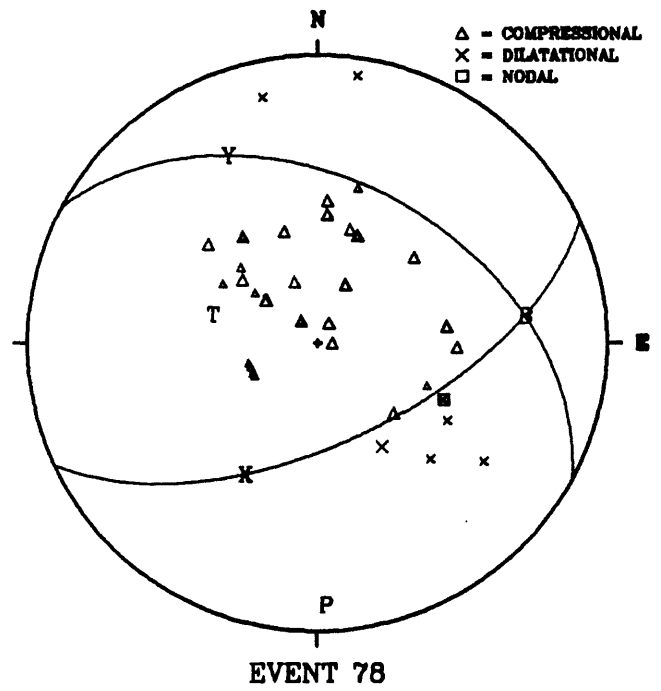
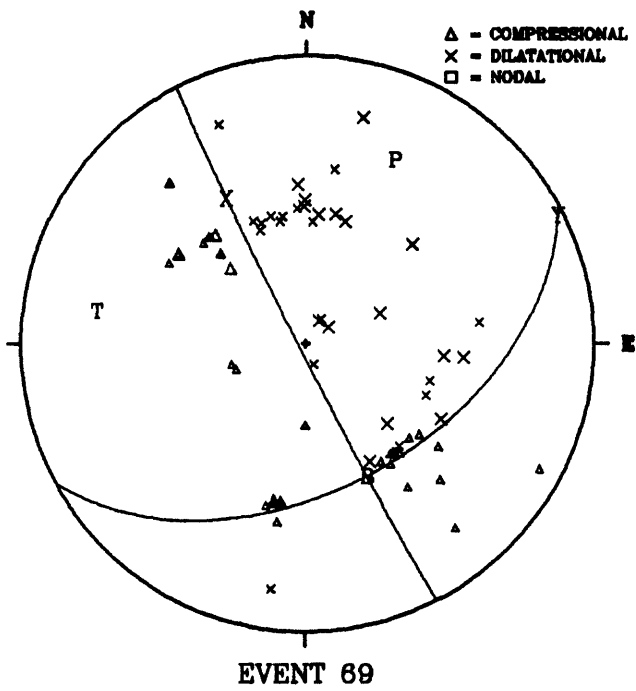


Figure 80. Lower hemisphere focal sphere projection for events 85, 95, 102, and 112.

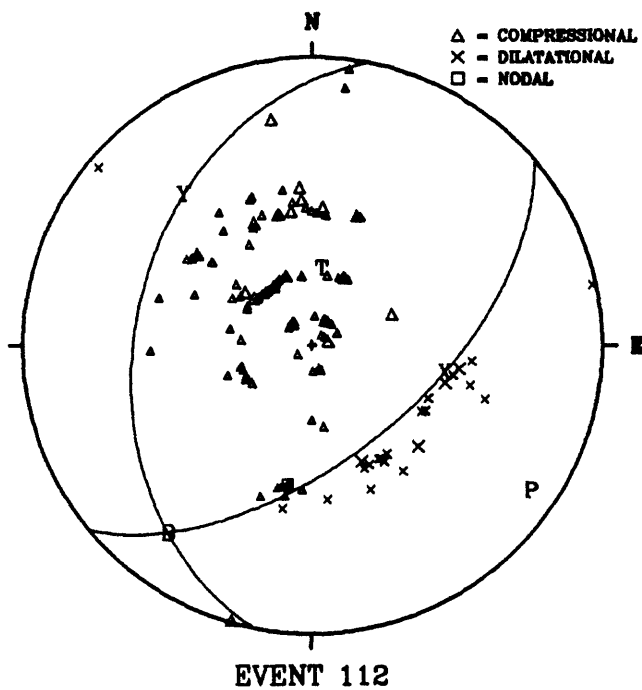
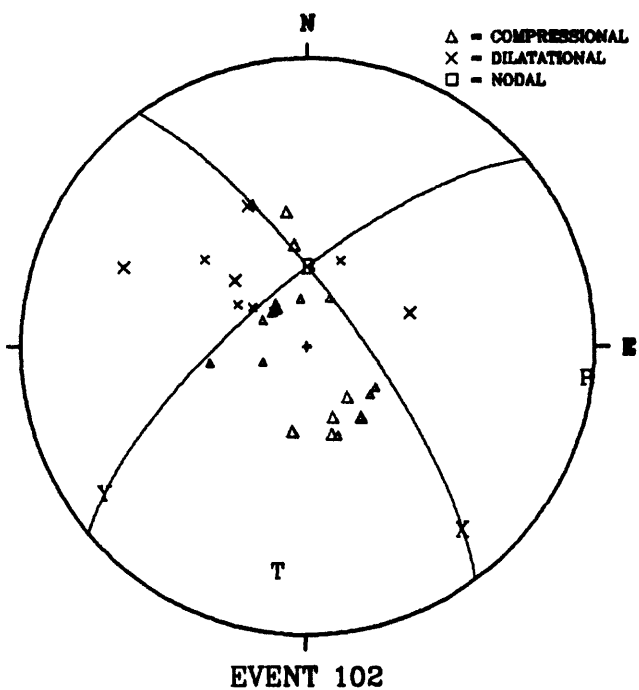
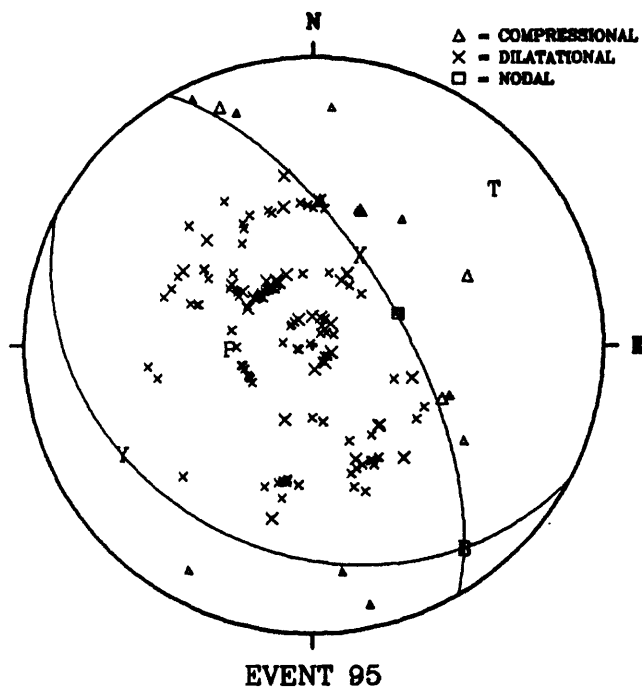
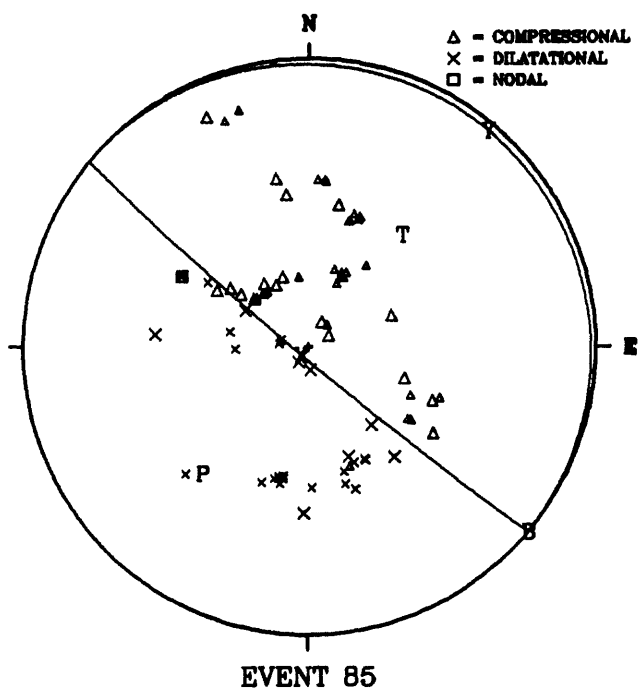


Figure 81. Lower hemisphere focal sphere projection for events 115, 116, 127, and 132.

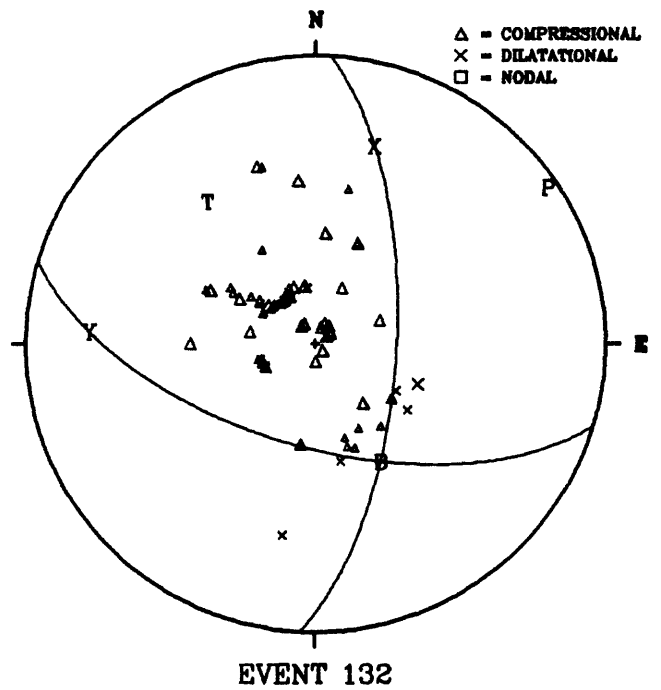
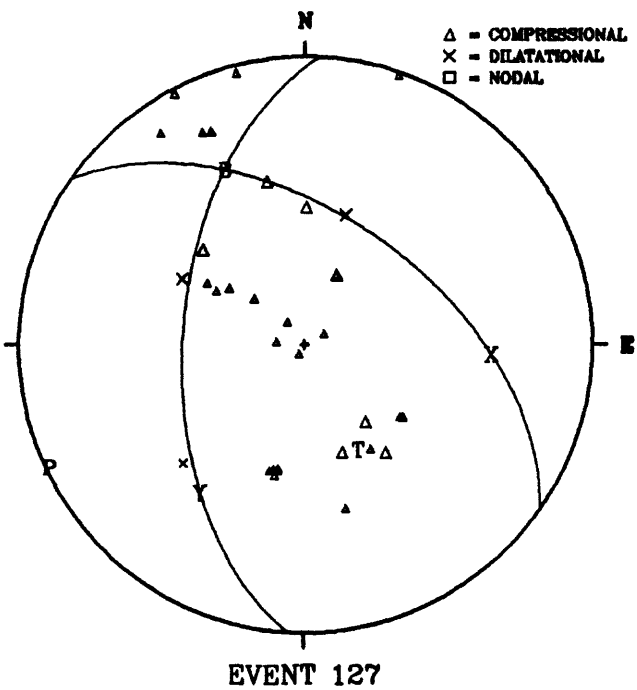
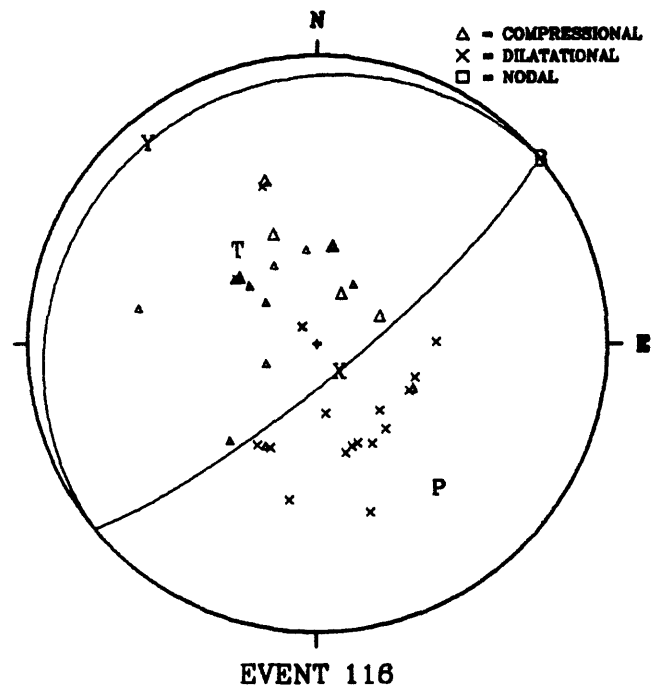
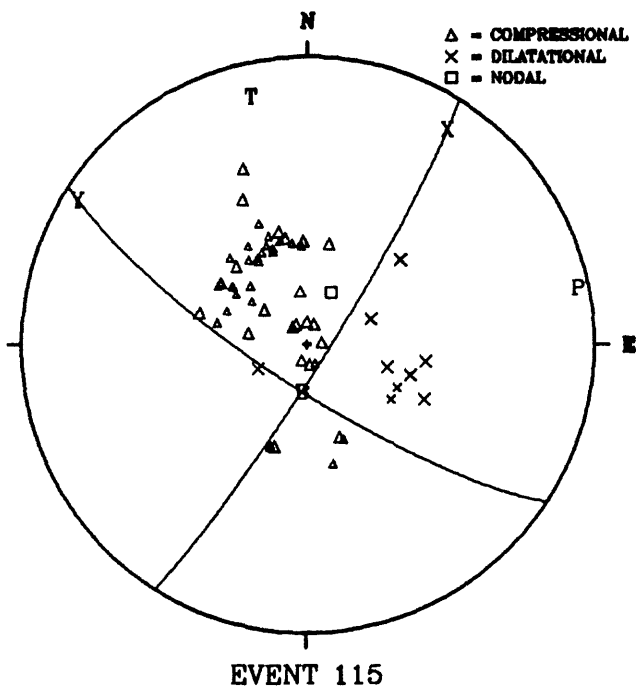


Figure 82. Lower hemisphere focal sphere projection for events 136, 144, 145, and 146.

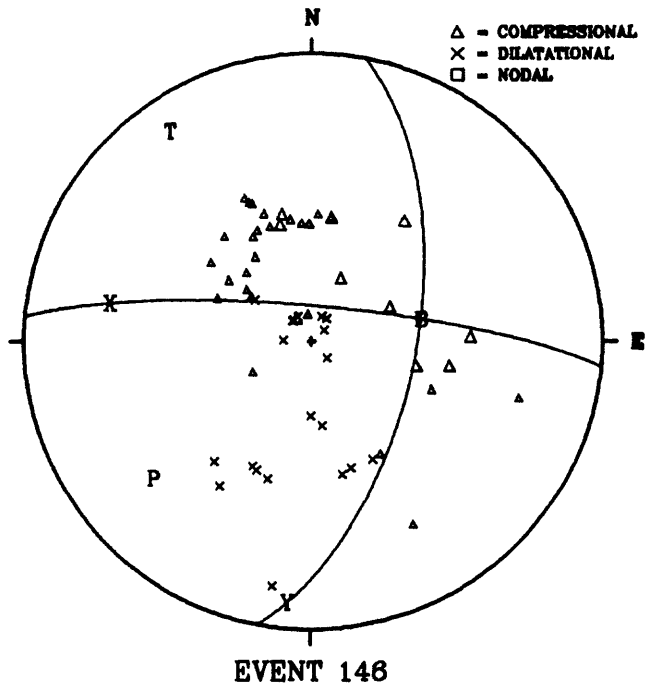
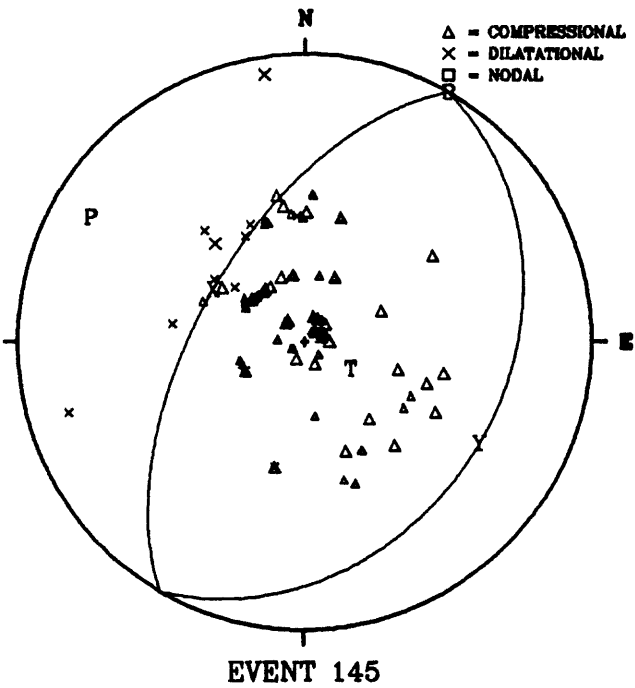
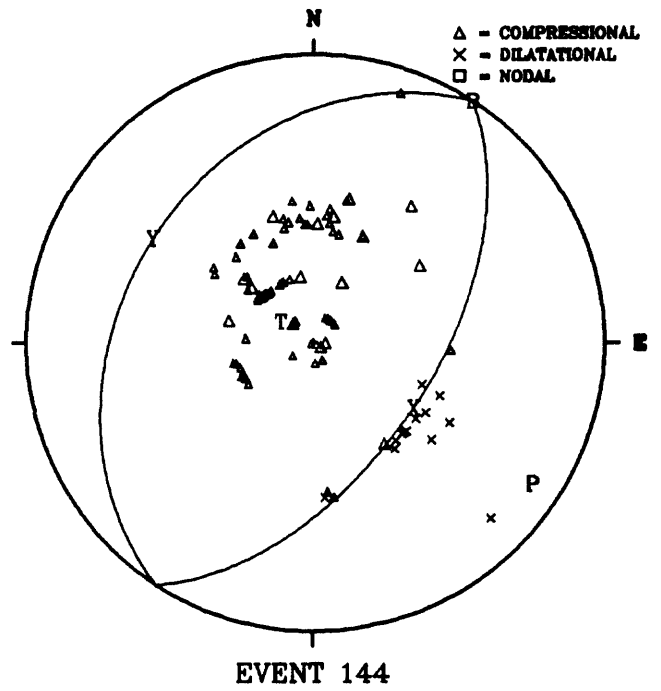
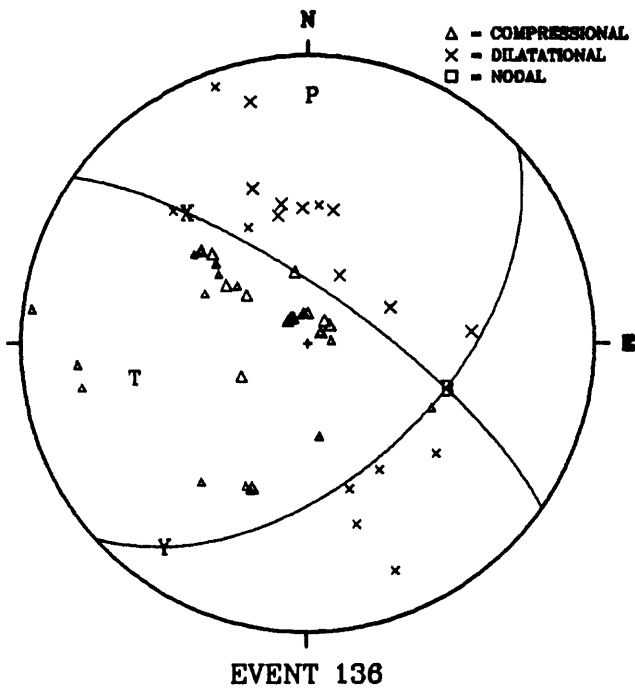


Figure 83. Lower hemisphere focal sphere projection for events 163, 176, 177, and 178.

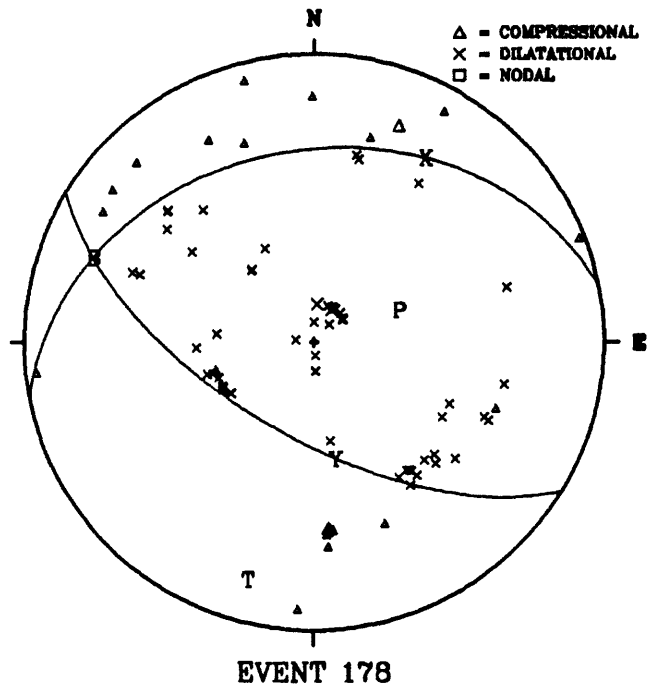
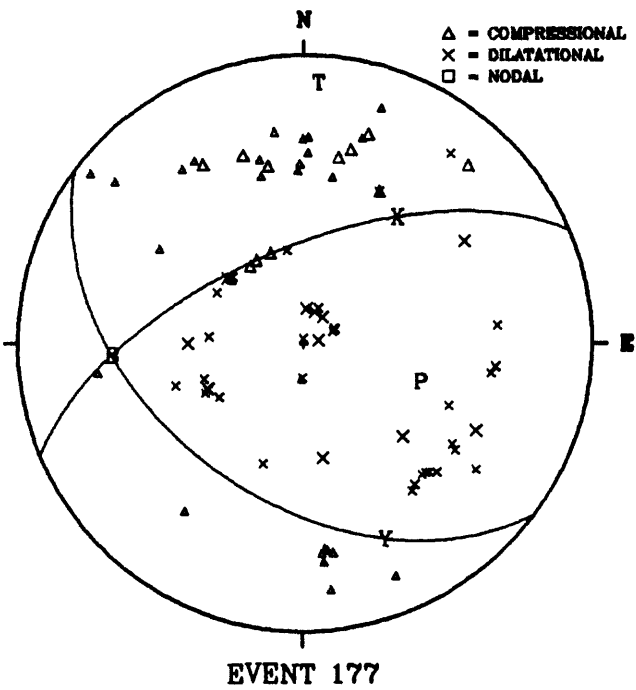
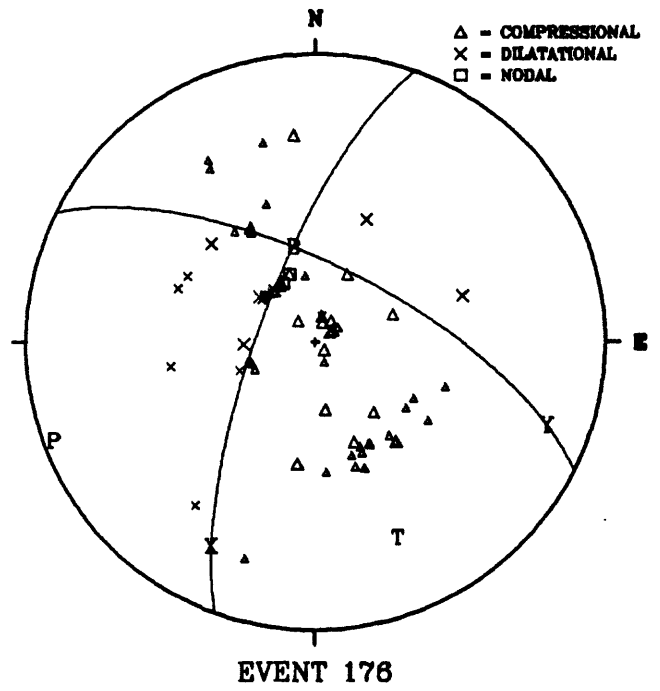
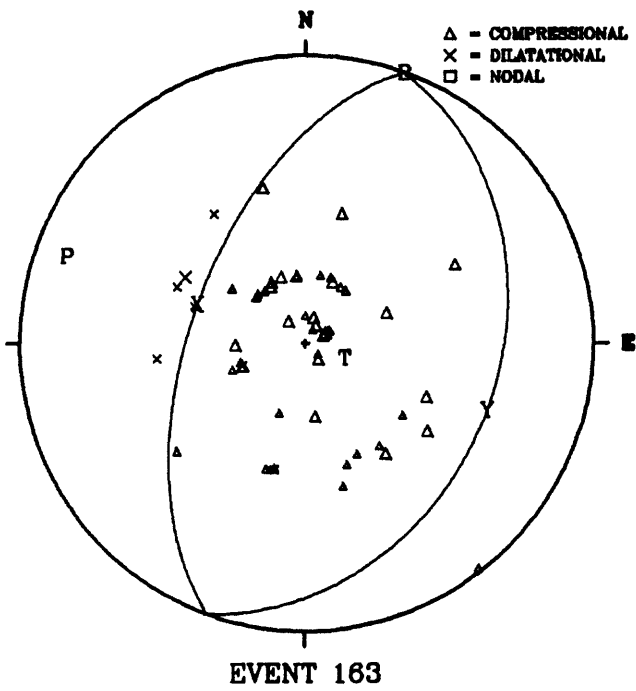


Figure 84. Lower hemisphere focal sphere projection for events 186, 189, 194, and 207.

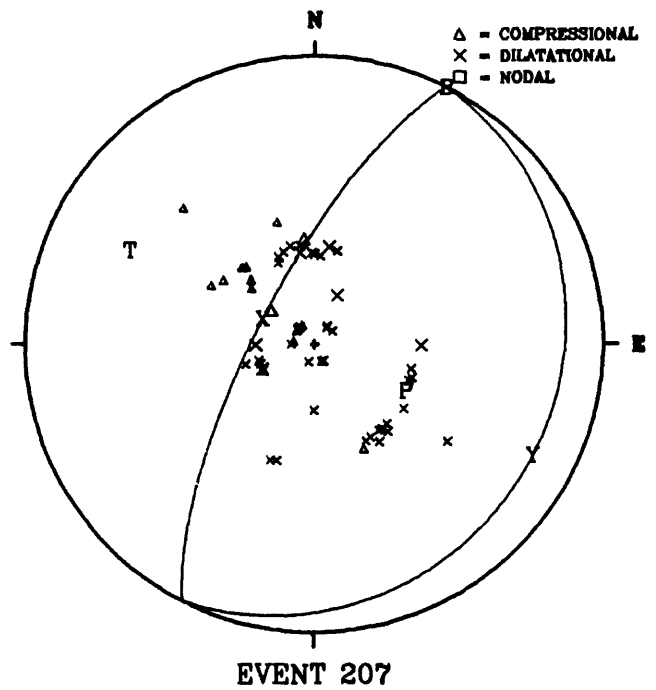
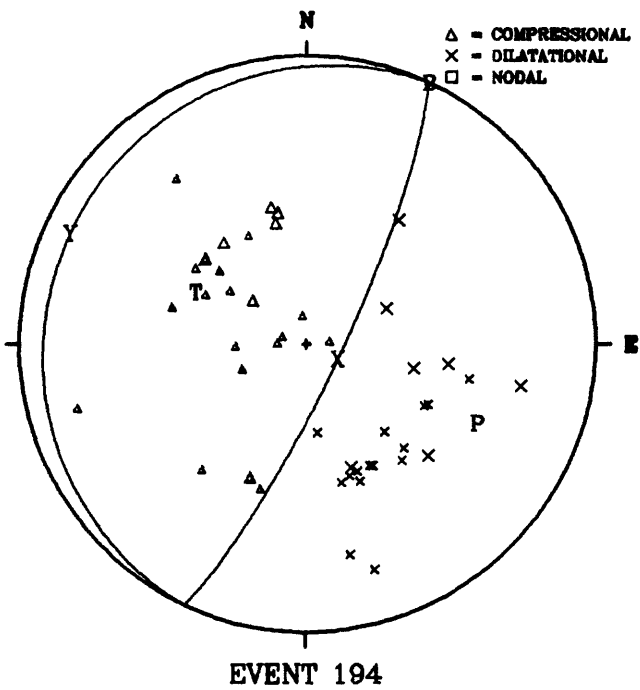
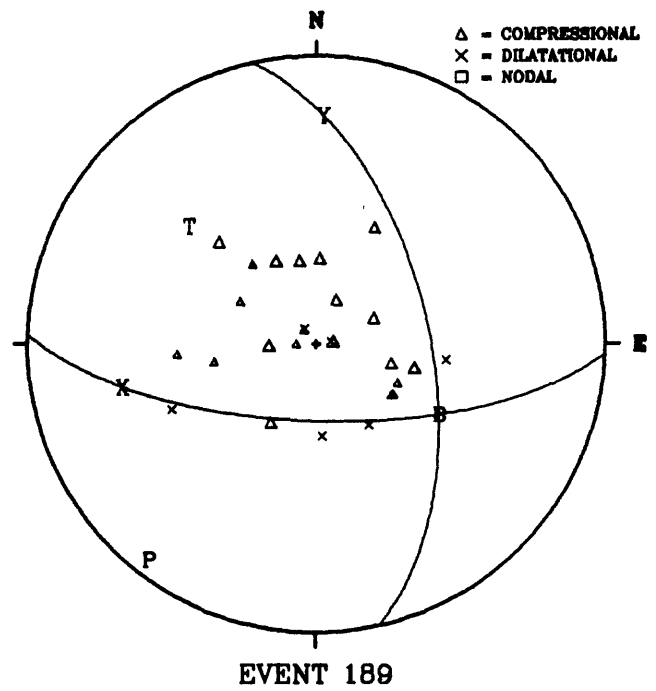
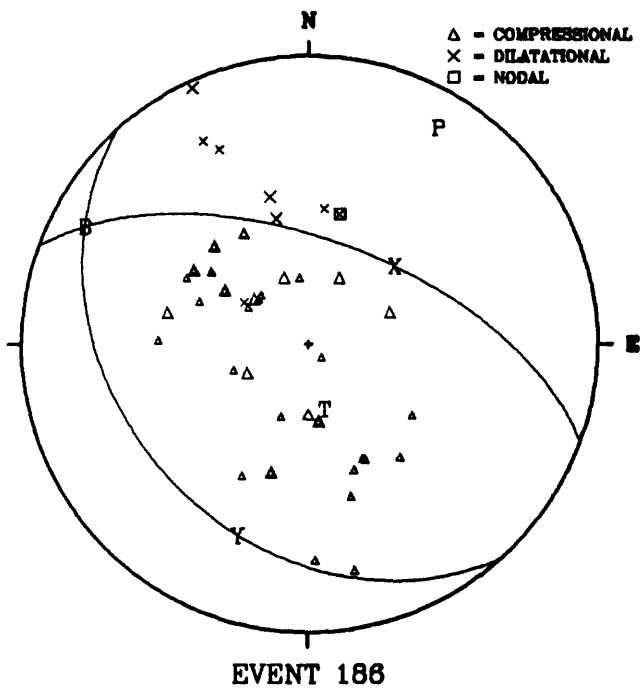


Figure 85. Lower hemisphere focal sphere projection for events 208, 216, and 219.

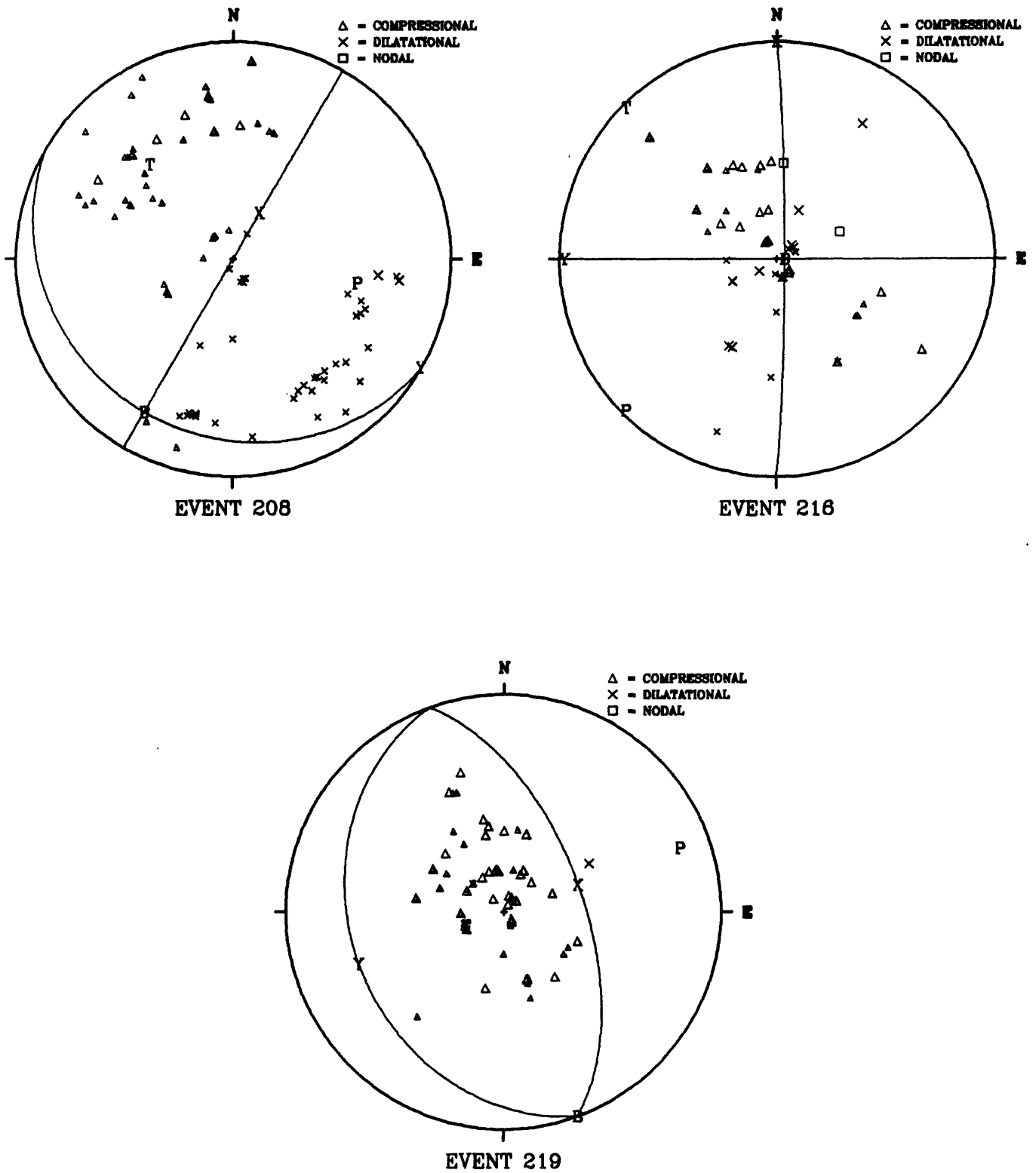


Table 216. Station data for event 3.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	11.938	34.43	13.43	52.11	I	C	LP	P
PLP	15.190	23.75	12.95	49.55	I	C	SP	P
KNA	16.161	143.24	12.77	48.62	I	C	SP	P
PGP	16.355	7.44	12.68	48.17	I	D	SP	P
CVP	20.609	8.19	10.31	37.29	I	C	SP	P
WB2	22.801	139.41	9.76	34.99	I	C	SP	P
WBN	24.353	162.85	9.53	34.05	I	C	SP	P
ISQ	26.925	132.92	9.28	33.04	I	C	SP	P
TATO	27.750	5.23	9.18	32.64	I	C	LP	P
ANP	27.959	5.24	9.18	32.64	I	C	LP	P
PMG	28.919	104.33	9.04	32.09	E	C	LP	P
CHG	29.055	318.49	9.04	32.09	I	D	SP	P
NWAO	29.979	182.65	8.91	31.57	I	C	LP	P
GUMO	30.564	57.15	8.86	31.37	I	C	LP	P
GUA	30.578	57.27	8.86	31.37	I	C	LP	P
CTAO	31.809	124.72	8.75	30.94	I	C	LP	P
CTAO	31.809	124.72	8.75	30.94	I	C	SP	P
CTA	31.809	124.72	8.75	30.94	I	C	LP	P
KMI	31.851	331.61	8.75	30.94	E	D	LP	P
RAB	33.327	93.31	8.65	30.55	I	C	LP	P
SSE	33.801	3.67	8.62	30.43	E	C	LP	P
NJ2	34.678	0.07	8.59	30.31	I	C	SP	P
ADE	36.941	152.27	8.44	29.73	I	C	SP	P
CMS	38.224	141.14	8.38	29.50	I	C	SP	P
BFD	40.558	150.36	8.24	28.96	I	C	SP	P
YOU	41.688	142.08	8.18	28.73	I	C	SP	P
BJI	42.717	357.02	8.13	28.54	I	C	LP	P
CAN	42.763	142.72	8.10	28.42	I	C	SP	P
MAT	43.135	23.04	8.10	28.42	I	C	LP	P
KOD	43.155	288.09	8.10	28.42	I	D	SP	P
WAM	43.284	143.75	8.07	28.31	I	C	SP	P
GBA	44.162	292.72	8.05	28.23	I	D	SP	P
HYB	44.501	298.34	8.02	28.12	I	D	SP	P
MDJ	48.198	10.33	7.81	27.32	I	C	SP	P
POO	49.068	297.46	7.74	27.05	I	D	SP	P
NOU	50.087	116.85	7.66	26.75	I	C	SP	P
NDI	50.725	311.11	7.62	26.60	I	D	SP	P
SNZO	62.996	135.56	6.64	22.96	I	C	LP	P
PCR	64.061	247.89	6.56	22.67	E	D	LP	P
MHI	67.481	311.23	6.26	21.58	I	D	LP	P
SHI	70.991	302.54	5.99	20.61	I	D	SP	P
TAB	78.035	309.70	5.52	18.93	I	D	LP	P
HON	84.674	68.41	5.02	17.16	I	C	LP	P
MTD	86.538	253.45	4.86	16.59	I	D	SP	P
KRI	88.420	253.33	4.75	16.21	I	D	SP	P
HLW	89.188	299.78	4.73	16.14	I	D	SP	P
BPI	89.467	243.98	4.71	16.07	I	D	SP	P
SEK	89.717	241.82	4.71	16.07	I	D	SP	P
VIR	90.402	242.02	4.70	16.03	I	C	SP	P
KSR	90.502	244.23	4.70	16.03	I	C	SP	P

Table 216. Station data for event 3 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BFS	90.541	243.20	4.70	16.03	I	D	SP	P
IST	91.690	310.82	4.68	15.96	I	D	LP	P
KJF	92.998	334.01	4.64	15.82	I	D	LP	P
KEV	93.254	339.60	4.63	15.79	E	N	LP	P
COL	93.986	25.27	4.61	15.72	I	C	LP	P
SUR	95.249	237.30	4.58	15.61	I	D	SP	P
ATH	95.739	307.70	4.56	15.54	I	D	SP	P
BNG	100.435	273.97	4.45	15.16	I	D	SP	Pdf
COP	101.524	326.31	4.45	15.16	E	D	LP	Pdf
DAG	102.559	350.84	4.45	15.16	I	C	LP	Pdf
GWF	105.940	320.28	1.89	6.38	I	C	SP	Pdf
DOU	107.533	321.97	1.89	6.38	E	C	LP	Pdf
TUL	134.110	39.94	1.83	6.17	E	C	LP	Pkp
LPA	142.348	184.39	1.74	5.86	E	C	LP	PKP
SJG	164.050	17.40	0.96	3.25	I	C	LP	Pkp

