United States Department of the Interior
Geological Survey

PRELIMINARY CATALOG OF AFTERSHOCKS OF THE GUATEMALA EARTHQUAKE OF FEBRUARY 4, 1976

from the Area between Guatemala City and Lake Atitlan
FEBRUARY 4 - JUNE 30, 1976

By
R. A. White and David H. Harlow

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Menlo Park, California
1979

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INTRODUCTION

A six-station seismic network, about 40 km in diameter, has been operated just west of Guatemala City since March 1975, as part of a co-operative project between the U.S. Geological Survey and the Instituto Nacional de Sismologia, Vulcanologia, Meteorologia e Hidrologia (INSIVUMEH), of Guatemala. The purpose of this project was to monitor the seismicity near the active volcanoes Pacaya and Fuego but the seismic stations were well situated to record several thousand aftershocks from the magnitude 7.5 (Ms) Guatemalan earthquake of February 4, 1976. This catalog contains hypocentral data on 1560 of these events from selected time frames between February 5 and June 30, 1976.

The network is centered about 35 km south from the western end of the 230 km strike-slip surface rupture that was reported along the Motagua Fault by Plafker and others (1976a). The area of coverage contains most of the observed secondary faulting (Bonilla and others, 1976) and is roughly coincident with the region of greatest damage and highest casualties (Espinosa and others, 1976).

The hypocentral data contained in this catalog show that the area between the western Motagua Fault and the line of active volcanoes is extensively fractured. The diffuse seismicity and the normal fault mechanisms determined by Langer et al. (1979) for these secondary fault zones, are consistent with a theory proposed by Plafker (1976b): this wedge-shaped western tip of the Caribbean plate is being pinched off by adjacent plates, and is being left behind by the relatively eastward motion of the main part of the plate.

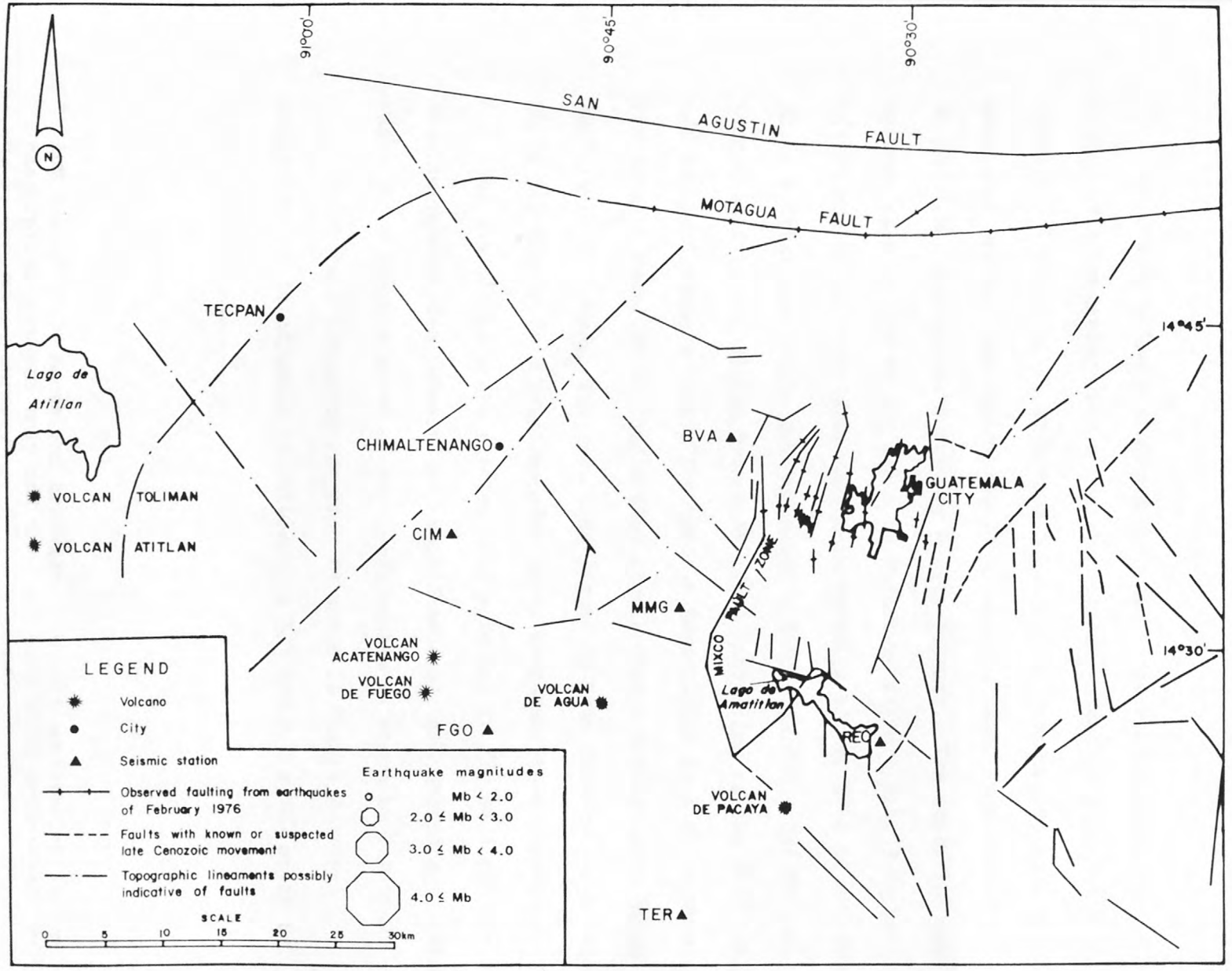

FIGURE 1. Map of the study area. The data shown on this map were gathered from various geologic maps published by the Instituto Geographico Nacional, Guatemala.

INSTRUMENTATION

The remote seismic stations each use a one second vertical L-4C Mark Products* seismometer with a resistor circuit added to give 80% critical damping. The signal is converted to a frequency-modulated tone by an amplifier and voltage-controlled oscillator package, Model JE202 developed at the U.S. Geological Survey by J. Van Schaack. The amplifier has a maximum gain of 100 db and has a 12 db/octave filters with 3 db points at 0.1 Hz and 30 Hz. The attenuation is normally set at 6 to 18 db, which gives a total electronic gain of about 8,000 to 32,000. The FM tone is transmitted by a modified Motorola* HT200 radio link to the INSIVUMEH offices in Guatemala City. The tone is demodulated by a discriminator, Van Schaack Model JE101, and a time signal from a crystal-controlled oscillator is added. The resulting signal is then recorded at a rate of 60 mm per minute on a drum recorder using heat-sensitive paper.

The six stations are plotted on a base map in Figure 1 and the station coordinates, elevations, magnifications, and delays are listed in Table 1. A block diagram of the total system is shown in Figure 2.

The overall frequency response is shown in Figure 3. The magnification is adjusted to between 6×10^4 and 2.4×10^5 at 25 Hz.

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TABLE 1

Station Coordinates, Elevations, Magnifications, and Delays

Station	Latitude (Degrees)	Longitude (Degrees)	Elevation (Meters)	Magnification at 25 Hz	Delay (Sec)
FGO	14.446N	90.840W	1410	120,000	0.10
CIM	14.595N	90.860W	2450	60,000	0.41
MMG	14.538N	90.681W	2190	60,000	0.48
BVA	14.667N	90.637W	2262	120,000	0.22
REC	14.437N	90.519W	1500	120,000	0.40
TER	14.304N	90.684W	0570	240,000	0.05

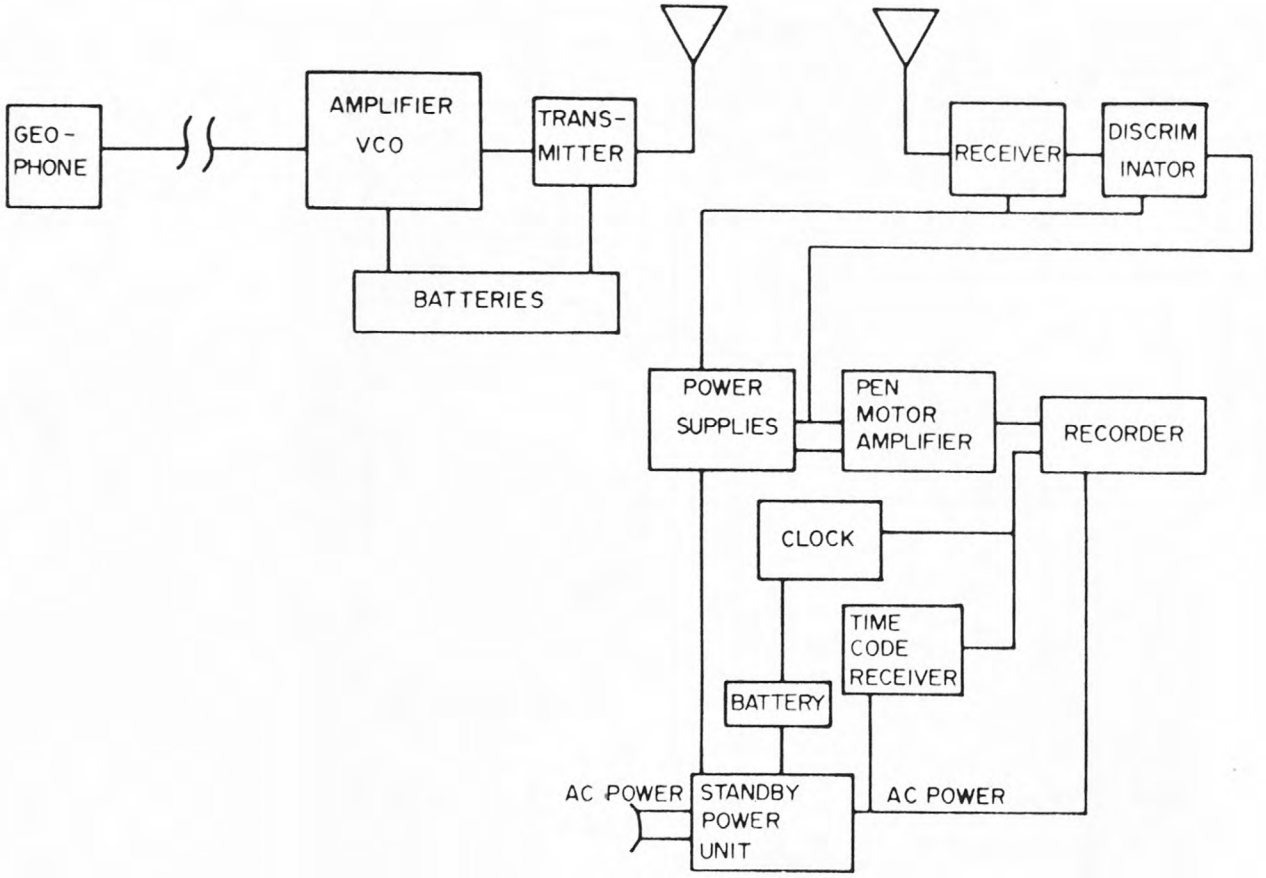

FIGURE 2. Block diagram of the seismic system

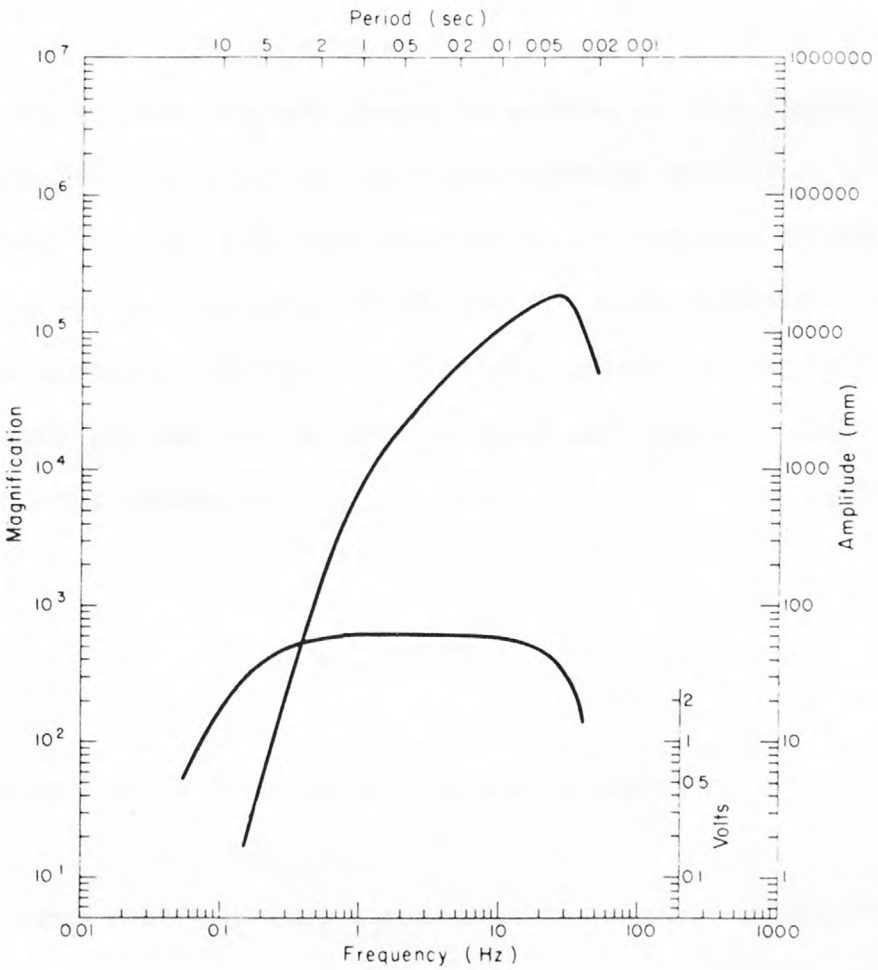

FIGURE 3. Frequency response curves for the high-gain, short-period seismographs. The lower curve shows the response of the electronics and the upper curve shows the system response, including the displacement response of the geophone.

TIME COVERAGE

In the eleven months from March 1975 through January 1976, local, shallow seismicity of a magnitude greater than 1.5, averaged less than one event per day (Harlow and White, 1980). The Guatemalan earthquake brought about more than a 50-fold increase to this level of seismicity over the next two months. We were unable to process so many events, thus earthquakes were timed only for the days approximately bracketing each of nine major aftershocks ($M_L > 4.2$) that occurred in the vicinity of the network. Figure 4 shows the level of seismicity versus time with respect to the major aftershocks. By April 1, the local seismicity had subsided to below 15 events per day and the processing of all events of magnitude greater than 1.5 was resumed.

DATA ANALYSIS

The paragraphs below describe how the events are processed.

1. All events with 4 or more discernable P-arrivals are examined for P-wave arrival time and first motion, S-wave arrival time if possible, and the signal duration. P-arrival time can be read to within ± 0.1 sec, but S-arrivals are often unclear and reading errors may be as large as ± 0.3 sec. The signal duration is measured from the first break to the point where the signal drops below a peak-to-peak amplitude of 1 mm.

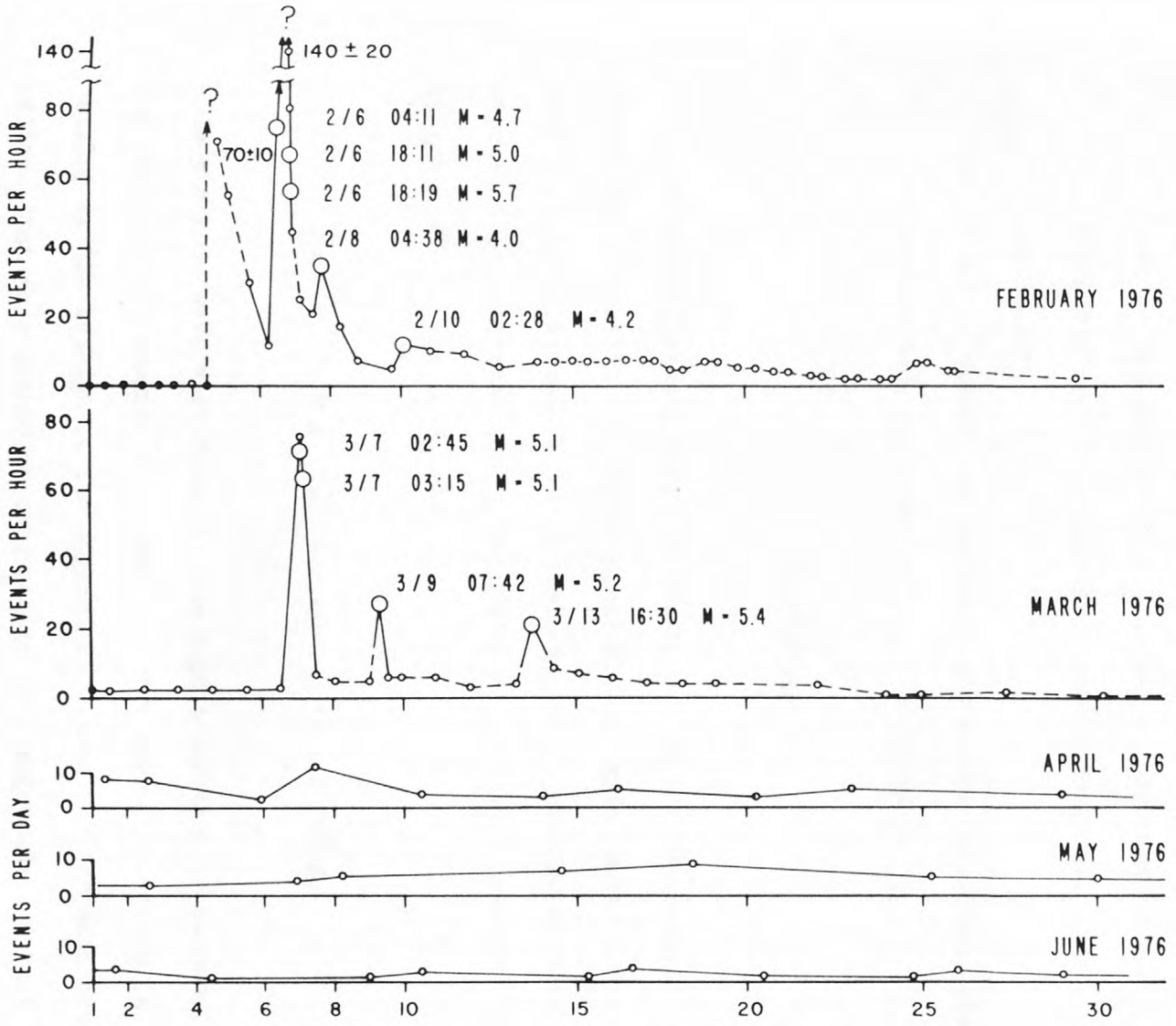

FIGURE 4. Seismicity versus time. Large circles denote major aftershocks and are labeled with date, time, and magnitude. Small circles are seismicity sample points. Solid line indicates periods covered in this report.

2. Computer cards are prepared from the examined data and processed by the computer program HYPOELLIPSE (Lahr in preparation) to determine origin time, hypocenter, magnitude, statistical data on the quality of the solution, and data on the error ellipsoid enclosing the one standard deviation region of the hypocenter.
3. First solutions are analyzed, any errors corrected, the events reprocessed, and poor solutions eliminated.

MAGNITUDES

The useful dynamic range of earthquake magnitudes determined from record amplitudes is limited because the high gain amplifiers are saturated by relatively small seismic signals. Richter magnitudes are approximated, therefore, by a method based on signal duration (Lee and others, 1972) given in Equation 1.

$$M = -0.87 + 2.00 \log(t) + 0.0035\Delta \qquad (1)$$

M is the body wave magnitude, t, the signal duration in seconds, and Δ is the epicentral distance in kilometers. The magnitude listed in the catalog is the average of the magnitudes determined for each station. We believe that this method is accurate to $\pm$0.3 magnitude and that the method provides good information on relative magnitudes. Figure 5 shows the magnitude distribution of the earthquakes listed in this catalog.

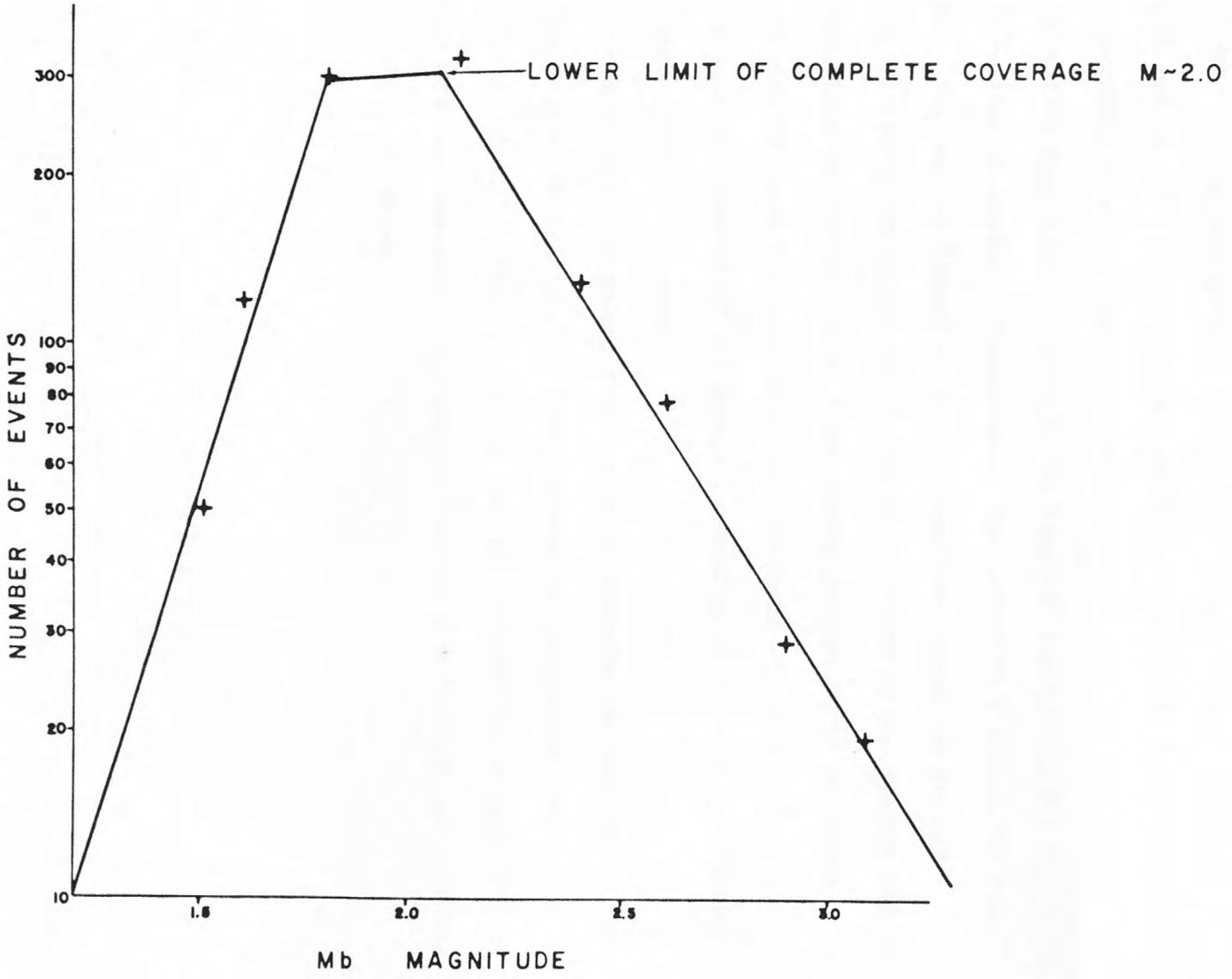

FIGURE 5. Magnitude distribution for the events listed in this catalog.

VELOCITY MODEL

Accurate calculation of hypocentral solutions depends upon the compatibility between the seismic velocities in the earth and the velocity model specified to the program HYPOELLIPSE. Since neither velocity studies nor reliable explosion data exist for Guatemala, a crustal model was approximated using a velocity that increases linearly with depth. A set of eleven such models, covering the range of possibilities thought to exist in similar tectonic environments, was tested on a set of 100 local events. The results listed in Table 2 show that among the six best models, virtually no difference (0.015 sec.) exists in the average RMS of the travetime residuals. Model 7 was chosen because it is the closest to the average of these six best models and produced the smallest average RMS: a surface velocity of 5.5 km/sec increasing linearly by 0.1 km/sec with each kilometer of depth.

Tests of selected events show that for different crustal models, epicenters inside the net vary by less than one km, and depths vary up to 5 km. For events at 1 diameter outside the net, epicenters vary up to 8 km between most extreme models but vary only about 3 km between the six best models mentioned above.

Table 2

Velocity Model Data

Model	Surface Velocity (Km/sec)	Rate of Linear Increase with Depth (Km/sec/km)	Average RMS of Traveltime Residuals (Sec)
1	4.5	.15	.232
2	5.0	.15	.221
3	5.5	.15	.232
4	4.0	.10	.309
5	4.5	.10	.266
6	5.0	.10	.231
7*	5.5	.10	.219
8	6.0	.10	.241
9	5.5	.07	.232
10	6.0	.07	.228
11	6.5	.07	.275

*Model selected for use in this catalog.

STATION CORRECTIONS

Station delays were developed to correct for factors such as elevation and local geology that are unique to each recording site. A set of 100 well recorded events were processed by HYPOELLIPSE and the resultant average traveltime residuals were added to the station corrections so as to minimize the standard deviation of the residuals. See Table 1 for a listing of the station corrections.

DISCUSSION

The earthquake locations are based on the time of the first arrival of P-waves and equally, whenever available, S-waves. The HYPOELLIPSE program uses Geiger's method (Geiger, 1912) to minimize the RMS of the traveltime residuals. The traveltimes and the partial derivatives are calculated for a horizontally homogeneous model by a technique developed by Eaton (1969). For each event, the program also calculates the ellipsoid enclosing the one standard deviation region of the RMS of the traveltime residuals. Our studies indicate that epicentral locations are accurate to $\pm$2.0 km inside the perimeter of the network and range to $\pm$4.0 km out at 30 km beyond the perimeter. Depths are accurate to $\pm$3.0 km inside the perimeter and range to $\pm$6.0 km at 30 km beyond the perimeter.

Figure 6 compares the epicenters of 30 events that were well recorded by both this network and by a temporary network operated by Langer and others (1976) in this area from February 9 through February 17, 1976. It shows that epicentral differences can range up to 5 km but average about 2 km.

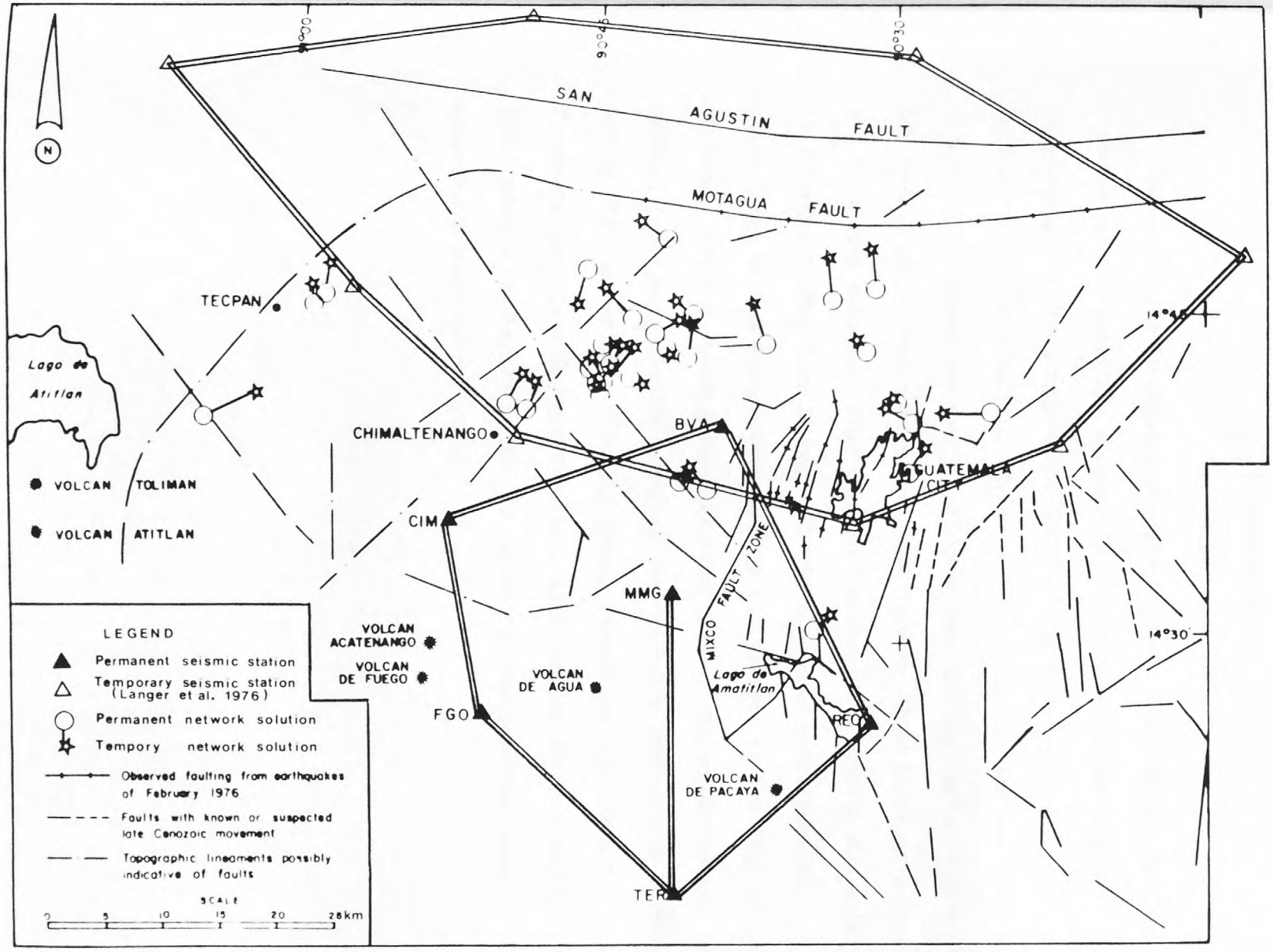

FIGURE 6. Comparison of epicentral locations. Solid double line connecting open triangles is the permanent network described in this report. Solid double line connecting solid triangles is a temporary network operated by Langer and others (1976). Circles are epicenters located from permanent network seismograms. Stars are epicenters located from the temporary network seismograms and are connected by solid line to the corresponding permanent network solution.

ACKNOWLEDGMENTS

We would like to express our gratitude to Ing. Claudio Urrutia E., Director of the Instituto Nacional de Sismología, Vulcanología, Meteorologia e Hidrologia (INSIVUMEH), Guatemala. Ing. Urrutia has continually offered helpful advice and encouragement and has provided technical personnel the use of office space, and logistical support that has made this project successful. The late Mr. Jose Vasseaux's interest and help were also very important to the project. Special appreciation is extended to Mr. Eddy Sanchez for his continued excellence in maintenance of the instruments and for his efforts in the face of great personal hardship immediately following the Guatemalan earthquake. He quickly provided generator power to the recording instruments thereby saving the loss of much valuable data. Thanks are also extended to Pat Stevenson and Steve Maynard for their hard work on data reduction. We are indebted to Charlie Langer for providing arrival-time data from the aftershock study he performed.

