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NNA.870821.0046

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE LOCATION DATA FOR THE SOUTHERN GREAT BASIN OF NEVADA AND CALIFORNIA: 1984 THROUGH 1986

by

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Open-File Report 87-XXX

Prepared in cooperation with the
Nevada Operations Office
U.S. Department of Energy
(Interagency Agreement DE-AI08-78ET44802)

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Company names are for descriptive purposes only and do not constitute endorsement by the U.S. Geological Survey.

Denver, Colorado
1987

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Earthquake Location Data for the southern Great Basin of Nevada and California: 1984 through 1986

Abstract

This report presents data in map and table form for earthquake parameters such as hypocentral coordinates and magnitudes for earthquakes located by the southern Great Basin Seismic network for the time period January 1, 1984, through December 31, 1986. These maps show concentrations of earthquakes in regions previously noted to be seismically active, including the Pahranagat Shear Zone, Pahroc Mountains, southern Nevada Test Site, Timber Mountain, Black Mountain, Gold Mountain, Montesuma Range, and Grapevine Mountains. A concentration of earthquake activity in the Reveille Range was observed in 1986, in a previously inactive area. The northern Nevada Test Site had fewer earthquakes than a comparable area of the southern Nevada Test Site, indicating that the low-yield nuclear testing program is not currently triggering significant numbers of aftershocks. Yucca Mountain and Crater Flat continued to yield very few microearthquakes during the 1984-1986 monitoring period. Depths of focus for well-located earthquakes continue to indicate a weakly bimodal distribution, with peaks at 1-2 and 8-9 km below sea level and a local minimum at 4-5 km.

Introduction

The southern Great Basin seismograph network is operated by the U. S. Geological Survey to investigate seismicity and tectonics of the Yucca Mountain site and the surrounding region (radius ≈ 160 km) under an agreement with the U. S. Department of Energy (Nevada Nuclear Waste Storage Investigations Project).

This data report summarises the earthquake locations computed for the time period January 1, 1984 through December 31, 1986 using the location computed program HYPO71. Earthquake locations use the same velocity model as in previous seismicity reports (Rogers and others, 1983; Rogers and others, 1987). Earthquake local magnitudes are computed by the formulas reported in Rogers and others (1987). The velocity and certain magnitude parameters are summarised in Appendix C.

In 1984, 646 local earthquakes were located (Figure 1 and Appendix A; by "local" we mean within the map boundaries shown in Figure 1). In 1985, 1070 local earthquakes were located (Figure 2 and Appendix A). In 1986, 1176 local earthquakes were located (Figure 3 and Appendix A). Magnitudes range from 0.0 to 3.0 (Appendix A). Figure 4 shows the seismicity for the period August, 1978, through December, 1986, i. e., since the inception of the SGB seismic network. Some of the seismically active and quiescent regions discussed below are identified in Figure 1.

Figures 1 through 4 near here

During that time period, a few changes were made to seismographic station locations. In 1983 station

NMN was destroyed by vandals, and on November 2, 1984, station TCN (Thirsty Canyon) was installed to replace NMN. Single-component horizontal seismometers were installed at stations PRN, GMR, JON, EPN, GVN, and PGE in 1984. Two horizontal components are available at YMT4 and LSM. Station parameters, including coordinates, elevations, and gains, are listed in Appendix B. The electronics of the horizontal component seismic stations are discussed in appendix D, along with some calibration notes.

Acknowledgments

Field equipment was maintained and calibrated by personnel from Stanwick, Inc., and Cerberonics, Inc. under the supervision of Dee Overturf and Tom Bice, U. S. Geological Survey. Phase data were scaled by Pingsheng Chang, David Hampson, and Susanne Shelley, to whom we are grateful.

Discussion

This data report is being distributed without detailed discussion for the sake of rapid information dissemination. Discussions of seismicity patterns, focal mechanisms, and tectonic implications from data collected from 1978 through 1983 are available in Rogers and others (1987). The data of this report do not substantially modify earlier conclusions.

A few summary observations about earthquake distributions follow. (1). The seismicity at the Nevada Test Site (NTS) appears qualitatively different from that at other subregions of the southern Great Basin having comparable rates of seismicity. All other active areas show swarms having 50 or more earthquakes in a small area and brief time span, whereas NTS seismicity does not contain such swarms. Figures 5 and 6 show the cumulative numbers of earthquakes located from December 1978 through June 1986 in the southern and northern NTS, respectively. Also note that, at present, the southern NTS is about twice as active as the northern NTS, which contains the three testing zones. Pahute Mesa, Rainier Mesa, and Yucca Flat, indicating that nuclear-testing-induced activity in the northern NTS is perhaps less significant than it has been in the past. Figure 7, showing the seismicity rates for the Pahroc and Pahranagat regions, indicates two concentrated swarms. Figure 8, showing the seismicity rates for Sarcobatus Flat, reveals multiple swarms, as does figure 9, showing seismicity rates for the Grapevine Mountains and Gold Mountain. The absence of distinct swarms in the seismically active southern NTS was noted in an earlier report (Rogers and others, 1983). This difference could be an artifact of the limited monitoring period, related to explosion-induced seismicity properties, or a result of deep-seated tectonic differences at the NTS compared to the surrounding region. At present it is not possible to choose between these various possibilities.

Figs. 5 through 9 near here

(2). The bimodal distribution of depth of focus for earthquakes of the southern Great Basin continues to be observed in the 1984-1986 data. Figure 10 shows that well-located earthquakes (HYPO71 "A" and "B" quality solutions) have a skewed, but bimodal distribution, with peaks at 1-2 km and 7-8 km below sea level. The large number of very shallow focus earthquakes is in large part due to unmodeled high-velocity shallow rock at the Reveille and Belted Ranges, where approximately 210 earthquakes were located from February to December, 1986. High-velocity surficial rock that is modeled by a lower velocity theoretical model tends to decrease depth-of-focus estimates. Figure 11 shows the average HYPO71 standard error estimate in each depth interval for the data of figure 10. Figure 12 shows the distribution of depth-of-focus for all HYPO71 "A", "B", and "C" quality earthquakes. Proportionately more deeper-focus earthquakes (i.e., $z > 8$ km) appear in this data set than in the one shown in figure 10. The dependence of estimated depth of focus on the velocity model used to perform the earthquake location in networks having relatively sparse station

distribution, such as the southern Great Basin network, is a problem when shallow rock velocities exhibit significant lateral variation. Future plans for the network include setting up temporary networks of densely spaced seismographic stations to improve earthquake location estimates and velocity structure information in swarm regions. In particular, such networks should provide more accurate data about the possible existence of zones of detachment within the seismogenic crust.

Figs. 9-11 near here

Seismicity at Yucca Mountain and Vicinity

In the period January, 1985 through December, 1986, eight earthquakes were detected at Yucca Mountain and immediately to the west in Crater Flat (Fig. 13). The maximum magnitude was $M_L = 0.9$. There were no Yucca Mountain earthquakes detected in 1984. Table 1 summarizes the earthquake location parameters. A report on Yucca Mountain seismicity, containing focal mechanisms and a joint hypocenter-velocity inversion, is in preparation.

Fig. 13 near here

DATE TIME (UTC)	LAT., ° N.	LONG., ° W.	N-S sdy (km)	E-W sdx (km)	Depth±sds (km)	M_L	Dist. to site (km)
850214 04:51:25	36.728	116.488	2.6	2.9	0.2±3.0	0.87	13.8
850417 11:03:16	36.850	116.408	0.2	0.2	5.3±0.4	0.01	4.5
851004 01:37:26	36.784	116.410	1.8	1.7	0.0±0.6	-0.06	8.5
851012 04:36:43	36.701	116.434	0.5	0.7	9.2±0.9	0.47	16.7
860209 11:39:31	36.888	116.445	0.6	0.6	0.0±0.4	0.03	4.4
860624 02:41:07	36.725	116.458	0.2	0.3	6.2±0.6	0.24	13.9
860821 20:34:19	36.910	116.382	0.2	0.3	7.8±0.6	0.07	9.5
861221 09:15:37	36.871	116.564	0.4	0.4	8.4±0.6	0.61	9.7

Table 1. Summary of preliminary location parameters for earthquakes located at or near Yucca Mountain for the monitoring period 1984 through 1986. The "distance to site" represents the epicentral distance to the point 36°51'N., 116°27.5'W., near the center of a potential nuclear waste repository. Depth is relative to sea-level (0.0 km). Sdx, sdy, and sds are HYPO71 standard errors in estimates of hypocentral longitude, latitude, and depth of focus, respectively.

Conclusions

1. Swarm areas persist for several years in many parts of the southern Great Basin (e.g., Pahranagat Shear Zone, Pahroc Mountains, Gold Mountain, and Grapevine Mountains).

2. Quiet zones persist for several years in many parts of the southern Great Basin (e.g., Yucca Mountain, Crater Flat, portions of the Desert Game Ranges, portions of the Death Valley-Furnace Creek fault system).

3. If we assume that enough time has elapsed to get reasonable samples of seismicity at the Nevada Test Site relative to other regions in the southern Great Basin, then NTS seismicity exhibits a different temporal

behavior due to its lack of intense swarm activity, which characterises other active areas in the southern Great Basin.

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Lee, W. H. K., and Lahr, J. C., 1975, HYPO71 (revised): A computer program for determining hypocenter, magnitude, and first-motion pattern of local earthquakes: *U.S. Geological Survey Open-File Report* 75-311, 116 p.

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Rogers, A. M., S. C. Harmsen, and M. E. Meremonte, 1987. Evaluation of the seismicity of the southern Great Basin and its relationship to the tectonic framework of the region, : *U. S. Geological Survey Open-File Report* 87-???, xxx p.

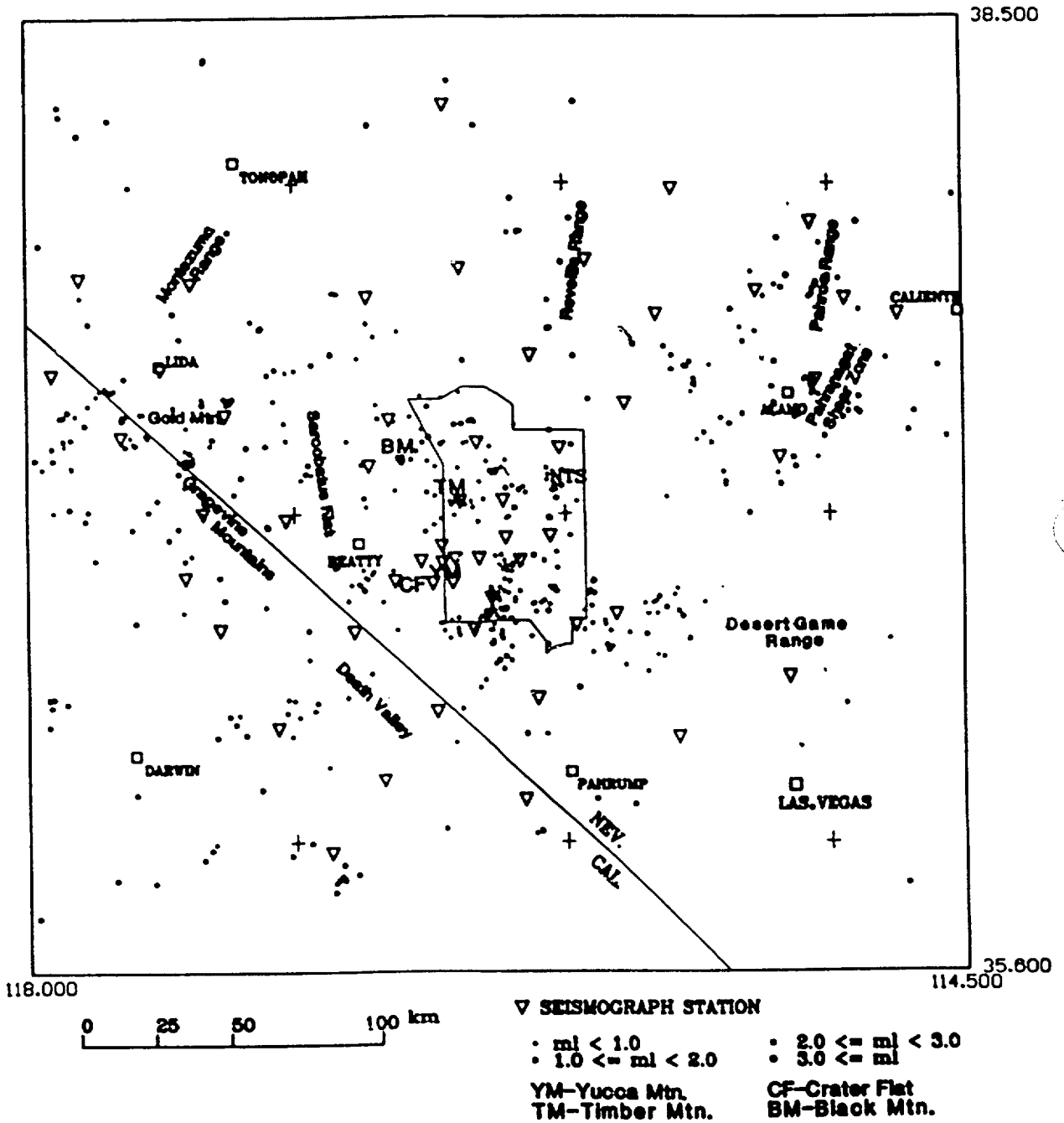

Figure 1.– Seismicity in the southern Great Basin, 1984. Seismically active and quiescent areas are identified. Towns and cities are indicated by a *square* symbol.

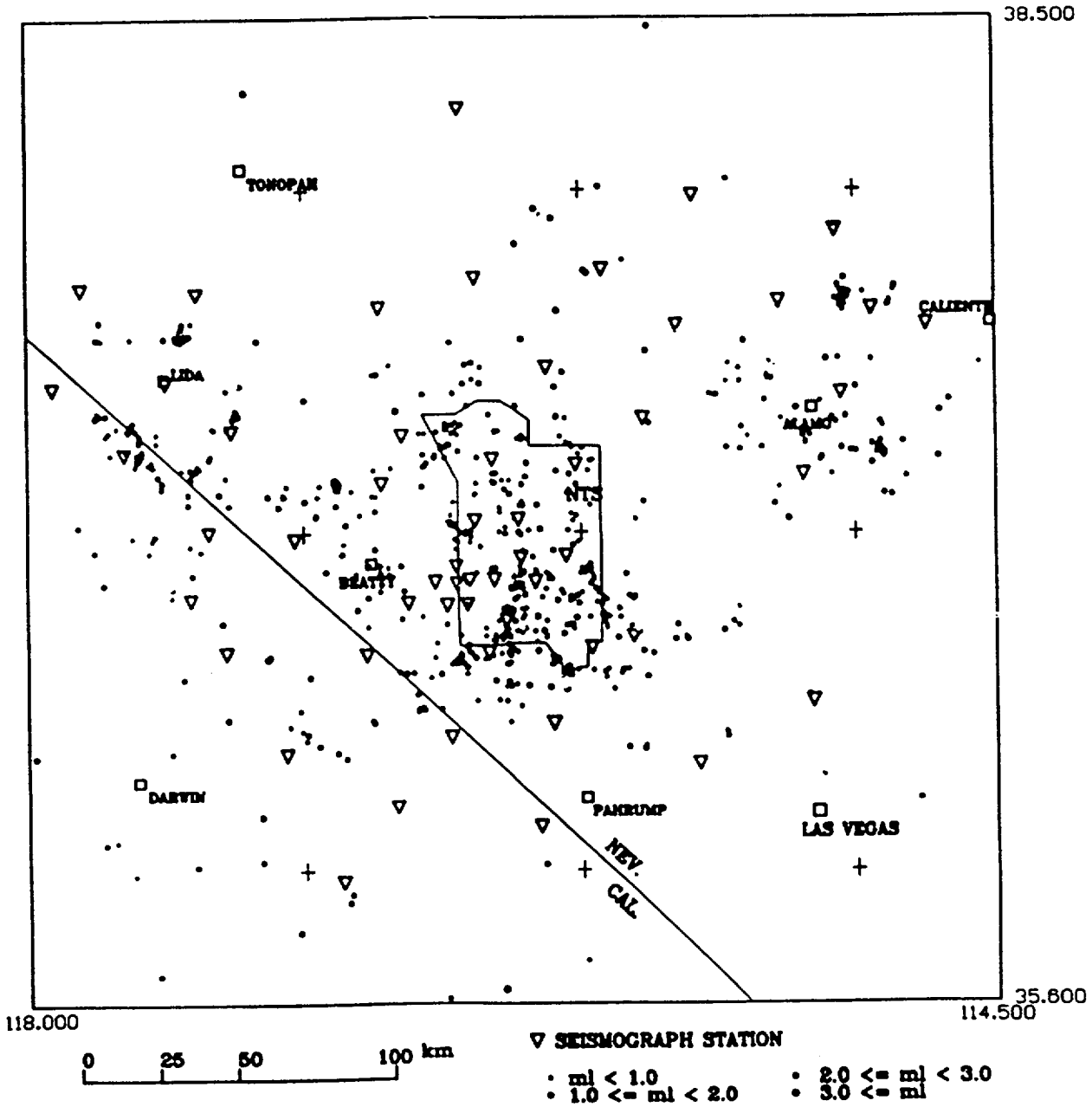

Figure 2.– Seismicity in the southern Great Basin, 1985.

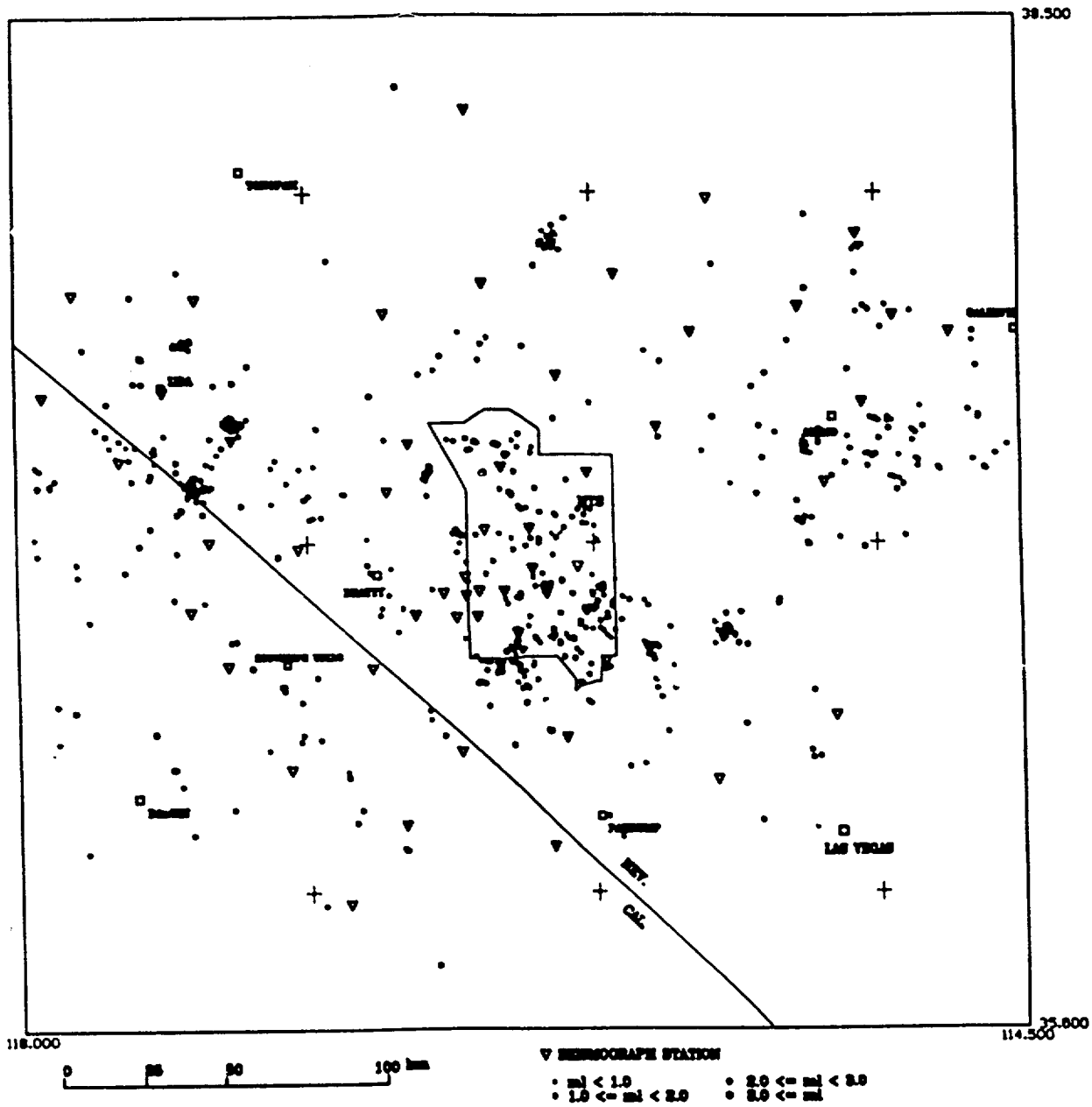

Figure 3.– Seismicity in the southern Great Basin, 1986.

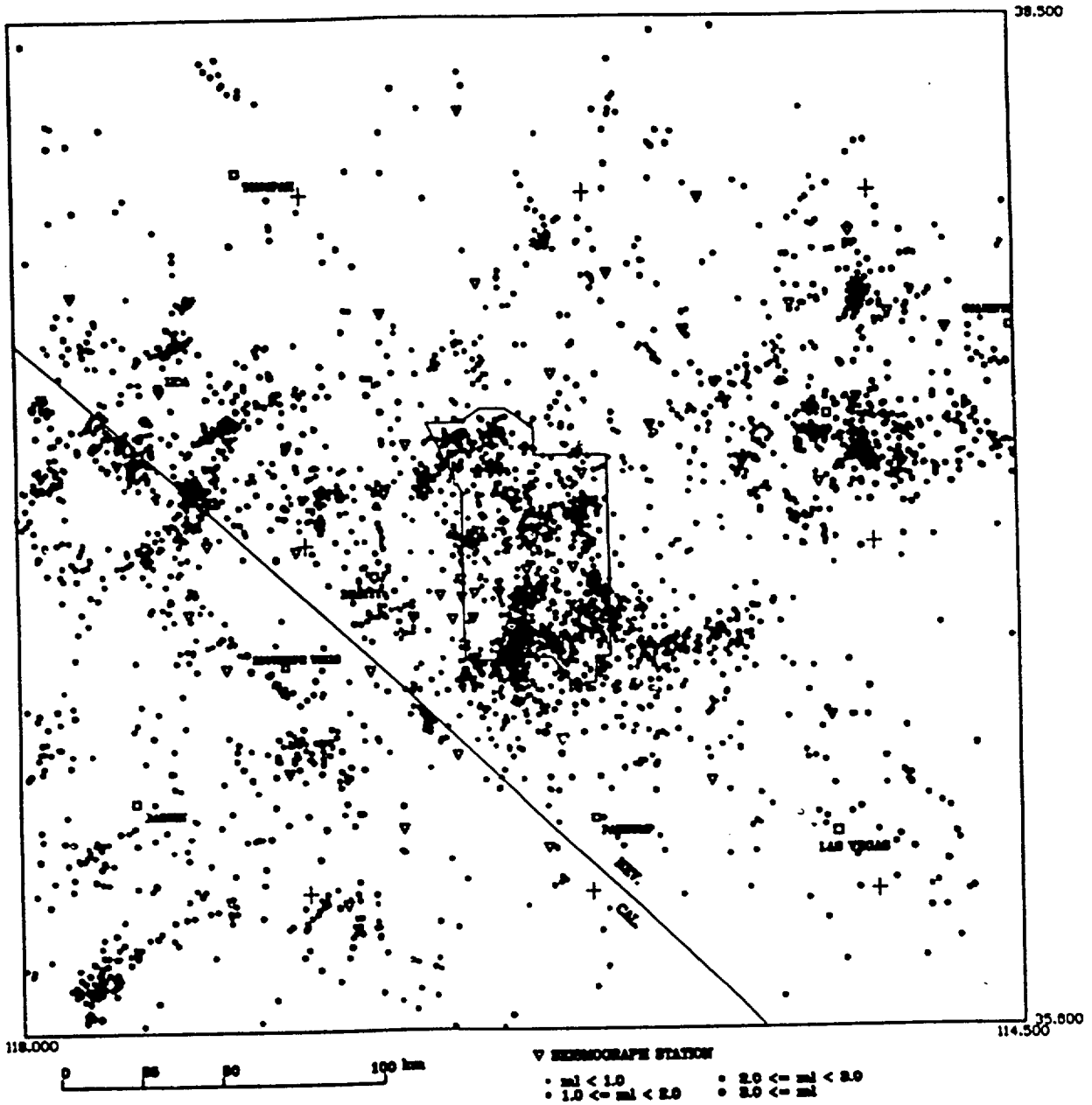

Figure 4.– Seismicity in the southern Great Basin for the period August 1, 1978, through December 31, 1986.

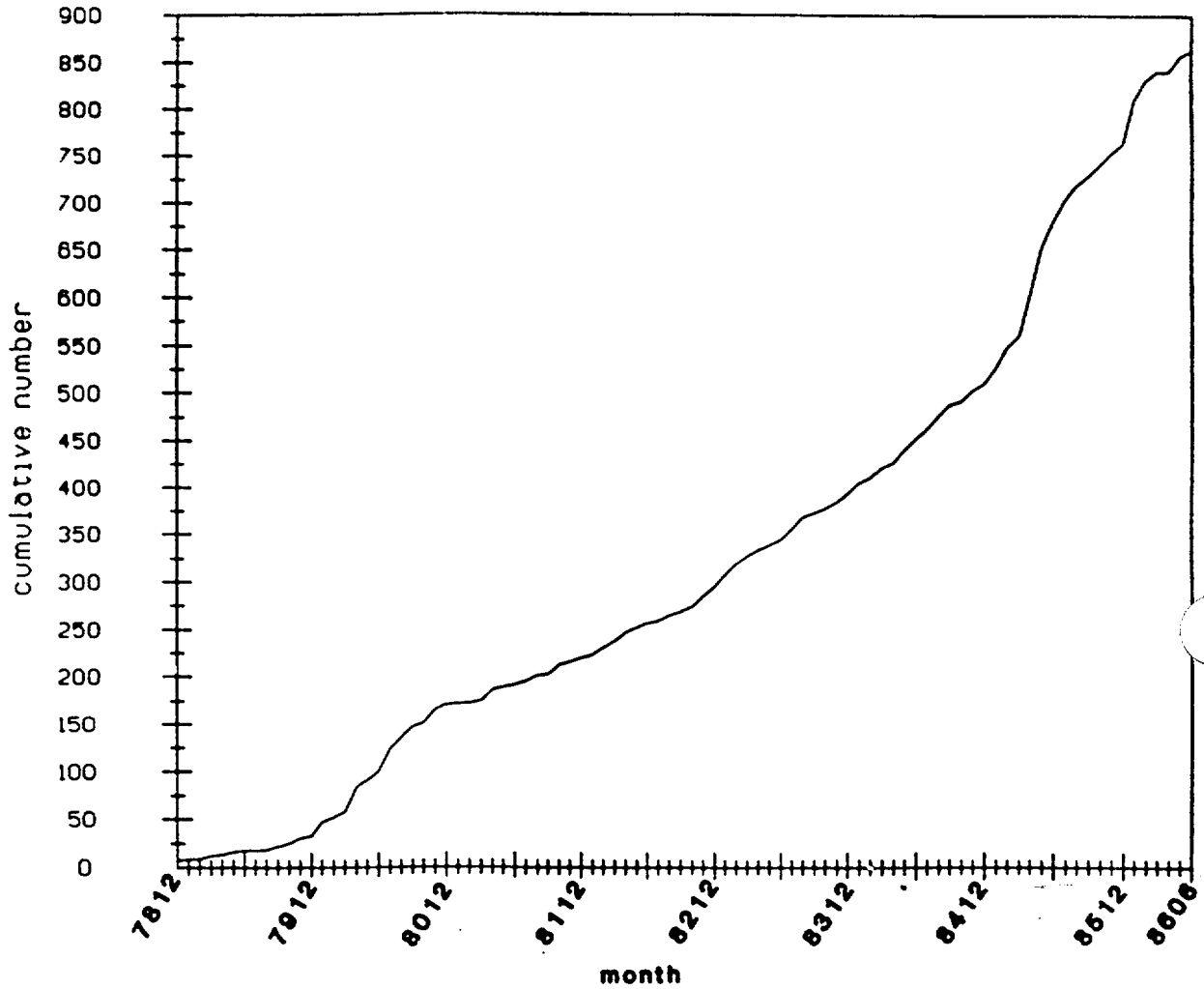

Figure 5.– Cumulative number of earthquakes detected in southern NTS, December, 1978 through June, 1986.

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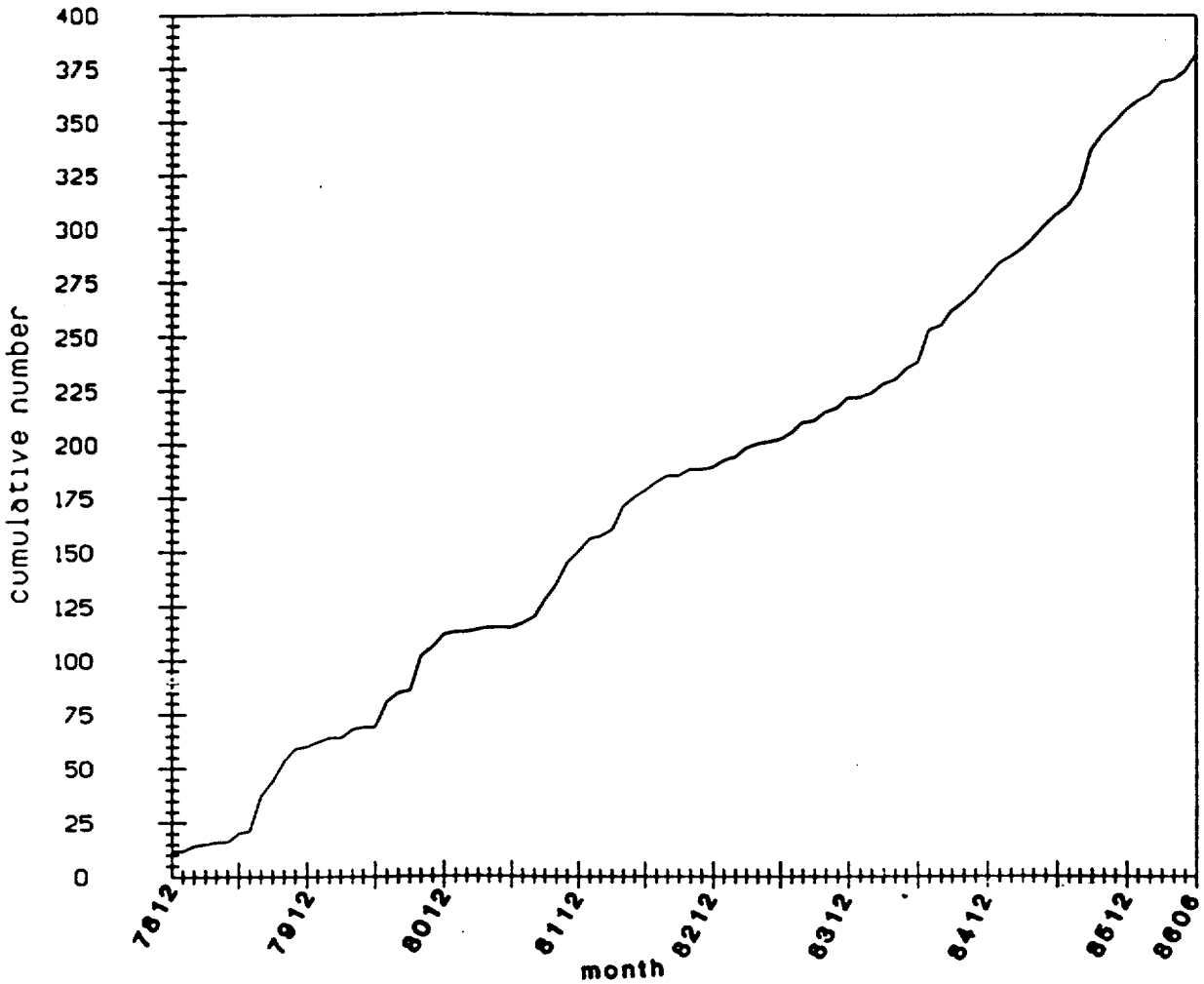

Figure 6.– Cumulative number of earthquakes detected in northern NTS, December, 1978 through June, 1986.

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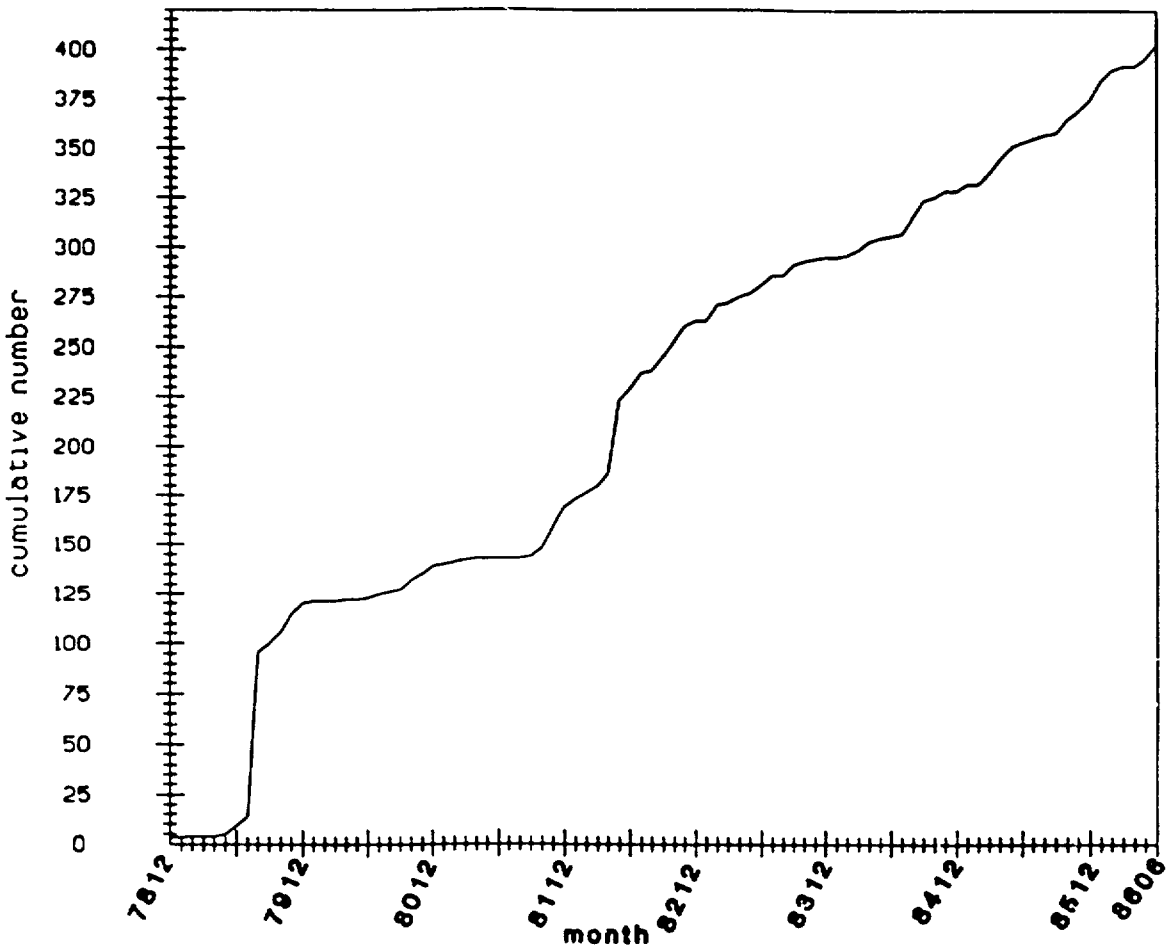

Figure 7.– Cumulative number of earthquakes detected in Pahroc and Pahranagat regions, December, 1978 through June, 1986.

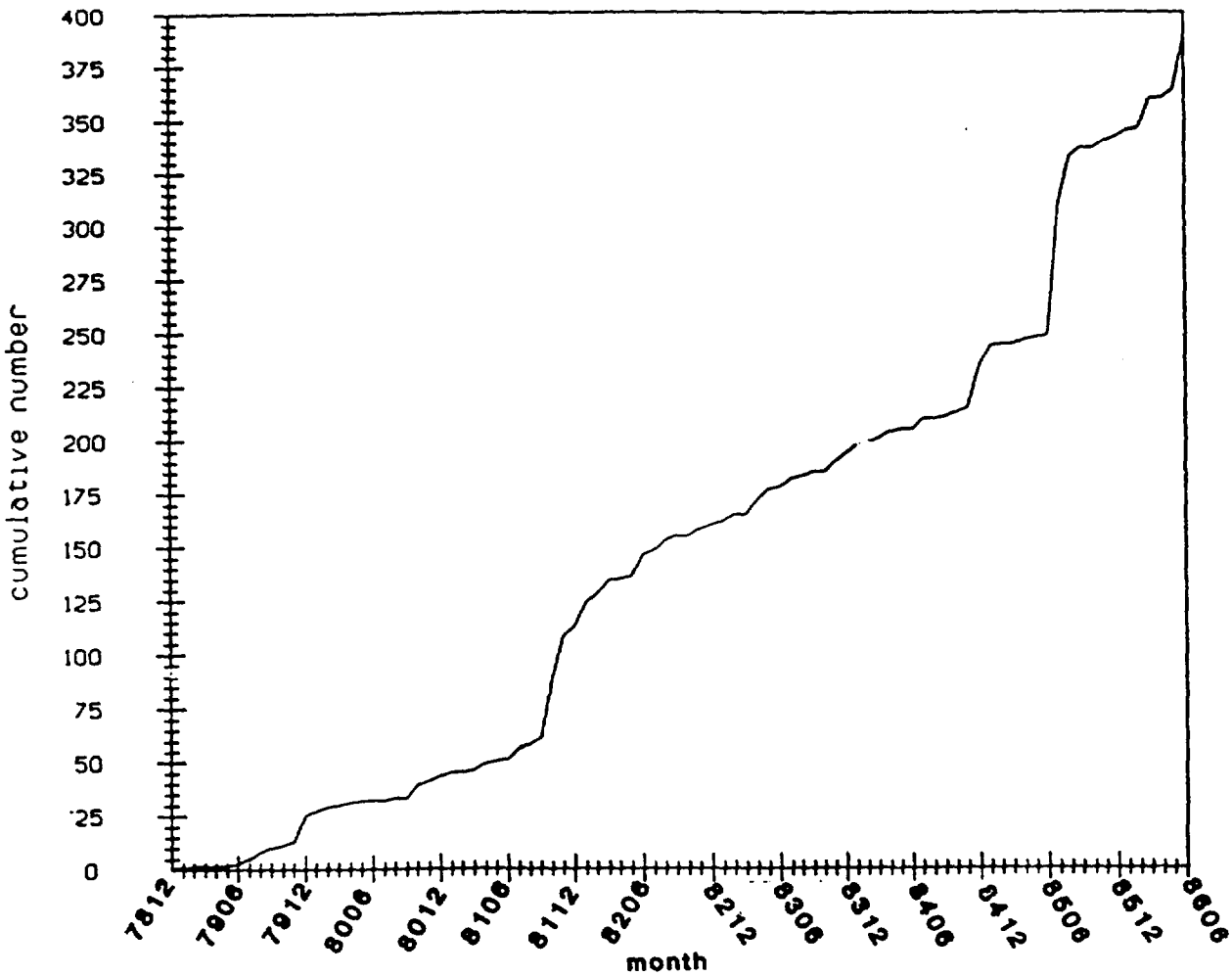

Figure 8.– Cumulative number of earthquakes detected in Sarcobatus Flats, December, 1978 through June, 1986.