Table 217. Station data for event 5.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TRT	4.712	269.70	11.56	110.89	I	D	SP	P
BKB	6.423	355.76	12.14	101.04	I	C	SP	P
KNA	13.705	126.70	12.07	77.23	I	D	SP	P
CGP	17.624	24.55	10.27	56.14	I	D	SP	P
MEK	18.834	176.79	10.02	54.08	I	D	SP	P
CCP	19.053	20.01	9.98	53.77	I	D	SP	P
PLP	20.207	22.04	9.78	52.27	I	D	SP	P
WBN	20.311	155.57	9.77	52.13	I	D	SP	P
IPM	20.382	306.25	9.76	52.05	I	C	SP	P
WB2	20.450	128.22	9.75	51.97	I	D	SP	P
PGP	21.360	9.56	9.62	51.00	I	C	SP	P
LGP	21.659	16.96	9.58	50.71	I	D	SP	P
BAL	22.790	181.52	9.44	49.75	I	D	SP	P
MUN	24.173	182.45	9.32	48.87	I	D	SP	P
ISQ	25.031	123.41	9.24	48.33	I	D	SP	P
NWAO	25.094	180.31	9.24	48.29	I	D	SP	P
RKG	26.236	180.71	9.11	47.43	I	D	SP	P
CTAO	30.540	116.75	8.70	44.68	I	D	SP	P
CTA	30.540	116.75	8.70	44.68	I	D	SP	P
GZH	30.852	352.72	8.68	44.56	I	C	SP	P
ADE	33.459	147.21	8.52	43.55	I	D	SP	P
GUMO	34.521	52.34	8.47	43.21	I	C	SP	P
BFD	37.184	145.82	8.31	42.20	I	D	SP	P
WHN	38.135	355.75	8.26	41.91	I	C	SP	P
YOU	38.903	137.23	8.22	41.61	I	C	SP	P
TOO	39.145	143.64	8.20	41.54	I	D	SP	P
COO	39.482	129.79	8.19	41.47	I	D	SP	P
NJ2	39.551	1.95	8.19	41.45	I	C	SP	P
CAN	39.923	138.09	8.17	41.30	I	D	SP	P
WAM	40.364	139.27	8.14	41.13	I	D	SP	P
CD2	40.551	341.85	8.13	41.07	I	C	SP	P
RIV	40.568	134.64	8.13	41.07	I	D	SP	P
XAN	42.279	349.53	8.04	40.54	I	C	SP	P
TIA	43.676	359.69	7.96	40.05	I	C	SP	P
SHK	44.424	18.12	7.93	39.84	I	C	SP	P
TIY	45.411	354.48	7.87	39.48	I	C	SP	P
DL2	46.533	4.56	7.80	39.08	I	C	SP	P
PKI	46.764	319.81	7.78	38.97	I	C	SP	P
DMN	46.984	319.59	7.76	38.87	I	C	SP	P
KKN	46.998	319.91	7.76	38.86	I	C	SP	P
BJI	47.511	358.74	7.72	38.62	I	C	SP	P
MAT	48.152	22.60	7.67	38.31	I	C	SP	P
BTO	48.534	352.51	7.64	38.13	I	C	SP	P
HHC	48.604	354.11	7.63	38.10	I	C	SP	P
NOU	49.334	112.74	7.58	37.75	I	C	SP	P
SNY	49.609	6.07	7.55	37.62	I	C	SP	P
GTA	49.622	342.12	7.55	37.62	I	C	SP	P
POO	50.238	301.76	7.50	37.33	I	C	SP	P
CN2	51.775	7.43	7.38	36.62	I	C	SP	P
MDJ	53.224	10.86	7.28	36.02	I	C	SP	P

Table 217. Station data for event 5 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WMQ	57.903	334.96	6.93	34.06	I	C	SP	P
KSH	60.577	323.99	6.72	32.87	I	C	SP	P
QUE	61.318	310.46	6.66	32.55	I	C	SP	P
AVY	68.342	252.75	6.09	29.50	I	C	SP	P
MHI	69.692	313.14	6.00	29.00	I	C	LP	P
MAW	69.911	199.41	5.99	28.94	I	C	SP	P
IR2	75.838	309.63	5.58	26.81	I	C	SP	P
NAI	80.501	269.99	5.21	24.91	I	C	SP	P
MTD	83.821	253.94	5.00	23.85	I	C	SP	P
KRI	85.689	253.68	4.85	23.07	I	C	SP	P
BPI	86.079	244.25	4.83	22.96	I	C	SP	P
SEK	86.190	242.08	4.82	22.93	I	C	SP	P
BUL	86.246	250.29	4.82	22.91	I	C	SP	P
PRY	86.487	243.45	4.80	22.84	I	C	SP	P
GRM	86.505	237.02	4.80	22.83	I	C	SP	P
BFS	87.100	243.40	4.78	22.70	I	C	SP	P
KSR	87.128	244.44	4.77	22.70	I	C	SP	P
BLF	87.348	241.15	4.76	22.62	I	C	SP	P
SWZ	88.355	242.95	4.72	22.44	I	C	SP	P
SUR	91.438	237.23	4.66	22.13	I	C	SP	P
BNG	99.330	273.24	4.44	21.05	I	C	SP	P
JOS	100.257	317.84	4.44	21.03	I	C	SP	Pdf
FCC	123.657	19.08	1.87	8.68	I	C	SP	PKP
MNT	141.160	12.37	1.75	8.12	I	C	SP	PKP
BMA	144.798	210.48	1.68	7.81	I	C	SP	PKP
BAO	152.663	211.97	1.46	6.80	I	C	SP	PKP

Table 218. Station data for event 17.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WB2	13.888	163.17	12.66	71.56	I	D	SP	P
DAV	14.328	341.48	12.60	70.66	I	D	LP	P
ISQ	16.749	147.82	12.18	65.90	I	D	SP	P
PMG	17.100	100.52	12.09	64.91	I	D	LP	P
ASPA	17.355	168.29	11.98	63.80	I	D	SP	P
TRT	17.381	265.32	11.95	63.50	I	C	SP	P
MAP	17.883	339.97	10.67	53.09	I	C	SP	P
KKM	18.712	311.86	10.45	51.50	I	C	SP	P
WBN	19.722	189.46	10.18	49.71	I	D	SP	P
CTA	20.618	132.11	9.98	48.39	I	D	SP	P
LGP	20.621	342.09	9.98	48.39	I	C	SP	P
RAB	22.083	84.91	9.72	46.76	I	D	LP	P
MEK	22.750	207.67	9.62	46.14	I	C	SP	P
BAG	24.729	337.66	9.39	44.73	I	C	LP	P
KLG	25.392	197.59	9.33	44.37	I	C	SP	P
STK	27.340	158.38	9.13	43.17	I	D	SP	P
KLB	27.418	203.37	9.12	43.11	I	C	SP	P
MUN	28.392	205.44	8.98	42.31	E	C	LP	P
MUN	28.392	205.44	8.98	42.31	I	C	SP	P
CMS	28.792	151.29	8.94	42.03	I	D	SP	P
NWAO	28.804	202.91	8.93	42.02	I	C	LP	P
NWAO	28.804	202.91	8.93	42.02	I	C	SP	P
ADE	29.318	165.49	8.88	41.71	I	D	SP	P
HNR	29.667	97.43	8.85	41.54	E	D	LP	P
RKG	29.904	202.18	8.83	41.44	I	C	SP	P
COO	31.410	142.13	8.72	40.80	I	D	SP	P
YOU	32.304	150.94	8.67	40.50	I	D	SP	P
SNG	32.454	294.42	8.66	40.45	I	C	LP	P
BFD	32.475	161.33	8.66	40.44	I	D	SP	P
TATO	32.483	345.31	8.66	40.44	I	C	LP	P
ANP	32.675	345.46	8.65	40.37	E	C	LP	P
CAN	33.445	151.30	8.60	40.10	I	D	SP	P
TOO	33.853	157.78	8.58	39.97	I	D	SP	P
WAM	34.101	152.34	8.56	39.89	I	D	SP	P
PCT	35.457	306.74	8.48	39.44	I	C	SP	P
NNT	35.710	302.22	8.46	39.35	I	C	SP	P
NST	37.032	306.93	8.38	38.92	I	C	SP	P
KHT	37.792	304.38	8.34	38.66	I	C	SP	P
NOU	38.352	117.84	8.30	38.47	I	D	SP	P
SSE	38.436	347.63	8.30	38.45	E	C	LP	P
BDT	38.814	308.02	8.29	38.37	I	C	SP	P
TAU	39.221	159.90	8.26	38.26	E	C	LP	P
CHG	39.772	309.96	8.23	38.07	I	C	LP	P
CHTO	39.772	309.96	8.23	38.07	I	C	SP	P
WHN	39.898	338.56	8.22	38.03	I	C	SP	P
SHK	40.972	3.22	8.17	37.73	I	C	SP	P
KMI	41.275	320.81	8.15	37.63	I	C	SP	P
MAT	43.572	9.47	8.02	36.95	I	C	SP	P
SEO	44.027	356.40	8.01	36.86	I	C	LP	P
CD2	45.024	327.35	7.95	36.53	I	C	SP	P

Table 218. Station data for event 17 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TIY	47.062	340.79	7.82	35.88	I	C	SP	P
SNY	48.554	353.48	7.71	35.30	I	C	SP	P
LZH	49.102	331.68	7.67	35.07	I	C	SP	P
CN2	50.335	355.61	7.57	34.55	I	C	SP	P
MDJ	50.974	359.52	7.52	34.28	I	C	SP	P
LSA	51.987	316.01	7.44	33.86	I	C	SP	P
SNZO	52.548	138.22	7.39	33.63	E	C	LP	P
GTA	53.674	330.97	7.30	33.17	I	C	SP	P
PKI	54.952	310.28	7.21	32.68	I	C	SP	P
KOD	55.032	287.28	7.20	32.66	I	C	SP	P
KKN	55.163	310.44	7.19	32.61	I	C	SP	P
DMN	55.201	310.15	7.19	32.59	I	C	SP	P
HYB	56.242	295.91	7.11	32.19	I	C	SP	P
DRV	60.356	175.48	6.80	30.62	I	C	SP	P
POO	60.830	295.36	6.76	30.43	I	C	SP	P
NDI	61.831	307.35	6.68	30.03	I	C	SP	P
BOM	61.875	295.39	6.68	30.01	I	C	SP	P
WMQ	63.118	326.81	6.58	29.52	I	C	SP	P
KSH	67.764	317.32	6.20	27.66	I	C	SP	P
QUE	70.658	305.03	5.98	26.60	I	C	LP	P
HON	75.704	66.13	5.63	24.96	E	C	LP	P
MHI	78.519	308.95	5.45	24.08	I	C	LP	P
AVY	80.713	251.95	5.24	23.12	I	C	SP	P
SHI	82.548	300.97	5.12	22.53	I	C	SP	P
SPA	83.447	180.00	5.06	22.28	I	C	SP	P
ARO	88.641	281.69	4.72	20.73	I	C	LP	P
TAB	89.154	308.30	4.72	20.69	I	C	LP	P
IMA	90.432	23.34	4.70	20.62	I	C	SP	P
BRW	90.863	17.98	4.69	20.58	I	C	SP	P
COL	92.573	25.02	4.65	20.38	I	C	SP	P
COL	92.573	25.02	4.65	20.38	E	C	LP	P
SLR	97.730	242.99	4.51	19.73	E	C	LP	P
BPI	97.868	242.51	4.50	19.72	I	C	SP	P
KRI	98.082	252.01	4.50	19.69	I	C	SP	P
BUL	98.459	248.57	4.48	19.61	I	C	SP	P
BLF	98.862	239.28	4.47	19.58	I	C	SP	P
KSR	98.928	242.61	4.47	19.57	I	C	SP	P
SUF	102.227	332.77	4.44	19.43	I	C	SP	Pdf
DAG	107.878	352.81	1.89	8.14	I	C	SP	Pdf
BNG	111.896	272.13	1.89	8.14	I	C	SP	PKP
WET	112.623	320.76	1.89	8.13	I	C	SP	PKP
KBA	112.903	318.51	1.89	8.12	I	C	SP	PKP
BHG	113.030	319.28	1.89	8.12	I	C	SP	PKP
LRM	113.682	42.67	1.88	8.12	I	C	SP	PKP
FUR	113.930	320.09	1.88	8.11	I	C	SP	PKP
OGA	114.486	318.79	1.88	8.11	I	C	SP	PKP
MNS	114.570	313.69	1.88	8.11	I	C	SP	PKP
OSS	115.118	318.80	1.88	8.10	I	C	LP	PKP
SAX	115.457	319.58	1.88	8.10	I	C	LP	PKP
VDL	115.622	318.75	1.88	8.10	I	C	LP	PKP

Table 218. Station data for event 17 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BUH	115.680	321.35	1.88	8.09	I	C	SP	PKP
LLS	115.807	319.27	1.88	8.09	I	C	LP	PKP
SLE	115.829	320.34	1.88	8.09	I	C	LP	PKP
GWF	115.946	321.82	1.88	8.09	I	C	SP	PKP
ZUL	115.992	320.06	1.88	8.09	I	C	LP	PKP
TMA	116.137	318.50	1.88	8.09	I	C	SP	PKP
ENN	116.279	324.14	1.88	8.09	I	C	SP	PKP
MMK	116.751	318.67	1.88	8.09	I	C	LP	PKP
BSF	116.879	320.86	1.88	8.09	I	C	SP	PKP
HAU	117.092	321.16	1.88	8.09	I	C	SP	PKP
CVF	117.236	314.73	1.88	8.09	I	C	SP	PKP
DOU	117.329	323.84	1.88	8.08	I	C	SP	PKP
EMS	117.421	318.97	1.88	8.08	I	C	LP	PKP
FCC	117.943	24.29	1.88	8.08	I	C	SP	PKP
FRF	118.470	316.38	1.88	8.08	I	C	SP	PKP
LMR	118.640	316.17	1.88	8.08	I	C	SP	PKP
LRG	118.701	316.34	1.88	8.08	I	C	SP	PKP
LOR	118.930	321.13	1.88	8.08	I	C	SP	PKP
LBF	118.970	320.80	1.88	8.08	I	C	SP	PKP
SMF	119.191	320.49	1.87	8.07	I	C	SP	PKP
SSF	119.234	321.03	1.87	8.07	I	C	SP	PKP
GRC	119.407	321.41	1.87	8.07	I	C	SP	PKP
AVF	119.440	320.79	1.87	8.07	I	C	SP	PKP
MZF	120.160	320.44	1.87	8.07	I	C	SP	PKP
TCF	120.366	320.64	1.87	8.06	I	C	SP	PKP
LDF	120.760	323.86	1.87	8.06	I	C	SP	PKP
FLN	120.890	324.16	1.87	8.06	I	C	SP	PKP
CAF	121.022	319.25	1.87	8.06	I	C	SP	PKP
RJF	121.219	319.84	1.87	8.06	I	C	SP	PKP
GRR	121.288	323.92	1.87	8.06	I	C	SP	PKP
DMU	121.481	331.77	1.87	8.06	I	C	SP	PKP
DDK	121.518	331.05	1.87	8.06	I	C	SP	PKP
LPF	121.567	323.62	1.87	8.06	I	C	SP	PKP
DLE	121.676	331.04	1.87	8.06	I	C	SP	PKP
MFF	121.695	321.80	1.87	8.06	I	C	SP	PKP
LFF	121.871	319.72	1.87	8.06	I	C	SP	PKP
EPF	122.937	317.81	1.87	8.05	I	C	SP	PKP
CRT	128.097	312.82	1.86	8.00	I	C	SP	PKP
UPA	150.532	83.45	1.54	6.63	I	C	SP	PKP
LPB	150.798	142.08	1.53	6.59	E	C	LP	PKP
TOV	160.042	79.54	1.16	4.99	I	C	SP	PKP
SJG	160.441	52.73	1.14	4.91	I	C	SP	PKP
SOB1	161.925	209.81	1.07	4.59	I	C	SP	PKP

Table 219. Station data for event 20.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	2.082	120.23	3.81	156.46	I	D	LP	P
BAG	8.780	339.57	9.21	105.06	I	C	LP	P
BKB	11.568	216.47	9.52	93.51	I	D	SP	P
AAI	12.557	159.22	9.53	88.86	I	C	SP	P
TWG	14.815	350.25	9.46	82.84	I	C	SP	P
TWF1	15.301	351.38	9.43	81.59	I	C	SP	P
TWK	15.357	348.56	9.43	81.46	I	C	SP	P
ISI	16.098	1.33	9.40	80.22	I	D	SP	P
TLE	16.364	146.51	9.38	79.64	I	C	SP	P
ANP	17.075	353.06	9.34	78.29	I	D	LP	P
KUPT	18.175	180.49	9.27	76.47	I	C	SP	P
KUG	18.188	180.55	9.27	76.45	I	C	SP	P
KMJ	18.317	8.72	9.26	76.25	I	D	SP	P
NAH	18.351	11.25	9.26	76.20	I	D	SP	P
NGO	18.776	11.79	9.24	75.60	I	D	SP	P
MVI	18.967	21.14	9.22	75.31	I	D	SP	P
TRT	19.258	215.44	9.20	74.77	I	C	SP	P
KGM	21.245	254.44	9.02	71.02	I	C	SP	P
PJG	21.412	73.55	9.00	70.70	I	D	SP	P
GUA	21.444	73.71	9.00	70.64	I	C	LP	P
LEM	21.916	227.71	8.96	69.97	I	C	LP	P
TZZ	21.926	126.86	8.96	69.95	I	C	SP	P
MTN	22.101	160.58	8.94	69.68	I	C	SP	P
TNG	22.217	230.70	8.93	69.48	I	C	SP	P
PCT	22.838	288.52	8.87	68.51	I	C	SP	P
SSE	22.956	354.33	8.86	68.37	I	D	LP	P
TAJ	23.466	15.81	8.83	67.86	I	D	SP	P
NNT	24.038	282.60	8.80	67.32	I	C	SP	P
KAG	24.150	14.28	8.79	67.21	I	D	SP	P
KHT	25.518	287.26	8.71	65.97	I	C	SP	P
MOM	25.655	112.24	8.70	65.85	I	C	SP	P
BDT	25.762	292.95	8.70	65.75	I	C	SP	P
CHG	26.322	296.28	8.66	65.25	I	C	LP	P
CHTO	26.322	296.28	8.66	65.25	I	C	SP	P
KOC	26.845	18.30	8.64	64.93	I	D	SP	P
LAT	27.441	121.74	8.60	64.46	I	C	SP	P
SHK	27.507	16.08	8.60	64.40	I	D	SP	P
WKY	27.997	20.43	8.57	63.99	I	D	SP	P
OKA	28.006	18.02	8.57	63.99	I	D	SP	P
MTS	28.483	16.08	8.55	63.73	I	D	SP	P
PMG	29.102	126.35	8.52	63.24	I	C	LP	P
SEO	29.428	5.19	8.49	62.97	I	D	LP	P
NAG	29.490	22.35	8.49	62.92	I	D	SP	P
WB7	29.709	159.51	8.48	62.79	I	C	SP	P
WB3	29.777	159.61	8.48	62.79	I	C	SP	P
SRY	30.796	25.19	8.43	62.13	I	D	SP	P
KYS	30.829	26.80	8.43	62.11	I	D	SP	P
RAB	30.872	112.38	8.43	62.08	I	C	LP	P
DDR	31.097	24.70	8.42	61.94	I	D	SP	P
MAT	31.175	22.84	8.41	61.89	I	D	LP	P

Table 219. Station data for event 20 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TSK	31.664	25.70	8.38	61.50	I	D	SP	P
ALOA	32.213	124.20	8.35	61.09	I	C	SP	P
BJI	32.471	349.12	8.33	60.89	I	D	LP	P
ISQ	32.609	151.79	8.33	60.81	I	C	SP	P
ASPA	33.131	162.82	8.30	60.54	I	C	SP	P
LZH	33.222	329.76	8.30	60.48	I	C	LP	P
YAM	33.504	24.03	8.28	60.26	I	D	SP	P
WBN	34.185	175.49	8.25	59.90	I	C	SP	P
OFU	34.752	24.90	8.22	59.56	I	D	SP	P
CTA	35.735	142.00	8.17	58.95	I	C	LP	P
HAK	36.744	21.43	8.12	58.37	I	D	SP	P
SUT	37.422	20.10	8.08	57.97	I	D	SP	P
SAP	38.038	21.04	8.06	57.68	I	D	SP	P
OBI	38.622	23.09	8.02	57.30	I	D	SP	P
KLK	38.765	183.17	8.02	57.26	I	C	SP	P
BAL	39.116	189.66	8.00	57.07	I	C	SP	P
KLB	39.923	187.99	7.96	56.63	I	C	SP	P
MUN	40.540	189.90	7.93	56.24	I	C	LP	P
MUN	40.540	189.90	7.93	56.24	I	C	SP	P
PKI	41.059	303.00	7.90	55.91	I	C	SP	P
KKN	41.243	303.25	7.89	55.82	I	C	SP	P
NWAO	41.309	188.33	7.89	55.82	I	C	SP	P
DMN	41.324	302.91	7.89	55.81	I	C	SP	P
RKG	42.464	188.31	7.82	55.11	I	C	SP	P
STK	43.292	157.67	7.77	54.54	I	C	SP	P
CMS	44.704	152.85	7.67	53.50	I	C	SP	P
HYB	44.943	286.43	7.65	53.29	I	C	SP	P
ADE	45.142	162.61	7.63	53.13	I	C	SP	P
COO	47.016	146.23	7.50	51.85	I	C	SP	P
YOU	48.207	152.44	7.41	50.96	I	C	SP	P
NDI	48.278	301.29	7.41	50.94	I	C	SP	P
BFD	48.392	159.88	7.40	50.87	I	C	SP	P
KOU	48.995	126.22	7.35	50.43	I	C	SP	P
RIV	49.175	149.59	7.34	50.29	I	C	LP	P
POO	49.506	287.35	7.31	50.04	I	C	SP	P
TOO	49.807	157.35	7.29	49.89	I	C	SP	P
WAM	50.028	153.38	7.28	49.75	I	C	SP	P
PVC	50.964	120.60	7.20	49.05	I	C	SP	P
NOU	51.625	126.78	7.16	48.69	I	C	SP	P
TAU	55.156	159.03	6.92	46.51	I	C	SP	P
MHI	64.519	306.28	6.21	40.62	I	D	LP	P
ADK	65.074	36.11	6.16	40.27	I	D	SP	P
NUK	66.595	117.13	6.05	39.40	I	C	SP	P
SNZO	67.825	140.82	5.97	38.77	I	C	LP	P
PCR	72.977	244.97	5.63	36.19	E	D	LP	P
TAB	75.142	307.15	5.50	35.23	I	D	LP	P
HON	76.162	70.06	5.43	34.70	E	D	LP	P
BRW	78.960	18.85	5.18	32.92	I	D	SP	P
PME	81.564	28.84	5.03	31.81	I	D	SP	P
FBA	82.023	25.51	5.00	31.61	I	D	SP	P

Table 219. Station data for event 20 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
COL	82.023	25.51	5.00	31.61	I	D	SP	P
COL	82.023	25.51	5.00	31.61	I	D	LP	P
KVT	82.994	310.44	4.94	31.21	I	D	SP	P
JER	84.556	301.20	4.82	30.34	I	D	SP	P
KEV	84.755	339.69	4.80	30.25	I	D	LP	P
SOD	85.284	337.34	4.78	30.07	I	D	SP	P
KJF	85.359	334.11	4.78	30.05	I	D	LP	P
PCA	85.980	29.98	4.75	29.88	I	D	SP	P
INK	87.156	21.30	4.71	29.58	I	D	SP	P
GPA	87.418	310.15	4.71	29.60	I	D	SP	P
NUR	87.436	330.72	4.71	29.60	I	D	LP	P
HLW	88.086	299.72	4.70	29.51	I	D	SP	P
CFR	88.220	315.23	4.70	29.50	I	C	SP	P
ISK	88.240	311.06	4.70	29.49	I	C	SP	P
ELL	88.258	306.70	4.69	29.49	I	D	SP	P
TLB	88.404	314.66	4.69	29.47	I	D	SP	P
PSN	88.451	313.75	4.69	29.47	I	D	SP	P
DST	88.802	309.68	4.68	29.42	I	D	SP	P
SIT	89.114	32.45	4.68	29.37	I	D	SP	P
ISR	89.348	315.39	4.67	29.34	I	D	SP	P
CVO	89.474	316.11	4.67	29.32	I	D	SP	P
MLR	89.697	315.82	4.67	29.29	I	D	SP	P
BUC1	89.859	314.68	4.66	29.28	I	D	SP	P
EZN	90.510	310.21	4.64	29.11	I	C	SP	P
PRK	90.661	309.65	4.64	29.08	I	D	SP	P
PVL	90.707	313.63	4.63	29.08	I	D	SP	P
KDZ	90.882	312.13	4.63	29.07	I	D	SP	P
UPP	90.995	330.99	4.63	29.05	I	D	SP	P
WAR	91.333	323.13	4.62	28.95	E	D	LP	P
NPS	91.947	305.85	4.60	28.85	I	D	SP	P
MMB	92.082	312.34	4.60	28.82	I	D	SP	P
DAG	92.524	351.94	4.58	28.70	I	D	SP	P
DAG	92.524	351.94	4.58	28.70	I	D	LP	P
KRA	92.572	321.20	4.58	28.68	I	D	SP	P
JOS	92.611	319.59	4.58	28.67	I	D	SP	P
TIM	92.872	316.80	4.56	28.59	I	D	SP	P
ATH	92.881	308.81	4.56	28.59	I	D	SP	P
VAY	92.991	312.27	4.56	28.57	I	D	SP	P
PSZ	93.181	319.15	4.56	28.53	I	D	SP	P
KZN	93.820	311.43	4.54	28.45	I	D	SP	P
BUD	93.866	318.89	4.54	28.45	I	D	SP	P
MTD	94.384	253.76	4.53	28.38	I	D	SP	P
KSP	94.565	322.65	4.53	28.35	I	D	SP	P
KONO	94.852	332.29	4.52	28.31	I	D	LP	P
COP	95.047	328.02	4.52	28.28	I	D	LP	P
VLS	95.232	309.59	4.52	28.26	I	D	SP	P
VIE	95.349	320.16	4.51	28.24	I	D	LP	P
VKA	95.371	320.18	4.51	28.24	I	D	SP	P
PHC	95.412	37.20	4.51	28.24	I	D	SP	P
BRN	95.837	324.79	4.50	28.19	I	D	SP	P

Table 219. Station data for event 20 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PRU	95.906	322.21	4.50	28.17	I	D	SP	P
BRG	95.957	323.18	4.50	28.16	I	D	LP	P
KRI	96.262	253.93	4.49	28.08	I	D	SP	P
CLL	96.356	323.80	4.48	28.05	I	D	SP	P
MUD	96.411	329.47	4.48	28.04	I	D	SP	P
LCI	96.629	312.22	4.48	28.00	I	D	SP	P
RSNT	96.700	23.47	4.47	27.98	I	D	LP	P
KMR	96.822	320.47	4.47	27.98	I	D	LP	P
WET	97.216	321.79	4.46	27.90	I	D	SP	P
LJU	97.247	318.47	4.46	27.89	I	D	SP	P
HAM	97.264	326.54	4.46	27.87	I	D	SP	P
HOF	97.389	323.13	4.45	27.84	I	D	SP	P
CEY	97.419	318.20	4.45	27.83	I	D	SP	P
MOX	97.417	323.51	4.45	27.83	I	D	LP	P
BUL	97.565	250.74	4.45	27.80	I	D	SP	P
BUL	97.565	250.74	4.45	27.80	I	D	LP	P
KBA	97.662	319.73	4.45	27.79	I	D	SP	P
BHG	97.730	320.45	4.44	27.78	I	D	SP	P
TRI	97.866	318.34	4.44	27.76	I	D	SP	P
GRF	98.017	322.71	4.44	27.75	I	D	SP	P
GRFO	98.021	322.72	4.44	27.75	I	D	LP	P
SLR	98.398	245.17	4.44	27.75	I	D	SP	P
FUR	98.567	321.27	4.44	27.75	I	D	SP	P
CTI	99.124	319.19	4.44	27.75	I	D	SP	P
SEK	99.192	242.62	4.44	27.75	I	D	SP	P
OGA	99.218	320.12	4.44	27.75	I	D	SP	P
AQU	99.257	315.24	4.44	27.75	I	D	SP	P
WIT	99.316	326.79	4.44	27.75	I	D	SP	P
TNS	99.443	323.94	4.44	27.75	I	D	SP	P
WTS	99.605	326.01	4.44	27.75	I	D	SP	P
STU	99.601	322.39	4.44	27.75	I	D	LP	P
MNS	99.749	315.46	4.44	27.75	I	D	SP	P
BFS	99.830	244.11	4.44	27.75	I	D	SP	P
BNS	99.857	324.97	4.44	27.75	I	D	SP	P
RMP	99.933	314.90	4.44	27.75	I	D	SP	P
SAL	100.018	319.07	4.44	27.75	I	D	SP	Pdf
COR	100.209	41.97	4.44	27.75	I	D	SP	Pdf
COR	100.209	41.97	4.44	27.75	I	D	LP	Pdf
FIR	100.223	317.15	4.44	27.75	I	D	SP	Pdf
GRM	100.409	237.64	4.44	27.75	I	D	SP	Pdf
DBN	100.454	326.57	4.44	27.75	I	D	LP	Pdf
GWF	100.459	323.02	4.44	27.75	I	D	SP	Pdf
BLF	100.504	241.92	4.44	27.75	I	D	SP	Pdf
PNT	100.598	36.53	4.44	27.75	I	D	SP	Pdf
ENN	100.655	325.15	4.44	27.75	I	D	SP	Pdf
WLF	101.022	324.08	4.44	27.75	E	D	LP	Pdf
ECH	101.065	322.45	4.44	27.75	I	D	SP	Pdf
BAF	101.328	322.15	4.44	27.75	I	D	SP	Pdf
UCC	101.520	325.65	4.44	27.75	E	D	LP	Pdf
EDM	102.171	31.10	4.44	27.75	I	D	SP	Pdf

Table 219. Station data for event 20 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WDC	102.234	45.54	4.44	27.75	I	D	SP	Pdf
LDM	103.514	35.97	4.44	27.75	I	D	SP	Pdf
VDM	103.560	324.79	4.44	27.75	E	D	LP	Pdf
CLX	103.741	36.13	4.44	27.75	I	D	SP	Pdf
GRC	103.937	322.90	4.44	27.75	I	D	SP	Pdf
BNG	104.374	276.69	4.44	27.75	I	D	SP	Pdf
BNG	104.374	276.69	4.44	27.75	I	D	LP	Pdf
JAS	104.744	47.40	4.44	27.75	I	D	SP	Pdf
SES	104.899	32.77	4.44	27.75	I	D	SP	Pdf
SUR	105.234	238.73	1.89	11.43	I	D	SP	Pdf
FRI	105.650	48.07	1.89	11.43	I	D	SP	Pdf
MNA	106.195	46.19	1.89	11.43	I	D	SP	Pdf
ALQ	116.117	44.68	1.88	11.36	E	D	LP	Pdf
LHC	116.620	23.97	1.88	11.35	I	D	SP	PKP
EPT	117.729	47.73	1.88	11.34	E	D	LP	PKP
TUL	122.516	37.81	1.87	11.30	E	D	LP	PKP
BLA	129.520	25.09	1.85	11.18	E	D	LP	PKP
SHA	130.733	36.93	1.84	11.15	I	D	LP	PKP
SJS	146.987	57.54	1.62	9.78	I	D	SP	PKP
LCR	147.136	57.80	1.62	9.76	I	D	SP	PKP
UPA	151.223	54.25	1.50	9.04	I	D	SP	PKP
PEL	151.762	153.74	1.48	8.92	I	D	LP	PKP
SJG	152.138	20.51	1.47	8.84	I	D	LP	PKP
SJG	152.138	20.51	1.47	8.84	I	D	SP	PKP
LPA	153.323	176.90	1.42	8.59	I	D	LP	PKP
SEG	155.061	12.06	1.36	8.18	I	D	SP	PKP
VCA	156.620	152.69	1.29	7.79	I	D	SP	PKP
TOV	157.651	37.41	1.25	7.52	I	D	SP	PKP
UAV	157.692	42.08	1.25	7.51	I	D	SP	PKP
SDV	157.821	40.60	1.24	7.48	I	D	SP	PKP
CAR	158.634	30.05	1.20	7.25	I	D	SP	PKP
TRN	160.637	15.48	1.11	6.68	I	D	LP	PKP
RDJ	160.732	219.00	1.11	6.65	I	D	SP	PKP
LPB	165.735	126.86	0.84	5.08	I	D	LP	PKP
BAO	169.027	226.55	0.66	3.97	I	D	SP	PKP

Table 220. Station data for event 28.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	5.355	274.46	8.16	123.80	I	C	SP	P
BKB	9.030	298.69	9.66	100.64	I	C	SP	P
MTN	9.464	139.40	9.72	98.49	I	C	SP	P
TRT	12.282	259.82	9.81	87.14	I	C	SP	P
DAV	12.684	3.36	9.80	85.68	I	C	LP	P
KKM	14.461	323.37	9.68	80.10	I	C	SP	P
MBL	16.149	197.00	9.54	76.28	I	C	SP	P
WB2	16.949	147.74	9.48	74.80	I	C	SP	P
NAU	19.050	207.34	9.32	71.63	I	C	SP	P
ASPA	19.917	154.89	9.26	70.55	I	C	SP	P
WBN	20.430	175.50	9.22	69.85	I	C	SP	P
ISQ	20.689	137.67	9.20	69.50	I	C	SP	P
MEK	21.679	195.39	9.11	67.96	I	C	SP	P
BAG	22.326	349.20	9.03	66.86	I	C	LP	P
PMG	22.437	100.90	9.02	66.70	I	C	SP	P
KGM	22.798	288.95	8.99	66.18	I	C	SP	P
KLG	25.188	186.83	8.80	63.56	I	C	SP	P
CTAO	25.282	126.50	8.79	63.50	E	C	LP	P
ALOA	25.707	101.94	8.76	63.12	I	C	SP	P
IPM	25.857	292.69	8.75	62.93	I	C	SP	P
BAL	25.962	196.16	8.74	62.84	I	C	SP	P
KLB	26.632	193.55	8.70	62.32	I	C	SP	P
MUN	27.394	196.08	8.65	61.75	I	C	SP	P
GUMO	27.592	45.99	8.64	61.62	E	D	LP	P
NWAO	28.034	193.69	8.63	61.41	I	C	SP	P
NWAO	28.034	193.69	8.63	61.41	E	C	LP	P
RKG	29.180	193.40	8.56	60.58	I	C	SP	P
TATO	30.620	354.04	8.48	59.69	E	C	LP	P
GZH	30.694	338.94	8.48	59.64	I	C	SP	P
NNT	30.836	306.11	8.47	59.52	I	C	SP	P
QZH	31.015	348.96	8.46	59.42	I	C	SP	P
ADE	31.852	158.08	8.42	58.96	I	C	SP	P
NST	32.363	311.24	8.39	58.61	I	C	SP	P
KHT	33.003	308.27	8.35	58.19	I	C	SP	P
CHTO	35.244	314.22	8.24	56.95	I	C	SP	P
CHTO	35.244	314.22	8.24	56.95	I	C	LP	P
CHG	35.244	314.22	8.24	56.95	I	C	LP	P
BFD	35.294	155.13	8.23	56.90	I	C	SP	P
COO	35.517	137.52	8.22	56.77	I	C	SP	P
SSE	36.709	354.77	8.16	56.15	I	D	LP	P
TOO	36.925	152.18	8.15	56.08	I	C	SP	P
CAN	36.973	146.17	8.15	56.06	I	C	SP	P
RIV	37.173	142.34	8.14	55.94	E	C	LP	P
KMI	37.386	325.84	8.13	55.79	I	C	LP	P
WAM	37.555	147.25	8.12	55.70	I	C	SP	P
NJ2	37.927	351.73	8.10	55.56	I	D	SP	P
KOU	41.034	114.91	7.94	53.89	I	C	SP	P
CD2	41.572	332.24	7.91	53.58	I	C	SP	P
TAU	42.091	155.21	7.88	53.37	I	C	SP	P
XAN	42.251	340.21	7.87	53.27	I	D	SP	P

Table 220. Station data for event 28 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TIA	42.268	350.72	7.87	53.26	I	D	SP	P
SRY	43.233	17.26	7.82	52.70	I	D	SP	P
NOU	43.453	116.58	7.80	52.57	I	C	SP	P
DDR	43.572	16.97	7.79	52.49	I	D	SP	P
MAT	43.806	15.62	7.77	52.30	I	D	SP	P
TSK	44.042	17.85	7.76	52.13	I	D	SP	P
PVC	44.120	109.60	7.75	52.08	I	C	SP	P
DL2	44.434	356.43	7.73	51.92	I	D	SP	P
TIY	44.665	345.98	7.72	51.76	I	D	SP	P
LZH	45.954	336.19	7.61	50.78	I	D	SP	P
BJI	46.163	350.78	7.60	50.65	I	D	LP	P
SNY	47.267	358.73	7.52	49.91	I	D	SP	P
CN2	49.229	0.59	7.37	48.61	I	D	SP	P
MDJ	50.224	4.42	7.30	48.01	I	D	SP	P
PKI	50.404	312.98	7.29	47.87	I	C	SP	P
KKN	50.622	313.13	7.27	47.72	I	C	SP	P
DMN	50.646	312.82	7.27	47.70	I	C	SP	P
HYB	51.129	297.60	7.23	47.38	I	C	SP	P
VUN	53.724	108.10	7.05	45.89	I	D	SP	P
POO	55.700	296.83	6.91	44.72	I	D	SP	P
NDI	57.132	309.40	6.81	43.87	I	D	SP	P
WMQ	59.554	329.54	6.62	42.40	I	D	SP	P
KSH	63.575	319.38	6.31	39.98	I	D	SP	P
MHI	73.874	310.16	5.60	34.73	I	D	LP	P
AVY	76.002	251.99	5.47	33.83	I	D	SP	P
SHI	77.577	301.87	5.33	32.87	I	D	SP	P
IR7	80.599	307.44	5.10	31.30	I	D	SP	P
SPA	84.378	180.00	4.84	29.50	I	D	SP	P
TAB	84.468	309.00	4.83	29.46	I	D	LP	P
NAI	87.913	268.93	4.70	28.58	I	D	SP	P
TET	89.648	253.91	4.67	28.41	I	D	SP	P
MTD	91.484	253.09	4.62	28.05	I	D	SP	P
KRI	93.352	252.82	4.55	27.62	I	D	SP	P
BPI	93.608	243.39	4.55	27.57	I	D	SP	P
GRM	93.793	236.16	4.54	27.55	I	D	SP	P
BUL	93.884	249.43	4.54	27.54	I	D	SP	P
COL	93.966	25.29	4.54	27.53	I	D	SP	P
PRY	93.995	242.58	4.54	27.52	I	D	SP	P
BLF	94.788	240.25	4.52	27.42	I	D	SP	P
SWZ	95.849	242.03	4.50	27.28	I	D	SP	P
KEV	97.990	339.62	4.45	26.93	E	D	LP	P
VRI	99.680	315.43	4.44	26.87	I	D	SP	P
DAG	106.252	351.81	1.89	11.09	I	D	SP	Pdf
BNG	106.604	272.93	1.89	11.09	I	D	SP	Pdf
WET	108.554	320.02	1.89	11.09	I	D	SP	PKP
KBA	108.703	317.82	1.89	11.09	I	D	SP	PKP
OGA	110.298	317.98	1.89	11.09	I	D	SP	PKP
GWF	111.934	320.82	1.89	11.07	I	D	SP	PKP
CDF	112.322	320.31	1.89	11.07	I	D	SP	PKP
BSF	112.806	319.82	1.88	11.06	I	D	SP	PKP

Table 220. Station data for event 28 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HAU	113.038	320.10	1.88	11.05	I	D	SP	PKP
EDM	113.192	33.77	1.88	11.05	I	D	SP	PKP
FRF	114.142	315.39	1.88	11.04	I	D	SP	PKP
SMF	115.091	319.29	1.88	11.03	I	D	SP	PKP
AVF	115.358	319.57	1.88	11.03	I	D	SP	PKP
GRC	115.362	320.17	1.88	11.03	I	D	SP	PKP
SES	115.636	36.00	1.88	11.02	I	D	SP	PKP
MZF	116.056	319.17	1.88	11.02	I	D	SP	PKP
LRM	116.501	41.11	1.88	11.01	I	D	SP	PKP
CAF	116.847	317.97	1.88	11.01	I	D	SP	PKP
RJF	117.077	318.52	1.88	11.01	I	D	SP	PKP
LPO	117.517	317.96	1.88	11.00	I	D	SP	PKP
LFF	117.721	318.36	1.88	11.00	I	D	SP	PKP
EPF	118.677	316.45	1.87	11.00	I	D	SP	PKP
FCC	119.156	22.02	1.87	10.99	I	D	SP	PKP
LGR	120.835	316.74	1.87	10.98	I	D	SP	PKP
BLA	141.044	32.80	1.74	10.21	I	D	SP	PKP
TLL	141.355	158.05	1.74	10.18	I	D	SP	PKP
VAO	150.411	195.44	1.53	8.94	I	D	SP	PKP
SJG	163.626	39.99	0.96	5.61	I	D	SP	PKP