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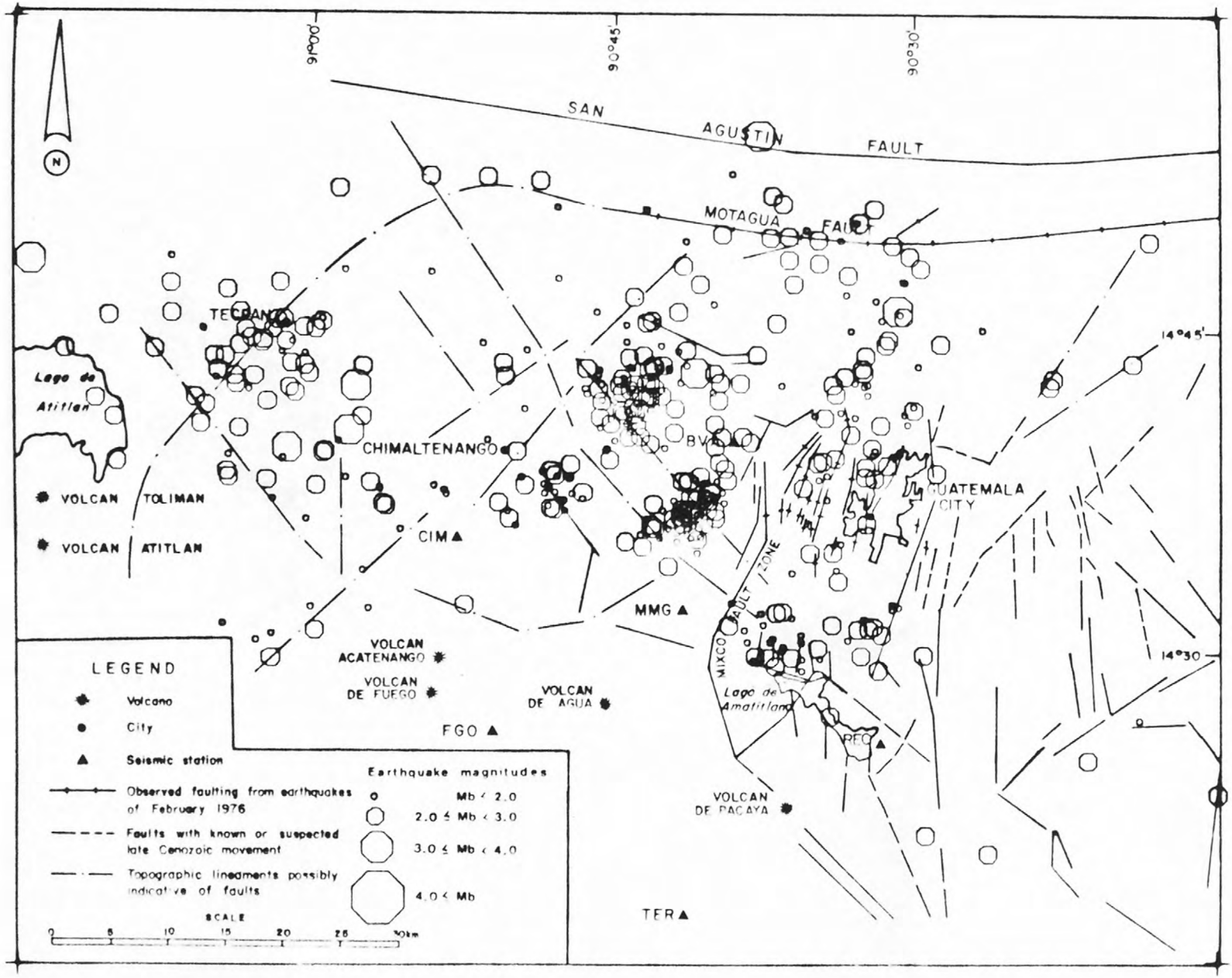

FIGURE 7. February 5-10, and 12, 1976. Quality A and B events only.

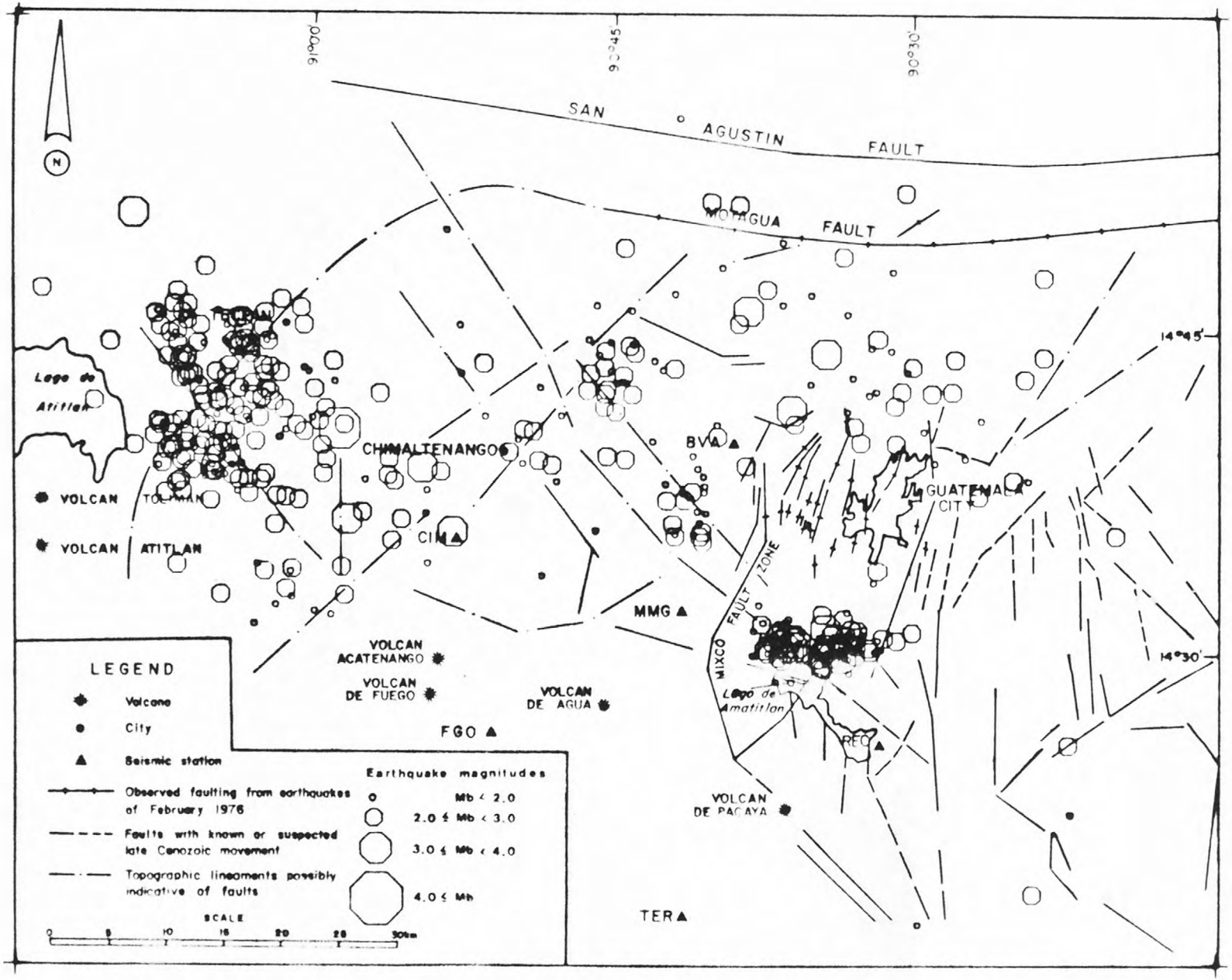

FIGURE 8. March 1-7, 9, and 13, 1976. Quality A and B events only.

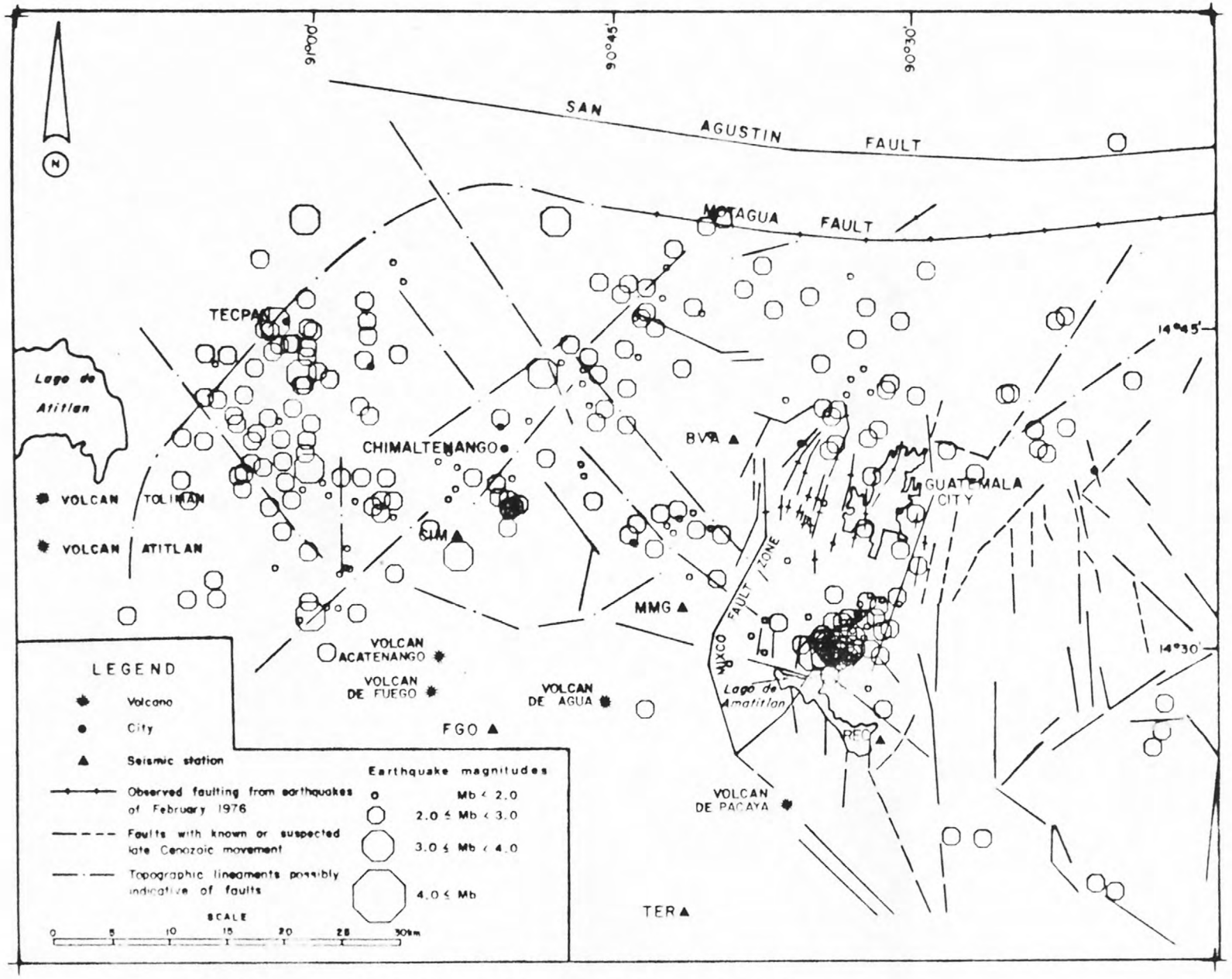

FIGURE 9. April 1976. Quality A and B events only.

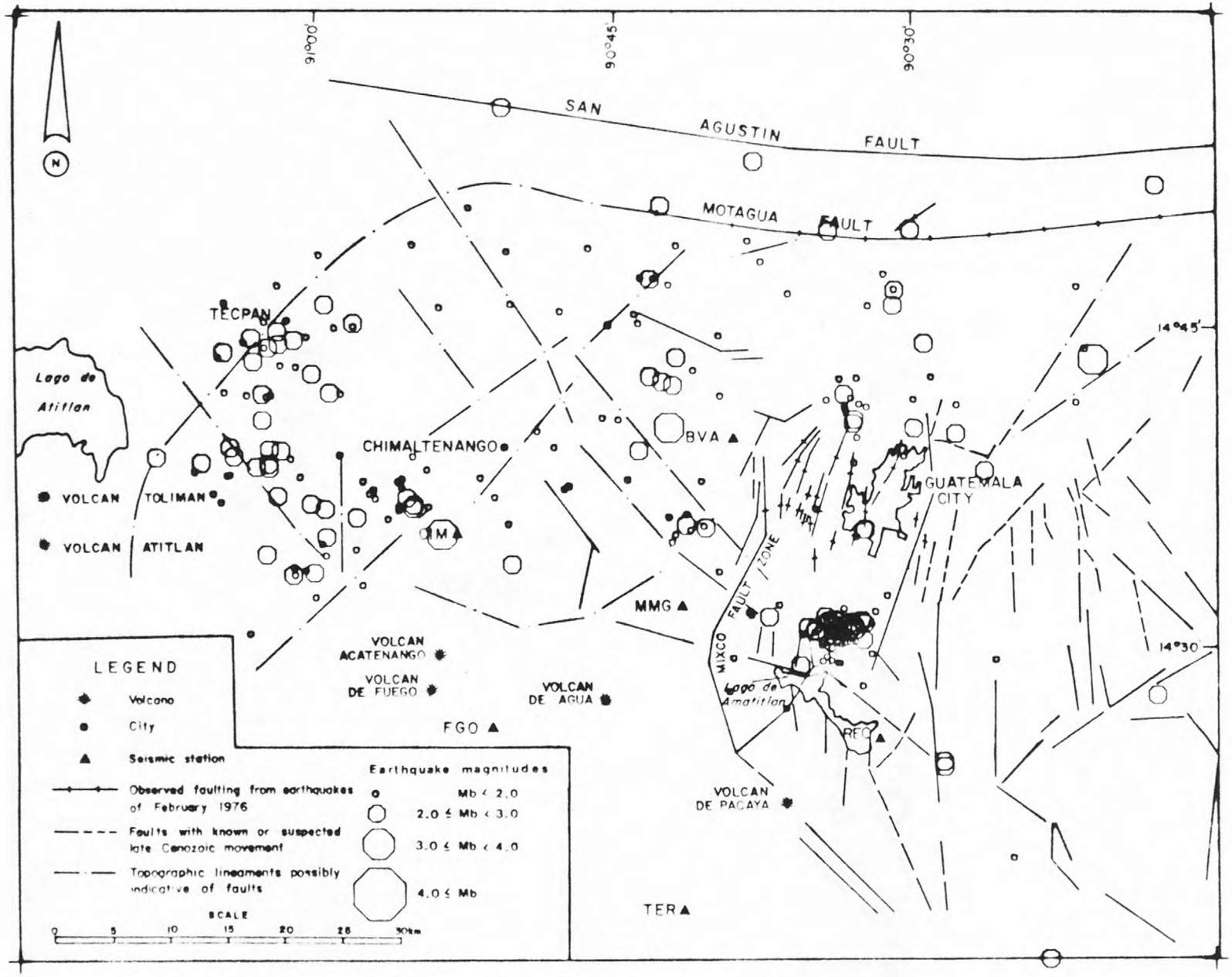

FIGURE 10. May 1976. Quality A and B events only.

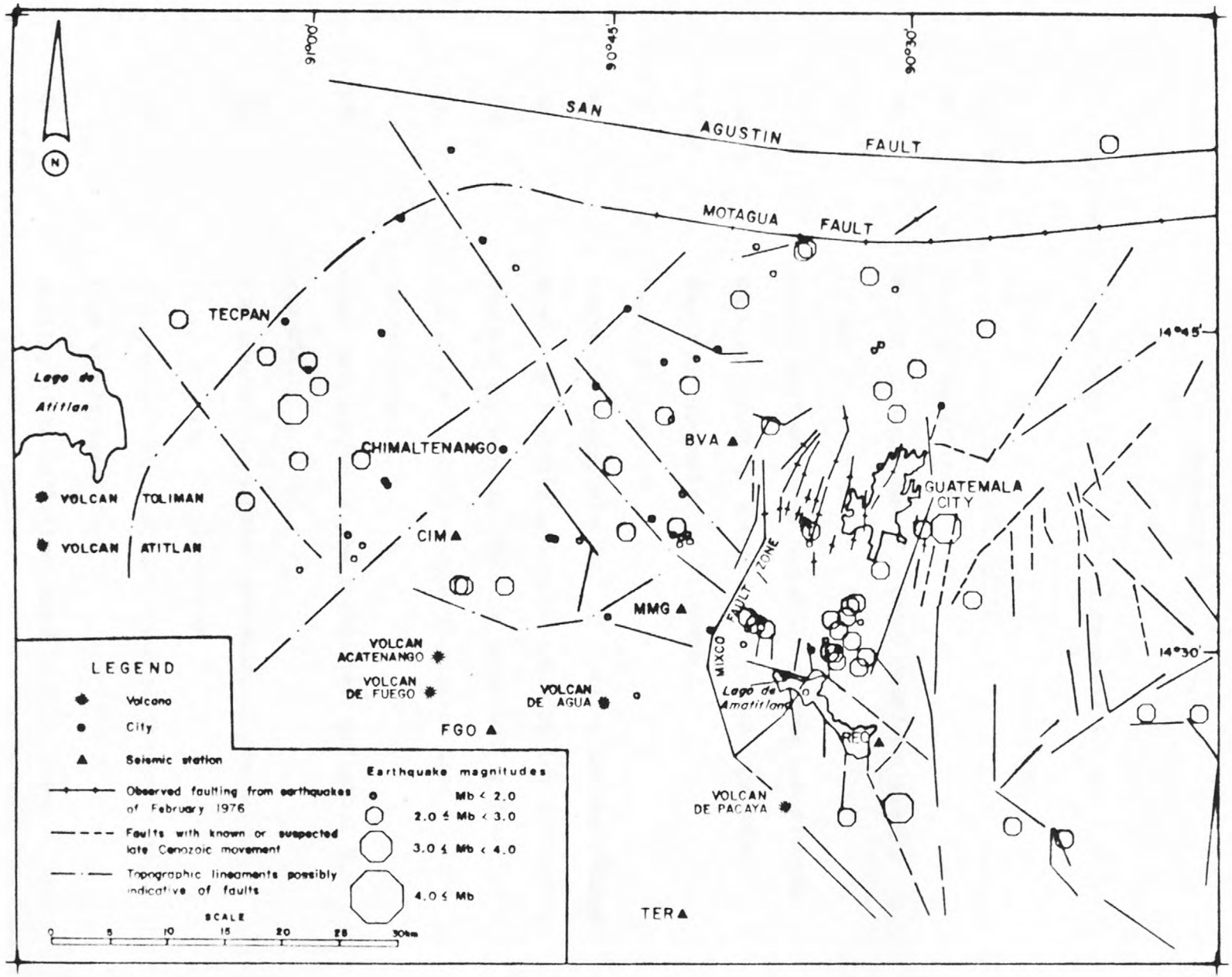

FIGURE 11. June 1976. Quality A and B events only.

Appendix

The hypocentral parameters listed in this appendix are the following:

Abbreviation	Definition
HR	Hour of occurrence.
MN	Minute of occurrence. Coordinated Universal
SEC	Second of occurrence. Time
LAT N	North latitude of epicenter in degrees and minutes.
LONG W	West longitude of epicenter in degrees and minutes.
DEPTH	Depth of hypocenter in kilometers.
MAG	Magnitude.
NP	Number of P-arrivals used in locating the earthquake.
NS	Number of S-arrivals used in locating the earthquake.
GAP	Maximum gap between stations contributing P-arrivals.
D3	Distance to the third closest station used in locating the earthquake.
RMS	Root mean square of the traveltime residuals, R_i in seconds.
ERH	The greatest horizontal deviation of the error ellipsoid from the hypocenter.
ERZ	The greatest vertical deviation of the error ellipsoid from the hypocenter.
Q	Quality of the solution based on the larger of the distances ERH and ERZ:

Quality	Largest Distance
A	2.5 km
B	5.0 km
C	10.0 km
D	10.0 km

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	5	18	53	11.1	14	41.1	90	44.2	2.3	1.8	5	3	227	17	0.18	1.1	2.5	A
	5	18	59	39.4	14	43.8	90	43.6	7.4	2.3	6	0	262	22	0.12	4.2	2.4	B
	5	19	29	15.2	14	41.7	90	45.7	4.1	1.9	6	2	240	19	0.22	2.2	3.5	B
	5	19	30	12.7	14	44.0	91	0.2	2.1	1.9	6	3	309	40	0.23	1.8	3.0	B
	5	19	33	7.0	14	44.1	90	8.2	26.8	2.5	4	1	330	63	0.02	5.1	5.4	C
	5	19	43	5.5	14	30.3	90	37.4	7.7	1.6	6	2	130	18	0.12	0.8	2.0	A
	5	19	44	38.1	14	42.9	91	3.7	7.0	2.2	6	2	315	45	0.11	2.1	3.0	B
	5	19	58	27.7	14	31.9	91	0.1	4.9	1.8	6	2	299	34	0.12	2.0	2.5	B
	5	20	3	13.0	14	43.8	90	38.1	0.1	2.0	6	2	281	29	0.09	1.9	3.1	B
	5	20	27	28.9	14	44.4	90	29.1	7.4	2.6	6	1	299	34	0.05	2.5	2.6	B
	5	20	30	13.0	14	42.9	91	2.7	7.9	2.2	6	4	313	44	0.23	1.7	2.5	A
	5	20	32	17.1	14	35.2	90	42.9	1.2	1.8	4	1	182	21	0.14	1.1	4.3	B
	5	20	46	19.7	14	38.0	90	47.3	2.5	1.8	6	3	196	17	0.19	0.8	2.5	B
	5	20	53	40.4	14	43.2	91	4.4	7.2	2.1	6	2	317	47	0.13	2.4	3.1	B
	5	20	57	3.3	14	52.4	90	39.3	8.8	1.7	6	2	308	38	0.24	2.7	2.5	B
	5	21	5	27.4	14	35.2	90	35.6	0.0	2.0	5	0	184	18	0.16	1.2	8.7	C
	5	21	6	32.6	14	34.5	90	34.4	2.9	2.1	6	1	194	16	0.16	1.3	3.6	B
	5	21	10	48.8	14	43.3	90	43.2	10.1	2.2	6	2	256	21	0.16	2.1	2.2	A
	5	21	13	59.1	14	44.5	90	44.5	6.9	1.6	5	2	268	34	0.17	2.5	2.8	B
	5	21	16	34.6	14	41.0	90	30.9	0.6	1.8	6	3	280	27	0.10	2.2	4.0	B
	5	21	29	15.0	14	42.3	91	3.0	5.0	1.9	6	5	314	44	0.24	1.3	2.7	B
	5	21	36	6.1	14	35.8	90	32.8	3.6	2.5	6	0	224	18	0.09	2.2	3.7	B
	5	21	39	31.2	14	48.2	90	35.0	7.5	2.3	6	2	298	38	0.11	2.5	2.1	A
	5	21	43	59.1	14	43.3	90	42.9	9.2	1.8	6	1	257	21	0.20	2.3	2.2	A
	5	21	51	9.7	14	49.2	90	33.9	6.9	1.6	5	2	318	43	0.13	2.6	2.5	B
	5	22	6	18.4	14	42.8	91	4.6	2.2	1.8	6	1	317	47	0.11	3.0	4.4	B
	5	22	23	54.4	14	31.8	90	57.2	5.0	1.8	6	4	284	29	0.44	1.3	2.1	A
	5	22	33	44.8	14	38.6	90	25.4	0.0	1.9	6	1	289	30	0.11	2.0	7.8	C
	5	22	44	38.4	14	48.4	90	36.5	4.4	2.1	6	3	298	36	0.07	1.5	2.4	A
	5	22	51	29.3	14	52.1	90	48.6	4.4	2.0	6	2	310	39	0.13	2.8	3.3	B
	5	22	55	47.5	14	45.4	90	37.1	8.7	2.2	6	1	286	32	0.25	2.4	1.6	A
	5	22	58	8.4	14	36.6	90	48.3	7.8	2.3	6	0	176	19	0.05	1.9	2.8	B
	5	23	0	35.6	14	37.3	90	46.7	8.9	2.2	6	1	181	16	0.10	1.5	2.6	B
	5	23	9	22.9	14	40.1	90	33.5	0.3	2.2	6	0	262	26	0.05	3.8	6.0	C
	5	23	19	28.6	14	30.8	90	32.7	3.7	2.4	6	0	195	20	0.11	1.8	3.7	B
	5	23	25	10.3	14	45.5	90	59.3	6.0	2.3	6	2	310	39	0.17	2.4	3.0	B
	5	23	37	24.2	14	45.9	90	41.9	5.6	2.2	6	1	286	26	0.12	3.0	2.3	B
	5	23	42	8.7	14	33.7	90	57.5	5.0	1.7	6	4	295	35	0.52	1.4	1.9	A
	6	0	11	2.5	14	45.2	91	0.3	7.1	2.1	6	2	311	41	0.04	2.5	2.5	B
	6	0	27	7.2	14	43.3	90	44.3	12.5	1.8	5	3	256	21	0.14	1.7	1.4	A
	6	0	40	41.3	14	49.2	90	18.9	2.2	2.2	6	3	321	50	0.17	2.1	6.0	C
	6	0	48	43.5	14	47.2	90	36.3	0.2	2.4	6	0	295	35	0.12	9.3	20.1	D
	6	1	7	30.6	14	26.5	90	19.4	0.3	1.9	6	2	302	42	0.13	2.2	4.8	B
	6	1	15	51.8	14	42.4	90	45.8	3.9	1.7	6	4	248	21	0.17	1.0	2.2	A
	6	1	39	50.4	14	51.8	90	58.5	12.2	2.2	4	2	318	48	0.26	3.1	2.9	B

1976		ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	6	1	53	43.2	14	42.9	90	45.9	11.4	1.6	5	3	254	31	0.10	1.8	1.6	A
	6	2	39	19.4	14	41.7	90	43.1	4.1	1.4	6	3	235	19	0.08	1.7	2.8	B
	6	2	56	34.3	14	42.6	90	43.3	7.9	2.2	6	1	248	20	0.18	2.2	2.4	A
	6	2	59	2.7	14	40.9	90	33.3	8.1	1.7	6	2	273	27	0.08	2.2	1.7	A
	6	3	22	20.6	14	40.8	90	45.3	1.1	1.9	6	2	227	18	0.15	2.4	5.0	B
	6	3	23	39.4	14	37.0	90	46.7	0.3	1.9	6	1	176	16	0.23	1.0	6.6	C
	6	3	26	5.4	14	49.3	90	35.1	2.4	2.0	6	3	301	39	0.06	2.0	2.9	B
	6	3	44	53.1	14	45.0	90	33.5	5.5	1.6	6	4	291	35	0.19	1.5	2.0	A
	6	3	50	39.9	14	39.8	90	45.4	0.3	1.9	5	0	212	16	0.12	2.1	8.9	C
	6	3	51	12.3	14	44.6	90	31.6	6.0	2.6	6	1	294	34	0.09	3.2	3.3	B
	6	3	58	38.5	14	42.1	90	40.3	6.1	1.6	6	2	257	24	0.23	2.1	1.9	A
	6	4	4	51.7	14	39.4	90	45.5	2.7	1.8	5	3	207	16	0.21	0.9	2.7	B
	6	4	11	5.4	14	39.5	91	1.2	6.5	3.3	6	0	306	39	0.10	11.3	9.3	D
	6	4	13	49.1	14	41.7	91	2.1	0.5	2.4	6	1	311	42	0.26	2.7	4.0	B
	6	4	23	38.7	14	47.5	90	47.8	7.3	1.8	6	3	291	31	0.13	1.4	2.2	A
	6	4	30	15.9	14	36.5	90	47.6	4.2	1.8	5	2	170	18	0.16	1.5	3.7	B
	6	4	53	55.9	14	34.9	90	34.1	9.5	1.6	6	1	202	17	0.07	1.5	2.4	A
	6	4	56	6.2	14	49.0	90	31.4	2.3	2.0	6	3	304	42	0.26	2.0	3.2	B
	6	5	41	7.6	14	30.8	90	38.8	6.5	1.6	6	4	119	17	0.14	0.5	1.7	A
	6	5	48	48.0	14	38.1	90	32.8	5.5	2.4	6	2	243	22	0.15	1.9	2.4	A
	6	5	53	51.4	14	40.0	90	43.8	0.2	2.1	5	1	209	16	0.07	1.9	5.4	C
	6	5	59	49.3	14	33.6	90	34.3	5.5	1.5	6	2	190	15	0.08	1.3	2.5	B
	6	6	3	21.2	14	33.1	90	34.2	6.6	2.0	4	2	234	30	0.04	1.3	3.3	B
	6	6	15	25.4	14	38.1	90	47.9	10.2	1.5	5	3	202	18	0.12	1.5	1.8	A
	6	6	22	44.9	14	41.1	90	43.5	6.1	2.3	6	1	227	18	0.11	2.0	2.8	B
	6	7	2	38.6	14	47.3	91	1.4	8.7	2.4	6	3	315	44	0.15	2.1	2.6	B
	6	7	44	22.7	14	42.2	90	42.8	3.8	1.8	6	4	243	20	0.14	1.0	1.8	A
	6	7	48	29.8	14	43.0	90	40.2	5.8	2.0	6	5	271	25	0.21	1.0	1.3	A
	6	8	0	37.9	14	38.7	90	47.3	4.8	2.6	6	0	206	16	0.06	2.2	3.3	B
	6	8	8	34.7	14	37.6	90	48.3	9.1	1.9	6	2	196	19	0.07	1.6	2.5	B
	6	8	15	39.8	14	31.8	90	31.2	2.8	1.7	5	3	221	20	0.09	1.0	3.1	B
	6	8	17	46.4	14	31.6	90	36.9	8.7	2.3	6	0	144	16	0.06	1.0	2.0	A
	6	8	24	19.6	14	39.3	90	59.3	4.7	2.5	6	0	302	35	0.08	10.4	8.8	D
	6	8	38	37.9	14	21.0	90	29.9	2.6	2.1	6	1	271	29	0.17	2.8	3.1	B
	6	8	52	12.9	14	46.7	90	33.7	7.1	1.9	6	4	296	38	0.22	1.3	1.5	A
	6	8	57	48.8	14	42.5	90	43.5	3.9	2.6	6	0	247	19	0.04	3.3	3.2	B
	6	8	59	18.9	14	28.8	90	32.2	5.6	2.3	6	0	189	23	0.09	2.2	3.0	B
	6	9	16	25.0	14	47.0	91	3.9	12.5	2.1	5	3	319	48	0.16	2.5	2.7	B
	6	9	40	59.2	14	44.6	91	2.3	8.0	2.2	6	3	314	44	0.17	2.0	2.5	B
	6	9	51	25.3	14	22.9	90	15.3	9.6	2.1	6	1	312	49	0.23	3.3	4.6	B
	6	9	58	23.5	14	41.0	91	9.6	1.2	2.1	6	3	323	54	0.21	2.8	4.0	B
	6	10	5	1.9	14	44.2	91	7.6	1.9	2.3	6	2	322	53	0.10	3.0	3.9	B
	6	10	6	22.6	14	37.5	90	53.5	5.4	1.9	6	1	276	25	0.09	2.6	1.4	B
	6	10	7	24.8	14	38.9	90	34.3	0.5	2.7	6	1	242	24	0.07	2.3	5.2	C
	6	10	9	16.4	14	43.5	90	50.5	6.8	2.3	6	0	278	27	0.08	5.9	2.6	C