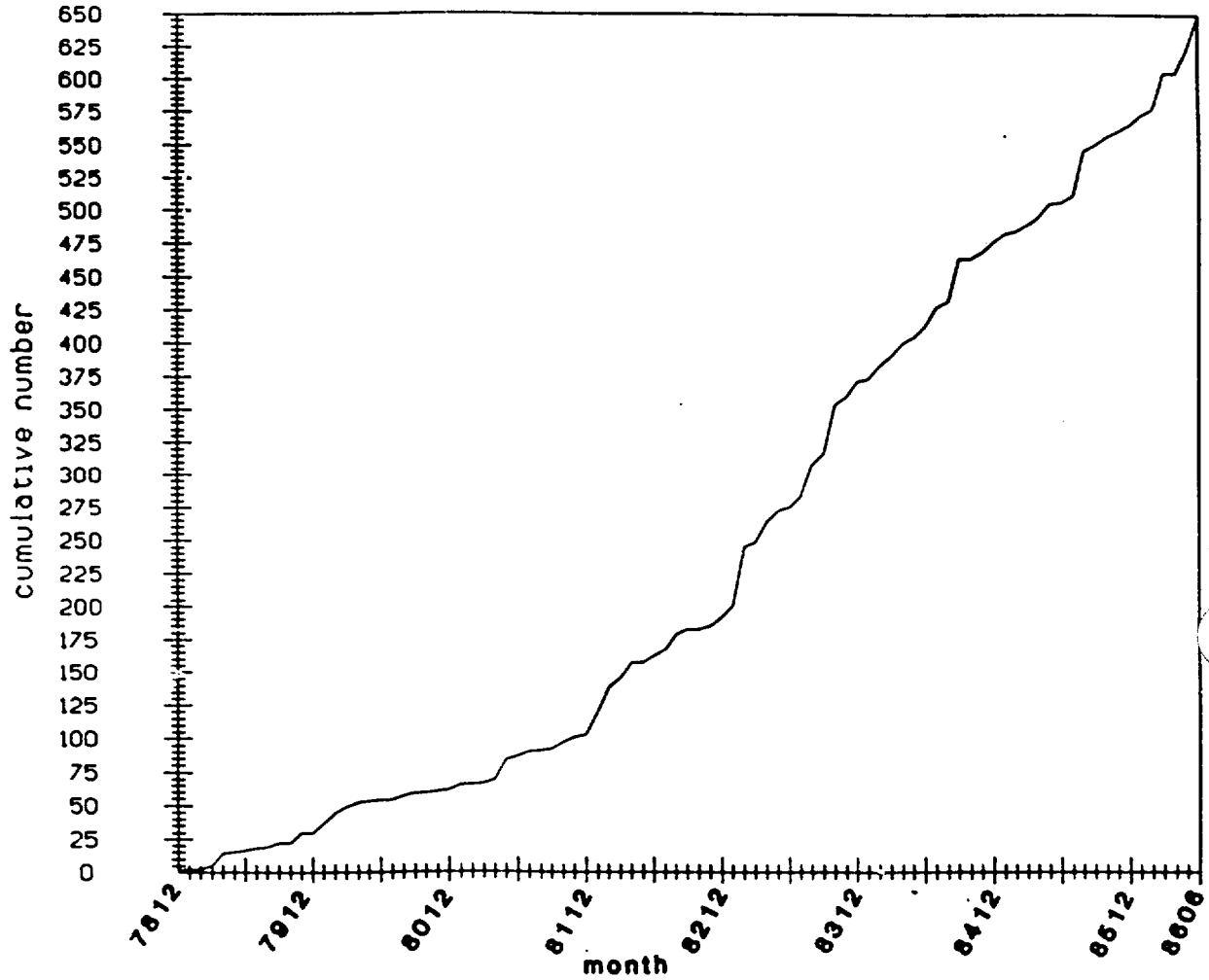

Figure 9.– Cumulative number of earthquakes detected in Grapevine Mountains and Gold Mountain region, December, 1978 through June, 1986.

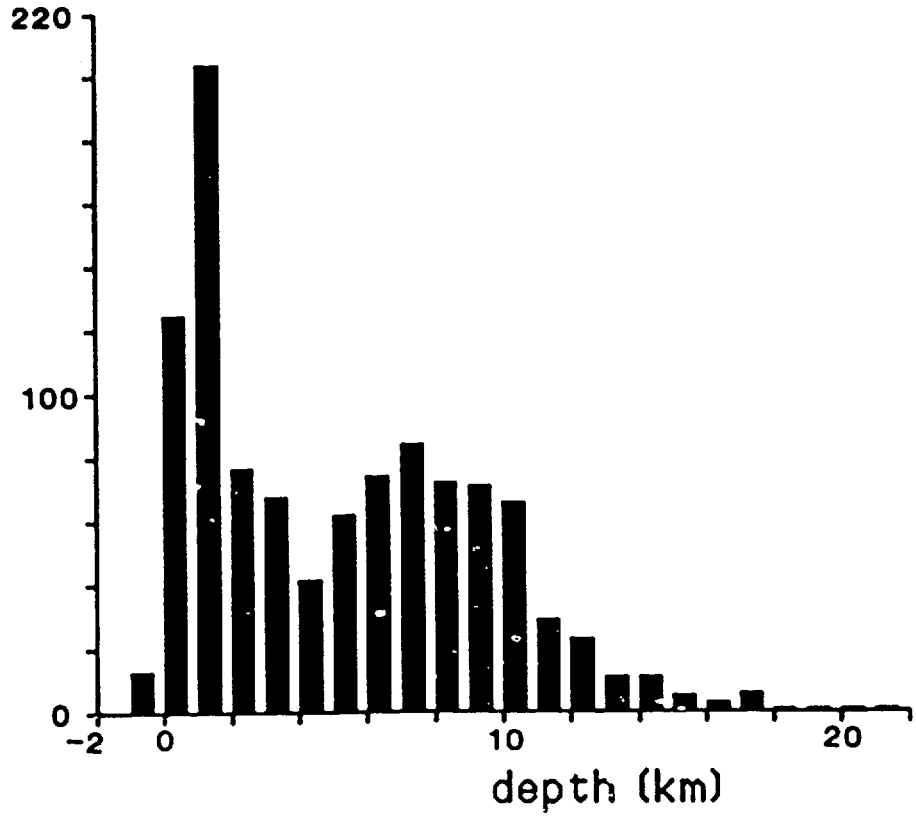

Figure 10.- Depth-of-focus distribution for well-located ("A" and "B" quality) southern Great Basin earthquakes, January 1984 through October 1986.

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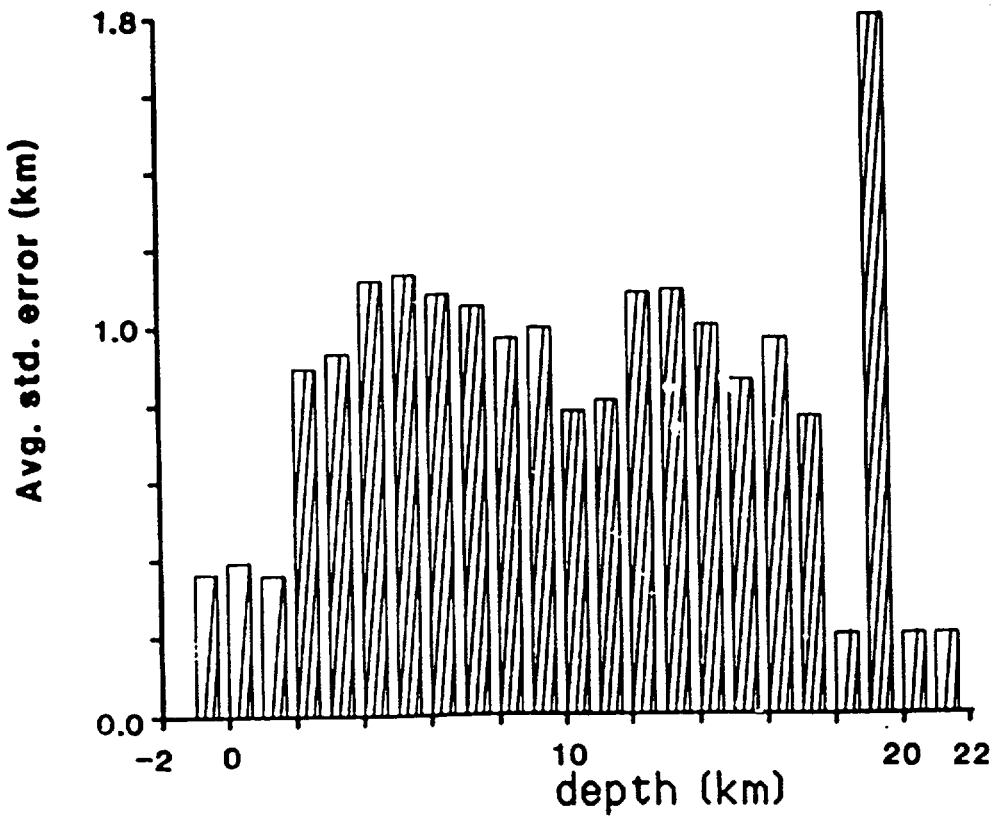

Figure 11.– Average error distribution for depth-of-focus data of Figure 10. The average error is the arithmetic mean of the HYPO71 standard errors in depth (km) for the depth-of-focus data in the intervals shown.

9075900/568

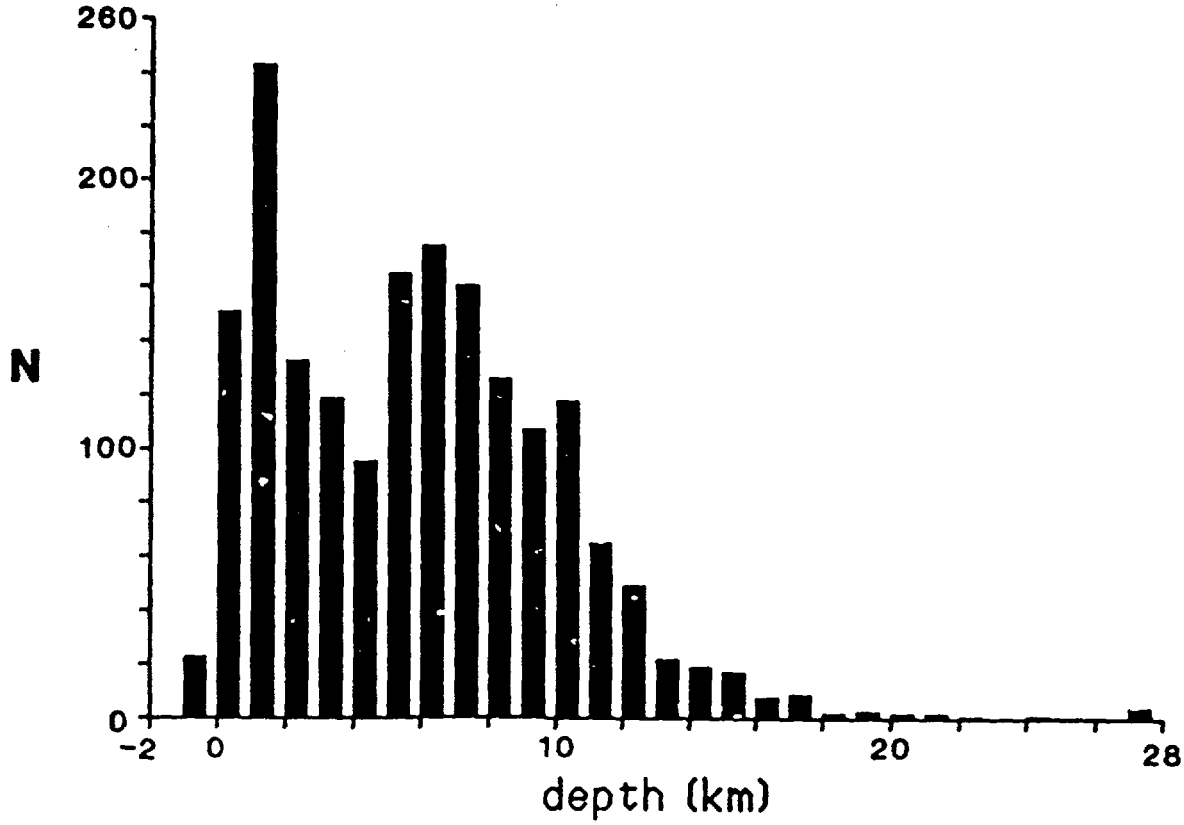

Figure 12.–Depth-of-focus distribution for "A", "B", and "C" quality southern Great Basin earthquake hypocenters, January 1984 through October 1986.

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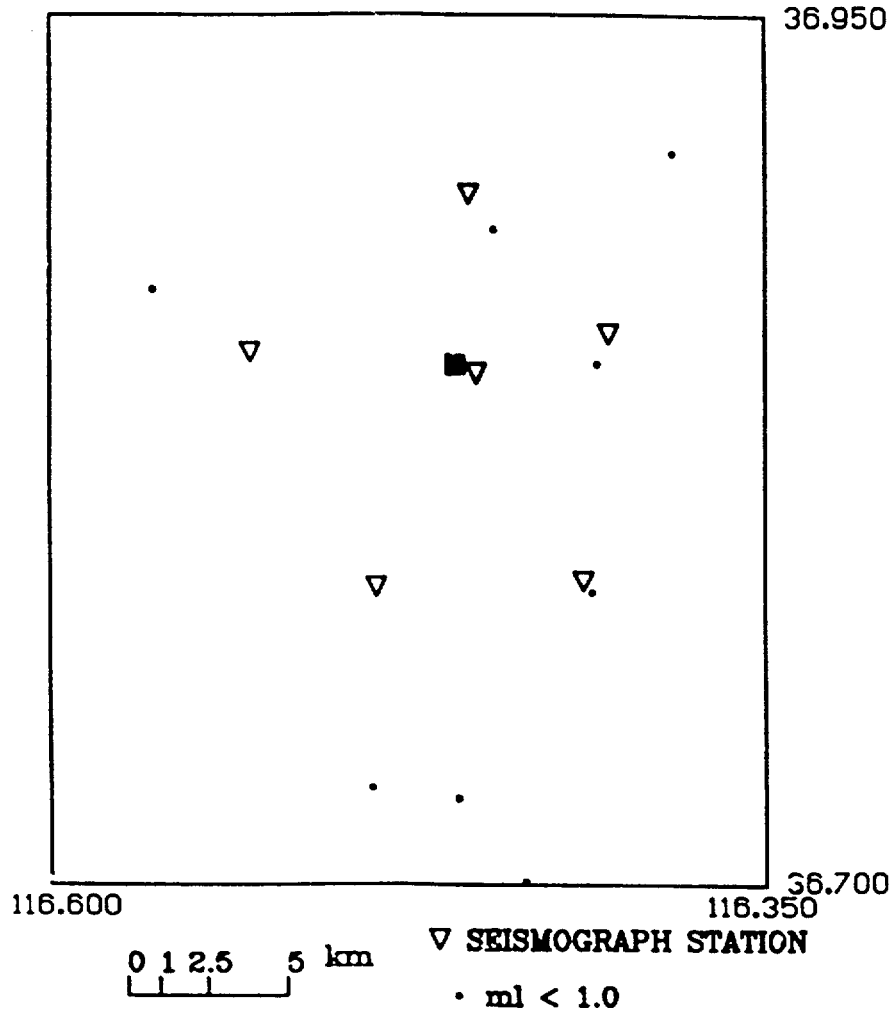

Figure 13.– Map of earthquakes detected at and near Yucca Mountain, 1985 and 1986. The square at the center of the map is the point 36°51′ N., 116°27.50′ W., representing the site of a potential nuclear waste repository.

9075900/570

Appendix A

Earthquake locations for the years 1984, 1985 and 1986

and maps of place names to which locations are keyed

The local hypocenter summary column headings are for the most part self-explanatory. Horizontal error equals $\sqrt{sdx^2 + sdy^2}$, where sdx and sdy refer to the HYPO71 standard errors in longitude and latitude, respectively. Vertical error is the HYPO71 standard error in depth (sdz). "AZI GAP" is the azimuthal gap, i.e., the largest angle subtended by any two station-epicenter line segments. "QUAL" represents the two HYPO71 quality estimates as defined by Lee and Lahr (1975). M_{bLg} is the southern Great Basin local magnitude estimate, as discussed in Rogers and others (1987). M_d is the duration magnitude estimate, also discussed in Rogers and others (1987). The depths may be followed by one or two asterisks. One asterisk implies that too few phase readings were available to provide an estimate of sdz and two asterisks imply that the depth was fixed at 7.0 km below sea-level, a default value used when only three phase readings are available to locate the earthquake. Finally, UCT is Universal Coordinated Time, more frequently abbreviated UTC.

9075900/571

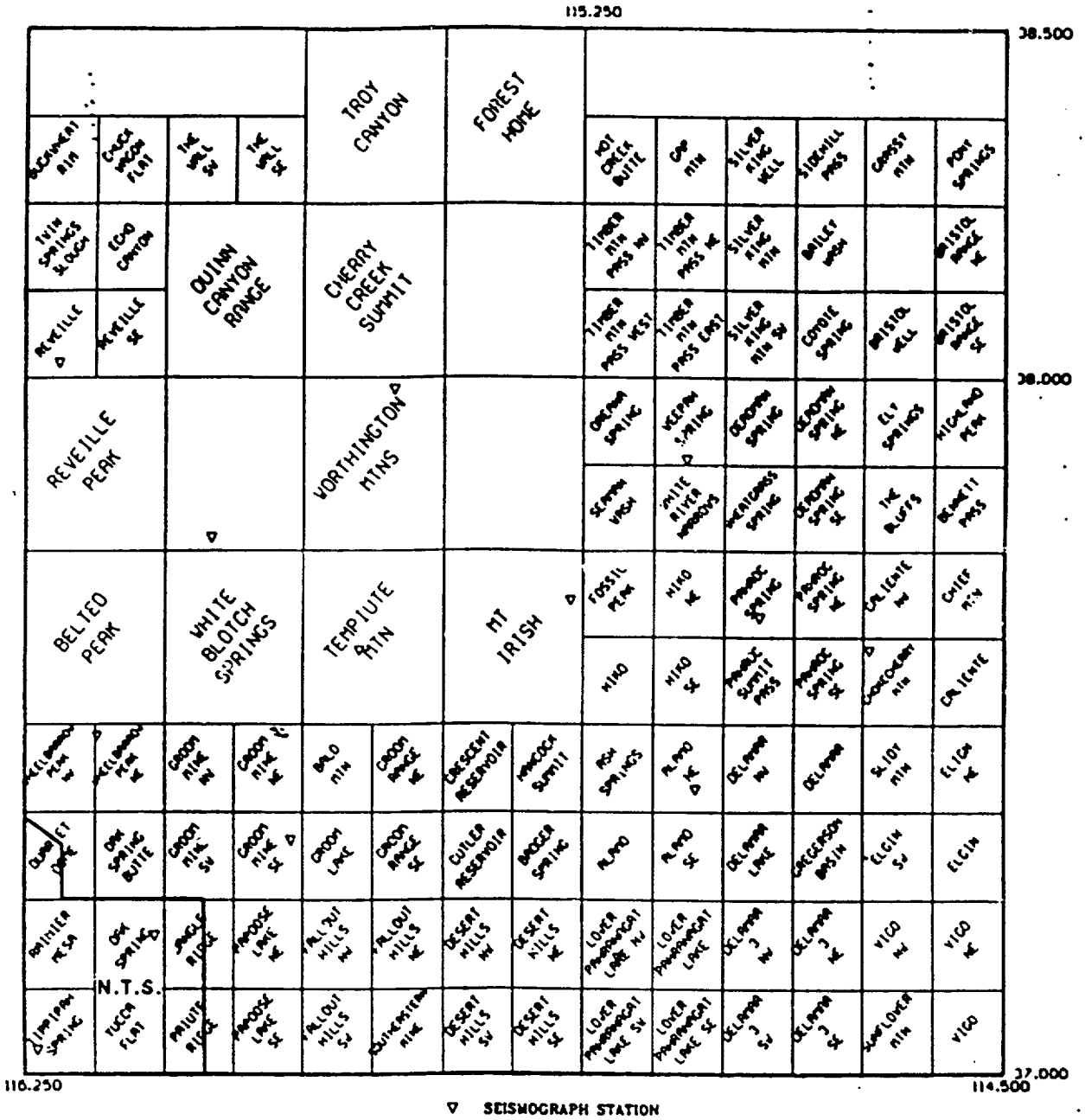

Figure 1. Place names in northeast quarter of southern Great Basin.

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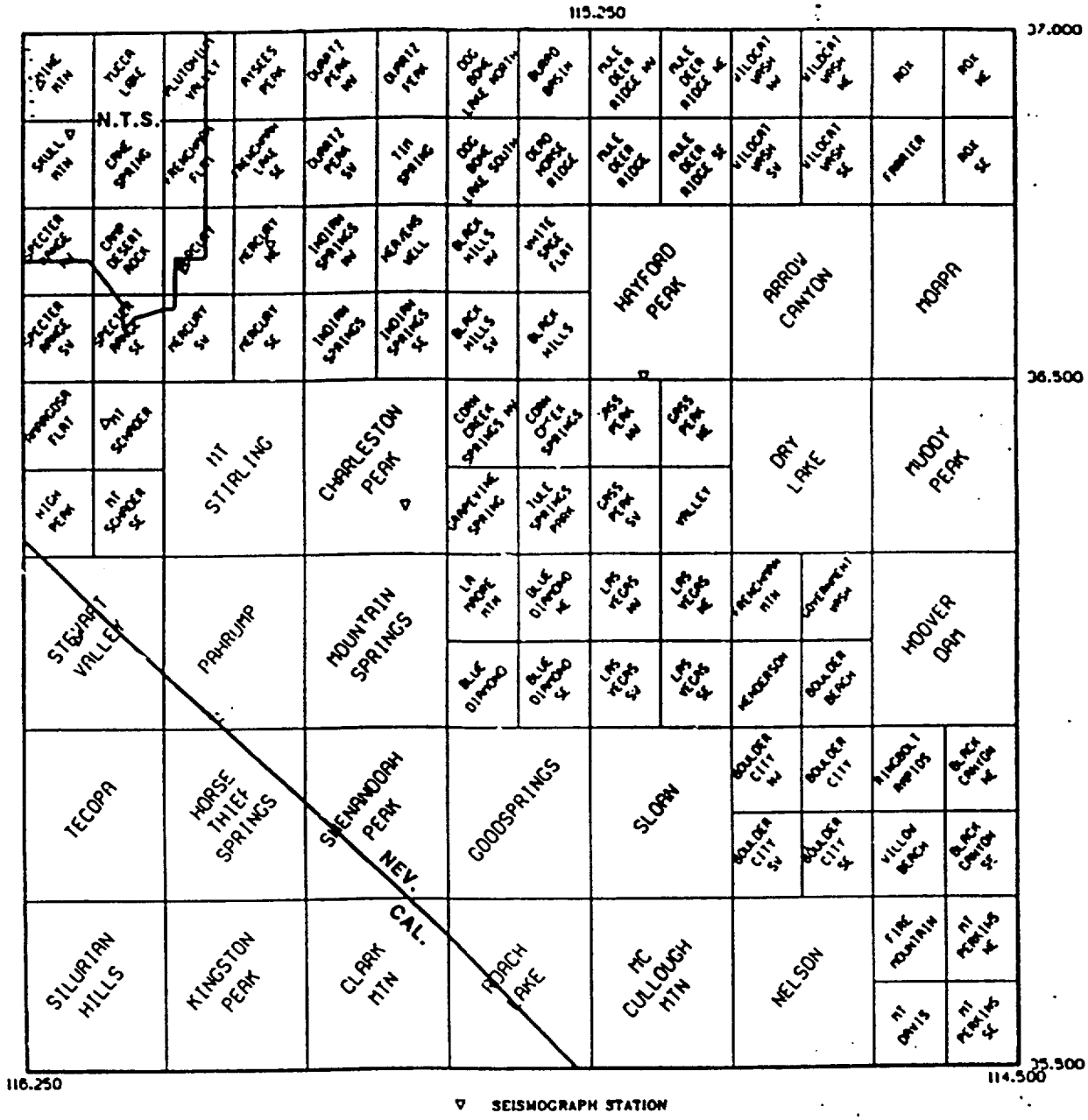

Figure 2. Place names in southeast quarter of southern Great Basin.

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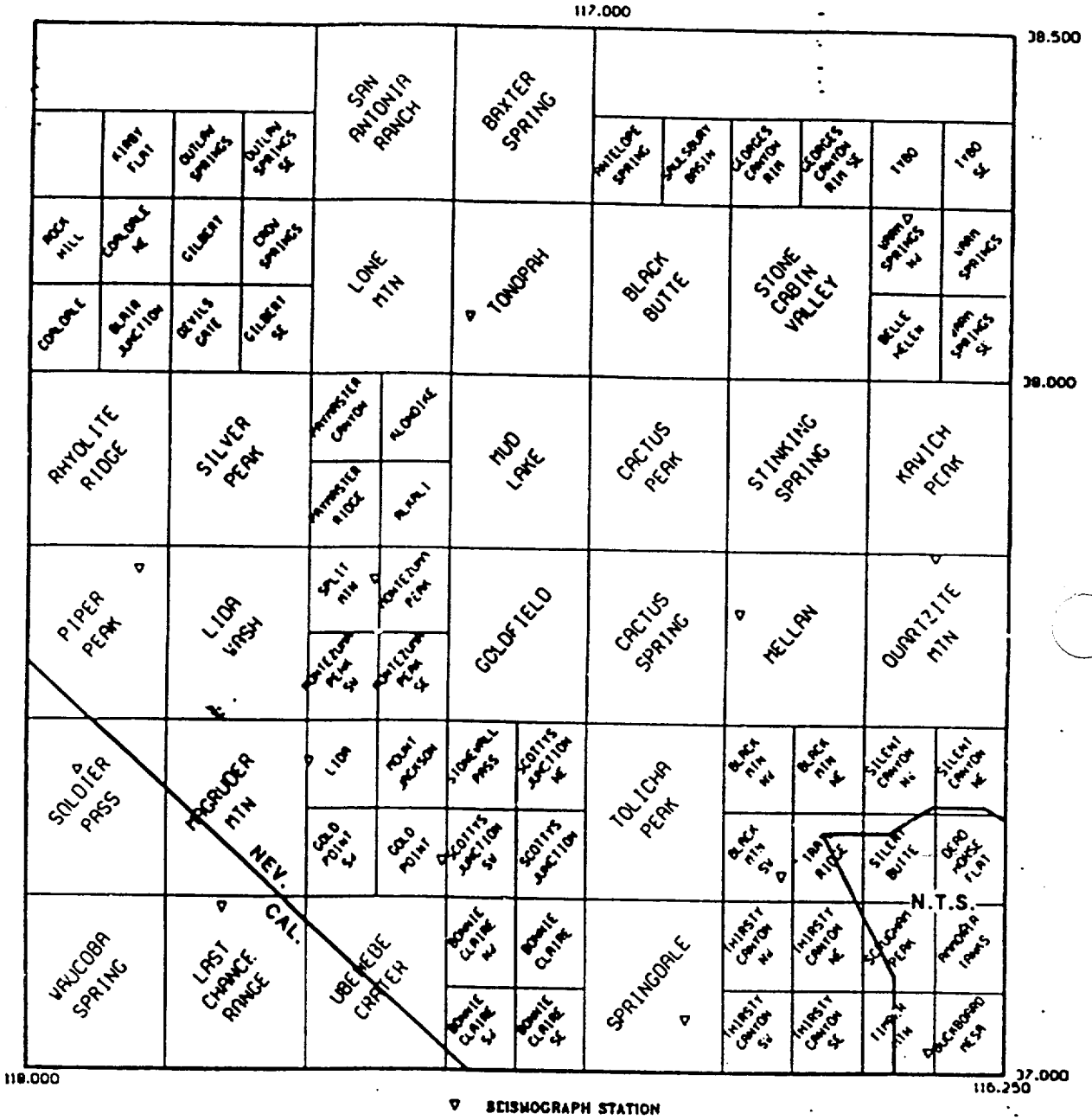

Figure 3. Place names in northwest quarter of southern Great Basin.

9075900/574

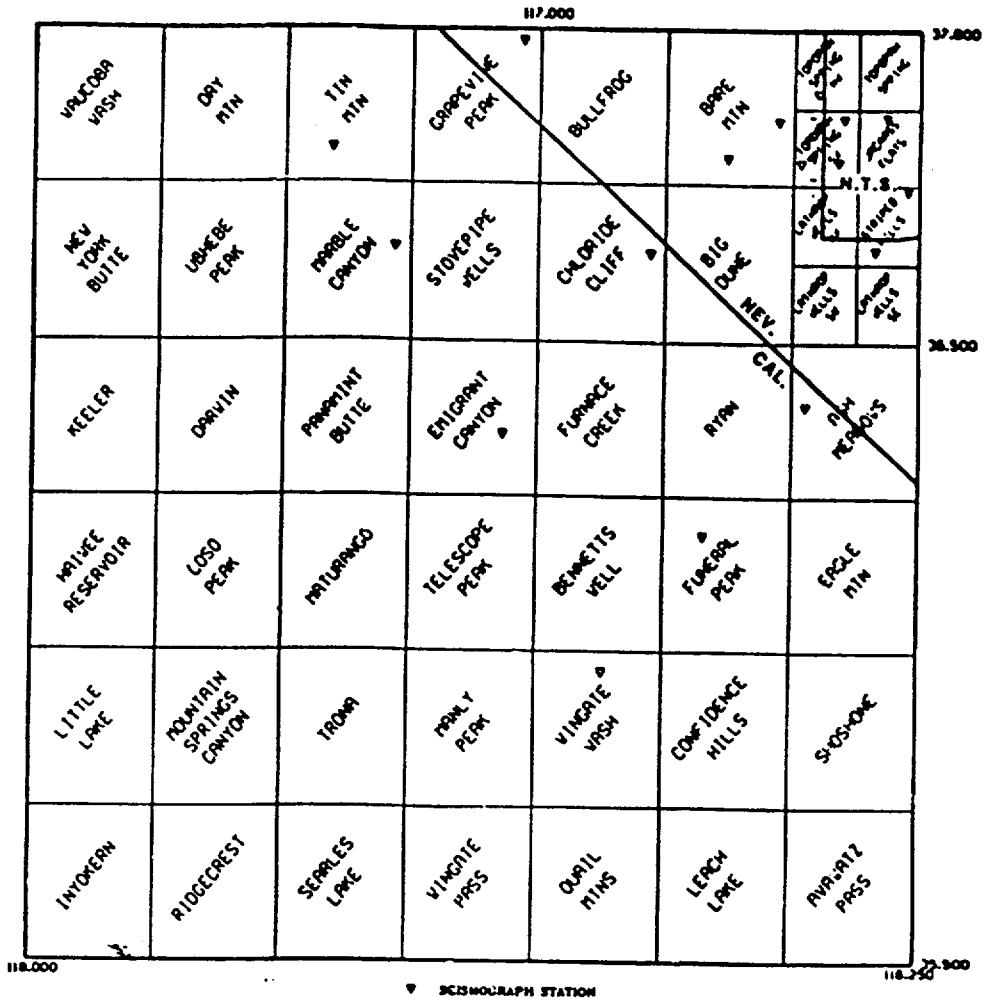

Figure 4. Place names in southwest quarter of southern Great Basin.

9075900/575

1984 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JAN 1	9:45:24	37.436	117.063	1.8	2.87	6.3	240	CD	---	1.3	SCOTTYS JUNCTION NE
1	15:22:27	36.717	117.109	3.6	16.25	1.2	184	AC	---	0.7	STOVEPIPE WELLS
2	4: 5:33	36.983	116.458	0.5	11.07	0.7	284	AD	---	0.7	TOPOPAH SPRING NW
3	0:13:18	36.825	116.634	0.6	0.00	0.0	127	BB	---	0.7	BARE MTN
3	15: 5:18	37.449	115.837	1.3	4.26*	---	137	CC	---	1.2	GROOM RANGE NE
4	23:31:40	36.732	116.671	1.3	6.21	5.0	148	BC	---	1.0	BIG DUNE
6	11:18: 8	36.886	116.224	1.3	3.28	3.1	107	BB	---	0.4	SKULL MTN
6	11:20:50	36.839	116.220	0.5	3.33	1.1	133	AB	---	0.5	SKULL MTN
8	22: 4:47	36.761	116.287	0.5	4.00	0.5	151	AC	---	1.0	JACKASS FLATS
8	22: 4:47	36.765	116.271	0.3	4.05	0.4	77	AA	---	0.0	JACKASS FLATS
8	23:44:14	36.736	116.077	0.8	6.28	3.0	161	BC	---	0.6	CAMP DESERT ROCK
8	23:44:14	36.729	116.090	0.7	0.94	0.8	181	AC	---	0.6	CAMP DESERT ROCK
10	4:41:23	37.893	115.973	0.7	3.17*	---	169	CD	---	1.4	***QUAD. NOT LISTED***
10	18:50: 3	36.815	116.704	18.0	0.44*	---	317	DD	---	0.9	BARE MTN
11	3:44:51	37.458	116.933	0.4	7.00**	3.6	105	BC	---	1.0	TOLICHA PEAK
11	18:58: 7	36.714	116.228	0.5	-0.25	0.3	215	AD	---	0.5	SPECTER RANGE NW
13	15: 4:35	37.167	117.904	2.7	2.97*	---	249	CD	---	1.3	WAUCOBA SPRING
13	18:24:52	37.965	114.531	4.0	2.38*	---	300	CD	---	1.2	HIGHLAND PEAK
14	11:37:52	37.122	116.900	0.4	7.27	1.2	152	AC	---	1.0	SPRINGDALE
15	0: 0:37	36.706	116.233	0.5	2.71	0.5	215	AD	---	0.4	SPECTER RANGE NW
16	3:31:38	37.171	118.040	2.3	7.88*	---	276	CD	---	1.3	***REGIONAL***
17	22:30:47	37.516	115.737	0.5	2.02	1.6	129	BC	---	2.1	TEMPIUTE MTN
18	1:44:08	36.708	116.224	0.5	1.45	0.9	219	AD	---	0.8	SPECTER RANGE NW
19	15:38:34	37.122	116.880	0.3	7.02	1.2	103	AB	---	1.1	SPRINGDALE
19	15:50:58	36.675	116.188	1.2	3.83	3.2	289	BD	---	0.5	SPECTER RANGE NW
20	7: 7:23	37.168	117.970	20.9	7.00*	---	265	DD	---	1.3	WAUCOBA SPRING
20	12:16:31	36.325	117.013	0.5	0.93	6.4	196	DD	---	0.9	EMIGRANT CANYON
21	15:40:22	37.069	116.624	0.5	9.56	0.6	181	AD	---	1.0	THIRSTY CANYON SE
23	17: 3:46	36.038	116.445	3.7	22.26	1.9	240	CD	---	1.2	EAGLE MTN
23	20:37:55	37.289	116.889	1.6	8.16	4.6	278	BD	---	1.2	BLACK MTN SW
26	2:14:58	37.613	117.448	0.3	6.58	6.9	122	AB	---	1.1	MONTEZUMA PEAK SW
28	10:50:24	37.338	116.694	1.0	3.20*	---	270	CD	---	0.8	BLACK MTN SW
29	7: 1:46	36.332	116.144	0.6	13.58	1.9	158	AC	---	1.2	HIGH PEAK
30	2:21:22	37.217	116.444	0.4	12.77	0.9	208	AD	---	1.0	SCRUGHAM PEAK
30	23:34: 2	36.631	118.238	0.3	7.72	0.8	130	AB	---	1.1	SPECTER RANGE NW
FEB 1	22: 2:35	37.828	117.843	1.8	7.63	8.8	231	CD	---	1.2	WAUCOBA SPRING
2	9:42: 9	37.463	115.524	0.7	5.34	3.4	183	BD	---	1.2	GROOM RANGE NE
3	0:44:30	36.703	116.278	0.5	7.88	0.8	190	AD	---	1.3	STRIPED HILLS
3	3:21:48	37.452	115.545	1.4	3.98*	---	148	CC	---	1.1	GROOM RANGE NE
3	6:53:35	36.681	116.278	0.4	10.50	0.5	198	AD	---	1.0	STRIPED HILLS
4	21:18:49	37.307	117.572	0.3	5.54	1.0	74	AB	---	1.3	MAGRUDER MTN
4	22:26:18	37.306	117.568	0.3	1.56	0.8	73	AC	---	1.3	MAGRUDER MTN
6	4: 9:57	37.695	115.849	0.4	3.78	3.0	115	BC	---	1.3	MIKO NE
6	8:16:58	36.688	116.284	0.4	10.60	0.4	197	AD	---	0.6	STRIPED HILLS
6	11: 1:39	36.695	116.282	0.5	9.20	0.5	192	AD	---	1.2	STRIPED HILLS
6	22: 3:57	37.389	114.923	0.0	5.40	4.2	210	BD	---	1.1	DELAMAR LAKE
7	7:43:43	37.221	116.883	0.5	0.60	0.4	284	AD	---	0.9	SPRINGDALE
7	8:19:49	37.881	116.188	1.5	3.36*	---	301	CD	---	1.4	***REGIONAL***
8	13:40:13	37.348	115.910	0.3	1.49	0.9	98	BC	---	1.7	GROOM MINE SW
8	16:34:22	37.583	117.768	5.2	19.30	6.7	280	DD	---	1.2	PIPER PEAK
8	23:20: 7	36.001	116.628	95.0	11.50*	---	335	DD	---	1.4	BIG DUNE
9	4:43:46	36.427	117.856	1.0	5.81*	---	275	CD	---	1.6	KEELER
9	8:35:34	37.299	117.865	1.8	7.05	3.4	220	BD	---	1.3	SOLDIER PASS
9	10:11:54	37.020	116.732	0.6	3.81*	---	136	CC	---	1.0	THIRSTY CANYON SW
9	21:37:42	37.296	117.877	0.8	5.59	2.0	207	BD	---	1.7	SOLDIER PASS
11	18:18:42	36.886	116.450	0.6	0.01	1.1	243	AD	---	0.8	LATHROP WELLS NW
21	20:25:28	37.686	115.179	1.3	15.88	1.7	136	BC	---	1.3	FOSSIL PEAK
21	23:20:16	37.216	116.822	1.5	8.73	4.8	70	DB	0.9	1.5	THIRSTY CANYON NE
23	1:52:40	37.236	117.618	1.4	7.49	0.8	178	BC	---	1.1	LAST CHANCE RANGE
23	18:34:58	37.213	117.882	0.2	9.81	0.3	180	AC	---	1.3	LAST CHANCE RANGE
23	23:30:51	36.645	116.234	0.7	5.74	1.1	236	AD	---	0.6	SPECTER RANGE NW
24	14:33:49	37.228	116.496	0.2	0.54	0.3	103	AC	---	1.4	SCRUGHAM PEAK
24	17:28:23	36.704	116.291	0.3	0.01	0.0	180	AC	0.9	0.9	STRIPED HILLS
24	21:10:58	37.566	116.048	1.3	0.10	1.2	193	BD	---	0.9	BELTED PEAK
25	4:36: 5	38.979	118.171	4.2	-1.10	0.7	279	CD	---	2.0	***REGIONAL***
25	9:27:24	37.878	118.020	5.1	0.35	4.1	284	DD	---	1.4	***REGIONAL***