Table 221. Station data for event 56.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MAP	5.357	332.65	14.04	83.96	I	C	SP	P
BAG	12.252	332.30	13.30	70.40	I	C	LP	P
GUMO	19.803	64.87	10.39	47.39	I	D	LP	P
GUA	19.825	65.06	10.39	47.39	E	D	LP	P
TATO	19.907	346.59	10.39	47.39	I	C	LP	P
QIZ	21.039	311.02	10.13	45.85	I	C	SP	P
SSE	25.900	349.56	9.36	41.53	I	C	LP	P
PCT	26.269	292.11	9.32	41.31	I	C	SP	P
NJ2	27.320	345.79	9.22	40.77	I	C	SP	P
NST	27.748	293.33	9.22	40.77	I	C	SP	P
NAU	29.903	200.68	8.89	39.03	I	C	SP	P
CHG	29.910	298.57	8.89	39.03	I	C	SP	P
WBN	31.486	179.83	8.78	38.45	I	C	SP	P
CTA	32.039	143.17	8.74	38.25	I	D	SP	P
MAJO	32.673	17.66	8.71	38.09	E	C	LP	P
XAN	32.699	332.37	8.71	38.09	I	C	SP	P
MRWA	35.993	195.70	8.49	36.97	I	C	SP	P
LZH	36.828	328.66	8.44	36.71	I	C	LP	P
BAL	37.134	194.03	8.44	36.71	I	C	SP	P
MUN	38.566	194.07	8.34	36.21	I	C	SP	P
NWAO	39.244	192.33	8.32	36.11	I	C	SP	P
RKG	40.394	192.17	8.23	35.66	I	D	SP	P
LSA	41.075	310.02	8.20	35.51	I	C	SP	P
GTA	41.427	328.30	8.18	35.41	I	C	SP	P
ADE	41.901	164.90	8.15	35.26	I	D	SP	P
YOU	44.679	153.94	8.01	34.57	I	D	SP	P
BFD	45.060	161.80	7.99	34.47	I	D	SP	P
CAN	45.830	154.11	7.93	34.17	I	D	SP	P
WMQ	51.110	324.37	7.57	32.42	I	C	SP	P
TAU	51.794	160.57	7.49	32.04	E	D	LP	P
NDI	51.935	302.26	7.49	32.04	I	C	SP	P
MHI	68.228	306.80	6.22	26.14	I	C	LP	P
IR5	75.307	304.81	5.67	23.68	I	C	SP	P
TAB	78.858	307.57	5.44	22.66	E	C	LP	P
COL	83.203	25.37	5.11	21.22	E	C	LP	P
PSN	92.190	314.07	4.67	19.32	I	C	SP	P
VRI	92.823	316.41	4.64	19.19	I	D	SP	P
ISR	93.086	315.71	4.64	19.19	I	D	SP	P
MLR	93.433	316.14	4.63	19.14	I	C	SP	P
JMB	93.560	313.08	4.63	19.14	I	D	SP	P
PVL	94.446	313.95	4.59	18.97	I	C	SP	P
KDZ	94.620	312.45	4.59	18.97	I	D	SP	P
DAG	95.457	352.42	4.56	18.84	E	C	LP	P
DAG	95.457	352.42	4.56	18.84	I	C	SP	P
MMB	95.821	312.65	4.55	18.80	I	D	SP	P
KRA	96.279	321.56	4.54	18.76	I	C	SP	P
KONO	98.394	332.75	4.49	18.54	E	C	LP	P
BRG	99.644	323.58	4.46	18.42	I	C	SP	P
MUD	100.008	329.94	4.45	18.37	I	D	SP	Pdf
CLL	100.036	324.22	4.45	18.37	I	C	SP	Pdf

Table 221. Station data for event 56 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KHC	100.496	322.02	4.45	18.37	I	C	SP	Pdf
PTO	118.007	322.83	1.88	7.64	E	D	LP	PKP
LND	125.537	24.73	1.86	7.59	I	D	SP	PKP
MNT	126.107	17.41	1.86	7.59	I	D	SP	PKP
PCH	147.909	152.67	1.62	6.57	I	D	SP	PKP
PEL	148.226	151.95	1.62	6.57	I	D	SP	PKP
FCH	148.256	152.67	1.62	6.57	I	D	SP	PKP
UPA	150.327	61.07	1.56	6.34	I	D	SP	PKP
CNCB	161.945	129.49	1.07	4.34	I	D	SP	PKP
BAO	168.595	208.00	0.68	2.76	I	D	SP	PKP

Table 222. Station data for event 60.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	9.548	226.58	13.77	53.92	I	C	SP	P
KKM	11.183	294.71	13.58	52.85	I	D	SP	P
BAG	15.999	339.25	12.78	48.60	I	D	LP	P
TNG	21.119	248.99	10.18	36.69	I	C	SP	P
GUA	21.925	55.71	9.95	35.73	I	C	LP	P
WB2	22.576	160.23	9.86	35.36	I	C	SP	P
PMG	23.270	117.84	9.68	34.62	I	C	SP	P
QIZ	23.902	318.23	9.61	34.34	I	D	SP	P
ISQ	25.449	150.33	9.42	33.57	I	C	SP	P
ASPA	25.938	164.16	9.38	33.41	I	C	SP	P
NAU	26.055	203.50	9.38	33.41	I	D	SP	P
RAB	26.322	102.25	9.33	33.20	E	C	LP	P
SNG	26.355	283.37	9.33	33.20	I	D	LP	P
MEK	28.848	194.73	9.04	32.05	I	D	SP	P
CTAO	28.870	138.66	9.04	32.05	I	C	LP	P
CTA	28.870	138.66	9.04	32.05	I	C	SP	P
CHG	32.021	304.49	8.75	30.90	I	D	SP	P
CHG	32.021	304.49	8.75	30.90	I	D	LP	P
KLK	32.331	188.00	8.72	30.79	I	C	SP	P
KMI	32.851	317.84	8.68	30.63	I	D	SP	P
BAL	33.126	195.44	8.68	30.63	I	D	SP	P
KLB	33.805	193.35	8.62	30.39	I	D	SP	P
HNR	35.080	108.51	8.56	30.16	I	C	LP	P
NWAO	35.207	193.47	8.56	30.16	I	C	LP	P
SEO	36.005	0.74	8.50	29.93	E	N	LP	P
STK	36.073	157.78	8.50	29.93	I	C	SP	P
RKG	36.354	193.23	8.47	29.81	I	D	SP	P
CD2	36.370	326.05	8.47	29.81	I	D	SP	P
MAJO	36.642	16.01	8.47	29.81	I	C	LP	P
CMS	37.523	152.22	8.41	29.58	I	C	SP	P
ADE	37.945	163.48	8.38	29.46	I	C	SP	P
LZH	40.373	331.31	8.24	28.92	I	D	SP	P
YOU	41.031	151.85	8.21	28.81	I	C	SP	P
CAN	42.175	152.12	8.16	28.62	I	C	SP	P
TOO	42.589	157.44	8.13	28.50	I	C	SP	P
WAM	42.839	152.96	8.10	28.39	I	C	SP	P
KOU	43.010	122.52	8.10	28.39	I	C	SP	P
PVC	45.414	116.67	7.97	27.89	I	C	SP	P
NOU	45.588	123.50	7.97	27.89	I	C	SP	P
TAU	47.937	159.32	7.82	27.32	E	C	LP	P
TCW	60.635	140.06	6.84	23.67	I	C	SP	P
SNZO	60.961	139.96	6.80	23.52	I	C	LP	P
AFI	63.066	106.27	6.64	22.94	I	C	LP	P
MHI	70.690	308.04	6.03	20.73	I	D	LP	P
HON	76.060	68.50	5.65	19.37	E	C	LP	P
IR2	77.440	306.12	5.55	19.01	I	D	SP	P
MAW	81.459	200.30	5.22	17.84	I	C	SP	P
COL	86.961	25.22	4.83	16.47	I	C	LP	P
KEV	91.973	339.90	4.67	15.91	E	C	LP	P
KBS	93.249	349.84	4.64	15.80	I	D	SP	P

Table 222. Station data for event 60 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BUL	97.804	249.98	4.51	15.35	I	C	SP	P
SLR	97.931	244.36	4.51	15.35	E	C	LP	P
MMB	98.563	312.26	4.49	15.28	I	D	SP	P
DAG	99.540	352.34	4.47	15.21	E	C	LP	P
DAG	99.540	352.34	4.47	15.21	I	C	SP	P
COP	102.147	328.04	4.45	15.14	E	D	LP	Pdf
KMR	103.686	320.29	4.45	15.14	E	D	LP	Pdf
PTO	121.228	321.36	1.87	6.31	E	C	LP	PKP
WES	133.583	18.16	1.83	6.16	E	C	LP	PKP
SHA	134.189	42.96	1.83	6.16	E	C	LP	PKP
BLA	134.247	30.21	1.83	6.16	E	C	LP	PKP
LPA	146.405	173.53	1.66	5.60	I	C	LP	PKP

Table 223. Station data for event 62.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TNE	4.896	79.64	12.34	104.54	I	C	SP	P
MKS	5.936	210.79	12.59	98.98	I	C	SP	P
DAV	7.750	23.11	12.74	91.20	I	C	LP	P
WSI	9.771	193.00	12.70	85.20	I	C	SP	P
TRT	12.422	232.25	12.48	78.28	I	C	SP	P
MTN	15.285	146.35	12.08	71.43	I	D	SP	P
BAG	16.500	353.44	10.99	59.55	I	C	LP	P
MBL	21.105	186.97	9.74	49.84	I	D	SP	P
WB2	22.886	150.25	9.49	48.15	I	D	SP	P
SNG	23.004	288.73	9.48	48.06	I	C	LP	P
NAU	23.342	196.56	9.44	47.82	I	D	SP	P
GZH	24.698	339.43	9.33	47.06	I	C	SP	P
GUMO	25.975	57.59	9.21	46.28	E	D	LP	P
GUA	25.989	57.74	9.21	46.27	I	D	LP	P
WBN	26.193	171.71	9.19	46.13	I	D	SP	P
MRWA	29.627	191.59	8.81	43.70	I	D	SP	P
CHG	29.805	310.35	8.79	43.61	I	C	LP	P
RAB	29.905	98.22	8.78	43.57	I	D	LP	P
CTAO	30.581	131.95	8.74	43.29	I	D	LP	P
CTA	30.581	131.95	8.74	43.29	I	D	LP	P
SSE	31.032	357.79	8.70	43.07	I	C	LP	P
KMI	31.524	324.08	8.67	42.88	I	C	LP	P
KLB	31.653	187.75	8.66	42.83	I	D	SP	P
NWAO	33.039	188.17	8.58	42.33	E	D	LP	P
PAA	33.480	101.26	8.55	42.16	I	D	SP	P
RKG	34.194	188.15	8.51	41.90	I	D	SP	P
CD2	35.599	331.65	8.44	41.46	I	C	SP	P
XAN	36.260	340.73	8.39	41.17	I	C	SP	P
STK	36.405	152.07	8.38	41.12	I	D	SP	P
SEO	37.686	5.79	8.31	40.71	E	N	LP	P
ADE	37.851	158.08	8.30	40.65	I	D	SP	P
CMS	38.243	146.89	8.28	40.51	I	D	SP	P
HNR	38.395	105.08	8.27	40.46	I	D	LP	P
MAJO	39.242	20.14	8.22	40.19	I	N	LP	P
BFD	41.290	155.51	8.12	39.56	I	D	SP	P
YOU	41.755	147.15	8.09	39.39	I	D	SP	P
CAN	42.874	147.59	8.03	39.06	I	D	SP	P
TOO	42.903	152.90	8.03	39.05	I	D	SP	P
RIV	42.993	144.19	8.02	39.02	I	D	SP	P
WAM	43.474	148.52	7.99	38.85	I	D	SP	P
GTA	44.456	334.73	7.95	38.57	I	C	SP	P
PKI	44.985	310.74	7.91	38.39	I	C	SP	P
KKN	45.197	310.92	7.90	38.32	I	C	SP	P
DMN	45.235	310.59	7.90	38.30	I	C	SP	P
TAU	48.087	155.53	7.71	37.21	I	D	LP	P
NOU	48.129	120.36	7.70	37.19	I	D	SP	P
PVC	48.322	113.83	7.69	37.11	I	D	SP	P
POO	51.234	293.97	7.45	35.80	I	C	SP	P
NDI	51.878	307.45	7.40	35.51	I	C	SP	P
KSH	57.882	318.43	6.95	33.06	I	C	SP	P

Table 223. Station data for event 62 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SNZO	62.427	137.82	6.60	31.19	E	D	LP	P
AFI	66.430	105.07	6.27	29.47	I	D	LP	P
AFI	66.430	105.07	6.27	29.47	I	D	SP	P
DRV	67.582	172.56	6.18	28.99	I	D	SP	P
MHI	68.555	309.33	6.10	28.59	I	C	LP	P
AVY	75.587	250.59	5.62	26.15	I	D	SP	P
MAW	78.752	199.71	5.41	25.10	I	D	LP	P
ARO	79.895	281.65	5.28	24.49	E	C	LP	P
BHD	80.125	303.67	5.26	24.39	I	C	SP	P
HON	80.225	68.47	5.25	24.35	E	D	LP	P
NAI	85.712	268.74	4.86	22.44	I	D	SP	P
SPA	89.915	180.00	4.70	21.65	I	D	SP	P
COL	89.945	25.25	4.70	21.64	I	D	LP	P
KEV	91.996	339.71	4.65	21.40	E	N	LP	P
PSN	93.201	313.56	4.61	21.23	I	D	SP	P
BUL	93.638	249.94	4.61	21.19	I	D	SP	P
SLR	93.782	244.35	4.60	21.15	I	D	LP	P
JMB	94.445	312.42	4.57	21.02	I	D	SP	P
KRA	98.135	320.54	4.49	20.61	I	C	SP	P
KSP	100.271	321.78	4.44	20.39	I	C	SP	Pdf
DAG	100.440	351.58	4.44	20.39	I	D	SP	Pdf
COP	101.288	327.15	4.44	20.39	E	C	LP	Pdf
KMR	102.282	319.34	4.44	20.39	E	C	LP	Pdf
WET	102.816	320.63	4.44	20.39	I	D	SP	Pdf
BNG	103.935	274.52	4.44	20.39	I	C	SP	Pdf
OGA	104.625	318.71	4.44	20.39	I	D	SP	Pdf
COR	107.083	43.00	1.89	8.53	I	D	SP	Pdf
EDM	109.793	31.94	1.89	8.53	I	C	SP	PKP
BLA	137.407	27.37	1.80	8.10	I	D	LP	PKP
TLL	147.353	158.29	1.63	7.33	I	D	SP	PKP
CYA	150.540	165.00	1.54	6.93	I	D	SP	PKP
UPA	156.329	67.49	1.33	5.97	E	D	LP	PKP
SJG	160.166	24.99	1.15	5.19	I	D	SP	PKP
SJG	160.166	24.99	1.15	5.19	I	D	LP	PKP
LPB	160.450	148.13	1.14	5.13	I	D	LP	PKP

Table 224. Station data for event 69.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KUPT	2.754	139.23	11.59	117.27	I	C	SP	P
KUG	2.753	139.65	11.59	117.28	I	C	SP	P
MKS	3.634	320.73	12.33	108.90	I	C	SP	P
MTN	10.354	118.15	12.89	81.33	I	C	SP	P
MBL	13.161	188.00	12.58	74.70	I	D	SP	P
KKM	15.064	338.22	12.31	70.72	I	D	SP	P
DAV	15.510	14.22	12.23	69.78	I	D	LP	P
WB2	16.968	135.43	10.80	55.94	I	C	SP	P
MEK	18.707	189.06	10.31	52.24	I	C	SP	P
PLP	19.355	9.51	10.15	51.13	I	D	SP	P
ASPA	19.389	144.55	10.14	51.07	I	C	SP	P
TZZ	19.507	83.05	10.12	50.89	I	D	SP	P
ISQ	21.294	128.10	9.78	48.61	I	C	SP	P
MRWA	21.740	193.76	9.71	48.14	I	C	SP	P
BAL	22.929	191.28	9.54	47.02	I	C	SP	P
KLB	23.713	188.55	9.45	46.43	I	C	SP	P
IPM	24.209	300.53	9.40	46.15	I	C	SP	P
BAG	24.334	357.21	9.39	46.09	I	D	LP	P
MUN	24.358	191.54	9.39	46.08	E	C	LP	P
NWAO	25.101	189.04	9.33	45.69	I	C	SP	P
PMG	25.115	94.96	9.33	45.69	I	D	LP	P
SNG	25.964	305.09	9.24	45.15	I	C	LP	P
SNG	25.964	305.09	9.24	45.15	I	C	SP	P
CTA	26.536	119.35	9.19	44.79	I	D	LP	P
STK	30.029	144.81	8.80	42.44	I	C	SP	P
GUA	31.427	47.12	8.70	41.89	E	D	LP	P
GUMO	31.427	46.99	8.70	41.89	E	D	LP	P
RMQ	31.494	128.90	8.70	41.86	I	C	SP	P
NST	31.865	317.69	8.67	41.68	I	C	SP	P
KHT	32.302	314.54	8.64	41.51	I	C	SP	P
CMS	32.334	139.39	8.64	41.50	I	C	SP	P
TATO	32.827	359.51	8.61	41.33	I	D	LP	P
BDT	33.744	318.24	8.55	41.01	I	C	SP	P
CHG	34.926	320.05	8.49	40.65	E	C	LP	P
YOU	35.780	140.64	8.44	40.36	I	C	SP	P
COO	35.977	132.56	8.43	40.29	I	C	SP	P
TOO	36.393	147.41	8.41	40.15	I	C	SP	P
CAN	36.844	141.40	8.38	39.99	I	C	SP	P
RIV	37.300	137.63	8.35	39.84	I	D	SP	P
WAM	37.350	142.59	8.35	39.82	I	C	SP	P
HNR	37.738	94.99	8.33	39.69	I	D	LP	P
SSE	38.926	359.19	8.26	39.33	E	D	LP	P
NJ2	39.973	356.13	8.20	38.98	I	D	SP	P
TAU	41.329	151.33	8.13	38.58	E	D	LP	P
CD2	42.416	336.78	8.07	38.26	I	D	SP	P
SHK	43.589	13.09	8.01	37.88	I	D	LP	P
XAN	43.599	344.46	8.00	37.88	I	D	SP	P
NOU	45.196	113.42	7.92	37.40	I	D	SP	P
SEO	45.636	5.77	7.89	37.25	I	D	LP	P
PVC	46.258	106.78	7.85	37.04	I	D	SP	P

Table 224. Station data for event 69 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TIY	46.354	349.75	7.85	37.01	I	D	SP	P
MAT	46.963	18.16	7.81	36.81	I	D	LP	P
MAJO	46.963	18.16	7.81	36.81	I	D	LP	P
LZH	47.033	340.07	7.81	36.79	I	D	SP	P
BTO	49.606	348.24	7.61	35.72	I	D	SP	P
PKI	49.926	316.53	7.59	35.58	I	C	SP	P
KKN	50.153	316.65	7.57	35.48	I	C	SP	P
DMN	50.157	316.35	7.57	35.48	I	C	SP	P
GTA	51.426	338.24	7.47	34.93	I	D	SP	P
CN2	51.712	3.38	7.44	34.81	I	D	SP	P
SNZO	57.228	134.37	7.02	32.59	E	D	LP	P
AMP	62.749	314.87	6.59	30.36	E	C	LP	P
SPA	81.999	180.00	5.14	23.22	I	C	SP	P
HON	83.878	67.53	5.02	22.64	I	D	LP	P
TET	86.082	254.33	4.85	21.85	I	C	SP	P
BUL	90.214	249.75	4.70	21.11	I	C	SP	P
EDM	116.852	33.57	1.88	8.28	I	D	SP	PKP
JCT	135.214	54.43	1.82	8.01	E	D	LP	PKP
BLA	144.671	31.45	1.69	7.43	I	D	LP	PKP
LPB	153.691	158.21	1.43	6.30	I	D	SP	PKP

Table 225. Station data for event 78.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	4.611	8.49	14.16	83.04	I	D	SP	P
BKB	8.697	347.53	13.86	76.31	I	D	SP	P
WB2	18.089	125.61	12.37	60.13	I	D	SP	P
ASPA	19.955	135.53	10.44	47.04	I	D	SP	P
MAP	20.653	14.63	10.30	46.22	I	C	SP	P
ISQ	22.749	120.87	9.85	43.67	I	D	SP	P
SNG	24.743	312.33	9.53	41.92	I	C	LP	P
BAG	26.107	3.91	9.38	41.11	I	C	LP	P
PMG	27.969	91.60	9.18	40.05	I	C	LP	P
CTA	28.392	114.25	9.11	39.69	I	D	LP	P
CTAO	28.392	114.25	9.11	39.69	E	N	LP	P
RAB	33.583	82.79	8.65	37.33	E	C	LP	P
CHG	34.521	325.43	8.59	37.02	I	C	SP	P
CHTO	34.521	325.43	8.59	37.02	I	C	LP	P
CHG	34.521	325.43	8.59	37.02	I	C	LP	P
TATO	34.667	4.31	8.59	37.02	I	C	LP	P
GUMO	34.787	48.53	8.56	36.87	I	C	LP	P
ANP	34.876	4.33	8.56	36.87	I	C	LP	P
TAU	41.323	147.89	8.18	34.99	I	D	LP	P
SHK	46.017	15.99	7.93	33.77	I	C	LP	P
NOU	47.269	111.26	7.85	33.39	I	C	SP	P
LZH	47.767	343.61	7.81	33.19	I	C	LP	P
MAT	49.587	20.59	7.70	32.67	I	C	SP	P
MAJO	49.587	20.59	7.70	32.67	I	C	LP	P
POO	52.519	302.38	7.46	31.53	I	C	SP	P
NDI	55.452	314.94	7.22	30.41	I	C	SP	P
SNZO	58.171	132.74	7.03	29.53	I	C	LP	P
QUE	63.727	310.60	6.60	27.56	I	C	LP	P
IR7	78.469	309.54	5.48	22.59	I	C	SP	P
SLR	86.260	244.67	4.86	19.92	I	C	SP	P
KRI	86.427	253.64	4.86	19.92	I	C	SP	P
BUL	86.841	250.22	4.83	19.79	I	C	SP	P
VIR	87.134	242.16	4.83	19.79	I	C	SP	P
BFS	87.398	243.31	4.80	19.66	I	C	SP	P
ANTO	93.155	309.74	4.64	18.98	I	C	LP	P
IST	96.198	310.46	4.55	18.60	I	C	LP	P
KEV	99.747	339.32	4.47	18.26	I	C	LP	P
COL	100.261	25.64	4.45	18.18	E	C	LP	Pdf
COP	107.256	325.31	1.89	7.61	E	C	LP	Pdf
DMU	118.475	326.85	1.88	7.56	I	C	SP	PKP
BLA	147.670	29.42	1.62	6.50	I	C	LP	PKP
UPA	161.905	91.08	1.07	4.30	E	C	LP	PKP

Table 226. Station data for event 82.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	5.614	358.60	13.91	85.05	E	C	LP	P
AAI	5.661	154.02	13.91	84.93	I	D	SP	P
MKS	9.087	223.29	13.63	77.45	I	D	SP	P
BAG	15.713	341.51	12.68	65.26	I	C	LP	P
WB2	22.873	158.68	9.72	44.12	I	D	SP	P
IPM	24.847	277.76	9.45	42.58	I	C	SP	P
SNG	25.656	283.58	9.37	42.18	E	C	LP	P
ASPA	26.189	162.79	9.32	41.90	I	D	SP	P
CTA	29.380	137.76	8.94	39.84	I	D	SP	P
CTAO	29.380	137.76	8.94	39.84	I	D	SP	P
CHG	31.411	305.05	8.77	38.90	E	C	LP	P
CHG	31.411	305.05	8.77	38.90	I	C	SP	P
MRWA	31.865	196.23	8.74	38.75	I	D	SP	P
SHK	33.557	10.43	8.63	38.16	I	C	SP	P
NWAO	35.100	192.46	8.53	37.68	I	C	SP	P
RKG	36.250	192.26	8.46	37.32	I	D	SP	P
STK	36.393	156.90	8.46	37.28	I	D	SP	P
MAT	36.791	16.92	8.44	37.20	I	C	SP	P
LZH	39.992	332.00	8.25	36.22	I	C	SP	P
YOU	41.414	151.15	8.17	35.84	I	D	SP	P
CAN	42.555	151.44	8.11	35.50	I	D	SP	P
TOO	42.912	156.74	8.09	35.43	I	D	SP	P
WAM	43.210	152.30	8.08	35.36	I	D	SP	P
PKI	46.507	307.67	7.89	34.41	I	C	SP	P
KKN	46.708	307.87	7.88	34.35	I	C	SP	P
DMN	46.764	307.55	7.87	34.33	I	C	SP	P
NDI	53.560	305.12	7.35	31.79	I	C	SP	P
POO	53.586	291.98	7.35	31.78	I	C	SP	P
MHI	70.102	308.17	6.04	25.65	I	C	LP	P
AVY	79.104	250.54	5.43	22.90	I	C	SP	P
TAB	80.756	308.18	5.27	22.18	E	C	LP	P
MAW	81.264	200.18	5.22	21.97	I	C	SP	P
ARO	82.726	281.36	5.12	21.51	I	C	LP	P
FBAS	87.597	25.38	4.79	20.05	I	C	SP	P
OBN	88.322	324.97	4.75	19.89	I	C	SP	P
SPA	91.427	180.00	4.68	19.59	I	C	SP	P
KEV	91.681	339.86	4.68	19.57	E	C	LP	P
ELL	93.806	306.78	4.62	19.32	I	C	SP	P
MTD	94.365	253.39	4.60	19.22	I	C	SP	P
VRI	95.239	316.13	4.56	19.08	I	C	SP	P
KDZ	96.795	312.05	4.53	18.94	I	C	SP	P
BUL	97.159	250.00	4.53	18.92	I	C	SP	P
MMB	98.005	312.18	4.50	18.80	I	C	SP	P
VTS	98.230	313.25	4.49	18.78	I	C	SP	P
JOS	98.944	319.46	4.48	18.72	I	C	SP	P
DAG	99.393	352.20	4.46	18.65	I	C	SP	P
PSZ	99.491	318.99	4.46	18.63	I	C	SP	P
KSP	101.040	322.46	4.45	18.59	I	C	SP	Pdf
BRG	102.453	322.94	4.45	18.59	I	C	SP	Pdf
CLL	102.878	323.56	4.45	18.59	I	C	SP	Pdf

Table 226. Station data for event 82 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KHC	103.218	321.31	4.45	18.59	I	C	SP	Pdf
RSO	118.052	27.13	1.88	7.72	I	C	SP	PKP
SOB1	164.601	239.45	0.93	3.82	I	C	SP	PKP

Table 227. Station data for event 84.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	5.474	352.53	14.04	84.19	E	D	LP	P
PPR	11.049	317.42	13.51	73.20	I	D	SP	P
BAG	15.732	339.37	12.81	65.19	E	D	LP	P
CVP	16.571	344.90	12.62	63.41	I	D	SP	P
SZP	16.834	340.43	12.52	62.52	I	D	SP	P
PMG	23.494	118.18	9.66	43.20	I	C	LP	P
IPM	25.396	277.22	9.41	41.82	I	D	SP	P
ASPA	26.202	164.04	9.36	41.55	I	C	SP	P
NAU	26.222	203.06	9.36	41.55	I	C	SP	P
CTAO	29.133	138.76	9.02	39.73	E	C	LP	P
CTAO	29.133	138.76	9.02	39.73	I	C	SP	P
SSE	29.705	351.14	8.95	39.36	I	D	LP	P
CHG	31.781	304.29	8.74	38.27	E	D	LP	P
CHTO	31.781	304.29	8.74	38.27	I	D	LP	P
KMI	32.589	317.74	8.71	38.11	I	D	LP	P
SHK	33.275	9.64	8.64	37.75	E	D	LP	P
BAL	33.322	195.15	8.64	37.75	I	C	SP	P
NWAO	35.409	193.21	8.52	37.14	I	C	LP	P
MAJO	36.449	16.26	8.46	36.83	I	D	LP	P
ADE	38.209	163.41	8.37	36.38	I	C	SP	P
YOU	41.301	151.85	8.18	35.42	I	C	SP	P
CAN	42.445	152.11	8.12	35.13	I	C	SP	P
WAM	43.108	152.95	8.10	35.03	I	C	SP	P
TAU	48.204	159.29	7.81	33.60	I	C	LP	P
SNZO	61.225	139.99	6.79	28.76	I	C	LP	P
MAW	81.637	200.27	5.21	21.66	I	C	SP	P
SBA	82.321	172.03	5.14	21.36	I	C	SP	P
BHD	82.341	303.19	5.14	21.36	I	C	SP	P
COL	86.800	25.23	4.82	19.97	I	C	LP	P
FBAS	87.182	25.37	4.82	19.97	I	D	SP	P
OBN	88.503	324.97	4.75	19.67	I	C	LP	P
KEV	91.706	339.90	4.68	19.37	I	C	LP	P
IST	94.452	311.19	4.59	18.98	E	D	LP	P
PVL	97.004	313.65	4.53	18.72	I	D	SP	P
MMB	98.309	312.27	4.49	18.55	I	D	SP	P
VTS	98.524	313.34	4.49	18.55	I	D	SP	P
COP	101.878	328.04	4.45	18.38	E	C	LP	Pdf
BLA	134.106	29.99	1.83	7.45	E	C	LP	PKP
LPA	146.655	173.68	1.64	6.67	I	C	LP	PKP
RDJ	156.534	204.93	1.30	5.30	I	C	LP	PKP

Table 228. Station data for event 85.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	1.348	1.34	10.01	131.62	I	D	LP	P
BAG	11.674	335.77	12.99	75.97	I	C	LP	P
CVP	12.442	343.31	12.89	74.43	I	C	SP	P
PIP	13.407	339.41	12.75	72.30	I	C	SP	P
TRT	18.543	224.12	10.49	51.61	I	D	SP	P
ANP	19.721	349.13	10.20	49.62	I	C	LP	P
NAH	20.471	5.50	10.02	48.46	I	C	SP	P
KMJ	20.523	3.23	10.01	48.40	I	C	SP	P
NGO	20.874	6.12	9.95	48.01	I	C	SP	P
SNG	24.809	274.68	9.39	44.57	I	D	LP	P
SSE	25.559	351.31	9.32	44.14	I	C	LP	P
PMG	26.267	124.80	9.26	43.78	I	C	LP	P
WB2	26.942	161.46	9.19	43.39	I	D	SP	P
CHG	29.002	298.98	8.92	41.78	E	N	LP	P
CHTO	29.002	298.98	8.92	41.78	E	D	LP	P
SHK	29.407	12.05	8.88	41.54	I	C	LP	P
NAU	29.766	198.95	8.85	41.38	I	D	SP	P
ASPA	30.332	164.70	8.80	41.11	I	D	SP	P
WBN	31.692	178.23	8.71	40.57	I	D	SP	P
PAA	32.193	111.34	8.68	40.41	I	C	SP	P
CTA	32.755	142.09	8.64	40.22	I	D	LP	P
CTAO	32.755	142.09	8.64	40.22	I	D	LP	P
MAT	32.786	19.03	8.64	40.21	I	C	SP	P
MEK	32.854	191.60	8.64	40.19	I	D	SP	P
TSK	33.149	21.84	8.62	40.09	I	C	SP	P
ISN	35.548	21.53	8.48	39.29	I	C	SP	P
MRWA	35.935	194.30	8.45	39.16	I	D	SP	P
BAL	37.103	192.68	8.38	38.77	I	D	SP	P
HNR	37.448	113.53	8.36	38.66	I	C	LP	P
KLB	37.845	190.86	8.34	38.53	I	D	SP	P
MUN	38.535	192.78	8.30	38.31	I	D	SP	P
NWAO	39.241	191.08	8.27	38.14	I	D	SP	P
SAP	39.706	18.19	8.24	37.98	I	C	SP	P
RKG	40.393	190.96	8.19	37.75	I	D	SP	P
RMJ	40.606	17.91	8.18	37.69	I	C	SP	P
ADE	42.334	163.87	8.10	37.22	I	D	SP	P
YOU	45.265	153.10	7.93	36.35	I	D	SP	P
BFD	45.537	160.90	7.92	36.26	I	C	SP	P
KOU	46.155	125.60	7.88	36.06	I	C	SP	P
CAN	46.413	153.29	7.86	35.98	I	D	SP	P
TOO	46.917	158.21	7.83	35.82	I	D	SP	P
NOU	48.776	126.27	7.70	35.10	I	C	SP	P
NDI	51.047	302.44	7.52	34.16	I	D	SP	P
TAU	52.288	159.84	7.42	33.64	E	D	LP	P
NDF	56.292	115.63	7.11	32.10	I	C	SP	P
QUE	60.092	301.51	6.82	30.64	I	C	LP	P
SNZO	64.848	140.97	6.44	28.76	E	D	LP	P
AFI	65.178	108.09	6.41	28.64	E	C	LP	P
ADK	65.998	35.03	6.34	28.26	I	C	SP	P
MHI	67.369	306.88	6.23	27.74	I	C	LP	P

Table 228. Station data for event 85 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HON	75.330	69.55	5.66	25.02	E	C	LP	P
TAB	78.004	307.56	5.49	24.21	E	C	LP	P
TTA	79.666	27.11	5.35	23.56	I	C	SP	P
BRW	80.665	18.63	5.25	23.07	I	C	SP	P
IMA	81.048	24.06	5.21	22.93	I	C	SP	P
ARO	81.739	280.79	5.16	22.69	I	D	SP	P
COL	83.431	25.38	5.06	22.23	E	C	LP	P
FBAS	83.818	25.52	5.04	22.13	I	C	SP	P
OBN	84.735	324.82	4.97	21.82	I	C	LP	P
KEV	87.619	339.84	4.77	20.89	E	C	LP	P
NAI	88.871	268.62	4.72	20.66	I	D	SP	P
HLW	90.814	299.95	4.69	20.53	I	D	LP	P
IST	91.201	311.27	4.68	20.48	E	C	LP	P
PVL	93.643	313.83	4.61	20.17	I	C	SP	P
MMB	95.007	312.51	4.57	19.96	I	C	SP	P
DAG	95.145	352.25	4.56	19.94	I	C	SP	P
JOS	95.585	319.79	4.55	19.86	I	C	SP	P
KONO	97.798	332.55	4.51	19.67	E	C	LP	P
YKC	98.234	23.99	4.49	19.61	I	C	SP	P
BRG	98.938	323.39	4.47	19.51	I	C	SP	P
KHC	99.772	321.82	4.45	19.42	I	C	SP	P
KBA	100.636	319.92	4.44	19.37	I	C	SP	Pdf
BNG	106.403	276.30	1.89	8.12	I	D	SP	Pdf
TUL	123.276	39.89	1.87	8.02	I	C	SP	PKP
GBO	123.699	39.58	1.87	8.02	I	C	SP	PKP
BHO	124.816	40.77	1.87	8.02	I	C	SP	PKP
KIC	128.945	282.87	1.86	7.97	I	D	SP	PKP
BLA	130.888	27.54	1.85	7.93	E	C	LP	PKP
LPA	150.791	174.14	1.53	6.57	I	D	LP	PKP
UPA	151.044	59.87	1.52	6.54	E	C	LP	PKP
RDJ	159.786	211.33	1.17	5.03	I	D	LP	PKP
BAO	168.290	212.32	0.72	3.08	I	D	SP	PKP

Table 229. Station data for event 95.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	1.960	13.20	10.21	128.38	I	D	LP	P
CGP	3.294	352.58	12.09	111.89	I	C	SP	P
MNI	3.709	184.40	12.36	108.38	I	C	SP	P
MAP	5.245	347.60	12.87	98.82	I	C	SP	P
PGP	9.246	333.87	12.96	84.26	I	C	SP	P
MKS	11.758	208.78	12.75	78.03	I	C	SP	P
BAG	12.029	338.60	12.72	77.44	E	C	LP	P
PIP	13.797	341.77	12.49	73.48	I	C	SP	P
TRT	17.851	224.36	10.51	53.79	I	D	SP	P
TZZ	19.126	122.57	10.20	51.55	I	C	SP	P
ANP	20.198	350.50	9.98	49.97	I	D	LP	P
QIZ	20.295	314.04	9.96	49.83	I	D	SP	P
GZH	21.134	328.57	9.80	48.81	I	D	SP	P
GUA	21.206	65.54	9.79	48.73	I	C	LP	P
KGM	21.983	262.60	9.67	47.91	I	D	SP	P
PPI	25.320	257.97	9.31	45.58	I	D	SP	P
NNT	26.129	288.10	9.23	45.08	I	D	SP	P
WB2	26.549	160.27	9.18	44.81	I	D	SP	P
MBL	26.669	191.06	9.17	44.74	I	D	SP	P
CBI	27.198	34.90	9.11	44.34	I	C	SP	P
KHT	27.790	292.06	9.01	43.77	I	D	SP	P
BDT	28.245	297.25	8.96	43.44	I	D	SP	P
CHTO	28.916	300.19	8.88	42.94	I	D	LP	P
NAU	29.101	198.53	8.86	42.85	I	D	SP	P
KMI	29.236	315.02	8.85	42.79	I	D	LP	P
ASPA	29.906	163.70	8.81	42.52	I	D	SP	P
SEO	32.288	2.74	8.64	41.55	I	C	LP	P
SEO	32.288	2.74	8.64	41.55	I	D	SP	P
PAA	32.384	110.24	8.64	41.51	I	C	SP	P
XAN	32.426	334.40	8.63	41.50	I	D	SP	P
CTAO	32.576	141.00	8.62	41.45	I	D	LP	P
MAJO	33.452	19.32	8.57	41.14	E	C	LP	P
MAT	33.452	19.32	8.57	41.14	I	C	SP	P
DL2	33.731	355.08	8.56	41.04	I	D	SP	P
TIY	34.399	342.04	8.51	40.80	I	D	SP	P
AIK	34.813	18.30	8.50	40.71	I	C	SP	P
MRWA	35.290	193.89	8.47	40.56	I	D	SP	P
BJI	35.640	348.17	8.45	40.44	E	D	LP	P
KLK	35.913	185.38	8.43	40.34	I	D	SP	P
LZH	36.462	330.35	8.40	40.15	I	D	SP	P
BAL	36.466	192.26	8.40	40.15	I	D	SP	P
SNY	36.526	358.06	8.40	40.13	I	D	SP	P
KLB	37.217	190.42	8.36	39.89	I	D	SP	P
HHC	37.550	343.03	8.34	39.78	I	D	SP	P
HNR	37.612	112.60	8.33	39.76	I	C	LP	P
MUN	37.897	192.38	8.32	39.66	I	D	SP	P
CN2	38.473	0.38	8.28	39.46	I	D	SP	P
NWAO	38.612	190.66	8.27	39.42	I	D	SP	P
MDJ	39.482	5.02	8.23	39.17	I	D	SP	P
RKG	39.765	190.55	8.21	39.08	I	D	SP	P