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	6	10	15 56.8	14	52.3	90	54.0	2.1	2.2	6	6	317	44	0.25	1.2	3.2	B
	6	10	19 49.6	14	50.7	90	32.3	6.6	2.4	6	2	307	44	0.18	2.0	2.8	B
	6	10	26 14.0	14	36.6	90	48.1	7.3	2.3	6	2	174	19	0.14	1.4	2.7	B
	6	10	28 5.4	14	43.0	90	60.0	5.7	2.1	6	2	308	39	0.10	2.0	2.7	B
	6	10	33 29.6	14	37.9	90	35.1	1.3	1.7	6	2	218	23	0.09	1.9	4.4	B
	6	10	43 6.2	14	40.2	90	44.3	0.3	1.7	6	4	215	16	0.12	1.0	3.4	B
	6	10	55 33.4	14	42.3	90	23.8	0.3	2.5	6	0	304	36	0.12	10.6	26.8	D
	6	11	0 21.0	14	47.6	90	33.6	7.1	2.1	6	3	296	39	0.11	1.6	2.2	A
	6	11	3 20.7	14	40.6	90	44.5	1.8	1.8	6	2	221	17	0.07	1.0	2.9	B
	6	11	10 54.6	14	42.8	90	44.6	9.0	1.8	6	2	250	20	0.26	2.0	2.4	A
	6	11	12 54.9	14	41.6	91	5.1	0.7	2.5	6	3	317	47	0.12	2.5	3.6	B
	6	11	16 22.6	14	30.9	90	32.5	16.6	2.0	5	3	199	20	0.20	1.1	2.1	A
	6	11	21 54.7	14	42.1	90	44.3	5.2	1.5	5	3	268	30	0.19	1.2	2.3	A
	6	11	36 12.5	14	41.5	90	43.1	2.1	1.8	6	2	232	19	0.08	2.3	4.0	B
	6	11	40 1.7	14	40.7	91	5.3	4.6	2.7	6	2	318	47	0.06	2.7	3.3	B
	6	11	51 55.8	14	41.6	90	44.0	0.2	1.5	6	4	234	18	0.14	1.2	3.4	B
	6	11	53 23.0	14	51.3	90	37.3	10.4	2.0	6	2	305	39	0.25	1.9	2.2	A
	6	12	7 24.4	14	44.0	90	41.9	7.1	1.6	6	2	270	23	0.11	2.3	2.1	A
	6	12	16 40.9	14	40.5	90	44.0	11.0	2.4	6	1	218	16	0.15	1.8	2.4	A
	6	12	29 5.6	14	50.1	90	38.2	4.9	1.8	6	5	304	42	0.12	1.1	2.0	A
	6	12	33 6.9	14	39.3	90	43.6	0.0	1.6	6	2	197	16	0.21	1.0	7.2	C
	6	12	38 19.5	14	36.7	90	56.3	4.3	2.0	6	2	289	29	0.18	2.0	1.8	A
	6	12	44 32.3	14	39.8	90	45.1	1.5	1.7	6	3	211	16	0.16	1.9	4.5	B
	6	12	48 5.3	14	46.4	90	32.3	4.8	1.7	6	3	297	37	0.09	1.7	2.5	A
	6	12	59 17.7	14	38.1	90	34.7	0.5	1.5	5	4	226	23	0.12	1.0	3.4	B
	6	13	39 20.5	14	45.6	90	30.9	0.2	2.0	6	6	296	36	0.13	1.1	2.7	B
	6	13	40 23.4	14	45.6	90	59.3	10.0	1.9	4	3	310	41	0.18	2.0	3.7	B
	6	13	42 40.0	14	45.4	90	43.5	8.9	2.4	4	2	322	37	0.09	3.2	2.2	B
	6	14	3 30.7	14	36.2	90	32.6	0.3	1.5	6	4	229	18	0.17	1.1	3.6	B
	6	14	4 33.6	14	41.4	90	30.4	0.1	1.9	6	4	284	28	0.19	2.4	4.1	B
	6	14	20 40.4	14	37.0	90	47.8	14.2	1.4	6	5	181	18	0.11	0.7	1.1	A
	6	14	21 31.5	14	36.5	90	50.4	12.0	1.3	4	4	196	19	0.20	0.9	1.3	A
	6	14	35 22.7	14	37.0	90	34.7	0.3	1.7	5	3	258	30	0.13	1.1	4.4	B
	6	14	37 8.9	14	27.1	90	36.6	0.8	1.6	5	1	169	24	0.08	1.0	6.3	C
	6	14	37 38.8	14	41.3	90	46.5	0.4	1.7	5	0	264	28	0.03	3.9	8.5	C
	6	14	48 42.4	14	45.2	91	5.2	4.4	1.6	6	3	319	49	0.10	2.2	4.5	B
	6	15	3 2.1	14	29.4	90	36.0	0.1	1.8	5	1	136	20	0.10	1.0	5.4	C
	6	15	13 55.7	14	47.2	90	40.9	1.5	2.0	6	2	294	29	0.25	2.1	3.1	B
	6	15	17 17.0	14	47.9	90	30.0	1.5	2.0	6	4	304	40	0.08	2.0	3.3	B
	6	15	29 39.2	14	40.9	90	34.8	3.5	2.4	6	1	272	28	0.08	3.0	2.1	B
	6	15	31 24.1	14	39.2	91	4.0	5.0	1.8	6	4	315	43	0.12	1.1	2.5	B
	6	15	46 31.3	14	39.0	91	1.3	5.0	1.8	6	4	308	39	0.25	1.4	2.3	A
	6	15	52 28.0	14	36.0	90	47.3	1.1	1.8	6	1	196	17	0.03	1.8	5.3	C
	6	15	59 5.0	14	39.8	90	58.6	5.6	1.7	6	1	301	35	0.09	2.4	2.2	A
	6	16	2 29.1	14	38.1	91	4.0	2.7	2.3	6	2	314	43	0.12	2.2	3.4	B

1976		ORIGIN HR	TIME MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	6	16	13	3.2	14	55.5	90	60.0	25.1	2.1	5	3	324	55	0.20	2.3	3.1	B
	6	16	13	58.6	14	37.8	90	48.6	5.4	1.5	5	2	202	19	0.24	1.0	1.8	A
	6	16	14	55.3	14	36.8	90	56.5	3.5	2.1	6	1	290	29	0.06	2.6	2.2	B
	6	16	16	51.4	14	43.4	91	0.2	8.8	2.1	6	2	309	40	0.17	2.3	2.2	A
	6	16	24	11.3	14	37.1	91	1.9	2.1	1.8	6	2	310	39	0.13	1.4	5.7	C
	6	16	25	18.9	14	42.5	90	39.9	7.7	2.0	6	1	269	25	0.09	2.2	1.7	A
	6	16	29	0.5	14	45.9	90	45.9	8.4	1.8	6	1	280	27	0.07	2.7	2.4	B
	6	16	39	33.8	14	39.3	90	45.6	2.2	1.5	6	3	206	15	0.18	0.8	2.7	B
	6	16	40	0.3	14	41.9	91	5.6	2.9	2.1	6	3	318	48	0.12	1.7	3.7	B
	6	16	41	23.8	14	36.9	90	54.4	13.0	2.8	5	0	280	26	0.22	5.3	2.5	C
	6	16	47	47.0	14	42.4	90	44.9	12.2	2.0	6	2	246	20	0.07	1.4	2.0	A
	6	17	10	38.3	14	42.7	90	23.6	0.1	2.1	6	0	305	36	0.19	10.8	30.3	D
	6	17	14	59.4	14	29.4	90	37.6	0.5	2.1	6	0	121	20	0.10	0.9	7.2	C
	6	17	16	27.3	14	36.1	91	0.2	5.0	1.9	6	4	305	35	0.28	1.4	1.9	A
	6	17	24	26.3	14	31.1	91	4.4	5.0	1.7	6	4	310	42	0.20	1.0	2.9	B
	6	18	12	3.9	14	17.0	90	31.0	2.4		5	0	279	33	0.21	8.3	4.7	C
	6	23	3	22.5	14	37.0	90	40.5	1.2	1.8	6	1	132	20	0.11	0.9	4.1	B
	6	23	27	15.5	14	37.3	90	40.6	7.9	1.7	5	0	178	26	0.02	1.5	2.1	A
	6	23	40	7.2	14	41.4	90	43.9	6.8	1.8	6	0	232	18	0.07	2.8	2.7	B
	6	23	55	20.8	14	35.7	90	42.2	2.5	2.0	6	0	132	17	0.11	0.8	2.8	B
	7	0	1	19.6	14	36.8	90	39.8	4.3	1.9	6	0	121	21	0.08	0.9	2.2	A
	7	0	9	1.0	14	35.2	90	40.9	2.6	1.7	6	0	116	19	0.12	0.8	2.3	A
	7	0	26	1.8	14	37.1	90	40.3	6.2	1.6	6	0	131	21	0.11	1.0	2.0	A
	7	0	45	12.1	14	50.8	90	47.8	5.0	1.7	5	3	306	36	0.15	2.1	2.9	B
	7	0	54	30.7	14	31.0	90	34.5	6.9	2.2	6	0	169	18	0.11	1.3	2.6	B
	7	1	12	41.7	14	43.2	90	44.2	6.0	1.3	6	4	255	21	0.16	1.0	1.7	A
	7	1	22	18.2	14	43.3	90	30.2	12.7	1.6	6	2	294	32	0.14	2.4	1.8	A
	7	1	39	49.2	14	30.2	90	37.5	6.2	1.8	6	0	127	18	0.08	0.9	2.2	A
	7	1	46	6.3	14	35.0	90	44.6	8.3	2.8	6	0	135	15	0.04	1.0	2.1	A
	7	1	57	41.3	14	34.4	90	41.1	0.6	1.3	4	2	261	23	0.23	1.5	3.1	B
	7	2	7	16.0	14	37.1	90	40.2	2.7	1.8	6	1	130	21	0.08	0.9	2.9	B
	7	2	18	50.7	14	40.6	90	45.3	0.3	2.2	6	0	224	17	0.04	2.4	7.1	C
	7	2	35	17.1	14	38.8	90	40.0	7.5	2.7	6	0	159	22	0.05	1.6	2.1	A
	7	2	43	17.9	14	42.0	90	34.2	1.7	2.1	6	0	280	29	0.02	5.1	4.3	C
	7	2	47	39.1	14	35.8	90	41.8	5.3	2.0	6	0	130	18	0.11	0.8	2.0	A
	7	3	10	58.2	14	43.1	90	45.8	4.3	1.7	6	2	256	22	0.22	2.4	3.3	B
	7	3	19	1.6	14	31.3	90	36.5	4.3	1.4	5	1	147	16	0.25	0.8	2.8	B
	7	3	20	14.3	14	37.8	90	40.1	5.4	1.7	5	0	142	21	0.02	1.3	2.6	B
	7	3	28	11.9	14	34.5	90	32.3	0.0	1.9	6	1	220	16	0.21	2.1	6.2	C
	7	3	40	10.3	14	37.2	90	40.7	0.7	1.8	5	0	177	26	0.12	1.4	5.1	C
	7	3	47	56.6	14	40.6	90	40.2	0.2	2.8	6	0	220	22	0.15	2.1	6.2	C
	7	3	54	18.4	14	41.4	90	43.3	1.9	2.2	5	0	231	18	0.04	2.6	5.3	C
	7	3	58	2.9	14	39.9	90	39.8	14.0	2.0	6	0	198	23	0.12	2.4	2.3	A
	7	4	12	35.8	14	42.3	90	43.1	5.2	2.2	6	0	244	20	0.03	3.2	2.8	B
	7	4	15	55.7	14	35.8	90	40.8	6.8	2.1	5	0	121	19	0.07	0.9	2.0	A

1976		ORIGIN HR	TIME MN.	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	7	4	24	8.7	14	37.3	90	39.8	3.6	1.7	6	0	128	21	0.19	1.0	2.5	B
	7	4	33	47.9	14	41.7	90	45.8	5.2	2.0	6	0	239	19	0.15	3.1	3.2	B
	7	4	53	38.0	14	42.8	90	44.4	8.3	1.7	5	0	250	32	0.07	13.7	7.1	D
	7	4	59	33.6	14	38.1	90	40.9	9.0	2.0	5	1	245	27	0.17	1.4	2.2	A
	7	5	6	34.7	14	43.2	90	32.9	4.2	2.9	6	0	287	31	0.06	6.1	3.7	C
	7	5	10	46.4	14	35.6	90	55.6	1.9	1.9	6	1	285	27	0.11	2.7	3.3	B
	7	5	27	29.4	14	42.4	90	34.4	5.1	2.4	6	0	282	30	0.12	5.0	2.2	C
	7	5	34	47.6	14	44.3	90	42.8	8.7	1.9	6	2	269	22	0.11	1.7	1.9	A
	7	5	45	44.4	14	41.1	90	44.1	2.2	2.6	6	0	227	17	0.10	2.5	4.4	B
	7	5	59	11.3	14	38.4	90	48.2	9.2	2.1	6	0	210	18	0.05	2.5	2.7	B
	7	6	0	25.5	14	43.5	91	0.9	4.4	2.1	6	1	310	41	0.08	3.0	3.2	B
	7	6	1	23.2	14	42.8	90	33.8	6.9	2.1	6	1	284	31	0.05	3.2	2.0	B
	7	6	1	51.3	14	39.3	90	49.9	12.8	2.3	6	1	242	21	0.13	2.0	1.9	A
	7	6	10	50.2	14	42.8	90	43.3	7.4	1.7	4	2	276	32	0.06	2.1	3.5	B
	7	6	21	27.5	14	42.9	90	50.4	9.8	2.0	6	2	274	26	0.11	1.4	1.9	A
	7	6	22	35.2	14	37.7	90	49.5	7.9	2.5	6	0	213	20	0.08	2.8	2.7	B
	7	6	29	56.2	14	41.2	90	43.4	4.6	1.9	6	2	228	18	0.10	2.0	3.1	B
	7	7	11	5.4	14	34.8	90	43.8	5.2	2.5	6	0	129	14	0.08	0.8	2.1	A
	7	7	42	0.3	14	35.3	90	43.9	7.5	1.7	6	1	137	14	0.16	0.9	2.0	A
	7	7	57	1.6	14	29.4	90	33.3	0.0	2.0	5	0	174	22	0.19	1.6	11.1	D
	7	8	1	49.8	14	37.8	90	41.8	10.8	2.5	6	0	161	18	0.01	1.4	2.2	A
	7	8	16	3.1	14	38.1	90	49.7	11.7	1.7	6	4	221	21	0.22	1.2	1.5	A
	7	8	45	5.7	14	30.3	91	2.7	0.3	1.9	6	1	304	39	0.08	1.9	8.1	C
	7	9	5	32.7	14	41.1	90	34.0	4.9	1.9	6	2	276	28	0.08	1.8	2.1	A
	7	9	14	54.2	14	36.3	90	41.3	2.2	2.0	6	0	132	18	0.06	0.8	3.0	B
	7	9	16	1.8	14	36.4	90	41.7	0.5	1.7	6	0	137	18	0.03	0.8	5.6	C
	7	9	16	20.7	14	36.3	90	41.8	0.7	2.3	6	0	137	18	0.08	0.8	5.0	C
	7	9	30	36.1	14	37.0	90	47.6	3.3	1.7	5	1	180	18	0.06	1.7	4.2	B
	7	9	31	38.2	14	40.2	90	42.2	3.1	2.1	6	0	209	19	0.13	2.0	3.4	B
	7	9	55	13.8	14	36.8	90	43.2	9.3	2.3	6	0	154	15	0.16	1.2	2.1	A
	7	10	35	1.9	14	40.9	90	45.8	0.7	2.5	6	0	230	18	0.07	2.7	6.2	C
	7	10	40	22.5	14	37.3	90	47.2	7.0	1.6	6	1	183	17	0.10	1.5	2.8	B
	7	10	52	9.3	14	36.2	90	41.1	6.7	1.8	6	0	130	19	0.08	0.9	1.9	A
	7	11	38	32.7	14	36.2	90	41.8	1.8	2.4	6	0	135	18	0.05	0.8	3.4	B
	7	11	50	44.1	14	37.3	90	40.4	4.2	2.1	6	0	136	20	0.06	1.0	2.4	A
	7	12	8	4.3	14	31.3	90	32.9	1.9	1.5	6	0	194	19	0.19	1.7	5.0	B
	7	12	10	17.9	14	36.8	90	40.6	0.2	1.7	6	0	132	20	0.06	0.8	6.5	C
	7	12	11	58.5	14	42.4	90	36.9	9.6	1.9	6	0	277	29	0.17	4.1	1.6	B
	7	12	26	9.3	14	42.5	90	44.6	9.0	1.9	6	1	247	20	0.24	2.2	2.5	A
	7	12	27	1.6	14	36.5	90	41.4	5.0	2.7	5	0	136	18	0.06	0.9	2.4	A
	7	12	30	28.2	14	32.1	90	39.4	7.3	1.6	6	0	118	18	0.17	0.8	1.5	A
	7	12	31	8.0	14	36.9	90	40.8	3.5	1.7	5	2	236	26	0.05	1.1	2.4	A
	7	12	46	0.3	14	37.3	90	40.9	3.4	1.8	6	0	143	20	0.11	0.9	2.7	B
	7	12	55	59.5	14	37.1	90	41.4	0.5	2.5	6	0	145	18	0.03	0.9	5.7	C
	7	13	13	43.0	14	43.3	90	43.1	9.1	2.6	6	0	257	21	0.17	3.9	2.3	B

1976		ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	7	13	19	49.8	14	36.1	90	41.9	6.7	2.4	6	0	136	17	0.05	0.9	1.9	A
	7	13	37	14.6	14	36.1	90	42.3	8.7	2.2	6	0	137	17	0.09	1.0	1.9	A
	7	13	41	38.7	14	35.1	90	41.4	7.6	1.4	5	4	137	18	0.22	0.6	0.9	A
	7	13	48	19.8	14	31.5	90	38.0	10.1	1.5	5	0	131	16	0.11	1.0	2.1	A
	7	14	8	53.4	14	29.5	90	38.3	2.8	2.2	6	2	116	19	0.21	0.6	3.1	B
	7	14	11	20.4	14	29.8	90	36.9	5.8	1.3	6	4	130	19	0.21	0.6	1.3	A
	7	14	17	0.4	14	42.1	90	44.8	0.1	2.4	6	2	242	19	0.10	2.9	5.6	C
	7	14	27	7.0	14	30.8	90	33.2	4.0	2.9	6	0	186	19	0.02	1.6	3.5	B
	7	14	52	34.5	14	40.3	90	58.1	9.9	3.0	6	0	300	34	0.13	9.2	3.4	C
	7	15	6	40.0	14	46.6	90	44.1	0.2	2.3	6	2	285	27	0.15	2.3	4.5	B
	7	15	8	9.0	14	41.0	90	57.4	6.4	2.7	6	0	299	34	0.09	9.4	5.5	C
	7	15	19	49.1	14	44.3	90	31.8	11.8	2.2	5	3	303	33	0.24	1.7	1.8	A
	7	15	21	42.5	14	36.3	90	41.9	9.7	1.7	5	3	183	23	0.14	1.2	1.7	A
	7	15	43	28.7	14	42.7	90	44.7	11.1	2.3	6	5	250	20	0.25	0.9	1.2	A
	7	15	51	30.2	14	40.1	90	47.6	0.6	1.8	4	1	229	39	0.26	8.9	19.8	D
	7	15	57	4.8	14	38.2	90	48.0	7.0	2.8	6	0	204	18	0.03	2.3	2.9	B
	7	16	28	35.9	14	36.5	90	41.8	2.5	2.5	6	1	140	18	0.12	0.8	3.1	B
	7	16	46	10.9	14	45.9	90	31.2	1.1	3.0	6	1	298	36	0.07	3.2	4.2	B
	7	16	52	21.3	14	30.5	90	36.0	0.1	1.9	5	2	146	18	0.20	1.0	6.3	C
	7	17	30	47.0	14	29.5	90	36.5	4.7	2.4	6	0	132	20	0.11	1.0	2.9	B
	7	17	34	21.7	14	38.9	91	9.5	0.4	2.3	4	3	334	56	0.23	3.4	5.3	C
	7	17	38	2.4	14	39.4	90	42.7	9.8	1.8	5	3	232	27	0.13	0.9	1.1	A
	7	17	51	14.3	14	45.3	90	44.5	16.4	1.7	3	3	275	25	0.04	1.6	1.8	A
	7	18	21	47.9	14	47.3	90	30.8	3.3	1.8	6	4	301	39	0.25	1.3	3.1	B
	7	18	24	35.9	14	38.3	90	29.3	0.0	2.5	6	2	268	23	0.18	1.5	5.2	C
	7	18	27	14.0	14	44.7	91	2.8	5.0	2.3	6	3	315	45	0.13	1.3	3.7	B
	7	18	34	22.1	14	49.5	90	39.8	6.9	2.1	6	2	301	33	0.03	2.6	2.3	B
	7	18	38	13.9	14	41.2	90	30.4	9.2	2.9	6	1	283	28	0.08	2.4	2.3	A
	7	18	44	59.7	14	30.5	90	32.1	3.0	2.2	5	5	203	21	0.09	0.9	2.3	A
	7	19	13	2.1	14	31.0	90	39.6	4.4	2.2	6	0	113	17	0.06	0.8	1.6	A
	7	19	45	40.3	14	50.1	90	33.0	8.1	2.0	6	2	305	43	0.17	1.9	2.6	B
	7	19	51	41.0	14	44.1	90	49.3	2.8	1.7	4	3	287	32	0.13	1.4	4.2	B
	7	19	59	52.7	14	45.1	91	3.1	4.4	2.6	6	2	316	46	0.13	2.6	3.6	B
	7	20	6	12.4	14	40.4	91	3.5	4.6	2.3	6	3	314	43	0.22	1.8	2.8	B
	7	20	15	17.0	14	42.1	91	0.7	4.9	2.3	6	2	309	40	0.12	2.4	2.5	B
	7	20	38	2.8	14	29.5	90	33.1	0.2	2.3	6	2	179	21	0.18	1.3	5.6	C
	7	20	38	52.4	14	42.5	91	3.6	2.7	2.5	6	2	315	45	0.18	2.2	3.6	B
	7	20	40	11.6	14	39.3	90	32.3	4.5	1.9	5	1	259	24	0.06	2.5	3.1	B
	7	20	41	5.8	14	30.7	91	2.0	2.1	1.7	6	2	302	38	0.15	1.7	4.0	B
	7	20	50	17.0	14	24.5	90	22.0	0.2	2.2	6	2	297	37	0.13	1.7	4.8	B
	7	21	10	7.9	14	36.9	90	50.8	10.8	2.9	6	1	222	20	0.06	1.9	2.1	A
	7	21	20	0.1	14	30.2	90	38.7	10.4	1.9	6	1	117	18	0.57	0.8	1.9	A
	7	21	22	35.0	14	36.9	90	41.1	3.6	2.4	6	3	140	19	0.22	0.6	1.3	A
	7	21	23	58.0	14	43.4	90	42.7	8.3	2.1	6	4	259	21	0.15	1.4	1.7	A
	7	21	38	19.9	14	31.7	90	31.5	0.3	1.7	5	5	217	19	0.19	1.1	3.7	B

1976	ORIGIN HR	TIME MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB 7	21	53	43.7	14	41.3	90	44.2	2.4	2.4	6	2	231	18	0.13	1.0	3.3	B
7	22	12	1.1	14	38.5	90	39.7	8.5	2.0	6	4	146	22	0.27	1.1	1.4	A
7	22	22	47.9	14	36.3	90	41.1	10.3	1.9	6	6	130	19	0.15	0.5	0.8	A
7	22	26	39.1	14	42.5	90	41.8	9.7	1.9	6	5	252	22	0.28	0.9	0.9	A
7	22	29	39.7	14	36.4	90	41.2	5.6	2.0	6	1	132	19	0.06	0.8	2.0	A
7	22	31	35.4	14	43.4	90	57.4	2.5	2.0	6	1	302	35	0.09	2.9	3.1	B
7	22	43	41.9	14	26.7	90	34.6	3.2	2.3	6	0	119	19	0.11	1.5	4.7	B
7	22	54	35.3	14	51.0	90	36.8	7.9	2.4	6	3	305	39	0.21	1.6	2.4	A
7	23	5	4.1	14	29.2	90	38.2	4.3	1.5	5	4	154	21	0.08	0.7	1.9	A
7	23	11	46.1	14	39.7	90	38.4	11.5	2.3	6	3	138	25	0.34	1.6	1.2	A
7	23	53	50.9	14	37.6	90	35.9	0.4	2.1	6	1	202	22	0.13	1.6	5.0	C
7	23	56	13.2	14	36.9	90	40.5	11.7	2.2	6	5	132	20	0.14	0.6	0.8	A
7	23	58	26.2	14	36.1	90	40.2	7.3	2.1	5	2	159	21	0.09	0.7	1.0	A
7	23	59	57.4	14	42.4	90	57.7	6.0	3.1	6	0	302	35	0.07	10.1	7.5	D
8	0	9	1.5	14	45.6	91	1.5	10.1	2.7	6	0	314	43	0.09	12.9	11.2	D
8	0	15	7.5	14	37.0	90	40.7	3.7	2.5	6	0	135	20	0.04	0.9	2.5	A
8	0	23	51.8	14	35.8	90	41.7	0.8	1.5	6	1	129	18	0.20	0.7	3.5	B
8	0	36	34.4	14	48.6	91	6.7	1.6	1.9	6	1	323	53	0.09	3.3	6.8	C
8	1	19	27.6	14	41.3	90	42.1	6.0	2.5	6	0	231	20	0.05	2.6	2.5	B
8	1	32	18.8	14	41.0	90	35.3	3.7	1.9	6	2	274	28	0.34	2.0	1.8	A
8	1	35	32.5	14	42.0	90	46.4	6.1	1.6	6	3	246	21	0.10	1.9	2.2	A
8	1	36	15.7	14	36.5	90	40.6	6.2	2.1	6	1	127	20	0.16	0.8	1.9	A
8	1	44	45.5	14	35.8	90	41.3	6.3	1.7	5	1	170	23	0.12	1.2	1.8	A
8	2	5	10.1	14	37.9	90	41.2	3.8	1.5	5	2	195	26	0.09	1.1	2.7	B
8	2	21	11.5	14	44.1	91	1.4	10.9	1.9	6	3	312	42	0.24	1.7	2.2	A
8	2	42	0.9	14	43.8	91	4.1	10.5	2.0	6	2	317	47	0.09	2.1	2.8	B
8	2	53	11.6	14	36.8	90	41.4	0.5	1.5	5	2	140	18	0.07	0.8	4.0	B
8	2	53	51.3	14	41.3	90	49.5	4.7	1.7	6	2	257	23	0.06	2.3	2.9	B
8	2	56	44.0	14	37.3	90	40.4	6.6	2.3	6	1	137	20	0.07	1.0	2.0	A
8	2	59	27.8	14	41.2	90	44.4	5.0	1.9	6	3	229	18	0.07	1.9	2.4	A
8	3	0	59.9	14	45.7	90	31.1	18.4	1.8	4	1	297	41	0.06	3.0	2.3	B
8	3	6	9.8	14	42.3	90	46.5	9.8	1.3	6	4	249	21	0.19	1.1	1.3	A
8	3	7	15.2	14	36.1	90	50.3	5.5	2.3	6	0	181	18	0.16	2.7	2.9	B
8	3	49	60.0	14	41.9	90	43.8	6.0	2.3	6	2	239	19	0.08	2.1	2.8	B
8	3	53	36.2	14	20.2	90	26.9	1.2	2.1	6	1	291	34	0.16	3.3	3.7	B
8	3	56	54.7	14	41.8	90	43.3	4.5	2.0	6	1	237	19	0.06	2.2	3.0	B
8	3	59	7.8	14	43.2	90	43.4	6.4	2.0	6	2	255	21	0.13	2.2	2.5	B
8	4	13	40.8	14	40.4	90	44.2	3.5	1.5	6	2	218	16	0.18	1.9	3.6	B
8	4	38	31.5	14	54.2	90	37.9	2.3	3.1	6	0	311	42	0.07	11.2	26.2	D
8	4	52	5.9	14	38.0	91	2.2	6.6	2.3	6	0	311	40	0.10	11.5	9.7	D
8	5	23	45.3	14	39.3	90	59.4	6.9	2.1	6	3	303	36	0.19	1.4	2.1	A
8	5	35	25.6	14	39.9	90	44.4	0.7	2.2	6	0	211	16	0.02	2.0	6.2	C
8	5	42	30.6	14	47.3	90	30.9	0.3	1.7	6	2	301	39	0.15	2.4	4.4	B
8	6	7	7.5	14	35.8	90	43.3	7.0	2.1	6	0	140	15	0.03	0.9	2.1	A
8	6	12	29.3	14	39.4	90	32.5	0.0	2.3	6	1	259	24	0.19	2.9	5.7	C

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB 8	6	25	16.8	14	36.7	90	48.4	4.5	1.8	6	2	179	19	0.10	1.6	3.4	B
8	6	27	48.1	14	36.9	90	47.6	5.9	1.4	6	2	179	18	0.13	1.5	3.0	B
8	6	37	34.4	14	36.9	90	42.2	0.3	1.7	6	2	149	17	0.08	0.9	4.2	B
8	6	45	13.9	14	37.3	90	48.6	6.6	1.6	6	3	193	19	0.05	0.9	1.5	A
8	6	59	12.7	14	37.8	90	41.5	3.4	2.2	6	0	158	19	0.02	1.1	2.9	B
8	7	24	2.2	14	40.4	90	45.8	1.7	1.8	6	1	224	17	0.07	2.3	4.7	B
8	7	36	1.0	14	43.7	90	44.4	14.0	2.3	6	2	261	22	0.18	2.0	2.2	A
8	8	41	39.5	14	48.4	91	13.6	0.6	3.0	6	0	330	65	0.09	4.8	49.9	D
8	9	37	29.5	14	47.8	90	54.0	5.0	1.8	6	5	306	37	0.14	1.2	2.6	B
8	9	40	16.9	14	41.0	90	44.7	5.3	2.4	6	0	228	17	0.01	2.6	3.1	B
8	9	42	48.9	14	35.6	90	42.5	2.7	1.4	6	3	133	16	0.12	0.6	1.4	A
8	10	11	36.9	14	45.5	90	43.2	11.3	2.5	6	0	279	25	0.12	5.4	2.1	C
8	10	16	26.4	14	42.3	90	44.2	9.4	1.9	6	3	244	19	0.15	1.0	1.4	A
8	10	45	44.4	14	37.0	90	40.8	2.4	1.6	6	2	137	20	0.11	0.8	2.8	B
8	10	54	12.2	14	37.3	90	53.4	13.5	1.5	6	2	275	24	0.16	1.8	1.6	A
8	11	9	30.6	14	45.4	90	43.0	10.0	1.7	6	2	279	25	0.11	1.3	1.6	A
8	11	20	8.5	14	37.3	90	48.0	8.7	1.8	6	2	190	18	0.10	1.5	2.6	B
8	11	25	45.9	14	42.5	90	38.9	2.7	2.2	6	0	275	26	0.05	4.2	2.0	B
8	11	27	15.6	14	44.4	90	51.5	6.2	1.9	5	2	268	29	0.16	1.6	2.6	B
8	11	35	0.7	14	43.1	90	42.4	8.8	1.5	5	2	282	33	0.07	2.1	2.2	A
8	11	42	22.7	14	29.4	90	35.1	6.5	1.3	6	1	147	20	0.20	1.1	2.7	B
8	11	42	48.7	14	45.0	90	27.0	10.5	1.7	6	1	304	35	0.22	2.7	2.8	B
8	12	29	10.5	14	45.8	91	9.8	4.5	2.8	6	1	325	58	0.06	3.6	5.1	C
8	12	30	24.8	14	34.4	90	35.6	0.0	2.0	6	1	179	17	0.13	1.2	5.5	C
8	12	36	51.9	14	44.6	91	1.2	5.0	2.0	6	4	312	42	0.20	1.7	2.7	B
8	12	38	5.1	14	37.6	90	56.6	7.1	1.8	6	1	291	30	0.14	2.8	1.6	B
8	12	42	11.3	14	41.2	90	44.8	5.1	2.2	6	1	231	18	0.06	2.1	3.1	B
8	12	50	27.1	14	38.4	91	4.1	6.7	2.9	6	0	314	43	0.12	12.5	13.1	D
8	12	56	29.7	14	41.6	90	43.8	9.0	1.5	5	1	263	30	0.10	2.1	2.5	B
8	13	10	50.5	14	47.3	91	6.8	4.2	2.2	6	2	322	53	0.08	2.6	5.7	C
8	13	19	39.9	14	50.7	90	43.4	5.3	1.5	6	2	306	34	0.13	2.7	2.8	B
8	13	21	25.7	14	28.8	90	36.0	8.5	1.3	5	3	174	21	0.08	0.8	1.3	A
8	14	45	7.9	14	45.9	91	6.7	0.9	2.2	6	4	322	52	0.22	1.8	4.8	B
8	15	15	1.5	14	31.0	90	37.9	5.2	1.7	6	1	129	17	0.07	0.8	2.0	A
8	16	14	50.0	14	37.9	90	39.6	6.4	2.3	6	1	133	22	0.13	1.2	2.1	A
8	18	15	53.2	14	49.8	90	35.6	9.0	1.9	2	3	322	39	0.03	3.0	2.3	B
8	18	30	34.4	14	44.5	91	2.3	0.1	2.1	6	0	314	44	0.16	9.6	35.6	D
8	21	16	52.4	14	43.8	90	32.8	5.6	2.9	6	1	289	32	0.04	2.4	2.3	A
9	0	26	45.9	14	41.9	90	42.8	6.9	2.1	6	1	239	20	0.10	1.1	1.8	A
9	1	29	3.7	14	44.3	91	3.4	10.8	2.2	6	2	316	46	0.20	2.1	2.7	B
9	1	43	51.1	14	39.6	90	43.4	2.9	2.0	6	2	202	17	0.06	0.8	2.2	A
9	3	0	32.0	14	37.8	90	57.1	2.9	2.0	6	3	293	31	0.13	1.4	2.1	A
9	5	28	30.6	14	30.3	90	33.7	2.6	1.9	6	2	175	20	0.13	1.3	4.3	B
9	5	30	9.5	14	42.2	90	43.2	10.8	1.7	5	5	242	19	0.23	0.9	1.0	A
9	5	42	12.5	14	38.6	90	31.8	0.7	2.5	6	1	256	23	0.09	2.8	5.3	C