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1984 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
FEB 27 3:14:18	37.227	117.383	0.7	1.34	2.3	84	BB	---	0.9	UBEHEBE CRATER
27 5:17:12	37.314	117.848	1.4	1.59	2.3	209	BD	---	1.2	SOLDIER PASS
28 21:20:37	37.235	116.490	1.3	5.14	4.6	169	BC	---	0.7	SCRUGHAM PEAK
29 3:55: 4	35.892	116.834	9.1	0.89	6.7	310	DD	---	1.4	WINGATE WASH
29 5:31:22	35.891	116.830	1.7	0.85	1.3	268	BD	---	1.4	WINGATE WASH
29 12:44:43	37.095	116.315	0.6	8.07	0.6	203	AD	---	0.9	BUCKBOARD MESA
29 18:57:48	37.379	117.725	1.2	14.25	2.6	143	BC	---	0.9	MAGRUDER MTN
MAR 1 3:19:28	35.845	116.857	1.3	2.14	2.2	278	CD	---	2.1	WINGATE WASH
1 3:40:37	35.887	116.836	4.0	0.00	2.8	268	CD	---	1.5	WINGATE WASH
1 6:31:54	37.232	116.900	0.7	1.02	2.1	157	BC	---	0.9	THIRSTY CANYON NE
1 11: 6:10	35.883	116.843	1.5	5.07	3.4	268	BD	---	1.5	WINGATE WASH
1 11:50:23	35.884	116.820	14.6	0.11*	---	312	DD	---	1.2	WINGATE WASH
1 15:24:52	35.886	116.820	13.6	0.14	9.9	311	DD	---	1.3	WINGATE WASH
2 4:20:16	37.733	115.292	0.7	6.83	1.0	152	AC	---	1.0	MT IRISH
3 3:49:24	35.906	116.828	26.7	0.51*	---	307	DD	---	1.3	WINGATE WASH
3 5: 0:13	37.504	116.056	0.5	0.22	0.7	135	BC	---	1.3	BELTED PEAK
3 10: 3:18	37.427	117.100	0.3	5.91	2.3	82	BC	---	1.5	SCOTTYS JUNCTION NE
3 19: 2:33	35.887	116.822	9.1	-0.21	6.6	312	DD	---	1.3	WINGATE WASH
3 21: 7:37	35.882	116.819	5.6	0.41	6.3	313	DD	---	1.4	WINGATE WASH
4 0: 0:17	35.920	116.823	1.4	-1.19	0.8	245	BD	---	1.3	WINGATE WASH
6 16:35:26	37.097	115.391	2.0	11.99	3.3	186	BD	---	1.1	DESERT HILLS SW
6 16:59:33	37.125	115.389	0.5	6.04	3.0	115	BC	---	1.6	DESERT HILLS NW
6 21:44:58	36.864	116.263	2.5	0.52	1.4	259	CD	---	0.6	STRIPED HILLS
8 20:14:54	37.148	116.748	---	2.88	---	274	AD	---	1.9	THIRSTY CANYON NW
9 4:11:55	37.188	117.389	0.4	5.30	2.6	112	BC	---	1.3	UBEHEBE CRATER
9 6:11:47	37.385	115.064	0.5	0.97	0.7	155	AC	---	1.4	ALAMO NE
9 13:30:46	37.046	116.032	0.7	7.84	1.5	153	BC	---	1.4	YUCCA FLAT
9 17:19:13	37.278	116.332	0.3	5.97	3.4	44	BC	2.5	2.7	DEAD HORSE FLAT
10 12:15: 2	36.763	116.034	0.7	7.74	2.3	196	BD	---	1.3	CANE SPRING
10 18:18:40	37.293	115.130	0.6	6.49	2.6	155	BC	---	1.5	ALAMO
11 1:50:34	36.727	115.702	1.2	8.13	1.1	195	BD	---	1.1	INDIAN SPRINGS NW
11 5:14:50	37.087	115.391	1.0	10.35	1.9	219	AD	---	1.1	DESERT HILLS SW
11 7:34:28	36.750	116.265	0.6	0.81	0.4	173	AC	---	0.5	JACKASS FLATS
11 14: 4:42	36.748	116.248	0.3	0.95	0.4	176	AC	---	1.0	SPECTER RANGE NW
15 4:30:15	37.387	115.216	0.8	8.63	3.2	93	BB	---	1.5	ASH SPRINGS
15 22: 9:49	37.119	116.935	0.4	8.82	0.6	211	AD	---	1.1	SPRINGDALE
16 2:47:18	37.082	115.059	0.9	1.75	2.9	163	BC	---	1.1	HIKO NE
16 6:55:27	36.842	116.265	0.4	6.63	0.5	140	AC	---	1.0	SKULL MTN
16 7:28: 7	37.066	115.334	0.6	10.05	1.7	111	AB	---	1.0	MT IRISH
16 10:50:39	37.090	115.201	0.4	2.92	3.0	94	AB	---	1.0	FOSSIL PEAK
16 11:52:40	37.702	115.047	0.8	1.56	2.6	117	BC	---	1.3	HIKO NE
17 13:19: 9	37.055	116.190	1.7	2.49	5.3	232	CD	---	1.4	REVEILLE PEAK
17 17:18:29	37.284	116.338	0.5	-0.20	1.4	45	DC	2.4	2.6	DEAD HORSE FLAT
18 17: 7:45	36.773	116.275	0.4	0.51	0.3	186	BB	---	1.5	JACKASS FLATS
20 10:50:38	37.835	115.193	0.5	5.46	1.5	129	AB	---	1.5	SEAMAN WASH
21 7: 0:35	35.958	117.019	2.8	1.35	5.8	258	CD	---	1.4	MANLY PEAK
21 15:45: 2	36.879	116.203	0.3	5.81	1.8	41	BB	---	1.9	SPECTER RANGE NW
21 15:48:32	36.885	116.229	1.0	11.55	0.8	229	BD	---	0.8	SPECTER RANGE NW
21 15:52:57	36.688	116.198	0.3	11.00	1.0	110	BB	---	1.5	SPECTER RANGE NW
21 20:39:54	36.736	116.245	0.9	0.91	0.4	192	BD	---	0.8	SPECTER RANGE NW
22 10:38:56	36.794	116.723	28.4	0.04*	---	333	DD	---	1.0	BARE MTN
23 18:59:50	36.759	116.210	0.2	5.25	0.2	230	AD	---	0.4	SKULL MTN
23 23:57:49	37.076	116.216	0.5	6.98	0.7	160	AC	---	0.6	TIPPIPAH SPRING
25 1:23: 1	37.217	117.599	3.0	10.97	1.4	162	CC	---	0.9	LAST CHANCE RANGE
25 21:57:19	37.238	114.489	1.3	8.04	0.9	252	CD	---	2.0	***REGIONAL***
26 22:12: 9	36.794	116.769	13.0	3.57*	---	337	DD	---	1.5	BULLFROG
28 0: 1:47	37.302	117.819	9.3	10.55*	---	202	DD	---	0.2	SOLDIER PASS
30 7:23:30	36.903	117.783	1.0	2.79	7.0	218	CD	---	1.0	WAUCOBA WASH
30 7:30:47	37.011	117.772	1.0	1.11	2.2	206	BD	---	1.0	WAUCOBA SPRING
31 1:50:20	37.274	117.784	0.9	3.85	5.0	200	CD	---	1.1	SOLDIER PASS
31 3:44:12	37.169	115.136	0.4	7.00**	1.3	145	BC	---	2.4	LOWER PAHRANAGAT LAKE NW
31 5:17:37	37.009	117.545	1.1	2.93	4.5	174	BC	---	1.4	LAST CHANCE RANGE
APR 1 3:12:20	36.842	116.245	1.0	2.90	1.9	114	BB	---	0.4	SKULL MTN
2 19:45:21	37.141	115.126	1.0	6.70	0.5	241	BD	---	1.5	LOWER PAHRANAGAT LAKE NW
3 10:24:14	37.491	116.861	0.3	9.71	1.4	154	AC	---	1.0	TOLICHA PEAK
3 13:47:32	36.647	116.269	1.1	1.07*	---	271	CD	---	0.8	STRIPED HILLS

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1984 LOCAL HYPOCENTER SUMMARY

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APR 4 9: 8: 5	37.486	116.980	0.3	5.05	2.9	144	BC	---	1.3	TOLICHA PEAK
4 11:41:59	37.161	117.429	0.4	9.65	1.3	136	AC	---	0.9	UBEHEBE CRATER
5 10: 2: 2	37.048	116.741	0.2	8.33	1.2	77	AC	---	1.4	THIRSTY CANYON SW
8 2:13:41	36.887	116.312	0.4	3.38	0.8	172	AC	---	0.3	STRIPED HILLS
9 15:26:42	37.158	116.289	0.4	3.18*	---	136	CC	---	1.1	AMMONIA TANKS
11 11:37:17	36.847	116.050	0.3	2.81	1.7	116	BC	---	1.2	CHLORIDE CLIFF
11 15: 6:26	37.210	116.455	0.4	9.38	0.9	195	AD	---	1.2	SCRUGHAM PEAK
12 1:11:31	36.880	116.318	0.6	11.08	0.6	171	AC	---	0.3	STRIPED HILLS
12 22:27:48	37.234	115.817	0.8	8.52	2.1	214	BD	---	1.5	LOWER PAHRANAGAT LAKE
13 9:26: 5	37.342	117.243	0.5	0.18	0.3	140	AC	---	1.0	SCOTTYS JUNCTION SW
14 8: 2:57	36.958	117.433	0.5	7.35	1.2	156	BC	---	1.2	TIN MTN
14 23:24:45	36.922	117.408	0.4	6.25	1.1	178	AC	---	1.3	TIN MTN
15 22: 1:53	37.483	115.591	0.6	5.90	2.6	126	BC	---	1.4	GROOM RANGE NE
16 2:15:12	37.523	115.323	0.7	4.65	7.9	169	CC	---	1.1	MT IRISH
16 4:34:31	37.481	115.965	0.3	2.40	1.2	92	BC	1.8	1.8	GROOM MINE NW
16 12: 2: 7	37.084	114.892	7.7	13.96	7.2	279	DD	---	1.2	DEADMAN SPRING
17 23:32:16	37.205	117.909	4.3	8.62*	---	225	CD	---	1.3	WAUCOBA SPRING
17 23:53:22	37.251	114.781	6.8	1.66*	---	304	DD	---	1.4	ELGIN SW
18 17:44:37	37.721	115.601	0.7	2.88	1.6	137	BC	---	1.6	NIKO NE
18 23:36: 7	37.155	117.398	0.2	6.41	1.0	128	AC	---	1.3	UBEHEBE CRATER
19 0:34:30	37.158	117.397	0.3	4.77	2.9	129	BC	---	1.0	UBEHEBE CRATER
19 9:37:25	37.143	117.837	1.3	2.05	2.1	211	BD	---	1.1	WAUCOBA SPRING
22 2:47:32	36.384	117.224	0.7	1.49	1.7	238	AD	---	1.4	EMIGRANT CANYON
22 3:23:28	37.242	117.550	0.2	9.67	0.4	188	AB	---	1.6	LAST CHANCE RANGE
22 13:44:52	36.634	115.694	0.4	-0.26	1.0	79	BC	---	1.9	INDIAN SPRINGS NW
22 19:52:50	36.639	115.760	0.7	-0.73	0.6	198	BD	---	0.9	MERCURY NE
24 0:13:43	37.378	117.692	1.6	7.09	5.7	142	CC	---	0.9	MAGRUDER MTN
26 5:33:57	36.621	116.231	1.9	6.88	1.6	301	BD	---	1.0	SPECTER RANGE SW
26 8:15:15	37.695	115.647	0.8	1.08	3.0	115	BC	---	1.1	NIKO NE
27 7:21:49	36.742	116.184	0.5	1.74	0.8	226	AD	---	0.9	SPECTER RANGE NW
28 21:49:41	37.125	117.429	0.3	0.35	0.8	136	AC	---	1.7	UBEHEBE CRATER
29 22:38:41	37.298	115.114	0.8	0.35	1.0	160	BC	---	1.3	ALAMO SE
30 0:54:13	36.747	115.647	0.5	-1.16	0.7	133	BC	---	1.5	INDIAN SPRINGS NW
MAY 2 19:40:24	37.064	116.144	0.4	2.90	0.8	149	AC	---	1.1	TIPPIPAH SPRING
3 0:11: 7	36.787	116.218	0.5	1.43	4.1	222	BD	---	0.6	SPECTER RANGE NW
3 14:55:45	35.873	116.854	3.2	5.16	5.2	270	CD	---	1.4	WINGATE WASH
4 2:19:24	37.235	117.544	---	12.41	---	164	AD	---	0.9	LAST CHANCE RANGE
5 21:56:47	36.115	115.744	0.8	7.57	3.1	210	BD	---	1.6	MOUNTAIN SPRINGS
6 16:54:12	36.763	116.226	0.8	1.54	1.4	190	BD	---	1.0	SKULL MTN
6 19:34:36	36.742	116.281	0.7	4.35	0.7	234	AD	---	0.6	STRIPED HILLS
7 8:55:40	36.495	116.290	0.3	7.78	1.3	115	AC	---	1.0	ASH MEADOWS
7 10:16:19	36.674	116.292	0.7	5.87	0.7	220	AD	---	0.8	STRIPED HILLS
7 15:14:31	36.671	117.595	0.6	5.91	2.6	233	BD	---	1.5	UBHEBE PEAK
7 23:56:23	36.683	116.865	1.9	11.58	3.2	209	BD	---	1.2	SPECTER RANGE SE
8 .7: 4: 2	37.589	115.621	0.6	4.09	2.5	112	BC	---	1.3	TEMPIUTE MTN
9 4:10:33	37.677	116.218	0.4	5.13	1.5	168	AC	---	1.2	TIPPIPAH SPRING
9 12:23:60	37.132	116.089	1.3	7.27	1.6	161	BC	---	0.9	OAK SPRING
12 15:26:11	37.693	115.045	0.3	1.39	1.2	115	AC	---	0.9	NIKO NE
12 21:10:37	36.465	116.461	1.6	5.38	2.6	261	BD	---	0.8	LATHROP WELLS NW
12 21:23:55	36.725	116.118	0.8	4.93	2.5	195	BD	---	1.0	CAMP DESERT ROCK
13 8:20:49	37.885	117.129	0.5	2.52	4.0	130	BC	---	1.4	GOLDFIELD
13 8:29:32	37.163	117.409	0.5	5.56	2.9	122	BC	---	1.5	UBEHEBE CRATER
13 13: 2: 1	37.588	117.123	0.3	3.31*	---	97	CC	---	1.6	GOLDFIELD
13 18:35:25	36.869	116.257	0.7	4.60	1.4	135	AB	---	0.3	JACKASS FLATS
16 9: 8:42	37.691	115.044	0.6	2.10	1.6	115	BC	---	0.8	NIKO NE
17 6:26:18	36.720	115.904	2.1	1.76	6.5	167	CC	---	1.0	MERCURY
17 17:12:24	35.773	117.965	1.4	1.99	1.4	292	BD	---	2.0	LITTLE LAKE
18 0:47:12	36.620	115.531	1.5	8.32	5.2	204	CD	---	1.4	INDIAN SPRINGS SE
18 1:47:20	36.441	117.922	1.5	9.87	1.2	242	BD	---	2.1	KEELER
18 13:14:21	36.522	115.690	1.7	3.24*	---	141	CC	---	1.0	INDIAN SPRINGS
19 8:13:46	36.711	116.240	0.6	1.64	2.3	120	BB	---	0.6	SPECTER RANGE NW
19 12: 7: 7	37.231	115.836	1.1	5.69	1.7	201	CD	---	1.9	WAUCOBA SPRING
21 22:04:30	36.840	116.192	1.0	2.90	1.1	159	AC	---	0.7	SKULL MTN
22 19:14:23	37.052	116.478	0.7	1.48	1.0	280	AD	---	1.0	TIMBER MTN
23 11:18:50	37.716	115.014	0.4	-0.79	1.2	131	BB	---	1.6	NIKO NE
23 14: 3:19	37.148	116.951	0.7	9.87	2.3	163	BC	---	1.0	SPRINGDALE

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MAY 23 18:54: 3	36.794	116.751	10.6	0.12*	---	335	DD	---	1.4	BULLFROG
24 13:45:17	37.292	114.945	1.1	5.67	3.6	205	BD	---	1.5	DELAMAR LAKE
24 14:59:13	37.190	117.485	0.2	-0.89	0.4	112	AC	---	1.8	UBEHEBE CRATER
25 2: 5:21	36.709	116.236	3.4	0.81	0.8	122	AC	---	1.6	SPECTER RANGE NW
25 9:43:47	37.081	116.183	0.1	5.83	0.1	192	AD	---	0.7	TIPPIPAH SPRING
25 18: 8:23	38.068	116.771	---	1.10	---	294	AD	---	1.1	WINGATE WASH
25 16:44:46	37.094	116.012	0.8	10.79	1.6	177	AC	---	1.2	YUCCA FLAT
26 5:35: 4	37.460	114.939	---	7.00**	---	309	AD	---	0.9	DELAMAR NW
26 5:39:40	37.700	115.010	1.5	6.19	3.9	130	BB	---	0.7	HIKO NE
26 14:13:56	36.712	116.217	0.5	4.29	4.0	120	BC	---	1.1	SPECTER RANGE NW
29 10: 0:49	36.702	116.109	0.5	8.22	1.5	144	AC	---	0.9	CAMP DESERT ROCK
29 18:32:29	36.427	116.910	4.0	10.81	8.9	193	CD	---	1.2	FURNACE CREEK
31 2:11:36	37.763	116.000	0.8	1.04	2.3	151	BC	---	1.4	REVEILLE PEAK
31 19:55:12	36.850	117.410	1.0	11.55	1.0	195	BC	---	1.3	TIN MTN
JUN 1 16:28:52	36.323	117.295	2.6	2.61	9.2	257	CD	---	1.4	PAHAMINT BUTTE
2 6:35:23	37.233	114.881	1.4	10.45	1.0	243	BD	1.9	1.0	VIGO NE
3 15:30:14	37.638	116.386	25.3	3.12	0.4	309	DD	2.1	---	***REGIONAL***
4 9: 5:45	37.087	116.035	0.8	7.81	2.1	179	BC	---	0.8	YUCCA FLAT
7 21:13:32	37.623	114.476	99.0	2.59*	---	351	DD	---	1.3	***REGIONAL***
8 21:14:35	37.018	116.186	0.2	2.99	0.4	93	AD	---	1.4	TIPPIPAH SPRING
10 1:19:40	37.230	117.306	0.4	7.88	0.5	132	AD	---	1.0	UBEHEBE CRATER
10 10: 4: 9	37.195	117.487	0.6	8.97	1.1	196	AC	---	1.1	UBEHEBE CRATER
13 12:40:12	36.637	116.338	0.5	4.14	0.7	187	AC	---	1.2	STRIPED HILLS
15 9:23:36	37.548	115.768	0.5	5.52	0.0	116	CC	1.4	---	WHITE BLOTCH SPRINGS
16 17:57:38	36.681	116.393	0.8	5.46	1.6	195	AD	---	0.8	LATHROP WELLS NW
17 20:31:35	38.147	117.805	3.5	8.85	1.3	259	CD	2.5	---	COALDALE NE
18 3:39:30	36.698	115.888	0.4	6.54	1.0	120	AB	1.7	1.6	INDIAN SPRINGS NW
18 23: 2:47	36.724	116.058	1.4	3.90	9.0	183	CC	0.7	0.9	CAMP DESERT ROCK
21 12:38:41	36.720	116.272	0.3	0.51	0.1	183	AD	---	0.5	STRIPED HILLS
23 7:44:38	37.345	117.342	0.7	0.21	0.8	148	BC	1.1	0.9	GOLD POINT
23 8:11:25	37.285	117.403	0.8	0.76	1.4	141	AC	1.2	---	GOLD POINT SW
23 8:42:23	37.352	117.348	0.7	2.58	1.5	150	BC	1.1	1.1	GOLD POINT
23 10: 7:11	37.336	117.344	1.3	4.82	2.6	144	BC	---	1.2	GOLD POINT
23 14:20:22	37.295	117.378	0.6	-0.85	0.8	131	AC	1.1	0.9	GOLD POINT SW
23 15: 7:45	37.335	117.340	1.5	5.65	1.9	144	BC	1.1	1.2	GOLD POINT
24 3:47:20	37.246	115.470	0.5	0.73	0.9	105	BC	---	1.5	DESERT HILLS NW
24 13:50:22	36.760	116.278	0.5	5.53	0.5	115	AB	---	0.6	JACKASS FLATS
26 5:27:15	36.770	116.049	1.0	6.35	2.0	190	BD	---	0.9	CANE SPRING
26 5:28:39	36.777	116.057	0.8	7.17	1.6	198	AD	---	0.8	CANE SPRING
26 18:13:48	36.705	116.201	0.2	9.11	0.6	72	AA	---	1.7	STRIPED HILLS
26 18:57:37	36.647	116.277	0.7	7.77	0.4	206	AD	---	0.8	STRIPED HILLS
26 19:28:25	36.701	116.273	0.3	9.00	0.4	125	AB	---	0.8	STRIPED HILLS
27 9:52:25	36.700	116.272	0.4	10.07	0.6	120	AB	---	0.9	STRIPED HILLS
29 8:13:58	37.209	115.075	0.3	4.75	5.7	140	CC	---	1.2	JANGLE RIDGE
30 12:14:36	36.727	116.114	0.4	5.54	1.6	137	AC	---	0.5	CAMP DESERT ROCK
JUL 1 12:11:38	37.149	116.947	0.2	10.01	0.6	119	AC	---	1.2	SPRINGDALE
2 0: 0:18	36.783	116.204	0.2	2.42	0.3	102	AB	---	0.5	SKULL MTN
2 19:25:17	36.985	117.000	0.8	5.76	3.4	189	BD	---	1.9	DRY MTN
3 12:31:10	36.828	116.124	0.6	7.91	2.3	101	BB	---	0.8	CAMP DESERT ROCK
4 22:54:32	36.791	115.898	0.4	13.41	0.6	244	AD	---	0.8	FRENCHMAN FLAT
4 23: 4:57	36.791	115.889	0.5	13.30	0.7	185	AD	1.1	1.1	FRENCHMAN FLAT
4 23: 6:14	36.785	115.895	0.7	14.04	0.9	198	AD	1.6	2.0	FRENCHMAN FLAT
5 8: 4:27	37.127	116.264	0.3	5.65	1.1	224	AD	---	0.9	AMMONIA TANKS
5 13:39:57	37.129	116.264	0.4	7.02	0.8	224	AD	---	0.9	AMMONIA TANKS
5 18:58:21	37.122	116.252	0.3	6.68	1.2	118	AB	---	1.7	BUCKBOARD MESA
5 20:33:37	37.126	116.237	1.3	10.24	1.8	271	BD	---	1.1	RAINIER MESA
6 3:14:57	37.126	116.259	0.8	8.05	0.9	226	AD	---	0.8	AMMONIA TANKS
6 3:52:12	37.127	116.251	0.5	9.77	0.6	229	AD	---	0.6	AMMONIA TANKS
6 4:31:53	37.129	116.278	0.7	8.65	1.8	147	BC	---	1.1	AMMONIA TANKS
6 4:32:48	37.122	116.264	0.4	5.66	2.0	75	BB	---	1.0	BUCKBOARD MESA
6 8: 2:52	37.122	116.270	0.4	7.26	0.7	212	AD	1.0	1.1	BUCKBOARD MESA
6 23:41:18	37.104	116.978	0.2	12.08	0.4	101	AB	1.1	1.3	SPRINGDALE
7 9:58:51	36.747	116.275	0.4	7.93	0.4	136	AC	0.7	0.4	STRIPED HILLS
7 9:59:15	36.791	116.277	0.3	7.55	0.3	118	AB	0.6	0.7	JACKASS FLATS
7 16:41:25	37.439	116.897	0.2	2.09	1.4	134	AC	1.3	1.2	TOLICHA PEAK
8 7:36:24	37.128	116.266	0.4	6.98	1.1	126	AB	1.1	1.2	AMMONIA TANKS

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1984 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUL 9 16:33:30	36.403	116.925	0.5	12.21	1.2	108	AB	1.2	1.4	FURNACE CREEK
9 17:41: 2	36.981	117.099	0.2	0.47	0.3	90	AB	1.4	1.6	GRAPEVINE PEAK
10 5:43:21	37.071	116.048	0.5	-0.76	0.7	140	BC	1.0	1.5	YUCCA FLAT
10 17:17:41	36.985	116.481	0.4	2.03*	---	261	DD	0.5	0.6	TOPOPAH SPRING NW
11 9:49:57	36.404	116.929	0.8	12.91	1.7	107	BB	0.8	0.8	FURNACE CREEK
11 16:48: 9	36.882	116.833	0.6	14.83	0.8	211	AD	0.7	0.8	YUCCA LAKE
11 19: 0:20	36.443	116.883	0.6	6.12	5.2	120	CC	0.9	1.0	FURNACE CREEK
12 2:51:59	38.175	116.717	1.1	1.85	3.4	193	BD	1.5	1.6	STONE CABIN VALLEY
12 3:29:15	37.120	116.282	0.5	3.93	1.9	215	AD	0.7	0.3	AMMONIA TANKS
12 17:29:20	36.001	117.746	1.0	1.50	4.7	200	BD	1.7	2.0	DRY MTN
14 16: 4:41	37.372	117.682	0.2	11.27	0.5	138	AC	1.1	0.8	MAGRUDER MTN
14 16:22:32	37.380	117.700	1.5	7.88	4.2	144	CC	1.1	1.1	MAGRUDER MTN
14 16:48:26	37.389	117.706	1.1	5.58	5.3	148	CC	1.2	1.0	MAGRUDER MTN
14 16:53: 2	37.380	117.693	1.0	6.00	4.8	143	BC	1.1	1.1	MAGRUDER MTN
14 19:59:23	37.163	117.405	0.7	7.22	4.1	119	BC	1.4	1.3	UBEHEBE CRATER
15 19:15:33	36.478	115.952	0.2	11.02	0.9	120	AB	1.3	1.7	MT STIRLING
17 12:22: 7	37.306	114.601	1.0	5.32	1.4	214	BD	2.4	2.4	ELGIN SW
17 13:32:56	37.168	117.404	0.9	11.28	2.2	167	BC	0.8	0.9	UBEHEBE CRATER
17 13:48:43	37.163	117.406	0.6	7.99	2.2	169	BC	1.5	1.5	UBEHEBE CRATER
17 14:55:28	37.156	117.422	0.5	6.94	2.7	174	BC	0.9	1.0	UBEHEBE CRATER
17 15:57:41	37.501	115.779	0.4	6.54	1.2	103	AB	1.5	1.5	WHITE BLOTCH SPRINGS
17 19: 3:49	37.302	117.739	0.6	3.10*	---	146	CD	0.9	1.2	MAGRUDER MTN
17 22:17:24	36.889	116.253	0.4	4.01	1.2	141	AC	0.8	0.7	STRIPED HILLS
17 23:14:16	36.025	116.215	0.4	7.88	0.7	155	AC	0.5	0.7	SKULL MTN
18 8: 7:43	37.701	115.051	0.5	0.17	0.8	115	AC	1.4	1.3	HIKO NE
18 9:31:18	37.138	116.389	0.2	5.06	1.0	131	AB	1.1	1.0	SCRUGHAM PEAK
18 19: 0:32	37.326	117.448	1.0	16.67	1.8	141	BC	1.0	0.9	GOLD POINT SW
18 20:12:26	36.873	117.385	0.6	12.21	0.8	135	AB	0.6	1.2	TIN MTN
18 21: 7:42	37.683	117.489	0.4	12.38	1.5	142	AC	1.2	1.2	UBEHEBE CRATER
19 7:57:59	36.472	116.316	0.2	3.12*	---	139	CC	0.7	0.8	ASH MEADOWS
19 14:23:35	37.298	117.466	1.6	11.95	5.3	157	CD	1.1	1.0	GOLD POINT SW
20 8:17:54	38.235	115.955	1.5	-0.54	1.5	287	CD	1.8	1.9	QUINN CANYON RANGE
20 9:57:20	37.169	117.464	0.7	6.03	4.2	119	BC	1.4	1.4	UBEHEBE CRATER
24 2: 3:47	36.648	115.930	1.3	7.69	6.7	331	BD	0.5	0.8	MERCURY
24 9:26: 7	36.679	116.249	1.0	1.74	3.0	213	CD	0.6	0.5	SPECTER RANGE NW
26 2: 3:36	37.344	117.077	0.5	5.79	3.0	74	BC	1.2	1.2	SCOTTYS JUNCTION
26 5:51:16	37.271	116.379	1.6	9.38	5.0	187	CC	2.3	---	SILENT BUTTE
26 14:31:22	38.286	117.874	2.2	3.27*	---	287	CD	1.8	1.4	COALDALE NE
26 14:31:27	37.132	116.282	1.0	2.23	1.0	295	BD	0.7	0.7	AMMONIA TANKS
26 19: 9: 8	38.357	117.322	2.3	8.68	5.4	249	CD	2.2	---	SAN ANTONIA RANCH
27 9:38: 9	37.678	115.861	0.3	2.50	1.0	169	AC	1.1	1.0	HIKO NE
27 15:42:35	37.474	116.763	1.9	11.41	7.8	123	CB	1.3	1.0	TOLICHA PEAK
29 16: 6:23	38.200	117.859	3.4	9.74	2.5	265	CD	2.2	1.8	COALDALE NE
30 13: 7:11	37.271	116.403	0.4	0.32*	---	93	CC	2.3	2.4	SILENT BUTTE
30 19:32:23	36.824	116.197	2.7	7.00**	3.4	177	CC	0.1	0.1	SKULL MTN
30 19:34:51	36.848	116.193	0.8	8.98	1.1	98	BB	0.8	1.1	SKULL MTN
31 20:53:35	36.783	116.788	3.0	1.84*	---	342	CD	1.1	1.0	BULLFROG
31 21:57:24	37.333	117.771	0.6	1.68	1.6	176	BD	0.6	1.2	SOLDIER PASS
AUG 1 2: 1:44	37.002	117.903	2.1	0.85	1.8	258	BD	1.4	1.3	WAUCOBA SPRING
1 2:37:39	37.302	117.626	0.6	4.36	1.9	185	AB	0.9	0.8	MAGRUDER MTN
1 11:49:55	37.024	116.366	0.8	4.72	3.8	225	BD	0.5	0.3	BUCKBOARD MESA
3 7: 0:45	37.091	117.612	1.2	3.33	2.7	227	BD	1.8	1.7	SILVER PEAK
4 0:31:19	37.820	115.033	1.0	1.04	3.0	157	BC	0.8	0.6	WHITE RIVER NARROWS
4 3:19: 9	36.604	116.273	0.7	8.68	1.1	231	AD	0.4	0.8	LATHROP WELLS SE
4 5: 4:53	36.630	116.232	0.4	8.42	0.6	72	AA	1.0	1.0	SKULL MTN
4 10:49:24	37.331	114.922	1.4	11.86	2.1	204	BD	0.9	0.9	DELAMAR LAKE
5 5:56:15	36.388	117.248	0.8	5.49	1.8	199	BD	1.3	1.3	EMIGRANT CANYON
6 8:11:18	37.170	115.642	1.0	11.55	1.4	208	CD	1.4	1.0	LOWER PAHRANAGAT LAKE
6 12:56:57	36.763	116.167	0.7	8.05	1.8	122	BB	0.7	0.5	SKULL MTN
6 13:18:00	37.304	114.882	1.0	5.61	5.0	213	BD	1.5	1.5	DELAMAR LAKE
7 13:28: 6	37.353	114.886	0.4	11.85	0.9	169	AC	1.8	1.6	DELAMAR LAKE
7 19:31:56	36.644	116.446	1.0	11.35	1.7	180	BC	0.6	0.5	LATHROP WELLS NW
8 1:30: 6	36.674	115.855	0.9	-0.81	1.3	107	BB	1.4	1.1	MERCURY NE
8 7:38:48	36.742	116.252	1.7	7.00**	1.3	155	BC	0.2	0.7	STRIPED HILLS
10 0:41:30	36.231	116.875	0.4	2.02	1.8	282	AD	0.9	1.1	BENNETTS WELL
11 0:27: 8	37.474	114.784	2.1	2.36	4.3	237	BD	0.5	0.5	DELAMAR

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AUG 12 12:24:59	37.118	116.061	1.6	4.49	7.3	235	CD	0.8	0.7	YUCCA FLAT
12 13: 1:50	36.597	116.159	0.3	7.16	1.4	140	AC	0.4	0.7	SPECTER RANGE SW
12 20:28:11	36.553	116.198	0.6	8.49	1.8	86	BD	1.0	0.7	SPECTER RANGE SW
13 7:53:13	36.788	116.289	0.2	7.31	0.3	113	AB	0.5	0.6	STRIPED HILLS
16 21:17:48	37.858	118.018	4.0	0.06	4.3	278	CD	1.9	1.7	***REGIONAL***
19 2:22:35	38.384	118.113	6.9	8.69	2.6	286	BD	---	0.2	***REGIONAL***
19 20:31:19	36.555	116.244	0.3	5.23	2.4	123	BC	1.8	2.2	SPECTER RANGE SW
20 1:51:51	36.832	116.094	3.5	4.88	4.1	293	CD	1.4	1.6	STEWART VALLEY
20 3:38:29	36.554	116.246	0.8	5.40	2.1	189	BD	0.7	1.1	SPECTER RANGE SW
20 7:39:58	36.545	116.267	1.8	2.38	2.3	192	BD	0.9	1.2	LATHROP WELLS SE
22 3:41:25	36.828	116.113	2.3	0.85	1.8	263	BD	1.5	---	STEWART VALLEY
22 8:14: 8	38.387	118.428	2.3	5.45	2.1	238	CD	2.0	2.3	TYBO
23 9: 2:24	36.871	116.115	0.5	1.41	1.4	178	AC	1.6	1.7	CANE SPRING
25 15:19:21	36.833	116.028	5.6	3.90*	---	242	BD	0.3	0.7	CANE SPRING
28 2:33:52	37.648	116.057	---	7.00**	---	267	AD	---	0.2	BELTED PEAK
28 3: 9:46	36.774	116.242	0.3	2.65	0.4	80	AA	---	0.2	SKULL MTN
28 8:10: 1	36.331	116.071	0.3	5.38	1.8	186	AC	1.1	1.0	MT SCHADER SE
28 14:20: 6	37.851	118.113	1.4	5.37	1.8	294	BD	1.6	---	***REGIONAL***
28 16: 0: 9	37.387	115.071	1.4	5.69*	---	133	CC	1.6	---	ALAMO NE
28 16:30:56	37.488	115.092	0.7	8.81	1.8	186	BC	1.6	---	ALAMO NE
28 18:54: 9	37.851	115.614	---	3.21	---	180	AD	1.1	1.4	SOUTHEASTERN MINE
28 20:43:13	37.818	117.951	4.9	-1.18*	---	258	CD	1.7	---	RHYOLITE RIDGE
28 22:22:43	38.443	117.987	2.0	-1.12	5.2	289	CD	1.5	---	KEELER
29 0:32:45	37.384	115.864	0.5	-0.54	0.5	160	AC	1.4	1.5	ALAMO SE
29 4: 9:22	37.151	116.598	0.4	7.74	1.4	177	AC	1.1	1.3	THIRSTY CANYON NE
29 4:13: 3	37.857	116.164	0.3	1.44	1.2	185	AC	1.1	---	REVEILLE PEAK
29 5:37:21	37.668	117.888	4.8	1.05*	---	195	CD	0.8	1.1	PIPER PEAK
29 6: 7:41	37.154	116.698	0.7	10.55	3.1	189	BC	0.8	---	THIRSTY CANYON NE
29 7: 0:15	37.141	116.476	0.3	2.13	0.9	112	AC	1.0	1.2	SCRUGHAM PEAK
30 5:22: 3	38.784	118.198	0.9	5.36	2.4	285	BD	1.7	---	***REGIONAL***
30 8: 1: 1	37.157	116.603	0.5	9.13	2.0	164	AB	1.0	1.2	THIRSTY CANYON NE
30 15:49:49	37.857	116.154	0.7	6.77	4.9	146	BC	0.8	---	REVEILLE PEAK
30 20:41:55	37.644	117.511	0.4	6.66	1.7	178	AC	1.6	2.2	LAST CHANCE RANGE
SEP 1 18:45:34	37.840	118.178	2.0	-0.17	1.4	281	CD	1.8	---	***REGIONAL***
1 18:18:40	37.448	114.592	1.9	8.27	1.2	242	BD	1.8	---	ELIGN NE
2 5: 0:42	37.399	115.078	0.4	9.46	0.7	169	AC	1.4	1.9	ALAMO NE
2 5: 6:31	37.360	115.041	0.7	8.45	5.0	192	CD	1.4	1.4	ALAMO SE
2 11:13:54	36.465	118.040	0.9	3.95	2.0	252	BD	1.7	2.1	***REGIONAL***
2 12: 3:11	37.413	115.088	0.0	7.00**	4.7	182	BD	1.6	1.5	ALAMO NE
2 12:16:12	36.415	117.929	0.8	8.50	5.1	312	CD	2.0	1.5	KEELER
2 12:21: 7	37.371	115.074	0.3	7.86	0.9	173	AC	2.3	2.1	ALAMO SE
2 12:29:48	37.383	115.067	0.5	7.68	3.0	178	BC	1.4	1.4	ALAMO NE
2 16:17: 6	36.696	115.654	0.6	5.18	1.3	241	AD	---	0.8	INDIAN SPRINGS NW
2 23:55:41	36.738	115.658	0.5	5.97	1.5	184	AD	1.6	1.1	INDIAN SPRINGS NW
3 0: 6:38	36.655	115.622	1.0	1.91	0.8	321	AD	---	0.2	HEAVENS WELL
3 5:44: 2	37.697	115.044	0.3	2.82	0.6	146	AC	---	1.0	HIKO NE
3 8:14:41	36.843	116.169	0.2	0.95	0.2	154	AC	1.4	1.3	SKULL MTN
3 19:23:33	36.885	115.558	0.4	6.02	2.7	88	BC	2.1	1.3	HEAVENS WELL
3 21: 7:54	36.987	116.209	0.4	2.34	0.7	182	AD	1.1	0.6	MINE MTN
3 23:47: 6	37.206	117.040	0.2	11.00	0.5	161	AC	---	1.4	LAST CHANCE RANGE
4 0:37:57	36.656	115.963	0.0	3.50*	---	155	CC	---	1.1	HEAVENS WELL
4 8:48:30	36.382	116.982	0.5	12.04	0.9	116	AB	1.6	1.1	FURNACE CREEK
4 13:54: 7	37.272	115.374	7.2	14.75	0.3	128	BC	1.8	---	BADGER SPRING
4 16:49:41	36.702	117.415	0.6	4.97	1.1	247	AD	1.2	1.1	MARBLE CANYON
4 17: 2:51	36.739	117.263	2.7	1.62*	---	157	CD	1.4	1.3	MARBLE CANYON
4 21: 9: 8	36.131	115.889	0.5	7.00**	3.1	217	BD	---	1.6	PAHRUMP
5 5:53:16	37.163	116.596	0.3	3.97	3.6	89	BC	1.6	1.2	THIRSTY CANYON NE
5 5:55:13	37.161	116.597	0.2	5.74	0.6	36	AC	2.1	2.2	THIRSTY CANYON NE
5 5:56: 6	37.161	116.597	0.2	4.73	1.7	84	AC	2.1	2.2	THIRSTY CANYON NE
5 6:18: 5	37.167	116.596	0.2	6.98	0.8	102	AC	---	0.6	THIRSTY CANYON NE
5 10:57:15	37.160	116.593	0.3	6.29	1.4	188	AC	1.3	0.8	THIRSTY CANYON NE
5 20:57:47	37.621	114.833	3.6	2.05	8.9	159	CC	0.6	1.1	PAHROC SUMMIT PASS
6 18:37:28	36.988	116.207	0.7	0.44	0.6	186	AD	1.6	0.6	MINE MTN
7 1:22:20	36.978	116.319	0.2	4.02	0.9	92	AD	---	0.5	TOPOPAH SPRING
7 14:51:39	35.218	117.712	3.3	15.33*	---	315	BD	2.8	---	***REGIONAL***
7 16: 1:13	37.174	117.377	0.2	1.99	0.5	189	AD	0.7	1.0	UBEHEBE CRATER