Table 229. Station data for event 95 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
GTA	41.050	329.71	8.15	38.70	I	D	SP	P
CMS	41.453	152.85	8.12	38.56	I	D	SP	P
ADE	41.915	163.21	8.09	38.40	I	D	SP	P
PKI	43.837	305.02	8.00	37.86	I	D	SP	P
KKN	44.028	305.24	7.99	37.81	I	D	SP	P
DMN	44.099	304.91	7.98	37.79	I	D	SP	P
BFD	45.148	160.29	7.92	37.44	I	D	SP	P
RIV	45.937	149.44	7.87	37.18	I	D	SP	P
CAN	46.104	152.66	7.86	37.12	I	D	SP	P
TOO	46.555	157.61	7.84	36.97	I	D	SP	P
WAM	46.775	153.43	7.82	36.90	I	D	SP	P
HYB	47.132	288.91	7.80	36.78	I	D	SP	P
PVC	48.316	119.15	7.70	36.25	I	D	SP	P
NOU	48.785	125.62	7.66	36.04	I	D	SP	P
WMQ	50.636	325.31	7.53	35.29	I	D	SP	P
NDI	50.998	302.96	7.50	35.14	I	D	SP	P
POO	51.725	289.46	7.44	34.83	I	D	SP	P
TAU	51.909	159.35	7.43	34.75	I	D	LP	P
BOM	52.746	289.74	7.36	34.39	I	D	SP	P
SAM	62.437	312.32	6.61	30.51	I	D	SP	P
MSZ	62.685	146.93	6.59	30.41	I	D	SP	P
SNZO	64.677	140.61	6.44	29.60	E	D	LP	P
WEL	64.705	140.56	6.43	29.59	I	D	LP	P
MNG	64.802	139.62	6.43	29.55	I	D	SP	P
AFI	65.403	107.75	6.38	29.31	E	D	LP	P
MCQ	65.795	159.14	6.34	29.11	I	D	SP	P
MHI	67.373	307.13	6.21	28.46	I	D	LP	P
KHI	67.691	304.71	6.18	28.34	I	D	SP	P
IR2	74.193	305.46	5.72	26.02	I	D	SP	P
HON	75.917	69.41	5.60	25.48	E	N	LP	P
KER	77.214	303.91	5.53	25.10	I	D	SP	P
TAB	78.015	307.67	5.47	24.82	I	D	LP	P
RAR	78.068	112.83	5.46	24.80	I	D	SP	P
OBO	80.972	281.27	5.20	23.53	I	D	SP	P
ATA	81.085	280.75	5.19	23.49	I	D	SP	P
TDD	81.360	281.11	5.18	23.42	I	D	SP	P
ARO	81.435	280.84	5.17	23.40	I	D	SP	P
HLD	81.836	280.93	5.15	23.28	I	D	SP	P
COL	84.116	25.36	5.00	22.58	I	D	SP	P
COL	84.116	25.36	5.00	22.58	I	D	LP	P
FBAL	84.264	25.35	4.99	22.54	I	D	LP	P
FBAS	84.504	25.49	4.98	22.47	I	D	SP	P
MAW	84.543	199.92	4.98	22.46	I	D	LP	P
OBN	84.953	324.84	4.95	22.34	I	D	LP	P
SBA	85.969	171.89	4.86	21.91	I	D	SP	P
JER	87.252	301.49	4.78	21.52	I	D	SP	P
KEV	88.001	339.83	4.75	21.38	I	D	LP	P
NAI	88.441	268.59	4.73	21.30	I	D	SP	P
ANTO	88.514	309.71	4.73	21.28	I	D	LP	P
NUR	90.680	330.88	4.69	21.08	I	D	LP	P

Table 229. Station data for event 95 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HLW	90.732	299.90	4.69	21.07	I	D	LP	P
MBC	90.909	12.48	4.68	21.06	I	D	SP	P
MLR	92.764	315.95	4.64	20.84	I	D	SP	P
JMB	92.826	312.89	4.63	20.84	I	C	SP	P
TET	92.898	254.14	4.63	20.83	I	D	SP	P
PVL	93.730	313.74	4.60	20.68	I	D	SP	P
MTD	94.852	253.65	4.56	20.51	I	D	SP	P
MMB	95.077	312.41	4.56	20.48	I	D	SP	P
SPA	95.132	180.00	4.56	20.47	I	D	SP	P
VTS	95.258	313.49	4.55	20.46	I	D	SP	P
DAG	95.643	352.16	4.55	20.42	I	D	SP	P
THE	95.834	311.59	4.54	20.41	I	D	SP	P
VAY	95.984	312.33	4.54	20.39	I	D	SP	P
PSZ	96.305	319.23	4.53	20.36	I	D	SP	P
SKO	96.669	313.15	4.53	20.33	I	D	SP	P
KRI	96.737	253.72	4.53	20.32	I	D	SP	P
BUD	96.987	318.96	4.52	20.30	I	D	SP	P
KSP	97.740	322.72	4.50	20.21	I	D	SP	P
BUL	97.858	250.46	4.49	20.18	I	D	SP	P
KONO	98.102	332.42	4.49	20.14	I	D	LP	P
SLR	98.375	244.85	4.48	20.12	I	D	SP	P
YKA	98.855	23.95	4.47	20.08	I	D	LP	P
RSNT	98.867	23.96	4.47	20.08	I	D	LP	P
PRU	99.075	322.27	4.47	20.05	I	D	SP	P
BRG	99.138	323.24	4.47	20.04	I	D	SP	P
MUD	99.648	329.58	4.45	19.95	I	D	SP	P
BFS	99.744	243.71	4.44	19.94	I	D	SP	P
KHC	99.953	321.66	4.44	19.93	I	D	SP	P
BLF	100.292	241.48	4.44	19.92	I	D	SP	Pdf
GRF	101.192	322.75	4.44	19.92	I	D	SP	Pdf
COR	101.486	42.70	4.44	19.92	I	D	SP	Pdf
RMP	102.980	314.83	4.44	19.92	I	D	LP	Pdf
BNS	103.058	325.01	4.44	19.92	I	D	SP	Pdf
DBN	103.670	326.62	4.44	19.92	I	D	LP	Pdf
EDM	103.988	31.89	4.44	19.92	I	D	SP	Pdf
SUR	104.833	238.01	4.44	19.92	I	D	SP	Pdf
GDH	105.744	359.50	1.89	8.34	I	D	LP	Pdf
BNG	106.049	276.09	1.89	8.34	I	D	SP	Pdf
EKA	106.214	332.15	1.89	8.34	I	D	LP	Pdf
GRC	107.114	322.86	1.89	8.34	I	D	SP	Pdf
ALM	115.715	315.13	1.88	8.29	I	D	SP	PKP
LHC	118.745	25.42	1.88	8.28	I	D	SP	PKP
TIO	122.091	311.48	1.87	8.26	I	D	SP	PKP
MNT	126.853	16.41	1.86	8.21	I	D	SP	PKP
WES	130.370	15.98	1.85	8.16	E	D	LP	PKP
SHA	132.219	39.65	1.84	8.11	E	D	LP	PKP
LPA	150.273	174.93	1.55	6.82	I	D	LP	PKP
UPA	151.685	60.34	1.50	6.62	I	D	SP	PKP
SJG	154.337	25.43	1.41	6.20	I	D	SP	PKP
ANT	156.255	142.42	1.33	5.86	I	D	LP	PKP

Table 229. Station data for event 95 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NNA	157.260	108.76	1.29	5.67	I	D	LP	PKP
SDV	158.985	48.44	1.21	5.33	I	D	SP	PKP
ARE	160.216	125.85	1.15	5.07	I	D	SP	PKP
YJA	160.216	149.67	1.15	5.07	I	D	SP	PKP
ZOBO	162.953	131.34	1.01	4.46	I	D	SP	PKP
ITR	163.285	256.76	1.00	4.38	I	D	SP	PKP
GUV	164.724	32.53	0.92	4.04	I	D	SP	PKP
SOB1	165.561	253.06	0.87	3.84	I	D	SP	PKP
ATB	176.764	305.12	0.20	0.89	I	D	SP	PKP

Table 230. Station data for event 102.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	1.228	113.24	17.07	121.07	I	D	LP	P
BAG	9.554	337.10	13.79	43.79	I	D	LP	P
SZP	10.646	338.98	13.67	43.31	I	C	SP	P
ANP	17.727	351.28	12.52	38.92	I	C	LP	P
QIZ	18.182	310.19	12.42	38.55	I	D	SP	P
GUA	20.972	71.89	10.21	30.82	E	D	LP	P
SSE	23.592	353.02	9.70	29.13	E	C	LP	P
PSI	25.862	260.53	9.39	28.11	I	C	SP	P
KMI	27.086	312.60	9.29	27.79	I	D	LP	P
WB2	29.033	160.50	9.05	27.01	I	C	SP	P
MAT	31.447	21.56	8.79	26.17	I	D	SP	P
ASPA	32.395	163.66	8.72	25.95	I	C	LP	P
CTAO	34.877	142.35	8.56	25.44	I	C	LP	P
CTA	34.877	142.35	8.56	25.44	I	C	SP	P
NWAO	40.852	189.28	8.22	24.36	I	C	LP	P
NDI	49.144	301.50	7.75	22.89	I	D	SP	P
PVC	50.100	120.57	7.67	22.64	I	C	SP	P
NOU	50.750	126.83	7.63	22.51	I	C	SP	P
TAU	54.389	159.43	7.30	21.49	I	C	LP	P
MHI	65.394	306.40	6.44	18.85	I	D	SP	P
SNZO	66.963	140.98	6.31	18.46	I	C	LP	P
COL	82.246	25.48	5.18	15.07	I	C	SP	P
OBN	82.604	324.67	5.15	14.98	I	C	SP	P
JER	85.423	301.30	4.96	14.41	I	C	SP	P
PVL	91.582	313.72	4.69	13.61	I	C	SP	P
GZR	92.768	316.29	4.65	13.49	I	D	SP	P
DAG	93.178	352.06	4.65	13.49	I	C	SP	P
KRA	93.433	321.30	4.63	13.43	I	C	SP	P
JOS	93.476	319.69	4.63	13.43	I	C	SP	P
KSP	95.422	322.75	4.56	13.23	I	C	SP	P
BUL	98.011	250.73	4.51	13.08	I	C	SP	P

Table 231. Station data for event 112.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
AAI	6.010	129.96	13.09	94.33	I	D	SP	P
BKB	6.820	257.77	13.12	91.38	I	D	SP	P
DAV	7.127	16.15	13.12	90.76	I	C	LP	P
CGP	8.277	7.67	13.10	86.37	I	C	SP	P
PLP	10.983	7.21	12.90	79.32	I	C	SP	P
BAG	16.378	349.73	12.21	68.46	I	C	LP	P
TZZ	18.432	107.38	10.41	52.47	I	D	SP	P
MBL	21.536	189.57	9.76	48.06	I	D	SP	P
MDG	22.818	104.03	9.57	46.83	I	D	SP	P
QIZ	23.063	325.00	9.54	46.62	I	C	SP	P
PPI	23.194	268.39	9.52	46.51	I	C	SP	P
HKC	23.806	337.97	9.45	46.07	I	C	SP	P
MOM	23.919	95.45	9.44	46.00	I	D	SP	P
NAU	23.932	198.69	9.44	45.99	I	C	SP	P
SNG	23.930	287.35	9.44	45.99	I	C	SP	P
GZH	24.832	337.06	9.36	45.53	I	C	SP	P
ANP	24.916	355.55	9.36	45.48	I	C	LP	P
QZH	25.066	349.26	9.34	45.40	I	C	SP	P
ASPA	25.748	157.78	9.27	44.97	I	D	SP	P
ISQ	25.997	144.01	9.25	44.81	I	D	SP	P
WBN	26.338	173.92	9.22	44.62	I	D	SP	P
MEK	27.088	189.94	9.14	44.16	I	C	SP	P
NST	27.790	304.70	9.03	43.48	I	C	SP	P
RAB	28.894	99.00	8.89	42.65	I	D	LP	P
BDT	29.537	306.27	8.84	42.36	I	C	SP	P
CTAO	29.989	133.54	8.81	42.16	I	D	LP	P
CTA	29.989	133.54	8.81	42.16	I	D	LP	P
MRWA	30.130	193.29	8.80	42.10	I	C	SP	P
CHG	30.447	308.81	8.78	41.99	I	C	SP	P
CHTO	30.447	308.81	8.78	41.99	E	C	LP	P
CHTO	30.447	308.81	8.78	41.99	I	C	SP	P
SSE	30.809	355.99	8.75	41.81	I	C	LP	P
KLG	30.871	183.56	8.74	41.78	I	C	SP	P
BAL	31.319	191.45	8.72	41.63	I	C	SP	P
KMI	31.937	322.43	8.67	41.36	I	C	SP	P
NJ2	31.992	352.41	8.67	41.34	I	C	SP	P
KLB	32.089	189.38	8.66	41.30	I	C	SP	P
BGA	32.162	101.85	8.66	41.27	I	D	SP	P
MUN	32.748	191.63	8.62	41.07	I	C	SP	P
NWAO	33.481	189.70	8.58	40.80	E	N	LP	P
NWAO	33.481	189.70	8.58	40.80	I	C	SP	P
RKG	34.636	189.62	8.51	40.43	I	C	SP	P
XAN	36.361	339.24	8.41	39.87	I	C	SP	P
SEO	37.311	4.44	8.36	39.55	I	C	LP	P
HNR	37.443	105.80	8.35	39.50	I	D	LP	P
CMS	37.909	148.23	8.32	39.34	I	D	SP	P
DDR	38.461	20.54	8.29	39.16	I	C	SP	P
DL2	38.559	357.55	8.28	39.13	I	C	SP	P
MAJO	38.620	19.02	8.28	39.11	I	C	LP	P
MAT	38.620	19.02	8.28	39.11	I	C	SP	P

Table 231. Station data for event 112 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TIY	38.718	345.81	8.27	39.09	I	C	SP	P
LZH	40.141	334.89	8.20	38.65	I	C	LP	P
BJI	40.222	351.18	8.19	38.62	E	C	LP	P
BFD	41.116	156.75	8.15	38.38	I	D	SP	P
YOU	41.424	148.33	8.13	38.28	I	D	SP	P
SNY	41.436	360.00	8.13	38.27	I	C	SP	P
HHC	41.905	346.32	8.10	38.11	I	C	SP	P
BTO	42.058	344.54	8.09	38.07	I	C	SP	P
CAN	42.550	148.73	8.07	37.96	I	D	SP	P
RIV	42.608	145.30	8.07	37.94	I	D	SP	P
TOO	42.679	154.06	8.06	37.92	I	D	SP	P
WAM	43.167	149.64	8.03	37.75	I	D	SP	P
CN2	43.440	1.97	8.02	37.66	I	C	SP	P
MDJ	44.545	6.12	7.96	37.35	I	C	SP	P
GTA	44.667	333.63	7.95	37.31	I	C	SP	P
KOU	44.826	119.91	7.94	37.26	I	D	SP	P
PKI	45.616	309.85	7.90	37.00	I	C	SP	P
KKN	45.825	310.03	7.88	36.93	I	C	SP	P
NOU	47.357	121.08	7.80	36.45	I	D	SP	P
PVC	47.465	114.46	7.79	36.40	I	D	SP	P
HYB	47.486	293.60	7.79	36.40	I	C	SP	P
TAU	47.911	156.51	7.75	36.17	E	D	LP	P
WMQ	53.926	328.33	7.27	33.64	I	C	SP	P
MHI	69.204	308.99	6.07	27.55	I	C	SP	P
SHI	73.483	300.81	5.77	26.10	I	C	SP	P
AVY	76.685	250.61	5.56	25.08	I	C	SP	P
KER	78.732	304.89	5.42	24.42	I	C	SP	P
HON	79.131	68.45	5.39	24.25	E	C	LP	P
TAB	79.850	308.54	5.31	23.86	I	C	LP	P
ARO	80.882	281.57	5.21	23.41	I	C	SP	P
SBA	81.305	171.57	5.18	23.27	I	C	SP	P
JER	88.522	301.60	4.73	21.13	I	C	SP	P
PME	88.580	28.51	4.73	21.12	I	C	SP	P
COL	89.237	25.25	4.71	21.02	I	C	SP	P
COL	89.237	25.25	4.71	21.02	I	C	LP	P
SPA	90.195	180.00	4.70	20.97	I	C	SP	P
ANTO	90.482	309.68	4.69	20.96	I	C	LP	P
JOZ	91.426	242.71	4.67	20.85	I	C	SP	P
HLW	91.849	299.71	4.66	20.82	I	C	SP	P
MTD	91.971	253.33	4.66	20.81	I	C	SP	P
KEV	92.101	339.75	4.66	20.79	I	C	SP	P
KEV	92.101	339.75	4.66	20.79	I	C	LP	P
KJF	92.389	334.17	4.65	20.74	I	C	SP	P
SOD	92.505	337.38	4.64	20.72	I	C	SP	P
SUF	93.244	332.76	4.62	20.62	I	C	SP	P
KRI	93.856	253.25	4.60	20.51	I	C	SP	P
NUR	94.236	330.65	4.59	20.46	I	C	SP	P
INK	94.579	21.32	4.58	20.42	I	C	SP	P
BUL	94.735	249.93	4.57	20.39	I	C	SP	P
SLR	94.864	244.34	4.56	20.35	I	C	SP	P

Table 231. Station data for event 112 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SEK	95.342	241.73	4.55	20.31	I	C	SP	P
PVL	96.012	313.27	4.54	20.24	I	C	SP	P
VIR	96.026	241.94	4.54	20.24	I	C	SP	P
KDZ	96.031	311.75	4.54	20.24	I	C	SP	P
MBC	96.061	12.38	4.54	20.24	I	C	SP	P
KSR	96.106	244.16	4.54	20.24	I	C	SP	P
BFS	96.156	243.12	4.54	20.23	I	C	SP	P
VLR	96.883	316.93	4.52	20.16	I	C	SP	P
MMB	97.246	311.83	4.52	20.13	I	C	SP	P
VTs	97.514	312.89	4.51	20.10	I	C	SP	P
VAY	98.143	311.67	4.49	20.00	I	C	SP	P
JOS	98.487	319.06	4.48	19.96	I	C	SP	P
SPC	98.557	319.79	4.48	19.96	I	C	SP	P
KRA	98.594	320.69	4.48	19.95	I	C	SP	P
SRO	100.079	318.66	4.44	19.78	I	C	SP	Pdf
DAG	100.316	351.78	4.44	19.78	I	C	SP	Pdf
KSP	100.708	321.96	4.44	19.78	I	C	SP	Pdf
SUR	100.886	237.18	4.44	19.78	I	C	SP	Pdf
SOP	101.264	318.79	4.44	19.78	I	C	SP	Pdf
VKA	101.290	319.40	4.44	19.78	I	C	SP	Pdf
COP	101.628	327.36	4.44	19.78	E	C	LP	Pdf
PRU	102.005	321.40	4.44	19.78	I	C	SP	Pdf
BRN	102.158	324.03	4.44	19.78	I	C	SP	Pdf
KHC	102.835	320.72	4.44	19.78	I	C	SP	Pdf
MUD	103.098	328.73	4.44	19.78	I	C	SP	Pdf
WET	103.273	320.86	4.44	19.78	I	C	SP	Pdf
HOF	103.563	322.21	4.44	19.78	I	C	SP	Pdf
MOX	103.623	322.58	4.44	19.78	I	C	SP	Pdf
CTI	104.934	318.03	4.44	19.78	I	C	SP	Pdf
BNG	104.974	274.61	4.44	19.78	I	C	SP	Pdf
MEM	106.999	323.80	1.89	8.28	I	C	SP	Pdf
BSF	107.529	320.89	1.89	8.28	I	C	SP	PKP
HAU	107.747	321.17	1.89	8.28	I	C	SP	PKP
CVF	107.853	315.16	1.89	8.28	I	C	SP	PKP
EDM	108.990	32.21	1.89	8.28	I	C	SP	PKP
FRF	109.086	316.70	1.89	8.28	I	C	SP	PKP
LOR	109.584	321.11	1.89	8.28	I	C	SP	PKP
LBF	109.619	320.80	1.89	8.28	I	C	SP	PKP
SMF	109.836	320.51	1.89	8.28	I	C	SP	PKP
SSF	109.887	321.01	1.89	8.28	I	C	SP	PKP
AVF	110.090	320.79	1.89	8.28	I	C	SP	PKP
BGF	110.502	320.71	1.89	8.28	I	C	SP	PKP
MZF	110.805	320.45	1.89	8.28	I	C	SP	PKP
LDF	111.462	323.59	1.89	8.28	I	C	SP	PKP
LSF	111.460	320.80	1.89	8.28	I	C	SP	PKP
FLN	111.599	323.87	1.89	8.28	I	C	SP	PKP
CAF	111.654	319.34	1.89	8.28	I	C	SP	PKP
GRR	111.992	323.63	1.89	8.28	I	C	SP	PKP
LPF	112.264	323.35	1.89	8.27	I	C	SP	PKP
LPO	112.323	319.37	1.89	8.27	I	C	SP	PKP

Table 231. Station data for event 112 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MFF	112.359	321.68	1.89	8.27	I	C	SP	PKP
LFF	112.507	319.76	1.89	8.27	I	C	SP	PKP
EPF	113.558	318.00	1.88	8.26	I	C	SP	PKP
FFC	113.792	26.92	1.88	8.25	I	C	SP	PKP
FRB	115.583	5.95	1.88	8.24	I	C	SP	PKP
LGR	115.697	318.41	1.88	8.23	I	C	SP	PKP
ALM	118.030	312.71	1.88	8.22	I	C	SP	PKP
CRT	118.723	313.48	1.88	8.22	I	C	SP	PKP
GOL	120.298	42.37	1.87	8.20	I	C	SP	PKP
PTO	120.332	319.57	1.87	8.20	E	C	LP	PKP
LHC	123.862	25.80	1.87	8.18	I	C	SP	PKP
TIO	124.076	308.29	1.87	8.18	I	C	SP	PKP
YBT	126.281	308.07	1.86	8.16	I	C	SP	PKP
III	133.860	64.04	1.83	8.01	I	C	SP	PKP
BLA	136.662	28.24	1.80	7.90	E	C	LP	PKP
SAN	144.316	159.35	1.69	7.42	I	C	SP	PKP
BAA	145.734	176.97	1.67	7.29	I	C	SP	PKP
CYA	150.516	163.05	1.54	6.74	I	C	SP	PKP
BOG	161.733	74.59	1.08	4.71	I	C	LP	PKP
SOB1	162.140	239.49	1.06	4.62	I	C	SP	PKP
SDV	163.211	57.15	1.00	4.37	I	C	SP	PKP
CAR	165.091	44.21	0.90	3.93	I	C	SP	PKP

Table 232. Station data for event 115.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	8.505	339.92	13.86	54.53	I	C	LP	P
BAG	18.942	335.93	12.17	45.65	I	C	LP	P
PMG	20.367	114.97	10.31	37.29	E	D	LP	P
PIP	20.666	338.32	10.31	37.29	I	C	SP	P
GUA	21.718	47.93	10.05	36.20	I	D	LP	P
ASPA	23.174	167.35	9.76	34.99	I	C	SP	P
RAB	23.854	98.17	9.60	34.34	E	D	LP	P
ANP	26.845	345.87	9.28	33.04	I	C	LP	P
QIZ	27.024	318.22	9.28	33.04	I	C	SP	P
QZH	27.473	340.19	9.23	32.84	I	C	SP	P
GZH	28.084	329.22	9.18	32.64	I	C	SP	P
SNG	28.974	286.62	9.04	32.09	I	C	LP	P
BAL	31.543	199.70	8.79	31.10	I	C	SP	P
HNR	32.394	106.13	8.72	30.82	E	D	LP	P
SSE	32.618	348.30	8.72	30.82	E	C	LP	P
MUN	32.968	199.43	8.68	30.67	I	C	SP	P
NWAO	33.523	197.32	8.65	30.55	I	C	LP	P
NJ2	34.070	345.28	8.62	30.43	I	C	SP	P
WHN	34.095	337.89	8.62	30.43	I	C	SP	P
BDT	34.237	303.23	8.62	30.43	I	C	SP	P
CHG	35.063	305.56	8.56	30.20	I	C	SP	P
CHTO	35.063	305.56	8.56	30.20	I	C	LP	P
KMI	35.973	317.86	8.50	29.96	I	C	LP	P
SEO	38.349	358.03	8.35	29.38	I	C	LP	P
MAJO	38.375	12.63	8.35	29.38	I	C	LP	P
XAN	39.369	333.97	8.29	29.15	I	C	SP	P
CD2	39.463	325.52	8.29	29.15	I	C	SP	P
TOO	39.656	158.67	8.29	29.15	I	C	SP	P
DL2	40.161	351.67	8.27	29.07	I	C	SP	P
TIY	41.240	340.54	8.21	28.84	I	C	SP	P
PVC	42.518	115.47	8.13	28.54	I	D	SP	P
NOU	42.571	122.68	8.13	28.54	I	D	SP	P
LZH	43.416	330.54	8.07	28.31	I	C	SP	P
CN2	44.634	356.85	8.02	28.12	I	C	SP	P
BTO	44.651	339.90	8.02	28.12	I	C	SP	P
TAU	45.040	160.44	7.99	28.00	I	C	LP	P
GTA	48.003	329.97	7.81	27.32	I	C	SP	P
PKI	50.169	307.83	7.66	26.75	I	C	SP	P
KKN	50.370	308.01	7.62	26.60	I	C	SP	P
KOD	51.982	283.71	7.50	26.15	I	C	SP	P
POO	57.074	292.77	7.11	24.69	I	C	SP	P
NDI	57.211	305.35	7.11	24.69	I	C	SP	P
AFI	60.424	105.38	6.84	23.70	I	D	LP	P
KSH	62.578	316.19	6.68	23.11	I	C	SP	P
MHI	73.765	308.22	5.78	19.85	I	C	SP	P
HON	74.986	67.75	5.71	19.60	I	D	LP	P
ARO	85.936	281.55	4.90	16.73	E	C	LP	P
COL	88.174	25.10	4.77	16.28	E	N	LP	P
ANTO	95.000	309.75	4.58	15.61	I	C	LP	P
SLR	98.798	243.93	4.48	15.26	I	D	LP	P

Table 232. Station data for event 115 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAG	102.114	352.68	4.45	15.16	E	C	LP	Pdf
GDH	111.814	0.78	1.89	6.38	E	C	LP	PKP
ESK	113.197	332.33	1.89	6.37	E	C	LP	PKP
BGF	114.471	321.97	1.88	6.36	I	C	SP	PKP
PTO	124.345	321.49	1.87	6.30	E	C	LP	PKP
WES	135.074	20.85	1.82	6.14	E	C	LP	PKP
LPA	143.824	171.02	1.70	5.75	E	C	LP	PKP
CFA	143.936	155.31	1.70	5.75	I	C	SP	PKP
RDJ	154.969	198.27	1.39	4.67	I	C	LP	PKP
BOG	157.166	80.38	1.30	4.40	E	C	LP	PKP

Table 234. Station data for event 116.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	10.823	281.29	13.59	52.84	I	C	SP	P
WB2	13.062	162.13	13.31	51.31	I	D	SP	P
DAV	15.151	342.47	12.98	49.57	I	C	LP	P
CGP	16.715	341.00	12.70	48.14	I	D	SP	P
WBN	18.872	189.90	12.19	45.63	I	D	SP	P
NAU	20.565	221.65	10.33	37.28	I	C	SP	P
PAA	25.209	88.94	9.48	33.77	I	D	SP	P
MRWA	25.400	209.84	9.43	33.57	I	D	SP	P
BAG	25.532	338.33	9.43	33.57	E	C	LP	P
MUN	27.618	206.16	9.24	32.81	I	C	SP	P
NWAO	28.014	203.55	9.19	32.61	I	D	SP	P
CMS	28.034	150.53	9.19	32.61	I	D	SP	P
ADE	28.481	165.10	9.12	32.33	I	D	SP	P
COO	30.728	141.25	8.86	31.30	I	D	SP	P
BFD	31.655	160.89	8.79	31.03	I	D	SP	P
TOO	33.052	157.29	8.69	30.64	I	D	SP	P
KOU	35.509	115.07	8.53	30.01	I	C	SP	P
NST	37.563	307.83	8.42	29.59	I	C	SP	P
NOU	37.949	116.87	8.38	29.43	I	D	SP	P
PVC	38.564	109.06	8.35	29.32	I	D	SP	P
BDT	39.357	308.84	8.30	29.12	I	D	SP	P
CHG	40.337	310.74	8.24	28.89	I	C	SP	P
CHTO	40.337	310.74	8.24	28.89	I	C	SP	P
CHTO	40.337	310.74	8.24	28.89	E	C	LP	P
MAJO	44.422	9.31	8.02	28.05	I	C	LP	P
MAT	44.422	9.31	8.02	28.05	I	C	SP	P
SNY	49.413	353.56	7.70	26.84	I	C	SP	P
MNG	52.109	136.66	7.50	26.09	I	D	SP	P
GTA	54.433	331.27	7.30	25.35	I	C	SP	P
PKI	55.519	310.73	7.22	25.05	I	C	SP	P
KKN	55.732	310.88	7.22	25.05	I	C	SP	P
SBA	72.858	172.40	5.85	20.06	I	D	SP	P
ADK	74.513	31.00	5.75	19.71	I	C	SP	P
HON	76.048	65.93	5.65	19.35	E	C	LP	P
MHI	79.069	309.08	5.45	18.64	I	C	SP	P
COL	93.352	25.04	4.63	15.75	E	C	LP	P
BUL	98.150	248.45	4.51	15.34	I	C	SP	P
BSF	117.552	320.58	1.88	6.32	I	D	SP	PKP
HAU	117.768	320.88	1.88	6.32	I	D	SP	PKP
LBF	119.642	320.49	1.87	6.31	I	D	SP	PKP
SSF	119.909	320.72	1.87	6.31	I	D	SP	PKP
AVF	120.113	320.48	1.87	6.31	I	D	SP	PKP
BGF	120.525	320.40	1.87	6.30	I	D	SP	PKP
TCF	121.037	320.32	1.87	6.30	I	D	SP	PKP
CAF	121.679	318.90	1.87	6.30	I	D	SP	PKP
LPO	122.349	318.94	1.87	6.30	I	D	SP	PKP
MFF	122.377	321.47	1.87	6.30	I	D	SP	PKP

Table 234. Station data for event 127.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MNI	4.613	199.19	13.83	91.17	I	C	SP	P
MAP	5.043	332.37	13.83	88.05	I	C	SP	P
PLP	5.471	345.69	13.81	86.88	I	C	SP	P
PGP	9.296	325.46	13.54	78.11	I	C	SP	P
SZP	12.997	334.15	13.06	70.78	I	C	SP	P
PIP	13.620	336.22	12.97	69.66	I	C	SP	P
MTN	19.149	165.67	10.48	49.25	I	C	SP	P
TRT	19.184	225.67	10.47	49.17	I	D	SP	P
ANP	19.791	346.96	10.34	48.34	E	C	LP	P
CHTO	29.664	298.22	8.90	40.04	I	D	SP	P
KMI	29.662	312.79	8.90	40.04	E	C	LP	P
CHTO	29.664	298.22	8.90	40.04	E	D	LP	P
SEO	31.589	0.93	8.75	39.22	E	C	LP	P
CTAO	32.344	143.27	8.69	38.94	E	C	LP	P
MAJO	32.435	17.97	8.69	38.90	E	D	LP	P
MEK	33.122	192.86	8.65	38.68	I	C	SP	P
MRWA	36.238	195.42	8.46	37.71	I	C	SP	P
BAL	37.385	193.77	8.39	37.34	I	C	SP	P
KLB	38.101	191.93	8.35	37.11	I	C	SP	P
MUN	38.817	193.82	8.31	36.93	I	C	SP	P
NWAO	39.501	192.10	8.27	36.73	I	C	SP	P
RKG	40.651	191.94	8.21	36.38	I	C	SP	P
COO	43.683	147.43	8.04	35.55	I	C	SP	P
KOU	45.559	126.22	7.94	35.03	I	C	SP	P
NOU	48.186	126.85	7.78	34.22	I	C	SP	P
NDI	51.677	302.11	7.50	32.83	I	C	SP	P
TAU	52.108	160.54	7.47	32.66	E	C	LP	P
QUE	60.730	301.30	6.79	29.42	I	C	SP	P
SNZO	64.419	141.38	6.50	28.02	E	C	LP	P
MHI	67.956	306.73	6.21	26.66	I	C	SP	P
COL	82.995	25.38	5.10	21.65	E	C	LP	P
COL	82.995	25.38	5.10	21.65	I	C	SP	P
MMB	95.534	312.65	4.55	19.21	I	C	SP	P
SMF	107.177	322.54	1.89	7.85	I	C	SP	PKP
BNG	107.195	276.44	1.89	7.85	I	C	SP	PKP
AVF	107.402	322.85	1.89	7.85	I	C	SP	PKP
BGF	107.820	322.81	1.89	7.85	I	C	SP	PKP
TCF	108.336	322.79	1.89	7.85	I	C	SP	PKP
CAF	109.100	321.60	1.89	7.85	I	C	SP	PKP
UPA	150.294	60.51	1.55	6.43	I	C	SP	PKP
BDF	168.722	209.52	0.70	2.88	I	C	SP	PKP

Table 235. Station data for event 132.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MAP	2.584	9.57	14.25	123.14	I	D	SP	P
BAG	9.073	341.66	13.81	54.24	I	C	LP	P
SZP	10.188	343.10	13.70	53.61	I	C	SP	P
ANP	17.434	353.86	12.48	47.17	I	C	LP	P
NGO	19.199	12.14	12.17	45.65	I	C	SP	P
SNG	22.740	270.06	9.85	35.37	I	C	LP	P
LOE	23.324	296.35	9.68	34.67	I	C	SP	P
KNA	23.918	167.51	9.60	34.34	I	D	SP	P
CHTO	26.303	297.14	9.33	33.25	I	C	LP	P
PMG	29.050	125.52	9.04	32.09	I	D	SP	P
WB2	29.508	159.01	8.97	31.81	I	C	SP	P
SEO	29.833	5.47	8.91	31.57	I	C	LP	P
RAB	30.928	111.61	8.82	31.22	E	D	LP	P
MAJO	31.615	22.89	8.79	31.10	I	C	LP	P
MAT	31.615	22.89	8.79	31.10	I	C	SP	P
ASPA	32.827	162.30	8.68	30.67	I	C	SP	P
LZH	33.449	330.30	8.65	30.55	I	C	SP	P
CTA	35.566	141.40	8.53	30.08	I	C	SP	P
NWAO	40.896	188.12	8.21	28.84	E	C	LP	P
KKN	41.276	303.72	8.18	28.73	I	C	SP	P
RKG	42.051	188.11	8.16	28.65	I	C	SP	P
ADE	44.839	162.26	7.99	28.00	I	C	SP	P
NDI	48.295	301.65	7.78	27.20	I	C	SP	P
KOU	48.942	125.81	7.74	27.05	I	C	SP	P
CAN	49.112	152.29	7.74	27.05	I	C	SP	P
PVC	50.955	120.21	7.58	26.45	I	D	SP	P
NOU	51.568	126.41	7.54	26.30	I	C	SP	P
QUE	57.351	300.85	7.07	24.55	I	C	LP	P
MHI	64.574	306.45	6.51	22.49	I	C	SP	P
SNZO	67.663	140.62	6.26	21.58	I	C	LP	P
TAB	75.204	307.23	5.71	19.60	I	C	LP	P
HON	76.497	69.96	5.61	19.25	I	C	LP	P
MSL	77.725	305.48	5.55	19.03	I	D	SP	P
ARO	79.419	280.28	5.41	18.54	I	C	LP	P
COL	82.465	25.48	5.14	17.58	I	C	LP	P
JER	84.572	301.21	5.02	17.16	I	C	SP	P
PRNI	84.887	299.81	4.99	17.05	I	C	SP	P
KEV	85.043	339.69	4.99	17.05	I	C	LP	P
KJF	85.613	334.11	4.96	16.94	I	C	LP	P
ANTO	85.664	309.48	4.96	16.94	I	C	LP	P
KBS	86.509	349.62	4.86	16.59	I	C	LP	P
NPA	86.528	254.36	4.86	16.59	I	C	SP	P
NUR	87.667	330.70	4.80	16.38	I	C	LP	P
BUC1	89.977	314.65	4.71	16.07	I	C	SP	P
TET	92.092	254.09	4.67	15.93	I	D	SP	P
DAG	92.877	351.89	4.64	15.82	I	D	SP	P
ATH	92.954	308.76	4.64	15.82	I	C	SP	P
VAY	93.091	312.22	4.64	15.82	I	C	SP	P
SKO	93.764	313.05	4.61	15.72	I	C	SP	P
MTD	94.068	253.70	4.61	15.72	I	C	SP	P

Table 235. Station data for event 132 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
COP	95.260	327.95	4.56	15.54	I	C	LP	P
VKA	95.530	320.11	4.56	15.54	I	C	SP	P
KRI	95.947	253.87	4.55	15.51	I	C	SP	P
BRG	96.136	323.10	4.55	15.51	I	C	SP	P
MUD	96.634	329.40	4.54	15.47	I	C	SP	P
KMR	96.982	320.39	4.53	15.44	I	C	LP	P
BUL	97.234	250.67	4.53	15.44	I	C	LP	P
BUL	97.234	250.67	4.53	15.44	I	C	SP	P
EVA	97.393	244.27	4.52	15.40	I	D	SP	P
HAM	97.467	326.46	4.52	15.40	I	C	SP	P
HOF	97.568	323.05	4.52	15.40	I	C	SP	P
KBA	97.817	319.65	4.51	15.37	I	C	SP	P
TRI	98.011	318.25	4.51	15.37	I	C	SP	P
SLR	98.040	245.11	4.51	15.37	I	D	SP	P
SLR	98.040	245.11	4.51	15.37	E	C	LP	P
GRFO	98.197	322.63	4.51	15.37	I	C	LP	P
GWF	100.638	322.91	4.45	15.16	I	C	SP	Pdf
DOU	101.912	324.83	4.45	15.16	E	C	LP	Pdf
ESK	103.236	331.93	4.45	15.16	I	C	LP	Pdf
VAL	108.619	331.86	1.89	6.38	I	C	LP	PKP
PTO	114.484	322.02	1.88	6.36	E	C	LP	PKP
BLA	129.961	25.03	1.85	6.24	E	C	LP	PKP
SHA	131.172	36.95	1.85	6.23	E	C	LP	PKP
UPA	151.624	54.57	1.50	5.05	E	C	LP	PKP
SJG	152.575	20.35	1.46	4.93	E	C	LP	PKP
LPA	152.948	177.33	1.46	4.93	E	C	LP	PKP
BOG	158.556	55.57	1.22	4.09	I	C	LP	PKP
LPB	165.670	128.55	0.85	2.88	E	C	LP	PKP

Table 236. Station data for event 136.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TLE	4.040	78.88	11.84	111.16	I	C	SP	P
MTN	6.781	160.09	12.63	95.89	I	D	SP	P
MKS	9.328	276.97	12.67	86.56	I	C	SP	P
DAV	13.805	346.61	12.27	75.15	I	D	LP	P
WB2	14.480	158.52	12.18	73.56	I	D	SP	P
TRT	16.059	264.54	11.89	69.47	I	C	SP	P
KKM	17.624	314.45	10.41	55.11	I	D	SP	P
ASPA	17.826	164.45	10.37	54.78	I	D	SP	P
NAU	20.498	217.29	9.82	50.68	I	C	SP	P
CTA	21.733	130.29	9.64	49.39	I	D	SP	P
RAB	23.407	85.70	9.43	47.96	I	D	LP	P
BAG	24.100	340.44	9.37	47.58	I	D	LP	P
KLB	27.059	200.99	9.05	45.48	I	C	SP	P
MUN	27.985	203.19	8.93	44.71	I	C	SP	P
NWAO	28.455	200.67	8.88	44.41	E	C	LP	P
ADE	29.832	163.44	8.78	43.77	I	D	SP	P
CAN	34.243	149.83	8.51	42.06	I	D	SP	P
NST	35.870	308.02	8.41	41.48	I	C	SP	P
SSE	38.013	349.41	8.29	40.76	I	D	LP	P
CHTO	38.648	311.03	8.25	40.54	I	C	LP	P
CHTO	38.648	311.03	8.25	40.54	I	C	SP	P
NOU	39.615	117.40	8.20	40.26	I	C	SP	P
SHK	40.908	4.93	8.13	39.85	I	D	SP	P
MAJO	43.653	11.03	7.98	38.96	I	D	LP	P
SEO	43.801	357.93	7.98	38.94	I	D	LP	P
BJI	47.677	346.92	7.74	37.54	I	D	LP	P
SHIO	47.919	313.08	7.72	37.43	I	C	LP	P
LZH	48.336	332.81	7.68	37.24	I	D	SP	P
PKI	53.830	310.97	7.24	34.79	I	C	SP	P
KKN	54.043	311.13	7.23	34.70	I	C	SP	P
DMN	54.077	310.84	7.23	34.69	I	C	SP	P
POO	59.551	295.76	6.83	32.53	I	C	SP	P
NDI	60.671	307.88	6.74	32.05	I	C	SP	P
QUE	69.470	305.41	6.03	28.37	I	C	LP	P
SBA	74.053	172.21	5.72	26.76	I	C	SP	P
HON	76.868	66.45	5.53	25.82	E	D	LP	P
MHI	77.378	309.26	5.50	25.66	I	C	SP	P
TAB	88.004	308.47	4.74	21.92	E	C	LP	P
COL	92.996	25.11	4.62	21.34	E	D	LP	P
SLR	96.606	243.23	4.52	20.85	E	C	LP	P
KBS	101.308	349.86	4.44	20.47	E	C	LP	Pdf
DAG	107.548	352.55	1.89	8.56	E	C	LP	Pdf
DAG	107.548	352.55	1.89	8.56	I	C	SP	Pdf
COP	109.966	327.31	1.89	8.56	E	C	LP	Pdf
BSF	115.905	320.55	1.88	8.51	I	C	SP	PKP
GDH	117.256	0.92	1.88	8.50	E	C	LP	PKP
FRF	117.426	316.08	1.88	8.50	I	C	SP	PKP
ESY	117.511	331.55	1.88	8.50	I	C	SP	PKP
LRG	117.657	316.04	1.88	8.50	I	C	SP	PKP
EBH	117.748	332.18	1.88	8.50	I	C	SP	PKP