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB 9	6	15	2.6	14	30.8	90	59.9	0.4	2.2	6	3	294	34	0.23	1.8	3.8	B
9	6	45	46.2	14	29.9	90	35.2	0.8	2.3	6	3	150	19	0.22	0.9	4.4	B
9	7	14	19.2	14	41.9	90	43.5	6.0	2.7	6	0	238	19	0.06	3.0	2.7	B
9	8	13	20.0	14	43.2	90	42.4	13.8	1.9	5	4	283	22	0.29	1.1	1.1	A
9	9	45	27.1	14	46.2	90	40.2	11.5	1.9	5	4	310	40	0.24	1.2	1.4	A
9	9	57	54.8	14	38.0	90	32.4	3.3	2.5	6	2	246	22	0.13	2.2	3.5	B
9	12	29	15.0	14	49.4	90	36.5	12.1	2.0	6	4	301	37	0.19	1.4	1.3	A
9	13	29	12.9	14	38.7	90	35.2	3.8	2.6	6	1	231	24	0.28	2.0	2.7	B
9	15	15	22.9	14	41.3	90	43.9	3.3	2.1	6	5	231	18	0.18	1.0	1.7	A
9	17	57	25.7	14	38.3	90	48.6	18.5	1.9	6	6	213	19	0.17	0.8	0.9	A
9	18	35	24.6	14	42.3	90	32.8	5.8	1.9	6	5	285	30	0.08	1.1	1.3	A
9	18	54	11.6	14	44.1	90	41.5	10.9	2.0	6	6	272	24	0.35	1.0	0.8	A
9	19	29	54.9	14	47.9	90	58.2	7.5	1.8	6	6	312	42	0.23	1.0	2.1	A
9	19	35	14.6	14	32.0	90	52.5	2.5	2.6	5	5	215	21	0.28	1.1	2.3	A
9	19	43	58.7	14	43.4	90	19.7	1.5	2.0	5	4	314	43	0.15	1.6	4.8	B
9	21	15	19.9	15	3.7	90	29.3	0.6	3.1	6	0	325	65	0.16	4.8	51.7	D
9	21	54	19.8	14	45.5	90	32.0	0.1	1.9	5	5	310	35	0.20	1.3	2.7	B
9	21	55	51.3	14	43.8	91	4.6	9.6	2.1	6	6	317	48	0.24	1.4	2.0	A
9	22	25	13.2	14	29.6	90	30.0	8.5	2.3	6	6	239	24	0.19	0.9	0.9	A
9	22	40	33.8	14	43.0	90	32.8	4.2	2.4	6	5	287	31	0.07	1.3	1.4	A
9	23	29	50.3	14	32.0	90	31.5	0.2	1.7	6	5	218	19	0.12	1.1	4.1	B
10	0	46	2.1	14	43.3	90	41.5	8.9	1.9	6	3	264	23	0.19	1.1	1.4	A
10	1	2	43.2	14	48.8	89	51.7	13.3	3.0	4	2	340	105	0.18	14.3	28.8	D
10	1	22	24.3	14	35.5	90	41.3	5.5	2.1	6	6	122	19	0.18	0.4	0.9	A
10	2	28	39.8	14	41.4	90	55.0	3.6	3.6	5	0	292	30	0.14	8.6	5.8	C
10	2	32	16.7	14	45.1	90	59.7	1.3	2.3	6	6	310	40	0.15	1.1	2.8	B
10	2	49	2.5	14	45.1	91	1.8	5.8	2.5	6	5	314	43	0.15	1.3	2.4	A
10	2	57	11.5	13	46.2	91	48.5	0.0	3.0	4	2	344	137	0.32	64.8	36.1	D
10	3	28	0.1	14	45.6	91	1.2	9.2	2.6	6	5	313	43	0.24	1.2	2.4	A
10	3	38	35.6	14	38.1	90	58.3	7.7	1.9	6	4	298	33	0.12	1.2	1.3	A
10	3	46	23.5	14	52.3	90	51.2	5.7	2.1	6	5	313	41	0.13	1.1	2.5	B
10	3	47	2.9	14	43.2	90	46.4	10.2	2.1	6	4	258	23	0.19	1.0	1.4	A
10	4	6	32.1	14	38.5	90	32.8	5.3	2.0	6	6	248	23	0.31	0.9	1.3	A
10	4	15	12.5	14	41.9	91	10.5	4.1	2.5	6	5	324	56	0.12	1.6	3.2	B
10	4	36	38.7	14	39.5	90	40.2	0.1	2.2	6	3	184	22	0.08	0.9	4.0	B
10	4	49	59.6	14	42.4	91	1.0	4.7	2.5	6	4	309	41	0.11	1.3	2.1	A
10	4	55	1.9	14	45.2	90	31.8	0.0	2.1	6	4	295	35	0.15	1.2	3.0	B
10	4	56	9.6	14	49.2	90	41.5	8.6	1.9	6	5	301	31	0.15	1.2	1.4	A
10	5	25	12.4	14	40.5	90	32.1	0.1	2.2	6	6	272	26	0.21	1.2	3.0	B
10	5	34	32.0	14	37.7	90	59.7	7.2	2.1	6	5	303	35	0.17	1.2	1.3	A
10	5	46	21.3	14	49.4	90	37.4	2.4	2.3	6	6	300	36	0.17	1.0	2.1	A
10	6	3	51.6	14	45.9	91	3.3	9.9	2.5	6	5	317	46	0.26	1.2	2.2	A
10	6	17	50.3	14	43.8	90	14.0	0.6	4.1	6	0	323	53	0.09	9.3	94.6	D
10	6	20	22.7	14	39.1	90	32.4	5.4	1.8	6	6	256	24	0.14	1.0	1.3	A
10	6	57	9.6	14	40.0	90	38.8	10.0	2.4	6	6	197	24	0.24	0.8	0.7	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
FEB	10	7	1	54.3	14	36.4	90	40.2	6.2	2.1	6	5	122	21	0.24	0.4	0.9	A
	10	7	49	23.1	14	42.2	90	44.3	6.8	2.0	6	4	243	19	0.18	1.0	1.4	A
	10	7	54	9.2	14	35.8	90	50.0	6.8	1.6	6	6	163	18	0.12	0.8	1.1	A
	10	9	15	46.6	14	48.5	90	30.6	7.9	2.2	6	5	304	41	0.22	1.1	1.9	A
	10	10	3	25.5	14	42.2	90	45.9	6.1	2.0	6	5	246	20	0.20	1.3	1.8	A
	10	10	21	21.9	14	39.2	90	31.1	0.3	1.9	6	5	264	24	0.10	1.5	4.0	B
	10	11	9	25.8	14	35.1	90	41.1	6.4	2.1	6	6	116	19	0.17	0.5	0.8	A
	10	11	37	6.5	14	40.6	90	30.7	12.8	1.7	5	5	277	26	0.14	1.1	1.1	A
	10	11	54	52.6	14	37.8	90	40.7	5.5	1.7	5	6	187	20	0.18	0.5	1.1	A
	10	12	42	18.3	14	37.8	90	40.6	9.5	1.6	5	6	185	20	0.11	0.6	0.9	A
	10	13	3	29.9	14	29.5	91	2.0	0.3	2.7	4	5	307	43	0.18	1.7	3.5	B
	10	13	41	13.5	14	42.5	90	44.1	8.9	2.0	6	6	246	20	0.21	0.9	1.0	A
	10	13	53	39.8	14	30.2	90	36.0	9.0	1.3	6	4	143	19	0.13	0.6	1.1	A
	10	14	1	30.6	14	43.0	90	41.1	6.9	3.3	6	1	263	23	0.11	2.3	2.0	A
	10	14	18	41.2	14	48.1	90	41.7	10.8	2.7	6	6	297	29	0.36	1.3	1.5	A
	10	14	26	11.7	14	41.7	90	40.0	7.5	2.3	6	6	253	24	0.13	0.9	0.8	A
	10	14	34	40.3	14	35.0	90	42.1	7.2	1.9	6	6	123	17	0.22	0.4	0.8	A
	12	13	57	32.9	14	31.6	90	37.2	7.6	2.1	6	0	140	16	0.06	0.9	2.0	A
	12	15	10	38.2	14	40.8	90	44.4	0.8	1.7	6	1	224	17	0.10	2.3	5.2	C
	12	15	34	58.3	14	37.7	90	53.9	5.9	1.9	6	2	279	25	0.42	2.0	1.4	A
	12	15	37	46.0	14	44.2	91	12.0	2.9	2.5	6	1	327	60	0.14	3.9	9.6	C
	12	15	46	17.0	14	38.9	90	45.4	1.6	2.3	5	2	251	24	0.14	2.2	4.5	B
	12	16	7	12.9	14	29.0	90	37.3	1.5	2.2	4	2	163	21	0.06	1.6	9.3	C
	12	17	42	20.7	14	38.8	90	34.9	8.2	2.0	6	4	234	24	0.24	0.9	1.2	A
	12	17	45	23.5	14	37.7	90	40.8	5.5	1.9	6	4	148	20	0.21	0.9	2.1	A
	12	17	47	58.7	14	29.3	90	38.4	4.5	1.6	5	3	154	21	0.06	0.7	2.9	B
	12	18	5	22.8	14	36.7	90	41.7	4.5	1.3	6	4	141	18	0.20	0.8	2.1	A
	12	18	6	20.0	14	36.4	90	42.8	8.3	1.9	6	2	146	16	0.08	0.7	1.0	A
	12	18	31	4.6	14	42.4	90	32.7	5.2	1.6	5	5	290	30	0.12	1.1	1.5	A
	12	18	31	4.8	14	41.9	90	32.7	4.9	1.6	6	5	284	29	0.11	1.0	1.4	A
	12	18	31	45.1	14	33.8	90	42.5	3.8	2.2	6	1	112	17	0.17	0.7	1.7	A
	12	18	33	38.4	14	42.5	90	33.3	6.0	1.5	5	4	284	35	0.12	1.3	1.2	A
	12	19	0	25.0	14	35.6	90	43.3	5.7	2.1	6	4	138	15	0.15	0.6	1.1	A
	12	19	0	25.0	14	35.6	90	43.2	4.9	2.0	6	4	137	15	0.18	0.6	1.2	A
	12	19	5	42.0	14	39.8	90	51.3	5.3	1.6	4	3	265	24	0.15	1.7	1.9	A
	12	19	7	8.9	14	35.7	90	41.6	6.9	1.8	6	1	127	18	0.08	0.8	1.8	A
	12	19	46	39.8	14	33.5	90	36.4	6.1	1.6	5	1	227	28	0.07	1.3	2.2	A
	12	19	49	1.5	14	30.0	90	36.9	7.0	1.1	4	4	184	23	0.10	1.0	1.8	A
MAR	1	15	41	24.9	14	34.0	90	54.2	2.3	1.6	6	2	263	24	0.11	2.4	2.5	B
	1	17	0	53.4	14	37.5	90	54.2	4.9	1.8	6	1	280	26	0.03	2.2	1.4	A
	1	17	31	15.7	14	33.1	90	32.4	3.7	1.6	5	3	212	17	0.06	1.6	3.8	B
	1	17	36	4.0	14	29.3	90	37.1	0.0	1.5	6	1	125	20	0.20	0.7	6.7	C
	1	17	53	58.0	14	40.5	90	33.3	3.6	2.2	6	1	269	27	0.04	2.3	2.7	B
	1	20	30	55.9	14	33.7	90	32.2	2.6	2.0	6	1	217	16	0.16	1.9	4.3	B

1976		ORIGIN HR	TIME MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	1	20	50	57.5	14	34.0	91	2.6	3.6	1.5	5	2	309	39	0.19	1.7	3.4	B
	1	21	5	16.4	14	29.6	90	38.3	3.2	1.6	6	2	116	19	0.22	0.7	2.7	B
	1	21	46	44.9	14	32.0	91	1.7	4.4	1.8	6	2	305	37	0.17	1.6	3.2	B
	1	22	43	41.0	14	46.0	90	38.4	6.4	3.3	6	0	290	30	0.10	6.5	2.8	C
	1	22	57	4.7	14	38.1	91	5.1	6.9	1.9	6	1	316	45	0.06	3.0	3.5	B
	1	23	25	21.2	14	42.8	90	33.3	5.6	1.8	6	3	285	31	0.07	1.6	1.9	A
	1	23	47	43.2	14	30.5	90	34.9	5.2	1.4	5	4	160	19	0.15	0.6	1.5	A
	2	0	5	18.0	14	44.7	90	32.1	5.6	2.2	6	1	293	34	0.09	2.4	2.5	A
	2	0	7	0.5	14	32.5	90	58.3	4.4	2.0	6	2	294	31	0.20	1.4	2.6	B
	2	0	11	11.5	14	43.3	90	30.5	7.7	2.0	6	5	293	32	0.14	1.1	1.8	A
	2	2	3	55.6	14	29.1	90	34.9	1.5	2.1	6	1	145	21	0.18	1.2	4.8	B
	2	3	18	25.6	14	42.2	90	46.3	0.6	2.0	6	2	248	21	0.17	3.0	5.3	C
	2	3	32	16.3	14	39.7	91	4.0	9.1	2.0	6	2	315	44	0.06	2.8	2.9	B
	2	4	19	20.3	14	33.4	90	48.6	6.5	1.4	6	1	113	14	0.18	1.3	3.0	B
	2	8	22	51.6	14	35.3	90	42.1	6.1	2.1	6	4	126	17	0.16	0.6	1.7	A
	2	8	56	35.1	14	42.0	90	44.1	6.9	2.0	5	1	268	30	0.10	2.3	2.8	B
	2	9	28	17.6	14	38.2	90	56.1	9.7	2.0	6	2	290	29	0.11	2.0	1.5	A
	2	10	3	19.0	14	30.5	90	33.0	7.1	1.9	6	2	188	20	0.08	1.2	2.6	B
	2	10	14	6.7	14	43.3	90	42.0	9.5	2.0	6	3	260	22	0.09	1.5	1.8	A
	2	10	19	56.4	14	43.6	90	43.0	4.3	1.7	5	3	261	34	0.08	1.9	2.8	B
	2	10	35	25.4	14	30.2	90	34.7	4.2	2.6	6	0	160	19	0.04	1.3	3.3	B
	2	10	43	26.8	14	35.3	90	40.8	6.2	2.8	6	0	116	19	0.11	0.8	1.7	A
	2	10	54	9.2	14	37.0	90	41.6	11.3	2.3	6	0	145	18	0.04	1.3	2.1	A
	2	10	59	29.6	14	42.6	90	44.6	7.9	1.8	5	2	273	31	0.11	2.2	2.3	A
	2	11	39	4.5	14	29.9	90	32.0	8.8	1.9	6	4	201	22	0.23	1.2	2.1	A
	2	13	31	51.2	14	40.8	90	27.1	0.6	1.4	3	3	290	49	0.22	3.1	5.0	B
	2	14	24	50.4	14	43.0	90	52.5	11.5	1.8	5	2	269	29	0.22	2.1	1.9	A
	2	15	3	35.3	14	37.4	90	40.6	10.3	1.7	6	3	141	20	0.21	1.0	1.9	A
	2	15	50	1.0	14	41.0	90	51.3	11.0	1.5	6	2	272	25	0.26	2.1	1.6	A
	2	18	37	59.5	14	45.2	91	2.2	3.7	2.2	5	2	314	44	0.06	1.9	5.1	C
	2	19	59	7.4	14	43.1	90	30.7	4.4	1.9	6	2	292	31	0.04	2.3	2.7	B
	2	20	22	26.3	14	37.9	90	47.9	8.2	1.5	6	3	198	18	0.15	1.4	1.9	A
	2	20	41	10.4	14	38.8	90	29.4	0.1	1.7	5	1	291	24	0.12	5.4	13.2	D
	2	22	41	21.1	14	35.4	90	41.2	6.2	1.2	5	3	144	19	0.13	0.6	1.7	A
	2	22	44	18.4	14	43.3	90	45.5	9.7	2.0	6	3	257	22	0.20	1.6	1.7	A
	2	22	51	59.9	14	33.8	91	0.9	4.1	2.2	6	2	305	36	0.13	2.1	2.7	B
	2	23	2	57.6	14	29.7	90	35.8	5.9	2.0	4	3	142	20	0.14	0.7	1.5	A
	2	23	25	57.8	14	33.7	91	2.2	3.4	2.0	4	3	308	38	0.12	1.9	3.2	B
	2	23	42	19.2	14	36.4	90	40.6	9.2	1.5	5	4	167	25	0.12	0.8	0.9	A
	3	1	25	39.8	14	30.5	90	33.3	6.6	2.3	6	2	183	20	0.08	1.5	2.7	B
	3	1	42	55.2	14	33.9	91	6.5	16.9	2.1	4	3	332	46	0.20	2.0	2.5	B
	3	1	47	24.8	14	22.1	90	22.7	1.1	1.8	5	1	298	38	0.07	2.9	5.8	C
	3	1	56	11.8	14	29.8	90	37.5	5.9	1.7	6	2	124	19	0.05	0.7	2.2	A
	3	1	56	40.3	14	44.6	90	46.2	6.9	1.7	5	3	288	34	0.14	1.4	2.6	B
	3	2	14	41.4	14	30.0	90	33.1	5.1	1.7	6	3	182	21	0.14	1.3	3.0	B

1976		ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	3	2	18	50.5	14	40.3	91	3.6	6.1	2.2	6	1	314	43	0.08	3.0	3.3	B
	3	2	19	30.7	14	40.2	91	4.2	0.1	2.2	6	2	315	44	0.22	2.7	3.7	B
	3	3	54	14.4	14	37.8	90	42.5	17.0	1.7	5	3	207	17	0.16	0.9	1.0	A
	3	4	10	5.5	14	42.1	90	45.5	9.6	2.8	6	4	243	20	0.09	1.0	1.3	A
	3	4	43	16.3	14	37.4	91	3.5	9.1	1.9	6	2	313	42	0.11	2.0	2.4	A
	3	4	45	10.1	14	38.2	91	3.6	6.9	2.4	5	4	314	42	0.14	1.4	2.1	A
	3	4	50	40.2	14	38.4	91	4.7	8.4	2.2	6	1	315	44	0.15	3.1	3.2	B
	3	4	52	42.7	14	39.0	91	6.1	4.1	2.6	6	2	316	47	0.12	2.2	3.5	B
	3	5	12	5.8	14	30.8	90	32.8	6.7	1.4	5	3	192	19	0.05	0.8	1.7	A
	3	5	20	47.3	14	38.8	90	49.5	12.3	1.9	6	2	230	20	0.16	1.7	2.2	A
	3	5	38	35.0	14	44.1	90	31.5	5.8	1.5	5	4	302	33	0.14	1.3	1.7	A
	3	6	18	21.3	14	37.4	91	6.2	7.0	2.3	6	3	317	46	0.17	2.1	2.9	B
	3	6	59	58.2	14	37.3	91	3.0	6.8	2.6	6	1	312	41	0.10	2.0	3.1	B
	3	7	14	2.8	14	51.6	90	30.8	10.6	2.2	5	3	309	47	0.16	2.0	2.6	B
	3	7	39	12.3	14	38.3	91	4.6	5.7	2.2	6	2	315	44	0.09	2.4	2.8	B
	3	7	42	7.5	14	39.0	90	27.9	3.8	1.9	6	2	279	26	0.12	2.4	3.1	B
	3	7	47	54.7	14	42.1	90	29.5	5.5	2.2	6	2	290	29	0.14	1.3	2.9	B
	3	8	2	50.7	14	29.7	90	36.6	4.6	2.1	6	3	133	19	0.17	0.7	2.8	B
	3	8	19	44.1	14	35.0	90	40.7	8.0	2.1	6	2	112	20	0.12	0.7	1.6	A
	3	8	20	7.0	14	44.3	91	3.5	7.8	2.2	6	3	316	46	0.16	2.3	3.1	B
	3	9	12	58.4	14	44.1	90	45.4	9.6	2.0	6	4	264	23	0.20	1.0	1.6	A
	3	10	12	53.1	14	30.7	90	30.5	12.9	2.7	6	1	229	22	0.18	1.9	2.3	A
	3	10	24	10.1	14	30.2	90	33.6	7.8	1.9	6	3	176	20	0.15	0.7	1.4	A
	3	10	44	35.4	14	30.8	90	38.2	5.2	1.8	5	2	184	23	0.05	0.9	2.1	A
	3	10	58	7.0	14	30.0	90	36.5	8.8	1.5	6	3	137	19	0.12	0.6	1.1	A
	3	11	51	22.3	14	39.6	91	5.3	0.7	2.0	6	2	317	46	0.14	2.7	3.8	B
	3	12	13	19.3	14	30.2	90	34.1	3.8	2.5	6	0	168	20	0.07	1.4	3.5	B
	3	13	16	35.6	14	46.8	90	42.0	6.5	1.9	6	1	291	27	0.08	2.6	2.2	B
	3	13	18	52.5	14	38.3	91	4.7	4.4	1.9	6	3	315	44	0.15	2.2	2.8	B
	3	14	1	25.9	14	43.8	90	24.0	0.2	2.1	6	2	308	37	0.20	2.3	5.6	C
	3	14	57	30.3	14	30.9	90	33.5	6.1	2.1	5	1	237	27	0.07	1.5	3.2	B
	3	15	35	1.0	14	40.0	90	40.0	12.4	2.0	6	1	202	22	0.27	2.1	1.9	A
	3	16	1	23.5	14	30.3	90	34.3	3.0	1.9	6	0	166	19	0.13	1.3	3.9	B
	3	17	7	58.2	14	29.8	90	34.1	2.7	1.6	6	1	164	20	0.14	1.3	4.2	B
	3	17	15	6.4	14	44.4	90	44.1	10.0	1.8	6	2	267	23	0.19	1.7	2.0	A
	3	17	33	10.2	14	18.4	90	24.6	7.9	2.2	6	1	301	39	0.12	3.2	2.6	B
	3	17	50	53.2	14	35.8	91	1.7	6.5	2.5	6	2	309	38	0.12	1.5	2.6	B
	3	17	59	8.1	14	29.5	90	37.0	4.3	2.0	6	2	127	19	0.14	0.8	2.7	B
	3	18	3	8.5	14	37.3	90	41.7	0.0	1.3	5	2	193	25	0.17	1.2	4.6	B
	3	18	47	57.1	14	38.8	91	3.3	4.5	1.9	6	2	313	42	0.14	1.4	3.7	B
	3	19	8	14.8	14	48.0	90	39.7	3.1	1.9	6	3	296	31	0.16	1.9	2.6	B
	3	19	28	23.7	14	38.0	91	3.0	0.8	2.4	6	1	313	41	0.13	2.7	4.5	B
	3	19	52	15.7	14	39.8	91	6.0	8.2	2.6	6	1	318	47	0.13	2.8	2.9	B
	3	19	54	19.7	14	39.1	91	3.8	3.9	2.2	6	2	314	43	0.09	2.5	3.1	B
	3	21	15	22.4	14	40.0	91	1.5	5.9	1.9	5	2	309	40	0.20	3.2	2.9	B

1976	ORIGIN HR	TIME MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR 3	22	10	34.8	14	38.1	90	40.7	8.0	1.6	6	3	154	20	0.11	1.0	1.9	A
3	22	18	25.2	14	37.0	90	42.5	14.8	2.4	6	4	152	17	0.14	0.9	1.4	A
3	22	20	45.2	14	35.4	90	42.1	5.9	1.8	6	3	127	17	0.20	0.7	1.8	A
3	22	51	39.3	14	40.6	90	40.0	12.4	1.7	4	3	253	31	0.12	1.0	1.1	A
3	23	3	46.9	14	42.6	90	58.7	0.1	1.6	6	3	304	37	0.17	1.8	3.3	B
3	23	9	48.2	14	43.2	90	42.6	8.1	1.9	6	2	257	21	0.19	1.9	1.7	A
3	23	32	21.3	14	37.0	91	0.5	5.6	2.0	6	1	306	36	0.15	2.7	3.7	B
3	23	53	20.6	14	30.2	90	36.9	9.4	1.6	5	3	134	18	0.10	0.7	1.1	A
4	0	23	28.5	14	39.1	90	41.2	12.3	1.5	5	3	181	20	0.18	0.8	1.0	A
4	0	37	49.4	14	41.4	90	45.5	0.5	2.6	6	0	236	19	0.07	2.9	6.5	C
4	0	48	41.6	14	38.0	91	2.3	1.4	2.1	6	3	311	40	0.15	1.8	3.2	B
4	2	22	26.7	14	37.7	90	40.6	3.8	1.8	6	3	145	20	0.12	0.9	2.5	A
4	2	33	32.8	14	45.3	90	52.6	4.7	1.9	4	3	313	32	0.20	1.6	2.5	B
4	2	57	1.5	14	35.9	90	42.2	3.1	2.0	6	1	134	17	0.07	0.8	2.4	A
4	3	49	23.9	14	47.8	90	31.4	6.5	1.7	6	3	302	40	0.12	1.8	2.4	A
4	4	3	27.0	14	38.5	91	5.2	6.3	1.8	5	3	316	48	0.17	2.2	2.6	B
4	4	39	53.6	14	32.5	91	4.4	9.8	2.2	6	3	312	42	0.27	1.5	2.5	B
4	4	53	1.8	14	32.0	90	37.9	4.9	1.9	6	1	134	16	0.04	0.8	1.8	A
4	5	0	3.4	14	31.2	90	37.8	4.2	1.4	4	5	199	16	0.10	0.5	1.3	A
4	5	29	4.9	14	32.4	91	0.9	6.5	1.8	6	2	304	36	0.14	1.5	2.6	B
4	5	34	44.8	14	42.3	90	48.7	10.6	1.6	6	3	260	23	0.12	1.4	1.5	A
4	5	45	26.6	14	40.3	90	49.5	2.8	2.0	6	3	248	21	0.08	1.2	2.3	A
4	6	1	10.2	14	51.1	90	40.2	9.9	2.1	6	2	305	35	0.11	1.7	2.2	A
4	7	17	33.8	14	36.1	90	55.5	7.9	2.4	6	2	285	27	0.10	2.0	1.5	A
4	7	59	34.7	14	38.7	90	38.6	8.1	2.0	6	3	137	24	0.18	1.3	1.9	A
4	8	13	19.9	14	38.2	91	4.2	0.0	2.0	6	1	315	43	0.12	2.8	4.2	B
4	8	43	7.5	14	29.8	90	34.9	2.8	2.6	6	0	154	20	0.09	1.2	4.0	B
4	9	43	24.5	14	38.9	90	48.8	4.7	2.6	6	0	223	19	0.01	2.8	3.2	B
4	9	49	49.0	14	43.5	90	51.4	11.6	2.0	6	2	284	28	0.14	1.7	2.0	A
4	9	54	7.9	14	38.7	90	48.1	8.1	2.0	5	1	213	18	0.07	2.0	3.0	B
4	10	44	5.1	14	29.6	90	34.7	3.6	1.7	5	4	155	20	0.22	0.6	2.2	A
4	10	57	47.9	14	49.2	90	36.7	8.3	1.8	6	2	300	37	0.17	2.5	2.1	B
4	11	41	50.7	14	55.1	90	41.8	13.7	1.9	6	1	314	42	0.09	2.7	3.2	B
4	12	18	36.4	14	35.5	90	40.7	9.8	2.5	6	4	117	20	0.20	0.6	0.8	A
4	13	52	24.9	14	29.8	90	33.2	8.4	1.5	4	5	180	21	0.14	0.7	1.3	A
4	13	57	10.8	14	38.7	91	4.8	6.1	1.9	6	1	316	44	0.07	2.6	6.4	C
4	15	18	38.2	14	36.4	90	54.3	4.7	1.8	4	1	278	25	0.04	1.5	1.6	A
4	16	14	47.7	14	44.5	90	45.2	10.7	1.8	6	2	268	24	0.27	2.1	2.3	A
4	16	31	41.5	14	42.7	91	5.4	5.7	1.9	6	1	318	48	0.11	3.2	5.0	C
4	17	3	28.3	14	35.3	90	20.5	11.5	2.2	5	1	304	49	0.16	2.8	3.0	B
4	18	5	41.7	14	30.7	90	34.3	2.4	2.0	6	2	169	19	0.27	1.2	4.0	B
4	19	47	23.6	14	29.4	90	36.8	2.3	2.0	6	3	128	20	0.21	0.7	3.4	B
4	21	30	39.0	14	39.1	90	45.4	1.0	2.1	5	1	202	15	0.19	1.0	6.5	C
4	21	47	8.8	14	42.8	90	25.0	0.1	2.8	5	4	303	35	0.21	1.5	4.8	B
4	23	32	30.5	14	37.2	91	1.2	5.1	2.0	5	3	308	38	0.19	1.5	2.5	A