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1984 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
SEP 7	16: 5:25	37.158	117.382	0.5	8.83	1.4	223	AD	---	0.8	UBEHEBE CRATER
7	16:16:38	37.153	117.390	0.7	8.95	2.4	121	BD	---	0.9	UBEHEBE CRATER
7	16:24:13	37.160	117.377	0.7	5.92	2.0	171	AC	1.2	1.5	UBEHEBE CRATER
7	16:24:50	37.156	117.385	0.2	8.51	0.6	123	AC	---	1.5	UBEHEBE CRATER
7	16:28:20	37.151	117.389	0.2	8.68	0.7	189	AB	2.0	1.9	UBEHEBE CRATER
7	16:36:27	37.156	117.393	0.2	9.40	0.5	189	AB	2.2	1.3	UBEHEBE CRATER
7	16:40:41	37.156	117.384	0.2	9.11	0.5	120	AB	1.7	1.2	UBEHEBE CRATER
7	16:44:12	37.155	117.388	0.2	9.53	0.7	188	AB	1.8	1.5	UBEHEBE CRATER
7	17:13:47	37.158	117.388	0.3	8.25	1.1	188	AC	1.9	1.3	UBEHEBE CRATER
7	17:17:12	37.164	117.405	0.4	10.30	1.3	121	AB	1.1	1.1	UBEHEBE CRATER
7	17:15:42	37.154	117.377	0.3	8.11	1.1	119	AC	---	1.0	UBEHEBE CRATER
7	17:58: 6	36.162	117.132	2.3	7.00*	---	260	DD	---	2.5	TELESCOPE PEAK
8	7: 5:36	35.947	117.348	2.0	7.00**	1.0	262	CD	1.0	---	TRONA
8	11:50:29	37.154	117.386	0.3	10.37	0.8	189	AB	1.5	---	UBEHEBE CRATER
10	2:33: 9	36.784	115.609	0.5	3.79	5.2	293	CD	---	1.4	HEAVENS WELL
10	7:21:43	37.010	116.095	3.0	36.76	3.3	339	CD	1.3	---	SPRINGDALE
10	9:33:57	36.836	116.838	0.6	15.85	0.8	303	AD	1.0	---	BULLFROG
10	10:24:27	36.686	116.297	0.3	-1.05	0.2	125	AB	---	0.8	STRIPED HILLS
10	10:35:45	36.712	115.617	0.8	5.46	5.2	263	CD	1.0	1.9	HEAVENS WELL
12	13: 2:30	37.282	116.340	0.4	11.75	1.4	112	AC	1.9	1.4	DEAD HORSE FLAT
13	13:22:21	37.074	116.041	0.4	4.27	2.1	132	BC	1.6	1.3	YUCCA FLAT
14	6:11: 2	36.758	115.911	0.2	0.74	0.3	117	AC	---	0.8	FRENCHMAN FLAT
14	23: 7:19	36.827	116.428	0.4	9.56	0.5	188	AD	---	0.8	LATHROP WELLS NW
15	7: 0:25	36.438	117.030	0.3	7.27	0.7	115	AB	1.8	1.3	EMIGRANT CANYON
15	22: 0:40	37.312	115.221	0.4	10.00	0.9	114	AB	---	1.3	ALAMO
16	0:49:38	38.958	115.638	0.9	10.03	2.1	291	DD	2.4	---	***REGIONAL***
16	18:42: 3	38.928	115.324	5.0	-0.89	3.0	289	DD	1.8	---	***REGIONAL***
18	3:21:31	37.485	115.428	0.4	10.21	1.9	61	BC	---	1.2	CRESCENT RESERVOIR
18	21:56:19	36.735	116.799	1.3	5.98	2.3	343	BD	---	0.2	CHLORIDE CLIFF
19	1:36:58	37.142	117.944	2.2	2.73	7.4	381	CD	1.0	1.2	WAUCOBA SPRING
19	2:32:30	35.995	114.687	2.1	0.10	1.7	383	BD	2.1	1.7	RINGBOLT RAPIDS
19	2:32:51	35.868	114.719	3.3	2.11	2.9	383	CD	---	1.6	WILLOW BEACH
20	9:34:45	37.227	117.868	0.7	0.12	1.2	212	AD	1.7	---	WAUCOBA SPRING
20	15:43:48	36.628	116.382	0.5	4.31	0.7	247	AD	1.6	0.7	LATHROP WELLS NW
21	5:19:18	37.212	117.863	0.8	5.02	2.9	213	BD	1.3	1.3	WAUCOBA SPRING
21	5:19:29	37.216	117.896	0.5	8.95	1.8	221	AD	1.8	1.3	WAUCOBA SPRING
21	7:19:16	37.162	116.218	0.3	1.85	1.0	122	AC	---	0.9	RAINIER MESA
21	11:20: 7	36.398	117.032	0.7	15.98	1.4	112	AB	0.7	1.2	EMIGRANT CANYON
21	11:20:58	36.392	117.049	0.7	18.89	1.2	126	AB	1.8	1.1	EMIGRANT CANYON
21	13:58:53	37.579	118.072	3.7	13.00	1.7	309	CD	2.4	---	***REGIONAL***
21	20: 0:44	37.934	118.473	19.6	6.38	7.7	256	DD	2.0	---	***REGIONAL***
22	11:38:31	36.695	116.279	0.7	4.08	0.8	218	AD	---	0.9	STRIPED HILLS
22	11:47:31	36.683	116.286	0.4	1.86*	---	215	CD	---	0.8	STRIPED HILLS
22	19:50:56	36.313	118.329	2.4	-1.01	1.8	281	BD	1.8	---	***REGIONAL***
22	22: 3: 4	37.226	116.304	0.2	8.86	0.4	49	AA	1.8	1.3	AMMONIA TANKS
24	1:59:58	37.089	115.184	1.9	11.97*	---	214	CD	1.6	1.5	LOWER PAHRANAGAT LAKE SW
24	2: 0:22	37.088	115.190	0.5	7.00*	---	164	CD	---	1.3	LOWER PAHRANAGAT LAKE SW
24	2:31:13	37.159	117.405	0.3	5.40	2.2	129	BC	0.9	0.9	UBEHEBE CRATER
24	2:31:24	37.194	117.399	0.5	9.85	1.5	125	AC	1.1	0.9	UBEHEBE CRATER
24	11:38:37	37.156	117.404	0.2	4.72	1.7	130	AC	1.9	1.1	UBEHEBE CRATER
24	13:11: 5	36.865	116.171	0.2	3.51	0.3	85	AA	0.9	1.2	SKULL MTN
24	16: 4:13	37.157	117.398	0.3	6.45	1.5	127	AC	1.1	1.1	UBEHEBE CRATER
24	16:19:14	37.159	117.407	0.2	0.49	0.3	123	AC	1.2	1.4	UBEHEBE CRATER
24	17:21:33	37.160	117.404	0.1	2.20	0.3	122	AC	1.9	1.5	UBEHEBE CRATER
24	21:14:16	36.675	116.419	0.3	6.95	0.5	191	AD	0.9	1.1	LATHROP WELLS NW
24	21:14:55	36.672	116.427	0.2	8.89	0.5	119	AB	1.8	0.9	LATHROP WELLS NW
24	22:43:17	37.034	115.860	0.2	-0.12	0.3	117	AC	1.6	1.4	PAIUTE RIDGE
25	18: 8:60	36.682	116.005	1.0	6.35	2.7	387	BD	---	1.6	CAMP DESERT ROCK
26	13:40:51	37.010	115.381	0.7	11.33	1.9	168	AC	1.9	1.6	DESERT HILLS SE
26	19:30:13	37.054	116.165	0.3	2.12	1.9	164	AC	1.4	1.6	REVEILLE PEAK
26	22:21:30	36.731	115.663	0.4	7.49	1.5	150	AC	---	1.3	INDIAN SPRINGS NW
26	22:53:20	37.554	116.414	0.8	10.97	1.4	116	AB	0.4	1.0	MELLAN
26	23:30:12	37.215	118.452	0.3	9.88	1.4	114	AC	2.0	1.4	DESERT HILLS NW
26	23:47:11	37.071	116.033	0.5	4.15	3.8	281	BD	1.1	0.8	YUCCA FLAT
26	23:48:17	37.085	116.051	0.3	2.09	0.8	139	AC	0.9	0.9	YUCCA FLAT
27	0:17:57	37.229	118.456	0.3	1.89	1.6	118	AC	1.9	0.8	DESERT HILLS NW

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1984 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
SEP 27 13:40: 9	36.688	116.224	0.2	-0.85	0.2	71	AB	1.7	1.5	STRIPED HILLS
28 2: 0: 7	37.305	115.348	0.5	1.92	1.6	81	AC	2.1	1.8	BADGER SPRING
28 18:54:60	37.288	117.642	0.3	5.08	0.6	119	AB	1.9	1.2	MAGRUDER MTN
29 10: 9:35	37.287	117.651	0.4	6.00	0.7	128	AB	---	0.9	MAGRUDER MTN
29 10:10: 0	37.294	117.642	0.7	3.81	2.0	118	BB	0.9	0.8	MAGRUDER MTN
29 10:12:47	37.283	117.646	0.3	1.78	0.8	122	AB	---	1.1	MAGRUDER MTN
29 10:36:30	37.288	117.640	0.2	6.43	0.4	117	AB	2.0	1.9	MAGRUDER MTN
29 10:37:29	37.286	117.640	0.3	4.10	0.9	117	AB	---	1.2	MAGRUDER MTN
29 10:41: 0	37.298	117.641	0.2	2.61	0.5	117	AB	---	1.3	MAGRUDER MTN
29 11:10: 3	37.295	117.636	0.2	1.52	0.5	113	AB	1.6	1.2	MAGRUDER MTN
29 18:32: 8	37.536	117.428	0.6	9.92	0.8	256	AD	1.0	1.0	MONTEZUMA PEAK SW
29 20:49:16	37.850	116.169	0.7	5.45	7.0	129	CC	---	1.1	REVEILLE PEAK
30 0:38:12	37.835	116.422	0.3	9.89	0.3	178	AC	1.5	0.9	TIMBER MTN
30 0:39: 3	37.828	116.412	0.2	9.73	0.2	172	AC	1.2	0.7	TIMBER MTN
30 1: 1:53	37.829	116.422	0.5	9.29	0.3	233	AD	1.1	0.6	TIMBER MTN
30 2:10:19	37.832	116.407	0.6	9.75	0.3	234	AD	1.0	0.5	TIMBER MTN
OCT 2 21:35:42	37.836	115.783	0.8	3.43*	---	65	CC	2.1	---	WHITE BLOTCH SPRINGS
3 15: 0:54	38.033	117.091	0.4	10.00	2.1	214	BD	1.6	1.6	TONOPAH
4 8:51:22	37.814	116.366	0.5	10.31	0.6	125	AB	0.9	0.4	BUCKBOARD MESA
4 9:33:50	36.709	115.801	2.5	2.58	6.9	274	CD	---	1.0	TIN SPRING
5 16:10:54	36.646	119.218	---	28.74	---	344	AD	2.8	---	***REGIONAL***
5 17: 9:50	37.225	117.879	0.4	11.72	0.6	165	AC	---	1.4	LAST CHANCE RANGE
6 1:40:54	37.532	115.750	0.7	1.11	2.0	71	BC	1.[illegible]	---	WHITE BLOTCH SPRINGS
8 18:30:37	36.959	117.100	0.4	2.07	1.3	64	AB	1.5	---	GRAPEVINE PEAK
10 17:10: 0	35.997	116.941	1.2	2.44	2.1	226	BD	1.6	1.5	WINGATE WASH
10 17:57:49	36.534	115.709	0.6	1.49	2.4	149	BC	---	1.1	MERCURY SE
15 0:40: 6	37.305	115.218	0.3	11.94	0.7	139	AC	---	1.2	ALAMO
16 13:31:23	37.464	115.205	1.1	1.90	3.1	62	CC	1.3	---	ASH SPRINGS
16 15:10: 3	37.387	114.962	3.0	0.05	2.3	245	CD	1.4	---	DELAMAR NW
16 19:57:57	36.965	117.101	0.2	1.36	0.6	76	AB	1.0	1.5	GRAPEVINE PEAK
19 10:48:54	37.703	115.054	0.9	8.05	3.9	216	BD	1.4	1.3	MIKO NE
19 15:50:56	36.668	116.186	2.5	4.77	4.1	291	CD	0.6	---	SPECTER RANGE NW
20 20: 0:34	36.663	116.384	0.5	-0.18	0.3	212	AD	1.1	0.7	LATHROP WELLS NW
21 14:01:46	38.454	118.280	13.0	19.21	2.0	306	DD	2.7	---	***REGIONAL***
21 14:55:31	38.192	117.689	3.8	10.40	1.6	255	CD	2.4	---	GILBERT
21 21:24:19	36.527	116.232	0.2	6.06	1.2	85	AC	1.8	1.2	SPECTER RANGE SW
22 12: 5:22	37.161	116.566	0.2	0.03	0.3	100	AC	1.8	1.5	THIRSTY CANYON NE
24 16:24:53	37.085	116.166	0.2	0.08	0.2	98	AB	1.3	0.9	TIPPIPAH SPRING
24 16:25:18	37.084	116.194	0.3	1.99	0.9	121	AB	0.8	1.1	TIPPIPAH SPRING
26 7:51: 2	37.224	117.030	0.5	5.71	3.3	210	BD	1.2	1.3	BONNIE CLAIRE
26 7:51:13	37.228	117.030	0.3	6.82	1.6	211	AD	1.8	1.3	BONNIE CLAIRE
29 16:24: 8	36.567	116.220	0.6	6.92	2.4	172	BC	---	1.1	SPECTER RANGE SW
29 16:24:18	36.569	116.213	0.3	3.64	4.8	169	BC	0.9	0.9	SPECTER RANGE SW
29 17: 1:28	36.774	115.320	---	5.26	---	189	AD	---	1.2	DEAD HORSE RIDGE
30 4: 3:44	36.332	117.193	0.5	4.78	1.2	196	AD	1.9	1.6	EMIGRANT CANYON
30 15:55:13	37.929	116.135	0.8	5.56	4.6	228	BD	---	1.3	REVEILLE PEAK
31 0: 7: 5	37.340	116.197	2.1	0.75	1.8	283	DD	---	1.1	QUARTZ DOME
31 0: 7:35	37.530	116.702	0.5	15.01	0.7	328	AD	1.2	1.2	MELLAN
31 9:23:20	37.721	114.980	0.5	2.10	1.1	185	AD	1.4	1.4	DELAMAR LAKE
31 9:29:49	37.420	115.518	0.5	5.91	4.3	150	BC	---	1.4	GROOM RANGE NE
31 19:13:58	37.692	115.450	1.7	6.98	2.2	286	BD	---	1.4	MT IRISH
NOV 1 0:19: 7	37.399	115.885	0.2	5.95	2.3	78	BC	1.8	1.4	GROOM RANGE NE
1 4:48:12	37.387	115.883	0.2	12.08	0.6	169	AC	---	1.4	GROOM RANGE NE
3 3:33:19	35.719	115.947	2.1	2.57	5.3	156	CC	---	0.7	MERCURY
4 20:39:48	37.328	115.234	0.4	4.11	6.5	151	CC	---	1.0	ALAMO
6 11: 0:27	36.764	116.248	0.2	4.30	0.3	106	AB	1.3	0.8	SKULL MTN
8 15:40:26	37.095	116.085	1.7	6.98	2.5	154	BC	1.3	0.8	YUCCA FLAT
8 19:11: 4	37.852	115.077	1.1	14.85	3.4	296	BD	---	1.8	WHITE RIVER NARROWS
8 2:44:23	37.073	116.187	0.3	5.51	0.5	166	AC	---	1.5	TIPPIPAH SPRING
8 4: 0:27	37.658	115.072	0.6	3.17*	---	175	CC	1.3	1.4	MIKO NE
8 4:21:44	37.399	115.883	0.3	4.85	4.3	77	BC	1.8	1.6	GROOM RANGE NE
10 16:40: 1	36.987	116.057	3.4	3.49*	---	66	DB	3.0	---	YUCCA LAKE
11 7:19:45	36.873	116.235	0.2	0.04	0.2	94	AB	1.1	1.0	SKULL MTN
13 23:28:37	37.409	115.092	1.4	7.08**	1.3	297	DD	2.3	---	ALAMO NE
14 2:40: 8	37.213	116.356	0.2	1.07	0.3	87	AA	1.6	1.0	AMMONIA TANKS
14 11:23:42	37.208	117.311	0.5	4.89	1.6	197	AD	---	1.2	UBEHEBE CRATER

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1984 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
NOV 14	17:18:35	36.587	118.059	0.9	8.15	3.5	289	DD	1.5	2.3	***REGIONAL***
15	1:18: 2	37.336	115.269	0.5	4.02	3.7	113	BC	1.7	1.5	ALAMO
15	2:50:26	37.405	115.512	0.5	6.01	3.4	153	BC	---	1.1	GROOM RANGE NE
16	1:36:57	37.449	115.587	0.5	7.35	1.4	83	AC	1.8	2.2	GROOM RANGE NE
16	1:45:46	36.609	116.283	0.2	4.30	0.5	159	AC	0.9	0.9	LATHROP WELLS SE
16	3:58:49	36.649	116.338	0.5	0.34	0.3	181	AD	---	0.7	STRIPED HILLS
17	3:56: 9	37.310	115.186	0.3	13.70	0.9	135	AC	---	1.1	ALAMO
17	10:29:12	36.447	117.039	0.3	13.83	0.6	123	AB	---	1.1	EMIGRANT CANYON
17	10:59:32	36.718	116.100	0.5	10.20	1.0	179	AC	---	0.7	SPECTER RANGE NW
18	7:17: 0	37.184	116.366	0.2	6.60	1.9	146	AC	1.3	1.0	THIRSTY CANYON NE
19	5: 2:54	35.886	117.078	4.0	10.39	0.9	274	CD	2.3	---	MOUNTAIN SPRINGS CANYON
19	21:51:50	37.120	115.197	0.5	0.00	0.2	258	AD	1.0	1.0	LOWER PAHRANAGAT LAKE SW
20	5:31:35	36.850	116.076	0.2	13.36	0.3	140	AC	1.1	1.0	CANE SPRING
21	1:10: 0	37.358	116.929	0.2	9.55	0.3	239	AD	---	0.2	TRAIL RIDGE
22	7:40:11	37.148	117.407	0.2	0.21	0.3	134	AC	---	1.0	UBEHEBE CRATER
22	7:40:50	37.147	117.407	0.4	0.01	2.2	134	BC	---	1.3	UBEHEBE CRATER
22	10: 7:11	37.346	117.234	0.2	0.12	0.1	71	AB	1.3	1.3	SCOTTYS JUNCTION SW
23	11: 2: 3	36.871	116.119	0.1	1.00	0.2	117	AB	---	0.7	CANE SPRING
23	11: 2:30	36.876	116.120	0.4	3.79	2.0	115	AB	---	0.9	YUCCA LAKE
23	19:12:37	37.428	118.473	13.9	13.75	4.5	283	DD	3.6	---	***REGIONAL***
24	2:35:21	37.447	118.563	6.7	1.56	4.8	294	DD	2.4	---	***REGIONAL***
24	2:46:32	37.456	118.779	8.4	4.40	2.9	308	DD	2.6	---	***REGIONAL***
24	5:10:27	37.414	118.231	14.0	11.50	4.0	286	DD	2.2	---	***REGIONAL***
24	9:21:29	37.417	117.633	1.1	14.90	0.5	244	BD	2.7	---	MAGRUDER MTN
25	9:49:23	37.252	116.059	0.2	5.22	0.4	60	AA	2.1	2.1	OAK SPRING BUTTE
25	18:22:34	37.493	118.432	4.9	9.21	1.5	299	CD	2.6	---	***REGIONAL***
26	8:57:50	37.119	117.197	0.2	5.34	1.6	63	AC	2.1	1.9	BONNIE CLAIRE SW
26	16:21:41	37.459	118.703	0.2	3.44	3.8	385	DD	3.6	---	***REGIONAL***
26	23:40:14	38.338	117.336	1.0	2.53	3.8	253	BD	2.2	2.4	SAN ANTONIA RANCH
27	17:26: 8	36.775	116.832	0.7	3.14	---	287	CD	2.6	1.6	BULLFROG
28	1:19: 2	37.167	117.393	0.2	6.87	0.3	119	AC	1.6	1.7	UBEHEBE CRATER
28	6:44:37	37.429	118.494	8.3	6.07	2.7	308	DD	2.9	---	***REGIONAL***
29	13:22:14	37.213	116.373	0.4	4.00	0.5	249	AD	1.2	1.3	AMMONIA TANKS
29	14:23:43	36.417	117.916	0.6	5.92	0.7	295	AD	---	1.5	KEELER
30	7: 0: 2	37.463	118.596	7.6	0.91	5.4	296	DD	2.4	---	***REGIONAL***
30	12:57:43	37.426	118.262	12.5	7.26	4.7	286	DD	2.3	---	***REGIONAL***
30	18:36:43	36.572	116.851	0.2	6.29	1.3	93	AC	---	0.9	CHLORIDE CLIFF
DEC 1	4:55:53	37.461	118.798	14.5	3.83	4.9	329	DD	2.5	---	***REGIONAL***
3	21:21:51	37.800	115.001	0.7	5.05	3.1	166	BC	0.8	1.5	WHITE RIVER NARROWS
4	0:16:41	37.270	116.184	0.1	0.43	0.3	100	AB	1.5	1.4	QUARTET DOME
4	1:22:40	36.606	116.275	0.4	3.58	1.3	168	AC	0.5	0.6	LATHROP WELLS SE
4	8:36:24	36.616	116.266	0.3	4.51	0.9	154	AC	---	0.3	LATHROP WELLS SE
4	20:53:11	36.098	115.073	0.9	5.03	1.2	262	AD	---	2.6	LAS VEGAS SE
5	0: 9:34	37.406	116.808	7.6	2.21	4.5	302	DD	2.6	---	***REGIONAL***
5	15:29:22	37.434	117.027	0.8	18.05	3.0	326	BD	1.2	1.3	SCOTTYS JUNCTION NE
5	16:35:21	36.588	115.889	0.2	17.08	0.2	198	AD	0.6	0.8	MERCURY SW
5	20: 0:30	36.759	115.898	0.3	7.25	0.6	202	AD	0.5	0.9	FRENCHMAN FLAT
5	20:14:50	36.759	115.894	0.6	7.53	1.0	200	AD	0.7	1.0	FRENCHMAN FLAT
5	21:51: 3	37.202	116.277	0.1	9.04	0.1	227	AD	1.7	---	AMMONIA TANKS
5	21:51: 3	37.202	116.277	0.1	9.10	0.1	227	AD	1.7	---	AMMONIA TANKS
6	3:51: 4	36.358	117.922	0.5	0.45	0.5	259	AD	---	1.8	KEELER
6	4:38:18	36.764	115.908	0.2	0.01	0.6	58	AB	1.9	2.3	FRENCHMAN FLAT
6	4:47:56	36.755	115.893	0.2	0.56	0.3	123	AB	0.7	1.3	FRENCHMAN FLAT
6	15:16:54	37.378	116.729	0.6	0.56	1.8	278	AD	1.3	1.5	MELLAN
7	16:42:27	36.754	115.588	0.6	1.36	1.1	258	AD	0.8	1.1	TIM SPRING
8	10:58:19	37.061	117.225	0.2	4.61	1.0	71	AC	1.3	1.3	BONNIE CLAIRE SW
9	0: 5:25	37.343	117.254	0.3	0.14	0.2	112	AB	1.2	1.4	GOLD POINT
9	2:34:35	37.338	117.245	0.1	0.77	0.1	85	AA	1.0	2.0	SCOTTYS JUNCTION SW
9	20:35:47	37.254	116.826	0.1	10.32	0.1	173	AC	1.0	1.0	TRAIL RIDGE
9	22:11:38	36.147	117.888	0.6	5.03	1.2	266	AD	1.9	2.3	COSO PEAK
9	23:11:57	37.351	116.483	0.1	15.31	0.2	258	AD	1.5	1.1	SILENT BUTTE
10	0:52:49	37.342	117.244	0.2	0.38	0.2	78	AA	1.4	1.5	SCOTTYS JUNCTION SW
10	4:17:54	37.042	116.301	0.1	-0.96	0.1	100	AB	0.4	0.6	BUCKBOARD MESA
11	8: 9:12	36.603	115.843	0.2	2.99	1.0	101	AC	1.5	1.4	MERCURY SE
11	8:18:40	36.666	115.901	0.2	10.05	0.2	147	AC	1.1	1.2	MERCURY
11	9:41:13	37.342	117.242	0.2	0.44	0.1	97	AB	1.5	1.4	SCOTTYS JUNCTION SW

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1984 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
DEC 11 11: 1:21	36.587	115.838	0.2	5.19	1.1	101	AC	1.5	1.8	MERCURY SE
11 14:13:29	36.877	116.318	0.3	2.28	0.5	137	AC	0.8	0.6	TOPOPAH SPRING
11 14:48:49	37.469	116.375	0.2	31.31	0.1	220	AD	1.5	1.9	SILENT CANYON NW
11 15:39:38	36.597	115.823	0.2	2.01	0.8	139	AC	1.3	1.2	MERCURY SE
11 21:41:11	37.671	116.851	0.2	4.99	1.1	116	AC	1.0	1.7	CACTUS SPRING
11 23:46:54	36.988	116.483	0.6	4.20	1.0	160	AC	1.0	0.9	TOPOPAH SPRING NW
12 3:32:27	36.799	116.224	0.1	0.98	0.3	188	AD	0.6	0.5	SKULL MTN
12 8:35: 4	37.348	117.246	0.1	0.85	0.1	84	AA	1.6	1.6	SCOTTYS JUNCTION SW
14 5: 4:27	37.341	117.241	0.2	0.37	0.1	78	AA	1.5	1.7	SCOTTYS JUNCTION SW
14 13:44:11	37.335	117.258	0.3	1.98	0.5	111	AB	1.3	1.4	GOLD POINT
14 13:58:22	37.347	117.251	0.2	0.24	0.2	161	AC	1.3	1.4	GOLD POINT
14 20:51:33	37.336	117.251	0.1	1.49	0.3	68	AA	1.7	2.0	GOLD POINT
16 2:24:27	37.343	117.238	0.2	-0.03	0.2	138	AC	1.5	1.9	SCOTTYS JUNCTION SW
17 1: 5:29	37.345	117.246	0.2	0.18	0.1	155	AC	——	1.3	SCOTTYS JUNCTION SW
18 0:41: 7	37.205	117.181	0.1	1.41	0.5	62	AC	1.8	1.7	BONNIE CLAIRE NW
18 4:42:15	37.337	117.247	0.1	0.87	0.1	69	AA	1.6	1.6	SCOTTYS JUNCTION SW
18 4:54:27	37.349	117 244	0.2	0.46	0.1	119	AB	1.6	1.3	SCOTTYS JUNCTION SW
19 0:47:52	36.702	116.296	0.2	-0.26	0.2	177	AC	0.8	0.5	STRIPED HILLS
19 2:19:29	37.289	115.407	0.2	7.05	1.0	94	AC	1.3	1.7	CUTLER RESERVOIR
19 7:48:58	36.644	115.632	0.2	-0.83	0.2	184	AD	1.0	0.5	MERCURY NE
19 22:33: 7	37.350	117.237	0.1	-0.07	0.1	71	AB	1.6	2.0	SCOTTYS JUNCTION SW
20 18:46: 2	37.349	117.239	0.2	-0.40	0.2	54	AB	1.6	1.6	SCOTTYS JUNCTION SW
20 18:54: 5	37.347	117.238	0.3	-0.30	0.2	102	AC	1.3	1.4	SCOTTYS JUNCTION SW
20 20:57:19	37.138	116.067	0.2	17.24	0.2	161	AC	0.7	1.1	OAK SPRING
21 0:38: 9	37.161	116.605	0.1	5.45	0.3	88	AB	1.3	1.3	THIRSTY CANYON NE
21 1:19:38	36.647	116.620	0.2	14.01	0.2	195	AD	0.6	0.8	BIG DUNE
21 8:48:53	36.777	116.039	0.2	5.70	0.8	205	AD	0.5	0.7	CANE SPRING
21 8:53:24	37.342	117.242	0.1	0.39	0.1	53	AA	1.6	1.8	SCOTTYS JUNCTION SW
21 17:33:41	37.668	116.835	0.2	0.44	0.2	167	AC	1.3	1.4	CACTUS SPRING
21 21:36:28	37.680	115.245	0.1	2.77	0.1	202	AD	0.8	1.1	FOSSIL PEAK
21 22:49:13	37.165	116.613	0.2	7.03	0.8	136	AC	0.8	0.8	THIRSTY CANYON NE
21 22:54:14	37.163	116.615	0.2	10.19	0.4	93	AB	1.2	1.5	THIRSTY CANYON NE
21 22:57: 5	37.161	116.684	0.1	5.35	0.5	89	AB	1.1	1.3	THIRSTY CANYON NE
22 1:44:41	37.324	116.584	0.1	12.07	0.2	88	AB	1.4	1.7	TRAIL RIDGE
22 2:12:36	37.152	116.520	0.1	6.71	0.5	184	AC	1.1	1.8	THIRSTY CANYON NE
22 11:39:54	35.876	117.531	0.5	9.00	0.3	275	AD	1.9	2.5	MOUNTAIN SPRINGS CANYON
22 13:48:11	37.348	117.241	0.1	0.23	0.1	184	AB	2.0	2.0	SCOTTYS JUNCTION SW
22 20:50:19	36.731	115.473	0.3	12.83	1.4	185	AC	1.1	1.4	BLACK HILLS NW
22 22:31:57	37.859	117.245	0.1	5.22	0.7	168	AC	1.9	2.1	MUD LAKE
23 0:32:18	36.719	115.882	0.3	0.46	0.4	172	AC	0.6	——	MERCURY
24 1:39:37	37.337	117.254	0.1	0.98	0.1	76	AA	1.2	1.4	GOLD POINT
24 15: 2:33	37.352	117.230	0.1	-0.45	0.1	72	AB	1.4	1.8	SCOTTYS JUNCTION SW
25 19: 4: 5	37.339	117.253	0.2	1.45	0.4	69	AA	1.3	1.5	GOLD POINT
25 21:59:26	37.747	115.986	0.2	-0.69	0.2	154	AC	1.2	1.8	WHITE BLOTCH SPRINGS
26 6:25: 8	36.827	116.745	0.4	5.54	0.9	253	AD	0.5	0.8	BARE MTN
26 10:18: 9	37.837	115.961	0.3	20.01	0.2	170	AC	1.2	1.7	***QUAD. NOT LISTED***
27 2:25: 5	37.341	117.252	0.2	0.49	0.2	153	AC	1.4	1.4	GOLD POINT
27 16:37:28	36.805	116.738	0.1	0.58	0.2	58	AB	1.1	1.3	BARE MTN
27 19:44: 4	36.800	116.729	0.1	4.89	0.6	81	AB	1.2	1.3	BARE MTN
28 8:41:28	37.294	116.572	0.2	4.27	0.7	76	BB	1.2	1.3	TRAIL RIDGE
28 18:15:18	37.063	116.508	0.3	1.48	0.8	69	AC	1.5	——	THIRSTY CANYON SE
30 4:18:13	37.352	117.262	0.9	12.34	1.2	114	BB	2.2	——	GOLD POINT

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)			LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JAN	1	4: 0:59	37.048	116.163	1.3	5.84	4.7	226	BD	1.9	---	REVEILLE PEAK
	1	21:10:30	37.168	117.520	0.6	1.86	1.7	146	AC	1.6	---	LAST CHANCE RANGE
	2	8:41:42	37.116	116.050	0.2	16.74	0.4	125	AB	1.3	---	YUCCA FLAT
	2	21:40:34	36.893	115.995	0.2	3.32•	---	121	CC	1.6	---	PLUTONIUM VALLEY
	3	20:47:49	37.341	117.251	0.4	0.84	0.3	76	BA	1.9	---	GOLD POINT
	3	22:59:20	37.393	116.416	0.6	7.15	3.2	298	BD	---	0.2	SILENT CANYON NW
	5	17:53:59	36.680	116.312	0.3	5.15	0.4	183	AD	---	0.2	STRIPED HILLS
	6	9:40: 2	37.334	117.253	0.3	1.49	0.8	151	AC	---	0.2	GOLD POINT
	6	14:18:20	37.103	116.202	0.1	0.01	0.2	93	AC	1.9	---	RAINIER MESA
	6	16:38:55	36.343	117.071	1.4	-0.74	1.3	293	BD	2.1	---	KEELER
	6	17:51:12	36.695	116.347	0.1	0.84	0.1	241	AD	---	0.2	STRIPED HILLS
	7	1:27:39	37.320	116.457	0.2	12.49	0.3	237	AD	---	0.2	SILENT BUTTE
	8	5: 7:53	37.488	116.393	0.5	7.06	1.6	305	AD	1.8	1.4	SILENT CANYON NW
	8	6:59: 1	36.955	118.050	0.4	1.55	0.8	265	AD	2.7	---	•••REGIONAL•••
	8	7: 0:59	36.921	118.127	1.9	6.73	9.4	287	CD	---	0.2	•••REGIONAL•••
	9	2:55:36	37.273	116.192	4.6	0.05	4.1	300	CD	---	1.1	QUARTET DOME
	10	17:53: 1	36.814	116.105	0.1	2.70	0.4	54	AC	1.7	---	SPECTER RANGE SE
	13	14:46: 9	36.812	116.230	0.4	5.04	0.8	106	AB	---	0.2	SKULL MTN
	13	22:21:15	36.366	115.769	0.2	14.40	0.2	125	AB	2.5	---	MT STIRLING
	14	19:53:20	37.469	116.474	0.6	9.26	1.5	145	AC	1.4	---	SILENT CANYON NW
	14	20:44:51	37.556	116.504	1.5	10.46	4.8	314	BD	1.5	---	MELLAN
	15	3:15:13	37.303	117.004	0.2	0.01	0.5	[illegible]	AB	---	0.2	MAGRUDER MTN
	15	8:13: 8	36.835	116.253	0.2	3.50	1.[illegible]	113	AB	1.0	---	JACKASS FLATS
	15	8:15:32	36.375	115.764	0.2	13.73	0.4	172	AC	---	0.2	MT STIRLING
	15	8:50:55	37.351	116.437	0.6	7.77	1.6	257	AD	1.2	---	SILENT BUTTE
	15	21:17:58	37.566	116.212	2.5	12.38	3.3	341	BD	---	0.2	BELTED PEAK
	15	21:20:19	37.238	116.443	0.2	12.04	0.5	118	AB	1.9	---	SCRUGHAM PEAK
	15	21:23:56	37.348	117.236	0.3	-0.11	0.3	71	AB	2.1	---	SCOTTYS JUNCTION SW
	16	18:17:54	37.297	116.299	0.5	-0.71	0.3	285	AD	-0.5	---	DEAD HORSE FLAT
	16	13:36:59	37.345	117.238	0.3	0.25	0.2	71	AB	---	0.2	SCOTTYS JUNCTION SW
	16	13:50:39	36.691	115.865	0.5	-0.01	0.4	143	AC	---	0.2	MERCURY NE
	16	14:32:54	37.363	117.242	0.3	-0.81	0.2	168	AC	---	0.2	SCOTTYS JUNCTION SW
	16	16:43:16	36.836	116.213	0.5	2.00	1.1	144	BC	1.5	---	SKULL MTN
	16	17:17:53	36.873	116.227	0.6	0.19	0.6	149	BC	---	0.2	SKULL MTN
	16	17:20:57	37.322	115.667	0.6	-1.04	0.4	169	BC	1.6	---	ALAMO SE
	17	9:23:55	37.348	117.238	0.2	-0.05	0.2	71	AB	1.9	---	SCOTTYS JUNCTION SW
	17	9:30:22	37.345	117.235	0.3	0.27	0.2	103	AB	1.9	---	SCOTTYS JUNCTION SW
	17	20:32:31	36.712	116.276	0.3	6.56	0.3	185	AD	---	0.2	STRIPED HILLS
	19	1:20:25	37.084	115.289	0.3	8.98	0.8	125	AB	2.1	---	DESERT HILLS SE
	19	17:55: 7	37.351	117.235	0.3	-0.26	0.2	120	AB	1.5	---	SCOTTYS JUNCTION SW
	19	17:59:19	37.348	117.235	0.2	0.10	0.2	71	AB	1.9	---	SCOTTYS JUNCTION SW
	19	21:31:57	37.136	116.576	0.1	13.33	0.3	86	AA	1.4	---	THIRSTY CANYON NE
	20	0:51: 2	36.577	116.979	0.2	10.49	0.7	89	AB	1.7	---	CHLORIDE CLIFF
	20	4:36:48	37.318	116.502	0.4	9.55	0.7	189	AD	1.7	---	TRAIL RIDGE
	20	5:26:53	36.376	116.949	1.2	3.12•	---	338	CD	1.5	---	FURNACE CREEK
	20	10:32:56	37.312	117.675	0.7	5.44	1.9	137	AC	---	0.2	MAGRUDER MTN
	20	18:40:54	36.617	116.444	0.3	3.16	3.7	34	BB	2.0	---	LATHROP WELLS SW
	20	18:46:52	36.617	116.455	0.3	5.04	0.9	138	AC	1.5	---	LATHROP WELLS SW
	20	18:50:26	36.621	116.453	0.2	7.47	0.5	90	AB	1.7	---	LATHROP WELLS SW
	20	19:17:29	36.621	116.453	0.5	4.37	1.4	261	AD	1.5	---	LATHROP WELLS SW
	20	19:31:37	36.618	116.461	0.7	4.79	2.0	272	AD	---	0.2	LATHROP WELLS SW
	20	20:11:24	36.617	116.455	0.5	6.48	0.8	273	AD	1.4	---	LATHROP WELLS SW
	20	21:44:29	36.631	116.447	0.5	5.89	0.8	287	AD	---	0.2	LATHROP WELLS NW
	20	22: 9:44	36.639	116.446	0.5	3.95	1.0	258	AD	1.3	---	LATHROP WELLS NW
	20	22:43:19	36.618	116.451	0.4	5.84	0.8	271	AD	1.3	---	LATHROP WELLS SW
	20	23:37:14	36.633	116.437	0.5	7.88	0.8	288	AD	1.3	---	LATHROP WELLS NW
	20	23:59:24	36.620	116.447	0.2	6.03	0.5	278	AD	1.4	---	LATHROP WELLS SW
	21	3:22:20	36.622	116.453	0.4	5.41	0.8	281	AD	1.5	---	LATHROP WELLS SW
	21	4: 3:48	36.604	116.417	0.7	5.49	1.0	283	AD	1.4	---	LATHROP WELLS SW
	21	4: 4: 7	36.617	116.430	0.5	9.72	0.5	272	AD	1.4	---	LATHROP WELLS SW
	21	5:53:27	36.638	116.438	0.3	0.21	0.6	184	AC	1.7	---	LATHROP WELLS NW
	21	5:58:55	36.618	116.445	0.4	0.57	0.7	274	AD	---	0.2	LATHROP WELLS SW
	21	6: 1:24	36.618	116.459	0.6	3.52	3.4	272	BD	---	0.2	LATHROP WELLS SW
	21	6:40:54	36.612	116.472	1.1	3.63	6.8	283	CD	---	0.2	LATHROP WELLS SW
	21	8: 5:32	36.619	116.453	0.7	6.48	1.0	271	AD	1.4	---	LATHROP WELLS SW
	21	9:10:57	36.621	116.449	0.3	6.46	0.5	278	AD	---	0.2	LATHROP WELLS SW