Table 236. Station data for event 136 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
EAU	117.947	331.78	1.88	8.50	I	C	SP	PKP
LOR	117.961	320.78	1.88	8.50	I	C	SP	PKP
LBF	117.995	320.44	1.88	8.50	I	C	SP	PKP
ESK	118.120	331.19	1.88	8.50	E	C	LP	PKP
SSF	118.263	320.67	1.88	8.50	I	C	SP	PKP
AVF	118.465	320.43	1.88	8.49	I	C	SP	PKP
BGF	118.877	320.34	1.87	8.49	I	C	SP	PKP
CAF	120.022	318.86	1.87	8.48	I	C	SP	PKP
LPF	120.638	323.18	1.87	8.48	I	C	SP	PKP
DMU	120.701	331.25	1.87	8.48	I	C	SP	PKP
LFF	120.878	319.31	1.87	8.48	I	C	SP	PKP
DLE	120.882	330.53	1.87	8.48	I	C	SP	PKP
ECP	121.433	329.39	1.87	8.48	I	C	SP	PKP
PTO	128.701	319.04	1.86	8.40	I	C	LP	PKP
SHA	137.822	50.40	1.79	8.11	I	C	LP	PKP
BLA	139.442	36.79	1.77	8.02	I	C	LP	PKP
UPA	151.845	83.03	1.49	6.76	I	C	SP	PKP
SJG	161.391	50.10	1.09	4.93	E	C	LP	PKP
SJG	161.391	50.10	1.09	4.93	I	C	SP	PKP

Table 237. Station data for event 144.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TRT	2.167	314.84	13.32	104.91	I	D	SP	P
BKB	8.388	19.06	13.59	80.50	I	C	SP	P
DAV	19.798	35.36	10.31	48.44	E	C	LP	P
WB2	22.198	120.85	9.80	45.29	I	D	SP	P
KLB	22.481	172.00	9.74	44.99	I	C	SP	P
MUN	22.696	175.54	9.71	44.80	I	D	SP	P
ASPA	23.683	129.64	9.57	43.95	I	D	SP	P
RKG	24.840	174.41	9.43	43.19	I	C	SP	P
BAG	26.260	13.98	9.30	42.46	E	C	LP	P
SZP	27.332	13.12	9.20	41.87	I	C	SP	P
QIZ	28.415	351.34	9.04	41.00	I	C	SP	P
GZH	32.138	358.54	8.71	39.19	I	C	SP	P
PMG	32.527	93.01	8.68	39.02	I	C	SP	P
CTA	32.779	112.81	8.66	38.94	I	D	SP	P
ADE	34.035	142.48	8.59	38.54	I	D	SP	P
QZH	34.245	7.12	8.58	38.47	I	C	SP	P
KMI	35.930	342.15	8.47	37.94	I	C	LP	P
RMQ	36.934	122.19	8.42	37.63	I	D	SP	P
GUMO	37.973	53.75	8.35	37.30	I	C	LP	P
TOO	39.905	139.94	8.25	36.75	I	D	SP	P
YOU	40.038	133.65	8.24	36.70	I	D	SP	P
SSE	40.662	9.24	8.20	36.52	E	C	LP	P
CAN	41.004	134.63	8.19	36.46	I	D	SP	P
COO	41.030	126.53	8.19	36.45	I	D	SP	P
CD2	41.154	346.33	8.18	36.41	I	C	SP	P
NJ2	41.299	6.01	8.17	36.36	I	C	SP	P
WAM	41.376	135.84	8.17	36.34	I	D	SP	P
XAN	43.328	353.63	8.06	35.79	I	C	SP	P
HYB	44.063	306.89	8.02	35.57	I	C	SP	P
TAU	44.304	144.90	8.01	35.53	E	C	LP	P
LSA	44.618	331.01	7.99	35.45	I	C	SP	P
PKI	45.998	323.55	7.91	35.02	I	C	SP	P
LZH	46.123	348.36	7.90	34.99	I	C	SP	P
DMN	46.205	323.31	7.90	34.96	I	C	SP	P
KKN	46.237	323.63	7.90	34.95	I	C	SP	P
DL2	48.395	7.77	7.76	34.26	I	C	SP	P
POO	48.428	304.83	7.76	34.24	I	C	SP	P
BJI	49.063	2.02	7.71	33.99	E	C	LP	P
BTO	49.735	355.84	7.65	33.72	I	C	SP	P
HHC	49.895	357.40	7.64	33.66	I	C	SP	P
GTA	50.208	345.51	7.61	33.53	I	C	SP	P
MAT	50.832	25.02	7.56	33.28	I	C	SP	P
MAJO	50.832	25.02	7.56	33.28	I	C	LP	P
NOU	51.705	111.07	7.49	32.94	I	D	SP	P
NDI	51.913	317.83	7.48	32.85	I	C	SP	P
CN2	53.770	10.10	7.33	32.12	I	C	SP	P
MDJ	55.385	13.33	7.20	31.49	I	C	SP	P
WMQ	58.029	337.63	7.01	30.56	I	C	SP	P
KHI	68.030	312.48	6.20	26.72	I	C	LP	P
MHI	68.475	314.87	6.16	26.56	I	C	SP	P

Table 237. Station data for event 144 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ARO	73.864	284.84	5.77	24.75	I	C	LP	P
KER	76.792	308.48	5.58	23.90	I	C	SP	P
TET	78.526	255.36	5.47	23.37	I	C	SP	P
TAB	78.713	311.79	5.45	23.31	I	C	LP	P
MTD	80.354	254.50	5.29	22.59	I	C	SP	P
EVA	81.590	244.50	5.19	22.13	I	C	SP	P
SLR	82.385	245.19	5.14	21.88	I	C	LP	P
SLR	82.385	245.19	5.14	21.88	I	C	SP	P
BPI	82.560	244.72	5.13	21.84	I	C	SP	P
SEK	82.673	242.54	5.12	21.80	I	C	SP	P
BUL	82.748	250.80	5.12	21.78	I	C	SP	P
GRM	83.011	237.45	5.10	21.71	I	C	SP	P
VIR	83.369	242.70	5.08	21.62	I	C	SP	P
BLF	83.834	241.60	5.05	21.49	I	C	SP	P
ANTO	89.321	310.44	4.71	20.00	I	C	LP	P
ELL	90.915	306.93	4.69	19.90	I	C	SP	P
YLV	92.026	310.60	4.67	19.80	I	C	SP	P
ISK	92.349	311.05	4.66	19.74	I	C	SP	P
DST	92.420	309.56	4.65	19.73	I	C	SP	P
CTT	92.832	311.05	4.64	19.69	I	C	SP	P
EDC	93.124	310.19	4.64	19.65	I	C	SP	P
TLB	93.686	314.40	4.62	19.56	I	C	SP	P
EZN	94.209	309.49	4.60	19.51	I	C	SP	P
VRI	94.795	315.53	4.58	19.40	I	C	SP	P
KDZ	95.197	311.19	4.56	19.33	I	C	SP	P
MLR	95.285	315.08	4.56	19.31	I	C	SP	P
PVL	95.525	312.67	4.55	19.27	I	C	SP	P
PLD	95.736	311.59	4.54	19.25	I	C	SP	P
BNG	96.255	273.47	4.53	19.21	I	C	SP	P
KJF	96.712	333.90	4.53	19.17	I	C	SP	P
VTS	96.900	311.95	4.52	19.15	I	C	SP	P
SUF	97.240	332.34	4.52	19.12	I	C	SP	P
CLO	97.440	314.40	4.51	19.11	I	C	SP	P
KEV	97.624	339.46	4.51	19.09	I	C	SP	P
NUR	97.741	330.04	4.51	19.08	I	C	SP	P
JOS	99.259	317.73	4.46	18.90	I	C	SP	P
KRA	99.736	319.29	4.46	18.86	I	C	SP	P
SRO	100.716	316.96	4.45	18.84	I	C	SP	Pdf
UPP	101.225	329.26	4.45	18.84	I	C	SP	Pdf
KBS	101.369	348.88	4.45	18.84	E	C	LP	Pdf
ZST	101.539	317.33	4.45	18.84	I	C	SP	Pdf
COL	101.718	25.56	4.45	18.84	E	C	LP	Pdf
KSP	102.084	320.04	4.45	18.84	I	C	SP	Pdf
HFS	103.186	329.63	4.45	18.84	I	C	SP	Pdf
BRG	103.571	320.10	4.45	18.84	I	C	SP	Pdf
KHC	103.868	318.31	4.45	18.84	I	C	SP	Pdf
CLL	104.146	320.57	4.45	18.84	I	C	SP	Pdf
WET	104.326	318.34	4.45	18.84	I	C	SP	Pdf
MOX	105.060	319.94	1.89	7.88	I	C	SP	PKP
LBF	110.474	316.69	1.89	7.88	I	C	SP	PKP

Table 237. Station data for event 144 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
LOR	110.512	317.01	1.89	7.88	I	C	SP	PKP
SMF	110.617	316.35	1.89	7.88	I	C	SP	PKP
SSF	110.781	316.83	1.89	7.88	I	C	SP	PKP
AVF	110.927	316.56	1.89	7.88	I	C	SP	PKP
BGF	111.308	316.37	1.89	7.88	I	C	SP	PKP
MZF	111.543	316.04	1.89	7.88	I	C	SP	PKP
TCF	111.787	316.16	1.89	7.88	I	C	SP	PKP
CAF	112.111	314.73	1.89	7.88	I	C	SP	PKP
LSF	112.259	316.21	1.89	7.88	I	C	SP	PKP
RJF	112.431	315.20	1.89	7.88	I	C	SP	PKP
LPO	112.767	314.58	1.89	7.87	I	C	SP	PKP
LDF	112.900	318.94	1.89	7.87	I	C	SP	PKP
FLN	113.096	319.17	1.89	7.86	I	C	SP	PKP
MFF	113.330	316.82	1.89	7.86	I	C	SP	PKP
GRR	113.423	318.84	1.88	7.86	I	C	SP	PKP
LPF	113.622	318.49	1.88	7.86	I	C	SP	PKP
PTO	120.556	312.49	1.87	7.81	E	C	LP	PKP
WDC	121.062	48.02	1.87	7.81	I	C	SP	PKP
EDM	121.891	31.50	1.87	7.80	I	C	SP	PKP
ORV	122.106	48.93	1.87	7.80	I	C	SP	PKP
YKM	122.671	36.88	1.87	7.80	I	C	SP	PKP
LHD	123.029	37.47	1.87	7.79	I	C	SP	PKP
LDM	123.086	37.18	1.87	7.79	I	C	SP	PKP
CLX	123.305	37.37	1.87	7.79	I	C	SP	PKP
JAS1	123.358	50.52	1.87	7.79	I	C	SP	PKP
FFC	126.325	25.15	1.86	7.77	I	C	SP	PKP
ITR	147.381	237.53	1.63	6.79	I	C	SP	PKP
LPB	154.293	174.95	1.41	5.88	I	C	SP	PKP
NNA	156.232	152.33	1.34	5.56	I	C	SP	PKP
UPA	166.450	90.02	0.83	3.43	E	C	LP	PKP
BOG	170.613	118.73	0.58	2.43	E	C	LP	PKP
GUV	176.957	242.24	0.19	0.80	I	C	SP	PKP

Table 238. Station data for event 145.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	5.492	351.30	14.04	83.12	I	D	LP	P
BKB	9.915	253.30	13.63	74.54	I	D	SP	P
GUA	21.799	56.21	9.92	44.54	I	C	LP	P
WB2	22.801	160.40	9.73	43.47	I	C	SP	P
PMG	23.388	118.31	9.66	43.08	I	C	LP	P
QIZ	23.721	317.89	9.66	43.08	I	D	SP	P
ANP	23.892	349.00	9.58	42.64	E	C	LP	P
NAH	24.480	2.76	9.52	42.31	I	C	SP	P
NGO	24.871	3.33	9.46	41.99	I	C	SP	P
ASPA	26.168	164.27	9.36	41.44	I	C	SP	P
RAB	26.381	102.72	9.32	41.23	I	C	LP	P
CTA	29.053	138.93	9.02	39.63	I	C	LP	P
SSE	29.724	350.94	8.95	39.26	E	C	LP	P
BSI	31.287	277.87	8.78	38.38	I	D	SP	P
KMI	32.671	317.61	8.71	38.02	E	D	LP	P
KLB	34.034	193.26	8.61	37.51	I	D	SP	P
HNR	35.163	108.83	8.55	37.20	I	C	LP	P
NWAO	35.435	193.38	8.52	37.05	E	C	LP	P
SEO	35.768	0.76	8.49	36.89	I	C	LP	P
XAN	36.158	334.98	8.49	36.89	I	D	SP	P
MAJO	36.417	16.10	8.46	36.74	I	C	LP	P
MAT	36.417	16.10	8.46	36.74	I	C	SP	P
RKG	36.583	193.15	8.46	36.74	I	D	SP	P
DL2	37.359	353.85	8.40	36.44	I	C	SP	P
TIY	38.144	341.93	8.37	36.29	I	C	SP	P
SNY	40.102	356.71	8.26	35.74	I	D	SP	P
YOU	41.244	151.97	8.20	35.44	I	C	SP	P
HHC	41.292	342.87	8.18	35.34	I	C	SP	P
BTO	41.541	341.09	8.18	35.34	I	C	SP	P
CN2	42.002	358.96	8.15	35.19	I	C	SP	P
CAN	42.388	152.23	8.12	35.04	I	C	SP	P
GTA	44.743	330.48	8.01	34.50	I	D	SP	P
PVC	45.527	116.88	7.96	34.25	I	C	SP	P
NOU	45.725	123.69	7.96	34.25	I	C	SP	P
TAU	48.161	159.39	7.81	33.52	I	C	LP	P
NDI	54.027	304.73	7.33	31.22	I	D	SP	P
POO	54.166	291.68	7.33	31.22	I	C	SP	P
SNZO	61.147	140.05	6.79	28.69	I	C	LP	P
QUE	63.008	303.18	6.63	27.96	I	C	LP	P
AFI	63.140	106.38	6.63	27.96	I	C	LP	P
MHI	70.538	307.98	6.02	25.19	I	D	SP	P
HON	75.981	68.55	5.64	23.50	I	C	LP	P
SBA	82.303	172.04	5.14	21.31	I	C	SP	P
MSL	83.613	306.25	5.08	21.05	I	C	SP	P
RTB	85.853	302.82	4.90	20.27	I	C	SP	P
COL	86.750	25.22	4.82	19.93	I	C	LP	P
COL	86.750	25.22	4.82	19.93	I	C	SP	P
JER	90.190	301.62	4.71	19.45	I	D	SP	P
PRNI	90.412	300.20	4.70	19.41	I	D	SP	P
KEV	91.748	339.90	4.68	19.33	I	C	LP	P

Table 238. Station data for event 145 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ANTO	91.753	309.78	4.67	19.28	I	C	LP	P
KBS	93.015	349.84	4.64	19.15	I	C	LP	P
KBS	93.015	349.84	4.64	19.15	I	C	SP	P
TET	93.168	254.02	4.64	19.15	I	C	SP	P
HLW	93.601	299.88	4.63	19.11	I	C	SP	P
MBC	94.066	12.64	4.61	19.03	I	C	SP	P
ELL	94.254	306.84	4.59	18.94	I	C	SP	P
YLV	94.307	310.69	4.59	18.94	I	C	SP	P
ISK	94.493	311.21	4.59	18.94	I	C	SP	P
MTD	95.086	253.40	4.58	18.90	I	C	SP	P
BNT	95.432	310.60	4.56	18.81	I	C	SP	P
YER	95.512	307.36	4.56	18.81	I	C	SP	P
VRI	95.590	316.20	4.56	18.81	I	C	SP	P
MLR	96.187	315.91	4.55	18.77	I	C	SP	P
BUC	96.239	314.82	4.55	18.77	I	C	SP	P
BUC1	96.296	314.76	4.54	18.73	I	C	SP	P
PVL	97.092	313.66	4.53	18.68	I	C	SP	P
KDZ	97.189	312.14	4.53	18.68	I	C	SP	P
EVA	97.286	243.64	4.52	18.64	I	D	SP	P
PLD	97.596	312.68	4.52	18.64	I	C	SP	P
BUL	97.877	250.01	4.51	18.60	I	C	SP	P
SLR	98.026	244.39	4.51	18.60	I	C	LP	P
WAR	98.103	323.21	4.51	18.60	E	C	LP	P
CLO	98.444	315.87	4.49	18.51	I	C	SP	P
SEK	98.504	241.76	4.49	18.51	I	C	SP	P
VTS	98.612	313.36	4.49	18.51	I	C	SP	P
ATH	98.998	308.68	4.48	18.47	I	C	SP	P
JOS	99.257	319.58	4.46	18.38	I	C	SP	P
KRA	99.277	321.22	4.46	18.38	I	C	SP	P
SPC	99.288	320.31	4.46	18.38	I	C	SP	P
SKO	100.012	312.98	4.45	18.34	I	C	SP	Pdf
BUD	100.484	318.83	4.45	18.34	I	C	SP	Pdf
KSP	101.318	322.61	4.45	18.34	I	C	SP	Pdf
COP	101.942	328.06	4.45	18.34	I	C	LP	Pdf
VKA	102.038	320.08	4.45	18.34	I	C	SP	Pdf
BRG	102.726	323.11	4.45	18.34	I	C	SP	Pdf
CLL	103.144	323.73	4.45	18.34	I	C	SP	Pdf
KMR	103.499	320.32	4.45	18.34	I	C	LP	Pdf
KHC	103.510	321.49	4.45	18.34	I	C	SP	Pdf
HOF	104.156	323.02	4.45	18.34	I	C	SP	Pdf
MOX	104.196	323.40	4.45	18.34	I	C	SP	Pdf
KBA	104.310	319.53	4.45	18.34	I	C	SP	Pdf
STU	106.344	322.18	1.89	7.68	E	C	LP	Pdf
YKM	106.713	37.56	1.89	7.68	I	C	SP	Pdf
LHD	107.040	38.10	1.89	7.68	I	C	SP	Pdf
LDM	107.113	37.84	1.89	7.68	I	C	SP	Pdf
CLX	107.322	38.03	1.89	7.68	I	C	SP	Pdf
BNG	107.673	275.14	1.89	7.68	I	C	SP	Pdf
GRC	110.694	322.56	1.89	7.68	I	C	SP	Pdf
FFC	111.236	27.73	1.89	7.68	I	C	SP	Pdf

Table 238. Station data for event 145 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ALI	117.033	315.10	1.88	7.63	I	C	LP	Pdf
JCT	125.661	50.09	1.86	7.57	E	C	LP	PKP
OTT	129.241	20.04	1.86	7.54	I	C	SP	PKP
MNT	129.832	18.29	1.85	7.52	I	C	SP	PKP
WES	133.360	18.08	1.84	7.46	E	C	LP	PKP
BLA	134.047	30.09	1.83	7.43	I	C	LP	PKP
GIE	143.287	89.06	1.72	6.99	I	C	LP	PKP
PEL	144.778	154.68	1.68	6.84	I	C	LP	PKP
UPA	152.083	67.39	1.50	6.07	E	C	LP	PKP
RDJ	156.584	204.68	1.30	5.29	I	C	LP	PKP
ARE	157.019	130.93	1.30	5.29	I	C	SP	PKP
BOG	158.622	73.05	1.22	4.93	I	C	LP	PKP
SDV	160.063	58.15	1.17	4.73	I	C	SP	PKP
TOV	160.283	54.61	1.17	4.73	I	C	SP	PKP
CAR	162.075	47.49	1.07	4.33	I	C	SP	PKP
ITR	163.323	244.31	1.02	4.12	I	C	SP	PKP
CUM	164.031	41.03	0.96	3.90	I	C	SP	PKP
SOB1	165.294	238.72	0.91	3.69	I	C	SP	PKP
TRN	165.544	32.37	0.85	3.46	I	C	SP	PKP
GUV	166.670	45.23	0.80	3.23	I	C	SP	PKP

Table 239. Station data for event 146.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KNA	10.630	188.78	13.44	74.69	I	D	SP	P
PMG	17.097	105.18	12.41	62.94	I	C	SP	P
ISQ	17.796	150.99	12.28	61.83	I	C	SP	P
MBL	18.926	211.99	10.63	49.74	I	D	SP	P
RAB	21.676	88.32	9.93	45.43	E	C	LP	P
MAN	21.787	334.89	9.90	45.30	I	C	SP	P
NAU	22.507	218.52	9.77	44.54	I	D	SP	P
GUA	23.497	37.55	9.61	43.64	E	C	LP	P
BAG	23.564	335.72	9.61	43.58	I	C	SP	P
SZP	24.644	336.62	9.47	42.81	I	C	SP	P
KLG	26.832	197.32	9.26	41.67	I	D	SP	P
KLB	28.839	202.86	9.01	40.28	I	D	SP	P
HNR	29.559	99.93	8.92	39.81	I	C	LP	P
MUN	29.804	204.86	8.89	39.63	I	D	SP	P
ADE	30.606	166.59	8.83	39.33	I	D	SP	P
QIZ	31.469	320.39	8.76	38.96	I	C	SP	P
QZH	32.081	339.45	8.72	38.76	I	C	SP	P
YOU	33.389	152.39	8.64	38.30	I	D	SP	P
bfd	33.711	162.44	8.62	38.20	I	D	SP	P
RIV	34.391	148.58	8.57	37.98	I	C	SP	P
SSE	37.136	346.79	8.42	37.17	I	C	LP	P
PVC	39.060	111.81	8.31	36.59	I	C	SP	P
CHTO	39.134	308.36	8.30	36.57	I	C	SP	P
SHK	39.549	2.90	8.28	36.44	I	C	SP	P
MAJO	42.130	9.34	8.13	35.70	E	C	LP	P
MAT	42.130	9.34	8.13	35.70	I	C	SP	P
XAN	43.990	333.98	8.03	35.19	I	C	SP	P
DL2	44.612	350.20	8.00	35.06	I	C	SP	P
TIY	45.845	340.02	7.93	34.68	I	C	SP	P
BJI	46.872	344.97	7.87	34.37	I	C	LP	P
LZH	48.024	330.80	7.80	34.03	I	C	SP	P
CN2	48.958	355.21	7.72	33.66	I	C	SP	P
MDJ	49.570	359.20	7.67	33.42	I	C	SP	P
AFI	57.515	103.12	7.05	30.39	E	C	LP	P
POO	60.531	294.53	6.82	29.29	I	C	SP	P
NDI	61.244	306.60	6.76	29.02	I	C	SP	P
WMQ	62.123	326.23	6.69	28.69	I	C	SP	P
KSH	66.955	316.79	6.29	26.85	I	C	SP	P
HON	74.841	66.40	5.71	24.19	E	C	LP	P
SBA	75.068	172.54	5.69	24.12	I	D	SP	P
MHI	77.890	308.65	5.52	23.32	I	C	SP	P
IR2	84.541	306.44	5.01	21.06	I	C	SP	P
SPA	84.854	180.00	4.99	20.97	I	D	SP	P
MSL	90.861	306.27	4.69	19.68	I	D	SP	P
COL	91.160	24.98	4.69	19.66	E	C	LP	P
KSR	99.863	242.76	4.45	18.63	I	C	SP	P
DAG	106.522	352.94	1.89	7.80	I	C	SP	PKP
HFS	107.579	332.04	1.89	7.80	I	D	SP	PKP
EDM	109.643	34.95	1.89	7.80	I	D	SP	PKP
COP	109.806	327.89	1.89	7.80	E	C	LP	PKP

Table 239. Station data for event 146 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BNG	112.161	272.67	1.89	7.80	I	D	SP	PKP
TRI	112.170	317.46	1.89	7.80	I	D	SP	PKP
OGA	113.636	319.27	1.89	7.78	I	D	SP	PKP
GRC	118.503	322.00	1.88	7.74	I	D	SP	PKP
LGR	124.230	319.06	1.87	7.70	I	D	SP	PKP
MNT	134.698	23.80	1.82	7.52	I	D	SP	PKP
ARE	149.456	135.15	1.57	6.49	I	D	SP	PKP
SJG	159.311	50.24	1.20	4.94	I	D	SP	PKP

Table 240. Station data for event 163.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CGP	4.508	322.27	13.82	91.63	I	C	SP	P
GUA	19.225	62.22	10.46	49.16	I	C	LP	P
TRT	19.376	229.94	10.44	49.05	I	C	SP	P
ANP	20.988	344.76	10.04	46.56	E	C	LP	P
HKC	21.589	324.59	9.91	45.83	I	D	SP	P
PMG	24.200	125.87	9.51	43.47	I	C	LP	P
KGM	24.282	264.12	9.49	43.38	I	D	SP	P
WB2	25.567	164.88	9.37	42.67	I	C	SP	P
NST	28.928	293.81	8.98	40.54	I	D	SP	P
CTAO	30.913	143.93	8.80	39.54	I	C	LP	P
CHTO	31.103	298.84	8.79	39.47	E	D	LP	P
MAT	33.018	15.97	8.65	38.75	I	C	LP	P
MAJO	33.018	15.97	8.65	38.75	E	C	LP	P
HNR	35.338	113.69	8.51	38.01	I	C	LP	P
MRWA	35.642	197.38	8.49	37.92	I	C	SP	P
BAL	36.749	195.63	8.44	37.61	I	D	SP	P
KLB	37.422	193.72	8.39	37.36	I	D	SP	P
NWAO	38.825	193.81	8.31	36.96	I	C	SP	P
STK	38.939	160.73	8.31	36.93	I	C	SP	P
BRS	40.319	144.04	8.22	36.50	I	C	SP	P
CAN	44.802	154.81	7.98	35.28	I	C	SP	P
NOU	46.718	126.87	7.87	34.70	I	C	SP	P
HYB	49.449	288.69	7.68	33.74	I	D	SP	P
MHI	69.424	306.87	6.09	26.13	I	C	SP	P
HON	73.823	69.32	5.78	24.70	I	C	LP	P
AVY	81.914	250.20	5.17	21.95	I	C	SP	P
MAW	85.077	200.34	4.97	21.06	I	C	SP	P
SBA	85.356	172.27	4.95	21.00	I	C	LP	P
INK	88.833	21.55	4.73	19.99	I	C	SP	P
KEV	89.082	339.98	4.72	19.96	I	C	LP	P
MBC	90.682	12.72	4.70	19.87	I	C	SP	P
NAI	90.781	268.80	4.69	19.85	E	C	LP	P
NUR	92.074	331.13	4.67	19.74	E	C	LP	P
MLR	94.602	316.25	4.59	19.38	I	C	SP	P
PVL	95.624	314.06	4.55	19.21	I	C	SP	P
KDZ	95.804	312.55	4.54	19.19	I	C	SP	P
DAG	96.244	352.60	4.53	19.15	E	C	LP	P
DAG	96.244	352.60	4.53	19.15	I	C	SP	P
MMB	97.003	312.76	4.52	19.09	I	C	SP	P
MTD	97.024	253.76	4.52	19.09	I	C	SP	P
VTS	97.158	313.84	4.52	19.08	I	C	SP	P
RSNT	98.169	24.50	4.50	18.98	E	C	LP	P
COP	99.754	328.62	4.46	18.80	E	C	LP	P
BUL	99.974	250.50	4.45	18.79	E	C	LP	P
BUL	99.974	250.50	4.45	18.79	I	D	SP	P
PNT	100.952	37.88	4.45	18.78	I	C	SP	Pdf
KHC	101.631	322.18	4.45	18.78	I	C	SP	Pdf
NEW	102.876	38.26	4.45	18.78	I	C	SP	Pdf
EDM	102.982	32.61	4.45	18.78	I	C	SP	Pdf
GDH	106.038	0.38	1.89	7.86	I	C	SP	PKP

Table 240. Station data for event 163 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PTO	119.137	323.14	1.87	7.80	I	C	LP	PKP
OXM	127.743	61.16	1.86	7.73	I	C	SP	PKP
WES	129.960	18.15	1.85	7.70	E	C	LP	PKP
PBJ	132.602	62.53	1.84	7.64	I	C	SP	PKP
COM	135.555	60.99	1.82	7.55	I	C	SP	PKP
UPA	149.756	62.99	1.57	6.50	E	C	LP	PKP
UPA	149.756	62.99	1.57	6.50	E	C	LP	PKP
SJG	153.500	30.15	1.44	5.99	I	C	LP	PKP
ANT	154.542	139.06	1.40	5.83	I	C	LP	PKP
BOG	156.503	66.66	1.32	5.50	I	C	LP	PKP
LPB	160.823	128.35	1.13	4.67	I	C	SP	PKP
TRN	162.226	29.82	1.05	4.38	I	C	SP	PKP

Table 241. Station data for event 176.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality	Direction, and Source of Earth Motion		
MKS	13.252	197.78	13.20	67.88	I	C	SP	P
HKC	17.247	329.58	12.57	61.91	I	C	SP	P
ANP	17.688	354.08	12.47	61.07	I	C	LP	P
QZH	17.971	345.42	12.37	60.25	I	C	SP	P
GZH	18.318	328.89	12.26	59.37	I	C	SP	P
TRT	18.581	215.89	12.26	59.37	I	D	SP	P
GUA	21.882	72.30	9.94	44.24	E	D	LP	P
NST	24.270	291.64	9.53	41.98	I	D	SP	P
WHN	24.477	340.66	9.53	41.98	I	C	SP	P
PSI	24.932	260.25	9.47	41.65	I	D	SP	P
CHG	26.384	297.64	9.33	40.90	I	D	SP	P
KMI	26.464	313.86	9.33	40.90	I	D	LP	P
PMG	28.935	125.09	9.03	39.33	I	C	SP	P
KVG	29.012	109.17	9.03	39.33	I	C	SP	P
WB2	29.281	158.77	8.97	39.02	I	C	SP	P
CD2	29.725	324.16	8.97	39.02	I	C	SP	P
MAJO	31.872	22.79	8.75	37.89	E	D	LP	P
ASPA	32.592	162.10	8.71	37.68	I	C	SP	P
WBN	33.562	174.99	8.65	37.38	I	C	SP	P
LZH	33.654	330.55	8.65	37.38	I	C	LP	P
LZH	33.654	330.55	8.65	37.38	I	C	SP	P
CTA	35.390	141.12	8.53	36.77	I	C	SP	P
CTAO	35.390	141.12	8.53	36.77	I	C	LP	P
GTA	38.238	329.81	8.38	36.02	I	C	SP	P
NWAO	40.632	188.10	8.24	35.33	I	C	LP	P
STK	42.795	157.11	8.10	34.64	I	C	SP	P
ADE	44.604	162.13	8.02	34.25	I	C	SP	P
BRS	44.783	141.88	7.99	34.11	I	C	SP	P
YOU	47.757	151.92	7.81	33.24	I	C	SP	P
CAN	48.902	152.15	7.74	32.90	I	C	SP	P
TOO	49.312	156.90	7.70	32.71	I	C	SP	P
PVC	50.862	120.00	7.58	32.14	I	C	SP	P
NOU	51.449	126.21	7.54	31.95	I	C	SP	P
TAU	54.647	158.66	7.29	30.77	I	C	LP	P
SNZO	67.489	140.53	6.26	26.06	I	C	LP	P
HON	76.627	69.90	5.61	23.19	I	C	LP	P
AVY	79.106	249.14	5.45	22.49	I	D	SP	P
COL	82.719	25.47	5.14	21.15	I	C	LP	P
KEV	85.272	339.69	4.96	20.37	E	N	LP	P
ANTO	85.796	309.49	4.90	20.11	I	D	LP	P
NAI	86.889	268.32	4.83	19.81	I	D	LP	P
NAI	86.889	268.32	4.83	19.81	I	D	SP	P
NUR	87.873	330.70	4.77	19.56	I	C	LP	P
SBA	88.489	171.65	4.75	19.47	I	C	LP	P
CLK	90.583	254.37	4.70	19.26	I	C	SP	P
PVL	90.965	313.59	4.69	19.22	I	D	SP	P
MMB	92.326	312.28	4.66	19.09	I	D	SP	P
VTs	92.496	313.35	4.66	19.09	I	D	SP	P
ATH	93.083	308.74	4.64	19.00	I	D	SP	P
DAG	93.128	351.88	4.64	19.00	I	C	SP	P

Table 241. Station data for event 176 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
GRG	93.439	311.87	4.63	18.96	I	D	SP	P
MTD	93.953	253.68	4.61	18.88	I	C	SP	P
KONO	95.304	332.20	4.56	18.66	E	N	LP	P
COP	95.457	327.93	4.56	18.66	E	C	LP	P
BUL	97.107	250.64	4.53	18.54	I	C	SP	P
SLR	97.891	245.07	4.51	18.45	I	C	SP	P
KBA	97.987	319.61	4.51	18.45	I	D	SP	P
TRI	98.176	318.21	4.51	18.45	I	C	SP	P
GRFO	98.377	322.59	4.49	18.37	E	D	LP	P
STU	99.955	322.25	4.47	18.28	E	C	LP	P
PTO	114.662	321.92	1.88	7.59	E	C	LP	PKP
MNT	125.057	14.65	1.87	7.53	I	D	SP	PKP
WES	128.553	14.03	1.86	7.48	E	C	LP	PKP
TPM	130.484	57.30	1.85	7.46	I	C	SP	PKP
SHA	131.406	37.05	1.85	7.45	I	C	LP	PKP
TACH	150.747	154.81	1.53	6.16	I	C	SP	PKP
PEL	151.293	154.66	1.53	6.16	I	C	SP	PKP
UPA	151.810	54.91	1.50	6.03	I	C	LP	PKP
SJG	152.834	20.44	1.46	5.89	E	C	LP	PKP
BOG	158.738	56.05	1.22	4.89	E	C	LP	PKP
LPB	165.540	129.44	0.85	3.43	E	C	LP	PKP

Table 242. Station data for event 177.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BKB	5.902	35.50	8.64	119.11	I	C	SP	P
MKS	6.014	81.90	8.70	118.29	I	C	SP	P
KGM	12.968	308.14	9.83	84.22	I	C	SP	P
MBL	16.179	158.28	9.57	75.56	I	C	SP	P
IPM	16.354	310.17	9.56	75.23	I	C	SP	P
NAU	16.459	173.43	9.55	75.03	I	C	SP	P
PPR	16.612	18.35	9.54	74.73	I	C	SP	P
DAV	17.804	42.80	9.44	72.77	E	C	LP	P
CGP	18.271	37.81	9.41	72.08	I	D	SP	P
MRWA	23.111	174.41	8.98	65.23	I	C	SP	P
BAG	23.438	17.32	8.94	64.78	E	C	LP	P
WRA	24.488	126.12	8.85	63.55	I	D	SP	P
QIZ	25.226	351.88	8.81	62.99	I	C	SP	P
PIP	25.267	16.03	8.81	62.98	I	C	SP	P
NST	25.356	328.69	8.80	62.91	I	C	SP	P
KHT	25.470	324.67	8.79	62.81	I	C	SP	P
KLB	25.669	171.57	8.78	62.63	I	C	SP	P
MUN	25.866	174.70	8.76	62.40	I	C	SP	P
NWAO	26.913	173.03	8.69	61.58	I	C	SP	P
RKG	28.017	173.77	8.64	60.90	I	C	SP	P
HKC	28.233	1.33	8.62	60.75	I	C	SP	P
CHTO	28.608	330.20	8.60	60.47	E	C	LP	P
GZH	29.005	359.72	8.58	60.18	I	C	SP	P
TATO	31.851	13.84	8.43	58.48	I	C	LP	P
ANP	32.057	13.79	8.41	58.34	I	C	LP	P
KMI	32.748	341.78	8.37	57.88	I	C	LP	P
MOM	34.056	84.63	8.30	57.14	I	D	SP	P
LMG	34.466	96.81	8.28	56.87	I	D	SP	P
CTAO	34.713	116.72	8.27	56.75	E	D	LP	P
CTA	34.713	116.72	8.27	56.75	I	D	SP	P
WHN	36.440	1.25	8.18	55.84	I	C	SP	P
ALOA	36.729	98.99	8.17	55.69	I	D	SP	P
GUMO	36.783	57.72	8.16	55.69	E	D	LP	P
GUA	36.796	57.83	8.16	55.68	I	D	SP	P
SSE	37.707	10.83	8.12	55.20	E	C	LP	P
CD2	37.957	346.33	8.11	55.09	I	C	SP	P
RMQ	39.238	125.11	8.04	54.44	I	D	SP	P
CMS	39.404	133.95	8.03	54.35	I	D	SP	P
BFD	40.722	143.52	7.96	53.68	I	D	SP	P
YOU	42.723	135.72	7.85	52.61	I	D	SP	P
TOO	42.759	141.67	7.85	52.58	I	D	SP	P
BRS	42.887	124.18	7.84	52.51	I	D	SP	P
LZH	42.926	348.50	7.84	52.49	I	C	LP	P
TIY	43.593	358.78	7.80	52.10	I	C	SP	P
CAN	43.717	136.58	7.79	52.02	I	D	SP	P
WAM	44.122	137.70	7.76	51.73	I	D	SP	P
POO	46.117	302.88	7.61	50.35	I	C	SP	P
HHC	46.748	357.99	7.57	49.96	I	C	SP	P
GTA	47.013	345.50	7.55	49.76	I	C	SP	P
MAT	48.323	26.80	7.45	48.92	I	D	SP	P

Table 242. Station data for event 177 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MAJO	48.323	26.80	7.45	48.92	I	C	LP	P
SNY	48.575	10.05	7.43	48.74	I	C	SP	P
NOU	53.519	113.17	7.08	45.71	I	D	SP	P
SNZO	64.520	132.99	6.24	39.16	E	D	LP	P
AVY	65.133	252.06	6.20	38.81	I	D	SP	P
MAW	70.165	198.36	5.84	36.23	I	D	SP	P
NAI	76.629	270.14	5.42	33.27	I	D	LP	P
SBA	76.751	169.95	5.42	33.22	I	D	LP	P
JOZ	79.609	243.31	5.17	31.51	I	D	SP	P
EVA	82.323	244.15	5.00	30.41	I	D	SP	P
SLR	83.079	244.88	4.96	30.10	I	D	SP	P
SLR	83.079	244.88	4.96	30.10	E	D	LP	P
BUL	83.133	250.49	4.95	30.07	I	D	SP	P
HLW	86.232	300.41	4.75	28.73	I	D	SP	P
ANTO	86.771	310.47	4.73	28.58	E	D	LP	P
SUR	89.030	237.71	4.69	28.32	I	D	SP	P
KDZ	92.619	311.41	4.59	27.65	I	D	SP	P
PVL	92.900	312.90	4.58	27.58	I	D	SP	P
MMB	93.826	311.25	4.54	27.37	I	C	SP	P
KEV	94.459	339.60	4.53	27.28	E	C	LP	P
NUR	94.691	330.24	4.53	27.25	E	C	LP	P
BNG	95.369	273.88	4.51	27.18	I	D	SP	P
BCAO	95.380	273.87	4.51	27.18	I	D	SP	P
COP	101.247	325.47	4.44	26.69	E	C	LP	Pdf
DAG	104.880	349.84	4.44	26.69	I	D	SP	Pdf
FFC	123.769	23.89	1.87	10.88	I	D	SP	PKP
TCA	142.731	182.71	1.71	9.98	I	C	SP	PKP
WES	143.621	6.02	1.70	9.88	E	D	LP	PKP
COD	144.424	4.67	1.68	9.79	I	D	SP	PKP
OXM	145.164	64.81	1.66	9.70	I	D	SP	PKP
IIC	145.404	63.81	1.66	9.67	I	D	SP	PKP
III	145.633	66.24	1.65	9.64	I	D	SP	PKP
CYA	145.654	181.12	1.65	9.63	I	D	SP	PKP
TPM	145.823	65.02	1.65	9.61	I	D	SP	PKP
BLA	146.536	20.37	1.63	9.51	E	D	LP	PKP
SHA	148.201	37.06	1.59	9.26	E	D	LP	PKP
PBJ	149.900	67.63	1.54	8.98	I	D	SP	PKP
UPA	166.775	76.71	0.79	4.58	I	D	LP	PKP
CAR	175.605	5.38	0.27	1.57	I	D	SP	PKP