1976	ORIGIN HR	TIME MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR 4	23	40	0.6	14	30.9	90	34.7	0.0	3.0	6	5	166	18	0.17	0.6	4.1	B
5	0	33	13.5	14	41.0	90	47.6	9.2	1.6	4	3	240	27	0.29	1.9	1.9	A
5	1	18	29.7	14	42.2	90	28.5	5.0	2.0	6	3	293	30	0.19	1.3	2.6	B
5	1	45	17.4	14	46.3	90	36.8	1.5	1.6	6	3	291	33	0.28	1.4	2.8	B
5	1	47	57.9	14	42.1	90	56.5	4.9	2.5	6	3	298	33	0.03	1.4	2.1	A
5	2	2	20.0	14	39.5	91	3.6	2.4	1.8	6	2	314	43	0.08	2.5	3.2	B
5	2	18	33.1	14	51.0	90	38.8	10.4	2.1	6	4	304	36	0.22	1.2	2.1	A
5	2	42	45.7	14	40.3	90	29.9	1.7	1.8	6	2	278	26	0.04	2.4	3.8	B
5	2	43	11.9	14	43.0	90	46.2	3.9	2.3	6	4	255	22	0.21	1.1	2.0	A
5	2	54	48.3	14	45.4	90	38.9	13.2	2.0	6	5	287	29	0.16	1.0	1.3	A
5	4	8	59.8	14	31.6	90	34.9	2.9	2.1	6	2	169	17	0.10	1.0	3.4	B
5	4	31	42.4	14	31.6	90	59.0	10.4	1.6	6	3	293	33	0.16	1.3	1.4	A
5	5	47	3.4	14	37.2	91	1.6	6.7	2.6	6	0	309	38	0.14	11.0	8.2	D
5	5	52	31.3	14	46.2	90	45.8	8.0	1.8	6	4	282	27	0.21	1.1	1.9	A
5	6	1	26.6	14	39.5	91	4.7	5.1	2.5	6	6	316	45	0.14	1.1	2.2	A
5	6	57	52.2	14	40.3	90	49.0	4.4	2.0	5	5	243	21	0.23	1.1	1.5	A
5	7	3	7.2	14	42.0	90	32.5	4.6	1.8	6	4	285	29	0.13	1.1	1.9	A
5	7	13	15.0	14	44.0	90	44.0	1.0	2.5	6	2	264	22	0.07	1.4	3.6	B
5	7	36	47.1	14	36.5	90	41.0	6.3	1.8	6	3	131	19	0.14	0.7	1.0	A
5	8	9	33.0	14	42.2	90	31.0	1.2	2.3	6	4	288	29	0.15	1.4	2.9	B
5	8	16	27.0	14	44.3	90	44.3	5.7	2.3	6	4	267	23	0.17	1.1	1.8	A
5	8	48	11.0	14	39.3	90	50.2	8.3	2.0	5	4	245	21	0.15	1.0	1.1	A
5	10	28	42.6	14	30.8	90	35.8	5.5	1.7	6	2	150	18	0.26	0.9	2.6	B
5	10	33	6.0	14	30.1	90	33.2	5.7	2.6	6	1	181	20	0.14	1.5	3.0	B
5	10	42	24.1	14	32.8	91	1.2	4.8	2.4	6	5	306	36	0.14	1.0	1.9	A
5	10	52	31.5	14	39.8	90	43.2	0.4	1.5	6	1	204	17	0.09	1.8	6.5	C
5	12	48	44.3	14	29.3	90	34.7	0.3	1.6	4	4	196	23	0.11	1.5	7.3	C
5	12	49	22.2	14	29.9	90	33.8	5.9	1.5	5	4	169	20	0.15	0.8	1.4	A
5	12	54	35.8	14	38.0	90	25.5	0.1	2.5	6	2	287	30	0.13	1.7	5.0	B
5	13	45	25.5	14	43.6	90	58.8	3.0	2.2	5	4	306	38	0.26	1.5	5.0	B
5	13	58	58.9	14	40.6	91	5.0	5.6	2.4	6	4	317	46	0.19	1.8	2.8	B
5	14	6	42.8	14	37.2	90	27.2	9.8	2.4	5	2	276	26	0.16	2.6	2.5	B
5	15	4	31.3	14	47.6	90	24.0	0.5	2.1	6	3	312	41	0.13	2.1	4.3	B
5	15	6	16.9	14	43.1	90	45.2	9.3	1.6	5	3	254	32	0.11	1.6	2.3	A
5	15	32	48.4	14	38.2	91	4.1	0.0	1.8	6	3	314	43	0.17	2.2	3.9	B
5	16	24	9.1	14	29.6	90	33.8	7.2	1.2	3	3	214	30	0.12	1.8	1.7	A
5	16	29	35.4	14	30.4	90	32.9	5.8	1.4	5	4	189	20	0.23	0.8	1.7	A
5	16	37	45.3	14	40.2	91	4.2	6.2	2.1	6	2	315	44	0.12	2.1	3.6	B
5	16	43	3.4	14	37.4	90	41.2	6.4	2.4	6	1	148	19	0.21	1.1	2.1	A
5	17	54	20.7	14	38.5	90	40.9	6.9	1.1	5	3	202	28	0.13	1.3	2.1	A
5	18	53	17.9	14	38.9	90	59.2	0.0	2.0	6	4	302	35	0.23	1.0	3.6	B
5	18	58	22.8	14	39.8	90	33.0	9.8	2.6	5	4	261	25	0.11	1.0	1.3	A
5	19	37	4.6	14	49.8	90	53.2	6.2	1.8	6	3	310	39	0.15	1.6	3.0	B
5	19	41	42.6	14	29.6	90	33.2	7.1	2.0	6	4	177	21	0.17	1.2	2.5	B
5	20	2	4.0	14	45.8	90	33.6	15.0	1.8	4	5	313	36	0.48	1.3	1.5	A

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR 5	20	49	32.2	14	39.7	90	31.3	0.7	2.1	6	2	268	25	0.14	1.3	5.9	C
5	20	52	9.7	14	46.1	91	0.4	2.0	2.1	6	4	312	41	0.16	1.3	4.0	B
5	20	57	43.8	14	16.9	90	30.2	0.2	1.9	5	1	284	34	0.14	3.1	7.4	C
5	21	8	2.7	14	30.6	90	33.7	6.6	2.5	6	1	177	19	0.13	1.4	2.8	B
5	21	49	24.3	14	38.0	90	24.8	3.7	1.6	4	4	290	31	0.16	1.5	2.9	B
5	23	26	36.9	14	42.2	90	32.2	4.3	1.7	6	3	286	29	0.20	1.7	2.3	A
5	23	27	26.1	14	30.3	90	31.3	4.3	2.2	6	4	216	22	0.10	0.9	1.9	A
5	23	58	56.1	14	38.3	90	59.3	8.6	2.5	6	4	302	35	0.18	1.3	1.6	A
6	0	8	43.6	14	41.9	90	45.7	0.2	2.5	2	3	326	39	0.09	4.2	8.3	C
6	2	18	24.1	14	30.6	90	34.4	4.6	2.5	6	0	168	19	0.04	1.3	3.1	B
6	4	37	9.5	14	42.3	90	45.4	6.4	2.4	6	3	245	20	0.15	1.6	2.5	B
6	4	56	52.0	14	28.4	90	37.1	7.2	1.1	5	4	116	20	0.26	0.5	1.5	A
6	5	57	21.8	14	42.5	90	35.4	8.9	1.5	4	4	299	31	0.23	1.4	0.9	A
6	6	41	20.6	14	43.7	90	28.4	0.2	2.4	5	5	301	33	0.18	1.5	3.7	B
6	10	21	16.0	14	29.9	90	34.4	0.1	1.4	5	1	162	20	0.16	1.3	7.2	C
6	10	55	8.8	14	35.9	90	40.9	7.6	1.3	5	2	167	24	0.06	1.0	1.8	A
6	11	40	26.5	14	35.5	90	46.0	16.1	1.1	5	4	148	16	0.26	0.7	1.0	A
6	13	9	47.4	14	31.1	91	2.7	10.0	1.9	5	1	306	39	0.11	3.4	2.9	B
6	13	25	56.8	14	30.0	90	34.2	1.9	2.0	3	2	214	25	0.11	2.6	8.9	C
6	13	29	16.3	14	40.6	90	36.2	6.1	2.2	6	0	269	26	0.09	3.3	1.7	B
6	14	14	40.9	14	29.8	90	35.1	2.8	3.0	6	1	151	20	0.08	1.1	4.0	B
6	14	17	3.4	14	43.4	91	2.3	5.4	2.5	5	1	318	44	0.03	3.4	3.7	B
6	14	23	23.5	14	29.9	90	33.9	4.8	1.7	5	2	169	20	0.09	1.3	3.3	B
6	14	31	7.5	14	30.0	90	33.3	11.9	1.9	5	1	179	20	0.08	1.6	2.7	B
6	14	31	31.0	14	30.3	90	33.8	5.5	1.8	5	1	174	20	0.09	1.4	3.3	B
6	14	33	50.3	14	30.0	90	34.1	2.1	2.1	6	1	166	20	0.13	1.2	4.6	B
6	14	36	51.0	14	30.4	90	33.8	6.1	1.5	6	2	174	19	0.25	0.8	1.6	A
6	14	37	44.6	14	29.6	90	34.0	7.6	1.5	4	2	164	21	0.14	0.9	1.7	A
6	14	53	28.4	14	30.5	90	31.9	8.6	2.1	6	2	205	21	0.20	1.7	2.4	A
6	14	58	20.2	14	29.5	90	33.6	1.3	1.8	6	3	169	21	0.21	1.3	5.1	C
6	14	59	38.3	14	29.9	90	35.2	0.1	1.3	5	3	150	19	0.24	1.1	6.0	C
6	15	17	42.7	14	41.2	90	33.6	3.1	1.6	6	3	277	28	0.15	1.7	2.3	A
6	15	36	44.0	14	30.2	90	36.2	8.6	3.3	5	0	142	18	0.02	1.2	2.3	A
6	15	47	30.2	14	30.3	90	37.1	0.0	1.6	6	3	133	18	0.19	0.5	4.9	B
6	15	54	37.2	14	31.0	90	36.9	3.9	1.8	6	2	140	17	0.09	0.7	2.6	B
6	16	7	31.8	14	31.4	90	36.5	10.8	1.4	4	4	213	25	0.10	1.1	1.2	A
6	16	7	47.6	14	29.9	90	34.7	0.3	2.2	6	2	157	20	0.09	1.0	5.1	C
6	16	11	15.3	14	29.0	90	34.8	0.4	2.0	6	1	147	21	0.13	0.9	6.6	C
6	16	23	26.5	14	28.8	90	33.6	4.8	1.9	6	1	162	22	0.15	1.6	3.3	B
6	16	32	27.2	14	30.4	90	37.5	2.1	1.5	6	1	129	18	0.14	0.8	3.5	B
6	17	2	48.1	14	30.1	90	33.7	5.5	1.3	4	2	174	20	0.11	0.8	2.1	A
6	17	10	40.2	14	29.6	90	34.1	4.4	1.7	6	2	163	20	0.09	0.8	2.0	A
6	17	11	30.8	14	29.5	90	34.5	5.3	2.1	5	1	203	24	0.15	1.4	3.3	B
6	17	12	38.0	14	29.7	90	34.9	0.2	1.6	6	2	152	20	0.25	1.0	6.6	C
6	17	17	31.1	14	41.3	90	36.3	6.5	3.2	6	1	273	29	0.20	2.9	1.4	B

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	6	17	24 35.5	14	30.0	90	32.6	1.9	2.2	5	2	190	21	0.13	1.8	4.8	B
	6	17	32 37.5	14	29.8	90	32.3	9.0	1.5	5	3	196	26	0.13	1.6	2.6	B
	6	18	2 36.2	14	30.3	90	34.5	1.5	1.6	5	3	163	19	0.13	1.2	5.3	C
	6	18	24 37.9	14	30.3	90	33.7	5.7	1.9	5	2	175	20	0.11	1.4	3.2	B
	6	18	25 11.5	14	30.4	90	32.2	0.9	1.9	5	3	247	27	0.07	1.1	3.8	B
	6	18	35 35.4	14	29.9	90	34.9	1.9	2.0	6	1	155	20	0.09	1.1	4.7	B
	6	19	30 4.3	14	30.2	90	36.5	7.0	2.1	6	1	139	18	0.08	0.9	2.3	A
	6	19	32 38.1	14	29.9	90	34.9	0.5	2.2	6	1	155	20	0.10	1.1	7.0	C
	6	19	41 44.5	14	29.8	90	35.8	6.6	2.4	6	1	142	19	0.13	1.0	2.6	B
	6	19	43 43.3	14	30.1	90	33.6	6.6	1.6	5	1	175	20	0.07	1.4	3.0	B
	6	19	51 7.5	14	30.0	90	36.2	9.8	1.6	5	2	139	19	0.06	1.0	2.5	A
	6	20	6 50.5	14	28.4	90	36.4	0.3	1.6	5	2	122	20	0.17	0.8	5.2	C
	6	20	13 20.9	14	29.8	90	36.7	6.1	2.1	6	1	133	19	0.11	0.9	2.5	A
	6	20	13 59.4	14	30.0	90	36.3	5.2	3.2	6	0	139	19	0.08	1.0	2.7	B
	6	20	18 59.2	14	30.2	90	36.6	3.3	1.9	6	2	137	18	0.08	0.8	3.1	B
	6	20	36 44.9	14	30.3	90	33.6	5.2	2.1	6	1	176	20	0.10	1.4	3.1	B
	6	22	2 30.9	14	29.4	90	35.1	4.4	2.3	6	0	147	20	0.03	1.2	3.2	B
	6	22	31 58.8	14	43.9	90	34.6	7.4	3.1	6	0	286	33	0.06	5.8	2.1	C
	6	22	35 56.0	14	29.9	90	34.0	3.3	1.7	5	1	168	20	0.12	1.3	4.2	B
	6	22	36 17.3	14	29.7	90	34.2	0.4	1.7	5	1	162	20	0.08	1.4	7.6	C
	6	23	4 31.7	14	30.2	90	37.0	0.5	1.6	5	3	133	18	0.15	0.7	4.3	B
	6	23	7 2.4	14	30.3	90	37.2	0.0	1.6	5	3	131	18	0.16	0.6	4.6	B
	6	23	29 32.4	14	29.6	90	36.8	2.1	1.9	6	2	130	19	0.17	0.7	3.7	B
	6	23	30 20.5	14	31.8	90	59.8	1.5	1.7	6	3	297	34	0.22	1.7	3.3	B
	6	23	39 21.2	14	30.0	90	36.9	8.4	2.5	6	4	132	19	0.12	0.5	1.0	A
	6	23	44 23.7	14	30.6	90	37.1	5.8	2.4	6	4	135	17	0.07	0.6	1.2	A
	6	23	56 45.3	14	30.5	90	36.8	6.1	2.7	6	2	137	18	0.14	0.8	2.3	A
	6	23	59 23.9	14	48.5	90	33.8	0.5	2.1	6	3	300	40	0.17	2.0	3.5	B
	7	0	22 19.4	14	31.1	90	37.8	6.1	2.2	6	2	130	16	0.14	0.6	1.9	A
	7	0	43 30.5	14	30.1	90	37.2	0.6	1.5	5	4	130	18	0.19	0.5	4.3	B
	7	1	24 38.5	14	30.5	90	35.0	4.1	1.9	6	2	158	19	0.10	1.0	3.2	B
	7	1	42 21.6	14	30.3	90	37.8	0.2	1.9	6	2	126	18	0.18	0.7	4.8	B
	7	1	43 37.0	14	30.2	90	36.4	4.6	1.9	6	2	139	18	0.06	0.8	2.7	B
	7	1	54 35.7	14	25.4	90	22.8	0.2	2.1	6	1	294	35	0.15	2.4	4.0	B
	7	2	54 4.8	14	40.4	90	58.5	11.3	4.0	6	0	301	35	0.14	9.5	3.0	C
	7	3	5 44.6	14	27.9	90	39.0	0.1	1.3	2	4	188	21	0.30	0.8	5.8	C
	7	3	5 59.7	14	41.3	91	1.2	2.0	2.3	6	2	309	40	0.06	1.9	4.4	B
	7	3	11 22.7	14	42.3	91	2.1	7.1	2.3	6	1	312	42	0.07	2.7	2.7	B
	7	3	15 45.5	14	38.6	90	54.4	6.0	3.9	5	0	298	29	0.04	6.4	1.8	C
	7	3	36 31.2	14	48.1	91	5.1	15.4	2.3	6	1	321	50	0.14	3.0	3.0	B
	7	3	39 15.3	14	41.4	90	59.2	7.5	2.5	6	0	304	37	0.16	10.6	6.9	D
	7	3	44 8.2	14	41.7	91	1.7	10.0	2.0	6	2	311	41	0.22	2.3	2.1	A
	7	3	44 44.4	14	46.0	91	7.4	5.7	1.9	6	2	323	53	0.08	2.6	5.2	C
	7	3	51 31.4	14	45.9	91	2.1	8.0	2.1	5	1	321	46	0.09	3.5	3.3	B
	7	4	1 22.6	14	44.2	90	32.4	0.6	1.9	5	1	303	33	0.08	3.1	4.6	B

1976		ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	7	4	2	37.0	14	41.9	91	5.2	0.1	2.5	6	2	318	47	0.12	2.6	4.3	B
	7	4	4	57.1	14	40.6	90	58.3	8.0	2.2	6	1	301	35	0.11	1.8	2.4	A
	7	4	6	34.5	14	45.6	91	2.0	23.0	2.1	5	2	314	45	0.22	2.3	3.2	B
	7	4	7	56.4	14	42.3	90	59.7	5.3	2.2	6	3	306	39	0.08	1.6	2.4	A
	7	4	9	6.3	14	44.9	91	6.6	0.8	1.7	6	1	321	52	0.11	3.0	6.4	C
	7	4	13	34.7	14	35.5	90	53.0	5.4	3.2	6	0	268	23	0.11	4.3	2.0	B
	7	4	35	24.4	14	45.6	91	3.5	3.8	2.3	5	5	317	47	0.22	2.0	2.8	B
	7	4	38	19.4	14	38.2	91	2.1	1.8	2.3	6	1	310	40	0.17	2.9	4.5	B
	7	5	5	18.3	14	45.3	91	0.2	3.4	2.4	6	2	311	41	0.20	2.1	3.6	B
	7	5	20	57.6	14	42.1	91	4.6	2.1	2.0	6	5	317	46	0.20	1.2	3.1	B
	7	5	21	48.1	14	30.8	90	36.9	6.9	2.3	6	1	139	17	0.16	0.9	2.1	A
	7	5	28	3.4	14	39.0	90	56.1	5.8	2.6	6	0	291	30	0.11	7.8	3.2	C
	7	5	48	0.1	14	45.2	91	7.3	0.8	2.0	6	2	322	53	0.09	2.7	6.3	C
	7	5	49	22.2	14	45.8	91	7.5	13.7	2.0	6	3	323	54	0.28	2.3	2.8	B
	7	5	56	13.9	14	29.8	90	37.1	0.3	1.8	5	2	128	19	0.11	0.8	4.9	B
	7	6	7	32.1	14	44.5	91	4.1	2.3	1.9	6	4	317	47	0.18	2.1	2.9	B
	7	6	12	36.8	14	44.0	91	2.8	0.5	2.1	6	4	314	45	0.17	2.1	3.6	B
	7	6	19	48.5	14	43.8	91	5.9	3.9	2.2	6	3	320	50	0.13	2.3	3.8	B
	7	6	37	6.9	14	45.7	91	5.8	0.6	1.8	6	4	320	51	0.17	1.7	4.8	B
	7	6	38	33.5	14	43.6	91	6.0	7.6	2.5	6	3	320	50	0.14	1.9	3.3	B
	7	6	39	24.7	14	42.6	91	2.8	3.9	2.1	6	1	313	44	0.10	3.0	3.6	B
	7	6	51	27.0	14	45.9	91	6.2	9.5	2.7	6	4	321	51	0.16	2.0	2.7	B
	7	6	56	6.4	14	43.1	91	0.0	4.3	1.9	6	3	308	40	0.15	1.6	2.6	B
	7	7	3	40.3	14	42.8	91	4.0	10.0	2.0	6	3	316	46	0.10	2.0	2.1	A
	7	7	7	13.0	14	44.4	91	5.1	1.7	1.9	6	3	319	49	0.15	2.3	3.4	B
	7	7	22	44.2	14	46.3	91	5.9	6.8	2.0	6	3	321	51	0.19	2.1	3.6	B
	7	7	29	8.4	14	39.6	91	6.8	0.5	2.4	6	3	319	48	0.19	2.4	4.2	B
	7	7	32	26.3	14	44.3	91	2.8	5.7	2.1	6	4	315	45	0.24	1.9	2.3	A
	7	7	42	16.0	14	41.8	91	4.4	0.7	2.2	6	4	316	46	0.14	1.5	3.0	B
	7	8	7	1.0	14	44.4	91	2.6	9.9	1.8	6	1	314	44	0.16	3.0	5.6	C
	7	8	8	56.4	14	41.3	91	2.4	4.6	1.9	6	3	312	42	0.09	2.2	2.6	B
	7	8	12	58.1	14	40.8	90	59.5	10.2	2.7	6	2	304	37	0.10	1.8	2.3	A
	7	8	16	32.1	14	44.0	91	3.5	12.3	1.8	5	3	320	46	0.16	2.9	2.8	B
	7	8	18	26.5	14	44.6	91	2.1	9.7	1.9	6	3	314	44	0.13	1.9	2.0	A
	7	8	21	30.1	14	39.1	91	4.2	8.6	1.9	6	4	315	44	0.23	1.7	1.9	A
	7	8	21	58.5	14	46.7	90	35.3	2.4	1.7	5	3	313	38	0.07	1.5	2.9	B
	7	8	29	29.6	14	42.2	91	1.9	6.2	2.3	6	3	311	42	0.12	1.7	2.5	A
	7	8	36	11.9	14	42.8	91	6.3	5.7	2.6	6	0	320	50	0.08	12.6	22.2	D
	7	8	46	17.9	14	38.0	90	57.3	11.6	1.9	6	4	294	31	0.32	1.2	0.9	A
	7	8	54	58.4	14	44.9	91	6.8	2.3	2.2	6	2	321	52	0.17	2.5	5.7	C
	7	8	59	2.2	14	42.4	91	5.4	1.9	2.4	6	5	318	48	0.19	1.3	3.2	B
	7	8	59	26.5	14	43.0	91	5.7	0.8	2.2	6	5	319	49	0.24	1.4	3.2	B
	7	9	4	0.9	14	36.4	90	57.4	10.8	2.1	6	4	294	31	0.27	1.3	1.5	A
	7	9	20	29.3	14	30.4	90	36.9	6.3	2.4	6	4	135	18	0.19	0.6	2.1	A
	7	9	25	20.3	14	47.1	91	13.1	16.1	2.0	5	3	329	64	0.28	1.9	5.5	C

1976		ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	7	9	27	21.9	14	45.3	91	4.0	1.1	1.8	6	2	317	47	0.14	2.3	5.7	C
	7	9	48	23.5	14	41.2	91	3.9	10.5	1.8	6	2	315	44	0.11	2.2	2.7	B
	7	9	50	12.1	14	40.8	91	6.2	5.2	2.5	5	3	319	50	0.19	2.4	3.3	B
	7	9	53	22.0	14	44.0	91	7.5	21.9	2.3	5	4	322	53	0.26	1.8	3.6	B
	7	9	57	42.4	14	43.1	91	1.4	0.3	2.0	6	3	311	42	0.11	1.8	3.6	B
	7	10	2	28.7	14	46.9	91	6.4	6.8	2.3	6	3	322	52	0.11	2.4	3.3	B
	7	10	20	51.6	14	30.6	90	37.2	5.5	1.6	5	3	133	17	0.16	0.7	2.3	A
	7	10	21	14.5	14	45.5	91	6.2	11.6	1.9	6	4	321	51	0.15	1.9	2.7	B
	7	10	31	56.4	14	42.6	90	44.4	5.8	1.8	6	3	247	20	0.19	1.1	1.8	A
	7	10	37	47.3	14	44.2	91	3.1	6.1	2.1	6	5	315	45	0.16	1.6	2.3	A
	7	11	11	32.0	14	31.2	90	36.6	6.1	1.9	6	0	144	17	0.03	1.0	2.2	A
	7	11	57	28.5	14	43.7	91	6.3	1.3	2.1	6	5	320	50	0.13	1.4	3.5	B
	7	12	5	20.7	14	30.2	90	33.4	2.2	2.1	6	1	179	20	0.20	1.6	4.4	B
	7	12	15	56.7	14	43.8	91	6.9	0.0	2.1	6	2	321	51	0.09	3.0	4.7	B
	7	12	26	38.8	14	46.3	91	6.6	7.9	2.0	6	3	322	52	0.15	2.3	3.2	B
	7	13	2	18.6	14	46.0	91	4.4	6.8	1.9	5	3	319	48	0.07	1.6	3.0	B
	7	13	13	25.6	14	45.8	91	7.1	3.9	1.8	6	3	322	53	0.16	2.6	4.6	B
	7	13	21	28.1	14	30.2	90	36.0	9.1	1.5	6	3	144	18	0.18	0.7	1.9	A
	7	13	23	44.5	14	42.9	90	44.6	12.7	2.5	6	3	252	21	0.23	1.1	1.3	A
	7	13	32	20.3	14	42.5	90	44.9	7.1	1.5	4	4	277	31	0.13	1.2	2.1	A
	7	13	39	31.6	14	41.2	90	44.9	2.6	2.1	6	2	231	18	0.25	1.0	2.6	B
	7	13	41	39.1	14	45.3	91	5.3	11.2	2.8	6	2	319	50	0.09	2.4	3.9	B
	7	13	43	9.0	14	45.8	91	6.0	0.1	1.6	6	1	321	51	0.13	3.0	6.7	C
	7	13	46	3.3	14	43.9	90	45.7	14.0	1.8	6	4	263	23	0.22	1.0	1.4	A
	7	14	0	5.3	14	45.1	91	3.2	7.0	2.3	6	5	316	46	0.18	1.6	2.2	A
	7	14	5	23.9	14	42.6	90	44.6	7.8	1.5	6	3	248	20	0.19	1.0	1.7	A
	7	14	14	50.1	14	46.5	91	1.3	9.7	2.2	5	5	333	45	0.19	1.8	2.0	A
	7	14	24	46.0	14	29.8	90	34.6	1.0	2.4	6	0	157	20	0.19	1.2	6.2	C
	9	7	21	21.1	14	29.9	90	37.7	3.6	2.6	6	0	124	19	0.05	0.9	2.8	B
	9	7	39	58.6	14	39.6	91	6.6	4.6	2.2	6	5	319	48	0.13	1.5	2.7	B
	9	7	42	40.5	14	36.1	90	58.2	6.3	3.6	6	0	297	32	0.11	8.3	3.3	C
	9	7	49	36.3	14	38.7	91	7.4	0.8	1.9	6	6	319	49	0.19	1.3	3.1	B
	9	7	50	25.8	14	37.8	91	6.5	7.6	2.2	6	1	317	47	0.09	2.8	3.0	B
	9	7	51	56.5	14	35.2	90	49.0	0.6	2.1	5	0	143	16	0.16	1.4	8.3	C
	9	8	7	11.9	14	46.0	90	44.1	0.0	1.9	6	2	281	26	0.17	3.4	4.5	B
	9	8	8	45.6	14	29.7	90	36.7	5.6	1.7	5	1	133	19	0.05	0.8	2.9	B
	9	8	9	34.7	14	28.7	90	34.4	22.4	1.8	5	3	147	23	0.22	1.0	1.8	A
	9	8	12	29.4	14	39.7	91	5.7	2.0	1.9	6	4	318	47	0.06	1.8	3.3	B
	9	8	14	39.2	14	40.3	91	1.1	2.0	1.9	6	2	308	39	0.12	2.1	3.3	B
	9	8	21	17.7	14	38.9	91	6.3	2.9	2.1	6	5	318	47	0.22	1.5	3.0	B
	9	8	22	34.1	14	37.0	91	4.8	2.8	2.0	6	3	314	44	0.15	1.9	3.3	B
	9	8	24	4.0	14	41.5	90	31.3	6.0	2.6	6	4	283	28	0.12	1.1	1.9	A
	9	8	40	20.9	14	40.6	91	7.1	15.6	1.8	6	2	320	50	0.21	2.6	2.4	B
	9	8	42	4.1	14	40.3	91	4.5	6.6	2.5	6	3	316	45	0.19	1.3	3.6	B
	9	8	45	6.2	14	29.7	90	37.5	4.5	2.5	6	0	124	19	0.06	0.9	2.6	B

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR 9	8	46	14.0	14	35.1	90	56.0	3.8	2.6	6	0	287	28	0.15	6.6	2.4	C
9	8	50	9.1	14	30.2	90	37.2	5.3	2.0	6	0	130	18	0.05	0.9	2.4	A
9	8	54	30.1	14	29.6	90	38.1	4.6	1.6	6	1	118	19	0.18	0.7	2.4	A
9	9	10	15.9	14	39.6	91	8.6	18.8	2.3	6	5	321	51	0.17	1.6	1.7	A
9	9	11	9.8	14	39.4	91	7.0	5.6	2.1	6	6	319	49	0.22	1.2	2.4	A
9	9	13	55.4	14	40.6	91	6.7	1.5	2.0	6	3	319	49	0.18	2.2	4.1	B
9	9	24	36.8	14	45.4	91	1.8	0.0	2.1	6	4	314	43	0.27	2.0	3.7	B
9	9	26	58.4	14	44.5	91	2.7	3.2	1.8	6	3	315	45	0.14	2.0	3.1	F
9	9	40	22.9	14	38.7	91	4.8	5.5	2.1	6	5	316	45	0.16	1.4	2.3	A
9	9	47	44.3	14	39.7	91	4.3	1.8	2.3	6	4	315	44	0.12	1.5	3.1	B
9	9	53	57.3	14	43.9	91	2.7	5.4	1.8	6	3	314	44	0.18	1.7	3.2	B
9	9	55	0.4	14	40.1	91	7.6	8.3	2.1	6	5	320	50	0.21	1.4	2.6	B
9	9	55	18.3	14	40.8	91	5.5	13.7	2.4	6	1	318	47	0.20	2.8	2.4	B
9	9	56	50.6	14	39.5	91	5.6	2.0	1.7	5	3	318	46	0.17	1.9	3.7	B
9	10	12	10.2	14	44.4	91	2.9	7.3	2.3	6	4	315	45	0.20	1.3	3.0	B
9	10	13	24.8	14	39.8	91	4.3	2.8	1.5	6	3	316	44	0.07	1.5	3.4	B
9	10	26	26.0	14	38.7	91	5.1	0.1	1.8	5	2	316	45	0.12	2.6	5.2	C
9	10	37	42.0	14	38.0	91	3.4	2.3	2.5	6	3	313	42	0.22	1.8	3.4	B
9	11	14	45.0	14	38.8	91	7.2	0.5	2.2	6	3	319	49	0.17	2.4	4.0	B
9	11	15	26.9	14	41.7	91	10.5	2.7	2.4	6	0	324	56	0.14	9.4	36.4	D
9	11	23	24.9	14	37.9	91	6.3	2.1	2.2	6	3	317	47	0.17	2.1	3.6	B
9	11	33	33.4	14	40.2	91	6.1	0.3	2.1	6	4	318	48	0.16	1.9	3.7	B
9	11	34	21.2	14	45.5	91	6.0	5.3	2.5	6	5	320	51	0.16	1.9	2.8	B
9	11	54	38.7	14	37.4	91	7.0	2.9	2.3	5	5	321	48	0.17	1.7	3.1	B
9	12	4	29.1	14	48.9	90	44.4	8.5	2.2	6	4	298	31	0.19	1.2	2.1	A
9	12	25	23.3	14	40.6	91	7.3	9.6	2.1	6	3	320	50	0.09	2.0	2.8	B
9	12	30	4.3	14	45.1	91	6.4	5.2	2.3	6	3	321	51	0.15	2.4	3.3	B
13	15	5	24.2	14	29.5	90	33.9	1.8	3.0	6	0	164	21	0.07	1.4	5.2	C
13	15	8	37.0	14	30.2	90	34.2	3.6	2.7	6	1	168	19	0.19	1.3	3.5	B
13	15	16	30.5	14	31.7	90	33.6	4.0	1.9	6	3	186	17	0.19	1.3	3.3	B
13	15	17	0.6	14	30.7	90	36.2	0.5	2.5	5	1	213	24	0.16	1.3	4.8	B
13	15	54	23.7	14	40.9	90	59.8	8.3	1.8	6	3	305	38	0.11	1.2	2.6	B
13	16	6	43.5	14	29.8	90	32.5	5.7	2.1	6	3	191	21	0.25	1.6	2.8	B
13	16	9	32.0	14	30.8	90	33.1	1.1	2.4	6	0	188	19	0.10	1.6	6.0	C
13	16	16	8.7	14	44.4	91	5.4	2.6	2.6	5	2	322	50	0.13	3.0	3.8	B
13	16	30	44.1	14	37.7	90	55.2	4.5	3.0	6	0	285	28	0.15	6.8	2.6	C
13	16	46	26.8	14	44.7	91	1.8	8.1	1.9	4	3	319	44	0.16	2.1	2.6	B
13	17	9	12.2	14	43.0	91	5.9	5.9	2.4	6	1	319	49	0.04	2.8	3.5	B
13	17	16	20.8	14	43.0	91	2.2	7.6	2.1	6	2	312	43	0.05	2.4	2.4	A
13	17	17	46.5	14	33.8	90	58.4	2.4	2.1	6	0	300	32	0.23	8.2	6.3	C
13	17	24	24.2	14	43.3	91	1.9	4.8	2.0	6	1	312	43	0.18	3.0	3.3	B
13	17	25	5.9	14	38.4	90	53.5	5.1	2.4	6	0	278	25	0.20	5.7	1.6	C
13	17	30	34.7	14	34.3	91	0.1	0.0	2.5	6	3	304	35	0.19	1.5	3.2	B
13	17	37	40.6	14	40.3	91	0.3	5.5	2.0	6	2	306	38	0.14	1.8	3.1	B
13	17	44	18.3	14	30.3	90	33.0	1.3	1.9	6	1	187	20	0.07	1.6	5.7	C