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JAN 21 9:12:13	36.613	116.465	0.6	3.85	2.9	275	BD	---	0.2	LATHROP WELLS SW
21 15:24: 9	36.620	116.453	0.4	5.38	0.9	271	AD	---	0.2	LATHROP WELLS SW
21 15:29:11	36.619	116.457	0.7	4.68	2.1	271	BD	1.3	---	LATHROP WELLS SW
21 17:23:15	36.612	116.472	1.2	1.86	1.9	276	BD	1.3	---	LATHROP WELLS SW
21 17:52: 6	36.618	116.444	0.7	7.70	0.9	276	AD	---	0.2	LATHROP WELLS SW
21 19: 0:54	37.844	116.232	0.5	1.96	1.9	97	AC	---	0.2	REVEILLE PEAK
21 21:21:11	36.623	116.445	0.2	6.61	0.5	133	AB	1.8	---	LATHROP WELLS SW
21 22:11:49	36.633	116.438	0.4	6.24	0.8	264	AD	---	0.2	LATHROP WELLS NW
22 0:20:27	37.348	117.249	0.3	0.45	0.2	118	AB	1.8	---	SCOTTYS JUNCTION SW
22 1: 0:50	36.633	116.446	0.5	5.11	0.9	261	AD	---	0.2	LATHROP WELLS NW
22 2:15:50	37.345	117.233	0.3	0.22	0.2	71	AB	1.5	---	SCOTTYS JUNCTION SW
22 9: 8: 9	36.647	116.401	30.6	9.02*	---	287	DD	---	0.2	LATHROP WELLS NW
22 14: 6: 2	36.596	115.987	0.3	9.65	0.6	84	AA	---	0.2	MERCURY SW
22 14:26:36	36.644	116.438	0.5	4.28	1.0	252	AD	1.6	---	LATHROP WELLS NW
23 2:47: 3	36.615	116.454	0.7	6.29	1.3	274	AD	1.6	---	LATHROP WELLS SW
23 10:48:21	36.727	116.053	0.3	-0.26	0.3	135	AC	1.7	---	CAMP DESERT ROCK
24 5:27:42	36.654	116.242	0.2	2.61	0.6	112	AB	---	0.2	SPECTER RANGE NW
24 12:26:50	37.246	114.985	0.8	8.56	1.7	218	AD	2.8	---	DELAMAR 3 NW
25 8:24:37	36.618	116.259	0.3	5.89	0.6	148	AC	1.1	---	LATHROP WELLS SE
25 22:46: 5	37.488	115.583	0.6	4.93	0.2	154	CC	1.6	---	GROOM RANGE NE
25 23:44:53	36.621	116.449	0.3	6.81	0.6	278	AD	1.3	---	LATHROP WELLS SW
26 22:57:29	36.598	116.614	0.5	15.32	0.6	171	AC	---	0.2	SPECTER RANGE SE
26 23:25:36	36.638	116.435	0.3	6.84	0.4	256	AD	---	0.2	LATHROP WELLS NW
27 3:43:11	36.623	116.449	0.2	5.47	0.7	135	AB	1.8	--	LATHROP WELLS SW
27 10:37:15	36.852	117.721	0.8	2.84	2.9	212	BD	2.1	---	DRY MTN
27 11:25:28	36.778	115.868	0.6	8.98	1.3	226	AD	---	0.2	FRENCHMAN LAKE SE
27 17:59:40	36.599	115.828	0.3	8.84	0.4	136	AC	---	0.2	MERCURY SE
27 23:37: 2	37.233	117.698	0.4	11.06	0.5	199	AD	---	0.2	LAST CHANCE RANGE
28 6: 3:57	36.936	116.101	0.2	3.59	0.5	68	AB	1.5	---	YUCCA LAKE
29 16:14:25	36.716	116.234	0.2	3.43	0.2	212	AD	---	0.2	SPECTER RANGE NW
29 18:19:19	36.624	116.453	0.5	5.25	1.3	273	AD	1.4	---	LATHROP WELLS SW
29 18:41:21	36.622	116.452	0.1	8.25	0.3	72	AB	1.5	---	LATHROP WELLS SW
29 21:58:28	37.218	114.788	0.4	5.53	4.0	212	BD	2.2	---	VIGO NW
30 12:48:58	36.617	116.452	0.3	4.55	1.0	278	AD	---	0.2	LATHROP WELLS SW
31 3:27:30	37.490	116.417	0.7	11.62	1.3	300	AD	---	0.2	SILENT CANYON NW
31 8:25:43	36.754	115.916	0.3	9.33	0.6	158	AC	---	0.2	FRENCHMAN FLAT
31 14: 6: 1	37.035	116.030	0.4	6.61	0.8	188	AD	---	0.2	YUCCA FLAT
31 18:50:22	37.314	115.783	1.2	3.83*	---	342	CD	2.4	---	GROOM MINE SE
FEB 1 4:25:27	36.888	116.127	1.3	6.80	0.6	318	BD	---	0.8	MINE MTN
1 15:47: 9	36.864	116.106	0.5	3.46	0.6	196	AD	---	0.9	CANE SPRING
1 18:33:36	36.747	115.916	0.4	9.11	0.7	183	AD	---	0.7	MERCURY
2 12:12:54	36.588	116.034	0.2	6.09	1.0	212	AD	1.2	0.8	BIG DUNE
2 12:15:25	36.583	116.034	0.1	4.31	3.8	91	BC	1.5	0.8	BIG DUNE
2 13:18:47	37.568	117.728	0.4	4.13	5.6	148	CC	---	1.3	LIDA WASH
3 21:33:39	36.827	116.728	0.5	2.07	0.7	248	AD	1.0	0.3	BARE MTN
5 12: 6:21	38.031	115.402	0.8	7.66	1.5	232	AD	1.5	1.5	***QUAD. NOT LISTED***
6 10:59:48	37.231	116.012	1.3	7.56	0.5	311	BD	---	0.8	OAK SPRING
6 15:26: 9	36.637	116.399	0.2	3.25	0.3	254	AD	---	5.5	LATHROP WELLS NW
6 22:10: 5	36.587	116.301	0.3	3.42	4.2	234	BD	---	0.9	LATHROP WELLS SE
7 12: 8:45	36.587	115.852	0.6	12.59	1.3	123	AB	---	0.8	MERCURY SE
8 5: 9: 9	36.548	116.256	0.2	0.87	0.5	191	AD	1.1	0.8	LATHROP WELLS SE
8 6:19:45	37.190	116.566	0.1	0.67	0.2	114	AC	1.9	1.1	THIRSTY CANYON NE
8 6:21: 4	36.558	116.273	0.6	11.93	1.2	231	AD	---	0.3	LATHROP WELLS SE
8 6:34:46	37.202	116.566	0.5	0.34	2.0	171	BC	1.3	0.8	THIRSTY CANYON NE
8 9:14:52	36.561	116.254	0.1	7.76	0.6	97	AB	1.0	0.8	LATHROP WELLS SE
9 3:31: 0	36.798	116.077	0.8	6.76	1.5	209	AD	1.6	1.7	CANE SPRING
9 5:31: 2	36.865	116.241	0.5	3.92	1.7	58	BB	2.3	1.5	SKULL MTN
9 5:35: 1	36.774	116.010	1.4	8.29	2.3	257	BD	1.4	1.1	BULLFROG
9 5:39: 0	36.828	116.041	1.1	0.87	1.0	215	BD	1.0	0.8	BARE MTN
9 23: 9:32	36.752	115.896	0.5	4.19	2.3	195	BD	---	0.7	FRENCHMAN FLAT
10 13:48:19	36.994	116.278	0.1	0.48	0.3	87	AB	1.0	1.1	TOPOPAH SPRING
10 13:53:28	37.018	116.176	0.5	6.72	1.0	137	AC	---	0.3	BUCKBOARD MESA
11 8:48:38	36.541	115.881	0.8	13.91	1.2	189	AD	---	0.9	MERCURY SW
13 3:30:59	36.588	116.008	0.8	20.01	1.6	148	BC	1.7	1.1	BIG DUNE
13 3:32:10	36.594	116.413	0.5	1.09	1.6	146	AC	1.1	0.8	LATHROP WELLS SW
13 3:35: 1	36.562	116.264	0.3	5.86	2.5	95	BB	1.5	1.2	LATHROP WELLS SE

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
FEB 13 3:37: 0	36.546	116.114	0.4	9.38	1.1	124	AB	1.4	1.2	SPECTER RANGE SE
13 3:39: 0	36.577	115.758	0.7	4.99	3.3	171	BC	2.0	2.0	MERCURY SE
13 5:31: 7	36.591	115.814	0.7	-0.47	0.9	186	BD	1.3	1.5	MERCURY SW
13 5:33: 1	36.505	116.588	0.3	3.02*	---	163	CC	1.6	0.8	BIG DUNE
13 5:35:10	36.869	116.315	0.9	5.84	1.0	184	BB	1.6	1.0	LATHROP WELLS SE
13 5:37: 0	36.581	116.193	0.2	0.78	0.4	89	AC	1.0	1.0	SPECTER RANGE SW
13 5:39: 0	36.589	116.660	0.2	0.79	0.4	92	AC	1.6	1.3	BIG DUNE
13 8:24:24	36.903	116.654	0.2	0.67	0.3	134	AC	1.5	1.0	BARE MTN
14 4:51:29	36.728	116.488	3.9	0.22	3.0	259	CD	1.0	0.7	LATHROP WELLS NW
14 18:47:39	36.651	115.773	1.1	14.70	2.7	213	BD	1.2	0.9	MERCURY NE
15 1:18: 3	37.659	115.853	---	7.35	---	182	AD	---	0.9	HIKO NE
15 9:42:27	35.904	116.846	4.1	2.66*	---	266	CD	1.7	1.9	WINGATE WASH
15 11:27:00	36.989	117.619	1.0	7.14	3.2	213	BD	---	1.3	DRY MTN
15 21: 3:28	37.639	114.939	7.9	7.00**	4.1	195	DD	---	0.0	PAHROC SPRING
16 17:10:43	36.958	116.237	0.6	5.06	1.3	181	AD	---	0.6	SPECTER RANGE SW
18 9: 0:55	36.780	115.428	1.7	4.78*	---	301	CD	---	1.3	DOG BONE LAKE SOUTH
18 9:18:28	37.400	116.463	1.3	17.85	1.0	277	BD	---	1.0	SILENT CANYON NW
18 21:37:59	37.319	117.628	1.1	7.18	2.2	157	BC	1.6	1.1	MAGRUDER MTN
19 1:34:32	36.645	115.739	0.5	0.47	0.7	162	BC	1.6	1.2	INDIAN SPRINGS NW
19 22:41:33	36.865	116.113	0.3	2.84	0.5	90	AB	1.7	1.3	CANE SPRING
19 23:45: 9	36.864	116.113	0.4	2.40	0.9	114	AB	1.5	1.2	CANE SPRING
20 2:34:40	36.874	116.115	0.4	2.32	0.4	125	AB	---	0.6	CANE SPRING
20 11:23:54	37.497	115.315	0.4	4.35	0.4	133	CC	---	1.3	HANCOCK SUMMIT
21 16:23:51	36.679	116.161	0.4	15.78	0.7	144	AC	---	0.6	SPECTER RANGE NW
22 2: 7:19	37.079	117.099	0.5	8.48	1.7	94	BB	1.7	1.0	BONNIE CLAIRE SE
23 14: 2:37	36.813	117.383	1.1	7.00**	9.1	295	CD	---	1.9	MATURANGO
25 1: 2:35	37.367	116.585	1.5	4.66	5.6	133	CC	---	1.3	BLACK MTN NE
25 8:17:57	37.126	115.937	0.9	9.92	1.1	247	AD	---	1.2	JANGLE RIDGE
25 19:48: 9	36.979	116.457	0.5	9.51	0.6	281	AD	1.3	0.9	TOPOPAH SPRING NW
26 1: 7:56	36.951	116.746	1.2	8.08	2.9	278	BD	1.5	0.8	BARE MTN
27 14: 5:58	36.895	115.620	0.7	4.49	2.8	319	BD	---	1.4	HEAVENS WELL
28 7:42:11	36.997	116.215	0.4	1.44	1.4	178	AC	1.5	0.9	MINE MTN
MAR 1 2:54:10	37.221	117.344	0.2	6.97	0.3	127	AC	1.8	1.5	UBEHEBE CRATER
1 12:52:44	36.890	115.978	1.6	2.71	2.7	234	BD	---	0.7	PLUTONIUM VALLEY
4 4:48: 3	37.252	114.914	1.2	0.76	1.1	189	BD	1.9	1.9	DELAMAR LAKE
4 7:46:28	36.485	116.576	0.5	8.78	1.9	82	BB	1.4	1.1	RYAN
4 18:58:39	36.747	115.918	0.4	7.56	0.8	184	AD	0.6	1.0	MERCURY
4 23: 7:20	37.227	114.902	0.7	9.51	1.4	215	AD	2.4	1.1	DELAMAR 3 NW
5 9:52:21	36.729	115.651	0.4	1.78	1.0	182	AD	1.2	1.3	INDIAN SPRINGS NW
7 22:29:21	36.850	116.213	0.2	1.02*	---	121	CB	---	0.7	SKULL MTN
8 6:42:52	38.285	117.285	1.3	7.26	1.2	244	BD	2.8	2.7	BAXTER SPRING
8 12:52:57	36.632	116.493	0.7	2.94	1.0	263	AD	0.9	0.7	LATHROP WELLS NW
10 13:31: 5	37.208	115.125	1.5	9.98	2.5	194	BD	1.6	1.3	LOWER PAHRANAGAT LAKE NW
11 18:47:26	37.765	115.982	0.6	2.96	3.3	149	BC	---	1.5	***QUAD. NOT LISTED***
12 6:19:42	36.599	115.990	3.3	10.02	0.4	188	AD	---	1.0	MERCURY SW
12 11:28: 7	37.758	115.972	0.4	5.43	1.0	147	AC	2.6	---	***QUAD. NOT LISTED***
13 15: 4:11	36.633	116.531	0.9	13.27	1.2	249	AD	---	0.7	BIG DUNE
13 20:43: 7	36.833	116.129	2.4	-1.88	0.8	278	BD	---	-0.6	SKULL MTN
13 22:31:44	36.754	116.575	99.6	0.62*	---	342	DD	---	1.3	BARE MTN
13 23:15:28	37.111	116.383	0.3	5.31	0.6	180	AC	1.2	1.3	TIMBER MTN
14 1:31:22	37.222	114.895	1.0	12.59	1.3	239	AD	2.3	1.8	DELAMAR 3 NW
14 11:42: 1	37.285	114.907	2.4	5.45	8.7	210	CD	1.7	2.1	DELAMAR LAKE
14 12: 6:28	36.728	116.281	0.2	2.68	0.2	185	AB	1.5	0.5	STRIPED HILLS
14 20:45:48	36.778	116.288	5.7	8.18*	---	272	DD	---	0.8	JACKASS FLATS
16 9:43:25	37.017	117.829	1.1	-0.02	1.0	236	BD	2.1	1.6	WAUCOBA SPRING
17 16:45:13	37.501	114.546	4.2	10.36	1.8	254	CD	1.8	---	CALIENTE
18 15:18:42	37.664	115.034	0.3	-1.14	0.4	188	AB	---	1.0	HIKO NE
19 8:16: 5	37.288	117.832	0.7	10.85	0.9	144	AC	---	1.3	MAGRUDER MTN
20 19: 2: 9	37.142	116.218	0.2	4.38	0.8	120	AC	---	1.2	RAINIER MESA
21 14:38:57	37.898	115.067	1.0	8.07	3.6	282	BD	---	1.1	WEEPAH SPRING
21 20: 4:59	37.871	117.746	0.4	9.68	1.3	122	AB	---	1.9	LIDA WASH
22 9:11:39	37.127	116.276	0.3	6.36	1.1	115	AB	1.8	1.0	AMMONIA TANKS
23 3:34:15	37.663	115.848	0.6	7.99	1.8	183	AB	---	0.9	HIKO NE
23 19:58: 5	37.249	116.032	0.5	2.79	1.0	166	AC	---	1.1	OAK SPRING
25 16:33: 1	37.833	116.484	0.8	12.71	0.6	257	AD	1.1	0.5	TIMBER MTN
25 17:34: 4	37.825	116.487	0.7	11.84	0.6	246	AD	---	0.9	TIMBER MTN

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAR 26 9:17:16	37.166	117.485	0.3	5.93	1.5	109	AC	2.0	1.5	UBEHEBE CRATER
26 19: 0: 7	36.731	118.034	1.0	35.07	1.1	310	BD	---	1.0	CAMP DESERT ROCK
27 0:24:20	37.502	115.427	1.3	30.34	2.4	170	CD	---	2.1	MT IRISH
28 20:32:49	36.877	117.403	1.2	1.76	1.8	198	BD	1.3	1.3	TIN MTN
30 2: 5:47	36.984	117.409	0.4	0.58	0.5	145	AC	---	1.2	TIN MTN
30 8:40:24	37.926	115.755	0.8	4.83	0.4	193	CD	2.0	---	WHITE BLOTCH SPRINGS
30 12:54: 8	36.740	116.302	0.2	0.07	0.2	100	AB	---	0.2	STRIPED HILLS
30 14: 9: 8	36.092	116.129	1.0	3.02	4.5	266	BD	---	1.1	SPECTER RANGE NW
30 18:20:43	36.300	115.827	0.2	10.14	0.9	123	AC	---	1.0	MT STIRLING
31 10:11:54	36.652	116.150	1.2	2.70	3.4	269	BD	1.5	1.0	SPECTER RANGE NW
APR 1 5:35:15	36.781	116.270	0.3	0.90	0.6	135	AB	1.3	1.0	JACKASS FLATS
2 3:42:33	37.070	115.046	0.4	2.12	1.1	110	AB	1.5	0.9	HIKO NE
2 10:31:21	36.025	116.090	0.3	-0.49	0.5	111	AC	1.4	1.3	CAMP DESERT ROCK
3 0:34:55	37.315	116.407	0.6	2.04	1.6	103	AC	1.7	1.0	SILENT BUTTE
3 12: 5:25	37.005	115.052	0.4	4.44	1.7	111	AC	2.0	1.7	HIKO NE
4 20:20:50	36.028	116.086	0.2	6.49	1.2	111	AB	2.1	2.0	CAMP DESERT ROCK
4 20:25:24	36.027	116.084	0.3	7.05	1.0	112	AB	1.1	1.4	CAMP DESERT ROCK
4 20:41:21	36.028	116.086	0.3	7.53	0.9	111	AB	1.2	1.4	CAMP DESERT ROCK
4 21:10:50	36.022	116.090	0.5	1.56*	---	120	CC	---	0.8	SPECTER RANGE SE
4 23:36:50	36.029	116.084	0.4	6.83	1.3	113	AB	---	0.9	CAMP DESERT ROCK
5 0:37:46	36.028	116.085	0.3	7.11	1.1	113	AB	---	1.1	CAMP DESERT ROCK
5 2:57: 6	36.085	116.160	0.6	8.42	0.7	119	AB	1.2	0.9	MINE MTN
5 3:29:17	36.753	115.910	0.2	10.07	0.[illegible]	169	AC	1.5	1.5	FRENCHMAN FLAT
5 5:17: 4	36.944	116.210	0.2	9.20	0.4	105	AB	1.2	1.[illegible]	MINE MTN
5 6:20:21	36.026	116.085	0.2	6.59	0.9	111	AB	1.3	1.1	CAMP DESERT ROCK
5 8: 3:10	36.027	116.091	0.4	6.72	1.4	90	BB	1.3	1.2	CAMP DESERT ROCK
5 17: 5:41	36.027	116.086	0.3	5.84	1.4	114	AC	---	1.0	CAMP DESERT ROCK
5 18:32:42	36.030	116.085	0.3	7.29	1.4	110	AB	1.6	1.2	CAMP DESERT ROCK
5 18:47:20	37.559	117.163	0.4	7.02	2.2	125	BC	1.7	1.0	GOLDFIELD
5 18:59:36	36.039	116.107	1.2	0.49	1.0	285	BD	2.2	---	CAMP DESERT ROCK
5 21:46:34	36.028	116.089	0.3	4.07	1.5	110	AC	1.3	1.0	CAMP DESERT ROCK
6 1:37: 7	36.760	115.915	0.4	7.93	1.0	139	AC	---	0.9	FRENCHMAN FLAT
6 6:39:46	36.025	116.089	0.6	5.00	2.6	122	BC	---	0.7	CAMP DESERT ROCK
6 7: 7:39	36.757	115.919	0.7	9.26	1.2	190	AD	---	0.9	FRENCHMAN FLAT
6 19: 9:54	36.023	116.089	0.4	6.02	1.7	114	AB	---	1.1	SPECTER RANGE SE
6 12:16:57	36.703	116.004	0.2	6.38	0.9	91	AB	1.7	1.7	CAMP DESERT ROCK
6 12:35:25	36.024	116.088	0.2	7.16	0.7	114	AB	---	0.7	SPECTER RANGE SE
6 18:57:10	36.984	116.399	0.3	0.74	0.4	152	AC	---	0.3	TOPOPAH SPRING NW
6 19:42:19	37.705	115.033	0.3	2.49	0.7	122	AC	2.5	1.0	HIKO NE
7 9:11:11	37.001	115.966	1.1	4.05	2.7	224	BD	---	1.1	PAIUTE RIDGE
7 9:25:11	37.205	116.197	0.6	3.74	3.7	169	BC	1.5	1.0	RAINIER MESA
7 17:23: 2	36.753	115.911	0.2	10.10	0.3	137	AC	1.3	1.0	FRENCHMAN FLAT
7 17:31:44	36.755	115.909	0.3	10.74	0.0	101	AC	---	0.9	FRENCHMAN FLAT
8 0:53:53	37.232	114.921	1.1	10.88	2.0	232	BD	---	1.4	DELAMAR 3 NW
8 21:1[illegible]: 7	36.027	116.083	0.4	7.03	1.1	115	AB	---	0.9	CAMP DESERT ROCK
9 14:32:42	36.354	117.479	0.6	4.09	5.5	241	CD	---	1.4	PAHAMINT BUTTE
10 1:20:39	36.028	116.085	0.3	7.11	0.9	113	AB	1.5	1.2	CAMP DESERT ROCK
11 0:37:59	36.739	116.129	0.2	0.40	0.2	135	AC	---	0.0	SPECTER RANGE NW
11 4: 1:43	37.102	115.973	1.0	4.03	1.7	102	BD	---	0.9	JANGLE RIDGE
11 15:46:11	36.010	116.136	1.0	2.02	1.4	230	BD	---	1.4	STEWART VALLEY
11 18:42:19	36.747	116.040	0.5	4.26	0.0	156	AC	---	0.4	BIG DUNE
12 20:20:50	36.000	115.014	0.3	5.03	3.4	81	BC	2.2	1.4	HEAVENS WELL
12 22:24:17	36.753	115.921	0.3	6.00	0.0	133	AB	---	0.7	FRENCHMAN FLAT
13 11: 2:23	36.410	116.990	0.4	11.74	0.7	90	AB	---	1.0	FURNACE CREEK
14 4:10:55	37.002	115.030	0.7	1.79	2.0	110	BB	---	0.7	HIKO NE
14 0: 0: 1	36.947	117.371	0.7	4.91	1.5	191	AD	---	0.7	TIN MTN
14 13:10:21	36.001	117.547	0.0	10.75	1.4	195	AD	---	1.2	DRY MTN
14 20: 4:15	36.757	116.204	0.3	4.01	0.4	164	AC	---	0.1	JACKASS FLATS
14 22:20:12	36.031	115.030	0.6	0.69	1.7	295	AD	---	0.9	FRENCHMAN FLAT
15 0:45:29	36.020	116.091	0.2	5.50	1.0	115	AC	---	0.0	SPECTER RANGE SE
15 0:42: 5	36.050	116.233	0.4	4.30	0.0	207	AD	---	0.0	SPECTER RANGE NW
16 1:53:31	36.029	116.002	0.0	7.23	2.1	126	BB	---	0.5	CAMP DESERT ROCK
16 6:49:57	37.310	115.224	0.0	11.20	2.0	111	BB	---	1.3	ALAMO
16 8:21: 0	37.309	115.210	0.0	7.27	2.4	110	BC	---	1.4	ALAMO
16 13:37:12	37.174	116.311	0.2	3.95	0.5	91	AB	1.0	1.9	AMMONIA TANKS
17 10:10:22	36.707	116.200	0.4	1.70	1.1	122	AB	---	0.5	JACKASS FLATS

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1985 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
APR 17	11: 3:16	36.858	116.408	0.3	5.30	0.4	182	AB	0.4	-0.2	TOPOPAH SPRING SW
17	14:30:35	37.172	116.321	0.2	2.96	0.3	83	AB	1.4	1.3	AMMONIA TANKS
17	18:40:52	36.964	116.029	2.1	3.75*	---	298	CD	---	1.1	YUCCA LAKE
17	23:42:13	37.118	117.417	0.3	1.74	0.9	124	AC	1.5	1.4	UBEHEBE CRATER
18	0: 1:49	37.794	115.838	0.5	9.59	0.8	144	AC	---	1.4	***QUAD. NOT LISTED***
18	11:38:52	37.235	114.898	1.0	2.00	3.7	230	BD	1.9	---	DELAMAR 3 NW
18	12:49: 0	37.257	114.938	4.8	14.07	0.8	222	CD	---	0.2	DELAMAR LAKE
18	17:51:25	37.884	117.269	1.6	4.07	0.9	145	CD	---	1.1	UBEHEBE CRATER
18	22:21:59	36.768	116.218	0.4	-0.49	0.3	224	AD	---	0.6	SPECTER RANGE NW
18	23:26: 2	37.294	117.031	0.4	10.78	1.0	78	AB	---	1.3	MAGRUDER MTN
19	7: 7: 8	37.233	114.899	1.0	8.83	4.3	235	BD	2.1	1.9	DELAMAR 3 NW
19	11:49:13	37.491	116.690	0.1	1.88	0.4	183	AC	---	1.1	BLACK MTN NW
20	6:24: 1	37.242	114.814	0.4	0.87	0.4	188	AD	2.0	1.5	DELAMAR 3 NW
21	4: 3:57	37.434	117.227	0.4	12.99	1.0	130	AB	---	1.7	STONEWALL PASS
21	12:42:35	37.248	115.423	0.9	1.54	1.9	151	AC	---	1.5	DESERT HILLS NW
21	16:46:20	36.886	115.889	0.6	9.69	0.8	218	AD	---	1.1	FRENCHMAN LAKE SE
21	20: 6:14	37.113	114.894	4.8	14.34	8.1	201	CD	---	1.3	DELAMAR 3 SW
23	6:56: 4	37.142	117.858	0.4	11.31	1.9	112	AB	---	1.0	BONNIE CLAIRE
23	23: 1:58	36.772	116.247	0.3	8.37	0.3	172	AC	1.3	0.9	SKULL MTN
24	0: 2:23	37.402	115.811	0.5	7.81	3.7	97	BC	1.7	1.7	GROOM RANGE NE
24	19:34:14	37.404	115.528	0.5	13.54	1.8	119	AD	---	1.3	GROOM RANGE NE
25	0:45:11	36.947	117.755	1.1	7.00**	5.9	2[illegible]1	BD	---	1.4	WAUCOBA WASH
26	4: 3:15	37.485	118.025	4.8	13.87	0.6	264	CD	3.0	---	***REGIONAL***
27	4:21:33	36.760	116.922	0.5	5.08	2.2	136	BC	1.5	1.3	FRENCHMAN FLAT
27	19:24:24	36.524	116.596	0.2	10.04	1.3	118	AB	2.0	1.9	BIG DUNE
28	20:21:34	36.696	116.125	0.7	7.40	2.6	188	BD	---	0.5	SPECTER RANGE NW
29	1:46:49	37.298	115.170	0.5	8.10	1.2	138	AC	---	1.5	ALAMO
30	12:11:51	36.539	116.056	2.0	1.09	3.2	311	BD	---	1.5	SPECTER RANGE SE
MAY 2	3:25:11	37.675	115.041	0.5	2.08	1.2	111	AB	1.5	1.2	HIKO NE
2	14:31:41	36.714	116.232	0.3	4.10	0.7	139	AC	---	0.6	SPECTER RANGE NW
3	11:24:41	36.951	116.455	1.2	11.71	1.2	182	BD	---	0.5	TOPOPAH SPRING NW
3	14:13:49	37.089	116.448	0.4	11.61	0.3	221	AD	---	0.3	TIMBER MTN
3	14:17:17	36.999	116.439	0.2	9.50	0.4	85	AA	1.8	1.4	TOPOPAH SPRING NW
3	14:40:22	36.997	116.438	0.5	10.04	0.5	282	AD	---	0.2	TOPOPAH SPRING NW
4	3:22:45	37.481	118.094	9.0	6.78	3.2	307	DD	3.3	---	***REGIONAL***
6	4:59:4[illegible]	37.310	117.328	0.5	7.02	0.8	145	AC	---	1.3	GOLD POINT
6	8: 3: 4	37.307	117.322	0.6	8.16	0.9	144	AC	---	1.4	GOLD POINT
7	20: 6:10	36.884	116.048	0.2	9.97	0.5	68	AA	2.7	---	SPECTER RANGE SE
7	20:28: 4	36.885	116.049	0.3	8.51	1.0	130	AB	1.7	1.2	SPECTER RANGE SE
7	20:52:45	36.882	116.047	0.2	9.52	0.6	131	AB	1.3	1.4	SPECTER RANGE SE
7	20:53:19	36.884	116.050	0.1	8.98	0.5	129	AB	1.1	1.5	SPECTER RANGE SE
7	21: 5:18	36.888	116.047	0.2	9.42	0.5	132	AB	---	1.1	SPECTER RANGE SE
7	21: 6: 8	36.887	116.047	0.2	5.58	2.0	129	BB	2.3	---	SPECTER RANGE SE
7	21: 8:23	36.884	116.050	0.2	8.61	0.6	67	AB	1.9	1.8	SPECTER RANGE SE
7	21: 9.51	36.883	116.048	0.2	9.23	0.7	130	AB	2.1	2.7	SPECTER RANGE SE
7	21:11:37	36.882	116.048	0.2	9.11	0.6	131	AB	1.8	1.1	SPECTER RANGE SE
7	21:14:31	36.598	116.048	0.3	9.33	0.6	148	AC	---	1.1	SPECTER RANGE SE
7	21:19:43	36.885	116.047	0.3	9.25	1.0	138	AB	2.2	---	SPECTER RANGE SE
7	22:33:23	36.886	116.046	0.2	8.38	1.0	138	AB	2.2	---	SPECTER RANGE SE
7	22:43:19	36.888	116.045	0.2	9.78	0.9	132	AC	1.4	1.3	SPECTER RANGE SE
7	22:53:29	36.881	116.048	0.2	9.76	0.8	132	AB	1.3	1.6	SPECTER RANGE SE
7	22:53:38	36.883	116.048	0.2	9.43	0.5	138	AB	---	1.4	SPECTER RANGE SE
7	23:49:29	36.598	116.044	0.4	10.78	0.8	152	AC	---	1.2	SPECTER RANGE SE
8	8:15:17	36.598	116.052	0.2	9.09	0.5	146	AC	---	1.0	SPECTER RANGE SE
8	8:31:42	37.426	116.092	0.3	7.00**	2.2	53	BA	1.7	1.9	WHEELBARROW PEAK NE
8	9:21: 8	36.600	116.045	0.2	9.77	0.5	149	AC	1.8	1.4	SPECTER RANGE SE
8	10:19:48	36.597	116.045	0.2	10.06	0.8	134	AB	1.1	1.5	SPECTER RANGE SE
8	11: 1:18	36.599	116.049	0.2	8.89	0.5	132	AB	1.8	1.4	SPECTER RANGE SE
8	20:49:47	37.366	115.214	0.3	8.25	0.5	181	AC	1.9	2.2	ALAMO
8	20:55: 1	37.367	115.207	0.4	2.72	2.7	128	BC	---	1.3	ALAMO
8	22:44:14	37.173	116.319	1.0	3.84	1.9	158	AC	---	1.8	AMMONIA TANKS
8	22:45:41	36.882	116.048	0.2	8.38	0.6	131	AB	1.8	1.5	SPECTER RANGE SE
9	18: 3:46	36.881	116.048	0.2	6.96	0.8	131	AB	---	1.3	SPECTER RANGE SE
10	18:25:00	36.885	116.048	0.2	10.25	0.4	131	AB	2.1	---	SPECTER RANGE SE
11	5:58: 8	37.205	117.882	0.8	8.18	1.9	154	AC	---	1.2	LAST CHANCE RANGE
11	15:56: 1	36.632	117.128	0.3	5.86	1.4	108	AC	---	1.8	STOVEPIPE WELLS

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAY 12 11:12:45	36.615	116.452	0.3	6.19	0.7	274	AD	---	0.7	LATHROP WELLS SW
13 10:37:53	36.600	116.054	0.2	9.09	0.5	129	AB	---	1.1	SPECTER RANGE SE
13 13:45:28	36.601	116.052	0.1	7.66	0.4	130	AB	---	1.3	SPECTER RANGE SE
13 16:49:36	37.677	115.855	0.4	1.99	1.1	187	AC	---	1.1	MIKO NE
13 16:58:47	37.683	115.868	0.3	1.48	1.2	166	AC	---	1.1	MIKO NE
14 14:27:29	36.599	116.049	0.2	9.23	0.4	131	AB	---	1.0	SPECTER RANGE SE
14 14:38:53	36.602	116.052	0.5	3.46	4.5	144	BC	---	0.7	SPECTER RANGE SE
15 0:10: 9	36.601	116.049	0.2	9.51	0.4	131	AB	---	1.4	SPECTER RANGE SE
15 5:30: 8	37.081	116.100	0.2	4.40	1.1	187	AB	---	1.0	TIPPIPAH SPRING
15 5:43:37	37.284	117.891	0.3	3.65	1.2	86	AB	---	1.1	MAGRUDER MTN
15 7: 0: 5	36.840	116.261	0.7	4.37	0.6	281	AD	---	1.0	STRIPED HILLS
15 7:27:10	36.614	116.270	0.1	3.79	0.6	83	AB	1.6	1.3	LATHROP WELLS SE
15 10:29:14	37.455	115.309	0.4	0.46	1.0	73	AC	2.3	---	HANCOCK SUMMIT
15 11:14: 9	37.455	115.308	0.4	6.85	3.0	84	BC	2.4	---	HANCOCK SUMMIT
15 12:17: 1	37.455	115.291	1.1	13.69	2.1	240	BD	---	1.4	HANCOCK SUMMIT
15 12:57: 3	37.483	115.298	0.7	9.97	2.0	202	AD	---	0.2	HANCOCK SUMMIT
15 13: 7:39	37.277	117.560	0.4	6.80	0.7	84	AB	---	1.2	MAGRUDER MTN
15 13:16: 8	36.399	116.055	0.2	7.96	0.5	144	AC	---	1.1	SPECTER RANGE SE
15 13:23: 6	37.289	117.591	0.5	4.67	1.4	88	AB	---	1.1	MAGRUDER MTN
15 13:55:56	37.455	115.315	0.4	5.12	5.0	85	BC	---	1.0	HANCOCK SUMMIT
15 14:34: 8	37.270	117.595	0.3	8.25	0.8	87	AA	1.9	1.6	MAGRUDER MTN
15 19:32:38	37.456	115.312	0.2	4.22	4.8	88	BC	---	1.5	HANCOCK SUMMIT
16 1:17:23	36.645	116.202	0.9	-0.53	4.6	261	AD	---	0.8	STRIPED HILLS
16 3:34:56	37.133	117.513	0.3	4.37	3.0	147	BC	---	1.1	LAST CHANCE RANGE
16 5:48: 1	37.453	115.311	0.2	8.17	1.0	116	AC	---	1.4	HANCOCK SUMMIT
16 9:28: 5	37.103	116.987	0.2	7.49	1.0	104	AB	1.2	1.1	SPRINGDALE
16 10:51:59	36.616	116.265	0.4	4.17	0.6	199	AD	1.3	0.7	LATHROP WELLS SE
16 15:22:50	37.274	117.591	0.3	6.83	0.5	72	AA	1.4	1.7	MAGRUDER MTN
16 15:23:44	37.278	117.592	0.2	5.04	0.6	75	AB	---	1.5	MAGRUDER MTN
16 16:11:44	36.789	115.924	0.2	3.82	2.0	173	BC	1.3	0.9	FRENCHMAN FLAT
17 3:38: 8	36.478	116.571	0.3	8.28	1.2	116	AB	1.7	1.5	RYAN
17 4: 7:56	37.648	116.084	0.2	4.51	2.1	73	BC	1.8	1.6	BELTED PEAK
17 4:11:33	37.650	116.083	0.2	9.95	0.3	117	AC	---	1.7	BELTED PEAK
17 22:30:14	36.599	116.048	0.3	5.01	1.2	148	AC	---	0.9	SPECTER RANGE SE
18 1: 7:31	37.462	115.311	0.2	7.05	1.0	84	AC	1.8	1.7	HANCOCK SUMMIT
19 0:36:11	36.854	116.228	0.3	10.08	0.4	108	AB	---	1.0	SKULL MTN
19 0:33:51	36.851	116.231	0.3	9.24	0.5	111	AB	---	1.0	SKULL MTN
19 0:45:36	36.575	117.434	0.4	4.81	1.5	218	AD	---	1.6	MARBLE CANYON
19 1: 2:29	36.851	116.240	0.3	8.13	0.5	107	AB	---	0.4	SKULL MTN
19 11:15:25	36.888	116.891	0.2	2.57	0.7	95	AC	1.5	1.0	BARE MTN
19 17:45: 7	37.018	116.469	0.3	9.26	0.3	229	AD	---	0.5	TIMBER MTN
19 17:47:32	37.024	116.471	0.2	9.09	0.3	233	AD	1.3	0.6	TIMBER MTN
19 18: 0:20	37.024	116.484	0.2	10.34	0.4	25	AA	2.4	---	TIMBER MTN
19 18: 7:35	37.024	116.467	0.2	10.04	0.3	195	AD	1.7	1.7	TIMBER MTN
19 18: 8:40	37.028	116.472	0.5	9.75	0.4	250	AD	---	0.5	TIMBER MTN
19 18: 8:43	37.022	116.467	0.2	9.52	0.3	194	AD	1.6	1.6	TIMBER MTN
19 18:12:27	37.025	116.468	0.2	10.18	0.3	195	AD	---	0.9	TIMBER MTN
19 18:12:42	37.022	116.471	0.3	10.58	0.3	196	AD	1.0	1.2	TIMBER MTN
19 18:13:34	37.022	116.465	0.3	10.04	0.3	193	AD	1.5	1.9	TIMBER MTN
19 18:17: 1	37.023	116.469	0.2	9.53	0.5	92	AB	1.6	1.0	TIMBER MTN
19 18:20:44	37.018	116.459	0.4	8.87	0.4	190	AD	---	1.5	TIMBER MTN
19 18:33:33	37.020	116.463	0.5	10.85	0.7	134	AB	---	0.6	TIMBER MTN
19 18:39:34	37.023	116.474	0.3	10.05	0.5	198	AD	1.8	---	TIMBER MTN
19 18:41:39	37.022	116.467	0.2	10.04	0.3	194	AD	---	1.5	TIMBER MTN
19 18:45: 7	37.032	116.473	0.3	10.37	0.4	253	AD	---	0.6	TIMBER MTN
19 18:51:21	37.026	116.478	0.5	9.56	0.6	248	AD	---	0.6	TIMBER MTN
19 18:54:20	37.019	116.467	0.9	10.48	0.9	240	AD	---	0.5	TIMBER MTN
19 18:59:44	37.024	116.471	0.2	9.02	0.3	196	AD	---	0.9	TIMBER MTN
19 19: 0:19	37.020	116.468	0.3	10.43	0.3	194	AD	---	1.8	TIMBER MTN
19 19: 1:48	37.023	116.472	0.2	8.36	0.5	93	AB	1.3	0.9	TIMBER MTN
19 19: 5:19	37.023	116.474	0.3	10.34	0.3	197	AD	1.5	0.8	TIMBER MTN
19 19:13:27	37.023	116.475	0.3	9.05	0.5	190	AD	2.0	---	TIMBER MTN
19 19:17: 6	37.024	116.476	0.2	9.53	0.2	198	AD	1.2	0.7	TIMBER MTN
19 19:20:10	37.022	116.468	0.3	10.30	0.4	194	AD	---	0.9	TIMBER MTN
19 19:39:21	37.030	116.475	0.4	11.23	0.3	253	AD	---	0.7	TIMBER MTN
19 19:40:28	37.023	116.474	0.2	10.14	0.4	184	AD	1.2	0.6	TIMBER MTN