Table 243. Station data for event 178.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KGM	10.878	248.54	9.86	92.15	I	C	SP	P
IPM	12.453	263.65	9.83	85.68	I	C	SP	P
QIZ	13.322	345.07	9.79	83.16	I	C	SP	P
TRT	13.731	183.37	9.76	81.82	I	C	SP	P
PIP	14.026	29.32	9.74	80.83	I	C	SP	P
LOE	16.042	315.47	9.57	76.02	I	C	SP	P
NST	16.154	307.15	9.56	75.80	I	C	SP	P
GZH	16.889	359.69	9.50	74.43	I	C	SP	P
KHT	16.952	301.77	9.50	74.31	I	C	SP	P
ANP	20.492	21.32	9.23	69.35	E	C	LP	P
KMI	21.516	332.68	9.14	67.91	I	C	SP	P
SSE	25.906	15.35	8.75	62.54	I	C	SP	P
CD2	26.302	340.96	8.73	62.23	I	C	SP	P
NAU	28.531	176.01	8.60	60.71	I	C	SP	P
GUA	31.851	74.19	8.42	58.65	I	D	SP	P
PKI	34.128	311.96	8.30	57.26	I	D	SP	P
KKN	34.344	312.17	8.28	57.11	I	D	SP	P
DMN	34.373	311.75	8.28	57.09	I	D	SP	P
WBN	34.483	158.85	8.27	57.03	I	C	SP	P
MOM	34.861	102.39	8.26	56.88	I	D	SP	P
MRWA	35.191	176.12	8.24	56.70	I	C	SP	P
LAT	35.804	110.17	8.21	56.37	I	C	SP	P
HYB	35.889	291.32	8.21	56.34	I	D	SP	P
BAL	36.623	175.28	8.17	55.91	I	C	SP	P
SNY	36.703	12.72	8.16	55.87	I	D	SP	P
PMG	36.958	114.37	8.15	55.77	I	D	SP	P
KLB	37.698	173.97	8.11	55.36	I	C	SP	P
MAT	37.838	33.37	8.11	55.32	I	D	SP	P
MUN	37.948	176.17	8.10	55.26	I	C	SP	P
NWAO	38.969	174.92	8.05	54.75	I	C	SP	P
CN2	39.006	13.85	8.05	54.73	I	D	SP	P
RKG	40.084	175.40	7.99	54.09	I	C	SP	P
ALOA	40.228	113.70	7.98	54.03	I	D	SP	P
POO	40.501	291.40	7.97	53.94	I	D	SP	P
NDI	40.953	307.61	7.95	53.68	I	D	SP	P
CTA	41.450	129.70	7.92	53.38	I	D	SP	P
STK	46.330	146.29	7.59	50.36	I	D	SP	P
RMQ	47.120	135.01	7.53	49.81	I	D	SP	P
KSH	47.319	320.16	7.52	49.66	I	D	SP	P
CMS	48.500	142.34	7.43	48.91	I	D	SP	P
BRS	50.533	133.11	7.28	47.58	I	D	SP	P
COO	51.809	136.97	7.19	46.78	I	D	SP	P
YOU	51.981	142.98	7.17	46.67	I	D	SP	P
TOO	52.720	148.00	7.13	46.30	I	D	SP	P
CAN	53.066	143.49	7.11	46.11	I	D	SP	P
WAM	53.603	144.35	7.07	45.76	I	D	SP	P
KHI	57.698	306.69	6.77	43.33	I	D	SP	P
NOU	59.051	120.40	6.67	42.54	I	D	SP	P
PVC	59.109	114.73	6.66	42.51	I	D	SP	P
NAI	76.854	267.27	5.41	33.23	I	D	SP	P

Table 243. Station data for event 178 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
CLK	80.606	253.07	5.11	31.17	I	D	SP	P
SUF	83.380	332.39	4.92	29.95	I	D	SP	P
MTD	83.992	252.47	4.87	29.60	I	D	SP	P
JOZ	85.160	241.86	4.80	29.14	I	D	SP	P
LSZ	87.030	254.39	4.72	28.59	I	C	SP	P
BUL	87.241	249.53	4.71	28.55	I	D	SP	P
EVA	87.668	243.19	4.71	28.51	I	D	SP	P
SLR	88.273	244.05	4.70	28.47	I	D	SP	P
SBA	88.695	170.22	4.70	28.44	I	D	SP	P
PRY	89.145	242.96	4.69	28.38	I	C	SP	P
BNG	94.387	274.91	4.53	27.36	I	D	SP	P
BCAO	94.398	274.91	4.53	27.36	I	D	SP	P
SUR	95.441	238.12	4.51	27.23	I	D	SP	P
SSF	98.908	319.41	4.44	26.76	I	D	SP	P
BGF	99.501	319.08	4.44	26.76	I	D	SP	P
PNT	108.143	33.40	1.89	11.05	I	D	SP	PKP
EDM	108.975	27.61	1.89	11.05	I	D	SP	PKP
WDC	110.820	42.49	1.89	11.05	I	D	SP	PKP
SES	111.906	28.91	1.89	11.03	I	D	SP	PKP
FFC	112.596	21.36	1.89	11.02	I	D	SP	PKP
TUL	130.009	31.17	1.85	10.79	I	D	SP	PKP
WES	131.562	4.72	1.84	10.75	I	D	LP	PKP
SHA	137.987	28.26	1.78	10.42	E	D	LP	PKP
OXM	138.757	51.54	1.77	10.36	I	D	SP	PKP
IIC	138.823	50.60	1.77	10.36	I	D	SP	PKP
III	139.444	52.52	1.77	10.31	I	D	SP	PKP
VHO	142.233	51.65	1.72	10.06	I	D	SP	PKP
RTCV	154.305	176.12	1.39	8.11	I	D	SP	PKP
RTCB	154.658	175.52	1.38	8.02	I	D	SP	PKP
UPA	160.212	40.93	1.13	6.60	I	D	SP	PKP
CAR	163.505	1.28	0.97	5.63	I	D	SP	PKP
ATB	165.445	280.41	0.86	5.02	I	D	SP	PKP
LPB	169.521	171.85	0.63	3.68	I	D	SP	PKP

Table 244. Station data for event 186.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	6.198	335.57	13.65	87.32	I	D	LP	P
DAV	6.198	335.57	13.65	87.32	I	D	SP	P
MTN	14.465	168.30	12.75	68.91	I	C	SP	P
MAN	14.905	332.39	12.68	68.08	I	D	SP	P
KNA	17.057	177.99	12.29	64.07	I	C	SP	P
SZP	17.734	335.19	12.21	63.33	I	D	SP	P
WRA	22.068	164.34	9.80	45.80	I	C	SP	P
ANP	24.485	345.37	9.45	43.76	E	D	LP	P
KGM	24.830	271.74	9.42	43.60	I	C	SP	P
NAU	26.812	206.68	9.24	42.53	I	C	SP	P
CTA	27.773	141.19	9.13	41.91	I	C	SP	P
SNG	28.039	282.60	9.09	41.68	E	C	LP	P
NST	31.053	298.68	8.77	39.95	I	C	SP	P
SHK	33.218	6.83	8.63	39.17	I	D	SP	P
CHG	33.449	303.00	8.62	39.10	I	C	SP	P
CHTO	33.449	303.00	8.62	39.10	I	C	LP	P
KMI	34.018	315.94	8.58	38.91	I	C	SP	P
KMI	34.018	315.94	8.58	38.91	I	C	LP	P
STK	35.472	160.08	8.50	38.44	I	C	SP	P
NWAO	35.670	195.86	8.48	38.38	I	C	SP	P
NWAO	35.670	195.86	8.48	38.38	E	C	LP	P
MAT	36.172	13.78	8.45	38.22	I	D	SP	P
MAJO	36.172	13.78	8.45	38.22	E	N	LP	P
MAT	36.172	13.78	8.45	38.22	I	D	LP	P
BJI	39.961	345.64	8.24	37.07	I	D	SP	P
BJI	39.961	345.64	8.24	37.07	I	D	LP	P
YOU	40.260	153.70	8.22	36.97	I	C	SP	P
LZH	41.207	329.59	8.17	36.74	I	C	LP	P
LZH	41.207	329.59	8.17	36.74	I	C	SP	P
CAN	41.410	153.90	8.16	36.67	I	C	SP	P
WAM	42.097	154.71	8.12	36.46	I	C	SP	P
NOU	44.165	124.54	8.01	35.86	I	C	SP	P
PKI	48.471	306.40	7.74	34.50	I	C	SP	P
KKN	48.667	306.60	7.72	34.42	I	C	SP	P
DMN	48.731	306.30	7.72	34.39	I	C	SP	P
HYB	51.254	291.22	7.52	33.38	I	C	SP	P
QUE	64.584	302.85	6.48	28.30	I	C	SP	P
QUE	64.584	302.85	6.48	28.30	I	C	LP	P
HON	74.438	68.38	5.73	24.78	E	C	LP	P
AVY	81.396	250.75	5.20	22.38	I	C	SP	P
SBA	81.857	172.33	5.16	22.20	I	C	SP	P
SBA	81.857	172.33	5.16	22.20	I	C	LP	P
MAW	82.088	200.58	5.15	22.13	I	C	SP	P
BHD	84.015	303.13	5.03	21.61	I	D	SP	P
COL	86.200	25.17	4.86	20.85	E	C	LP	P
SPA	91.399	180.00	4.68	20.05	E	C	LP	P
JER	91.783	301.67	4.67	19.99	I	C	SP	P
KEV	92.544	340.01	4.65	19.89	I	C	LP	P
ANTO	93.226	309.87	4.63	19.82	E	C	LP	P
MLR	97.549	316.09	4.51	19.27	I	C	SP	P

Table 244. Station data for event 186 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SLR	99.504	244.29	4.46	19.05	E	C	LP	P
DAG	99.742	352.67	4.45	19.02	I	C	SP	P
VAY	100.733	312.40	4.44	18.96	I	C	SP	Pdf
ZOBO	158.202	133.54	1.25	5.25	I	C	SP	PKP

Table 245. Station data for event 189.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
TLE	3.612	245.38	14.23	45.56	I	D	SP	P
DAV	15.278	316.79	12.90	40.33	I	C	LP	P
MKS	16.559	265.61	12.72	39.66	I	C	SP	P
PAA	19.481	97.18	12.10	37.38	I	D	SP	P
GUA	19.632	26.49	12.10	37.38	I	C	LP	P
TRT	23.554	260.24	9.70	29.12	I	C	SP	P
MAN	23.846	321.80	9.62	28.86	I	C	SP	P
HNR	24.300	103.75	9.55	28.63	E	C	LP	P
BRS	28.103	147.10	9.20	27.49	I	D	SP	P
ADE	30.779	175.73	8.83	26.30	I	D	SP	P
KOU	31.955	123.12	8.76	26.07	I	C	SP	P
TATO	32.203	334.65	8.76	26.07	E	C	LP	P
ANP	32.373	334.87	8.72	25.94	I	C	LP	P
NWAO	33.615	209.34	8.66	25.75	E	C	LP	P
PVC	34.360	115.66	8.59	25.53	I	C	SP	P
NOU	34.546	124.27	8.59	25.53	I	C	SP	P
MAJO	40.505	2.68	8.24	24.42	E	C	LP	P
NST	40.627	299.79	8.24	24.42	I	C	SP	P
SEO	42.330	349.26	8.13	24.07	E	C	LP	P
AFI	52.332	104.31	7.46	21.98	E	C	LP	P
HON	69.313	65.52	6.11	17.85	E	C	LP	P
COL	87.873	24.49	4.78	13.88	E	C	LP	P
NAI	99.128	268.05	4.48	12.99	E	C	LP	P
KBA	114.871	320.66	1.88	5.42	I	C	SP	PKP
BNG	117.693	272.83	1.88	5.40	I	C	SP	PKP
GRC	121.015	324.47	1.87	5.39	I	D	SP	PKP
UPA	144.338	80.40	1.70	4.90	I	C	LP	PKP
SDV	153.080	78.55	1.46	4.21	I	D	SP	PKP

Table 246. Station data for event 194.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SLKI	2.005	141.45	11.87	117.81	I	C	SP	P
TLE	2.804	74.37	12.75	108.23	I	C	SP	P
WB2	14.094	163.10	12.68	70.81	I	D	SP	P
PMG	17.214	101.09	12.16	64.93	E	D	LP	P
ASPA	17.558	168.18	12.06	63.90	I	D	SP	P
ALOA	20.489	102.25	10.03	48.34	I	D	SP	P
CTA	20.806	132.35	9.97	47.97	I	D	LP	P
CTA	20.806	132.35	9.97	47.97	I	D	SP	P
NAU	21.308	219.69	9.87	47.34	I	C	SP	P
GUA	24.710	36.67	9.40	44.47	E	D	LP	P
KLG	25.551	197.32	9.33	44.01	I	C	SP	P
RMQ	26.778	140.33	9.22	43.36	I	D	SP	P
STK	27.548	158.38	9.12	42.78	I	D	SP	P
NWAO	28.950	202.65	8.93	41.69	E	C	LP	P
NWAO	28.950	202.65	8.93	41.69	I	C	SP	P
ADE	29.524	165.45	8.87	41.35	I	D	SP	P
HNR	29.771	97.76	8.85	41.24	I	D	SP	P
HNR	29.771	97.76	8.85	41.24	I	D	LP	P
BRS	30.035	136.64	8.83	41.12	I	D	SP	P
TATO	32.277	345.37	8.67	40.25	E	C	LP	P
PSI	32.352	285.30	8.67	40.23	I	C	SP	P
YOU	32.510	150.99	8.66	40.18	I	D	SP	P
BFD	32.682	161.31	8.65	40.12	I	D	SP	P
CAN	33.651	151.34	8.59	39.80	I	D	SP	P
TOO	34.061	157.79	8.57	39.66	I	D	SP	P
WAM	34.308	152.38	8.55	39.58	I	D	SP	P
KOU	36.046	116.34	8.45	39.00	I	D	SP	P
KHT	37.618	304.24	8.35	38.48	I	C	SP	P
SSE	38.232	347.69	8.32	38.28	I	C	LP	P
DZM	38.432	117.66	8.30	38.22	I	D	SP	P
TAU	39.428	159.90	8.26	37.95	E	D	LP	P
TAU	39.428	159.90	8.26	37.95	I	D	SP	P
CHTO	39.588	309.86	8.25	37.90	E	C	LP	P
CHG	39.588	309.86	8.25	37.90	I	C	SP	P
KMI	41.076	320.75	8.17	37.47	E	C	LP	P
BJI	47.946	345.66	7.77	35.35	E	C	LP	P
LZH	48.895	331.67	7.69	34.95	I	C	SP	P
TCW	52.414	138.37	7.41	33.49	I	D	SP	P
PKI	54.767	310.23	7.23	32.57	I	C	SP	P
KKN	54.978	310.38	7.21	32.50	I	C	SP	P
DMN	55.017	310.10	7.21	32.49	I	C	SP	P
HYB	56.087	295.82	7.13	32.06	I	C	SP	P
AFI	57.641	102.35	7.01	31.49	I	D	LP	P
QUE	70.483	305.00	5.99	26.51	I	C	SP	P
SBA	73.915	172.42	5.76	25.39	I	D	SP	P
HON	75.700	66.19	5.64	24.82	E	D	LP	P
NAI	93.072	268.38	4.63	20.17	I	C	SP	P
BUL	98.455	248.61	4.48	19.50	I	C	SP	P
ANTO	99.624	309.25	4.46	19.39	E	C	LP	P
DAG	107.678	352.81	1.89	8.09	I	C	SP	PKP

Table 246. Station data for event 194 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BNG	111.810	272.21	1.89	8.09	I	C	SP	PKP
MBO	146.614	286.40	1.65	7.04	I	C	SP	PKP
UPA	150.588	83.11	1.54	6.58	I	C	SP	PKP

Table 247. Station data for event 207.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MKS	8.131	316.03	13.91	54.82	I	C	SP	P
ISQ	16.803	126.22	12.58	47.66	I	D	SP	P
PPR	21.740	342.75	10.05	36.20	I	C	SP	P
MUN	22.299	200.32	9.85	35.37	I	D	SP	P
NWAO	22.852	197.30	9.76	34.99	I	D	SP	P
KGM	25.330	299.79	9.42	33.61	I	C	SP	P
STK	25.622	146.11	9.42	33.61	I	D	SP	P
ADE	26.734	154.61	9.33	33.25	I	C	SP	P
CMS	27.851	139.73	9.18	32.64	I	D	SP	P
BFD	30.281	151.70	8.86	31.37	I	D	SP	P
SNG	30.438	305.65	8.86	31.37	I	C	SP	P
BRS	30.583	125.81	8.86	31.37	I	D	SP	P
YOU	31.309	141.01	8.79	31.10	I	D	SP	P
TOO	32.033	148.58	8.75	30.94	I	D	SP	P
CAN	32.382	141.83	8.72	30.82	I	D	SP	P
RIV	32.802	137.59	8.68	30.67	I	D	SP	P
WAM	32.903	143.14	8.68	30.67	I	D	SP	P
HNR	34.290	90.42	8.59	30.31	E	D	LP	P
TATO	36.078	354.38	8.50	29.96	E	C	LP	P
NST	36.367	316.65	8.47	29.85	I	C	SP	P
BDT	38.242	317.17	8.38	29.50	I	C	SP	P
KOU	38.720	108.93	8.35	29.38	I	D	SP	P
CHG	39.410	318.82	8.29	29.15	I	C	SP	P
DZM	40.931	110.81	8.21	28.84	I	D	SP	P
NOU	40.972	111.16	8.21	28.84	I	C	SP	P
PVC	42.255	104.08	8.13	28.54	I	D	SP	P
WHN	42.726	346.24	8.13	28.54	I	D	SP	P
NJ2	43.370	352.23	8.07	28.31	I	D	SP	P
NJ2	43.370	352.23	8.07	28.31	I	D	SP	P
SHK	45.988	8.67	7.94	27.81	I	D	SP	P
SHK	45.988	8.67	7.94	27.81	E	D	LP	P
XAN	47.505	341.68	7.85	27.47	I	D	SP	P
MAT	49.007	13.98	7.74	27.05	I	D	SP	P
LZH	51.092	337.80	7.58	26.45	I	D	SP	P
BJI	51.598	351.23	7.54	26.30	E	D	LP	P
SNY	52.729	358.54	7.46	26.00	I	D	SP	P
PKI	54.432	315.78	7.30	25.40	I	C	SP	P
KKN	54.659	315.90	7.30	25.40	I	C	SP	P
DMN	54.664	315.61	7.30	25.40	I	C	SP	P
CN2	54.683	0.28	7.30	25.40	I	D	SP	P
GTA	55.540	336.31	7.22	25.10	I	D	SP	P
MDJ	55.644	3.86	7.22	25.10	I	D	SP	P
NDI	60.906	311.74	6.80	23.55	I	C	SP	P
AVY	74.655	253.33	5.75	19.75	I	D	SP	P
SPA	78.922	180.00	5.45	18.68	I	D	SP	P
NAI	88.113	269.08	4.77	16.28	E	D	LP	P
NAI	88.113	269.08	4.77	16.28	I	D	SP	P
MTD	90.172	252.97	4.71	16.07	I	D	SP	P
EVA	90.425	243.02	4.70	16.03	I	D	SP	P
SLR	91.292	243.61	4.68	15.96	E	D	LP	P

Table 247. Station data for event 207 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
BPI	91.415	243.13	4.68	15.96	I	D	SP	P
PRY	91.729	242.29	4.68	15.96	I	C	SP	P
BUL	92.227	249.11	4.67	15.93	I	D	SP	P
BFS	92.333	242.17	4.66	15.89	I	D	SP	P
KSR	92.478	243.20	4.66	15.89	I	C	SP	P
SWZ	93.529	241.58	4.63	15.79	I	C	SP	P
COL	98.769	25.54	4.48	15.26	E	D	LP	P
ANTO	98.826	308.90	4.48	15.26	E	C	LP	P
BNG	107.097	271.24	1.89	6.38	I	D	SP	Pdf
FUR	114.106	317.87	1.88	6.36	I	D	SP	PKP
JAS1	116.031	53.24	1.88	6.34	I	D	SP	PKP
CVF	116.761	312.09	1.88	6.34	I	D	SP	PKP
BSF	117.119	318.21	1.88	6.34	I	D	SP	PKP
HAU	117.367	318.48	1.88	6.34	I	D	SP	PKP
EDM	117.521	35.31	1.88	6.33	I	D	SP	PKP
LPG	117.687	315.66	1.88	6.33	I	D	SP	PKP
FRF	118.175	313.54	1.88	6.33	I	D	SP	PKP
LMR	118.320	313.31	1.88	6.33	I	D	SP	PKP
LRG	118.401	313.47	1.88	6.33	I	D	SP	PKP
CDR	118.775	313.82	1.88	6.33	I	D	SP	PKP
LBF	119.185	317.84	1.88	6.33	I	D	SP	PKP
LOR	119.185	318.18	1.88	6.33	I	D	SP	PKP
SMF	119.368	317.50	1.88	6.33	I	D	SP	PKP
SSF	119.474	318.03	1.88	6.33	I	D	SP	PKP
AVF	119.651	317.76	1.87	6.32	I	D	SP	PKP
BGF	120.051	317.62	1.87	6.32	I	D	SP	PKP
MZF	120.323	317.30	1.87	6.32	I	D	SP	PKP
TCF	120.550	317.47	1.87	6.32	I	D	SP	PKP
LSF	121.012	317.59	1.87	6.32	I	D	SP	PKP
CAF	121.038	315.98	1.87	6.32	I	D	SP	PKP
RJF	121.301	316.53	1.87	6.32	I	D	SP	PKP
LDF	121.315	320.60	1.87	6.32	I	D	SP	PKP
FLN	121.479	320.89	1.87	6.32	I	D	SP	PKP
LPO	121.706	315.92	1.87	6.31	I	D	SP	PKP
GRR	121.846	320.58	1.87	6.31	I	D	SP	PKP
LFF	121.934	316.32	1.87	6.31	I	D	SP	PKP
MFF	122.002	318.41	1.87	6.31	I	D	SP	PKP
LPF	122.087	320.24	1.87	6.31	I	D	SP	PKP
EPF	122.768	314.26	1.87	6.31	I	D	SP	PKP
ECP	123.492	326.42	1.87	6.31	I	C	SP	PKP
LGR	124.938	314.36	1.87	6.29	I	D	SP	PKP
TOL	126.854	311.79	1.86	6.28	I	C	SP	PKP
CRT	127.297	308.44	1.86	6.28	I	C	SP	PKP
MBO	142.908	279.11	1.72	5.81	I	C	SP	PKP
BLA	145.347	37.27	1.68	5.68	I	D	SP	PKP
ARE	148.018	148.79	1.62	5.45	I	D	SP	PKP
LPB	149.544	154.34	1.56	5.26	I	C	SP	PKP
ZOBO	149.767	154.07	1.56	5.26	I	D	SP	PKP
BDF	152.482	194.65	1.50	5.05	I	D	SP	PKP

Table 248. Station data for event 208.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality	Direction, and Source of Earth Motion		
MKS	5.122	290.90	8.04	125.36	I	D	SP	P
MTN	8.854	130.85	9.67	101.31	I	C	SP	P
KNA	9.674	153.33	9.78	97.32	I	C	SP	P
DAV	14.131	5.29	9.73	80.52	I	C	LP	P
DAV	14.131	5.29	9.73	80.52	I	C	SP	P
MBL	14.640	196.62	9.69	79.13	I	C	SP	P
KKM	15.316	328.14	9.63	77.55	I	C	SP	P
WR2	16.107	143.55	9.56	75.89	I	D	SP	P
NAU	17.544	207.89	9.45	73.32	I	C	SP	P
ASPA	18.906	151.75	9.35	71.37	I	D	SP	P
WBN	19.079	173.65	9.33	71.15	I	D	SP	P
ISQ	20.063	134.02	9.26	69.92	I	D	SP	P
PGP	20.709	350.83	9.21	69.07	I	C	SP	P
PMG	22.760	97.41	9.00	65.90	I	D	LP	P
PMG	22.760	97.41	9.00	65.90	I	D	SP	P
KGM	22.780	292.62	9.00	65.87	I	C	SP	P
MRWA	23.361	198.51	8.94	65.05	I	D	SP	P
BAG	23.620	351.12	8.92	64.69	I	C	SP	P
BAG	23.620	351.12	8.92	64.69	I	C	LP	P
LMG	23.712	96.00	8.91	64.56	I	D	SP	P
KLG	23.726	186.03	8.90	64.54	I	D	SP	P
BAL	24.454	195.92	8.85	63.78	I	D	SP	P
SZP	24.759	351.27	8.83	63.54	I	C	SP	P
CTA	24.928	123.42	8.82	63.41	I	D	SP	P
KLB	25.132	193.18	8.81	63.25	I	D	SP	P
PIP	25.496	351.91	8.79	62.98	I	C	SP	P
MUN	25.887	195.85	8.75	62.56	I	D	SP	P
NWAO	26.534	193.34	8.71	62.06	I	D	SP	P
PSI	27.099	290.14	8.68	61.63	I	C	SP	P
SNG	27.519	300.49	8.65	61.33	I	C	LP	P
STK	29.491	149.04	8.54	60.04	I	D	SP	P
RMQ	30.250	132.50	8.51	59.64	I	D	SP	P
ADE	30.767	156.41	8.48	59.26	I	D	SP	P
HKC	30.829	341.52	8.47	59.22	I	C	LP	P
BSI	31.501	292.63	8.44	58.89	I	C	SP	P
CMS	31.542	143.13	8.44	58.86	I	D	SP	P
NST	32.904	313.51	8.36	57.94	I	C	SP	P
LOE	32.986	317.75	8.35	57.89	I	C	SP	P
BFD	34.263	153.59	8.29	57.16	I	D	SP	P
BDT	34.754	314.30	8.26	56.92	I	C	SP	P
COO	34.874	135.63	8.26	56.87	I	D	SP	P
HNR	35.371	96.29	8.23	56.56	E	D	LP	P
HNR	35.371	96.29	8.23	56.56	I	D	SP	P
CHG	35.855	316.22	8.21	56.35	I	C	LP	P
CHG	35.855	316.22	8.21	56.35	I	C	SP	P
TOO	35.952	150.67	8.21	56.30	I	D	SP	P
CAN	36.128	144.54	8.20	56.21	I	D	SP	P
RIV	36.415	140.64	8.18	56.01	I	D	SP	P
WAM	36.686	145.68	8.16	55.88	I	D	SP	P
KMI	38.259	327.50	8.09	55.07	I	C	LP	P

Table 248. Station data for event 208 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KOU	40.965	113.23	7.95	53.67	I	D	SP	P
SHK	42.136	10.36	7.89	53.08	I	C	SP	P
DZM	43.276	114.71	7.82	52.44	I	D	SP	P
NOU	43.338	115.04	7.81	52.40	I	D	SP	P
PVC	44.189	108.11	7.75	51.81	I	D	SP	P
SEO	44.479	3.05	7.74	51.66	E	C	LP	P
MAT	45.313	15.83	7.67	51.03	I	C	SP	P
TSK	45.553	18.01	7.65	50.86	I	C	SP	P
LZH	47.030	337.27	7.54	49.87	I	C	SP	P
BJI	47.471	351.56	7.51	49.56	I	C	SP	P
BJI	47.471	351.56	7.51	49.56	I	C	LP	P
KOD	49.681	289.75	7.34	48.10	I	C	SP	P
PKI	50.974	314.19	7.25	47.27	I	C	SP	P
KKN	51.197	314.33	7.23	47.15	I	C	SP	P
DMN	51.213	314.02	7.23	47.14	I	C	SP	P
HYB	51.308	298.87	7.23	47.11	I	C	SP	P
VUN	53.826	107.05	7.05	45.66	I	D	SP	P
POO	55.857	297.92	6.90	44.43	I	C	SP	P
BOM	56.901	297.87	6.83	43.84	I	C	SP	P
NDI	57.611	310.38	6.77	43.38	I	C	SP	P
QUE	66.252	307.22	6.11	38.27	I	C	SP	P
MAW	72.834	200.62	5.66	35.03	I	D	SP	P
KHI	74.261	308.28	5.58	34.43	I	C	SP	P
SPA	82.968	180.00	4.96	30.22	I	D	SP	P
EVA	91.503	243.22	4.62	27.94	I	C	SP	P
BPI	92.482	243.40	4.59	27.75	I	C	SP	P
SEK	92.496	241.23	4.59	27.74	I	C	SP	P
PRY	92.854	242.58	4.58	27.65	I	C	SP	P
BUL	92.871	249.42	4.58	27.64	I	C	SP	P
BNG	106.119	272.57	1.89	11.05	I	C	SP	Pdf
DAG	107.567	351.65	1.89	11.05	I	C	SP	Pdf
BSF	113.520	319.31	1.88	11.01	I	C	SP	PKP
LPG	114.180	316.86	1.88	11.00	I	C	SP	PKP
LOR	115.585	319.37	1.88	10.98	I	C	SP	PKP
LBF	115.597	319.04	1.88	10.98	I	C	SP	PKP
SMF	115.792	318.71	1.88	10.98	I	C	SP	PKP
SSF	115.879	319.23	1.88	10.98	I	C	SP	PKP
AVF	116.065	318.99	1.88	10.98	I	C	SP	PKP
BGF	116.470	318.86	1.88	10.97	I	C	SP	PKP
TCF	116.975	318.74	1.88	10.97	I	C	SP	PKP
LSF	117.432	318.88	1.88	10.96	I	C	SP	PKP
CAF	117.516	317.33	1.88	10.96	I	C	SP	PKP
LDF	117.633	321.80	1.88	10.96	I	C	SP	PKP
RJF	117.758	317.88	1.88	10.96	I	C	SP	PKP
FLN	117.788	322.08	1.88	10.96	I	C	SP	PKP
GRR	118.164	321.80	1.87	10.96	I	C	SP	PKP
LPO	118.185	317.30	1.87	10.96	I	C	SP	PKP
LFF	118.399	317.70	1.87	10.96	I	C	SP	PKP
MFF	118.392	319.71	1.87	10.96	I	C	SP	PKP
LPF	118.415	321.48	1.87	10.96	I	C	SP	PKP

Table 248. Station data for event 208 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (')	Quality, Direction, and Source of Earth Motion			
EPF	119.309	315.75	1.87	10.95	I	C	SP	PKP
FFC	119.859	28.90	1.87	10.94	I	D	SP	PKP
ANT	146.210	155.30	1.64	9.58	I	D	SP	PKP
TPZ	149.991	161.15	1.54	8.98	I	D	SP	PKP
ARE	151.887	146.41	1.48	8.62	I	D	SP	PKP
LPB	153.541	152.53	1.42	8.28	I	D	SP	PKP
ATB	169.126	198.86	0.66	3.81	I	D	SP	PKP

Table 249. Station data for event 216.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MTN	11.499	199.05	13.37	72.76	I	D	SP	P
DAV	12.947	313.78	13.16	70.03	I	C	SP	P
DAV	12.947	313.78	13.16	70.03	I	C	LP	P
PMG	14.231	122.00	12.95	67.69	E	C	LP	P
GUA	18.254	32.47	12.45	62.76	I	D	LP	P
CTA	21.165	149.33	10.05	45.90	I	D	SP	P
CTA	21.165	149.33	10.05	45.90	I	C	LP	P
ASPA	21.642	182.62	9.95	45.30	I	D	SP	P
BAG	23.090	322.58	9.69	43.81	I	C	SP	P
BAG	23.090	322.58	9.69	43.81	I	C	LP	P
HNR	25.947	107.69	9.35	41.90	I	C	LP	P
ANP	29.920	335.03	8.88	39.38	I	C	LP	P
QZH	31.058	330.28	8.80	38.93	I	C	SP	P
KOU	34.091	125.03	8.60	37.89	I	C	SP	P
MUN	34.729	208.65	8.56	37.69	I	D	LP	P
NWAO	35.047	206.48	8.54	37.59	I	D	LP	P
SSE	35.344	339.33	8.52	37.50	I	C	LP	P
SHK	36.315	356.82	8.46	37.19	I	C	LP	P
PVC	36.324	117.79	8.46	37.18	I	C	SP	P
DZM	36.583	125.61	8.45	37.12	I	C	SP	P
NOU	36.703	125.96	8.44	37.09	I	C	SP	P
MAJO	38.376	4.22	8.34	36.56	E	N	LP	P
SEO	39.972	350.10	8.25	36.13	E	C	LP	P
CHTO	40.961	301.83	8.20	35.87	I	C	LP	P
CHG	40.961	301.83	8.20	35.87	I	C	SP	P
SNY	44.743	347.91	8.00	34.84	I	C	SP	P
POO	63.404	291.72	6.59	28.08	I	C	SP	P
KSH	67.802	314.22	6.23	26.42	I	C	SP	P
HON	69.416	66.50	6.10	25.83	E	N	LP	P
QUE	72.092	302.46	5.91	24.95	I	C	LP	P
COL	86.328	24.64	4.86	20.33	I	D	LP	P
SPA	88.096	180.00	4.77	19.90	I	D	SP	P
KBS	97.933	350.57	4.50	18.77	I	C	LP	P
KEV	97.954	340.46	4.50	18.76	I	C	LP	P
NAI	98.103	268.45	4.50	18.74	I	D	SP	P
IST	103.274	311.65	4.45	18.53	E	C	LP	Pdf
SLR	104.141	243.01	4.45	18.53	I	D	LP	Pdf
SLR	104.141	243.01	4.45	18.53	I	D	SP	Pdf
SUR	109.161	234.83	1.89	7.76	I	D	LP	PKP
COP	109.374	329.58	1.89	7.76	E	C	LP	PKP
GRF	112.690	324.17	1.89	7.75	I	C	SP	PKP
GOL	113.758	47.09	1.88	7.74	E	D	LP	PKP
JCT	120.975	55.32	1.87	7.68	E	D	LP	PKP
VAL	122.290	335.29	1.87	7.68	E	C	LP	PKP
VHO	127.007	69.89	1.86	7.64	I	D	SP	PKP
PTO	128.984	324.74	1.86	7.61	I	C	LP	PKP
LPA	141.429	162.90	1.75	7.17	E	D	LP	PKP
BAA	141.558	162.04	1.74	7.16	E	C	LP	PKP
ANT	144.538	137.39	1.69	6.94	I	C	LP	PKP
LPB	150.774	129.71	1.54	6.30	I	C	LP	PKP

Table 249. Station data for event 216 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SJG	153.773	50.80	1.43	5.87	I	D	LP	PKP
RDJ	155.279	184.02	1.38	5.64	I	D	SP	PKP

Table 250. Station data for event 219.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAV	3.581	342.67	14.21	56.61	I	C	LP	P
MKS	11.355	219.21	13.51	52.55	I	C	SP	P
BAG	14.014	335.23	13.13	50.49	E	C	LP	P
SZP	15.092	336.71	12.95	49.55	I	C	SP	P
PIP	15.735	338.41	12.86	49.08	I	C	SP	P
GUA	20.538	60.31	10.31	37.29	I	D	LP	P
ANP	21.971	347.49	9.95	35.78	I	C	LP	P
HKC	22.141	327.94	9.95	35.78	I	C	SP	P
WB2	24.632	162.39	9.53	34.05	I	C	SP	P
SNG	26.148	278.81	9.38	33.45	I	C	SP	P
SNG	26.148	278.81	9.38	33.45	I	C	LP	P
SSE	27.781	349.91	9.18	32.64	I	C	LP	P
CTAO	30.447	141.51	8.86	31.37	I	C	LP	P
CHG	30.994	301.22	8.82	31.22	I	C	SP	P
CHTO	30.994	301.22	8.82	31.22	I	C	LP	P
SHK	31.233	9.63	8.82	31.22	I	C	SP	P
KMI	31.379	315.12	8.79	31.10	E	C	LP	P
SEO	33.755	0.45	8.62	30.43	I	C	LP	P
MAT	34.420	16.59	8.59	30.31	I	C	LP	P
MAJO	34.420	16.59	8.59	30.31	I	C	LP	P
HNR	35.635	111.61	8.53	30.08	E	C	LP	P
NWAO	37.447	193.08	8.41	29.62	I	C	LP	P
BJI	37.444	346.73	8.41	29.62	I	C	LP	P
LZH	38.530	329.73	8.35	29.38	I	C	SP	P
BFD	43.222	161.37	8.10	28.42	I	C	SP	P
PVC	46.255	118.72	7.91	27.70	I	C	SP	P
DZM	46.552	125.13	7.91	27.70	I	C	SP	P
STG	49.543	161.12	7.70	26.90	I	C	LP	P
TAU	49.966	160.20	7.66	26.75	I	C	LP	P
NDI	53.097	303.41	7.42	25.85	I	C	SP	P
POO	53.668	290.26	7.38	25.70	I	C	SP	P
BOM	54.694	290.51	7.30	25.40	I	C	SP	P
HON	75.031	69.03	5.71	19.60	I	C	LP	P
COL	84.830	25.28	4.99	17.05	I	C	LP	P
JER	89.338	301.62	4.71	16.07	I	C	SP	P
NAI	89.926	268.73	4.71	16.07	I	C	LP	P
NAI	89.926	268.73	4.71	16.07	I	C	SP	P
KEV	89.941	339.93	4.71	16.07	I	C	LP	P
KBS	91.077	349.88	4.70	16.03	I	C	LP	P
MBC	92.052	12.64	4.67	15.93	I	C	SP	P
HLW	92.803	300.00	4.64	15.82	I	C	LP	P
SPA	93.622	180.00	4.63	15.79	I	C	SP	P
PVL	95.872	313.85	4.55	15.51	I	C	SP	P
MTD	95.885	253.59	4.55	15.51	I	C	SP	P
KDZ	96.013	312.34	4.55	15.51	I	C	SP	P
MMB	97.218	312.52	4.53	15.44	I	D	SP	P
DAG	97.343	352.42	4.52	15.40	E	C	LP	P
KRI	97.772	253.60	4.51	15.37	I	D	SP	P
BUL	98.784	250.29	4.48	15.26	E	C	LP	P
BUL	98.784	250.29	4.48	15.26	I	D	SP	P

Table 250. Station data for event 219 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SLR	99.106	244.66	4.48	15.26	I	D	SP	P
SLR	99.106	244.66	4.48	15.26	I	C	LP	P
RSNT	99.621	24.40	4.47	15.23	I	C	LP	P
COP	100.358	328.32	4.45	15.16	E	C	LP	Pdf
COR	101.554	43.25	4.45	15.16	E	C	LP	Pdf
PTO	119.603	322.29	1.87	6.32	E	C	LP	PKP
JCT	124.177	49.14	1.87	6.30	E	C	LP	PKP
WES	131.374	17.74	1.85	6.23	E	C	LP	PKP
BLA	132.182	29.36	1.84	6.21	I	C	LP	PKP
LNV	145.471	152.96	1.68	5.68	I	C	SP	PKP
STH	148.363	46.23	1.62	5.45	I	D	SP	PKP
ANT	154.131	141.94	1.43	4.81	E	C	LP	PKP
ZOBO	160.813	131.82	1.12	3.77	E	C	LP	PKP
TRN	163.695	29.37	0.96	3.25	I	C	LP	PKP

Figure 86. Azimuthal equidistant map for geographic subdivision, West Indonesia..