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR	13	17	46 57.8	14	47.0	90	37.5	5.3	2.5	6	0	293	33	0.13	7.6	5.0	C
	13	17	48 20.9	14	41.7	91	5.2	3.3	2.1	5	3	319	48	0.22	2.6	3.7	B
	13	17	57 23.9	14	40.8	91	2.9	0.3	1.8	4	1	315	57	0.10	6.9	13.5	D
	13	18	0 15.7	14	41.1	91	4.5	1.0	1.8	6	3	316	45	0.16	1.7	3.9	B
	13	18	2 4.6	14	31.3	90	33.8	3.4	2.1	6	2	181	18	0.13	1.3	3.6	B
	13	18	3 34.0	14	39.6	90	59.4	6.3	2.5	6	3	303	36	0.23	1.7	2.2	A
	13	18	10 8.3	14	38.4	91	5.7	0.3	2.0	5	3	317	46	0.24	2.6	4.3	B
	13	18	16 52.1	14	40.6	91	0.6	11.8	2.4	5	4	307	39	0.17	1.3	1.4	A
	13	18	44 55.5	14	40.7	91	7.4	3.0	2.2	6	3	320	50	0.22	2.2	3.9	B
	13	18	47 1.4	14	42.8	91	6.0	8.2	2.0	6	3	319	49	0.16	2.1	2.8	B
	13	18	57 38.3	14	39.4	91	6.7	4.1	2.0	5	1	320	48	0.17	3.9	4.5	B
	13	19	1 9.4	14	38.2	91	4.5	0.1	1.8	5	3	315	47	0.17	2.4	4.3	B
	13	19	4 12.4	14	43.1	91	4.5	5.3	2.3	6	4	317	47	0.12	1.9	2.9	B
	13	19	5 36.9	14	44.5	91	3.4	11.8	2.1	6	4	316	46	0.24	1.2	2.6	B
	13	19	11 43.0	14	39.8	91	5.1	8.2	2.3	6	4	317	46	0.11	1.2	2.7	B
	13	19	27 1.0	14	38.9	90	44.5	2.9	2.3	5	0	195	14	0.01	1.6	4.0	B
	13	19	29 21.0	14	42.3	91	3.4	1.1	2.1	6	2	314	44	0.08	2.5	4.0	B
	13	19	38 24.2	14	50.6	91	8.6	1.9	3.2	6	0	326	58	0.07	5.8	42.1	D
	13	19	42 4.2	14	40.0	91	1.4	5.7	1.8	6	2	309	40	0.16	1.6	2.7	B
	13	19	47 7.2	14	30.7	90	33.5	0.6	1.6	4	2	181	19	0.09	0.8	7.6	C
	13	20	0 21.6	14	37.9	90	55.8	4.8	2.8	6	0	288	29	0.09	7.4	3.1	C
	13	20	5 42.5	14	40.9	91	2.4	9.4	2.0	6	3	312	42	0.37	1.6	2.4	A
	13	20	7 15.3	14	29.5	90	33.8	4.2	1.7	6	2	167	21	0.12	0.8	2.0	A
	13	20	7 33.8	14	30.3	90	34.0	2.4	2.2	6	2	171	20	0.16	1.3	4.2	B
	13	20	9 23.6	14	41.8	91	4.1	8.3	2.0	6	3	316	45	0.15	1.7	2.8	B
	13	20	18 21.6	14	32.8	90	34.5	13.8	1.6	3	2	230	29	0.04	37.9	37.9	D
	13	20	18 49.4	14	29.7	90	32.2	5.0	1.7	6	3	196	22	0.19	0.9	1.8	A
	13	20	21 7.4	14	44.5	91	3.7	1.8	2.0	6	3	316	46	0.16	2.1	3.9	B
	13	20	32 30.0	14	41.7	91	4.5	3.5	2.3	6	3	316	46	0.18	1.9	3.5	B
	13	20	53 46.9	14	41.8	91	2.3	1.4	2.1	6	3	312	42	0.11	1.9	3.6	B
	13	21	1 1.8	14	41.0	91	3.1	7.2	1.8	6	4	313	43	0.07	1.2	3.5	B
	13	21	10 30.1	14	30.5	90	34.0	9.1	1.5	6	3	172	19	0.22	0.8	1.1	A
	13	21	10 50.3	14	33.6	91	0.9	1.4	1.8	4	4	306	36	0.13	1.4	3.0	B
	13	21	12 22.1	14	40.4	91	1.2	0.0	2.1	6	2	309	39	0.13	1.9	5.1	C
	13	21	14 31.4	14	45.7	91	3.2	4.8	2.1	6	2	316	46	0.11	2.7	3.1	B
	13	21	17 31.3	14	38.7	91	3.8	1.3	1.8	6	2	314	43	0.09	2.3	3.7	B
	13	21	20 44.7	14	42.0	91	2.7	3.3	2.0	6	4	313	43	0.14	1.4	3.3	B
	13	21	39 58.3	14	43.3	91	0.2	0.9	1.9	6	3	309	40	0.19	1.9	3.8	B
	13	21	41 17.4	14	44.5	91	9.7	0.4	2.1	6	4	325	56	0.17	2.3	4.8	B
	13	21	57 52.6	14	41.0	91	3.3	0.4	2.0	6	4	314	43	0.20	2.1	3.6	B
	13	22	5 15.5	14	40.2	91	6.7	4.4	2.4	6	4	319	49	0.19	1.4	3.4	B
	13	22	27 24.6	14	43.4	91	3.9	1.6	2.2	5	4	316	46	0.16	1.5	3.2	B
	13	22	36 19.8	14	41.4	91	3.6	5.6	2.4	6	2	314	44	0.07	2.5	2.7	B
	13	22	47 40.6	14	42.3	91	3.2	0.2	1.5	5	1	314	44	0.17	3.2	6.5	C
	13	22	49 52.8	14	41.9	91	2.3	3.1	2.1	6	5	312	42	0.20	1.3	2.3	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAR 13	22	56	29.7	14	31.4	90	32.3	5.6	0.8	5	3	204	19	0.14	0.9	1.9	A
13	23	14	37.5	14	44.4	91	6.4	10.6	2.3	6	4	321	51	0.25	1.3	3.1	B
13	23	15	23.8	14	43.9	91	6.2	7.1	2.2	5	4	320	51	0.14	1.5	5.0	C
13	23	19	1.9	14	39.2	91	4.6	3.9	2.3	6	5	316	44	0.12	1.1	2.6	B
13	23	20	49.6	14	39.8	91	2.6	0.5	2.1	6	5	312	41	0.21	1.4	2.7	B
13	23	37	2.3	14	44.6	91	2.0	5.4	2.3	5	4	313	43	0.18	1.7	2.6	B
14	0	18	27.2	14	29.9	90	34.1	2.2	2.5	6	1	165	20	0.13	1.2	4.6	B
14	0	50	20.7	14	44.6	91	3.2	5.8	2.3	6	3	316	46	0.13	1.5	3.2	B
14	0	58	40.7	14	42.2	91	4.5	0.3	1.8	4	3	316	46	0.14	3.6	7.0	C
APR 1	13	56	9.3	14	36.1	90	50.4	1.7	1.7	6	2	182	18	0.14	1.1	2.3	A
1	15	28	39.6	14	37.0	91	0.9	4.6	2.1	6	2	307	37	0.07	1.9	2.6	B
1	15	39	27.9	14	42.0	90	32.5	11.9	1.7	3	3	285	36	0.13	1.4	2.4	A
1	16	4	45.8	14	36.3	90	50.1	3.1	1.8	6	2	183	18	0.18	2.0	3.2	B
1	16	24	50.3	14	33.3	91	18.0	6.4	2.4	5	0	328	67	0.19	24.1	87.0	D
1	19	3	22.4	14	36.0	90	41.9	10.9	1.9	5	2	180	23	0.13	1.2	0.9	A
1	20	2	34.9	14	44.3	91	1.5	10.6	2.2	6	2	312	42	0.22	1.7	2.5	B
1	23	56	58.6	14	32.3	91	4.6	0.9	2.1	6	2	312	43	0.16	1.9	5.1	C
2	2	1	46.2	14	35.4	90	42.2	5.9	1.3	5	3	176	22	0.23	0.8	0.9	A
2	3	27	50.2	14	45.8	90	40.7	6.8	1.6	5	3	309	39	0.13	1.6	1.9	A
2	3	59	13.0	14	31.6	90	57.7	1.3	2.1	5	2	286	30	0.25	1.7	4.0	B
2	4	29	44.6	14	31.3	91	0.5	1.5	1.9	5	2	299	35	0.23	2.6	3.7	B
2	6	2	28.0	14	33.2	91	4.8	4.7	2.5	6	2	312	43	0.13	1.7	3.6	B
2	7	32	45.4	14	36.5	90	50.2	5.0	2.0	6	2	192	18	0.16	1.8	2.5	B
2	9	21	25.9	14	33.3	90	41.4	6.3	1.9	6	2	101	19	0.11	0.6	1.4	A
2	10	12	46.0	14	30.0	90	34.7	0.2	1.9	5	3	158	20	0.16	0.7	4.4	B
2	10	27	50.7	14	36.9	90	46.1	10.1	2.0	6	1	170	15	0.14	1.3	2.4	A
2	11	9	37.7	14	40.4	90	50.6	9.9	1.9	5	2	260	23	0.20	1.2	1.5	A
2	11	13	28.4	14	36.3	90	56.5	7.3	2.6	6	3	290	29	0.22	1.2	1.5	A
2	14	55	25.4	14	30.4	90	38.4	8.2	1.6	6	3	121	18	0.16	0.6	0.9	A
2	15	13	1.1	14	31.2	90	37.7	5.8	1.9	4	3	132	16	0.12	0.6	1.2	A
2	15	41	18.6	14	31.4	91	0.0	10.0	3.1	6	3	297	34	0.22	1.5	1.5	A
2	16	52	3.5	14	29.7	90	59.2	2.3	2.9	6	2	288	33	0.34	2.4	3.3	B
2	17	13	45.6	14	25.1	90	18.6	0.4	2.5	6	2	305	42	0.16	2.0	5.7	C
2	17	22	51.7	14	36.6	90	56.9	2.3	2.6	6	1	292	30	0.07	2.5	3.6	B
2	19	24	13.5	14	32.2	91	6.1	1.2	2.6	6	2	314	45	0.12	2.4	4.0	B
3	4	18	52.4	14	41.7	91	4.5	6.0	2.4	5	3	335	46	0.18	2.9	3.7	B
3	7	6	17.6	14	33.2	90	40.0	6.3	2.0	5	4	169	21	0.08	0.7	0.7	A
3	10	22	14.6	14	38.0	90	57.5	8.9	2.5	6	2	295	32	0.24	1.8	1.7	A
3	10	33	20.4	14	29.8	90	34.1	3.9	2.7	6	0	165	20	0.03	1.4	3.5	B
3	10	34	2.6	14	30.0	90	34.4	5.1	3.4	6	0	162	20	0.15	1.3	3.0	B
3	12	14	22.1	14	50.3	91	0.2	15.6	3.1	3	2	352	47	0.01	3.6	2.9	B
3	19	55	19.9	14	29.8	90	34.8	5.3	2.2	5	1	154	24	0.21	4.0	12.0	D
3	21	57	53.6	14	18.7	90	21.5	3.5	2.7	5	2	306	43	0.14	1.7	4.4	B
4	1	22	39.2	14	44.3	90	47.2	6.3	2.3	4	4	309	33	0.15	1.4	2.2	A
4	2	55	38.2	14	31.0	90	37.0	3.5	2.5	6	3	138	17	0.18	0.6	2.4	A

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR 4	3	57	10.4	14	29.5	90	34.5	3.3	2.0	5	3	155	20	0.03	0.7	2.5	A
4	6	41	34.6	14	50.2	90	47.8	14.1	3.3	6	1	303	35	0.21	1.7	2.8	B
4	6	43	42.9	14	27.0	90	43.6	6.9	2.4	6	2	104	17	0.18	0.7	2.8	B
4	7	50	41.2	14	44.1	90	44.5	7.1	2.1	5	2	264	34	0.23	1.8	2.4	A
5	14	40	0.5	14	38.7	91	2.9	6.8	2.7	6	2	312	41	0.16	1.9	2.6	B
5	21	5	13.6	13	55.0	91	35.4	15.3	3.3	5	4	340	109	0.18	7.9	13.8	D
5	21	55	51.1	14	39.6	90	35.9	13.0	1.8	4	2	242	26	0.09	2.3	1.1	A
5	22	46	35.4	14	44.4	91	0.8	13.2	2.1	5	3	311	41	0.17	2.3	1.9	A
6	2	19	50.6	14	30.5	90	34.8	2.5	2.2	6	2	160	19	0.21	0.9	4.0	B
6	4	40	48.5	14	29.8	90	33.6	6.2	3.4	6	0	171	21	0.04	1.6	2.9	B
6	4	48	23.5	14	29.8	90	33.2	6.2	2.3	5	4	179	21	0.19	0.7	1.7	A
6	5	15	28.3	14	29.7	90	34.1	4.4	2.0	5	4	164	20	0.15	0.7	1.7	A
7	4	22	38.7	14	42.4	91	0.4	4.9	2.4	5	4	308	40	0.15	1.0	2.6	B
7	4	54	3.1	14	29.1	90	33.8	5.1	2.2	5	1	162	22	0.09	1.1	1.9	A
7	5	3	27.5	14	28.6	90	34.5	0.1	2.0	5	3	186	22	0.19	1.2	5.4	C
7	5	8	15.6	14	26.9	90	31.9	15.0	2.1	4	2	167	27	0.21	1.2	1.3	A
7	5	11	26.5	14	34.5	90	31.0	4.1	2.1	5	4	234	18	0.22	0.9	2.0	A
7	5	46	6.7	14	29.4	90	33.3	4.2	1.9	4	4	173	22	0.18	0.7	2.0	A
7	5	57	38.1	14	36.3	90	42.8	5.3	2.1	5	4	144	16	0.11	0.5	1.4	A
7	6	3	31.7	14	46.1	90	32.7	9.0	2.0	4	3	314	39	0.18	1.6	2.0	A
7	6	9	50.4	14	29.5	90	35.3	1.2	3.5	6	0	145	20	0.10	1.1	5.8	C
7	6	14	54.2	14	29.2	90	34.1	7.2	2.1	4	3	159	21	0.16	0.7	1.6	A
7	6	20	14.3	14	29.9	90	34.8	7.6	2.2	6	3	155	20	0.26	0.6	1.3	A
7	6	22	51.7	14	31.3	90	35.6	12.4	1.9	5	3	219	26	0.15	1.0	1.1	A
7	6	23	44.9	14	29.5	90	33.1	9.4	1.7	5	3	177	21	0.33	0.7	1.4	A
7	6	25	0.0	14	29.5	90	34.4	1.6	2.1	5	2	157	21	0.21	1.0	3.8	B
7	6	30	47.1	14	41.9	90	25.8	1.0	2.7	6	3	298	32	0.22	1.7	3.8	B
7	6	35	36.5	14	29.3	90	33.7	8.5	2.9	6	0	166	21	0.08	1.7	2.7	B
7	6	37	16.6	14	29.0	90	34.3	0.0	2.8	6	1	154	21	0.21	1.2	7.4	C
7	6	43	14.3	14	29.6	90	33.4	5.0	2.9	5	1	174	21	0.20	1.7	3.2	B
7	6	50	36.8	14	29.5	90	33.6	6.5	1.9	5	3	169	21	0.20	0.7	1.7	A
7	7	0	32.0	14	29.2	90	37.5	2.0	2.4	3	2	262	28	0.18	2.2	20.9	D
7	18	7	49.2	14	29.5	90	32.0	8.2	2.8	6	0	198	22	0.10	2.3	2.7	B
7	21	40	52.1	14	29.5	90	33.6	5.6	2.1	5	4	170	21	0.20	0.7	1.8	A
7	22	9	51.8	14	30.0	90	35.9	5.5	2.2	5	3	216	24	0.25	1.0	1.8	A
7	22	20	4.8	14	29.8	90	32.5	5.6	2.7	5	2	244	26	0.18	1.7	3.7	B
7	22	56	43.3	14	30.3	90	34.9	5.1	2.3	5	2	224	25	0.07	1.1	3.3	B
7	23	48	39.6	14	29.6	90	34.6	4.0	2.5	6	2	157	20	0.14	1.0	3.4	B
8	0	58	42.9	14	29.7	90	34.7	2.0	2.6	6	0	155	20	0.08	1.2	4.8	B
8	4	26	32.6	14	35.3	90	39.8	8.4	2.0	5	3	120	21	0.24	0.8	0.8	A
8	5	29	9.9	14	45.4	90	31.0	2.6	2.6	6	3	297	35	0.09	1.8	3.0	B
8	7	40	46.3	14	29.3	90	35.0	1.9	2.7	6	3	148	21	0.16	1.1	4.4	B
8	15	49	56.7	13	51.7	91	20.6	3.5	3.0	6	2	337	96	0.12	10.3	13.7	D
8	23	25	55.9	14	42.8	91	3.3	6.6	3.3	6	0	314	45	0.10	12.5	15.6	D
8	23	37	38.5	14	35.8	90	44.0	12.7	2.5	5	0	144	14	0.00	1.3	2.2	A

1970	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR 8	23	48	9.2	14	46.9	90	38.7	7.4	2.6	6	3	293	31	0.25	1.5	1.8	A
9	5	49	43.6	14	38.0	90	32.4	1.0	2.5	6	2	246	22	0.15	1.1	5.3	C
9	6	15	50.8	14	30.7	90	34.4	3.9	1.8	4	2	278	30	0.06	1.9	3.8	B
9	7	15	49.9	14	30.4	90	33.2	8.9	2.1	5	4	183	20	0.26	0.7	1.5	A
9	9	10	8.5	14	41.2	90	17.9	0.0	2.6	6	3	315	44	0.18	2.7	5.0	B
9	13	13	14.0	14	43.2	91	2.7	8.1	2.3	6	2	314	44	0.12	1.8	2.8	B
9	15	13	49.5	14	34.0	90	36.6	5.4	1.5	3	3	257	28	0.04	2.1	1.5	A
9	18	52	52.8	14	45.6	90	44.0	16.5	1.9	4	4	296	37	0.11	1.5	1.2	A
9	20	27	58.8	14	43.9	90	55.6	14.8	2.6	4	2	299	34	0.11	1.9	3.5	B
9	23	19	1.4	14	34.3	90	52.7	3.2	3.1	6	1	233	22	0.16	3.3	2.8	B
10	4	51	57.7	14	45.4	90	23.3	0.6	2.3	5	3	313	40	0.17	2.4	4.2	B
10	5	24	18.5	14	33.7	90	58.3	3.5	1.8	5	4	300	31	0.16	1.2	2.1	A
10	10	21	42.3	14	34.6	90	43.1	6.3	2.2	6	3	124	15	0.13	0.6	0.9	A
10	11	34	56.3	14	37.9	90	50.1	6.5	1.9	5	4	226	21	0.25	1.4	1.2	A
10	19	23	6.8	14	39.2	90	53.2	9.3	1.9	5	3	279	25	0.14	1.1	1.6	A
10	20	9	23.4	14	39.8	90	32.6	0.1	2.2	6	3	263	25	0.08	1.3	4.5	B
10	23	29	5.3	14	29.7	90	37.7	0.3	1.7	4	4	168	22	0.05	1.3	8.5	C
11	0	29	46.5	14	40.1	91	2.6	6.0	2.4	6	3	312	42	0.10	1.4	2.6	B
11	0	36	19.0	14	29.1	90	33.6	4.1	1.5	5	4	165	22	0.08	0.7	1.7	A
11	4	27	21.2	14	30.5	90	34.5	4.5	1.5	6	3	166	19	0.12	0.7	1.5	A
11	8	5	54.0	14	44.2	91	0.0	14.6	2.7	6	1	309	40	0.14	2.5	2.1	B
11	8	58	17.7	14	37.5	90	52.8	6.8	1.8	5	2	272	23	0.20	1.2	1.3	A
11	9	24	15.0	14	46.4	90	57.2	8.5	2.3	6	3	308	38	0.10	1.3	2.5	B
11	9	44	38.5	14	39.9	91	1.4	4.5	2.6	6	2	309	39	0.11	2.2	2.5	B
11	14	5	21.4	14	43.7	90	46.3	11.9	2.2	6	3	263	23	0.22	1.1	1.3	A
11	14	40	27.3	14	38.6	90	46.7	0.3	1.8	6	1	202	16	0.17	1.9	5.6	C
11	17	41	54.0	14	39.3	90	34.5	2.1	2.6	6	1	246	25	0.16	2.2	3.5	B
11	19	40	28.1	14	30.1	90	33.3	6.0	2.7	5	0	179	26	0.02	6.4	11.9	D
11	20	18	58.3	14	42.7	90	59.0	10.2	2.3	5	3	328	38	0.06	2.0	1.9	A
12	0	55	9.6	14	27.9	90	32.6	6.1	1.8	4	3	168	24	0.08	0.8	1.7	A
12	2	55	8.2	14	38.8	90	53.7	8.7	1.8	5	3	280	26	0.15	1.2	1.4	A
12	4	37	16.3	14	30.0	90	33.8	5.6	2.0	5	3	171	20	0.21	1.2	3.2	B
12	5	50	4.7	14	29.7	90	34.6	3.5	1.5	3	4	204	20	0.10	1.2	4.1	B
12	8	8	8.5	14	40.3	90	22.8	0.6	2.3	6	3	302	36	0.10	1.6	4.8	B
12	8	58	12.4	14	38.5	90	52.8	9.8	1.7	5	4	275	24	0.18	1.1	0.8	A
12	9	1	11.2	14	35.6	90	54.1	8.7	2.4	6	4	276	24	0.29	1.0	1.1	A
12	9	3	28.4	14	36.9	90	50.3	8.5	2.7	6	2	209	19	0.47	1.1	1.3	A
12	9	28	58.3	14	29.5	90	34.4	2.7	2.0	6	3	157	20	0.10	1.1	4.2	B
12	10	2	10.3	14	33.8	90	30.2	5.6	2.0	4	3	241	19	0.15	1.0	2.0	A
12	13	37	22.8	14	38.0	90	58.5	4.8	2.9	6	2	299	33	0.16	1.7	2.2	A
12	14	28	59.9	14	38.2	91	3.2	4.7	2.3	5	4	313	42	0.20	1.1	2.4	A
12	16	4	59.3	14	39.9	91	6.3	1.2	2.6	5	1	319	48	0.08	3.8	4.9	B
12	18	7	27.8	14	36.7	90	49.7	11.5	2.0	5	4	193	18	0.27	0.8	1.3	A
12	18	10	10.6	14	39.8	91	5.2	7.6	2.3	5	4	317	46	0.20	1.8	2.1	A
12	18	59	17.3	14	43.1	90	59.6	0.7	2.9	6	2	307	39	0.07	2.7	3.8	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR 12	22	17	32.8	14	47.3	90	55.3	0.5	1.9	4	2	329	58	0.16	3.5	9.1	C
12	23	16	32.2	14	39.8	91	2.9	0.7	2.4	4	3	312	44	0.11	1.3	4.1	B
13	1	11	6.8	14	36.3	90	30.3	6.6	2.6	6	1	250	20	0.14	2.2	3.0	B
13	3	17	45.4	14	48.4	91	2.4	5.1	2.4	6	1	316	46	0.07	2.5	5.2	C
13	8	51	9.7	14	39.1	90	23.8	0.2	2.1	5	4	296	33	0.15	1.6	3.9	B
13	17	44	37.2	14	44.6	90	33.1	1.1	2.9	6	2	291	34	0.11	1.9	3.4	B
13	18	23	18.2	14	39.6	90	34.2	1.4	2.0	4	3	252	38	0.08	2.7	5.1	C
13	19	26	12.3	14	35.6	90	50.3	2.4	2.0	5	2	156	23	0.11	2.2	3.9	B
13	21	51	56.3	14	38.5	91	0.0	19.0	3.0	5	3	304	39	0.16	1.6	2.0	A
14	4	26	51.0	14	39.3	90	24.2	0.2	2.5	6	2	295	33	0.13	2.0	5.4	C
14	14	51	36.1	13	46.1	90	11.8	4.5	3.0	5	0	343	100	0.14	20.3	97.1	D
14	14	55	13.7	14	29.7	90	34.0	5.2	1.9	5	4	165	20	0.14	1.1	3.3	B
14	18	39	54.0	14	37.5	91	0.4	8.2	1.9	5	4	305	36	0.22	1.3	1.5	A
14	23	32	7.4	14	36.9	91	6.0	11.5	2.4	5	3	316	50	0.19	1.7	2.1	A
15	2	43	57.5	14	37.8	90	59.4	10.7	1.7	6	3	302	35	0.15	2.0	1.5	A
15	3	47	15.6	14	5.5	90	26.3	1.3	2.7	6	0	325	56	0.20	10.2	44.3	D
15	4	41	19.4	14	34.8	90	44.1	6.1	1.8	5	4	190	14	0.13	0.5	1.0	A
15	10	2	24.1	14	44.8	90	7.3	2.0	3.3	6	0	330	65	0.16	4.7	99.0	D
15	10	15	31.4	14	36.5	90	50.2	3.1	2.4	6	2	196	19	0.13	2.1	3.0	B
15	10	26	14.6	14	36.6	90	50.0	1.5	2.5	6	2	193	18	0.12	2.1	4.5	B
15	11	13	13.8	14	38.7	90	58.0	20.6	1.8	2	4	330	36	0.27	1.8	1.6	A
15	13	8	41.0	14	46.5	91	0.1	12.0	2.2	5	3	312	41	0.28	1.7	1.9	A
15	13	32	39.4	14	42.9	90	48.5	0.2	3.2	6	0	264	24	0.10	4.8	6.7	C
15	18	25	39.9	14	38.0	90	52.0	6.0	2.0	5	4	269	23	0.21	1.0	0.8	A
15	19	24	25.4	14	41.0	91	3.7	4.1	2.3	6	2	315	44	0.10	2.6	3.6	B
15	19	40	45.4	14	35.5	91	1.4	18.3	2.4	3	5	309	37	0.23	1.4	1.2	A
15	21	15	30.2	14	40.7	90	49.2	14.3	1.9	5	4	249	22	0.22	1.0	1.0	A
15	22	46	28.2	14	41.8	91	5.1	8.3	2.1	5	2	318	47	0.06	2.9	3.3	B
16	5	10	33.6	14	41.3	91	0.8	7.3	2.3	6	2	308	40	0.13	2.6	2.5	B
16	11	11	15.8	14	47.2	90	44.3	13.1	2.0	5	3	289	28	0.14	1.2	1.8	A
16	11	54	34.2	14	45.1	91	2.2	6.7	2.3	4	4	334	45	0.23	1.8	2.7	B
16	13	6	46.6	14	42.9	91	0.4	0.0	3.5	6	2	309	40	0.17	2.6	3.4	B
16	16	33	30.5	14	42.8	90	26.5	0.0	3.2	6	0	300	32	0.15	9.4	20.8	D
16	17	20	47.9	14	42.9	90	45.8	4.0	2.4	6	2	253	21	0.11	2.4	3.4	B
16	17	58	39.4	14	39.3	90	28.7	1.3	2.8	4	2	312	42	0.27	3.4	5.7	C
16	19	53	37.5	14	44.4	91	0.9	10.4	2.5	6	2	311	42	0.15	2.7	2.5	B
16	20	13	26.4	14	38.9	90	48.4	2.6	2.1	5	2	220	18	0.11	2.4	4.3	B
16	21	12	56.3	14	31.5	91	9.0	14.2	2.3	5	3	318	51	0.17	1.5	2.5	A
16	23	32	6.9	14	50.9	90	59.5	22.1	2.5	4	4	318	47	0.12	1.6	2.2	A
16	23	49	49.1	14	53.8	90	20.2	0.4	2.5	5	3	322	55	0.13	3.2	6.0	C
17	0	3	28.2	14	40.8	90	50.6	10.6	2.0	5	4	263	24	0.17	1.3	1.0	A
17	0	59	58.0	14	35.3	90	44.3	6.2	2.8	6	0	138	14	0.05	0.9	2.2	A
17	2	41	23.7	14	34.7	90	58.2	8.1	1.9	6	2	298	31	0.05	2.4	1.6	A
17	2	50	56.0	14	32.4	91	12.2	7.2	3.0	5	0	322	62	0.18	28.0	56.6	D
17	3	56	17.6	14	45.4	91	1.7	11.0	3.1	6	2	314	43	0.13	2.0	3.4	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR 17	8	7	3.6	14	40.9	90	34.4	3.4	2.2	6	3	272	28	0.21	1.6	2.1	A
17	8	41	19.6	14	35.5	90	41.1	6.8	2.3	6	2	120	19	0.13	0.7	1.7	A
17	10	28	39.5	14	37.7	90	50.8	8.8	2.4	6	2	239	20	0.29	1.9	1.9	A
17	10	47	15.5	14	39.8	91	0.1	4.5	2.7	6	3	305	37	0.17	1.4	2.5	B
17	11	32	4.5	14	25.9	90	18.2	0.7	2.6	6	3	305	43	0.17	2.0	4.2	B
18	19	43	4.9	14	30.2	90	35.1	3.1	2.4	6	2	155	19	0.15	1.0	3.6	B
19	13	20	36.2	14	45.0	91	1.9	10.3	2.1	4	3	314	43	0.23	1.8	2.9	B
19	13	57	45.4	14	31.1	90	34.4	1.1	2.6	6	0	172	18	0.14	1.3	5.9	C
19	20	15	19.8	14	18.3	90	20.5	5.5	2.4	5	2	308	51	0.13	1.7	3.6	B
19	20	16	11.8	13	38.3	90	47.6	2.4	2.7	5	2	338	93	0.18	10.4	12.5	D
19	20	31	32.5	14	28.3	90	34.5	1.4	2.2	5	2	147	23	0.14	3.8	19.6	D
19	22	58	25.0	14	40.9	91	2.0	0.8	2.4	5	2	311	41	0.10	2.1	5.2	C
19	23	56	18.0	14	38.2	90	27.3	0.1	2.1	4	3	278	27	0.20	1.9	5.1	C
20	0	9	45.9	14	50.3	90	39.6	7.2	2.1	6	3	303	34	0.15	1.7	2.3	A
20	4	32	28.4	14	36.6	91	2.0	0.2	2.2	5	2	310	39	0.09	2.7	4.5	B
20	7	5	54.9	14	20.9	90	28.6	1.2	2.3	5	2	284	30	0.11	1.9	3.6	B
20	9	12	4.1	14	20.8	90	27.0	5.8	2.5	5	3	289	33	0.19	1.5	2.2	A
20	11	45	26.2	14	34.5	91	0.1	6.8	2.1	4	3	306	35	0.10	1.7	2.0	A
20	12	19	58.0	14	41.2	90	34.1	5.3	2.1	4	4	277	28	0.23	1.1	1.7	A
20	13	32	53.4	14	34.9	90	41.0	4.6	1.9	5	1	113	23	0.10	3.0	15.1	D
20	13	56	30.1	14	48.8	90	42.1	7.9	2.5	6	3	300	31	0.18	1.9	1.5	A
20	16	25	14.1	14	36.1	90	55.9	11.6	1.9	4	3	287	33	0.20	1.4	1.3	A
20	18	41	11.3	14	41.9	91	3.2	7.3	2.4	6	2	314	44	0.19	2.7	3.0	B
21	3	6	36.7	14	41.7	90	36.6	0.9	1.9	6	2	274	29	0.13	1.3	2.2	A
21	3	23	8.7	14	30.9	90	32.7	7.3	1.8	5	2	195	20	0.04	1.2	2.1	A
21	3	23	58.3	14	49.9	90	40.5	14.6	2.1	5	4	302	33	0.21	1.2	1.4	A
21	4	10	34.5	14	30.3	90	32.8	10.1	1.8	4	3	189	20	0.14	0.9	1.2	A
21	5	10	45.3	14	31.1	90	33.8	2.6	1.1	4	2	179	18	0.10	1.3	5.1	C
21	5	19	23.1	14	32.3	90	32.5	1.7	1.9	5	2	205	17	0.23	1.7	5.3	C
21	5	26	20.6	14	31.2	90	32.8	4.0	2.0	5	4	195	19	0.16	0.9	1.7	A
21	7	45	43.6	14	41.4	90	46.3	6.7	1.6	5	3	238	19	0.10	1.1	1.7	A
21	10	52	13.5	14	38.8	91	1.3	7.2	2.5	6	3	308	39	0.15	1.3	2.2	A
21	10	53	29.1	14	39.2	91	0.2	5.1	2.4	6	3	305	37	0.21	1.3	2.4	A
21	11	23	38.4	14	45.9	90	43.4	5.6	2.0	6	2	281	25	0.25	1.8	2.4	A
21	11	24	36.3	14	45.6	90	43.7	16.0	2.4	5	2	290	37	0.22	2.0	2.7	B
21	12	40	47.6	14	35.7	90	42.5	2.9	1.8	5	4	183	16	0.15	0.6	1.3	A
21	14	29	17.3	14	40.6	90	59.9	9.6	2.5	5	2	311	39	0.07	2.0	2.4	A
21	14	54	8.6	14	43.9	91	5.1	2.1	2.2	5	2	318	49	0.08	2.9	5.9	C
21	15	3	37.6	14	36.9	90	55.9	2.4	2.1	4	3	287	28	0.23	1.4	2.2	A
21	15	14	41.2	14	41.3	90	45.5	8.9	2.8	6	2	233	19	0.16	1.8	2.6	B
21	15	17	37.7	14	43.1	90	46.5	9.4	1.9	4	2	257	22	0.08	1.1	2.3	A
21	16	16	18.7	14	30.3	90	34.7	3.5	1.7	4	5	160	19	0.16	1.0	3.5	B
21	23	48	2.8	14	40.6	90	45.9	5.7	2.0	4	4	227	18	0.12	0.9	1.8	A
22	4	23	50.3	14	37.6	90	46.2	0.4	1.9	5	0	183	15	0.23	1.5	8.7	C
22	4	34	35.5	14	30.8	90	31.5	0.4	2.2	5	3	213	21	0.14	2.0	6.2	C