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1985 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAY 19	20: 1: 5	37.021	116.464	0.4	10.50	0.5	241	AD	---	0.5	TIMBER MTN
19	20: 2:28	37.022	116.469	0.3	10.11	0.3	195	AD	1.5	1.2	TIMBER MTN
19	20:17:24	37.022	116.466	0.3	10.41	0.3	195	AD	---	1.4	TIMBER MTN
19	20:27: 5	37.020	116.473	0.7	9.66	0.6	243	AD	---	0.5	TIMBER MTN
19	21: 0:50	37.022	116.468	0.2	10.34	0.3	195	AD	1.8	1.5	TIMBER MTN
20	14:39:47	37.453	115.324	0.7	1.21	2.0	211	BD	---	0.2	HANCOCK SUMMIT
20	15:16: 9	37.020	116.470	0.4	10.17	0.5	247	AD	---	0.5	TIMBER MTN
20	22:59:33	37.025	116.477	0.5	10.01	0.5	249	AD	---	0.4	TIMBER MTN
21	0:42:21	36.885	116.288	0.5	5.22	0.4	213	AD	---	0.7	STRIPED HILLS
21	18: 0:30	37.451	115.314	0.2	4.59	4.0	116	BC	---	1.1	HANCOCK SUMMIT
21	19:33: 3	37.454	115.317	0.2	2.77	1.0	93	AC	---	1.2	HANCOCK SUMMIT
21	21:28:59	37.022	116.467	0.4	10.09	0.3	242	AD	1.3	0.8	TIMBER MTN
22	16:45:13	37.451	115.314	0.2	5.04	3.3	86	BC	1.7	1.8	HANCOCK SUMMIT
22	22: 4:51	37.022	116.470	0.3	10.30	0.3	195	AD	1.3	1.2	TIMBER MTN
23	2:52: 5	36.815	116.287	0.2	4.98	0.6	81	AB	---	1.0	LATHROP WELLS SE
23	7:22:35	36.816	116.281	0.3	2.10	0.6	120	AB	---	1.1	LATHROP WELLS SE
23	7:23: 4	36.814	116.270	0.1	5.13	0.5	83	AB	1.5	1.1	LATHROP WELLS SE
23	9:30:19	36.787	116.298	0.4	4.23	0.6	164	AC	1.1	0.5	JACKASS FLATS
23	17:54:17	37.495	115.459	0.2	13.82	0.8	93	AB	---	1.2	CRESCENT RESERVOIR
23	18:55:53	36.681	116.050	0.2	9.58	0.4	131	AB	---	1.0	SPECTER RANGE SE
23	22: 5:19	37.354	114.696	0.5	2.71	2.0	211	BD	1.6	1.7	ELGIN SW
24	1:57:48	36.354	116.884	0.3	8.39	1.2	98	AB	1.2	1.3	FURNACE CREEK
24	2:38:49	37.021	116.467	0.3	9.66	0.5	194	AD	2.1	1.2	TIMBER MTN
24	20:39:53	37.388	115.328	0.3	2.66	1.8	158	AC	---	1.0	HANCOCK SUMMIT
25	5:34:14	37.098	115.778	1.0	13.59	1.7	231	AD	---	1.0	PAPOOSE LAKE SE
25	15:21:58	36.821	115.936	0.4	5.20	2.3	182	BD	1.2	0.7	FRENCHMAN FLAT
25	22:28: 3	37.198	114.925	1.0	2.75	5.5	243	CD	2.1	---	DELAMAR 3 NW
26	21:49:37	37.232	114.918	0.7	5.65	2.7	234	BD	---	1.5	DELAMAR 3 NW
26	21:51:18	37.027	116.472	0.4	10.85	0.3	249	AD	---	1.1	TIMBER MTN
27	2: 6: 5	37.028	116.480	0.2	7.29	0.8	95	AB	1.2	0.5	TIMBER MTN
27	4:37:49	37.311	114.900	0.8	5.37	3.4	214	BD	---	1.0	DELAMAR LAKE
27	18: 5: 9	36.684	116.324	0.3	5.31	0.6	160	AC	---	0.3	STRIPED HILLS
28	14:24:50	36.836	116.254	0.2	4.97	0.8	114	AB	2.0	1.4	JACKASS FLATS
30	4:47: 0	37.006	116.190	0.3	8.48	0.4	169	AC	---	0.8	TIPPIPAH SPRING
30	5:46:21	37.113	116.262	0.2	7.13	0.7	72	AB	2.0	2.0	BUCKBOARD MESA
30	7:[illegible]:26	37.238	114.910	0.3	1.53	0.8	178	AC	1.7	1.9	DELAMAR 3 NW
30	8:21:58	37.023	116.463	0.2	8.46	0.6	87	AA	1.5	1.1	TIMBER MTN
30	9: 5: 7	37.387	114.663	1.4	2.17	4.4	258	BD	1.8	1.6	SLIDY MTN
30	12:28:52	36.748	116.242	0.3	6.51	0.3	242	AB	1.6	1.0	SPECTER RANGE NW
30	12:41: 9	36.598	116.049	0.2	8.02	0.8	187	AB	1.3	1.1	SPECTER RANGE SE
30	19:21:18	37.278	116.231	0.7	14.40	1.2	328	AD	---	0.9	QUARTET DOME
31	1:38: 2	36.454	117.278	0.3	4.69	1.5	197	AD	---	1.5	PAHAMINT BUTTE
31	22:29:52	37.020	116.465	0.3	10.04	0.3	193	AD	1.7	1.4	TIMBER MTN
JUN 2	17: 3:36	37.026	116.469	0.3	9.77	0.5	281	AD	---	0.7	TIMBER MTN
2	17: 5:34	36.840	116.254	0.3	7.37	0.7	110	AB	1.0	0.6	JACKASS FLATS
2	18:22:27	37.026	116.462	0.2	10.11	0.3	193	AD	---	0.6	TIMBER MTN
2	21:22:13	36.481	116.590	0.2	3.98	1.8	124	AC	2.0	1.4	RYAN
2	21:23: 3	36.472	116.593	0.6	5.99	2.6	198	BD	---	1.1	RYAN
3	2:44:23	37.020	116.476	0.5	10.60	0.5	244	AD	1.1	0.4	TIMBER MTN
3	4:16:22	37.108	116.784	0.2	-0.25	0.2	129	AB	---	0.9	SPRINGDALE
3	8:32:57	37.023	116.464	0.1	9.86	0.4	49	AA	2.2	1.7	TIMBER MTN
3	15:33:18	37.177	116.745	0.2	0.58	0.2	187	AC	---	1.1	THIRSTY CANYON NW
3	19: 1:50	36.388	116.985	0.4	13.10	0.6	84	AA	---	0.9	FURNACE CREEK
3	20:41: 8	36.917	116.187	1.8	2.32	4.4	257	BD	---	1.9	***REGIONAL***
4	23: 8: 7	37.020	116.472	0.3	8.65	0.5	269	AD	---	0.3	TIMBER MTN
6	6: 8:57	37.463	115.388	0.3	8.54	1.9	89	AC	---	6.9	HANCOCK SUMMIT
6	23:22: 9	37.182	116.092	0.2	-0.61	0.2	100	AB	1.7	1.7	OAK SPRING
7	12:35: 9	37.264	116.044	0.3	7.71	0.5	178	AC	---	1.3	OAK SPRING BUTTE
7	13:13:35	37.616	117.436	0.2	7.02	0.6	97	AB	---	1.4	MONTEZUMA PEAK SW
7	13:39: 9	36.441	116.753	0.3	6.12	2.2	104	BC	1.7	1.6	FURNACE CREEK
7	22:19:18	36.938	116.803	0.8	3.20*	---	290	CD	1.3	0.8	BULLFROG
8	6:28:52	36.833	116.288	0.3	4.28	0.9	116	AB	1.7	1.2	JACKASS FLATS
8	9:29: 9	36.834	116.258	0.2	8.14	0.4	142	AC	0.8	0.9	JACKASS FLATS
8	11:50:43	36.839	116.258	0.3	4.96	0.7	145	AC	1.0	0.5	JACKASS FLATS
9	16:17:57	36.628	116.381	0.6	5.06	0.5	313	AD	---	0.9	STRIPED HILLS
9	22:30:32	37.670	115.882	0.3	6.35	1.3	104	AB	---	1.3	HIKO NE

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUN 10 8:18:58	36.885	116.046	0.2	0.92	0.5	68	AB	1.9	1.3	SPECTER RANGE SE
10 16:52:16	37.025	116.469	0.3	9.16	0.4	198	AD	---	0.8	TIMBER MTN
11 20:18:42	36.761	116.251	0.2	0.42	0.2	175	AC	1.2	0.8	JACKASS FLATS
12 18:38:49	37.370	116.238	0.9	10.85	1.3	238	AD	---	1.6	QUARTET DOME
12 23: 8:16	36.708	115.786	2.3	3.84	2.3	222	DD	---	0.9	MERCURY NE
13 0:58:38	37.252	116.490	0.5	2.61*	---	45	CC	2.2	---	SILENT BUTTE
13 1:31:35	37.257	116.475	1.0	7.00**	4.0	63	BC	2.7	---	SILENT BUTTE
13 7:45:18	37.675	114.872	2.2	1.53	6.2	160	CC	1.6	---	PAHROC SPRING NE
13 23: 3: 4	36.500	116.388	0.2	1.71	0.8	126	AC	---	0.9	LATHROP WELLS SW
13 23:23:28	37.089	116.464	2.4	0.98	1.8	298	BD	---	0.5	TIMBER MTN
14 4:20: 8	36.813	115.863	0.4	4.95	1.2	185	AD	---	1.1	FRENCHMAN LAKE SE
14 13:22:39	37.236	116.514	0.2	4.39	1.4	157	AC	1.6	0.9	THIRSTY CANYON NE
14 18:52:27	36.927	116.178	1.2	6.31	1.4	272	BD	---	0.7	MINE MTN
15 1: 9:56	37.165	117.281	0.3	6.56	1.1	93	AC	---	1.0	UBEHEBE CRATER
15 2:47:19	37.028	116.478	0.4	6.43	0.8	200	AD	---	0.6	TIMBER MTN
16 1:16: 9	36.804	116.054	0.2	7.00	0.6	72	AB	---	1.0	SPECTER RANGE SE
16 6:47:57	37.005	116.416	0.3	12.46	0.2	189	AD	---	0.3	TIMBER MTN
16 7: 8:10	36.991	116.419	0.4	10.74	0.5	179	AC	---	0.7	TOPOPAH SPRING NW
16 17:15:59	37.195	116.568	0.3	0.11	1.0	153	AC	1.4	1.0	THIRSTY CANYON NE
18 1: 1: 8	36.672	116.267	0.2	0.06	0.3	99	AB	1.5	0.8	STRIPED HILLS
18 1: 3:23	36.672	116.266	0.1	0.21	0.3	95	AB	1.1	0.8	STRIPED HILLS
18 4:28:59	35.611	116.496	4.9	22.13	2.2	212	CD	2.6	---	AVAWATZ PASS
18 14:31:47	37.285	115.162	0.3	5.99	1.2	143	AC	1.9	1.5	ALAMO
18 17: 6:27	36.674	116.524	0.1	7.44	0.5	168	AC	---	0.6	BIG DUNE
18 19:12:48	36.732	115.989	1.0	9.16	1.0	187	AD	---	0.9	MERCURY
19 12:34:24	36.724	116.774	1.8	2.37	2.7	328	BD	---	1.2	CHLORIDE CLIFF
19 13:52: 8	37.455	115.314	0.3	2.01	2.0	85	AC	---	1.2	HANCOCK SUMMIT
19 19:34:27	36.506	116.273	0.2	2.50	0.4	120	AC	---	0.9	LATHROP WELLS SE
19 23:25:27	36.027	117.158	0.4	4.29	0.1	268	CD	---	1.4	TELESCOPE PEAK
20 0:40: 5	36.718	116.020	0.4	0.25	0.8	176	AC	---	0.8	CAMP DESERT ROCK
20 4: 1:11	36.888	116.379	1.2	10.08	1.5	151	BC	---	0.3	TOPOPAH SPRING NW
20 7: 4:21	36.814	117.477	0.5	0.01	0.5	188	AD	---	1.3	TIN MTN
20 15:33:43	37.454	115.313	0.2	4.82	3.5	85	BC	1.8	1.7	HANCOCK SUMMIT
21 14:31: 7	36.839	116.322	0.6	3.43	0.5	278	AD	---	0.6	STRIPED HILLS
21 21: 1:54	36.432	117.053	0.5	10.53	0.9	217	AD	---	1.3	EMIGRANT CANYON
22 0:49: 0	36.637	117.125	0.2	1.18	0.8	105	AC	2.1	1.7	STOVEPIPE WELLS
22 0:59:44	36.632	117.138	0.2	1.82	0.6	105	AC	---	1.9	STOVEPIPE WELLS
22 2:24: 4	36.634	117.128	0.4	4.87	3.9	107	BC	---	1.6	STOVEPIPE WELLS
22 3:10: 3	37.452	115.318	0.3	0.88	1.8	139	AC	---	1.6	HANCOCK SUMMIT
22 9:34:40	36.888	115.970	0.3	3.90	1.2	185	AD	---	0.8	PLUTONIUM VALLEY
22 12:41:42	35.928	116.838	3.3	1.46*	---	284	CD	---	1.6	WINGATE WASH
22 21:49:24	36.832	117.134	0.4	6.39	2.0	189	BC	---	1.6	STOVEPIPE WELLS
23 1:15:57	37.001	116.228	0.2	4.38	0.5	77	AA	---	1.3	TIPPIPAH SPRING
23 2:34:37	37.161	114.813	0.7	4.22	9.2	249	CD	---	0.9	DELAMAR 3 NE
23 3: 5: 3	36.872	115.957	0.6	1.40	1.0	190	AD	---	0.8	FRENCHMAN FLAT
23 3:38:31	36.574	116.847	0.9	14.27	1.6	310	AD	---	0.7	BIG DUNE
23 4:25:00	36.830	116.073	0.2	0.24	0.3	233	AD	---	0.5	CANE SPRING
23 16:40:18	35.817	117.023	0.9	6.77	2.4	298	BD	---	1.4	MANLY PEAK
23 19: 1:22	37.218	116.511	0.2	2.54	0.6	71	AC	1.7	1.9	THIRSTY CANYON NE
23 19:41: 1	37.222	116.383	0.2	2.47	0.3	111	AB	1.5	1.2	SCRUGHAM PEAK
24 19:24:32	36.752	115.913	0.2	9.15	0.5	157	AC	---	1.2	FRENCHMAN FLAT
25 11:21:13	36.523	115.170	1.3	3.85	0.9	230	BD	2.1	---	HAYFORD PEAK
25 22:32:47	36.971	116.483	1.2	11.83	1.5	219	BD	---	0.8	TOPOPAH SPRING NW
28 12:12:54	36.754	115.919	0.2	8.98	0.5	156	AC	---	1.1	FRENCHMAN FLAT
28 9:11:31	36.754	115.907	0.2	11.07	0.4	161	AC	1.5	1.1	FRENCHMAN FLAT
28 20:12:33	36.753	115.915	0.2	11.30	0.3	135	AC	1.7	1.5	FRENCHMAN FLAT
29 2:13:46	36.749	115.919	0.3	7.90	0.7	153	AC	---	0.6	MERCURY
29 14: 2:31	36.753	115.920	0.1	8.65	0.3	155	AC	1.6	1.2	FRENCHMAN FLAT
30 21:53:55	36.837	116.239	0.2	4.86	0.8	122	AB	---	0.4	SKULL MTN
30 22: 0:38	36.834	116.240	0.2	3.38	0.9	125	AB	---	0.9	SKULL MTN
JUL 1 3:46:30	36.752	115.913	0.2	10.44	0.3	157	AC	1.6	1.4	FRENCHMAN FLAT
1 9:24:57	36.740	115.444	0.2	7.00**	4.3	169	BC	1.8	1.4	BLACK HILLS NW
1 17:59:50	36.876	115.834	0.9	20.72	1.1	319	AD	---	1.4	AYSEES PEAK
2 2:19:24	36.884	115.209	0.4	1.70	1.4	137	AC	1.4	1.0	MINE MTN
2 5:40:21	36.753	115.914	0.2	7.58	0.5	189	AD	---	0.6	FRENCHMAN FLAT
2 6:51: 9	37.189	117.073	0.2	5.17	1.7	161	AC	1.9	1.7	BONNIE CLAIRE SE

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUL 2 23: 9:46	37.659	115.273	0.4	2.73	0.4	88	AA	---	1.5	MT IRISH
3 6:20: 6	37.114	117.872	0.2	5.09	1.9	102	AC	---	0.8	BONNIE CLAIRE SE
3 18:37:54	36.747	115.918	0.2	10.04	0.3	153	AC	1.7	1.2	MERCURY
3 23:55:13	36.775	116.216	0.3	6.61	0.8	98	AB	---	0.4	SKULL MTN
4 8: 7: 4	36.618	116.431	0.4	10.04	0.7	207	AD	---	0.3	LATHROP WELLS SW
5 5:43:18	37.091	116.216	0.2	5.69	0.4	115	AB	---	0.7	TIPPIPAH SPRING
5 9:28:51	37.187	117.439	0.3	9.42	1.8	119	AC	---	1.3	UBEHEBE CRATER
6 1: 3:46	37.081	116.298	0.1	4.08	0.4	64	AB	---	1.3	BUCKBOARD MESA
6 6:59:30	37.223	116.533	0.2	6.04	0.7	145	AC	1.0	1.2	THIRSTY CANYON NE
6 11: 1:37	37.214	115.857	0.7	10.57	0.5	295	AD	---	1.0	JANGLE RIDGE
6 19:53:43	36.895	115.975	0.3	7.48	1.2	153	AC	---	0.4	PLUTONIUM VALLEY
7 2:33:13	36.890	115.975	0.3	6.35	0.8	152	AC	1.2	0.7	PLUTONIUM VALLEY
7 2:39:42	36.893	115.982	0.5	6.77	1.2	188	AD	---	0.6	PLUTONIUM VALLEY
7 14:36: 0	37.112	117.872	0.2	5.43	1.7	101	AC	---	1.2	BONNIE CLAIRE SE
8 1:29:22	37.328	117.815	0.4	7.21	0.8	191	AD	---	1.4	MAGRUDER MTN
8 6:20: 7	36.754	115.928	0.5	2.27	1.5	57	BC	1.4	---	FRENCHMAN FLAT
8 16: 2:17	36.756	115.920	0.2	5.78	0.6	65	AB	1.6	1.0	FRENCHMAN FLAT
9 8:53:36	37.414	118.490	5.5	7.00	2.2	293	DD	2.4	---	***REGIONAL***
10 16:40: 5	37.742	115.036	0.3	8.59	0.8	130	AB	---	1.3	MIKO NE
10 18:58:32	36.886	115.659	0.5	9.67	3.1	76	BB	1.9	1.7	INDIAN SPRINGS NW
11 2:43:34	36.879	117.721	2.3	7.70	1.2	254	BD	2.1	---	COSO PEAK
11 3:16: 9	36.888	117.881	3.5	-1.10	6.3	752	CD	1.9	---	COSO PEAK
11 21:55:42	36.817	116.204	0.2	7.48	0.4	85	AA	1.8	1.8	SKULL MTN
12 1:54:41	37.452	115.302	0.6	6.18	2.5	284	BD	---	1.0	HANCOCK SUMMIT
14 12:58:42	37.482	115.291	1.2	-0.10	0.7	223	BD	---	0.8	HANCOCK SUMMIT
14 14:22:43	36.850	116.409	0.3	8.79	0.5	214	AD	---	0.4	LATHROP WELLS NW
14 14:23: 6	36.547	116.409	0.4	9.06	0.5	244	AD	---	0.5	LATHROP WELLS NW
14 14:54: 7	36.663	116.410	0.2	4.34	0.8	178	AC	1.3	0.7	LATHROP WELLS NW
15 14:54:40	36.778	116.255	0.2	3.27	0.6	168	AC	---	0.2	JACKASS FLATS
16 3:54:28	36.885	116.222	0.6	3.86	1.3	120	AB	---	0.2	MINE MTN
16 18:15:50	37.089	116.878	0.2	8.02	0.3	99	AC	1.5	0.8	SPRINGDALE
16 21:34:54	36.687	116.312	0.7	2.81	1.0	177	AC	---	0.7	STRIPED HILLS
18 17:45:47	36.661	116.413	0.6	8.93	0.9	248	AD	---	0.7	LATHROP WELLS NW
19 18:48:50	36.710	116.169	0.2	4.05	1.5	93	AB	---	1.1	SPECTER RANGE NW
19 21:34: 4	37.689	115.025	0.2	2.92	0.5	120	AB	1.8	1.4	MIKO NE
20 7:34:39	36.721	115.966	0.3	4.86	0.8	139	AC	---	0.8	MERCURY
20 22:54: 1	37.189	117.406	0.6	6.15	3.3	114	BC	---	1.2	UBEHEBE CRATER
21 1:37:22	37.480	115.423	0.1	21.41	0.3	221	AD	---	1.3	CRESCENT RESERVOIR
22 20:30:19	36.767	115.919	0.6	6.85	1.6	196	AD	---	0.6	FRENCHMAN FLAT
23 3: 7:20	36.900	116.225	0.3	4.82	0.4	124	AB	---	0.3	MINE MTN
23 12:57:19	36.748	115.913	0.2	10.46	0.4	155	AC	---	0.8	MERCURY
23 12:57:37	36.750	115.914	0.2	9.91	0.3	134	AB	---	1.0	FRENCHMAN FLAT
23 23:37: 9	37.281	115.390	0.3	9.05	1.5	145	AC	---	1.1	CUTLER RESERVOIR
24 7:43: 2	37.687	115.027	0.3	8.02	0.5	118	AB	1.9	2.0	MIKO NE
25 17:58:52	37.855	116.038	0.8	1.86	2.0	223	AD	---	1.3	YUCCA FLAT
26 2: 5:27	37.358	116.087	0.2	4.71	0.7	88	AB	---	0.2	BLACK MTN SW
26 9:33:13	37.230	114.898	2.0	4.02*	---	237	CD	1.6	1.6	DELAMAR 3 NW
26 18:13: 6	37.220	115.118	0.7	2.15	1.0	188	AD	2.1	1.3	LOWER PAHRANAGAT LAKE
27 2:27:56	36.878	115.985	0.2	4.68	1.0	147	AC	---	0.6	PLUTONIUM VALLEY
27 5:41:13	37.105	116.748	0.2	1.44	0.7	133	AB	---	0.8	THIRSTY CANYON SW
28 6:53:12	36.905	115.968	0.4	3.80	3.5	157	BC	1.6	1.2	PLUTONIUM VALLEY
28 18:20:11	37.861	116.746	0.4	5.02	4.0	90	BB	1.4	1.2	THIRSTY CANYON SW
30 5:30: 5	37.152	116.878	0.4	6.08	1.5	198	AD	2.0	1.1	SPRINGDALE
30 5:43:44	37.142	116.874	0.1	8.66	0.2	111	AC	1.8	1.6	SPRINGDALE
30 6:34: 8	37.145	116.878	0.2	5.38	2.1	116	BC	1.5	1.4	SPRINGDALE
30 7: 5:45	37.145	116.881	0.2	9.74	1.8	116	AC	1.5	1.7	SPRINGDALE
30 7: 8: 6	37.149	116.889	0.3	7.73	1.3	200	AD	---	0.5	SPRINGDALE
30 7: 9:38	37.150	116.884	0.5	3.90	3.0	201	BD	---	0.7	SPRINGDALE
30 7:20:52	37.151	116.886	0.4	7.45	1.7	200	AD	---	1.0	SPRINGDALE
30 7:42:43	37.149	116.881	0.2	6.29	1.7	117	AC	---	1.5	SPRINGDALE
30 7:47: 1	37.148	116.883	0.2	9.02	1.0	118	AC	2.1	1.5	SPRINGDALE
30 7:48:40	37.148	116.866	0.2	9.32	1.4	88	AC	2.2	---	SPRINGDALE
30 7:53:18	37.148	116.874	0.5	5.41	2.1	196	BD	1.5	1.0	SPRINGDALE
30 7:54:49	37.144	116.886	0.2	6.43	1.0	118	AC	1.8	1.2	SPRINGDALE
30 8: 1:20	37.143	116.881	0.2	8.63	1.5	115	AC	1.9	2.0	SPRINGDALE
30 8: 3:33	37.149	116.878	0.2	13.11	0.7	197	AD	---	0.9	SPRINGDALE

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUL 30 8: 0:23	37.147	116.883	0.4	5.44	2.2	198	BD	---	1.1	SPRINGDALE
30 8:12: 7	37.148	116.886	0.3	12.64	1.8	199	AD	1.7	0.9	SPRINGDALE
30 8:18: 9	37.289	117.714	1.2	4.00	6.3	176	CC	---	1.2	MAGRUDER MTN
30 8:23:33	37.298	117.703	0.4	-1.10	0.4	157	AC	---	1.1	MAGRUDER MTN
30 8:36:40	37.145	116.879	0.1	7.17	0.5	49	AC	2.3	2.4	SPRINGDALE
30 8:39:17	37.143	116.876	0.3	9.10	1.8	79	AB	---	1.0	SPRINGDALE
30 8:43: 3	37.148	116.881	0.3	7.92	1.3	197	AD	---	1.0	SPRINGDALE
30 9:26:47	37.147	116.882	0.2	10.22	1.0	198	AD	1.5	1.2	SPRINGDALE
30 9:32:10	37.149	116.883	0.3	7.12	1.7	199	AD	---	1.0	SPRINGDALE
30 9:40:41	37.142	116.881	0.3	9.17	1.5	115	AB	1.5	1.0	SPRINGDALE
30 12:13:20	36.726	115.428	0.3	22.77	0.4	112	AB	2.0	1.0	BLACK HILLS NW
30 12:13:35	37.143	116.874	0.3	4.01	2.4	194	BD	1.6	1.0	SPRINGDALE
30 12:23:27	37.149	116.880	0.2	8.48	1.0	117	AB	2.1	1.4	SPRINGDALE
30 13: 3:38	37.146	116.885	0.4	4.66	3.4	198	BD	---	1.0	SPRINGDALE
30 13:34:13	37.146	116.884	0.2	9.95	1.4	116	AC	2.0	---	SPRINGDALE
30 14:29: 7	37.145	116.879	0.3	9.93	1.3	116	AC	---	1.0	SPRINGDALE
30 15: 4:24	37.145	116.879	0.1	7.65	0.5	49	AC	3.0	---	SPRINGDALE
30 15:14:39	37.139	116.881	0.2	9.75	1.0	114	AC	1.5	1.0	SPRINGDALE
30 15:19: 6	37.142	116.881	0.2	7.55	1.4	115	AC	1.6	1.3	SPRINGDALE
30 15:20:17	37.135	116.871	0.2	4.33	1.8	142	AC	---	1.0	SPRINGDALE
30 15:21:44	37.139	116.877	0.3	13.34	1.2	114	AB	---	1.1	SPRINGDALE
30 15:26:24	37.149	116.881	0.2	8.79	1.0	117	AC	---	1.2	SPRINGDALE
30 15:26:58	37.142	116.877	0.2	18.56	1.[illegible]	[illegible]	AC	2.1	2.3	SPRINGDALE
30 15:32:58	37.155	116.882	0.4	7.26	1.8	201	AD	---	1.0	SPRINGDALE
30 15:42: 6	37.142	116.883	0.2	10.11	1.4	115	AC	1.9	1.7	SPRINGDALE
30 16: 1:25	37.141	116.877	0.1	9.87	0.3	114	AC	1.1	1.0	SPRINGDALE
30 16: 6: 3	37.143	116.874	0.6	4.89	2.7	194	BD	---	0.9	SPRINGDALE
30 16:15:48	37.147	116.881	0.2	9.81	0.8	117	AC	1.7	1.4	SPRINGDALE
30 17: 0:53	37.140	116.876	0.5	4.63	4.5	114	BC	---	1.6	SPRINGDALE
30 17:18:43	37.141	116.863	0.6	4.38	2.5	196	BD	---	0.9	SPRINGDALE
30 17:21:33	37.147	116.882	0.2	9.55	1.5	117	AC	2.0	2.0	SPRINGDALE
30 20:10:21	37.130	116.826	0.5	1.92	1.6	210	AD	---	0.9	SPRINGDALE
30 21:39:58	37.138	116.879	0.4	7.11	2.6	142	BC	1.6	1.2	SPRINGDALE
30 22: 1:52	37.148	116.879	0.4	8.02	1.9	144	AC	1.5	1.6	SPRINGDALE
30 22: 4:23	37.156	116.876	0.2	-1.02	0.4	147	AC	1.7	---	SPRINGDALE
30 22:22:24	36.695	116.274	0.5	0.94	0.3	198	AD	---	0.6	STRIPED HILLS
30 22:24:28	37.145	116.875	0.2	0.05	0.3	144	AC	1.7	1.1	SPRINGDALE
30 22:59:14	37.145	116.880	0.3	10.42	1.1	144	AC	1.6	1.2	SPRINGDALE
31 2: 1:38	37.152	116.874	0.2	-1.09	0.4	148	AC	---	1.6	SPRINGDALE
31 2:13:31	37.156	116.881	0.3	7.33	1.4	228	AD	---	0.7	SPRINGDALE
31 2:30:31	37.142	116.885	0.2	13.76	0.8	143	AC	1.7	1.1	SPRINGDALE
31 8:19:12	37.153	116.875	0.2	-0.13	0.2	147	AC	1.2	1.4	SPRINGDALE
31 8:55:25	37.154	116.890	0.4	12.87	0.8	229	AD	---	1.1	SPRINGDALE
31 9:48:15	37.134	116.880	0.5	7.27	2.7	141	BC	1.9	1.9	SPRINGDALE
31 10: 1:31	37.152	116.879	0.3	5.07	1.3	228	AD	---	0.7	SPRINGDALE
31 10:52:44	37.139	116.881	0.3	8.01	1.7	142	AC	1.4	1.1	SPRINGDALE
31 11:42:51	36.713	115.488	0.3	16.87	1.4	101	AB	2.1	2.0	BLACK HILLS NW
31 22:22:40	37.144	116.877	0.3	0.54	0.4	152	AC	1.7	1.2	SPRINGDALE
AUG 1 1:22:25	37.150	116.896	0.2	1.17	5.0	148	CC	1.9	---	SPRINGDALE
2 14:19:21	37.281	116.874	0.3	0.85	0.4	185	AC	---	1.2	OAK SPRING BUTTE
2 16:45:58	37.146	116.888	0.3	13.02	0.9	199	AD	---	0.6	SPRINGDALE
2 17:53:10	37.148	116.879	0.2	6.68	1.6	89	AC	2.1	---	SPRINGDALE
2 17:55:41	37.156	116.878	0.3	6.23	2.5	120	BC	1.5	1.1	SPRINGDALE
2 17:57:50	37.146	116.879	0.2	9.73	0.9	116	AC	1.4	1.1	SPRINGDALE
2 18:19:45	37.144	116.879	0.2	10.28	1.0	116	AC	1.8	1.6	SPRINGDALE
2 18:36:17	37.147	116.883	0.3	4.23	2.7	198	BD	---	0.8	SPRINGDALE
2 19:13:18	37.147	116.883	0.2	11.54	0.8	198	AD	---	1.0	SPRINGDALE
2 19:21:17	37.143	116.879	0.2	9.77	1.1	88	AC	1.3	2.0	SPRINGDALE
2 19:50:25	37.714	115.057	0.2	7.42	1.2	116	AB	---	1.0	HIKO NE
3 1: 9:13	36.886	116.923	0.4	15.87	1.0	183	AC	1.8	1.9	BULLFROG
3 1:41:38	37.156	116.895	0.4	12.21	1.1	205	AD	---	0.5	SPRINGDALE
3 4:10:49	37.152	116.870	0.3	8.57	1.4	118	AB	1.6	1.1	SPRINGDALE
3 4:32:42	37.150	116.879	0.3	8.54	1.6	118	AC	---	0.9	SPRINGDALE
3 15:28:55	37.133	116.882	0.4	10.10	1.0	112	AB	1.6	1.4	SPRINGDALE
3 17:55:57	36.640	116.228	0.2	7.50	0.8	126	AB	1.3	1.0	SKULL MTN
3 19:32:57	37.334	115.268	1.1	0.14	4.7	153	BC	---	0.9	BADGER SPRING

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AUG 3 21:53:49	37.781	114.968	0.3	8.09	0.3	141	AC	---	0.0	PAHROC SPRING
4 6:37:15	37.141	116.881	0.3	11.84	1.5	81	AB	1.8	1.6	SPRINGDALE
4 6:49: 1	37.138	116.882	0.4	11.73	1.6	114	AB	1.4	1.5	SPRINGDALE
4 9:44: 5	36.834	115.949	0.3	8.71	1.3	158	AC	---	0.7	FRENCHMAN FLAT
5 18: 4:53	36.632	116.089	0.2	9.77	0.8	109	AC	---	0.7	CAMP DESERT ROCK
6 1: 0: 8	37.148	116.881	0.2	7.73	1.3	117	AC	1.6	1.1	SPRINGDALE
6 3:21:26	36.492	116.221	0.2	7.07	0.6	126	AB	---	0.9	AMARGOSA FLAT
6 23:58:19	37.249	116.491	0.3	-0.74	0.8	76	AC	---	1.8	SCRUGHAM PEAK
7 1:24: 1	37.048	116.243	0.5	12.30	0.6	195	AD	---	0.3	TIPPIPAH SPRING
7 1:30:34	37.146	116.882	0.3	8.78	1.7	117	AC	---	1.2	SPRINGDALE
7 5:41:48	37.338	115.833	1.4	3.28	4.3	214	DD	1.2	1.3	ALAMO SE
7 23:18:49	37.188	116.878	0.2	4.17	3.6	117	BC	1.7	1.7	SPRINGDALE
7 23:56:17	37.147	116.881	0.2	10.11	0.9	117	AC	1.7	1.4	SPRINGDALE
8 0:23:40	37.243	117.041	0.2	10.78	0.4	108	AB	1.8	1.7	LAST CHANCE RANGE
8 1: 9:47	37.341	117.752	0.4	2.94	3.0	152	BC	2.1	2.0	SOLDIER PASS
8 12:12: 9	37.182	117.518	0.8	11.20	1.9	254	AD	---	1.1	LAST CHANCE RANGE
10 1: 7:20	36.711	116.138	0.1	6.19	0.7	77	AC	1.3	1.2	SPECTER RANGE NW
10 3:37:32	36.749	116.818	0.2	3.78	5.4	117	CC	1.4	1.0	CAMP DESERT ROCK
10 18:18:20	36.337	116.854	0.1	6.02	0.9	92	AC	2.0	1.6	FURNACE CREEK
10 18:22:23	37.722	115.058	0.3	7.97	1.3	117	AB	1.3	1.3	HIKO NE
11 1:30:24	37.718	114.853	0.4	5.20	1.0	187	AD	1.0	1.1	PAHROC SPRING NE
11 2:56:18	37.708	114.857	0.5	6.54	1.2	273	AD	---	1.3	PAHROC SPRING NE
11 12:47:12	37.341	116.887	0.5	4.15	4.[illegible]	67	BC	---	1.0	OAK SPRING BUTTE
11 13:48:58	37.848	115.022	0.2	2.40	0.8	120	AB	2.5	2.0	HIKO NE
11 14:23:27	37.691	115.025	0.2	4.37	1.2	121	AB	---	1.1	HIKO NE
11 15: 0:52	37.160	116.887	0.3	10.24	1.0	204	AD	---	0.9	SPRINGDALE
11 17:54:39	37.682	115.031	0.6	5.12	3.5	117	DD	---	1.1	HIKO NE
12 2:42:47	36.718	116.347	0.1	-0.07	0.2	83	AB	---	1.0	STRIPED HILLS
12 4:30:24	37.229	117.333	0.5	5.09	0.9	186	AD	---	1.0	USEMEBE CRATER
12 20:50:59	37.336	116.889	0.3	4.82	1.9	140	AC	---	0.9	OAK SPRING BUTTE
13 1: 1:37	37.689	115.033	0.3	12.27	1.0	118	AB	---	0.6	HIKO NE
13 9:23:33	37.388	116.487	0.1	1.36	P.4	88	AC	1.6	0.4	SILENT BUTTE
13 17:11:57	37.649	115.041	0.3	1.40	5.0	97	CD	---	0.8	HIKO NE
14 12:17:23	36.879	116.218	0.3	5.94	0.5	131	AB	---	0.6	MINE MTN
14 12:59.[illegible]	37.171	116.843	0.8	13.83	1.3	182	AC	1.2	1.3	OAK SPRING
16 4:59:49	37.040	116.838	0.4	6.23	2.0	143	AC	1.4	0.6	SPRINGDALE
17 3:15: 9	37.689	115.029	0.9	6.33	2.8	157	BC	---	1.0	HIKO NE
17 5:56:18	37.059	116.296	0.2	5.92	0.5	66	AB	---	0.5	BUCKBOARD MESA
17 16:25: 0	37.006	116.849	0.2	-0.18	4.3	85	DD	---	0.2	YUCCA FLAT
19 8:16: 1	37.447	115.472	1.6	6.79	7.8	88	CC	1.5	---	CRESCENT RESERVOIR
19 10:20:44	35.589	117.392	4.3	32.45*	---	296	CD	2.0	---	SEARLES LAKE
19 15:20:59	37.144	116.874	0.2	7.39	0.6	49	AB	1.9	2.1	SPRINGDALE
19 15:39:13	37.139	116.879	0.3	8.77	1.5	114	AC	1.7	0.9	SPRINGDALE
20 16: 9:29	36.863	115.955	0.1	1.78	0.5	154	AC	1.5	1.2	FRENCHMAN FLAT
21 0:17:16	36.870	116.246	0.2	1.03*	---	86	CD	1.2	1.0	SKULL MTN
21 10:59:23	37.873	117.460	0.8	6.54	2.8	193	DD	---	1.0	MONTEZUMA PEAK SW
21 18:49:52	37.874	117.437	0.5	4.40	2.9	83	BC	---	1.3	MONTEZUMA PEAK SW
21 18:56:52	37.876	117.439	0.3	6.61	0.9	95	AC	---	1.4	MONTEZUMA PEAK SW
21 19: 5:44	37.581	117.421	1.2	9.05	2.7	187	BC	---	1.1	MONTEZUMA PEAK SW
21 19:16:56	37.582	117.434	0.8	10.59	1.9	135	AB	---	1.1	MONTEZUMA PEAK SW
21 19:34:33	37.569	117.443	0.3	4.29	2.8	132	BC	---	1.1	MONTEZUMA PEAK SW
21 19:42:58	37.572	117.442	0.4	4.55	2.8	187	BC	---	1.3	MONTEZUMA PEAK SW
21 20: 8:59	37.577	117.438	0.6	7.59	1.4	180	AD	---	1.1	MONTEZUMA PEAK SW
21 20:30:54	37.572	117.444	0.4	4.42	2.4	93	BC	---	1.4	MONTEZUMA PEAK SW
21 20:54:44	37.572	117.445	0.4	5.00	1.9	91	AC	---	1.5	MONTEZUMA PEAK SW
21 22:42:38	37.572	117.444	0.3	4.01	1.9	102	AC	---	1.4	MONTEZUMA PEAK SW
21 22:51:52	37.577	117.449	0.6	7.17	1.5	187	AD	---	1.2	MONTEZUMA PEAK SW
22 0:19:25	36.028	117.534	4.2	8.29	4.2	259	DD	3.3	---	COSO PEAK
22 2:12:21	37.574	117.452	0.3	0.88	1.1	102	AC	1.7	---	MONTEZUMA PEAK SW
22 2:27:26	37.574	117.448	0.5	-0.70*	---	86	CC	2.8	---	MONTEZUMA PEAK SW
22 2:44: 3	37.579	117.488	0.5	0.81	1.5	92	BC	1.7	---	MONTEZUMA PEAK SW
22 3: 5:17	37.577	117.449	0.3	1.93	0.9	87	AC	2.2	---	MONTEZUMA PEAK SW
22 3:15:36	37.623	117.468	1.0	-1.10*	---	112	CC	2.7	---	MONTEZUMA PEAK SW
22 3:40: 6	37.569	117.451	0.4	4.03	3.4	93	BC	1.3	1.4	MONTEZUMA PEAK SW
22 3:42:43	37.571	117.449	0.4	4.80	1.9	92	AC	---	1.2	MONTEZUMA PEAK SW
22 3:45:17	37.568	117.482	0.3	1.86	0.7	93	AC	---	1.3	MONTEZUMA PEAK SW

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1985 LOCAL HYPOCENTER SUMMARY