FIRST MOTION FM LOCATIONS 1984-1985 WEST INDONESIA

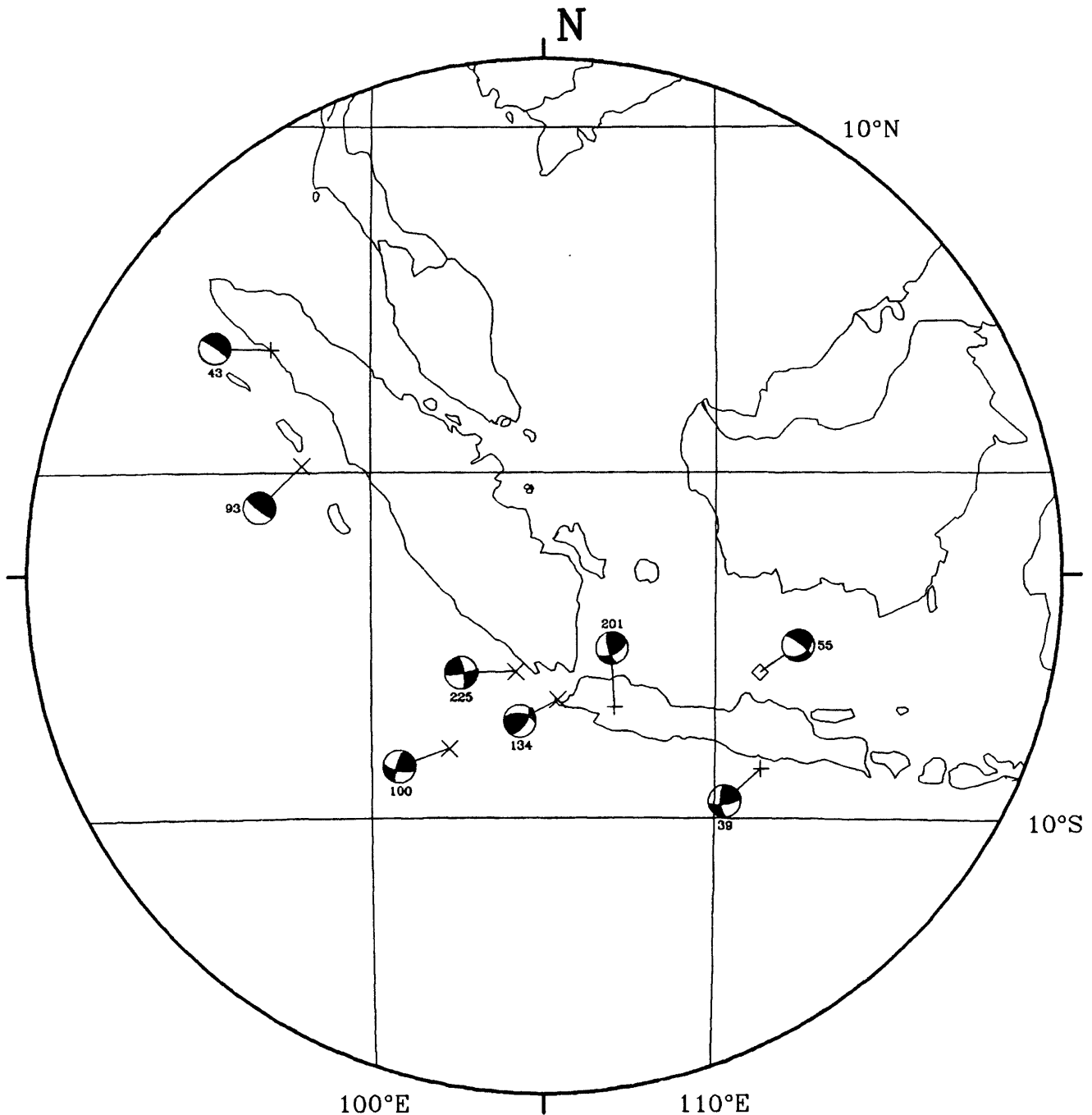


Table 251. Focal mechanism parameters for subdivision,
West Indonesia

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
39	80	73	157	177	68	18	28	38	3	129	62	225
43	305	85	-90	25	5	-90	40	35	50	215	0	125
55	307	78	-55	54	37	-160	25	10	46	252	34	119
93	128	78	90	308	12	90	57	38	33	218	0	128
100	197	75	25	100	66	164	28	60	6	327	61	226
134	35	60	45	278	52	141	52	251	5	155	38	62
201	165	70	35	62	57	156	39	27	8	291	50	191
225	350	75	175	81	85	15	14	307	7	215	74	99

Figure 87. Lower hemisphere focal sphere projection for events 39, 43, 55, and 93.

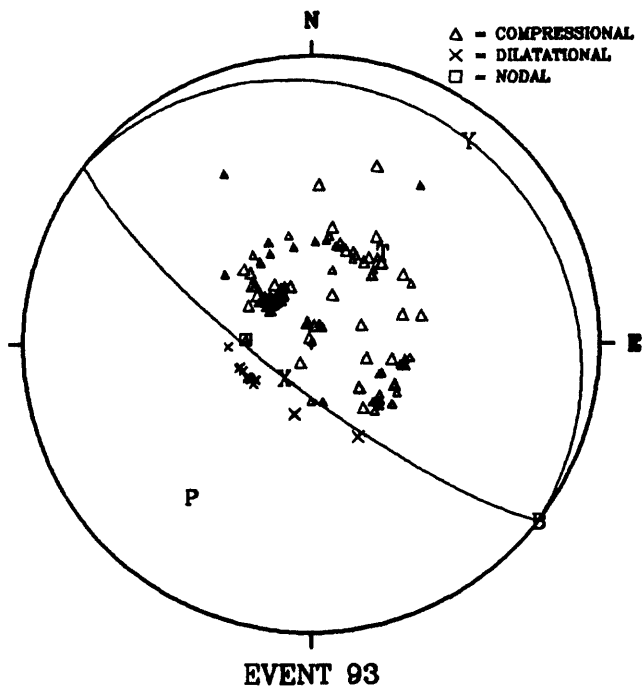
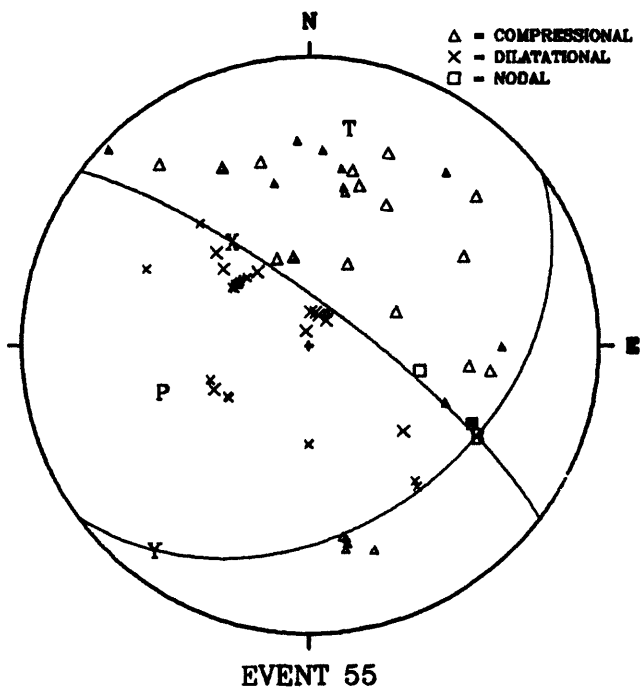
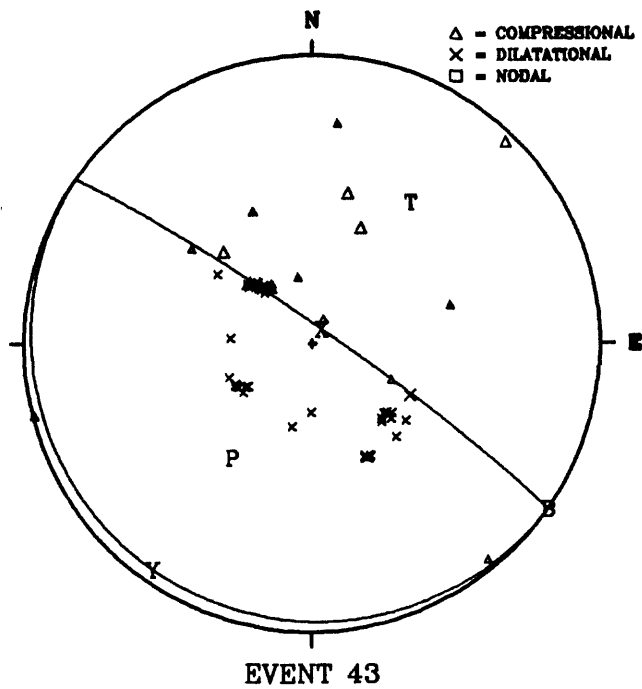
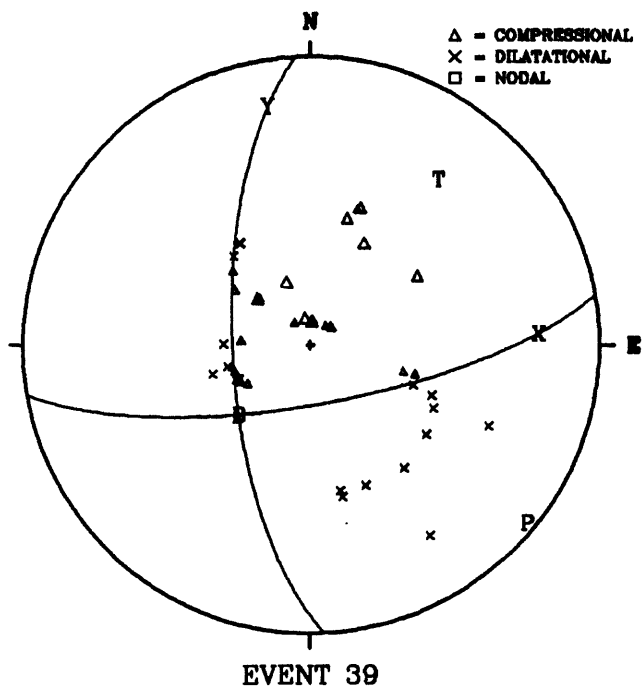


Figure 88. Lower hemisphere focal sphere projection for events 100, 134, 201, and 225.

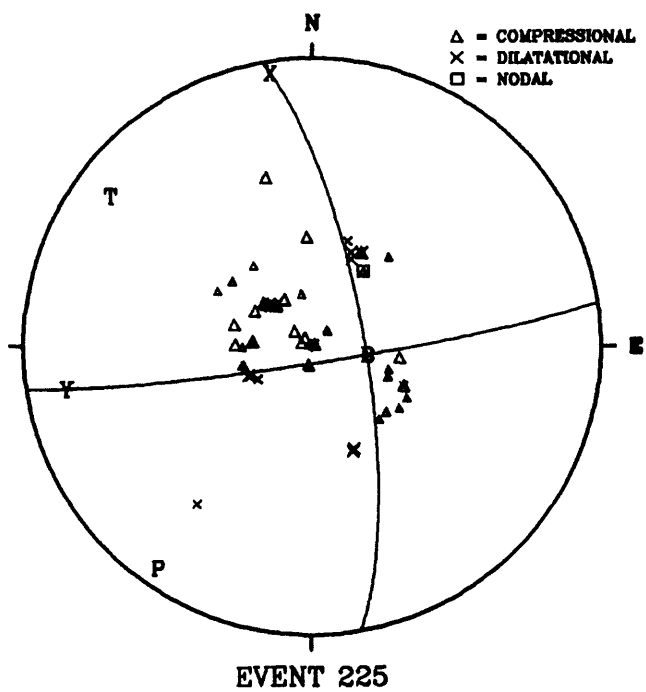
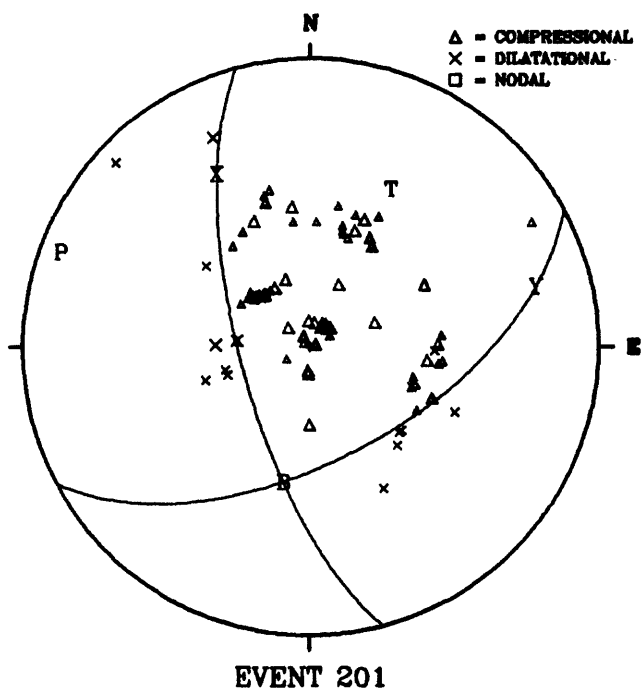
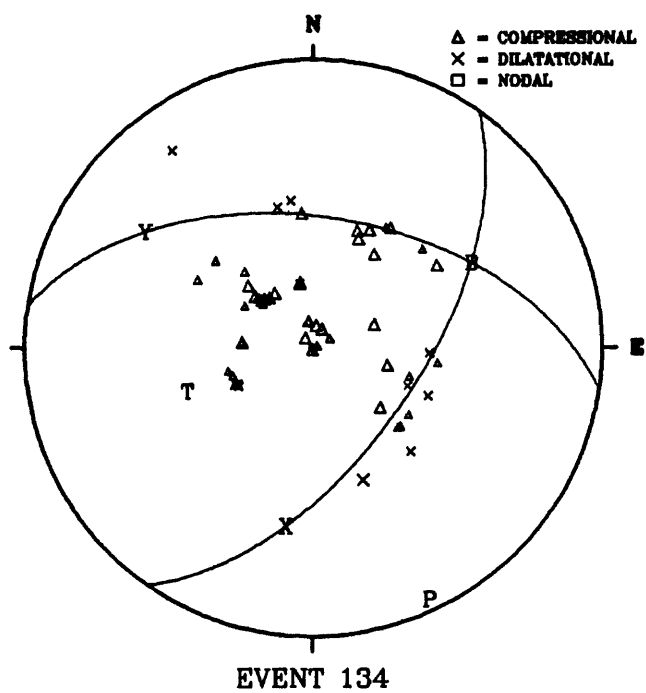
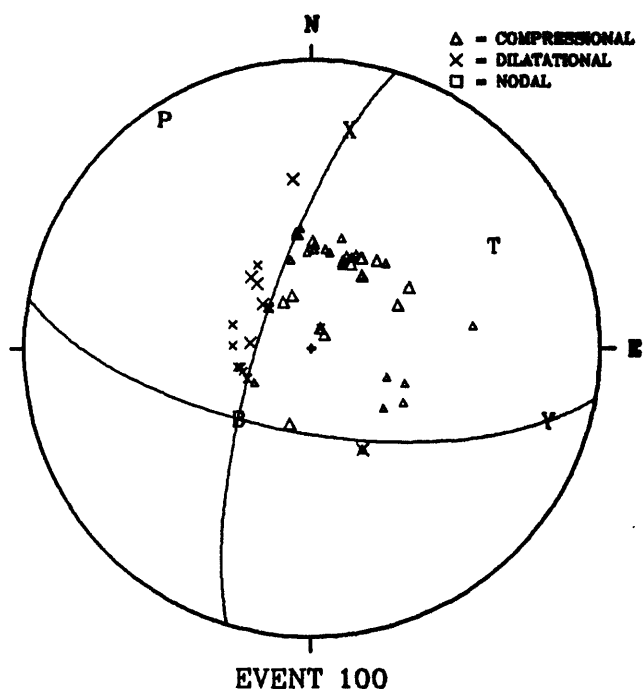


Table 252. Station data for event 39.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MBL	14.960	147.71	12.77	66.85	I	D	SP	P
KNA	18.462	114.39	11.74	57.70	I	D	SP	P
BAL	22.490	167.82	9.76	44.68	I	D	SP	P
WBN	22.692	142.23	9.73	44.50	I	D	SP	P
KLG	24.036	158.21	9.54	43.37	I	D	SP	P
NWAO	24.843	168.13	9.44	42.82	I	D	SP	P
ASPA	26.303	127.44	9.31	42.10	I	D	SP	P
BAG	26.447	20.25	9.30	42.03	E	C	LP	P
SZP	27.469	19.13	9.19	41.47	I	C	SP	P
ISQ	29.788	117.01	8.89	39.78	I	D	SP	P
TATO	34.773	16.29	8.55	38.00	E	C	LP	P
CTA	35.633	112.56	8.50	37.73	I	D	SP	P
GUMO	39.904	56.85	8.25	36.46	E	C	LP	P
PKI	43.825	325.90	8.03	35.36	I	D	SP	P
DMN	44.023	325.64	8.02	35.30	I	D	SP	P
KKN	44.067	325.97	8.02	35.29	I	D	SP	P
NDI	49.553	319.63	7.67	33.54	I	D	SP	P
MAJO	51.480	27.73	7.52	32.78	E	C	LP	P
NOU	54.571	111.21	7.27	31.57	I	D	SP	P
PVC	56.046	105.57	7.15	31.00	I	C	SP	P
QUE	57.458	314.07	7.05	30.51	I	C	SP	P
AVY	62.363	253.17	6.67	28.69	I	D	SP	P
VUN	65.713	105.86	6.40	27.44	I	C	SP	P
SHI	68.097	306.61	6.20	26.51	I	C	SP	P
NAI	74.518	271.05	5.73	24.36	I	D	SP	P
TET	75.973	255.49	5.63	23.92	I	D	SP	P
EVA	79.337	244.63	5.41	22.94	I	D	SP	P
KRI	79.693	254.43	5.37	22.77	I	C	SP	P
SLR	80.110	245.35	5.32	22.54	I	C	SP	P
BPI	80.300	244.89	5.30	22.46	I	C	SP	P
BUL	80.309	251.00	5.30	22.45	I	C	SP	P
SEK	80.484	242.69	5.29	22.38	I	C	SP	P
BFS	81.348	244.06	5.21	22.05	I	D	SP	P
KSR	81.343	245.11	5.21	22.05	I	C	SP	P
BLF	81.675	241.80	5.18	21.92	I	C	SP	P
SUR	85.918	238.03	4.89	20.64	I	C	SP	P
IST	89.835	311.44	4.71	19.82	E	C	LP	P
PVL	93.006	313.00	4.64	19.52	I	C	SP	P
BNG	93.405	273.95	4.63	19.48	I	C	SP	P
MMB	93.837	311.30	4.62	19.42	I	C	SP	P
KEV	96.012	339.61	4.54	19.08	E	C	LP	P
DAG	106.905	349.39	1.89	7.82	I	C	LP	Pdf
DMU	113.349	325.40	1.89	7.80	I	C	SP	PKP
WDC	122.682	46.97	1.87	7.74	I	C	SP	PKP
JAS	125.059	49.36	1.87	7.72	I	C	SP	PKP
FRI	125.910	50.25	1.86	7.72	I	C	SP	PKP
MNT	142.958	5.79	1.72	7.12	I	C	SP	PKP
TUL	143.224	38.20	1.72	7.10	I	C	SP	PKP
WES	146.242	3.55	1.66	6.85	E	C	LP	PKP

Table 253. Station data for event 43.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
IPM	4.007	75.30	13.99	90.54	I	C	SP	P
SNG	4.986	43.84	13.96	86.53	I	C	LP	P
PPI	5.154	140.74	13.96	86.14	I	C	SP	P
CHG	15.255	6.51	12.77	65.95	I	C	SP	P
KMI	22.099	13.60	9.86	44.81	I	C	LP	P
HYB	22.840	308.38	9.73	44.07	I	C	SP	P
PKI	26.366	336.02	9.31	41.75	I	C	SP	P
DMN	26.524	335.53	9.30	41.67	I	C	SP	P
KKN	26.612	336.02	9.29	41.63	I	C	SP	P
MAP	27.462	74.47	9.21	41.16	I	C	SP	P
BAL	38.778	152.54	8.32	36.50	I	D	SP	P
QUE	38.930	316.14	8.32	36.47	I	C	LP	P
MUN	39.721	154.25	8.27	36.23	I	D	SP	P
KLB	40.092	152.18	8.25	36.12	I	D	SP	P
BJI	40.185	22.84	8.24	36.09	E	C	LP	P
NWAO	40.979	153.85	8.20	35.89	E	D	LP	P
NWAO	40.979	153.85	8.20	35.89	I	D	SP	P
WBN	41.037	137.70	8.20	35.88	I	D	SP	P
RKG	41.859	154.98	8.15	35.63	I	D	SP	P
ASPA	44.887	128.96	7.99	34.82	I	D	SP	P
SHI	49.538	306.52	7.68	33.29	I	D	SP	P
CTAO	53.634	118.06	7.35	31.70	E	D	LP	P
STK	54.993	133.33	7.24	31.18	I	D	SP	P
CMS	57.939	130.78	7.03	30.15	I	D	SP	P
BFD	58.494	138.15	6.98	29.94	I	D	SP	P
TOO	60.688	137.08	6.81	29.11	I	D	SP	P
YOU	61.131	132.49	6.77	28.95	I	D	SP	P
CAN	62.060	133.27	6.70	28.60	I	D	SP	P
WAM	62.379	134.20	6.67	28.48	I	D	SP	P
BUL	71.204	247.46	5.97	25.24	I	D	SP	P
EDC	71.953	311.25	5.91	25.01	I	C	SP	P
EVA	72.136	240.85	5.90	24.95	I	D	SP	P
DMK	72.317	312.75	5.88	24.87	I	D	SP	P
NOU	72.349	114.61	5.88	24.86	I	C	SP	P
TLB	72.688	315.63	5.86	24.76	I	C	SP	P
BPI	72.976	241.41	5.84	24.69	I	D	SP	P
SEK	73.809	239.32	5.78	24.42	I	D	SP	P
KSR	73.906	241.95	5.78	24.39	I	D	SP	P
BFS	74.222	240.93	5.75	24.29	I	D	SP	P
PVL	74.440	313.74	5.74	24.20	I	D	SP	P
MAW	74.984	192.91	5.70	24.06	I	D	SP	P
BLF	75.214	238.82	5.69	23.99	I	D	SP	P
MMB	75.249	311.97	5.69	23.98	I	D	SP	P
VTs	75.785	312.94	5.65	23.81	I	D	SP	P
GRM	75.856	234.53	5.64	23.78	I	D	SP	P
CLO	76.436	315.42	5.60	23.62	I	D	SP	P
BNG	78.370	273.77	5.48	23.06	I	D	SP	P
JOS	78.463	318.66	5.47	23.03	I	D	SP	P
KRA	79.060	320.19	5.44	22.87	I	C	SP	P
SUR	80.402	236.50	5.30	22.27	I	D	SP	P

Table 253. Station data for event 43 ... continued.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
VKA	81.237	318.13	5.23	21.95	I	C	SP	P
CER	81.831	235.75	5.17	21.70	I	D	SP	P
TUH	81.938	235.83	5.17	21.67	I	D	SP	P
LJU	82.311	315.81	5.14	21.56	I	D	SP	P
BRG	82.950	320.66	5.11	21.44	I	D	SP	P
KHC	83.102	318.89	5.10	21.40	I	C	SP	P
KBA	83.175	316.81	5.10	21.38	I	D	SP	P
HOF	84.245	320.04	5.03	21.06	I	C	SP	P
OGA	84.759	316.57	5.00	20.92	I	D	SP	P
MUD	85.928	326.20	4.90	20.50	I	C	SP	P
WTS	87.421	321.76	4.80	20.04	I	D	SP	P
GRC	90.167	317.23	4.71	19.67	I	D	SP	P
DAG	92.313	348.03	4.66	19.44	I	C	SP	P
SPA	93.541	180.00	4.63	19.32	I	D	SP	P
DDK	95.158	324.20	4.57	19.05	I	C	SP	P
DLE	95.300	324.13	4.57	19.05	I	C	SP	P
DCN	95.715	324.29	4.55	18.99	I	C	SP	P
LHD	121.026	24.92	1.87	7.69	I	C	SP	PKP
CLX	121.242	24.69	1.87	7.69	I	C	SP	PKP

Table 254. Station data for event 55.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KGM	11.116	313.98	10.30	86.96	I	C	SP	P
SNG	16.715	320.25	9.71	70.33	I	C	LP	P
DAV	19.144	48.27	9.46	66.47	E	C	LP	P
MAP	20.386	38.33	9.35	65.10	I	C	SP	P
MEK	21.830	162.32	9.24	63.63	I	C	SP	P
MRWA	23.721	169.75	9.03	61.13	I	C	SP	P
BAG	23.888	22.47	9.01	60.93	I	C	LP	P
QIZ	24.698	356.70	8.92	59.91	I	C	SP	P
BAL	25.204	169.00	8.88	59.39	I	C	SP	P
CHG	27.307	333.78	8.73	57.87	I	C	LP	P
CHG	27.307	333.78	8.73	57.87	I	C	SP	P
NWAO	27.559	169.16	8.72	57.72	I	C	SP	P
RKG	28.632	170.07	8.65	57.05	I	C	SP	P
GZH	28.763	3.92	8.65	56.97	I	C	SP	P
TZZ	29.787	90.49	8.59	56.35	I	C	SP	P
KMI	31.828	345.18	8.47	55.23	I	C	LP	P
PMG	35.710	98.02	8.26	53.23	E	C	LP	P
CTA	36.806	115.99	8.20	52.70	I	D	SP	P
CTAO	36.806	115.99	8.20	52.70	E	N	LP	P
KOD	37.264	295.17	8.18	52.46	I	D	SP	P
SSE	37.869	13.89	8.15	52.21	E	C	LP	P
NJ2	38.306	10.38	8.13	51.99	I	C	SP	P
ADE	38.501	142.60	8.12	51.89	I	D	SP	P
GUA	38.502	59.87	8.12	51.89	I	C	LP	P
BFD	42.291	141.99	7.92	50.13	I	D	SP	P
SEO	45.533	17.50	7.71	48.38	E	C	LP	P
GTA	46.203	347.66	7.66	47.93	I	C	SP	P
NDI	47.447	318.06	7.57	47.19	I	D	SP	P
HNR	48.327	97.44	7.50	46.63	I	C	LP	P
SNY	48.691	12.22	7.47	46.39	I	C	SP	P
MAJO	49.066	28.85	7.44	46.15	I	C	LP	P
CN2	50.983	13.17	7.29	45.01	I	C	SP	P
NOU	55.648	112.99	6.96	42.45	I	C	SP	P
MHI	64.023	315.07	6.31	37.74	I	D	LP	P
SNZO	66.332	132.65	6.14	36.53	I	D	LP	P
TAB	74.289	312.01	5.60	32.88	I	D	LP	P
AFI	75.966	102.84	5.50	32.22	E	N	LP	P
BUL	81.181	250.58	5.10	29.61	I	D	SP	P
SLR	81.236	244.94	5.09	29.59	I	D	LP	P
SPA	84.252	180.00	4.87	28.21	I	D	SP	P
ELL	86.561	307.29	4.75	27.40	I	D	SP	P
SUR	87.350	237.89	4.72	27.24	I	D	SP	P
DST	88.024	309.94	4.71	27.17	I	D	SP	P
TUH	88.654	236.85	4.70	27.10	I	D	SP	P
EDC	88.718	310.58	4.70	27.10	I	C	SP	P
PSN	88.990	313.91	4.70	27.10	I	C	SP	P
KDZ	90.779	311.60	4.65	26.82	I	D	SP	P
PVL	91.091	313.08	4.64	26.77	I	D	SP	P
ATH	91.615	307.82	4.63	26.65	I	D	SP	P
MMB	91.982	311.41	4.62	26.60	I	C	SP	P

Table 254. Station data for event 55 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
HON	92.719	68.97	4.59	26.43	E	C	LP	P
KEV	93.408	339.69	4.57	26.30	E	C	LP	P
JOS	94.792	318.12	4.53	26.08	I	D	SP	P
COP	99.752	325.40	4.44	25.50	E	D	LP	P
COL	99.841	25.16	4.44	25.50	I	C	LP	P
DAG	104.182	349.52	4.44	25.50	E	C	LP	Pdf
DAG	104.182	349.52	4.44	25.50	I	C	SP	Pdf
EDM	120.379	29.33	1.87	10.46	I	C	SP	PKP
WES	143.486	3.26	1.70	9.49	E	D	LP	PKP
SCP	144.194	11.93	1.69	9.41	E	D	LP	PKP
BLA	146.945	17.30	1.63	9.07	I	D	LP	PKP
SHA	149.217	34.07	1.57	8.73	I	D	LP	PKP
SJG	167.502	348.71	0.75	4.18	I	D	LP	PKP

Table 255. Station data for event 93.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
IFM	5.283	34.49	14.11	56.01	I	C	SP	P
BSI	5.928	332.65	14.08	55.83	I	C	SP	P
SNG	7.398	20.38	13.96	55.11	I	C	LP	P
CHG	18.520	2.74	12.27	46.14	I	C	LP	P
QIZ	22.014	31.12	9.95	35.78	I	C	LP	P
KM1	25.192	10.08	9.47	33.81	I	C	LP	P
PGP	26.275	58.86	9.33	33.25	I	C	SP	P
BAG	27.459	52.97	9.23	32.84	I	C	LP	P
DAV	28.315	75.40	9.11	32.36	I	C	LP	P
PKI	29.788	337.02	8.91	31.57	I	C	SP	P
POO	29.929	308.84	8.91	31.57	I	C	SP	P
DMN	29.941	336.57	8.91	31.57	I	C	SP	P
KKN	30.034	337.01	8.91	31.57	I	C	SP	P
LSA	30.058	347.99	8.91	31.57	I	C	SP	P
CD2	31.021	9.59	8.82	31.22	I	C	SP	P
QZH	31.635	37.44	8.79	31.10	I	C	SP	P
TATO	33.488	40.91	8.65	30.55	I	C	LP	P
ANP	33.651	40.67	8.65	30.55	I	C	LP	P
NDI	34.616	326.67	8.59	30.31	I	C	SP	P
XAN	35.178	15.81	8.56	30.20	I	C	SP	P
LZH	36.110	8.01	8.50	29.96	I	C	SP	P
NWAO	37.589	153.03	8.41	29.62	I	D	LP	P
SSE	37.768	33.43	8.38	29.50	I	C	LP	P
GTA	39.055	2.20	8.32	29.27	I	C	SP	P
TIY	39.623	18.03	8.29	29.15	I	C	SP	P
TIA	39.980	24.32	8.27	29.07	I	C	SP	P
BTO	41.660	13.77	8.18	28.73	I	C	SP	P
QUE	41.986	318.08	8.16	28.65	I	C	LP	P
ASPA	42.132	126.78	8.16	28.65	I	C	SP	P
HHC	42.285	15.30	8.13	28.54	I	C	SP	P
BJI	42.965	20.54	8.10	28.42	I	C	LP	P
TZZ	43.474	97.82	8.07	28.31	I	C	SP	P
KSH	43.961	335.25	8.05	28.23	I	C	SP	P
DL2	44.180	26.63	8.05	28.23	I	C	SP	P
WMQ	44.397	349.31	8.02	28.12	I	C	SP	P
ISQ	45.601	119.70	7.96	27.89	I	C	SP	P
SEO	45.772	32.45	7.94	27.81	I	C	LP	P
DSH	46.670	328.22	7.91	27.70	I	C	SP	P
SHK	47.069	39.88	7.88	27.58	I	C	SP	P
GUMO	48.245	71.95	7.81	27.32	I	C	LP	P
GUA	48.278	72.03	7.78	27.20	E	C	LP	P
SAM	48.431	327.86	7.78	27.20	I	C	SP	P
LAT	49.333	98.90	7.70	26.90	I	C	SP	P
CN2	49.825	25.88	7.66	26.75	I	C	SP	P
PMG	49.824	102.44	7.66	26.75	I	C	LP	P
MHI	50.656	319.40	7.62	26.60	I	C	LP	P
LMG	50.729	101.62	7.62	26.60	I	C	SP	P
CTAO	51.319	116.11	7.54	26.30	I	C	LP	P
CTA	51.319	116.11	7.54	26.30	I	C	SP	P
ADE	51.618	136.92	7.54	26.30	I	C	SP	P

Table 255. Station data for event 93 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
MAJO	51.878	41.34	7.50	26.15	I	C	LP	P
MAT	51.878	41.34	7.50	26.15	I	C	SP	P
STK	52.072	131.98	7.50	26.15	I	C	SP	P
ALOA	53.093	102.98	7.42	25.85	I	C	SP	P
CMS	55.103	129.49	7.26	25.25	I	C	SP	P
CAN	59.136	132.26	6.96	24.14	I	C	SP	P
WAM	59.425	133.22	6.92	23.99	I	C	SP	P
COO	59.545	126.09	6.92	23.99	I	C	SP	P
TAB	60.573	314.67	6.84	23.70	I	C	LP	P
NAI	61.236	268.45	6.80	23.55	I	D	SP	P
TAU	61.518	140.68	6.76	23.40	I	C	LP	P
HNR	62.363	100.69	6.68	23.11	I	C	LP	P
LEN	63.461	316.49	6.60	22.82	E	C	LP	P
YAK	66.145	15.72	6.39	22.05	I	C	SP	P
MTD	67.550	251.83	6.26	21.58	I	D	SP	P
KOU	67.905	112.22	6.22	21.44	I	C	SP	P
KRI	69.428	252.03	6.10	21.00	I	D	SP	P
HLW	69.787	301.77	6.07	20.90	I	C	LP	P
NOU	70.168	113.73	6.07	20.90	I	C	SP	P
BUL	70.779	248.67	5.99	20.61	I	D	SP	P
ANTO	71.058	312.36	5.99	20.61	I	C	LP	P
EVA	71.316	241.99	5.96	20.50	I	D	SP	P
SLR	71.893	242.91	5.92	20.36	I	D	SP	P
MAW	71.929	193.42	5.92	20.36	I	D	LP	P
BFS	73.403	241.93	5.82	20.00	I	D	SP	P
VIR	73.519	240.71	5.82	20.00	I	D	SP	P
OBN	73.904	328.36	5.78	19.85	I	C	LP	P
BLF	74.270	239.75	5.75	19.75	I	D	SP	P
GRM	74.663	235.41	5.75	19.75	I	D	SP	P
MLR	77.359	316.69	5.55	19.03	I	C	SP	P
PVL	77.403	314.22	5.55	19.03	I	D	SP	P
ATH	77.536	308.81	5.55	19.03	I	C	SP	P
THE	78.556	311.38	5.48	18.78	I	C	SP	P
VTS	78.722	313.39	5.48	18.78	I	C	SP	P
SUR	79.314	237.12	5.41	18.54	I	D	SP	P
BNG	79.497	274.44	5.41	18.54	I	C	SP	P
BCAO	79.508	274.44	5.41	18.54	E	N	LP	P
DEV	79.526	316.64	5.41	18.54	I	D	SP	P
SNZO	80.133	131.92	5.36	18.36	I	C	LP	P
WEL	80.177	131.88	5.36	18.36	E	C	LP	P
KJF	81.343	335.36	5.22	17.86	I	C	LP	P
JOS	81.566	318.96	5.22	17.86	I	C	SP	P
SUF	81.582	333.72	5.22	17.86	I	C	SP	P
NUR	81.689	331.37	5.22	17.86	I	C	LP	P
PSZ	81.902	318.32	5.18	17.72	I	C	SP	P
KRA	82.202	320.46	5.18	17.72	I	C	SP	P
KEV	83.314	340.64	5.08	17.37	I	C	LP	P
ZST	83.795	318.34	5.05	17.26	I	C	SP	P
UPP	85.002	330.03	4.99	17.05	I	C	SP	P
PRU	85.650	319.97	4.96	16.94	I	C	SP	P

Table 255. Station data for event 93 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KMR	85.763	318.01	4.90	16.73	I	C	LP	P
SBA	85.784	168.58	4.90	16.73	I	C	SP	P
BRG	86.102	320.82	4.90	16.73	I	C	SP	P
KHC	86.209	319.06	4.90	16.73	I	C	SP	P
RMP	86.376	311.70	4.86	16.59	I	C	LP	P
BHG	86.581	317.62	4.86	16.59	I	C	SP	P
WET	86.667	319.04	4.86	16.59	I	C	SP	P
BRN	86.677	322.33	4.86	16.59	I	C	SP	P
CLL	86.726	321.22	4.86	16.59	I	C	SP	P
APO	86.916	330.49	4.83	16.49	E	C	LP	P
HFS	86.996	330.08	4.83	16.49	E	C	LP	P
SLL	87.211	330.41	4.83	16.49	E	C	LP	P
COP	87.344	325.57	4.80	16.38	E	C	LP	P
HOF	87.382	320.18	4.80	16.38	I	C	SP	P
MOX	87.565	320.50	4.80	16.38	E	C	LP	P
GRF	87.777	319.54	4.77	16.28	I	C	SP	P
GRA1	87.777	319.54	4.77	16.28	I	C	SP	P
GRFO	87.781	319.54	4.77	16.28	I	C	LP	P
OGA	87.801	316.70	4.77	16.28	I	C	SP	P
OSS	88.401	316.51	4.75	16.21	E	C	LP	P
HAM	88.708	323.29	4.75	16.21	I	C	SP	P
VDL	88.862	316.30	4.73	16.14	E	C	LP	P
SAX	88.959	317.06	4.73	16.14	E	C	LP	P
KONO	89.034	329.48	4.73	16.14	I	C	LP	P
STU	89.081	318.58	4.73	16.14	I	C	LP	P
LLS	89.192	316.67	4.73	16.14	E	C	LP	P
CVF	89.246	312.37	4.73	16.14	I	C	SP	P
TMA	89.271	315.91	4.71	16.07	E	C	LP	P
SLE	89.541	317.57	4.71	16.07	E	C	LP	P
ZUL	89.610	317.28	4.71	16.07	E	C	LP	P
MMK	89.903	315.85	4.71	16.07	E	C	LP	P
SPA	90.196	180.00	4.71	16.07	I	C	SP	P
AFI	90.237	103.82	4.71	16.07	I	C	LP	P
DIX	90.288	315.89	4.70	16.03	E	C	LP	P
CDF	90.354	318.22	4.70	16.03	I	C	SP	P
BSF	90.687	317.64	4.70	16.03	I	C	SP	P
HAU	90.983	317.82	4.70	16.03	I	C	SP	P
WLF	91.069	319.49	4.70	16.03	E	C	LP	P
LRG	91.080	313.27	4.70	16.03	I	C	SP	P
DBN	91.604	321.95	4.68	15.96	E	C	LP	P
DOU	92.061	319.96	4.67	15.93	E	C	LP	P
UCC	92.175	320.67	4.67	15.93	E	C	LP	P
LBF	92.629	316.86	4.66	15.89	I	C	SP	P
LOR	92.694	317.15	4.66	15.89	I	C	LP	P
SMF	92.741	316.53	4.66	15.89	I	C	SP	P
SSF	92.946	316.96	4.64	15.82	I	C	SP	P
GRC	93.226	317.21	4.64	15.82	I	C	SP	P
TCF	93.889	316.25	4.61	15.72	I	C	SP	P
EKA	96.203	325.67	4.55	15.51	E	C	LP	P
TOL	99.138	310.34	4.48	15.26	I	C	LP	P

Table 255. Station data for event 93 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
COL	99.884	23.27	4.47	15.23	I	C	LP	P
FBAL	100.017	23.20	4.45	15.16	I	C	LP	Pdf
SFS	101.314	307.16	4.45	15.16	I	C	SP	Pdf
HON	102.931	68.18	4.45	15.16	E	C	LP	Pdf
GDH	108.073	349.71	1.89	6.38	E	C	LP	Pdf
EDM	120.710	21.36	1.87	6.32	I	C	SP	PKP
GAC	133.940	353.68	1.83	6.17	I	C	SP	PKP
WES	136.543	348.52	1.80	6.08	E	C	LP	PKP
LPA	138.812	210.56	1.78	6.01	I	C	LP	PKP
LTX	144.067	33.37	1.70	5.75	I	C	SP	PKP
JCT	145.099	27.52	1.68	5.68	I	C	SP	PKP
SHA	148.728	10.27	1.59	5.35	I	C	LP	PKP
UPA	170.566	345.14	0.56	1.89	E	C	LP	PKP