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR 22	4	36	34.3	14	45.1	90	43.0	5.4	2.0	5	2	276	24	0.24	2.0	2.7	B
22	4	46	42.9	14	50.3	90	40.1	19.2	1.9	4	2	317	47	0.16	1.9	2.2	A
22	6	34	17.7	14	47.8	90	29.7	4.8	2.6	6	3	304	40	0.13	1.4	3.9	B
22	14	9	1.7	14	44.8	90	38.2	15.4	1.5	4	1	307	36	0.08	6.5	2.0	C
22	14	26	15.2	14	36.1	90	39.5	0.0	1.1	4	3	148	23	0.25	0.9	3.8	B
22	15	24	42.2	14	45.0	90	59.8	6.6	2.1	5	3	310	40	0.11	1.8	3.0	B
22	16	16	35.4	14	37.9	91	6.3	3.6	2.2	6	1	317	47	0.04	2.7	6.5	C
22	18	6	37.6	14	32.1	91	0.1	1.2	2.1	5	3	300	35	0.11	1.5	2.9	B
22	18	39	17.8	14	41.0	90	57.0	7.3	2.4	5	2	297	33	0.15	1.7	2.5	B
22	19	6	21.4	14	31.2	90	33.2	5.2	1.9	5	2	190	19	0.10	0.9	1.9	A
22	19	8	20.5	14	31.5	90	32.9	3.5	1.9	5	3	195	18	0.10	0.9	2.1	A
22	19	45	25.0	14	31.9	90	31.1	7.0	1.6	5	4	223	20	0.20	0.9	1.3	A
22	19	46	46.7	14	27.2	90	18.0	1.7	2.4	6	2	305	43	0.22	1.9	5.6	C
22	20	17	59.1	14	31.3	90	32.2	8.0	2.0	4	2	204	19	0.05	1.0	1.7	A
23	1	10	50.7	14	32.1	90	31.9	5.3	1.6	4	4	213	18	0.12	0.8	1.8	A
23	3	4	9.0	14	31.9	90	33.0	1.5	1.7	5	4	196	18	0.15	1.4	4.9	B
23	3	26	32.9	14	31.5	90	33.2	5.5	1.9	4	4	192	18	0.13	0.8	1.7	A
23	14	10	34.0	14	43.5	90	47.6	11.8	1.8	5	2	264	24	0.15	1.1	1.6	A
23	14	20	26.5	14	30.4	90	42.0	6.3	2.5	6	1	140	17	0.09	0.9	2.0	A
23	15	28	47.6	14	31.1	90	33.5	2.5	1.5	4	3	184	19	0.06	1.4	4.6	B
23	19	16	13.4	14	41.9	90	30.2	0.2	2.0	5	4	287	29	0.14	1.5	3.6	B
23	19	38	13.6	14	47.3	90	45.7	8.6	2.3	5	2	289	29	0.23	1.3	2.1	A
23	22	43	38.5	14	31.3	90	33.1	2.4	1.5	5	4	192	19	0.08	0.9	2.4	A
24	1	14	12.2	14	42.2	90	44.4	6.4	2.2	6	3	243	19	0.25	1.5	2.4	A
24	1	39	8.4	14	47.0	90	43.4	6.7	2.0	6	2	289	28	0.09	1.8	2.3	A
24	3	2	46.1	14	43.6	90	57.3	10.9	2.2	5	3	303	35	0.14	2.3	1.5	A
24	4	28	55.1	14	46.5	90	42.6	9.9	1.7	5	3	286	26	0.15	1.4	1.5	A
24	6	38	57.8	14	43.2	90	41.7	4.8	2.8	6	1	261	23	0.16	2.3	2.4	A
24	8	58	57.9	14	40.7	90	26.0	0.0	2.2	6	3	293	31	0.20	1.7	7.6	C
24	9	47	58.0	14	38.1	90	46.6	11.4	1.7	4	3	192	15	0.17	0.8	1.3	A
24	10	22	1.1	14	40.5	90	44.4	6.7	2.1	6	3	219	16	0.15	0.9	1.5	A
24	12	41	49.9	14	37.5	91	3.3	0.6	2.1	5	2	313	41	0.13	1.5	7.3	C
24	16	1	48.0	14	32.1	90	32.7	7.6	2.2	5	4	202	18	0.23	0.7	1.6	A
24	18	5	8.9	14	31.8	90	32.1	3.8	2.1	5	3	209	19	0.22	1.5	3.0	B
25	1	54	32.3	14	46.7	90	44.7	16.3	2.1	5	2	286	27	0.12	1.7	1.7	A
25	5	12	40.5	14	33.7	90	58.1	7.5	1.8	5	2	299	31	0.17	2.4	1.7	A
25	10	29	59.0	14	42.5	90	46.6	5.2	1.9	5	3	251	21	0.11	1.1	2.0	A
25	12	1	8.1	14	35.6	90	32.8	3.1	2.4	6	3	222	17	0.18	0.9	2.4	A
25	12	7	39.8	14	48.1	90	37.7	6.2	2.6	6	2	297	34	0.12	2.4	2.1	A
25	12	53	43.0	14	32.3	90	31.2	7.2	2.2	6	3	223	19	0.12	0.9	1.3	A
25	13	0	32.1	14	32.4	90	34.3	0.9	2.0	6	3	182	16	0.12	1.3	5.0	C
25	13	51	31.1	14	44.0	91	1.8	15.3	2.4	6	2	313	43	0.19	2.8	2.2	B
25	15	6	43.6	14	35.6	90	40.3	9.0	1.7	4	2	157	24	0.17	1.1	1.9	A
25	15	36	49.7	14	45.1	91	0.0	13.4	2.8	6	3	311	40	0.17	1.6	2.0	A
25	15	42	16.0	14	31.5	90	33.1	3.4	1.8	4	2	192	18	0.04	1.5	4.3	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR	25	15	54	50.5	14	36.8	90	34.8	5.5	1.6	4	3	209	20	0.14	1.5	3.1	B
	25	17	4	22.6	14	28.9	90	34.4	1.4	1.7	3	2	194	29	0.05	6.3	18.5	D
	25	18	15	59.8	14	30.5	90	33.6	4.8	2.4	6	1	178	19	0.13	1.4	3.2	B
	25	20	8	20.2	14	38.3	90	21.5	0.3	1.9	4	3	326	51	0.22	1.8	5.2	C
	25	20	38	43.9	14	32.1	90	31.9	3.9	1.7	5	3	212	18	0.15	0.8	2.4	A
	25	20	51	6.3	14	37.0	90	56.5	14.2	2.0	5	3	290	33	0.06	1.7	1.7	A
	25	21	0	23.3	14	48.0	90	42.4	5.9	1.7	5	3	313	42	0.13	1.6	2.5	A
	25	21	7	47.8	14	31.3	90	33.6	3.5	2.2	6	2	184	16	0.17	0.8	2.2	A
	25	21	25	0.5	14	33.4	90	58.6	4.8	1.8	5	3	300	32	0.10	1.1	2.0	A
	25	22	6	14.4	14	30.8	90	34.2	8.1	1.6	5	4	172	19	0.16	0.7	1.2	A
	25	22	41	39.9	14	30.7	90	31.9	5.2	2.4	6	3	206	21	0.22	0.8	1.8	A
	26	0	16	3.7	14	40.6	91	3.6	14.2	2.3	5	2	314	44	0.15	2.8	2.4	B
	26	1	44	25.4	14	30.7	90	33.4	7.5	1.9	6	2	183	19	0.11	0.8	1.5	A
	26	3	8	46.8	14	47.5	90	33.4	7.1	1.9	5	2	316	39	0.10	2.4	2.3	A
	26	3	59	16.8	14	45.5	90	57.1	9.9	2.4	5	2	306	37	0.14	2.5	2.4	B
	26	6	32	32.8	14	45.6	90	22.9	3.6	2.1	5	2	313	41	0.13	1.8	6.6	C
	26	8	36	2.5	14	38.0	90	56.3	10.4	2.0	4	3	290	33	0.14	2.0	1.0	A
	26	9	34	0.7	14	40.2	90	24.4	0.1	2.1	5	2	297	33	0.18	2.2	8.7	C
	26	12	5	13.5	14	31.8	90	59.2	0.6	1.9	4	2	295	41	0.11	1.8	4.5	B
	26	13	30	8.6	14	43.3	90	57.0	11.1	1.9	5	2	301	34	0.25	2.1	1.5	A
	26	13	39	47.5	14	40.3	90	32.1	7.9	2.4	6	2	270	26	0.22	2.1	1.8	A
	26	17	11	52.4	14	38.1	91	3.5	8.5	2.2	5	4	314	42	0.18	1.6	2.0	A
	26	18	47	31.9	14	37.2	90	59.1	9.6	1.7	5	3	301	34	0.13	1.9	1.6	A
	26	19	51	5.1	14	38.5	91	2.3	10.1	2.2	5	3	311	40	0.12	1.4	2.1	A
	27	0	50	48.6	14	33.7	91	1.7	6.8	1.6	4	4	312	38	0.17	1.3	1.8	A
	27	1	17	3.9	14	42.4	90	31.5	4.2	2.3	6	3	289	30	0.08	1.2	2.6	B
	27	4	10	30.4	14	42.0	90	25.6	0.3	2.2	5	3	299	33	0.18	1.7	4.9	B
	27	8	15	29.8	14	34.9	90	44.2	6.2	1.8	6	3	132	14	0.11	0.6	1.0	A
	27	8	23	47.1	14	46.1	90	41.1	6.8	2.6	6	3	290	27	0.10	1.6	1.8	A
	27	8	52	32.1	14	36.4	90	31.0	0.2	1.5	4	3	244	19	0.16	1.4	5.1	C
	27	12	12	44.0	14	43.7	90	43.8	9.1	1.7	5	2	284	33	0.08	1.2	1.7	A
	27	17	16	15.4	14	40.0	90	40.3	4.7	1.5	4	3	234	31	0.15	1.8	2.5	B
	27	23	41	11.7	14	42.4	91	0.2	5.8	2.5	6	2	308	39	0.18	1.9	2.6	B
	28	0	12	33.5	14	31.1	90	33.9	7.7	2.1	5	4	178	18	0.12	0.7	1.2	A
	28	1	3	11.1	14	37.0	90	53.2	1.0	1.8	4	1	273	24	0.02	2.7	2.2	B
	28	3	22	52.3	14	29.2	90	34.5	4.4	1.5	5	2	152	21	0.17	1.0	2.7	B
	28	3	28	42.3	14	30.6	90	34.6	7.6	1.6	4	3	218	25	0.17	1.1	1.4	A
	28	4	29	25.0	14	45.9	90	37.2	7.5	2.0	6	3	290	32	0.15	1.5	1.7	A
	28	4	46	13.1	14	43.1	90	32.8	0.5	1.8	5	3	287	31	0.23	1.3	5.4	C
	28	5	37	37.6	14	44.8	90	57.1	8.0	2.1	5	3	304	35	0.17	2.1	1.9	A
	28	6	23	12.3	14	36.3	90	41.2	6.4	1.9	6	1	131	19	0.12	0.8	1.9	A
	28	9	13	19.3	14	43.8	91	4.0	5.7	2.0	4	2	316	47	0.01	2.5	3.5	B
	28	9	42	44.5	14	48.2	90	55.8	8.8	1.7	4	2	309	41	0.09	2.3	2.8	B
	28	13	6	17.4	14	46.6	90	35.4	5.8	2.1	6	3	294	35	0.08	1.6	2.0	A
	28	16	7	26.2	14	40.7	91	1.5	10.0	1.8	4	4	309	40	0.22	1.3	1.6	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
APR	26	17	7	12.6	14	37.1	90	50.7	3.0	2.2	6	1	264	20	0.05	2.5	2.8	B
	28	19	13	44.6	14	43.4	91	4.6	17.9	1.8	4	1	317	48	0.10	3.3	3.7	B
	28	19	19	35.5	14	43.4	90	34.9	6.6	2.3	6	2	284	32	0.17	2.3	1.7	A
	29	4	9	6.5	14	41.0	90	34.6	3.7	1.5	4	4	274	39	0.17	1.4	1.4	A
	29	4	11	36.9	14	29.1	90	39.4	2.6	1.5	4	3	134	20	0.09	1.1	4.7	B
	29	7	7	23.9	14	41.3	90	34.8	5.8	2.2	6	1	276	28	0.10	2.9	1.7	B
	29	7	9	26.7	14	41.9	90	33.6	4.1	1.5	4	3	285	29	0.03	1.5	1.6	A
	29	9	11	37.3	14	30.0	90	34.4	1.6	2.1	6	1	162	20	0.02	1.2	5.1	C
	29	10	31	2.2	14	33.4	90	55.9	7.6	2.0	5	1	280	27	0.15	2.9	2.0	B
	29	23	23	19.1	14	42.7	90	33.4	5.7	1.9	4	2	293	42	0.09	1.7	2.0	A
	29	23	43	22.8	14	41.4	90	57.5	1.4	2.2	6	1	300	34	0.13	2.7	3.2	B
	30	1	10	0.3	14	43.8	91	0.1	9.0	2.3	6	3	309	40	0.12	2.1	2.2	A
	30	2	11	45.8	14	36.9	90	57.8	5.8	1.6	5	1	296	32	0.04	3.1	2.6	B
	30	3	41	47.9	14	42.1	90	31.7	0.1	2.6	6	1	287	29	0.07	2.8	4.6	B
	30	19	20	5.3	14	37.8	91	1.2	6.3	2.9	6	1	308	38	0.12	3.0	2.9	B
	30	19	31	3.5	14	42.6	90	19.5	0.7	2.2	6	3	313	43	0.19	1.9	5.3	C
	30	22	50	12.6	14	31.8	90	58.7	4.4	1.5	4	3	292	40	0.17	1.5	2.6	B
MAY	1	2	47	49.4	14	35.1	90	33.2	2.1	1.2	4	1	213	17	0.17	1.9	5.2	C
	1	10	2	48.9	14	46.1	90	32.6	7.1	1.1	5	4	314	37	0.20	1.2	1.5	A
	1	19	40	43.2	14	27.7	90	39.5	0.5	1.6	6	3	95	18	0.11	0.6	4.2	B
	1	22	6	13.2	14	45.2	90	43.9	6.7	1.8	6	3	275	24	0.21	1.2	1.8	A
	2	6	49	53.6	14	39.3	90	48.0	7.9	1.6	6	2	222	18	0.21	1.6	2.3	A
	2	10	2	6.9	14	29.3	90	34.7	2.0	1.4	4	4	152	21	0.10	1.1	4.5	B
	3	0	33	17.8	14	35.2	90	42.1	3.1	1.6	6	2	125	17	0.17	0.6	1.5	A
	3	3	8	33.4	14	49.6	90	34.5	8.4	2.6	3	2	332	43	0.20	3.2	3.8	B
	3	8	50	6.4	14	44.6	90	39.9	7.7	1.5	4	2	306	38	0.13	2.4	1.9	A
	3	22	8	24.7	14	29.2	90	26.4	13.3	1.8	4	1	279	33	0.23	2.2	2.2	A
	3	23	47	0.2	14	42.0	90	59.0	1.8	2.1	6	1	304	37	0.08	3.0	3.9	B
	4	9	5	27.4	14	49.6	90	30.5	5.8	2.6	6	1	306	43	0.17	2.0	4.2	B
	4	15	13	30.6	14	43.0	90	41.2	3.1	1.6	5	3	287	34	0.18	1.1	1.9	A
	4	19	31	16.9	14	41.3	90	33.7	11.5	1.4	5	3	277	28	0.16	1.5	1.6	A
	4	20	27	13.8	14	41.9	90	58.5	6.0	1.7	6	2	303	36	0.15	2.5	2.4	A
	5	23	1	14.4	15	9.1	90	30.6	2.4	2.6	5	2	330	72	0.13	5.6	7.0	C
	6	3	15	7.4	14	29.5	90	32.5	6.7	1.7	6	2	190	22	0.42	0.9	1.5	A
	7	4	30	47.3	14	40.3	90	42.4	0.1	3.1	6	0	211	19	0.21	1.9	7.2	C
	7	4	48	31.0	14	48.9	90	42.0	6.7	1.7	6	2	300	31	0.15	2.4	2.3	A
	7	12	17	25.1	14	46.0	90	53.6	9.0	1.6	3	3	345	36	0.10	1.7	2.4	A
	7	22	7	9.7	14	43.9	91	2.7	7.1	2.7	6	0	314	44	0.09	12.6	14.8	D
	8	1	24	55.8	14	35.6	90	41.6	6.8	2.0	6	0	126	18	0.07	0.8	1.8	A
	8	2	33	25.7	14	45.1	90	45.3	10.0	1.7	6	2	274	25	0.21	1.7	2.1	A
	8	2	53	35.7	14	35.6	90	40.7	8.0	1.4	5	2	161	24	0.13	1.1	0.8	A
	8	9	6	47.4	14	48.7	90	50.3	4.7	1.8	6	3	301	35	0.13	2.1	2.5	B
	8	9	41	28.0	14	45.1	90	57.9	11.5	1.8	6	2	307	36	0.14	2.5	2.1	B
	8	12	54	42.3	14	43.3	91	1.5	2.5	1.8	6	2	311	42	0.14	2.6	3.6	B
	8	14	17	46.0	14	38.9	90	30.8	0.1	1.7	6	2	264	23	0.26	3.0	5.4	C