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AUG 22 3:47:52	37.580	117.443	0.4	0.72	0.8	86	AC	2.8	1.7	MONTEZUMA PEAK SW
22 3:50: 6	37.577	117.437	0.3	0.44	0.6	84	AC	1.7	1.8	MONTEZUMA PEAK SW
22 3:53: 1	37.570	117.452	0.2	0.17	0.8	88	AC	2.5	2.0	MONTEZUMA PEAK SW
22 3:56:44	37.583	117.433	0.8	4.77	3.1	84	BC	1.9	2.0	MONTEZUMA PEAK SW
22 3:58:23	37.577	117.448	0.3	7.87	0.8	92	AB	---	1.4	MONTEZUMA PEAK SW
22 3:58:46	37.580	117.427	0.3	0.70	1.3	138	AC	---	1.3	MONTEZUMA PEAK SW
22 4: 1:19	37.572	117.451	0.2	4.02	1.3	86	AC	---	1.4	MONTEZUMA PEAK SW
22 4: 3:00	37.572	117.448	0.2	1.58	0.7	105	AC	---	0.9	MONTEZUMA PEAK SW
22 4: 4:52	37.573	117.444	0.6	4.28	4.4	93	BC	---	1.8	MONTEZUMA PEAK SW
22 4: 9:28	37.577	117.454	0.3	0.04	1.0	88	AC	2.0	1.6	MONTEZUMA PEAK SW
22 4:12:19	37.572	117.448	0.3	4.86	1.8	85	AC	1.7	1.9	MONTEZUMA PEAK SW
22 4:14:37	37.586	117.493	0.2	-0.56	0.3	103	AC	---	1.2	MONTEZUMA PEAK SW
22 4:15:53	37.589	117.444	0.3	4.93	1.7	174	AC	---	1.2	MONTEZUMA PEAK SW
22 4:22:50	37.568	117.448	0.3	0.12	0.9	92	AC	1.8	1.8	MONTEZUMA PEAK SW
22 4:26:07	37.572	117.458	0.1	1.87	0.3	105	AC	---	1.2	MONTEZUMA PEAK SW
22 4:31: 8	37.572	117.439	0.6	4.84	2.8	83	BC	1.8	1.7	MONTEZUMA PEAK SW
22 4:33:20	37.568	117.448	0.2	2.97	1.5	92	AC	---	1.3	MONTEZUMA PEAK SW
22 4:35:10	37.570	117.482	0.3	5.83	1.3	93	AC	1.6	1.6	MONTEZUMA PEAK SW
22 4:42:12	37.576	117.491	0.3	5.28	1.3	92	AC	---	1.3	MONTEZUMA PEAK SW
22 4:47:33	37.574	117.443	0.2	1.69	0.5	84	AC	---	1.5	MONTEZUMA PEAK SW
22 4:49:54	37.584	117.439	0.5	0.28	0.4	171	AC	---	1.2	MONTEZUMA PEAK SW
22 4:51: 8	37.578	117.443	0.2	5.97	0.8	93	AC	---	1.2	MONTEZUMA PEAK SW
22 4:52:42	37.571	117.450	0.3	2.00	1.0	85	AC	2.0	2.1	MONTEZUMA PEAK SW
22 4:54:22	37.574	117.449	0.2	2.06	0.5	92	AC	---	1.7	MONTEZUMA PEAK SW
22 4:58:24	37.579	117.444	0.2	-1.08	0.4	86	AC	2.8	---	MONTEZUMA PEAK SW
22 5: 2:55	37.599	117.448	0.1	1.87	0.5	92	AC	1.6	1.6	MONTEZUMA PEAK SW
22 5: 5:58	37.580	117.433	0.4	0.24	0.9	84	AC	1.9	1.8	MONTEZUMA PEAK SW
22 5:10: 5	37.593	117.441	0.3	8.15	0.6	92	AB	---	1.3	MONTEZUMA PEAK SW
22 5:11:58	37.589	117.447	0.3	2.10	0.8	82	AC	1.5	1.6	MONTEZUMA PEAK SW
22 5:15: 8	37.589	117.436	0.4	5.43	1.3	134	AC	---	0.9	MONTEZUMA PEAK SW
22 5:16:30	37.574	117.442	0.2	3.87	2.8	132	AC	---	1.3	MONTEZUMA PEAK SW
22 5:23:27	37.574	117.500	0.7	6.43	1.3	217	AD	---	1.1	LIDA WASH
22 5:25: 0	37.572	117.443	0.1	1.93	0.4	93	AC	---	1.3	MONTEZUMA PEAK SW
22 5:28:12	37.560	117.452	0.2	1.35	0.8	93	AC	1.9	1.8	MONTEZUMA PEAK SW
22 5:30:06	37.581	117.433	0.4	6.41	1.2	109	AC	---	1.1	MONTEZUMA PEAK SW
22 5:40:22	37.577	117.419	0.8	7.31	1.7	142	AC	---	1.1	MONTEZUMA PEAK SW
22 5:41:20	37.570	117.449	0.3	2.93	1.0	92	AC	---	1.5	MONTEZUMA PEAK SW
22 6: 4:41	37.574	117.445	0.3	1.28	1.0	80	AC	2.4	2.4	MONTEZUMA PEAK SW
22 6:30:17	37.579	117.429	0.5	5.41	1.9	98	AC	---	1.1	MONTEZUMA PEAK SW
22 6:49:00	37.571	117.443	0.2	0.04	0.2	88	AC	---	1.5	MONTEZUMA PEAK SW
22 6:51:30	37.571	117.440	0.5	1.68	1.4	95	AC	---	1.3	MONTEZUMA PEAK SW
22 6:52:42	37.582	117.438	0.4	7.23	1.1	133	AB	---	1.4	MONTEZUMA PEAK SW
22 6:57: 4	37.572	117.437	0.1	2.17	0.3	95	AC	---	1.3	MONTEZUMA PEAK SW
22 7: 0:16	37.575	117.437	0.4	0.24	0.7	83	AC	1.8	1.7	MONTEZUMA PEAK SW
22 7: 9: 3	37.572	117.444	0.3	4.08	2.5	108	BC	---	1.2	MONTEZUMA PEAK SW
22 7:21:43	37.581	117.439	0.3	6.17	1.1	94	AC	1.6	1.4	MONTEZUMA PEAK SW
22 7:35:12	37.569	117.448	0.3	2.49	0.7	84	AC	1.7	2.0	MONTEZUMA PEAK SW
22 7:41:58	37.570	117.451	0.2	4.60	1.4	102	AC	---	1.4	MONTEZUMA PEAK SW
22 7:49: 8	37.576	117.441	0.3	0.53	0.5	82	AC	1.6	1.3	MONTEZUMA PEAK SW
22 7:56: 1	37.568	117.451	0.2	0.92	0.4	104	AC	---	1.4	MONTEZUMA PEAK SW
22 8:10: 5	37.579	117.447	0.4	2.21	1.1	87	AC	2.4	2.5	MONTEZUMA PEAK SW
22 8:19:34	37.572	117.439	0.7	4.28	4.3	95	BC	---	1.2	MONTEZUMA PEAK SW
22 8:24:13	37.578	117.448	0.3	0.88	0.7	136	AC	---	1.0	MONTEZUMA PEAK SW
22 8:39:46	37.569	117.486	0.8	-1.03	1.6	104	BC	1.8	---	MONTEZUMA PEAK SW
22 9:15:45	37.577	117.447	0.3	-0.76	2.2	86	BC	1.4	---	MONTEZUMA PEAK SW
22 9:51:32	37.488	118.524	7.5	7.90	-2.1	308	DD	2.5	---	***REGIONAL***
22 12: 0:14	37.568	117.455	0.3	-0.88	0.8	104	AC	1.7	---	MONTEZUMA PEAK SW
22 17:28:43	37.570	117.436	0.7	5.47	2.9	96	BC	1.3	1.4	MONTEZUMA PEAK SW
22 18: 1:18	37.580	117.424	0.8	0.11	1.8	140	AC	---	1.2	MONTEZUMA PEAK SW
22 18:12:27	37.571	117.448	0.4	4.91	2.3	83	BC	2.1	1.7	MONTEZUMA PEAK SW
22 18:29: 0	37.569	117.448	0.3	4.52	1.7	93	AC	1.3	1.4	MONTEZUMA PEAK SW
22 18:32: 9	37.570	117.448	0.3	4.52	1.5	129	AC	---	1.0	MONTEZUMA PEAK SW
22 18:44:52	37.575	117.445	1.1	7.88	2.4	185	BD	---	1.1	MONTEZUMA PEAK SW
22 19:47:18	37.583	117.430	0.8	10.07	1.1	171	AC	---	1.1	MONTEZUMA PEAK SW
22 20:37:39	37.569	117.447	0.3	2.05	0.9	92	AC	---	1.4	MONTEZUMA PEAK SW
22 20:38:46	37.572	117.484	0.5	7.10	1.3	189	AD	---	1.8	MONTEZUMA PEAK SW

9075000/597

1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
AUG 22 20:54:17	37.575	117.446	0.4	4.89	2.7	91	BC	2.4	2.3	MONTEZUMA PEAK SW
22 20:58: 3	37.571	117.445	0.3	4.08	2.7	100	BC	---	1.4	MONTEZUMA PEAK SW
22 22:53:13	37.573	117.455	0.6	3.02*	---	120	CC	---	1.0	MONTEZUMA PEAK SW
22 23:10:32	37.569	117.447	0.2	2.03	0.8	92	AC	---	1.4	MONTEZUMA PEAK SW
22 23:42:24	36.871	116.222	0.3	0.75	0.5	199	AB	---	0.5	SKULL MTN
22 23:55:52	37.573	117.428	0.6	4.95	3.5	120	BC	---	1.0	MONTEZUMA PEAK SW
23 0:20:34	37.582	117.408	1.2	10.54	2.4	148	BC	---	1.2	MONTEZUMA PEAK SW
23 1: 0:39	37.574	117.460	0.5	7.45	1.1	194	AD	---	1.1	MONTEZUMA PEAK SW
23 1: 1:48	37.572	117.459	0.7	5.37	1.7	192	AD	---	1.0	MONTEZUMA PEAK SW
23 1: 3:13	36.575	115.909	0.2	12.60	0.5	100	AB	---	0.9	MERCURY SW
23 1:36:48	37.570	117.447	0.3	2.04	0.7	92	AC	---	1.1	MONTEZUMA PEAK SW
23 2: 2:43	37.570	117.463	0.6	5.04	1.8	194	AD	---	0.8	MONTEZUMA PEAK SW
23 2:23:37	37.568	117.448	0.3	2.99	1.9	101	AC	1.3	1.5	MONTEZUMA PEAK SW
23 2:54:38	37.568	117.458	1.0	1.59	4.2	191	BD	---	0.9	MONTEZUMA PEAK SW
23 2:59:46	37.571	117.453	0.7	5.06	2.4	188	BD	---	0.9	MONTEZUMA PEAK SW
23 3:20:51	37.568	117.458	0.3	1.81	0.7	101	AC	---	1.3	MONTEZUMA PEAK SW
23 4:38:17	37.568	117.445	0.2	1.73	0.6	99	AC	1.3	1.4	MONTEZUMA PEAK SW
23 8:20:29	37.568	117.448	0.9	4.28	5.0	188	BD	---	1.1	MONTEZUMA PEAK SW
23 8:44:48	37.349	117.713	0.3	0.83	0.5	141	AC	2.0	2.1	MAGRUDER MTN
23 10:14:47	37.686	115.020	0.5	1.61	1.6	119	AB	---	1.0	HIKO NE
23 13:13:59	37.571	117.441	0.4	5.01	2.6	91	BC	2.3	2.2	MONTEZUMA PEAK SW
23 14:34:13	37.570	117.457	0.3	0.58	0.7	190	AD	---	1.0	MONTEZUMA PEAK SW
23 15: 0:59	37.569	117.452	0.4	5.50	1.4	187	AD	---	1.3	MONTEZUMA PEAK SW
23 15: 7:45	37.575	117.421	0.4	6.21	1.5	124	AC	---	1.[illegible]	MONTEZUMA PEAK SW
23 15:49:46	37.574	117.442	0.3	2.34	0.8	84	AC	2.1	1.7	MONTEZUMA PEAK SW
23 15:58: 8	37.569	117.445	0.1	6.12	0.6	188	AC	---	1.4	MONTEZUMA PEAK SW
23 16: 4: 3	37.573	117.442	0.4	1.88	1.1	84	AC	1.9	1.8	MONTEZUMA PEAK SW
23 16:18:24	37.570	117.452	0.5	5.41	1.4	188	AD	---	1.1	MONTEZUMA PEAK SW
23 17:44:15	37.567	117.447	0.3	2.38	0.6	100	AC	---	1.4	MONTEZUMA PEAK SW
23 22:41: 5	37.229	117.591	0.4	2.07	0.7	159	AC	---	0.9	LAST CHANCE RANGE
23 23:45:39	37.239	117.587	0.4	1.46	1.1	103	AB	---	1.5	LAST CHANCE RANGE
23 23:47:36	37.233	117.588	0.4	1.88	0.7	111	AB	---	1.1	LAST CHANCE RANGE
24 4:19:32	37.232	117.589	0.5	1.80	0.8	153	AC	---	1.1	LAST CHANCE RANGE
24 6:46:35	37.344	117.744	0.3	-0.09	0.4	149	AC	2.1	2.0	MAGRUDER MTN
24 7:31:20	37.567	117.442	0.4	1.53	1.2	92	AC	---	1.3	MONTEZUMA PEAK SW
24 8:14:5[illegible]	37.216	117.597	0.3	5.00	0.5	136	AC	2.2	2.5	LAST CHANCE RANGE
24 8:46:46	37.233	117.591	0.4	2.29	0.6	112	AB	---	1.3	LAST CHANCE RANGE
24 8:58:41	37.223	117.595	0.4	-0.71	0.3	107	BC	---	1.0	LAST CHANCE RANGE
24 9: 2:15	37.236	117.605	1.2	5.76	2.2	148	BC	---	0.5	LAST CHANCE RANGE
24 9:41:54	37.236	117.592	0.6	1.95	1.2	135	AC	1.5	1.5	LAST CHANCE RANGE
24 11:50:57	37.219	117.599	0.3	5.20	0.7	132	AB	1.9	1.6	LAST CHANCE RANGE
24 11:52:21	37.231	117.599	0.8	4.12	0.8	144	AC	1.5	1.4	LAST CHANCE RANGE
24 11:54: 2	37.235	117.595	0.6	-0.88	0.4	149	AC	---	1.0	LAST CHANCE RANGE
24 12:16: 1	37.235	117.592	0.4	2.19	0.9	108	AB	1.1	1.0	LAST CHANCE RANGE
24 12:19:32	37.236	117.588	0.8	1.48	1.5	148	AC	---	1.0	LAST CHANCE RANGE
24 12:37: 0	37.224	117.594	0.3	4.83	0.7	123	AB	1.9	1.5	LAST CHANCE RANGE
24 13:34:44	37.229	117.583	0.4	0.13	0.2	156	AC	---	0.9	LAST CHANCE RANGE
24 13:36: 6	37.219	117.595	0.4	4.77	0.8	131	AB	2.0	2.2	LAST CHANCE RANGE
24 14:49:25	37.246	117.581	0.2	-0.01	0.2	136	AC	---	0.8	LAST CHANCE RANGE
24 15:23:23	37.236	117.585	0.6	1.90	0.9	148	AC	---	0.7	LAST CHANCE RANGE
24 15:53:30	37.219	117.594	0.3	5.17	0.7	130	AB	2.0	1.8	LAST CHANCE RANGE
24 16:12:14	37.247	117.583	0.3	0.18	0.2	136	AC	---	0.8	LAST CHANCE RANGE
24 16:24:39	37.243	117.579	0.4	-0.06	0.3	140	AC	---	0.8	LAST CHANCE RANGE
24 16:32:22	37.240	117.574	0.5	-0.06	0.4	144	AC	---	0.9	LAST CHANCE RANGE
24 17:27:59	37.230	117.591	0.4	4.00	1.2	119	AB	---	1.0	LAST CHANCE RANGE
24 18:39:35	37.214	117.602	0.4	-0.14	0.7	107	AC	1.0	---	LAST CHANCE RANGE
24 21:16:19	37.219	117.608	1.6	4.00	2.8	138	BC	1.0	---	LAST CHANCE RANGE
25 19:43:11	37.350	117.712	0.2	0.52	0.3	140	AC	---	1.5	MAGRUDER MTN
26 14: 8:36	37.238	115.814	2.0	7.98	3.4	212	BD	1.3	1.0	LOWER PAHRANAGAT LAKE
27 7: 1: 9	37.311	117.617	0.2	3.60	1.5	100	AB	---	1.0	MAGRUDER MTN
27 7: 2:23	37.316	117.621	0.2	1.60	0.4	103	AB	---	1.0	MAGRUDER MTN
28 8:55:27	37.249	115.335	0.9	10.70	2.1	141	BC	---	1.5	DESERT HILLS NE
29 1:56:19	36.730	116.020	0.2	3.15*	---	107	CC	---	1.0	CAMP DESERT ROCK
29 5:22:40	37.689	115.028	0.3	1.71	0.9	119	AB	---	0.8	HIKO NE
29 11:11:21	37.684	115.032	0.3	-0.72	0.3	117	AB	---	1.0	HIKO NE
29 17: 2:15	37.164	116.938	0.7	4.19	5.0	254	BD	---	0.9	SPRINGDALE

9075000/590

1985 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
AUG 29	20:17:49	36.958	116.368	0.1	4.73	1.1	135	AD	---	0.3	TOPOPAH SPRING
30	1:34:53	37.219	117.591	0.5	4.50	0.9	171	AC	---	0.9	LAST CHANCE RANGE
30	20:43:35	36.695	116.293	0.8	7.23	0.4	184	AD	---	0.6	STRIPED HILLS
30	22:49:51	36.758	116.286	0.2	0.15	0.4	148	AC	---	0.6	SKULL MTN
SEP 1	3:13:11	37.173	115.889	1.4	2.79	1.2	204	BD	1.7	---	LOWER PAHRANAGAT LAKE
1	11: 3: 8	36.717	116.282	0.5	2.24	1.4	85	BB	1.7	---	SPECTER RANGE NW
2	18:14:54	37.356	117.744	0.3	0.38	0.5	144	AC	---	1.4	MAGRUDER MTN
2	19:45: 8	37.169	118.848	1.3	11.55	2.8	249	BD	---	0.2	***REGIONAL***
3	14:49:43	37.073	116.298	0.2	5.48	0.4	111	AB	---	0.4	BUCKBOARD MESA
4	18:31:37	36.701	116.287	0.2	6.86	0.3	118	AB	---	0.7	STRIPED HILLS
4	20: 0: 3	36.703	116.278	0.3	7.35	0.3	123	AB	---	0.6	STRIPED HILLS
5	18:14: 7	36.841	117.474	0.5	9.47	0.7	183	AD	---	1.4	TIN MTN
6	2: 4:58	37.180	116.888	0.3	1.77	0.6	144	AC	---	0.9	THIRSTY CANYON NW
6	4:11:20	37.873	117.488	0.3	7.03	0.8	192	AD	---	1.1	MONTEZUMA PEAK SW
6	10:38:25	36.604	116.413	0.6	6.07	0.9	214	AD	1.2	0.4	LATHROP WELLS SW
7	14:38:58	36.737	117.292	0.3	11.88	0.8	132	AB	2.2	2.8	MARBLE CANYON
9	6:34: 7	37.258	115.887	0.4	5.54	1.8	158	AC	1.9	---	ALAMO SE
9	22:11:20	37.578	117.433	0.7	10.27	1.5	134	AB	---	1.4	MONTEZUMA PEAK SW
9	22:12:49	37.587	117.449	0.1	0.70	0.5	129	AC	---	1.4	MONTEZUMA PEAK SW
10	9: 7:19	36.747	116.659	0.9	10.90	1.7	110	AB	1.1	---	BIG DUNE
10	15:16:58	37.145	116.389	0.2	10.55	0.4	91	AB	---	0.9	SCRUGHAM PEAK
12	5: 9:16	37.342	116.345	0.2	5.75	1.2	99	AC	1.7	1.2	DEAD HORSE FLAT
13	2: 9: 5	37.618	117.408	0.4	6.39	1.1	118	AB	---	0.9	MONTEZUMA PEAK SW
13	13:33: 5	36.444	116.260	1.4	3.88*	---	329	CD	---	0.7	ASH MEADOWS
13	14:39:53	37.488	116.737	0.3	11.33	3.0	156	BC	---	1.3	BLACK MTN NW
13	14:40:47	37.455	116.750	0.5	15.22	2.4	157	BC	---	1.0	TOLICHA PEAK
13	20:22:30	37.131	118.872	0.3	-0.89	0.4	111	AC	1.8	1.1	SPRINGDALE
14	5: 0:20	37.119	117.119	0.2	5.77	1.7	98	AC	1.9	1.3	BONNIE CLAIRE SE
14	17:53: 2	36.809	115.971	0.6	7.11	1.1	213	AD	---	0.6	PLUTONIUM VALLEY
14	23:26: 2	37.333	116.853	0.3	5.99	2.2	123	BC	---	1.0	OAK SPRING BUTTE
15	18:52:12	36.738	115.865	0.3	5.78	2.7	87	BC	1.9	---	HEAVENS BELL
15	12:53:15	36.586	115.824	1.9	0.70	1.8	245	BD	2.8	---	HAYFORD PEAK
16	5:45:57	37.167	117.484	0.2	-0.23	0.9	128	AC	1.4	1.1	UBEHEBE CRATER
16	6:56:14	36.478	117.018	1.3	2.84	3.2	242	BD	---	1.0	EMIGRANT CANYON
16	8:31:45	37.051	116.474	1.4	7.16	1.4	288	BD	1.3	0.3	TIMBER MTN
16	18:36:38	36.448	116.758	0.3	9.15	1.8	112	AC	---	1.7	FURNACE CREEK
16	19:11:19	38.009	115.928	0.3	8.36	2.2	157	BC	---	1.0	QUINN CANYON RANGE
16	21:58:23	36.418	117.889	0.2	6.37	3.1	151	BC	---	1.3	EMIGRANT CANYON
17	5:23:21	36.893	115.988	0.2	5.80	1.2	155	AC	1.6	1.6	PLUTONIUM VALLEY
17	6:35:26	37.148	118.883	0.5	6.83	2.4	195	BD	1.5	0.8	SPRINGDALE
17	11:17:28	36.792	116.018	0.8	3.85	3.5	257	BD	1.3	1.2	CANE SPRING
17	18: 7:29	36.878	116.814	1.1	3.45*	---	337	CD	---	0.7	BULLFROG
19	8:38:58	37.386	117.273	0.3	6.26	0.3	185	AB	1.6	1.1	GOLD POINT
20	13:49:37	37.153	116.288	0.2	6.88	0.3	183	AB	---	1.1	AMMONIA TANKS
21	21:29:56	36.699	116.314	0.2	0.18	0.2	188	AB	---	0.2	STRIPED HILLS
23	13:14: 5	36.725	115.818	0.4	8.91	0.4	211	AD	---	1.3	MERCURY NE
24	18: 1:16	37.183	117.398	0.2	-0.02	0.3	103	AC	1.8	1.8	UBEHEBE CRATER
25	1:27:45	37.157	116.267	0.3	3.89	1.1	87	AB	---	1.0	AMMONIA TANKS
26	8:32:28	36.802	116.032	0.8	2.54	0.7	303	AD	---	0.7	CANE SPRING
26	13:47:59	37.117	117.302	0.3	0.32	0.5	96	AC	---	1.6	UBEHEBE CRATER
27	0:48:40	37.095	115.022	0.3	4.42	1.4	123	AB	---	0.2	HIKO NE
27	4:41:29	37.141	116.018	0.4	7.58	1.0	203	AD	1.7	0.9	OAK SPRING
27	8:48:26	37.142	116.018	0.4	6.90	0.8	202	AD	1.3	1.0	OAK SPRING
28	3:14: 2	36.812	116.037	0.2	0.27	0.3	120	AC	1.7	1.2	CANE SPRING
28	17:51:39	37.011	116.150	0.2	1.58	0.7	110	AB	1.7	1.7	TIPPIPAH SPRING
28	21: 1:51	37.275	116.214	0.2	9.28	0.6	96	AB	1.9	1.7	QUARTET DOME
28	21: 3:13	37.278	116.218	0.3	9.84	0.4	241	AD	---	0.9	QUARTET DOME
28	21:11:49	37.281	116.218	0.2	7.32	0.5	36	AB	---	2.5	QUARTET DOME
28	21:13:16	36.753	116.160	80.7	7.00*	---	219	DD	---	2.6	SKULL MTN
28	21:18:58	37.279	116.218	0.2	9.39	0.7	108	AB	---	1.9	QUARTET DOME
28	21:21:44	37.275	116.218	0.2	0.41	0.7	108	AB	1.6	1.6	QUARTET DOME
28	21:55: 0	37.280	116.215	0.1	9.30	0.5	97	AB	1.8	1.4	QUARTET DOME
28	22:24:51	37.282	116.218	0.2	5.91	1.2	108	AC	---	0.9	QUARTET DOME
29	1:59: 8	37.278	116.213	0.2	7.03	0.6	97	AB	1.6	1.3	QUARTET DOME
29	18:54:14	37.272	116.214	0.3	6.80	0.6	202	AD	1.6	1.2	QUARTET DOME
29	15:59:39	36.892	116.258	0.7	1.88	0.9	248	AD	---	0.6	STRIPED HILLS

9075900/599

1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
SEP 29 16:49: 5	37.278	116.213	0.2	9.30	0.6	97	AB	1.8	1.9	QUARTET DOME
30 2:52: 4	36.880	116.002	0.4	7.25	0.8	240	AD	---	0.9	YUCCA LAKE
30 23:11: 0	36.597	115.846	0.3	10.00	0.6	126	AB	1.3	1.1	MERCURY SE
OCT 1 20:56:29	37.700	115.017	0.3	3.70	2.0	126	BB	1.8	---	NIKO NE
2 6: 3:32	37.285	116.218	0.4	9.32	0.6	208	AD	---	0.9	QUARTET DOME
2 11: 1:53	37.183	117.389	0.4	5.88	2.1	159	BC	---	1.2	UBEHEBE CRATER
2 18:10:22	37.810	116.140	0.3	3.90	1.5	110	AB	---	1.5	TIPPIPAH SPRING
2 19:27: 3	37.874	117.022	0.3	0.29	2.6	101	BC	---	1.2	LIDA WASH
2 19:44:39	38.459	115.749	1.2	1.35	1.5	249	BD	2.7	2.7	TROY CANYON
3 4:42: 5	36.815	116.001	0.4	0.10	0.3	188	AB	---	0.7	CANE SPRING
3 9:55:25	36.804	116.047	0.1	0.72	0.8	86	AC	---	1.3	SPECTER RANGE SE
3 12:32:23	36.748	116.211	0.4	3.70	0.6	207	AD	1.2	0.3	SPECTER RANGE NW
4 1:37:26	36.784	116.410	2.5	0.04	0.6	213	CD	---	0.1	TOPOPAH SPRING SW
6 3:44: 0	37.484	116.362	0.3	8.99	1.7	128	AC	---	1.0	SILENT CANYON NE
6 9: 2:55	37.286	116.029	0.2	4.67	0.8	87	AB	---	1.1	OAK SPRING BUTTE
6 13:10:51	37.249	115.995	0.4	7.87	1.0	192	AD	1.7	1.0	JANGLE RIDGE
7 11:24:43	37.237	114.996	0.5	7.12	1.5	161	AC	1.8	1.7	DELAMAR 3 NW
7 22:11:49	37.246	115.048	0.7	6.87	1.1	261	AD	---	1.5	LOWER PAHRANAGAT LAKE
8 8:15:49	37.896	115.021	0.2	1.88	0.6	123	AB	---	1.1	NIKO NE
8 8:28:53	36.882	115.964	0.2	0.26	2.4	194	BC	---	0.8	PLUTONIUM VALLEY
9 20:40: 0	37.283	116.200	0.7	4.16	3.2	186	BC	---	0.2	RAINIER MESA
10 8:42:41	36.694	116.314	0.2	0.95	0.4	43	AA	1.6	1.7	TOPOPAH SPRING
10 11:17:21	36.892	116.329	0.2	0.59	0.8	52	AB	1.3	1.0	TOPOPAH SPRING
11 8:18:27	35.644	116.288	1.0	10.22	0.8	287	AD	---	1.9	AVAWATZ PASS
11 3:51: 6	37.427	115.001	0.5	0.44	6.2	161	AC	---	1.1	ALAMO NE
11 5:39:00	36.897	116.783	1.3	36.04	0.9	319	BD	---	1.2	BULLFROG
11 11:13:37	36.917	116.726	0.3	1.71	0.9	98	AC	1.3	1.1	BARE MTN
12 4:36:43	36.701	116.434	0.9	9.23	0.9	282	AD	---	0.5	LATHROP WELLS NW
13 6: 7:56	36.810	115.918	0.3	0.64	0.4	155	AC	---	1.4	FRENCHMAN FLAT
13 9:33:11	37.507	115.102	0.2	7.00	0.8	86	AB	2.1	2.0	NIKO SE
13 9:36:20	36.803	115.988	0.3	6.28	1.2	157	AC	---	0.9	FRENCHMAN FLAT
14 4:41:34	37.259	115.177	0.4	4.67	1.7	140	AC	---	1.0	ALAMO
14 17: 7:30	37.441	115.421	0.1	1.41	1.0	97	AC	1.6	1.7	CRESCENT RESERVOIR
17 16: 8:25	37.159	117.402	0.2	0.04	0.9	128	AC	---	1.2	UBEHEBE CRATER
19 22:48:56	37.478	116.064	0.2	6.37	0.4	59	AA	1.8	1.2	WHEELBARROW PEAK NE
22 22:35: 5	36.972	116.451	0.9	16.35	1.0	229	AD	---	1.0	TOPOPAH SPRING NW
23 23:36:37	37.303	116.341	0.2	7.26	1.8	161	AC	---	0.8	DEAD HORSE FLAT
24 23:26: 1	37.665	114.877	0.3	8.81	0.9	153	AC	1.6	1.6	PAHAOC SPRING
26 0: 2:36	36.649	116.266	0.2	5.76	0.6	66	AB	1.6	1.4	STRIPED HILLS
27 9: 3:37	37.303	117.633	0.2	0.50	0.4	110	AB	---	1.5	MAGRUDER MTN
27 13:57:00	37.507	115.105	0.3	6.48	1.1	85	AB	1.8	1.9	NIKO SE
28 0:11:30	37.385	117.632	0.3	4.29	1.4	199	AB	---	1.6	MAGRUDER MTN
28 0:12:08	37.381	117.632	0.3	5.24	0.8	189	AB	1.8	1.4	MAGRUDER MTN
28 4: 4:57	36.993	117.536	0.5	2.17	1.3	174	AC	---	1.5	DRY MTN
28 8:49:44	37.264	114.828	0.4	2.33	2.2	281	BD	---	1.9	GREGERSON BASIN
29 0:59:44	36.660	116.251	0.2	5.01	0.8	187	AB	1.4	1.5	STRIPED HILLS
30 19:10:42	37.918	116.100	0.3	4.84	4.8	121	BC	1.9	2.0	REVEILLE PEAK
30 20:24:22	37.570	117.730	0.3	7.20	1.5	117	AC	---	1.1	LIDA WASH
31 13: 8:48	36.838	115.947	0.6	8.86	1.6	191	AD	1.6	1.8	FRENCHMAN FLAT
NOV 1 11:56: 2	37.888	117.409	0.6	5.71	3.2	128	BB	1.5	2.1	UBEHEBE CRATER
2 9: 2:54	36.638	116.384	0.3	4.10	0.8	99	AB	1.2	1.1	LATHROP WELLS NW
3 3:40:57	37.051	116.954	0.2	7.00**	2.4	94	BC	1.9	1.6	SPRINGDALE
3 3:49:10	37.052	116.954	0.2	12.20	0.9	146	AC	1.7	1.5	SPRINGDALE
3 4:34:30	37.230	114.888	0.6	2.85	2.2	217	BD	1.6	1.2	DELAMAR 3 NW
5 8:46:11	37.322	114.989	0.4	0.99	8.4	168	AC	---	1.6	DELAMAR LAKE
7 13:47:45	36.715	116.283	0.3	2.09	8.6	126	AB	1.0	---	STRIPED HILLS
8 8:10:58	36.650	116.283	0.3	0.77	0.8	128	AB	1.2	0.5	STRIPED HILLS
8 18:45:36	37.108	114.867	0.8	7.30	4.4	189	BD	2.1	2.3	DELAMAR 3 SE
9 14:46:58	37.348	117.747	0.4	-0.30	0.6	148	AC	---	1.8	MAGRUDER MTN
10 15:48: 5	37.389	115.412	0.2	0.77	0.4	80	AC	1.9	1.8	CUTLER RESERVOIR
11 17:48:46	37.219	115.940	1.2	5.82	2.0	289	BD	---	1.7	JANGLE RIDGE
11 20:31:47	37.245	115.087	0.3	-0.91	8.5	123	BC	1.9	1.8	DESERT HILLS NW
12 0:50:32	37.078	116.221	0.3	4.05	0.9	56	BA	1.9	2.0	TIPPIPAH SPRING
12 4:13:43	37.081	116.218	0.2	4.38	0.9	117	AB	1.6	1.3	TIPPIPAH SPRING
12 17:34: 1	36.751	115.886	0.8	7.23	6.9	284	CD	---	0.2	FRENCHMAN LAKE SE
13 18:36:28	36.806	116.031	0.6	3.80	3.2	317	BD	1.3	0.9	CANE SPRING

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	dd	Mblg	QUADRANGLE
NOV 15 18:51 5[illegible]	36.416	115.474	0.5	11.49	1.0	153	AC	2.0	1.7	CORN CREEK SPRINGS NW
16 1:54:41	37.201	117.379	0.3	4.34	2.3	107	BC	1.2	---	UBEHEBE CRATER
16 8: 9:46	37.297	116.932	2.2	-0.03	6.5	94	DD	2.0	---	TRAIL RIDGE
16 8:25:21	37.302	116.454	0.9	-0.22	4.3	122	BC	2.0	---	SILENT BUTTE
16 8:53:12	37.291	116.579	1.6	-0.09	2.2	111	CB	1.8	---	TRAIL RIDGE
16 8:53:12	37.302	116.557	2.3	-0.94•	---	108	DB	1.8	---	TRAIL RIDGE
16 8:55:30	37.307	116.480	0.7	-1.12	4.1	101	BC	1.7	---	SILENT BUTTE
16 9:21:55	37.312	116.467	1.5	-0.94•	---	121	CD	1.6	---	SILENT BUTTE
16 9:38:18	37.456	116.397	1.5	9.48	3.9	297	BD	1.7	---	SILENT CANYON NW
16 12: 6:51	36.165	114.728	10.9	7.05	5.7	286	DD	2.3	---	HOOVER DAM
16 14:42:23	37.293	116.467	1.0	-0.24	5.7	174	CC	2.0	---	SILENT BUTTE
17 21:56:19	37.302	116.349	0.2	3.38•	---	153	CC	1.9	1.6	DEAD HORSE FLAT
19 17:31:12	36.411	115.474	0.6	12.09	1.1	158	AC	---	1.7	CORN CREEK SPRINGS NW
20 14: 5:19	36.795	115.942	0.6	3.92	4.7	198	BD	---	1.0	FRENCHMAN FLAT
21 9:53:39	37.417	117.281	0.5	4.33	2.6	128	BC	---	1.2	MOUNT JACKSON
21 17:10: 0	36.999	116.399	0.3	8.53	0.4	162	AC	---	0.8	TOPOPAH SPRING NW
22 3:47: 7	36.899	115.974	0.2	8.87	1.0	154	AC	1.7	1.6	PLUTONIUM VALLEY
22 18:43:19	36.819	116.014	1.1	8.49	2.3	217	BD	1.4	1.1	CANE SPRING
22 20:27:31	36.866	116.046	0.2	1.90	0.5	117	AC	---	1.0	CANE SPRING
22 22:10:48	36.168	117.184	0.8	2.61	1.9	214	AD	2.2	1.8	TELESCOPE PEAK
23 19: 4: 8	36.868	116.716	0.4	6.67••	2.3	167	BC	1.3	0.9	BARE MTN
24 11:11: 9	36.819	116.143	0.4	4.72	0.5	269	AD	---	0.5	SKULL MTN
24 12:59:34	37.319	116.442	0.2	5.36	4.8	184	AC	1.6	1.2	SILENT BUTTE
24 18:59:46	36.982	116.747	0.7	0.63••	0.8	265	AD	1.3	1.1	BARE MTN
25 4:13:27	37.286	115.194	0.8	5.40	4.0	128	BC	---	1.4	ALAMO
25 14:51:49	36.819	116.034	0.2	-0.11	0.4	157	AC	---	1.0	CANE SPRING
25 22:50:59	36.898	116.700	1.2	5.03••	4.9	228	BD	---	0.6	BARE MTN
26 7:56:44	37.303	116.582	-0.2	1.90	0.7	79	AC	1.7	1.1	TRAIL RIDGE
26 13:28:18	37.077	116.799	1.4	3.23•	---	329	CD	---	1.0	SPRINGDALE
26 18: 1:44	37.300	116.501	0.3	4.52	1.9	53	AC	1.6	1.6	TRAIL RIDGE
26 16:57:36	37.311	116.444	0.1	4.86	1.0	185	AC	---	1.0	SILENT BUTTE
28 8:28:53	37.251	116.022	2.6	8.53	10.0	165	CC	1.6	---	TRAIL RIDGE
28 18:28:37	36.777	116.288	0.4	5.39	0.6	218	AD	1.0	0.3	SKULL MTN
28 19:19:35	36.898	116.262	0.3	9.28	0.4	76	AA	1.4	1.4	STRIPED HILLS
29 0:12:51	37.309	116.445	0.2	3.96	1.7	184	AC	1.5	1.0	SILENT BUTTE
29 23:42:00	36.481	116.509	0.2	1.79	0.7	182	AB	1.8	1.6	RYAN
DEC 1 21:33:58	37.301	115.193	0.3	8.09	0.5	174	AC	2.3	2.3	ALAMO
1 22:49:43	37.297	115.187	0.4	7.88••	7.7	175	CC	---	2.4	ALAMO
2 7:41:56	37.502	114.939	7.4	48.48	8.7	166	DC	1.5	---	PAHROC SUMMIT PASS
2 8:31:25	35.688	117.530	10.7	11.81	2.9	302	DD	2.0	---	RIDGECREST
2 8:50:57	37.509	115.057	9.6	33.07•	---	108	DB	1.6	---	MIKO SE
2 22: 8:44	37.311	116.451	0.4	7.11	1.0	268	AD	---	1.0	SILENT BUTTE
5 19:25:53	36.897	116.769	1.1	3.80•	---	266	CD	---	0.6	BULLFROG
7 3:54:47	37.187	117.397	0.2	5.09	1.1	113	AC	1.5	1.8	UBEHEBE CRATER
7 11:40: 5	37.192	117.375	0.2	5.14	0.9	109	AC	---	1.5	UBEHEBE CRATER
8 12:13:37	36.668	116.412	0.6	2.50	0.7	293	AD	1.6	0.6	LATHROP WELLS NW
9 22:59:26	37.047	116.016	0.7	9.75	1.3	213	AD	---	0.9	YUCCA FLAT
12 11:57:53	36.980	116.726	0.2	2.48	1.1	95	AC	1.7	1.7	BARE MTN
12 19:58:57	37.010	116.398	1.2	7.00••	1.0	168	BC	---	0.4	TIMBER MTN
13 10:59:19	37.2[illegible]	116.590	0.2	6.94	0.8	129	AB	1.5	0.9	THIRSTY CANYON NE
14 4:34:50	37.140	116.333	0.7	9.91	2.3	189	BD	1.3	---	AMMONIA TANKS
14 6:18:48	37.100	116.329	0.9	5.28	1.3	192	AC	1.3	---	AMMONIA TANKS
14 11:43:37	37.034	115.794	1.1	0.45	4.8	125	BC	1.4	---	PAPOOSE LAKE SE
14 19:22:01	37.148	116.324	0.3	0.09	0.8	119	AB	1.2	---	AMMONIA TANKS
14 21: 6: 6	37.145	116.320	0.3	1.48	0.6	68	AB	1.4	1.1	AMMONIA TANKS
14 23:59: 6	36.752	115.968	0.3	5.86	0.8	184	AC	---	1.0	FRENCHMAN FLAT
17 8: 2:22	37.334	115.885	0.4	7.03	0.8	161	AC	2.1	2.2	ALAMO SE
17 8: 5:10	37.387	115.124	0.4	2.34	2.1	168	BC	---	1.3	ALAMO NE
18 21:43:52	37.702	115.050	0.5	1.50	1.6	116	AC	---	1.2	MIKO NE
20 4:21:12	36.883	116.039	0.1	13.32	0.3	74	AA	1.9	2.2	SPECTER RANGE SE
20 4:21:43	36.884	116.046	0.2	9.75	0.8	137	AC	1.8	1.5	SPECTER RANGE SE
20 9:24: 6	36.883	116.044	0.2	11.83	0.5	86	AA	1.7	1.8	SPECTER RANGE SE
22 8:18:17	37.119	115.273	0.4	4.68	1.0	143	AC	---	1.4	DESERT HILLS SE
22 8:27:53	36.983	117.888	0.2	0.91	0.2	188	AD	---	1.3	DRY MTN
22 11:46:33	37.020	117.738	0.4	7.03	1.7	116	AB	---	1.4	LIDA WASH
22 16:58: 3	36.011	116.032	0.5	4.91	3.1	191	BD	---	0.5	CANE SPRING

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1985 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)		LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
DEC 23	1: 9:59	35.724	115.986	0.6	-0.12	0.5	280	DD	1.6	---	KINGSTON PEAK
24	13: 9:14	36.824	115.997	0.8	6.26	2.0	248	BD	---	0.5	FRENCHMAN FLAT
24	21:19:43	36.813	115.827	0.3	0.56	0.4	154	AC	1.8	1.3	FRENCHMAN LAKE SE
24	21:29:19	36.781	116.031	0.4	11.50	0.9	165	AC	---	0.9	CANE SPRING
26	13:39:21	37.383	116.988	0.3	11.21	1.8	80	AC	---	1.4	TOLICHA PEAK
27	17:46:40	36.863	115.968	0.3	5.00	2.0	149	BC	1.8	1.2	FRENCHMAN FLAT
27	18:54:46	36.894	115.963	0.5	3.93	0.5	213	CD	---	0.9	FRENCHMAN FLAT
29	3:37:38	37.109	116.948	0.2	7.39	1.0	106	AC	---	0.9	SPRINGDALE
29	9:30:59	37.199	117.944	0.4	1.61	1.2	153	AC	---	1.2	LAST CHANCE RANGE
30	2: 0:44	36.983	116.898	0.2	0.26	0.3	116	AC	---	0.8	BULLFROG
31	3: 6: 1	37.214	117.958	0.5	5.08	1.4	143	AC	---	1.1	LAST CHANCE RANGE
31	7:11:12	37.038	115.230	0.3	4.07	3.8	167	BC	2.3	2.3	LOWER PAHRANAGAT LAKE SW
31	14:14:29	36.975	116.009	0.2	8.66	0.8	175	AC	---	0.8	YUCCA LAKE
31	20:27:58	37.182	116.588	0.2	8.78	1.0	103	AC	---	1.2	THIRSTY CANYON NE