Table 256. Station data for event 100.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SNG	15.155	353.77	12.95	49.55	I	D	LP	P
MKS	17.320	81.90	12.48	47.17	I	C	SP	P
NST	23.603	354.89	9.68	34.67	I	C	SP	P
BDT	25.277	352.71	9.42	33.61	I	C	SP	P
CHG	26.832	353.04	9.28	33.04	I	C	LP	P
DAV	27.659	57.82	9.23	32.84	I	C	LP	P
QIZ	27.870	15.50	9.18	32.64	I	C	SP	P
PGP	28.295	41.14	9.11	32.36	I	C	SP	P
NWAO	28.428	152.83	9.11	32.36	I	C	SP	P
NWAO	28.428	152.83	9.11	32.36	I	D	LP	P
BAG	30.276	36.77	8.86	31.37	I	C	LP	P
KMI	32.914	0.81	8.68	30.67	I	C	LP	P
ASPA	34.085	120.86	8.62	30.43	I	C	SP	P
QZH	36.398	25.49	8.47	29.85	I	C	SP	P
TATO	37.745	29.24	8.41	29.62	I	C	LP	P
ANP	37.934	29.09	8.38	29.50	I	C	LP	P
CD2	38.701	2.07	8.35	29.38	I	C	SP	P
XAN	42.271	8.24	8.13	28.54	I	C	SP	P
NJ2	42.854	20.90	8.10	28.42	I	C	SP	P
SSE	42.885	24.14	8.10	28.42	I	C	SP	P
ND1	43.736	327.46	8.07	28.31	I	D	SP	P
LZH	43.863	1.86	8.05	28.23	I	C	SP	P
CTAO	44.209	110.55	8.05	28.23	I	C	SP	P
TIY	46.446	11.15	7.91	27.70	I	C	SP	P
GTA	47.210	357.42	7.88	27.58	I	C	SP	P
GUA	47.446	63.46	7.85	27.47	I	C	LP	P
DL2	50.008	19.75	7.66	26.75	I	C	SP	P
CAN	50.615	129.59	7.62	26.60	I	C	SP	P
SEO	50.866	25.36	7.58	26.45	I	C	LP	P
QUE	50.893	319.84	7.58	26.45	I	D	LP	P
WMQ	53.227	346.87	7.42	25.85	I	C	SP	P
SNY	53.284	19.82	7.38	25.70	I	C	SP	P
CN2	55.669	20.20	7.22	25.10	I	C	SP	P
MAJO	55.679	34.93	7.22	25.10	I	C	LP	P
MAT	55.679	34.93	7.22	25.10	I	C	SP	P
MHI	59.599	320.51	6.92	23.99	I	D	LP	P
ARO	62.187	287.47	6.72	23.26	I	D	SP	P
NOU	63.168	110.88	6.64	22.96	I	C	SP	P
MAW	65.105	195.55	6.47	22.34	I	C	LP	P
NAI	65.516	272.24	6.43	22.20	I	D	SP	P
TET	67.402	255.87	6.26	21.58	I	D	SP	P
MTD	69.289	255.11	6.10	21.00	I	D	SP	P
KRI	71.171	254.97	5.99	20.61	I	D	SP	P
BUL	71.979	251.45	5.92	20.36	I	D	SP	P
BFS	73.498	244.37	5.82	20.00	I	D	SP	P
SUR	78.563	238.62	5.48	18.78	I	C	SP	P
ANTO	79.673	312.89	5.41	18.54	I	D	LP	P
BNG	84.398	275.26	5.02	17.16	I	D	SP	P
BCAO	84.409	275.25	5.02	17.16	E	D	LP	P
KDZ	85.596	312.92	4.96	16.94	I	C	SP	P

Table 256. Station data for event 100 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PVL	86.104	314.35	4.90	16.73	I	D	SP	P
VTS	87.379	313.47	4.80	16.38	I	D	SP	P
KEV	92.389	340.31	4.66	15.89	E	C	LP	P
KONO	98.180	329.17	4.51	15.37	E	C	LP	P
FBAL	105.750	24.56	1.89	6.38	I	C	LP	Pdf
EDM	126.485	25.81	1.86	6.29	I	D	SP	PKP
LTX	147.687	45.57	1.62	5.45	E	C	LP	PKP

Table 257. Station data for event 134.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PSI	11.327	324.56	13.38	73.16	I	D	SP	P
LOE	24.153	351.24	9.53	42.98	I	D	SP	P
DAV	24.240	56.19	9.52	42.92	I	C	LP	P
MAP	24.959	47.76	9.44	42.44	I	C	SP	P
CHTO	26.075	345.82	9.34	41.88	I	D	SP	P
BAG	27.331	33.02	9.22	41.25	I	C	LP	P
WBN	27.962	136.34	9.16	40.92	I	D	SP	P
SZP	28.210	31.46	9.12	40.71	I	C	SP	P
NWAO	28.366	158.84	9.09	40.52	I	D	LP	P
KMI	31.658	355.28	8.75	38.74	E	C	LP	P
KOD	32.528	300.74	8.69	38.42	I	C	SP	P
TATO	35.059	25.85	8.54	37.63	I	C	LP	P
ANP	35.254	25.71	8.53	37.57	I	C	LP	P
HYB	35.743	312.28	8.50	37.42	I	C	SP	P
SSE	40.400	21.01	8.23	36.04	I	C	LP	P
PMG	41.351	96.69	8.18	35.80	I	C	SP	P
CTA	41.746	112.77	8.16	35.68	I	D	SP	P
SEO	48.315	22.95	7.78	33.78	I	C	LP	P
CAN	49.085	131.81	7.71	33.48	I	C	SP	P
WAM	49.375	132.90	7.69	33.37	I	C	SP	P
BGA	49.387	92.42	7.69	33.36	I	D	SP	P
COO	49.565	124.83	7.68	33.29	I	C	SP	P
PAA	49.687	92.64	7.67	33.25	I	D	SP	P
MAJO	52.762	33.17	7.42	32.05	I	C	LP	P
MHI	60.642	318.20	6.81	29.14	I	C	SP	P
NOU	60.692	111.77	6.81	29.12	I	D	SP	P
PVC	62.170	106.49	6.69	28.57	I	C	SP	P
SNZO	70.083	131.47	6.04	25.61	E	C	LP	P
TAB	70.617	314.08	6.01	25.46	I	C	LP	P
MTD	72.725	254.54	5.86	24.76	I	C	SP	P
EVA	74.916	244.43	5.71	24.08	I	D	SP	P
BUL	75.438	250.97	5.67	23.94	I	C	SP	P
SLR	75.633	245.22	5.66	23.88	E	C	LP	P
BPI	75.857	244.77	5.64	23.79	I	C	SP	P
SEK	76.206	242.56	5.62	23.68	I	D	SP	P
VIR	76.880	242.80	5.58	23.51	I	D	SP	P
BFS	76.964	244.01	5.57	23.49	I	D	SP	P
HLW	79.671	301.85	5.38	22.64	I	C	SP	P
ANTO	81.108	311.95	5.24	22.01	I	C	LP	P
AFI	81.428	103.05	5.21	21.86	E	C	LP	P
ISK	84.170	312.37	5.03	21.08	I	C	SP	P
EDC	84.887	311.45	4.99	20.90	I	C	SP	P
DMK	85.299	312.87	4.97	20.81	I	C	SP	P
JMB	86.293	313.31	4.87	20.36	I	D	SP	P
MLR	87.384	316.17	4.80	20.06	I	C	SP	P
PVL	87.449	313.76	4.79	20.05	I	C	SP	P
BNG	87.458	274.73	4.79	20.04	I	C	SP	P
BCAO	87.469	274.73	4.79	20.04	I	C	LP	P
PLD	87.585	312.67	4.79	20.02	I	C	SP	P
MMB	88.205	312.03	4.76	19.90	I	D	SP	P

Table 257. Station data for event 134 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KNT	88.745	311.50	4.73	19.77	I	C	SP	P
VTS	88.771	312.96	4.73	19.76	I	C	SP	P
GRG	89.081	311.24	4.72	19.72	I	C	SP	P
DEV	89.550	316.15	4.71	19.68	I	C	SP	P
TRI	95.878	315.24	4.54	18.97	I	C	SP	P
KBA	96.245	316.60	4.53	18.92	I	C	SP	P
RMP	96.426	311.28	4.53	18.91	I	C	SP	P
KBS	97.136	348.78	4.53	18.90	E	C	LP	P
COP	97.133	325.25	4.53	18.90	E	C	LP	P
CTI	97.369	315.51	4.52	18.88	I	C	SP	P
GRFO	97.755	319.18	4.51	18.81	E	C	LP	P
HON	98.428	69.47	4.49	18.74	E	C	LP	P
DAG	103.898	348.69	4.45	18.56	I	D	SP	Pdf
DAG	103.898	348.69	4.45	18.56	E	C	LP	Pdf
GDH	115.948	351.83	1.88	7.72	I	C	LP	PKP
GDH	115.948	351.83	1.88	7.72	I	C	SP	PKP
BLA	149.083	9.18	1.58	6.51	I	C	LP	PKP
SHA	152.859	26.39	1.47	6.02	I	C	LP	PKP
VHO	155.881	62.10	1.35	5.54	I	C	SP	PKP
SJG	165.958	325.17	0.85	3.50	E	C	LP	PKP
UPA	174.514	64.36	0.35	1.41	I	C	SP	PKP
BOG	177.963	193.13	0.13	0.53	E	C	LP	PKP

Table 258. Station data for event 201.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
PPI	9.244	313.42	13.22	81.98	I	D	SP	P
BKB	11.274	60.69	13.01	77.08	I	C	SP	P
SNG	15.392	335.04	12.43	68.59	I	D	LP	P
SNG	15.392	335.04	12.43	68.59	I	D	SP	P
PCT	22.154	345.27	9.71	46.69	I	C	SP	P
MEK	22.438	152.26	9.67	46.40	I	D	SP	P
KNA	22.979	114.39	9.59	45.95	I	D	SP	P
NST	23.448	342.93	9.53	45.54	I	C	SP	P
CHG	26.770	342.64	9.21	43.63	I	C	LP	P
CHG	26.770	342.64	9.21	43.63	I	C	SP	P
PIP	28.380	27.86	8.99	42.32	I	C	SP	P
GZH	30.405	11.42	8.79	41.20	I	C	SP	P
KMI	32.093	352.55	8.68	40.57	E	C	LP	P
QZH	33.555	19.10	8.59	40.07	I	C	SP	P
TATO	34.627	23.39	8.53	39.72	I	C	LP	P
ANP	34.825	23.27	8.52	39.65	I	C	LP	P
SHIO	35.485	335.90	8.48	39.43	I	C	LP	P
PMG	39.716	96.41	8.23	38.09	I	C	SP	P
CTA	40.154	113.02	8.21	37.94	I	C	SP	P
CTAO	40.154	113.02	8.21	37.94	I	C	LP	P
PKJ	40.164	329.42	8.21	37.94	I	C	SP	P
ADE	40.321	138.29	8.20	37.88	I	D	SP	P
DMN	40.349	329.12	8.19	37.87	I	C	SP	P
KKN	40.409	329.47	8.19	37.86	I	C	SP	P
MOM	40.453	85.08	8.19	37.84	I	C	SP	P
POO	41.391	308.12	8.14	37.60	I	D	SP	P
GUMO	42.660	61.51	8.08	37.24	I	C	LP	P
GUA	42.678	61.60	8.08	37.24	I	C	LP	P
ALOA	42.903	97.68	8.06	37.16	I	C	SP	P
RAB	44.929	89.04	7.95	36.56	I	C	LP	P
NDI	45.607	322.22	7.91	36.34	I	C	SP	P
GTA	46.549	352.22	7.85	36.04	I	C	SP	P
BTO	47.320	3.03	7.81	35.80	I	C	SP	P
DL2	47.509	15.40	7.80	35.74	I	C	SP	P
CAN	47.708	132.41	7.78	35.66	I	D	SP	P
BGA	47.762	92.05	7.78	35.63	I	D	SP	P
SHK	47.762	28.78	7.77	35.63	I	C	SP	P
SHK	47.762	28.78	7.77	35.63	I	C	LP	P
BRS	47.829	120.87	7.77	35.60	I	C	SP	P
SEO	47.952	21.33	7.76	35.54	I	C	LP	P
WAM	48.016	133.52	7.75	35.52	I	D	SP	P
SNY	50.765	15.89	7.54	34.37	I	C	SP	P
MAT	52.118	31.82	7.43	33.81	I	C	SP	P
MAJO	52.118	31.82	7.43	33.81	I	C	LP	P
HNR	52.338	96.58	7.41	33.72	E	C	LP	P
CN2	53.110	16.56	7.35	33.40	I	C	SP	P
MDJ	55.120	19.46	7.20	32.62	I	C	SP	P
KOU	56.919	109.97	7.06	31.95	I	C	SP	P
AVY	58.849	252.14	6.92	31.22	I	D	SP	P
DZM	59.065	111.51	6.90	31.13	I	D	SP	P

Table 258. Station data for event 201 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
NOU	59.093	111.79	6.90	31.12	I	C	SP	P
PVC	60.546	106.41	6.78	30.54	I	C	SP	P
NAI	70.285	271.11	6.00	26.72	I	D	LP	P
NAI	70.285	271.11	6.00	26.72	I	D	SP	P
KRI	76.093	254.41	5.60	24.82	I	D	SP	P
BUL	76.879	250.97	5.56	24.60	I	D	SP	P
HLW	81.185	301.56	5.20	22.94	I	C	SP	P
ANTO	82.490	311.63	5.12	22.55	I	C	LP	P
SPA	83.160	180.00	5.08	22.36	E	C	LP	P
ELL	83.921	308.03	5.03	22.15	I	C	SP	P
HRT	85.040	311.96	4.96	21.79	I	C	SP	P
YLV	85.200	311.66	4.94	21.73	I	C	SP	P
IZM	86.329	309.19	4.84	21.26	I	C	SP	P
KGT	86.716	311.21	4.81	21.15	I	D	SP	P
PSN	86.758	314.51	4.81	21.13	I	C	SP	P
VRI	88.233	316.43	4.74	20.79	I	C	SP	P
BUC	88.381	314.91	4.73	20.77	I	C	SP	P
KDZ	88.396	312.09	4.73	20.77	I	C	SP	P
MLR	88.696	315.95	4.72	20.72	I	C	SP	P
PVL	88.801	313.54	4.72	20.72	I	C	SP	P
BNG	89.090	274.55	4.72	20.69	I	C	SP	P
BCAO	89.101	274.54	4.72	20.69	I	D	LP	P
OUR	89.186	310.62	4.71	20.68	I	C	SP	P
MMB	89.585	311.82	4.71	20.66	I	C	SP	P
SRS	89.608	311.34	4.71	20.65	I	C	SP	P
THE	90.000	310.79	4.70	20.62	I	C	SP	P
KNT	90.133	311.30	4.70	20.61	I	C	SP	P
LIT	90.277	310.21	4.70	20.62	I	C	SP	P
GRG	90.473	311.04	4.70	20.62	I	C	SP	P
SKO	91.335	311.94	4.67	20.50	I	C	SP	P
KEV	92.990	339.92	4.63	20.29	I	C	LP	P
KRA	93.401	319.84	4.62	20.25	I	C	SP	P
VKA	95.603	317.83	4.55	19.92	I	C	SP	P
KSP	95.793	320.41	4.54	19.90	I	C	SP	P
HON	97.009	69.39	4.52	19.79	E	C	LP	P
KMR	97.053	317.53	4.52	19.79	I	C	LP	P
TRI	97.205	315.16	4.52	19.77	I	C	SP	P
BRG	97.281	320.37	4.51	19.77	I	C	SP	P
KBA	97.548	316.53	4.51	19.74	I	D	SP	P
CLL	97.887	320.79	4.50	19.72	I	C	SP	P
COP	98.273	325.22	4.49	19.64	I	C	SP	P
MOX	98.756	320.11	4.47	19.59	I	C	SP	P
GRFO	99.013	319.15	4.47	19.56	E	C	LP	P
KONO	99.696	329.28	4.45	19.48	E	C	LP	P
CDF	101.634	317.91	4.44	19.43	I	D	SP	Pdf
BSF	101.987	317.33	4.44	19.43	I	D	SP	Pdf
LPG	102.127	314.95	4.44	19.43	I	D	SP	Pdf
HAU	102.276	317.53	4.44	19.43	I	D	SP	Pdf
COL	102.599	24.96	4.44	19.43	E	C	LP	Pdf
LOR	104.009	316.90	4.44	19.43	I	D	SP	Pdf

Table 258. Station data for event 201 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SMF	104.075	316.26	4.44	19.43	I	D	SP	Pdf
AVF	104.397	316.44	4.44	19.43	I	D	SP	Pdf
GRC	104.539	316.98	4.44	19.43	I	D	SP	Pdf
BGF	104.766	316.23	4.44	19.43	I	D	SP	Pdf
PTO	113.784	311.94	1.88	8.12	I	C	LP	PKP
EDM	123.335	27.84	1.87	8.05	I	C	SP	PKP
WDC	124.538	44.80	1.87	8.04	I	C	SP	PKP
BKS	125.792	47.73	1.86	8.03	E	C	LP	PKP
JAS1	127.099	46.99	1.86	8.01	I	C	SP	PKP
FRI	127.989	47.79	1.86	8.00	I	C	SP	PKP
MNA	128.512	45.47	1.86	7.99	I	C	SP	PKP
GOL	136.227	36.78	1.81	7.79	E	C	LP	PKP
PEL	140.141	182.90	1.76	7.59	E	C	LP	PKP
QZO	143.016	37.41	1.72	7.40	I	D	SP	PKP
TUL	144.305	32.77	1.70	7.30	I	C	LP	PKP
TUL	144.305	32.77	1.70	7.30	I	C	SP	PKP
SOB1	144.322	243.80	1.69	7.29	I	C	SP	PKP
RLO	144.517	31.67	1.69	7.28	I	C	SP	PKP
WES	144.625	357.98	1.69	7.27	I	C	LP	PKP
VVO	144.762	33.36	1.69	7.26	I	C	SP	PKP
JCT	145.542	43.66	1.67	7.19	I	C	LP	PKP
BLA	149.051	11.72	1.58	6.81	E	C	LP	PKP
ANT	149.503	184.49	1.57	6.76	I	C	LP	PKP
OXM	151.198	62.07	1.52	6.54	I	C	SP	PKP
UNM	151.627	61.63	1.51	6.48	I	C	SP	PKP
SHA	152.340	29.20	1.48	6.37	E	C	LP	PKP
SJG	167.048	330.07	0.79	3.39	E	C	LP	PKP
SJG	167.048	330.07	0.79	3.39	I	C	SP	PKP
CAR	173.086	301.75	0.43	1.85	I	C	SP	PKP
UPA	173.109	71.99	0.43	1.85	I	C	SP	PKP
UPA	173.109	71.99	0.43	1.85	I	C	LP	PKP

Table 259. Station data for event 225.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
KLI	1.131	35.90	14.28	122.96	I	D	SP	P
SNG	13.359	344.47	13.21	50.92	E	C	LP	P
PGP	25.379	40.88	9.42	33.61	I	C	SP	P
MUN	28.376	158.14	9.11	32.36	I	D	LP	P
HKC	29.573	18.98	8.97	31.81	I	D	SP	P
NWAO	29.609	157.41	8.97	31.81	I	D	LP	P
KMI	30.750	357.43	8.82	31.22	E	C	LP	P
KOD	31.010	300.78	8.82	31.22	I	C	SP	P
WB2	32.514	118.43	8.72	30.82	I	C	SP	P
ASPA	33.661	124.93	8.65	30.55	I	C	SP	P
TATO	34.899	28.14	8.56	30.20	I	D	LP	P
ANP	35.090	27.99	8.56	30.20	E	D	LP	P
POO	38.455	309.59	8.35	29.38	I	C	SP	P
BOM	39.461	309.14	8.29	29.15	I	C	SP	P
SSE	40.107	22.91	8.27	29.07	E	D	LP	P
NDI	43.001	324.24	8.10	28.42	I	C	SP	P
ADE	43.075	137.04	8.10	28.42	I	C	SP	P
CTA	43.241	113.19	8.10	28.42	I	D	SP	P
CTAO	43.241	113.19	8.10	28.42	I	C	LP	P
STK	43.524	131.38	8.07	28.31	I	C	SP	P
SEO	48.068	24.43	7.81	27.32	E	D	LP	P
MAJO	52.782	34.46	7.42	25.85	E	N	LP	P
MAT	52.782	34.46	7.42	25.85	I	C	SP	P
HNR	55.339	97.43	7.22	25.10	I	C	LP	P
DZM	62.154	111.80	6.72	23.26	I	C	SP	P
NOU	62.182	112.07	6.72	23.26	I	C	SP	P
ARO	63.400	285.88	6.60	22.82	I	C	LP	P
PVC	63.627	106.84	6.60	22.82	I	C	SP	P
NAI	67.376	271.03	6.26	21.58	I	C	LP	P
MTD	71.722	254.31	5.96	20.50	I	C	SP	P
KRI	73.606	254.23	5.82	20.00	I	C	SP	P
BUL	74.507	250.79	5.75	19.75	I	C	SP	P
SLR	74.827	245.02	5.71	19.60	I	D	SP	P
SLR	74.827	245.02	5.71	19.60	I	D	LP	P
LWI	75.247	269.21	5.71	19.60	I	C	SP	P
BFS	76.185	243.84	5.64	19.35	I	D	SP	P
HLW	78.153	301.99	5.52	18.93	I	C	LP	P
ANTO	79.608	312.13	5.41	18.54	I	C	LP	P
SUR	81.348	238.23	5.22	17.86	I	D	SP	P
IST	82.714	312.50	5.14	17.58	I	C	LP	P
CLI	85.232	317.58	4.99	17.05	I	D	SP	P
VRI	85.454	316.82	4.96	16.94	I	D	SP	P
KDZ	85.522	312.47	4.96	16.94	I	D	SP	P
BUC	85.567	315.30	4.96	16.94	I	C	SP	P
MLR	85.905	316.33	4.90	16.73	I	D	SP	P
PVL	85.957	313.92	4.90	16.73	I	D	SP	P
BNG	86.121	274.83	4.90	16.73	I	C	SP	P
BCAO	86.132	274.83	4.90	16.73	I	C	LP	P
MMB	86.706	312.18	4.86	16.59	I	D	SP	P
VTS	87.276	313.10	4.80	16.38	I	D	SP	P

Table 259. Station data for event 225 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
SKO	88.458	312.26	4.75	16.21	I	D	SP	P
PSZ	90.433	317.98	4.70	16.03	I	D	SP	P
TRI	94.394	315.35	4.60	15.68	I	D	SP	P
KHC	94.731	318.77	4.60	15.68	I	D	SP	P
WET	95.190	318.76	4.58	15.61	I	C	SP	P
GRFO	96.297	319.27	4.54	15.47	E	C	LP	P
KONO	97.280	329.31	4.52	15.40	E	C	LP	P
STU	97.609	318.32	4.52	15.40	E	C	LP	P
GRC	101.768	316.98	4.45	15.16	I	C	SP	Pdf
DAG	102.835	348.57	4.45	15.16	I	C	SP	Pdf
PTO	110.902	311.80	1.89	6.38	E	C	LP	PKP
FHC	124.673	43.47	1.87	6.29	I	C	SP	PKP
ORV	126.932	43.80	1.86	6.28	I	C	SP	PKP
JAS1	128.422	45.15	1.86	6.27	I	C	SP	PKP
PRI	129.031	47.31	1.86	6.26	I	C	SP	PKP
FRI	129.349	45.89	1.86	6.26	I	C	SP	PKP
PEL	140.986	186.84	1.75	5.92	I	C	SP	PKP
ANT	150.225	189.99	1.56	5.26	E	C	LP	PKP
SJG	164.541	323.22	0.91	3.06	E	C	LP	PKP
TRN	164.949	289.64	0.91	3.06	E	C	LP	PKP
UPA	175.130	49.11	0.31	1.06	I	C	LP	PKP
UPA	175.130	49.11	0.31	1.06	I	D	SP	PKP

Figure 89. Azimuthal equidistant map for geographic subdivision, Southwest Pacific Ocean.

FIRST MOTION FM LOCATIONS 1984-1985 SOUTHWEST PACIFIC OCEAN

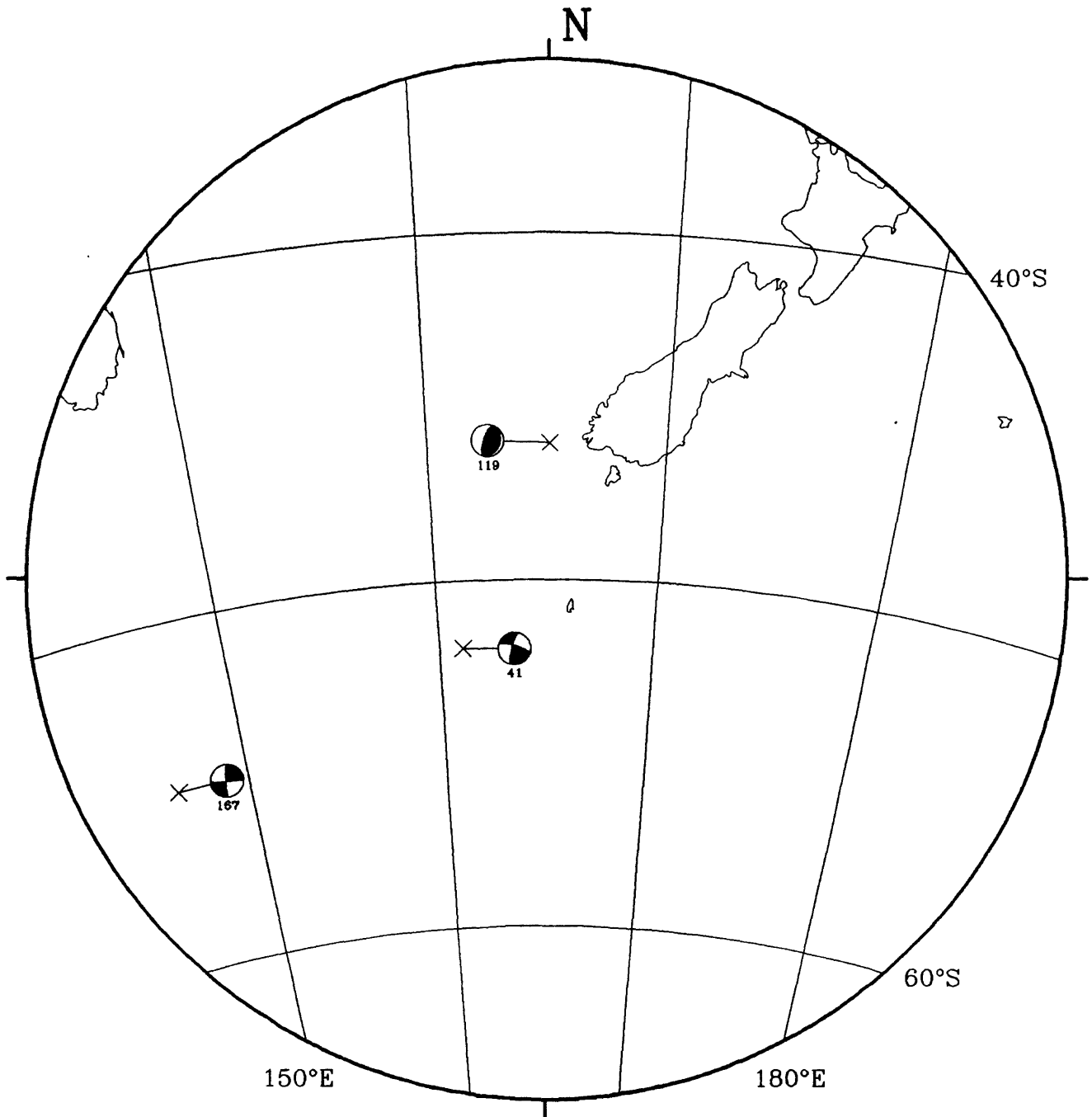


Table 260. Focal mechanism parameters for subdivision,
Southwest Pacific Ocean

EVENT #	NODAL PLANE 1 (DEG)			NODAL PLANE 2 (DEG)			T AXIS (DEG)		P AXIS (DEG)		B AXIS (DEG)	
	ϑ	δ	λ	ϑ	δ	λ	PLG	AZM	PLG	AZM	PLG	AZM
41	193	75	164	287	75	16	22	150	0	240	68	331
119	197	68	90	17	22	90	67	107	23	287	0	17
167	175	82	5	84	85	172	9	39	2	130	81	233

Figure 90. Lower hemisphere focal sphere projection for events 41, 119, and 167.

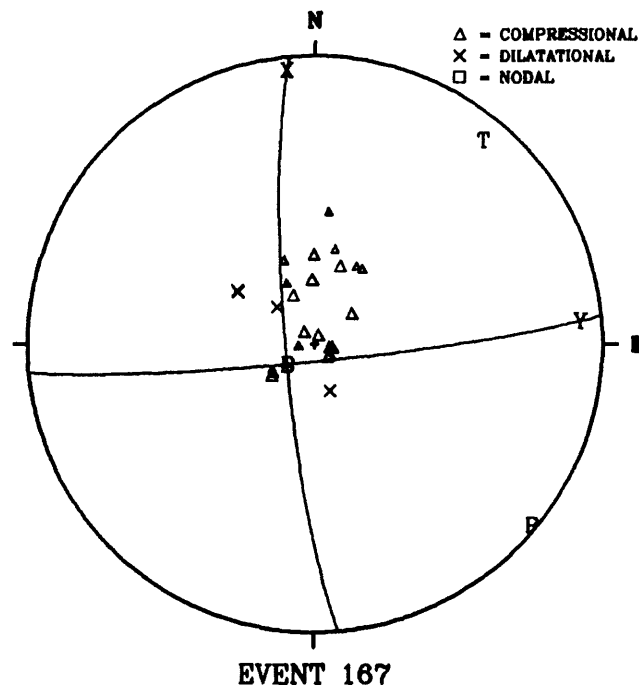
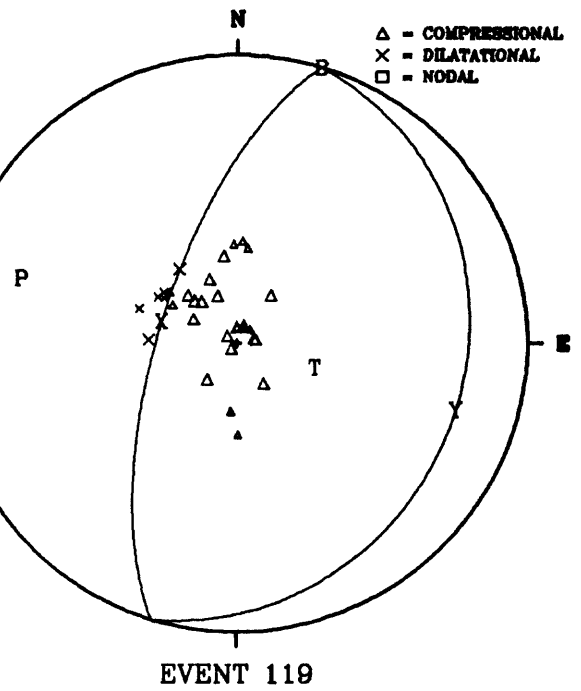
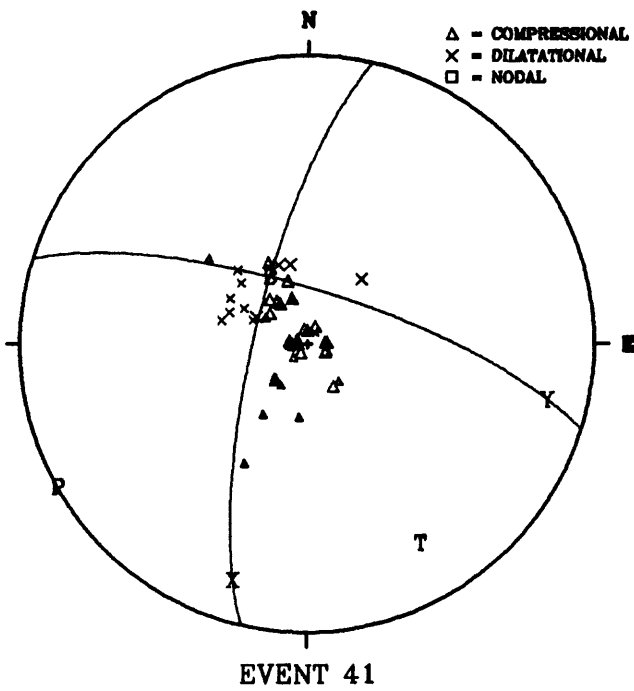


Table 261. Station data for event 41.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DRV	18.106	207.46	12.42	38.54	I	C	SP	P
BFD	19.733	311.20	12.10	37.38	I	C	SP	P
STK	24.608	317.01	9.55	28.63	I	D	SP	P
CTA	33.847	334.40	8.63	25.66	I	C	SP	P
CTAO	33.847	334.40	8.63	25.66	E	C	LP	P
ASPA	35.085	313.21	8.56	25.43	I	D	SP	P
WBN	36.621	301.38	8.48	25.18	I	D	SP	P
KLB	37.472	285.73	8.42	24.99	I	D	SP	P
AFI	43.739	39.83	8.08	23.91	E	D	LP	P
PMG	43.918	339.97	8.05	23.82	E	D	LP	P
NAU	45.587	292.40	7.97	23.57	I	D	SP	P
MAW	46.250	211.68	7.94	23.48	I	C	SP	P
RAB	48.172	348.02	7.82	23.10	E	D	LP	P
SNA	57.462	186.59	7.08	20.81	I	C	SP	P
TRT	59.240	300.32	6.97	20.47	I	D	SP	P
GUA	66.702	342.84	6.36	18.61	E	C	LP	P
GUMO	66.759	342.80	6.31	18.46	I	C	LP	P
PSJ	75.402	294.11	5.68	16.56	I	D	SP	P
BAG	76.632	320.15	5.62	16.38	I	C	LP	P
SNG	78.156	298.09	5.52	16.08	I	D	LP	P
TATO	84.081	324.43	5.06	14.71	I	C	LP	P
ANP	84.261	324.54	5.03	14.62	E	C	LP	P
LPA	87.012	148.79	4.83	14.02	E	C	LP	P
BDT	87.389	302.29	4.80	13.93	I	C	SP	P
CHG	88.726	303.10	4.75	13.79	I	C	SP	P
SUR	89.102	212.74	4.73	13.73	I	C	SP	P
SSE	89.783	326.61	4.71	13.67	E	C	LP	P
CYA	90.028	140.00	4.71	13.67	I	C	SP	P
MAT	90.358	341.75	4.70	13.64	I	C	SP	P
MAJO	90.358	341.75	4.70	13.64	E	C	LP	P
BFS	91.876	219.75	4.67	13.55	I	C	SP	P
KMI	92.128	309.45	4.67	13.55	E	C	LP	P
SLR	92.308	221.47	4.66	13.52	I	C	LP	P
KSR	92.754	220.30	4.65	13.49	I	C	SP	P
BUL	97.118	224.30	4.53	13.14	I	C	SP	P
UPA	114.946	108.30	1.88	5.42	I	C	LP	PKP
COL	122.996	23.33	1.87	5.38	I	C	LP	PKP
BNG	123.382	226.57	1.87	5.38	I	C	SP	PKP
SHA	126.011	84.72	1.86	5.37	E	C	LP	PKP
SJG	129.966	114.34	1.85	5.33	E	C	LP	PKP
TAB	133.381	279.53	1.84	5.29	E	C	LP	PKP
WES	143.824	84.10	1.70	4.90	I	C	LP	PKP
IST	145.851	270.68	1.66	4.79	I	C	LP	PKP
EDC	146.146	268.77	1.66	4.79	I	D	SP	PKP
EZN	146.790	266.74	1.64	4.72	I	C	SP	PKP
ATH	147.259	261.76	1.64	4.72	I	C	SP	PKP
THE	149.341	265.09	1.59	4.57	I	C	SP	PKP
MLR	150.099	275.56	1.56	4.49	I	C	SP	PKP
KBS	150.856	348.25	1.53	4.40	E	C	LP	PKP
SKO	151.050	265.97	1.53	4.40	I	C	SP	PKP

Table 261. Station data for event 41 ... continued.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
DAG	155.076	359.92	1.39	3.99	I	C	LP	PKP
DAG	155.076	359.92	1.39	3.99	I	C	SP	PKP
GDH	156.259	30.20	1.35	3.88	I	D	SP	PKP
TRI	157.731	266.72	1.26	3.63	I	C	SP	PKP
COP	161.209	293.84	1.12	3.22	E	C	LP	PKP
MAL	161.638	219.69	1.07	3.07	I	C	LP	PKP
STU	161.835	271.06	1.07	3.07	I	C	LP	PKP
WLF	164.013	271.69	0.96	2.77	E	C	LP	PKP

Table 262. Station data for event 119.

Station	Distance (°)	Azimuth (°)	dt/dΔ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
ADE	22.820	289.77	9.78	29.38	I	D	SP	P
NOU	23.740	3.13	9.70	29.12	I	C	SP	P
KOU	25.462	358.23	9.43	28.24	I	C	SP	P
PVC	28.386	6.47	9.14	27.29	I	C	SP	P
CTAO	30.194	322.88	8.92	26.58	E	D	LP	P
CTA	30.194	322.88	8.92	26.58	I	D	LP	P
SBA	31.890	179.33	8.76	26.07	I	C	SP	P
ASPA	33.641	301.00	8.66	25.75	I	D	SP	P
WB2	36.267	305.62	8.48	25.18	I	D	SP	P
HNR	36.782	351.50	8.45	25.08	I	C	LP	P
NWAO	38.631	272.63	8.36	24.80	I	D	LP	P
KNA	42.805	302.92	8.11	24.01	I	D	SP	P
MTN	43.807	308.09	8.05	23.82	I	C	SP	P
MKS	56.654	301.56	7.15	21.02	I	C	SP	P
GUA	62.065	337.68	6.73	19.73	E	C	LP	P
SNA	63.564	184.73	6.60	19.34	I	C	SP	P
DAV	63.579	315.16	6.60	19.34	I	C	LP	P
BAG	74.045	315.59	5.79	16.89	I	C	LP	P
HON	74.957	35.43	5.72	16.68	I	C	LP	P
TATO	81.021	320.68	5.27	15.33	I	C	LP	P
MAJO	85.729	338.58	4.96	14.41	I	C	LP	P
CHTO	87.907	299.90	4.78	13.88	I	C	LP	P
LPA	90.534	145.89	4.70	13.64	E	C	LP	P
SLR	98.498	218.62	4.50	13.05	I	C	LP	P
COL	116.567	20.46	1.88	5.41	E	C	LP	PKP
EDM	120.808	43.84	1.87	5.39	I	C	SP	PKP
SHA	122.519	78.01	1.87	5.38	E	C	LP	PKP
WES	140.127	74.33	1.77	5.09	I	C	LP	PKP
DAG	149.163	1.73	1.59	4.57	E	C	LP	PKP
DAG	149.163	1.73	1.59	4.57	I	C	SP	PKP
GDH	149.840	26.29	1.56	4.49	I	C	SP	PKP
COP	160.375	309.23	1.17	3.36	E	C	LP	PKP
MAL	167.785	223.78	0.74	2.13	I	C	LP	PKP

Table 263. Station data for event 167.

Station	Distance (°)	Azimuth (°)	dt/d Δ (sec/°)	JB Focal Angle (°)	Quality, Direction, and Source of Earth Motion			
WAM	18.706	6.18	12.32	38.18	I	C	SP	P
BRS	27.792	12.15	9.20	27.49	I	C	SP	P
NWAO	29.997	304.84	8.92	26.58	I	D	SP	P
NWAO	29.997	304.84	8.92	26.58	I	D	LP	P
MUN	31.267	304.48	8.79	26.17	E	D	LP	P
CTAO	34.673	359.70	8.59	25.53	I	C	LP	P
NOU	35.770	32.84	8.51	25.27	I	C	SP	P
WB2	36.009	340.43	8.51	25.27	I	C	SP	P
KOU	36.777	28.66	8.45	25.08	I	C	SP	P
HNR	46.526	18.52	7.91	23.38	E	C	LP	P
CGP	65.621	336.28	6.44	18.85	I	C	SP	P
GUMO	68.144	358.36	6.23	18.21	I	C	LP	P
ANP	82.497	337.35	5.15	14.97	E	C	LP	P
CHG	83.736	315.37	5.09	14.80	I	D	SP	P
CHTO	83.736	315.37	5.09	14.80	E	D	LP	P
SLR	83.928	233.11	5.06	14.71	E	C	LP	P
LPA	88.215	160.17	4.78	13.88	E	D	LP	P
BUL	88.551	236.23	4.75	13.79	E	C	LP	P
BUL	88.551	236.23	4.75	13.79	I	C	SP	P
HON	89.398	50.26	4.72	13.70	E	C	LP	P
KRI	90.889	238.74	4.70	13.64	I	C	SP	P
UPA	121.593	123.50	1.87	5.39	E	C	LP	PKP
SHA	134.678	99.16	1.82	5.24	E	C	LP	PKP
SJG	135.706	132.82	1.81	5.22	E	C	LP	PKP
KEV	149.708	323.05	1.56	4.49	E	C	LP	PKP
CVF	149.902	263.75	1.56	4.49	I	C	SP	PKP
LMR	151.736	262.77	1.50	4.31	I	C	SP	PKP
FRF	151.796	263.28	1.50	4.31	I	C	SP	PKP
LRG	151.896	262.83	1.50	4.31	I	C	SP	PKP
WES	152.461	101.10	1.50	4.31	E	C	LP	PKP
GDH	162.903	24.46	1.02	2.92	E	C	LP	PKP