1976	ORIGIN HR	MN	TIME SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 8	1o	19	37.6	14	36.5	90	54.2	2.0	1.2	4	5	278	25	0.47	1.2	1.7	A
8	16	2O	24.3	14	40.1	90	42.9	0.6	1.0	4	2	209	28	0.11	9.7	26.5	D
8	17	3	12.5	14	41.9	91	3.1	9.2	1.4	6	3	314	44	0.21	2.1	2.7	B
8	19	44	42.2	14	46.3	91	4.2	2.0	1.4	5	2	318	48	0.16	2.4	6.6	C
8	23	59	8.0	14	42.6	90	33.2	5.0	1.3	5	2	292	30	0.04	1.8	2.1	A
9	8	3O	30.7	14	33.3	91	0.8	10.3	1.8	5	3	305	36	0.23	1.4	1.7	A
9	8	34	29.4	14	33.7	91	0.8	6.7	1.8	5	3	305	36	0.15	1.4	2.0	A
9	8	45	52.9	14	33.3	91	0.9	9.2	2.2	5	3	305	36	0.23	1.5	2.3	A
9	9	2	49.3	14	32.8	90	57.5	0.0	1.7	6	2	291	30	0.21	2.6	4.1	B
9	9	13	8.4	14	33.6	91	0.3	8.9	1.7	6	3	304	35	0.22	1.3	1.6	A
9	9	16	43.9	14	41.3	90	32.7	9.2	1.7	5	3	282	36	0.22	1.3	2.3	A
9	15	7	15.1	14	38.1	91	4.0	8.9	1.6	6	3	314	43	0.13	1.5	2.2	A
9	15	10	11.8	14	33.4	90	59.8	4.0	2.3	6	3	303	34	0.17	1.4	2.6	B
9	20	8	44.7	14	49.0	90	54.9	7.2	1.7	5	3	310	40	0.09	1.9	3.0	B
9	20	34	52.3	14	34.8	90	59.5	6.8	1.8	5	2	303	34	0.09	2.1	2.3	A
9	21	9	0.3	14	19.8	90	25.5	2.3	1.7	4	3	306	36	0.18	1.8	3.7	B
10	1	46	48.8	14	43.9	91	4.3	11.7	2.3	6	1	317	47	0.13	2.7	2.6	B
10	3	27	30.7	14	48.2	90	37.8	7.8	1.9	6	3	297	34	0.16	1.5	2.0	A
10	3	32	18.8	14	39.4	91	4.0	7.9	2.2	6	3	315	43	0.15	1.9	2.4	A
10	7	48	52.2	14	34.3	91	2.2	0.3	2.1	5	3	308	44	0.30	2.4	3.5	B
10	13	0	32.3	14	37.1	91	1.6	0.3	2.1	6	2	309	38	0.17	1.6	4.5	B
10	22	31	40.6	14	38.9	91	1.0	4.9	1.9	6	3	307	38	0.12	1.3	2.5	A
10	22	4O	4.9	14	39.3	91	2.0	5.4	2.4	6	3	310	40	0.17	2.0	2.3	A
11	1	3O	24.1	14	45.4	91	2.3	16.0	1.4	5	3	315	44	0.12	1.4	2.4	A
11	2	16	17.2	14	44.1	91	2.3	14.0	1.3	5	3	314	44	0.26	1.4	2.4	A
11	7	51	0.1	14	43.2	91	0.7	8.6	1.7	6	3	310	41	0.12	1.3	2.4	A
11	13	27	40.6	14	37.0	90	51.0	1.2	1.3	6	2	230	20	0.20	2.6	3.6	B
11	17	41	45.2	14	36.1	90	57.8	9.6	2.4	6	2	296	31	0.18	1.8	1.7	A
11	22	3	55.1	14	36.8	91	4.4	3.7	1.5	6	3	314	43	0.20	1.5	3.9	B
12	3	56	1.5	14	30.7	90	34.3	2.5	1.4	4	4	170	19	0.17	0.8	2.5	A
12	5	19	29.5	14	31.5	90	32.3	8.8	1.1	4	4	205	19	0.23	0.8	1.7	A
12	6	32	40.9	14	31.2	90	33.6	8.0	1.3	5	4	183	18	0.22	0.7	1.5	A
12	10	3	11.5	14	37.4	90	56.9	8.9	1.5	6	3	292	30	0.14	1.2	1.5	A
12	15	6	0.3	14	37.2	91	4.8	7.4	1.7	5	3	315	48	0.16	1.7	3.3	B
12	15	38	28.8	14	38.9	91	7.6	1.3	2.1	6	3	319	50	0.15	2.3	4.1	B
12	17	23	3.2	14	47.4	90	43.8	8.5	1.8	6	2	291	28	0.09	1.8	2.2	A
12	19	1	27.2	14	31.0	90	34.6	3.5	2.0	6	0	168	18	0.04	1.2	3.5	B
12	22	54	41.9	14	44.3	91	1.5	8.5	2.0	6	3	312	43	0.18	1.2	2.8	B
13	5	33	15.9	14	40.7	90	33.3	0.0	2.0	6	2	271	27	0.17	2.5	4.8	B
13	6	57	0.5	14	41.6	90	34.7	3.9	1.6	6	2	278	29	0.13	2.0	1.9	A
13	7	3O	31.8	14	30.8	90	33.1	9.6	1.3	4	3	188	19	0.14	0.8	1.2	A
13	9	44	18.3	14	32.3	90	31.7	0.3	1.7	5	2	216	18	0.10	2.1	6.7	C
13	11	41	51.3	14	30.7	90	35.6	2.4	2.5	6	1	153	18	0.21	0.9	3.9	B
13	13	8	42.0	14	30.8	90	34.2	4.3	1.5	5	3	172	19	0.07	0.7	2.1	A
13	13	41	23.8	14	31.1	90	34.0	4.6	1.5	5	4	176	18	0.12	0.7	1.6	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 13	14	56	2.2	14	30.4	90	35.8	2.3	1.7	3	3	272	24	0.18	1.1	4.0	B
13	15	40	1.3	14	30.0	90	33.9	4.4	1.6	4	3	217	25	0.11	1.3	2.7	B
13	15	40	23.8	14	30.9	90	32.8	9.2	2.3	6	0	193	19	0.10	1.9	2.6	B
13	18	38	7.7	14	30.3	90	34.7	4.1	2.1	5	2	161	19	0.09	1.0	3.4	B
13	18	39	32.0	14	30.0	90	34.9	5.3	1.7	6	2	155	19	0.19	0.9	2.9	B
13	18	59	34.2	14	30.2	90	33.9	6.1	1.5	4	2	221	26	0.10	1.2	2.2	A
13	19	3	28.4	14	35.4	90	32.8	3.7	2.0	6	1	221	17	0.13	2.0	3.3	B
13	20	50	2.8	14	49.1	90	38.5	10.4	1.5	5	3	316	44	0.13	1.6	2.0	A
13	21	15	21.6	14	30.9	90	32.5	9.0	1.7	3	4	247	20	0.21	1.4	2.0	A
13	21	17	9.8	14	30.8	90	33.3	5.3	2.3	6	0	185	19	0.02	1.6	3.1	B
13	21	24	49.0	14	30.8	90	34.3	6.4	2.4	6	0	169	18	0.07	1.3	2.7	B
13	22	7	10.0	14	30.7	90	34.2	6.4	1.6	5	3	171	19	0.10	1.0	2.3	A
13	23	3	25.6	14	30.0	90	33.6	7.3	1.4	5	3	175	20	0.15	0.7	1.6	A
13	23	17	29.2	14	29.1	90	34.9	1.4	1.3	5	3	147	21	0.28	0.9	4.1	B
14	0	48	33.9	14	43.7	91	4.5	7.3	1.7	5	4	317	47	0.13	1.4	3.0	B
14	2	19	33.9	14	30.6	90	34.3	3.5	2.0	6	2	168	19	0.09	1.2	3.6	B
14	4	24	53.6	14	36.4	90	35.2	2.6	1.4	4	3	237	20	0.20	1.5	3.8	B
14	7	2	55.1	14	31.3	90	38.4	7.4	1.3	4	4	126	16	0.13	0.6	1.0	A
14	7	3	9.0	14	31.5	90	38.5	6.6	1.2	5	4	125	16	0.13	0.6	0.9	A
14	7	10	7.9	14	30.5	90	35.3	0.0	1.8	6	2	155	18	0.08	1.0	6.4	C
14	8	22	0.1	14	30.4	90	34.3	2.9	1.8	6	3	168	19	0.12	0.7	2.4	A
14	9	43	4.0	14	30.1	90	33.3	11.4	1.4	4	3	180	20	0.24	1.3	2.0	A
14	15	3	28.5	14	48.8	90	46.3	15.5	1.9	5	3	297	41	0.28	1.4	1.5	A
14	15	26	32.3	14	30.5	90	35.3	4.3	2.4	6	0	156	18	0.10	1.1	3.1	B
14	18	57	28.9	14	24.4	90	28.9	5.1	2.7	5	1	273	26	0.17	3.5	1.6	B
14	19	0	21.3	14	24.1	90	28.9	4.8	2.2	5	1	273	26	0.20	3.6	1.6	B
14	22	47	14.1	14	29.8	90	34.7	5.6	1.5	4	3	206	24	0.12	1.2	1.8	A
14	23	4	1.6	14	30.3	90	34.2	4.5	1.5	5	4	169	19	0.13	0.6	1.9	A
14	23	49	50.2	14	30.7	90	34.2	6.0	1.6	4	5	171	19	0.10	0.6	1.4	A
14	23	50	60.0	14	31.0	90	34.6	4.7	2.1	6	2	167	18	0.05	0.9	3.0	B
14	23	54	54.5	14	30.6	90	33.3	5.6	2.1	6	1	184	19	0.15	1.6	3.0	B
15	0	50	57.9	14	30.6	90	33.8	5.4	1.6	5	3	176	19	0.16	0.7	1.9	A
15	1	1	39.6	14	30.9	90	34.0	8.8	1.3	5	4	176	18	0.14	0.7	1.1	A
15	1	45	54.3	14	41.5	90	22.4	0.6	1.7	6	2	305	37	0.14	2.0	7.7	C
15	3	57	57.6	14	38.2	91	5.7	6.3	1.9	6	3	317	46	0.07	2.3	2.5	A
15	6	28	18.8	14	41.1	90	33.7	5.5	1.3	5	3	276	28	0.17	1.1	1.9	A
15	6	41	6.2	14	43.6	90	42.0	5.4	2.8	6	0	265	23	0.11	4.1	2.4	B
15	7	58	55.2	14	30.6	90	35.2	3.4	2.6	6	0	156	18	0.13	1.1	3.4	B
15	12	56	37.1	14	35.2	90	53.6	0.7	3.4	6	0	272	23	0.23	5.2	3.3	C
15	13	0	35.2	14	36.4	90	59.3	11.7	2.0	5	2	302	34	0.14	2.0	2.0	A
15	13	1	16.7	14	34.5	90	57.8	0.1	1.8	5	2	297	31	0.13	2.8	4.0	B
15	13	2	26.9	14	36.4	90	55.7	5.5	1.8	6	2	286	28	0.12	1.9	1.6	A
15	13	17	55.7	14	37.8	90	57.4	5.3	1.9	6	2	295	31	0.09	2.0	1.8	A
15	14	43	33.6	14	37.9	90	55.5	6.0	1.6	5	2	287	28	0.15	1.8	1.2	A
15	14	58	21.7	14	30.4	90	33.7	6.6	1.9	6	1	177	20	0.13	1.3	2.8	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 15	14	58	43.2	14	30.6	90	33.9	8.7	2.1	6	1	174	19	0.08	1.3	2.5	B
15	15	17	17.7	14	39.0	90	58.6	3.7	1.6	5	1	300	37	0.10	2.5	5.0	B
15	17	15	42.3	14	38.3	90	54.3	4.9	1.7	5	3	282	27	0.59	1.8	1.1	A
15	17	48	42.5	14	47.1	90	42.4	8.0	1.5	6	3	292	27	0.18	1.6	2.1	A
15	18	23	40.5	14	36.5	90	55.0	7.9	2.4	6	1	282	27	0.18	2.6	1.5	B
15	19	37	8.1	14	39.0	91	3.8	6.9	2.3	6	2	314	43	0.13	1.9	2.7	B
16	2	46	18.6	14	30.0	90	33.8	9.8	1.6	4	3	171	20	0.12	1.1	2.2	A
16	3	27	26.0	14	38.6	91	2.1	3.2	2.7	6	2	310	40	0.11	1.7	3.2	B
16	3	38	6.3	14	42.0	91	4.2	9.9	1.8	5	2	316	46	0.10	1.8	3.6	B
16	4	9	2.3	14	36.9	90	56.8	9.2	1.5	4	4	292	30	0.15	1.3	1.0	A
16	5	53	12.5	14	40.3	90	30.3	0.5	2.4	6	3	276	26	0.18	1.4	3.5	B
16	6	9	55.4	14	34.2	90	59.3	7.9	1.8	5	4	302	33	0.23	1.1	1.7	A
16	7	8	30.5	14	42.3	90	42.2	8.8	2.4	6	1	247	21	0.09	2.7	1.7	B
16	9	24	29.9	14	41.2	90	31.8	0.0	1.7	5	3	279	28	0.19	2.6	4.7	B
16	12	0	13.6	14	26.9	90	36.7	0.9	1.5	5	2	109	18	0.31	0.8	7.0	C
16	12	1	2.6	14	30.9	90	33.7	9.4	2.2	4	2	180	19	0.18	0.8	1.8	A
16	13	46	23.1	14	29.2	90	34.5	3.6	1.3	4	2	153	21	0.18	0.9	2.5	A
16	15	51	58.5	14	47.1	91	1.6	7.3	1.8	5	2	315	44	0.09	2.2	3.9	B
16	20	42	20.3	14	40.8	91	1.0	23.8	2.3	5	3	313	39	0.16	2.2	1.5	A
16	22	25	16.3	14	39.2	91	1.5	8.4	2.2	6	3	309	39	0.21	1.5	2.1	A
17	5	57	54.2	14	31.8	90	37.0	7.2	1.5	5	1	144	15	0.19	0.8	1.3	A
17	11	56	20.6	14	38.0	91	0.5	8.1	1.6	4	3	306	37	0.26	1.7	2.2	A
17	12	40	25.1	14	38.9	90	55.0	4.1	1.7	5	3	286	28	0.23	1.8	1.4	A
17	13	40	15.4	14	37.8	90	55.7	4.9	1.7	5	2	288	28	0.12	1.7	1.4	A
17	13	55	17.6	14	41.8	90	39.9	0.6	1.8	5	2	256	24	0.15	3.3	4.2	B
17	16	37	47.3	14	41.9	91	2.0	7.4	1.6	6	3	311	42	0.20	1.5	2.6	B
17	18	35	18.6	14	50.8	90	52.2	10.4	1.7	4	3	310	40	0.14	1.9	2.7	B
17	19	1	32.3	14	31.0	90	33.0	10.1	2.6	6	0	192	19	0.06	1.9	2.6	B
17	19	20	57.6	14	35.5	90	40.6	7.3	2.1	6	2	116	20	0.14	0.8	1.7	A
17	20	7	42.6	14	37.2	90	57.1	4.7	1.5	5	2	293	31	0.10	2.1	2.0	A
17	20	31	54.2	14	37.8	90	44.4	0.6	1.7	6	0	177	13	0.28	1.3	6.2	C
17	20	41	55.1	14	29.8	90	34.4	0.8	1.3	5	4	159	20	0.18	0.8	3.5	B
17	20	54	58.7	14	30.5	91	3.0	11.0	1.6	5	2	305	40	0.20	1.5	2.8	B
18	1	29	34.2	14	45.8	90	47.7	12.0	1.4	5	3	282	28	0.16	1.9	1.6	A
18	2	37	13.6	14	36.6	90	55.7	6.1	1.7	6	3	286	28	0.29	1.2	1.5	A
18	3	31	0.6	14	30.5	90	33.6	4.6	2.1	6	2	178	19	0.11	1.4	3.2	B
18	7	26	47.6	14	31.0	90	33.5	5.5	2.8	6	0	184	19	0.11	1.6	3.0	B
18	7	31	32.5	14	30.3	90	34.2	13.5	1.3	3	5	167	19	0.12	0.7	1.2	A
18	7	56	25.5	14	29.3	90	39.3	1.1	1.0	5	4	106	20	0.14	0.7	4.3	B
18	10	19	29.6	14	46.6	90	36.5	6.8	1.6	6	3	293	34	0.21	1.5	1.8	A
18	11	32	18.1	14	31.1	90	34.3	5.2	2.0	6	1	172	18	0.09	1.2	2.9	B
18	11	46	4.7	14	37.4	90	47.5	8.8	1.5	4	1	272	36	0.08	3.7	3.4	B
18	11	53	27.6	14	27.5	90	18.4	2.0	2.1	5	3	304	42	0.11	1.7	4.5	B
18	16	46	52.2	14	30.6	90	35.1	0.0	1.5	5	1	158	18	0.10	1.2	7.4	C
18	19	16	35.0	14	29.0	90	34.0	6.1	1.5	5	2	158	22	0.04	1.2	3.0	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 18	22	1	18.7	14	41.4	90	28.2	8.4	1.9	6	3	289	28	0.19	1.2	2.2	A
18	22	24	28.8	14	30.3	90	34.6	0.7	1.8	6	2	163	19	0.22	0.9	4.9	B
18	22	37	58.6	14	27.9	90	32.9	11.7	1.6	6	3	161	23	0.22	0.9	0.9	A
19	0	45	5.6	14	39.8	90	33.2	3.4	1.2	5	3	260	25	0.21	1.1	2.3	A
19	11	7	41.6	14	42.9	90	59.9	0.6	2.2	6	2	308	39	0.19	2.6	3.2	B
20	8	23	4.2	14	41.6	90	30.4	4.2	1.5	5	2	285	28	0.17	2.2	2.9	B
20	8	52	43.1	14	30.4	90	33.5	9.3	1.2	5	3	179	20	0.18	1.1	1.9	A
20	8	56	40.8	14	30.6	90	32.8	9.1	1.8	6	1	191	20	0.18	1.6	2.5	B
20	10	0	32.7	14	40.5	90	33.3	0.1	2.2	6	0	268	26	0.06	4.2	6.8	C
20	12	1	3.0	14	36.0	90	56.2	14.3	1.5	5	2	289	33	0.20	2.4	1.7	A
20	12	15	53.3	14	36.1	90	41.5	5.3	1.8	6	2	132	18	0.13	0.7	1.9	A
20	13	20	49.3	14	45.7	90	44.1	4.0	1.9	6	3	279	25	0.21	1.1	2.5	A
20	16	24	47.7	14	47.4	90	43.1	14.4	1.5	6	3	292	28	0.18	1.5	1.9	A
20	16	25	0.1	14	47.3	90	43.3	9.3	2.0	5	2	308	40	0.07	2.2	2.3	A
20	22	40	25.2	14	46.2	90	59.3	10.4	2.0	5	3	311	39	0.23	2.2	2.1	A
20	22	49	50.5	14	41.9	91	2.4	13.6	2.1	5	3	312	43	0.06	1.7	1.9	A
21	1	38	11.4	14	40.7	91	2.4	9.7	2.2	6	3	312	42	0.21	2.0	2.4	A
21	2	42	58.7	14	37.0	90	55.3	7.1	2.3	6	3	285	27	0.27	1.2	1.4	A
21	5	47	59.2	14	37.4	90	55.5	8.3	1.8	6	3	286	28	0.19	1.9	0.9	A
21	6	51	22.8	14	41.8	91	2.2	6.9	1.8	5	4	312	42	0.14	1.1	2.1	A
21	8	6	41.9	14	32.3	90	59.8	5.4	1.8	5	3	299	34	0.15	1.4	2.0	A
21	18	29	30.5	14	38.5	91	2.7	12.8	2.3	6	2	312	41	0.31	2.7	2.2	B
22	4	46	46.7	14	45.1	90	58.8	0.2	1.9	5	2	308	38	0.14	2.0	5.8	C
22	5	3	7.2	14	39.2	90	43.9	7.2	2.0	6	1	196	15	0.29	1.5	2.6	B
22	5	3	20.4	14	42.7	90	43.3	12.4	2.0	5	3	250	20	0.15	1.0	1.5	A
22	5	19	44.4	14	34.8	90	42.3	9.1	1.5	3	5	173	17	0.22	0.5	0.9	A
22	5	42	26.8	14	40.7	90	44.9	7.6	1.9	6	3	223	17	0.15	1.5	2.0	A
22	8	13	5.3	14	45.3	90	57.8	10.6	2.7	6	2	307	37	0.06	1.5	2.2	A
22	10	12	56.2	14	40.8	90	45.7	0.8	1.6	5	3	227	18	0.19	1.1	3.8	B
22	21	13	18.4	14	36.7	90	54.9	7.5	2.3	6	1	282	26	0.07	2.6	1.5	B
22	22	45	20.4	14	36.7	91	0.0	5.0	2.3	6	1	304	35	0.08	2.6	3.7	B
23	3	36	20.5	14	42.5	90	42.7	11.9	2.6	6	2	248	20	0.15	1.1	1.3	A
23	6	33	32.2	14	35.1	90	59.2	14.4	2.3	6	3	302	33	0.16	1.4	1.3	A
23	7	6	36.8	14	30.6	90	34.2	4.6	2.3	6	1	170	19	0.06	1.2	3.2	B
23	7	30	9.5	14	30.6	90	33.9	7.6	2.0	5	2	174	19	0.07	0.8	1.6	A
23	10	14	23.0	14	46.8	90	31.3	3.8	2.1	6	3	300	38	0.13	1.3	3.1	B
23	13	44	32.2	14	44.4	91	3.3	10.9	1.9	6	3	316	46	0.17	2.3	2.6	B
24	18	13	35.9	14	44.6	91	0.2	8.5	1.8	6	2	310	40	0.15	1.4	3.4	B
25	0	31	51.9	14	44.5	91	0.8	12.2	2.3	5	4	311	41	0.23	1.3	1.8	A
25	0	52	57.9	14	31.2	90	33.8	3.7	1.8	5	4	180	18	0.16	1.2	3.2	B
25	3	32	13.7	14	30.8	90	34.7	8.9	1.8	5	4	164	18	0.13	0.7	1.1	A
25	6	4	20.7	14	30.2	90	34.0	4.6	2.2	6	2	171	20	0.15	1.1	3.2	B
25	7	20	40.7	14	48.6	90	59.5	15.4	1.9	4	2	315	45	0.22	2.9	5.3	C
25	9	50	18.9	14	30.7	90	34.7	2.3	1.6	5	4	163	18	0.14	1.0	4.0	B
25	10	36	13.3	14	44.6	91	2.9	0.1	2.2	6	3	315	45	0.16	1.4	4.8	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 25	11	32	3.6	14	30.3	90	34.3	2.7	2.2	6	3	166	19	0.16	1.1	3.8	B
25	12	32	34.8	14	50.8	90	42.8	7.9	2.6	6	2	306	34	0.11	2.5	2.5	A
25	21	9	12.4	14	42.6	90	34.0	5.9	1.6	5	4	293	30	0.14	1.1	1.8	A
26	1	23	51.5	14	44.9	91	1.6	8.7	2.6	6	3	313	43	0.26	1.8	2.2	A
26	5	6	11.7	14	44.0	90	21.9	3.4	1.7	5	4	311	40	0.06	1.2	3.9	B
26	7	3	48.5	14	30.7	90	33.9	5.4	1.4	4	5	176	19	0.15	0.6	1.5	A
26	7	52	5.1	14	33.4	90	40.0	9.4	1.2	3	5	254	20	0.81	0.5	0.8	A
26	10	47	34.7	14	52.9	90	38.2	6.9	2.4	6	1	309	40	0.18	2.6	6.0	C
26	17	7	51.1	14	31.2	90	34.7	4.5	1.6	5	2	168	17	0.15	0.9	3.2	B
26	17	33	13.5	14	31.6	90	33.8	4.7	1.7	4	2	183	17	0.17	1.3	3.9	B
26	18	56	51.6	14	40.1	90	48.9	8.4	1.9	5	3	240	20	0.17	1.5	1.6	A
26	19	12	32.8	14	37.7	90	40.8	3.0	1.9	6	1	149	20	0.19	0.8	1.9	A
26	23	22	28.9	14	30.4	90	34.3	8.4	2.1	4	4	167	19	0.18	0.6	1.5	A
27	0	14	36.2	14	30.6	90	33.3	7.8	2.1	5	2	183	19	0.19	1.1	2.8	B
27	3	9	52.7	14	30.5	90	34.0	3.7	1.7	5	4	173	19	0.11	1.1	3.3	B
27	4	34	13.1	14	30.3	90	34.6	3.8	1.7	4	4	215	25	0.10	1.3	2.4	A
27	8	15	35.8	14	41.8	90	33.8	6.4	2.7	6	3	281	29	0.10	1.5	1.7	A
28	2	59	21.9	14	51.7	90	18.4	0.5	2.4	5	4	323	54	0.21	3.2	5.5	C
28	3	26	14.2	14	38.6	90	33.3	7.8	1.8	4	3	245	23	0.10	1.0	1.7	A
28	4	31	47.9	14	31.3	90	37.5	6.2	2.1	6	2	135	16	0.29	0.7	1.9	A
28	7	24	45.6	14	38.4	91	2.0	4.3	2.7	6	2	310	40	0.09	1.9	3.3	B
28	7	29	5.1	14	38.7	91	5.4	3.5	2.3	6	3	316	46	0.18	1.5	3.2	B
28	15	5	51.2	14	46.2	90	50.1	1.2	1.9	5	2	290	36	0.07	2.2	3.7	B
28	15	40	46.5	14	55.5	90	50.5	13.9	2.2	6	2	319	46	0.09	2.7	2.9	B
28	16	7	35.7	14	30.2	90	32.9	12.7	2.0	4	1	187	21	0.15	1.6	3.0	B
28	23	11	57.9	14	37.5	90	47.3	12.0	1.7	5	3	187	17	0.14	1.1	1.8	A
28	23	19	51.7	14	44.3	90	29.8	10.2	2.3	5	3	297	33	0.16	1.4	2.1	A
29	1	10	25.5	14	42.7	90	29.5	0.2	1.8	4	3	334	42	0.14	2.7	3.4	B
29	7	32	49.5	14	41.4	90	33.0	4.5	1.5	4	3	279	35	0.27	1.4	1.5	A
29	11	31	14.3	14	28.9	90	36.0	6.7	2.1	4	1	173	21	0.25	1.0	2.9	B
29	17	18	29.6	14	47.6	90	31.8	10.5	1.8	4	2	318	39	0.30	2.0	2.4	A
29	18	29	29.3	14	38.1	91	4.1	0.8	1.8	5	1	315	43	0.15	3.0	7.0	C
30	0	50	34.3	14	40.0	90	28.3	0.1	2.3	4	2	282	43	0.08	3.2	6.1	C
30	1	54	1.5	14	29.1	90	34.2	11.1	1.8	5	1	156	21	0.34	1.2	2.6	B
30	3	56	21.9	14	44.1	91	2.1	6.6	2.7	4	3	313	43	0.08	1.6	3.1	B
30	4	0	49.9	14	35.4	90	41.3	5.6	1.8	5	2	122	18	0.09	0.6	1.8	A
30	10	34	25.2	14	35.7	90	50.3	1.2	1.8	5	2	161	18	0.19	2.4	6.2	C
30	11	0	21.8	14	38.2	90	26.9	0.1	2.1	5	2	281	27	0.20	1.9	8.3	C
30	11	51	18.7	14	31.0	90	34.2	4.3	2.4	5	1	174	18	0.11	1.3	3.5	B
30	15	17	0.1	14	36.0	90	42.4	6.1	1.7	4	2	224	22	0.11	1.1	2.1	A
30	18	30	34.4	14	43.5	90	21.5	14.4	3.0	3	2	330	40	0.24	5.1	3.4	C
30	19	2	34.1	14	32.0	90	23.0	29.7	2.8	4	1	296	50	0.00	2.5	2.6	B
30	19	50	26.2	14	37.9	90	51.7	5.5	1.7	4	2	263	22	0.03	2.0	2.2	A
30	20	16	11.8	14	46.9	90	22.3	0.8	1.7	5	4	315	43	0.10	1.6	4.6	B
30	22	6	33.3	14	30.0	90	34.4	10.6	2.2	4	2	212	29	0.09	1.5	1.4	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
MAY 30	22	48	35.7	14	49.0	90	41.2	0.0	1.8	4	2	315	44	0.14	2.9	4.5	B
31	1	16	29.8	14	31.2	90	34.8	3.7	2.2	5	1	168	17	0.08	1.1	3.5	B
31	3	54	54.7	14	33.8	90	50.1	7.9	2.1	5	2	140	17	0.10	1.8	2.2	A
31	4	41	17.5	14	43.5	91	2.8	3.8	2.4	5	1	314	44	0.06	2.6	5.0	B
31	11	24	29.3	14	31.1	90	34.5	4.0	1.4	4	1	170	18	0.05	1.3	3.8	B
31	12	23	1.2	14	46.1	90	31.4	5.4	2.1	5	3	298	37	0.11	1.2	2.1	A
31	19	31	27.1	14	41.7	90	33.4	7.0	1.9	5	2	281	29	0.26	1.7	1.9	A
31	19	32	28.6	14	46.8	90	31.3	3.7	1.7	5	3	300	38	0.20	1.1	2.5	A
31	23	41	19.3	14	29.9	90	34.9	1.6	1.7	5	4	154	20	0.12	0.8	3.4	B
JUN 1	3	22	38.2	14	35.3	90	42.2	5.5	1.6	6	3	127	17	0.17	0.6	1.8	A
1	3	51	21.9	14	34.8	90	41.9	5.0	1.5	6	3	119	18	0.10	0.6	1.6	A
1	7	44	40.6	14	42.2	90	31.9	6.6	2.6	6	2	287	29	0.18	1.3	2.2	A
3	10	44	15.4	14	27.2	90	36.6	7.6	1.4	4	4	140	18	0.21	0.7	2.0	A
3	13	30	37.7	14	27.8	90	35.7	0.7	1.6	4	3	121	20	0.15	0.9	7.1	C
3	13	59	59.2	14	35.5	90	35.4	7.0	2.3	6	3	188	19	0.13	0.7	1.2	A
4	0	9	31.2	14	36.1	90	43.2	15.4	1.3	5	3	143	15	0.06	0.9	1.0	A
4	14	28	6.8	14	35.0	90	46.8	8.4	1.6	5	2	141	18	0.04	1.1	2.2	A
4	16	32	37.2	14	35.3	90	58.1	0.2	1.8	5	3	298	31	0.22	1.7	3.3	B
5	23	51	15.4	13	44.7	90	34.5	0.7	3.0	6	0	335	83	0.09	14.0	74.8	D
6	24	16	52.2	14	11.0	91	15.7	12.6	3.0	5	0	326	64	0.22	30.0	75.7	D
7	3	38	5.1	14	33.6	91	0.5	11.7	1.8	5	3	305	35	0.22	1.4	1.6	A
7	3	40	1.4	14	35.7	90	42.0	7.1	2.0	5	2	130	17	0.04	0.7	1.0	A
7	4	17	28.7	14	41.3	91	0.8	6.9	3.0	6	3	308	39	0.27	2.0	2.1	A
7	5	4	1.5	14	30.3	90	34.7	6.5	1.9	6	2	160	19	0.10	0.7	1.5	A
7	7	50	14.8	14	45.1	90	26.8	0.2	2.9	6	3	305	36	0.16	1.7	4.7	B
7	21	59	47.9	14	31.0	90	38.2	7.3	2.1	6	3	126	17	0.22	0.6	1.8	A
8	5	39	55.1	14	40.5	90	37.4	4.4	2.5	5	1	267	27	0.08	1.8	1.5	A
8	9	43	46.5	14	38.6	90	32.0	5.6	1.5	4	5	253	23	0.14	1.0	1.6	A
8	10	26	42.8	14	44.1	90	32.3	9.1	1.9	6	4	291	33	0.15	1.1	1.7	A
8	20	53	5.9	14	31.3	90	38.6	13.5	2.0	6	2	124	16	0.16	0.6	1.9	A
9	1	45	39.3	14	42.3	90	46.0	9.0	1.5	6	3	248	21	0.19	0.9	1.6	A
9	2	45	43.4	14	34.9	90	35.5	11.7	1.4	5	4	182	18	0.21	0.7	1.0	A
10	7	29	48.6	14	30.8	90	38.6	3.2	1.9	4	3	180	23	0.15	1.3	3.6	B
10	19	6	23.2	14	22.3	90	31.2	1.9	3.0	6	1	250	25	0.13	3.8	4.1	B
10	20	26	54.9	14	41.0	90	42.6	5.5	2.1	6	1	224	19	0.15	2.3	2.3	A
10	20	51	16.6	14	32.1	90	33.2	7.1	2.7	6	1	194	17	0.20	1.7	2.6	B
10	21	3	59.0	14	31.3	90	34.5	4.4	2.1	6	3	172	17	0.26	1.0	3.1	B
10	21	51	22.3	14	21.9	90	33.7	10.8	2.5	4	1	257	31	0.22	2.5	6.2	C
11	5	51	13.5	14	31.4	90	33.7	5.6	2.0	6	3	183	18	0.16	0.7	1.6	A
11	9	22	46.0	14	30.8	90	37.7	0.9	2.5	4	2	198	24	0.12	1.6	13.8	D
11	17	19	23.3	14	48.7	90	35.8	7.9	2.4	6	3	299	37	0.24	1.8	2.0	A
13	0	4	27.9	14	43.8	91	2.1	13.0	2.0	6	2	313	43	0.16	2.8	2.3	B
13	22	27	20.3	14	33.6	90	32.0	4.3	2.1	5	2	218	16	0.10	1.7	3.8	B
13	22	31	54.9	14	48.9	90	35.6	8.2	2.1	6	3	300	38	0.11	1.8	1.7	A
14	13	35	32.0	14	42.4	90	41.3	6.7	2.7	6	0	252	22	0.06	3.4	2.1	B

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
JUN 14	15	48	26.5	14	35.0	90	41.4	8.4	1.7	6	2	117	18	0.09	0.7	1.6	A
15	4	0	52.8	14	49.3	90	51.4	11.2	1.8	5	3	305	37	0.12	1.3	2.5	A
15	11	25	47.0	14	29.8	90	34.2	8.4	1.9	5	4	164	20	0.24	0.7	1.2	A
15	15	19	59.5	14	3.5	90	27.6	7.9	3.3	6	0	325	58	0.20	15.6	27.1	D
15	19	46	9.7	14	38.8	91	0.5	2.5	2.4	5	2	328	37	0.14	1.5	3.8	B
15	23	28	49.2	14	41.3	90	45.6	1.3	2.2	6	2	233	19	0.06	2.1	4.6	B
16	1	57	17.5	14	31.2	90	37.9	5.8	1.8	6	3	130	16	0.20	0.6	1.8	A
16	3	59	30.4	14	45.5	91	6.4	8.3	2.2	5	2	321	52	0.10	2.6	5.5	C
16	8	23	2.3	14	47.7	90	37.2	12.4	1.6	5	4	296	34	0.23	1.2	1.2	A
16	11	52	32.8	14	35.1	90	48.0	13.7	1.5	3	4	227	20	0.09	1.0	1.4	A
16	15	0	27.1	14	30.1	90	38.8	13.1	1.3	4	3	233	22	0.13	0.8	1.9	A
16	15	38	43.4	14	5.9	91	25.4	5.9	3.4	5	0	339	94	0.04	12.6	98.4	D
16	21	54	15.4	14	35.4	90	44.5	7.5	2.2	6	3	141	14	0.14	0.8	2.0	A
16	23	8	35.0	14	34.2	90	57.8	2.1	1.7	6	2	297	31	0.08	2.3	2.9	B
17	9	6	26.8	14	37.7	90	56.2	7.3	1.8	6	3	290	29	0.15	1.2	1.5	A
18	7	18	18.8	13	39.9	90	25.7	0.8	3.2	5	0	340	97	0.14	28.0	95.2	D
18	18	36	44.9	14	21.5	90	25.6	5.2	2.7	6	1	292	34	0.18	3.2	2.5	B
19	4	14	16.8	14	15.4	91	19.1	24.7	3.7	6	0	327	69	0.17	35.6	44.2	D
19	7	31	24.7	14	20.9	90	23.0	4.3	2.8	5	2	299	38	0.12	1.9	3.3	B
19	8	33	38.5	14	43.1	91	0.0	3.6	1.6	6	1	308	40	0.06	2.7	4.5	B
19	10	45	33.9	14	27.7	90	44.0	0.3	1.7	5	3	99	18	0.13	0.6	4.5	B
19	13	10	14.5	14	43.5	90	42.6	12.6	1.5	5	2	285	34	0.23	2.6	1.4	B
19	20	19	22.1	14	31.4	90	45.4	9.2	1.6	2	3	187	25	0.19	1.5	3.7	B
19	20	56	6.6	14	35.1	90	48.3	8.4	1.7	4	3	144	16	0.15	1.2	2.6	B
19	23	32	13.3	14	46.9	90	31.3	5.2	1.6	6	3	300	38	0.21	1.4	2.7	B
20	1	21	55.2	14	26.8	90	16.4	1.6	2.6	6	3	308	46	0.08	1.9	4.9	B
20	1	25	19.9	14	26.8	90	19.0	3.6	2.6	6	3	303	42	0.19	1.6	3.4	B
20	3	55	24.7	14	34.8	90	57.4	8.4	1.9	5	4	295	36	0.17	1.2	0.9	A
20	9	22	26.7	14	43.7	90	41.0	12.3	1.9	4	2	271	35	0.11	2.9	2.6	B
20	10	10	55.9	14	46.0	90	56.8	0.5	2.2	4	1	314	38	0.12	3.6	10.3	D
21	7	58	23.6	14	42.3	90	59.5	9.9	2.1	6	2	306	38	0.09	2.6	2.1	B
21	8	42	6.9	14	44.9	90	56.4	8.5	1.8	6	2	303	35	0.21	2.1	1.9	A
21	14	26	1.6	14	48.0	90	49.8	7.7	1.7	5	4	297	39	0.16	1.9	2.1	A
21	17	57	49.4	14	38.9	90	57.4	10.1	2.2	6	3	296	32	0.19	1.4	1.5	A
21	21	19	32.8	14	54.5	90	38.9	8.5	2.6	6	0	312	42	0.23	12.5	13.4	D
22	0	22	1.8	14	36.9	91	3.2	1.1	2.8	6	2	312	41	0.18	2.2	3.6	B
22	1	9	41.7	14	38.6	90	45.1	5.8	2.5	6	2	192	14	0.15	1.4	2.9	B
22	6	3	1.9	14	43.2	90	30.2	15.1	2.1	5	3	294	31	0.10	1.2	1.7	A
22	6	13	56.7	14	37.8	90	56.3	11.1	1.6	4	4	290	30	0.23	1.2	0.9	A
22	13	22	18.3	14	29.3	90	34.2	5.6	2.0	6	3	158	21	0.23	1.1	2.9	B
22	13	23	57.9	14	29.7	90	34.3	3.3	2.0	6	3	160	20	0.22	1.1	3.7	B
22	15	15	53.8	14	46.5	90	38.9	8.7	2.3	6	2	291	30	0.16	1.9	1.7	A
22	20	42	44.7	14	29.8	90	35.4	0.2	1.6	6	1	147	19	0.20	1.1	6.7	C
22	21	24	37.0	14	41.2	90	57.0	3.3	1.8	5	0	298	33	0.02	10.3	9.4	D
23	0	42	11.8	14	37.2	90	41.7	8.6	1.5	5	4	192	25	0.10	0.8	0.9	A

1976	ORIGIN TIME HR	MN	SEC	LAT N DEG	MIN	LONG W DEG	MIN	DEEP KM	MAG	P	S	GAP DEG	D3 KM	RMS SEC	ERH KM	ERZ KM	Q
JUN 23	10	40	19.6	14	32.2	90	27.5	4.1	2.4	5	1	294	35	0.09	2.4	4.2	B
24	1	26	42.0	14	32.9	90	52.7	10.1	2.6	5	3	221	29	0.30	1.5	2.0	A
24	3	33	30.3	14	35.3	90	41.5	0.8	1.2	4	2	122	25	0.16	1.7	14.3	D
24	4	27	56.0	14	32.9	90	50.5	3.9	2.2	5	2	159	26	0.21	2.7	5.6	C
24	5	50	14.4	14	43.5	91	0.0	7.9	2.0	4	4	309	40	0.18	1.8	1.7	A
24	9	39	45.8	14	32.9	90	52.5	9.3	2.5	5	2	214	29	0.17	1.7	2.1	A
25	2	19	59.6	14	44.3	90	31.9	5.2	1.4	5	3	293	39	0.12	1.6	2.3	A
25	8	5	19.4	14	49.0	90	38.1	9.4	1.6	4	2	316	47	0.10	2.6	1.6	B
25	8	9	0.0	14	53.5	90	53.0	17.2	1.9	5	4	318	50	0.22	1.8	2.0	A
25	13	1	9.4	14	29.7	90	34.6	5.6	2.1	6	2	157	20	0.13	0.9	2.9	B
25	13	44	8.4	14	30.3	90	33.4	6.7	2.9	6	0	179	20	0.01	1.6	2.8	B
25	14	49	2.6	14	30.7	90	34.1	8.8	2.1	6	3	173	19	0.23	0.7	1.2	A
25	14	59	48.8	14	31.9	90	33.5	7.7	2.3	6	0	189	17	0.19	1.6	2.6	B
26	1	23	6.7	14	50.3	90	55.4	12.8	1.8	6	3	313	42	0.21	1.3	2.5	A
26	5	32	8.9	14	44.1	90	39.9	8.8	1.6	4	4	281	26	0.10	1.0	1.3	A
26	8	44	4.2	14	35.2	90	41.8	5.5	1.7	6	2	123	18	0.16	0.7	1.7	A
26	13	42	9.2	14	41.1	90	31.2	5.8	2.6	6	0	279	27	0.36	5.2	2.8	C
26	19	18	48.2	14	29.5	90	32.8	7.8	2.0	5	4	227	25	0.20	1.3	1.1	A
26	19	29	4.0	14	30.8	90	40.4	11.3	1.9	6	2	104	18	0.05	0.7	1.8	A
27	6	20	54.4	14	29.0	90	33.1	5.5	2.0	6	1	172	22	0.24	1.1	1.7	A
27	8	3	15.1	14	41.4	90	29.0	3.2	1.4	5	4	288	28	0.18	1.1	2.7	B
27	9	31	29.6	14	31.1	90	33.0	10.7	1.8	5	3	191	19	0.30	0.8	1.4	A
27	12	0	46.5	14	53.8	90	20.8	9.8	2.4	4	2	330	65	0.06	5.1	6.7	C
27	22	58	46.6	14	18.3	90	32.5	33.8	2.6	6	1	261	30	0.15	3.1	1.7	B
28	4	17	41.6	14	46.0	90	44.4	8.9	1.4	6	3	281	26	0.28	1.1	1.9	A
28	7	25	1.9	14	28.6	90	36.7	0.7	1.3	2	3	270	21	0.11	1.1	7.8	C
28	14	33	11.0	14	6.6	90	49.9	16.5	3.9	5	0	314	49	0.18	17.8	6.9	D
30	0	45	23.2	14	35.6	90	29.9	0.1	2.8	5	0	250	21	0.12	3.5	8.5	C
30	12	2	43.8	14	35.6	90	28.8	1.0	3.2	6	0	259	23	0.21	4.2	6.1	C
30	13	52	4.8	14	40.8	90	42.3	12.8	1.8	6	2	220	19	0.21	1.0	1.2	A
30	21	14	0.4	14	47.6	90	32.5	14.9	2.0	3	3	317	56	0.06	1.8	5.7	C