9075000/002

1986 LOCAL HYPOCENTER SUMMARY

DATE		TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JAN	1	0:35:45	37.177	116.583	0.3	2.71	1.0	102	AC	1.4	1.0	THIRSTY CANYON NE
	2	5: 0:51	37.068	115.233	0.4	8.13	0.7	178	AC	---	1.5	LOWER PAHRANAGAT LAKE SW
	2	7:35:33	37.502	115.190	0.4	6.81	1.0	111	AB	---	1.2	HIKO SE
	2	8:28:27	37.198	117.541	0.2	0.09	0.3	129	AC	2.0	1.4	LAST CHANCE RANGE
	2	11:40:21	37.289	115.207	0.0	5.45	3.1	123	BC	2.0	1.0	ALAMO
	3	0:44:40	37.487	116.609	0.2	8.03	0.9	80	AC	---	1.1	BLACK MTN NE
	6	11:35:47	37.007	117.437	0.3	-0.07	0.5	134	AC	2.3	2.1	UBEHEBE CRATER
	6	13: 4: 7	37.182	116.320	0.2	2.09	0.4	77	AB	---	0.8	AMMONIA TANKS
	6	18:14:60	36.651	116.274	0.2	6.70	0.6	117	AB	---	0.8	STRIPED HILLS
	7	4: 4:28	36.784	116.273	0.4	0.81	0.2	140	AC	---	0.3	JACKASS FLATS
	7	0:21:29	37.348	117.236	0.3	-0.24	0.3	54	AB	1.9	1.8	SCOTTYS JUNCTION SW
	7	8:50:60	36.519	116.083	0.2	0.13	1.2	61	AC	1.7	1.1	BIG DUNE
	7	18:42: 0	37.180	116.594	0.3	0.73	1.2	100	AB	1.4	1.0	THIRSTY CANYON NE
	7	22:18:00	37.049	115.997	0.4	4.58	3.5	221	BD	---	1.0	PAIUTE RIDGE
	8	18:23:38	36.730	116.212	0.2	2.70	0.5	64	AB	1.7	1.7	SPECTER RANGE NW
	8	18: 7:11	36.725	116.207	0.2	2.37	0.3	219	AD	---	0.6	SPECTER RANGE NW
	9	18:40:27	36.647	116.270	0.3	0.38	0.5	121	AB	---	0.7	STRIPED HILLS
	9	21:12:23	37.187	117.548	0.2	4.54	1.5	136	AC	---	1.0	LAST CHANCE RANGE
	9	23:35:35	36.650	116.266	0.3	0.66	0.6	110	AB	---	1.0	STRIPED HILLS
	10	12:33: 9	37.573	117.459	0.2	2.46	0.5	94	AC	---	1.1	MONTEZUMA PEAK SW
	11	2:12:15	36.812	116.035	0.1	0.02	0.2	121	AC	---	0.9	CANE SPRING
	11	0:34:20	37.301	116.449	0.1	5.43	0.6	100	AC	---	1.0	SILENT BUTTE
	11	8:38:31	36.992	115.262	0.3	11.29	0.9	189	AC	1.0	1.0	MULE DEER RIDGE NW
	11	9:10:14	36.998	115.246	0.9	10.41	1.3	218	AD	---	1.4	MULE DEER RIDGE NW
	11	9:19: 5	36.992	115.240	1.0	9.14	1.0	203	AD	---	1.3	MULE DEER RIDGE NW
	11	10: 4:18	37.338	117.247	0.3	0.88	0.2	112	AB	---	1.0	SCOTTYS JUNCTION SW
	13	22: 0:39	36.876	116.209	0.5	3.66	1.3	132	AB	---	0.6	MINE MTN
	14	0: 5:35	36.960	117.103	0.2	8.29	0.8	79	AA	1.9	1.5	GRAPEVINE PEAK
	16	11:20:46	36.722	117.251	0.4	1.47	1.2	106	AB	2.1	1.0	MARBLE CANYON
	16	14:28:59	36.870	115.972	0.2	2.59	0.6	124	AB	---	0.9	FRENCHMAN FLAT
	16	14:37:45	36.871	115.977	0.1	2.30	0.4	123	AB	1.8	1.2	FRENCHMAN FLAT
	16	15:24:52	36.873	115.984	0.2	1.37	0.8	77	AB	2.3	2.1	FRENCHMAN FLAT
	16	15:41:35	36.871	115.969	0.2	1.88	0.5	125	AC	1.8	0.8	FRENCHMAN FLAT
	16	16:27:19	36.873	115.975	0.2	4.76	1.2	149	AC	---	0.9	FRENCHMAN FLAT
	16	19:23:39	36.881	115.980	0.1	5.41	1.1	153	AC	1.4	1.0	PLUTONIUM VALLEY
	16	22:10:23	36.858	116.386	0.4	7.06	0.9	159	AC	---	0.8	LATHROP WELLS NW
	16	22:10:34	36.871	115.568	0.3	3.09*	---	125	CC	1.6	1.2	FRENCHMAN FLAT
	17	2:19:31	37.078	116.081	0.5	4.31	3.4	37	BC	1.7	1.4	SPRINGDALE
	17	3: 6:37	36.895	115.927	0.4	4.50	1.4	200	AC	---	0.9	PLUTONIUM VALLEY
	17	3:30:00	36.872	115.974	0.2	2.74	0.5	158	AC	---	0.9	FRENCHMAN FLAT
	17	6:34: 7	37.166	114.904	0.5	0.26	0.5	196	AD	---	1.0	DELAMAR 3 NW
	17	18:43:49	37.363	114.642	0.0	0.98	6.7	223	AD	2.0	2.2	ELGIN SW
	18	11:51: 2	36.854	116.200	0.1	4.15	0.4	50	AB	1.5	1.2	JACKASS FLATS
	18	12:50:22	36.843	116.264	0.2	0.50	0.4	61	AA	1.5	1.4	JACKASS FLATS
	18	14:44:55	36.863	116.384	0.3	9.44	0.7	210	AD	---	0.8	LATHROP WELLS NW
	19	9:38:18	36.842	116.015	0.2	9.08	0.5	92	AB	---	0.9	SPECTER RANGE SE
	20	5:48:20	37.334	117.725	0.1	1.46	0.4	155	AC	---	1.1	MAGRUDER MTN
	20	6: 2:14	36.873	115.968	0.2	4.09	1.7	152	AC	---	0.7	FRENCHMAN FLAT
	20	11: 1:34	36.816	116.000	0.4	10.37	0.6	186	AD	---	1.3	CANE SPRING
	21	17:20:37	37.032	118.021	0.4	4.21	2.6	288	BD	---	1.6	***REGIONAL***
	22	7:25:17	37.238	114.601	0.9	14.68	1.3	229	AD	1.4	1.5	VIGO NW
	22	9: 1: 3	37.213	117.920	0.4	6.18	1.5	225	AD	2.0	1.8	WAUCOBA SPRING
	22	16:52: 9	36.660	116.297	0.2	2.80	0.3	76	AA	1.3	0.8	STRIPED HILLS
	22	16:54:20	36.650	116.271	1.4	3.32	5.6	266	BD	---	0.8	STRIPED HILLS
	22	23:22:49	36.658	116.291	0.2	2.05	0.4	135	AB	---	0.4	STRIPED HILLS
	22	23:28:13	36.659	116.294	0.2	2.68	0.3	64	AA	1.8	1.4	STRIPED HILLS
	22	23:32:36	36.662	116.298	0.2	3.07	0.8	132	AB	1.5	1.1	STRIPED HILLS
	23	1:26:30	36.664	116.286	0.1	3.50	0.3	139	AC	---	0.3	STRIPED HILLS
	23	1:41:58	36.662	116.296	0.3	3.68	0.5	230	AD	---	0.2	STRIPED HILLS
	23	1:42:50	36.660	116.290	0.3	3.34	0.4	240	AD	---	0.4	STRIPED HILLS
	23	1:52: 8	36.668	116.299	0.2	0.43	0.1	129	AB	---	0.5	STRIPED HILLS
	23	7: 5:30	36.657	116.288	0.4	3.63	0.8	240	AD	---	0.5	STRIPED HILLS
	23	12:40:11	36.664	116.300	0.4	1.02	2.1	224	BD	---	0.3	STRIPED HILLS
	23	17: 0:35	36.979	116.284	0.2	3.03	0.8	93	AB	1.4	0.9	TOPOPAH SPRING
	23	17:56: 0	36.980	116.286	0.2	3.95	0.9	96	AB	---	0.6	TOPOPAH SPRING
	23	23:49:38	37.369	114.641	0.0	7.73	2.2	264	BD	---	1.4	ELGIN SW

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1986 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JAN 25	4:58: 4	36.814	116.838	0.2	4.43	2.0	123	BC	1.0	1.6	CANE SPRING
25	11:19:45	37.467	117.588	0.2	4.33	0.9	82	AB	---	1.1	MAGRUDER MTN
25	14:22:51	36.617	116.259	0.4	5.36	0.9	148	AC	---	0.7	LATHROP WELLS SE
25	16:25: 4	36.808	116.826	0.3	5.72	1.4	172	AC	1.7	1.0	CANE SPRING
25	21: 2:44	36.809	116.831	0.1	4.18	1.3	121	AC	1.4	1.0	CANE SPRING
25	22:19:22	37.811	114.848	0.8	11.20	1.1	288	AD	1.8	1.6	CHOKECHERRY MTN
25	23:17:43	37.258	114.883	0.7	3.46*	---	240	CD	1.8	1.9	ELGIN
26	11: 1:17	36.787	116.832	0.2	3.87	1.7	156	AC	---	0.7	CANE SPRING
26	11:48:10	37.004	115.281	0.2	5.97	1.3	131	AC	2.3	2.2	DESERT HILLS SE
26	15:22:37	37.213	114.822	0.6	2.64	1.0	234	AB	2.0	2.0	VIGO NE
26	15:43:58	37.209	114.818	0.8	4.77*	---	279	CD	1.9	1.8	VIGO NE
26	18:28:51	37.214	114.781	0.9	11.98	2.4	287	BD	1.7	1.8	DELAMAR 3 NE
27	2:19:54	37.141	116.287	0.1	3.97	0.5	97	AB	---	0.7	AMMONIA TANKS
27	6:41:29	36.812	116.833	0.2	6.72	0.3	122	AC	1.7	1.2	CANE SPRING
27	14:38:43	36.888	117.093	0.2	4.61	2.6	117	BC	1.6	1.1	STOVEPIPE WELLS
28	18:12:49	36.815	116.834	0.1	1.60	0.3	122	AC	1.6	1.0	CANE SPRING
29	1:53:32	37.222	117.932	0.4	9.92	1.1	231	AD	1.6	1.4	WAUCOBA SPRING
29	21: 3:50	36.803	115.487	0.3	8.10	0.6	105	AC	1.9	1.6	DOG BONE LAKE SOUTH
30	2:58:58	36.822	115.993	0.5	14.65	1.8	196	AD	---	0.8	FRENCHMAN FLAT
30	8:28:34	37.856	116.836	0.2	5.17	1.6	116	AC	---	1.0	YUCCA FLAT
30	19:20:53	36.888	116.292	0.1	2.32	0.2	134	AB	---	0.7	STRIPED HILLS
31	11: 7:56	36.996	116.471	0.7	10.30	1.2	282	AD	---	0.2	TOPOPAH SPRING NW
FEB 1	0:52:20	36.802	116.826	0.2	3.85	1.5	121	BC	1.8	1.5	CANE SPRING
1	14:49: 7	36.889	116.292	0.4	1.55	0.9	240	AD	---	0.5	STRIPED HILLS
2	18:49:44	36.838	116.315	0.3	4.19	0.4	79	AA	---	0.4	JACKASS FLATS
2	22: 7:39	36.818	116.817	0.4	10.58	0.9	188	AD	---	1.1	CANE SPRING
3	5:43:57	36.237	117.266	0.8	11.65	2.6	228	BD	---	1.1	MATURANGO
3	8:39:29	36.881	116.283	0.8	2.86	0.7	224	AD	---	0.5	STRIPED HILLS
3	13:58: 7	36.818	116.825	0.4	5.68	2.0	148	BC	---	0.8	CANE SPRING
3	22:37:48	36.871	115.978	0.3	0.02	0.5	173	AC	---	0.9	FRENCHMAN FLAT
4	5:25:21	36.871	115.978	0.2	2.58	0.7	123	AB	2.0	1.5	FRENCHMAN FLAT
5	0:51: 5	36.716	115.824	1.1	3.00	1.2	194	BD	---	1.3	MERCURY NE
5	2:28:57	37.139	115.425	0.5	6.25	3.0	134	BC	---	1.4	DESERT HILLS NW
5	15:41:39	36.617	116.972	0.2	11.31	0.8	81	AB	1.8	1.2	CHLORIDE CLIFF
5	16:20:11	37.926	116.886	0.2	5.13	1.0	124	CC	2.0	1.7	REVEILLE PEAK
5	21:21: 6	37.155	116.204	0.3	0.18	0.4	181	AC	1.5	1.3	RAINIER MESA
6	5: 4:53	36.592	117.086	0.3	4.66	3.5	114	BC	---	1.3	STOVEPIPE WELLS
6	5:40:43	36.589	117.088	0.2	4.73	2.4	110	BC	2.0	1.6	STOVEPIPE WELLS
6	6:44:38	36.589	117.089	0.2	5.83	1.6	115	AC	2.2	2.7	STOVEPIPE WELLS
6	6:48:12	36.591	117.085	0.1	0.45	0.2	114	AC	1.8	1.4	STOVEPIPE WELLS
7	2:36:41	36.591	117.086	0.2	0.49	0.3	114	AC	---	1.2	STOVEPIPE WELLS
7	8: 2:58	36.592	117.085	0.2	0.72	0.2	110	AC	---	1.3	STOVEPIPE WELLS
7	10:30:49	36.593	117.093	0.2	4.55	2.2	115	BC	---	1.3	STOVEPIPE WELLS
7	19: 9:16	36.578	115.233	0.4	2.87	1.7	207	AD	2.0	1.9	HAYFORD PEAK
7	21:15:21	36.829	115.383	0.3	15.05	1.7	131	AC	2.1	2.1	DEAD HORSE RIDGE
8	7:16:50	36.963	117.181	0.3	5.95	2.2	140	BC	---	1.8	GRAPEVINE PEAK
8	8:59:25	36.837	115.349	0.2	2.89	1.2	178	AC	1.9	1.6	DEAD HORSE RIDGE
8	13:30: 4	36.869	115.977	0.3	0.78	0.5	123	AB	2.0	2.1	FRENCHMAN FLAT
9	1: 4:56	36.868	115.973	0.2	1.67	0.5	124	AC	1.4	1.2	FRENCHMAN FLAT
9	2:53: 2	36.867	115.976	0.2	0.98	0.3	123	AB	1.7	1.3	FRENCHMAN FLAT
9	11:39:31	36.888	116.445	0.9	-0.01	0.4	186	BC	0.8	0.8	TOPOPAH SPRING NW
9	15:47:43	37.255	115.027	0.4	4.89	1.5	203	AD	1.7	1.5	ALAMO SE
9	16: 1:52	37.883	116.124	0.3	14.23	1.0	112	AC	2.3	1.9	REVEILLE PEAK
9	18:40:38	37.887	116.129	0.5	5.48	0.2	148	CC	---	1.9	REVEILLE PEAK
10	13:23:19	36.737	115.956	0.3	1.87	0.7	188	AC	---	0.8	MERCURY
10	13:31:32	37.136	116.288	0.2	4.69	2.3	103	BC	1.8	1.7	AMMONIA TANKS
10	20:34:52	37.246	115.012	0.5	4.73	2.3	198	BD	2.1	1.7	LOWER PAHRANAGAT LAKE
11	8:28:37	37.894	116.137	0.3	6.02	2.2	106	BC	---	1.6	REVEILLE PEAK
11	11:31:47	36.887	116.217	0.2	8.78	0.5	106	AB	---	0.5	SPECTER RANGE NW
11	13:18:37	37.264	115.015	0.6	2.81	3.9	122	BC	1.4	1.6	GROOM RANGE SE
11	14:10:55	36.648	116.220	0.2	0.56	0.5	113	AB	---	0.6	SPECTER RANGE NW
12	4:29:56	37.406	116.877	0.2	4.37	1.3	71	AC	---	1.2	WHEELBARROW PEAK NE
13	8:28:34	37.388	115.010	1.1	5.34	1.5	175	BC	---	1.1	ALAMO SE
13	11: 8:19	37.382	115.019	1.4	5.68	1.9	172	BC	1.3	1.1	ALAMO SE
13	13:41:48	36.868	115.967	0.2	0.08	0.4	125	AC	---	0.9	FRENCHMAN FLAT
14	0:50:24	36.639	116.334	0.2	1.58	0.2	68	AA	1.1	0.9	STRIPED HILLS

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1986 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
FEB 14	2:33:22	37.052	116.137	0.3	0.03	0.4	105	AC	---	1.6	REVEILLE PEAK
14	4: 7:25	37.085	117.481	0.2	0.05	0.8	140	AC	---	1.4	UBEHEBE CRATER
14	7:36:26	37.151	114.928	1.8	8.40	5.1	257	CD	---	1.9	DELAMAR 3 NW
16	23:25:57	36.846	115.888	0.3	10.08	0.8	211	AD	---	1.6	FRENCHMAN FLAT
17	7:29:12	36.433	117.031	0.3	8.40	0.6	122	AB	---	1.1	EMIGRANT CANYON
17	20:13:59	37.025	116.484	0.6	4.59	1.4	191	AD	1.8	0.9	TIMBER MTN
17	20:29:25	37.020	116.464	0.2	8.03	0.6	89	AA	1.7	1.7	TIMBER MTN
17	21: 8:17	37.027	116.473	0.1	4.84	0.7	92	AB	1.5	1.1	TIMBER MTN
17	21:21:17	37.021	116.478	0.7	4.84	1.2	195	AD	---	0.8	TIMBER MTN
17	23:32:54	36.750	115.969	0.4	8.51	0.8	170	AC	-0.5	0.8	FRENCHMAN FLAT
18	1: 7:49	37.025	116.480	0.2	5.09	1.0	92	AB	1.5	1.2	TIMBER MTN
18	1:23:28	37.035	116.487	0.6	8.40	0.8	246	AD	---	0.4	TIMBER MTN
18	1:50:48	36.593	117.094	0.1	8.30	0.2	115	AC	1.9	1.0	STOVEPIPE WELLS
18	1:59:30	37.025	116.472	0.6	9.33	0.6	230	AD	---	0.6	TIMBER MTN
18	2: 0:35	37.019	116.470	0.3	9.17	0.5	174	AC	1.6	1.4	TIMBER MTN
18	2:23:32	37.018	116.461	0.2	9.05	0.5	83	AA	1.6	1.7	TIMBER MTN
18	3: 3:13	37.037	116.483	0.8	5.78	1.1	247	AD	---	0.5	TIMBER MTN
18	3:48:21	37.018	116.463	0.2	8.87	0.4	121	AB	1.8	1.6	TIMBER MTN
18	5:49: 6	37.018	116.450	0.5	10.62	0.4	221	AD	---	0.4	TIMBER MTN
18	13:36: 4	37.025	116.475	0.3	9.06	0.9	187	AB	---	0.7	TIMBER MTN
18	15:28:53	37.024	116.473	0.1	7.32	0.6	89	AB	1.5	1.4	TIMBER MTN
18	15:54: 5	37.137	116.094	0.2	4.46	2.4	114	BC	---	1.0	SPRINGDALE
18	19:53: 6	37.024	116.475	0.2	8.48	2.7	91	AB	1.7	1.1	TIMBER MTN
18	20: 9:36	36.728	115.944	1.3	6.02	2.3	162	BC	---	[illegible]	MERCURY
18	23:31:16	36.725	116.074	0.2	-1.01	0.3	94	AC	1.6	1.9	CAMP DESERT ROCK
19	1:23:32	36.810	116.017	0.4	10.01	0.9	163	AC	---	0.7	CANE SPRING
19	2:51: 5	36.420	116.291	0.3	9.05	0.5	192	AC	1.5	1.2	ASH MEADOWS
20	19:55:58	37.863	116.127	0.3	-0.19	0.5	168	AC	2.0	2.0	REVEILLE PEAK
22	0:12:33	36.974	117.452	0.4	1.63	1.0	193	AC	---	1.0	TIN MTN
22	7:56: 9	36.832	117.360	0.5	8.82	1.1	94	AB	---	0.9	TIN MTN
24	11:54:29	37.524	115.756	0.3	2.65	1.1	56	AC	2.1	1.8	WHITE BLOTCH SPRINGS
24	15:20:49	37.056	115.265	0.3	6.09	1.0	162	AC	1.9	1.9	DESERT HILLS SE
25	0: 2: 7	36.808	116.031	0.3	0.08	0.5	121	AC	---	0.8	CANE SPRING
25	0: 4:57	37.279	115.202	0.3	0.22	0.7	98	AC	---	1.9	BADGER SPRING
25	9:23:42	37.490	115.398	0.2	7.11	1.4	84	AC	---	1.1	CRESCENT RESERVOIR
25	18:44:09	37.054	115.266	0.5	5.26	2.4	193	BD	2.1	1.8	DESERT HILLS SE
26	2:37:18	37.185	117.368	0.2	9.48	0.5	98	AB	1.7	1.4	UBEHEBE CRATER
26	6:42: 7	37.184	117.387	0.4	8.49	1.0	112	AB	---	1.0	UBEHEBE CRATER
26	6:43:48	36.688	115.812	0.5	-0.44	0.4	144	AC	---	1.0	MERCURY NE
26	6:59: 8	36.760	115.735	0.4	-0.04	0.7	168	AC	---	1.4	QUARTZ PEAK SW
26	7:11:12	36.705	115.790	0.5	0.75	0.2	195	AC	---	1.2	MERCURY NE
26	7:14: 7	36.708	115.802	0.3	4.63	4.[illegible]	189	BB	1.5	1.4	MERCURY NE
26	17:46: 8	37.192	117.388	0.2	5.47	1.3	114	AC	---	1.3	UBEHEBE CRATER
27	2:10:53	36.674	115.704	0.5	-1.16	0.3	225	AD	---	1.2	MERCURY NE
27	2:[illegible]8:18	36.665	115.790	0.5	-0.77	0.5	165	BC	1.7	1.0	MERCURY NE
27	2:29:51	36.679	115.796	0.9	15.20	2.5	195	BD	---	1.3	MERCURY NE
27	2:44:56	36.709	115.783	0.6	0.08	0.3	223	AD	---	0.9	MERCURY NE
27	2:50: 3	36.710	115.799	0.4	-0.56	0.4	189	AB	---	1.0	MERCURY NE
27	6:51:32	36.702	115.776	0.8	0.46	0.3	228	AD	---	1.3	MERCURY NE
27	6:57:33	36.705	115.778	0.2	7.93	2.1	158	BC	---	1.1	MERCURY NE
27	6:58:59	36.709	115.800	0.4	0.04	0.2	196	AB	1.5	0.9	MERCURY NE
27	20:36:40	37.538	116.931	0.5	7.01	4.0	83	BC	---	1.1	WELLAN
28	20: 5:50	36.821	115.811	0.7	4.50	3.4	203	BD	---	1.2	FRENCHMAN LAKE SE
28	23:42: 4	36.635	116.335	0.2	3.63	0.4	69	AA	1.2	0.8	STRIPED HILLS
MAR 1	3:21:46	37.288	115.206	0.7	6.38	2.9	123	BC	1.4	1.4	ALAMO
2	4:24: 4	37.299	116.729	0.6	0.73	2.5	90	BB	1.7	---	BLACK MTN SW
2	20:44:39	37.158	117.336	0.2	6.78	0.5	106	AC	---	0.8	UBEHEBE CRATER
2	21: 0: 6	37.163	117.332	0.2	7.27	0.5	103	AC	2.0	1.5	UBEHEBE CRATER
2	21:47:55	37.057	116.132	0.4	2.15	2.9	106	BC	1.4	1.7	REVEILLE PEAK
3	18: 4:37	37.223	117.328	0.4	6.10	1.1	90	AB	---	0.9	UBEHEBE CRATER
5	7:30:41	37.275	116.214	0.2	7.36	0.7	107	AB	---	0.9	QUARTET DOME
5	18:49: 0	37.071	116.375	0.3	8.76	0.9	111	AC	---	1.4	QUARTZITE MTN
5	23:41:56	37.141	116.076	0.4	8.02	1.0	113	AB	1.6	1.3	SPRINGDALE
6	1:15:24	37.088	116.133	0.3	6.12	2.3	106	BC	2.0	1.6	REVEILLE PEAK
6	20:18:53	37.160	117.389	0.1	8.08	0.3	102	AC	3.0	2.4	UBEHEBE CRATER
6	20:28: 6	37.163	117.381	0.2	8.52	0.7	109	AC	---	1.4	UBEHEBE CRATER

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9075900/605

1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAR 6 20:24:15	37.161	117.353	0.3	9.18	0.8	110	AB	1.2	1.5	UBEHEBE CRATER
6 20:29:11	37.158	117.366	0.3	5.01	2.2	103	BC	2.1	1.9	UBEHEBE CRATER
6 20:29:59	37.166	117.352	0.2	10.03	0.7	109	AB	---	1.3	UBEHEBE CRATER
6 20:31:26	37.162	117.352	0.2	5.72	0.8	110	AC	1.2	1.1	UBEHEBE CRATER
6 20:36:11	37.164	117.381	0.2	5.78	1.0	89	AC	1.4	1.2	UBEHEBE CRATER
6 20:37:44	37.163	117.356	0.2	8.83	0.8	111	AB	1.9	1.7	UBEHEBE CRATER
6 20:43:47	37.164	117.384	0.2	7.34	0.9	110	AC	1.8	1.6	UBEHEBE CRATER
6 20:46:44	37.161	117.361	0.2	8.82	0.8	113	AC	---	1.0	UBEHEBE CRATER
6 20:52:38	37.167	117.388	0.1	7.78	0.4	111	AC	---	1.3	UBEHEBE CRATER
6 20:55:19	37.168	117.390	0.2	8.31	0.6	111	AC	---	1.4	UBEHEBE CRATER
6 21:24:25	37.162	117.388	0.2	7.33	0.9	112	AC	1.2	1.5	UBEHEBE CRATER
6 21:40:34	37.159	117.389	0.2	6.49	0.9	102	AC	1.9	1.6	UBEHEBE CRATER
6 22:18:32	37.160	117.390	0.2	8.40	0.6	101	AC	1.6	1.4	UBEHEBE CRATER
7 0:11:28	37.164	117.358	0.2	6.87	0.7	101	AC	1.9	1.7	UBEHEBE CRATER
7 0:31:27	37.163	117.360	0.2	7.89	0.6	161	AC	1.7	1.8	UBEHEBE CRATER
7 1: 0:34	37.165	117.354	0.2	7.31	0.9	110	AC	---	1.0	UBEHEBE CRATER
7 4:28:15	37.162	117.396	0.2	7.58	0.8	111	AC	---	1.2	UBEHEBE CRATER
7 13:36:08	37.856	116.134	0.2	1.84	0.7	100	AC	---	1.2	REVEILLE PEAK
7 16:48:28	37.160	117.393	0.2	6.12	0.9	111	AC	1.6	1.1	UBEHEBE CRATER
7 18:51:32	36.814	116.744	0.8	1.65	0.9	241	AD	---	0.8	BARE MTN
8 6:28:13	37.161	117.351	0.2	6.12	1.1	110	AC	---	1.2	UBEHEBE CRATER
9 0: 9:41	37.070	115.259	0.3	6.84	0.9	102	AC	---	1.9	DESERT HILLS SE
10 7:32:10	37.294	115.038	1.1	1.93	1.4	200	BD	---	0.9	ALAMO SE
12 15:21:57	36.699	116.287	0.2	3.01	0.4	81	AA	1.3	0.8	STRIPED HILLS
14 2: 9:22	37.710	117.004	0.8	14.36	1.2	233	AD	---	1.0	LIDA WASH
14 3: 8:47	36.850	116.202	0.2	7.82	0.4	62	AB	1.6	1.0	JACKASS FLATS
14 5:47:15	37 343	117.243	0.2	8.09	0.1	98	AB	2.2	1.7	SCOTTYS JUNCTION SW
14 7:24:38	37.011	116.193	0.3	6.18	0.7	89	AA	1.0	1.0	TIPPIPAH SPRING
14 9:23:01	37.345	117.238	0.3	0.48	0.2	71	AB	2.0	2.1	SCOTTYS JUNCTION SW
14 15:11:32	37.159	117.364	0.2	6.32	1.0	115	AC	---	1.2	UBEHEBE CRATER
14 16:35:57	37.344	117.238	0.2	0.42	0.2	53	AB	2.5	2.5	SCOTTYS JUNCTION SW
14 21: 9: 6	37.352	117.226	0.3	-0.60	0.2	137	AC	1.8	1.4	SCOTTYS JUNCTION SW
15 0:50:51	37.348	117.241	0.4	-0.18	0.3	134	AB	---	1.0	SCOTTYS JUNCTION SW
15 14:41: 1	37.029	116.413	0.2	8.85	0.3	120	AB	1.6	1.6	TIMBER MTN
16 0:39: 9	37.142	116.876	0.3	5.00	2.2	102	BC	1.0	1.2	SPRINGDALE
16 4:19:48	37.015	117.939	0.5	2.50	1.9	239	AD	---	1.5	WAUCOBA SPRING
16 10:21: 4	37.061	115.271	0.4	4.93	2.2	161	BC	2.0	2.1	DESERT HILLS SE
16 11:44: 5	36.869	115.967	0.2	4.21	3.5	120	BC	1.1	1.0	FRENCHMAN FLAT
17 7:15: 6	36.401	115.472	0.4	0.05	0.5	125	AC	---	1.2	CORN CREEK SPRINGS NW
17 19:43: 0	37.140	116.069	0.1	0.66	0.2	132	AC	---	1.1	SPRINGDALE
18 4:50:48	37.162	117.394	0.2	6.63	0.9	111	AC	---	1.4	UBEHEBE CRATER
18 7:52:12	37.277	115.280	0.5	4.82	3.3	104	BC	2.1	2.2	BADGER SPRING
19 0:23:45	37.282	115.283	0.5	1.93	1.7	102	AC	1.9	2.1	BADGER SPRING
19 10: 7: 5	37.287	115.280	0.3	0.65	0.4	115	AC	---	1.3	BADGER SPRING
19 21:37:49	37.258	115.290	0.5	11.70	1.8	130	AB	---	1.3	BADGER SPRING
19 13: 9:17	37.347	117.237	0.2	0.31	0.2	54	AB	2.3	2.4	SCOTTYS JUNCTION SW
19 23: 4:57	37.292	115.261	0.3	5.34	1.8	121	AC	---	1.2	BADGER SPRING
19 23: 7:13	37.276	115.285	0.5	4.36	4.8	101	BC	1.7	1.9	BADGER SPRING
20 5: 5:10	37.318	114.860	0.4	3.13*	---	212	CD	1.6	1.5	GREGERSON BASIN
20 11: 2:53	37.265	115.253	0.5	0.30	1.8	128	AB	---	1.3	BADGER SPRING
20 11:13: 2	37.266	115.254	0.5	0.26	1.3	128	AB	---	1.5	BADGER SPRING
20 11:37: 1	37.266	115.251	0.4	0.09	1.2	112	AB	---	1.7	BADGER SPRING
20 20:20:30	37.010	116.793	0.4	1.73	1.4	113	BC	---	1.0	SPRINGDALE
21 0:38:26	37.347	117.235	0.2	0.41	0.2	54	AB	1.8	2.2	SCOTTYS JUNCTION SW
23 4:59:16	36.776	116.050	0.1	5.40	0.8	189	AC	---	1.3	CANE SPRING
23 6: 9:21	36.937	116.793	0.2	2.98	1.1	96	AC	1.6	0.8	BULLFROG
23 7:58:12	37.428	116.777	0.2	-0.14	0.3	71	AC	2.2	2.4	TOLICHA PEAK
24 11:59:45	37.073	116.072	0.5	-0.56*	---	79	CC	1.0	---	YUCCA FLAT
25 18: 8:51	37.346	117.235	0.2	0.50	0.2	54	AB	1.9	1.8	SCOTTYS JUNCTION SW
26 15:45: 7	37.028	116.144	0.3	7.01	0.5	200	AD	---	0.8	TIPPIPAH SPRING
27 13:44: 0	36.358	115.881	1.2	21.43	1.3	320	BD	1.9	---	MT STIRLING
28 13: 6:40	36.850	115.930	0.2	5.07	1.5	148	AC	---	0.9	FRENCHMAN FLAT
29 16:43:40	37.164	117.353	0.3	0.51	0.8	110	AC	---	1.3	UBEHEBE CRATER
30 6: 8:33	37.095	116.053	0.3	4.43	1.5	137	AC	1.5	1.1	YUCCA FLAT
30 10:46:29	36.870	115.873	0.3	0.84	0.4	124	AB	---	0.9	FRENCHMAN FLAT
31 8:27:55	37.350	117.229	0.4	-0.17	0.2	184	AD	---	1.0	SCOTTYS JUNCTION SW

1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)			LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAR	31	8:11:31	37.142	116.293	0.2	8.01	0.3	82	AB	1.7	1.4	AMMONIA TANKS
	31	8:51:24	36.998	116.240	0.2	6.42	0.3	84	AA	1.4	1.2	MINE MTN
	31	18:31:20	36.717	116.277	0.3	5.22	0.3	120	AB	1.4	0.8	STRIPED HILLS
	31	21:53:33	36.645	115.948	0.2	14.20	0.3	72	AA	1.7	1.7	MERCURY
APR	1	12:29:11	36.727	116.070	0.2	5.40	2.0	89	BC	0.7	1.3	CAMP DESERT ROCK
	1	20:11: 4	36.168	117.411	0.4	7.20	1.0	240	AD	0.6	1.7	MATURANGO
	4	18:33:23	37.583	117.390	1.0	10.37	2.0	155	BC	0.2	1.5	MONTEZUMA PEAK SW
	4	18:33:37	37.577	117.483	1.0	0.94	2.0	170	BC	0.0	1.0	MONTEZUMA PEAK SW
	4	18:40:13	37.575	117.428	0.2	0.42	0.3	126	AC	1.9	1.9	MONTEZUMA PEAK SW
	4	18:44: 4	37.574	117.426	0.8	4.20	3.8	126	BC	1.9	1.8	MONTEZUMA PEAK SW
	4	18:49:15	37.583	117.402	0.3	0.81	0.4	115	AC	0.7	1.3	MONTEZUMA PEAK SW
	4	18:52: 7	37.581	117.410	0.5	0.34	1.2	122	AB	0.6	1.3	MONTEZUMA PEAK SW
	4	18:53:54	37.580	117.413	0.3	0.91	1.1	145	AC	0.6	1.4	MONTEZUMA PEAK SW
	4	18:55:47	37.578	117.423	0.6	0.02	2.4	138	BC	0.6	1.5	MONTEZUMA PEAK SW
	4	18:56:52	37.577	117.426	0.5	4.95	1.7	168	AC	0.6	1.2	MONTEZUMA PEAK SW
	4	18:58:29	37.573	117.423	0.3	0.47	0.4	125	AC	1.0	1.7	MONTEZUMA PEAK SW
	4	19:15:35	37.577	117.438	0.8	3.92	0.8	172	CC	---	1.1	MONTEZUMA PEAK SW
	4	19:16:29	37.573	117.427	0.3	2.93	2.8	126	BC	1.8	1.6	MONTEZUMA PEAK SW
	4	19:30: 5	37.570	117.446	0.4	0.64	0.7	132	AC	0.6	1.2	MONTEZUMA PEAK SW
	4	19:40:16	37.572	117.422	0.3	2.07	0.9	124	AC	2.2	2.0	MONTEZUMA PEAK SW
	4	19:44:55	37.586	117.425	0.9	6.28	3.7	129	BC	0.6	1.5	MONTEZUMA PEAK SW
	4	19:49: 9	37.574	117.439	0.5	5.25	1.9	153	AC	---	1.6	MONTEZUMA PEAK SW
	4	19:49:32	37.577	117.427	0.9	7.44	2.7	139	BC	---	1.7	MONTEZUMA PEAK SW
	4	19:51:40	37.573	117.427	0.4	0.74	0.3	168	AC	---	1.1	MONTEZUMA PEAK SW
	4	19:57:12	37.584	117.424	0.3	6.35	0.8	128	AC	1.7	1.6	MONTEZUMA PEAK SW
	4	20: 0:47	37.574	117.428	0.7	3.87	7.4	139	CC	---	1.8	MONTEZUMA PEAK SW
	4	20: 1:27	37.573	117.431	0.2	1.84	0.7	137	AC	1.7	1.7	MONTEZUMA PEAK SW
	4	20: 9:33	37.576	117.426	0.2	0.77	0.9	127	AC	2.3	2.6	MONTEZUMA PEAK SW
	4	20:13:45	37.573	117.423	0.3	0.70	0.6	129	AC	0.7	1.5	MONTEZUMA PEAK SW
	4	20:17:28	37.576	117.441	0.6	2.51	1.4	174	AC	0.5	1.3	MONTEZUMA PEAK SW
	4	20:26:38	37.575	117.439	0.2	0.75	0.7	131	AC	0.8	1.5	MONTEZUMA PEAK SW
	4	20:38:35	37.574	117.422	0.4	0.94	0.5	141	AC	2.0	2.3	MONTEZUMA PEAK SW
	4	20:48:51	37.578	117.418	0.2	0.32	0.8	128	AC	1.6	1.6	MONTEZUMA PEAK SW
	4	20:54:33	37.575	117.423	0.5	0.22	1.0	141	AC	0.5	1.1	MONTEZUMA PEAK SW
	4	20:56:22	37.585	117.414	0.4	3.91	3.7	145	BC	0.7	1.4	MONTEZUMA PEAK SW
	4	20:56:01	37.589	117.400	1.2	11.98	2.0	152	BC	1.6	1.7	MONTEZUMA PEAK SW
	4	21: 5:44	37.580	117.413	0.4	0.65	1.4	145	AC	0.5	1.2	MONTEZUMA PEAK SW
	5	19:46:14	37.608	114.057	0.8	1.94	0.8	287	AD	0.0	1.5	CHOKECHERRY MTN
	6	18:30: 5	37.178	116.092	0.8	-0.25	---	105	CD	1.8	---	OAK SPRING
	7	8:42:58	36.998	116.194	0.3	5.72	2.3	82	BC	1.8	1.7	MINE MTN
	7	9:53:25	37.396	114.848	0.7	4.19	4.0	208	BD	0.8	1.2	DELAMAR
	8	3:24:28	37.138	116.286	0.3	1.63	1.0	81	BB	0.4	0.7	AMMONIA TANKS
	8	23:33:47	37.127	117.011	0.3	10.64	0.8	110	AB	1.7	1.3	BONNIE CLAIRE
	9	5:27:32	37.346	117.248	0.2	0.49	0.2	114	AB	2.0	2.0	SCOTTYS JUNCTION SW
	9	8:54:28	36.688	116.316	0.2	2.43	0.3	109	AB	1.2	1.0	STRIPED HILLS
	9	8:59:43	36.687	116.313	0.1	3.54	0.3	110	AB	1.4	1.1	STRIPED HILLS
	9	19: 4:35	36.888	116.120	0.1	2.90	0.4	101	AB	1.7	0.8	CANE SPRING
	9	20:34:21	37.282	114.919	0.5	1.70	1.1	227	AD	0.0	1.3	DELAMAR LAKE
	10	2:15:58	37.563	117.766	0.6	0.48	1.5	200	AD	0.0	1.4	PIPER PEAK
	11	2:37: 2	36.725	116.273	0.3	3.55	0.3	121	AB	0.3	0.8	STRIPED HILLS
	11	10:26:25	37.536	117.565	0.3	0.07	0.4	153	AC	0.6	1.4	LIDA WASH
	11	10:30:50	37.582	114.689	0.3	-0.56	0.1	288	AD	0.0	1.4	CHOKECHERRY MTN
	12	2:47: 9	37.854	116.133	0.2	0.20	0.3	196	AC	0.7	1.6	REVEILLE PEAK
	14	3: 0:18	36.870	115.978	0.1	4.15	0.9	123	AB	1.7	1.0	FRENCHMAN FLAT
	14	5:48:18	37.161	117.358	0.2	8.51	0.7	101	AC	1.9	2.2	UBEHEBE CRATER
	14	5:50:36	37.162	117.362	0.3	7.66	1.1	113	AC	1.7	1.5	UBEHEBE CRATER
	14	16:42:12	37.853	116.134	0.2	1.47	0.8	100	AC	0.7	1.5	REVEILLE PEAK
	14	19: 4:43	36.888	115.973	0.2	2.06	0.7	124	AC	1.0	1.3	FRENCHMAN FLAT
	15	3:58:12	37.853	116.133	0.2	0.73	0.2	100	AC	0.7	1.7	REVEILLE PEAK
	17	5:20:10	37.852	116.134	0.3	3.98	---	105	CC	0.7	1.7	REVEILLE PEAK
	17	15:40:33	37.852	116.130	0.1	0.91	0.2	100	AC	---	1.4	REVEILLE PEAK
	17	18:36:59	36.726	116.190	0.2	1.85	0.6	119	AC	1.3	1.2	SPECTER RANGE NW
	17	20: 8:46	36.736	116.140	0.1	1.87	0.3	125	AC	1.3	1.1	SPECTER RANGE NW
	17	20:30:33	36.733	116.147	0.2	1.91	0.5	123	AC	0.4	0.9	SPECTER RANGE NW
	17	21:41: 3	36.735	116.143	0.1	1.90	0.3	87	AC	1.6	1.2	SPECTER RANGE NW
	17	22:47:41	36.117	116.872	0.2	0.29	0.6	138	AC	0.0	1.8	FUNERAL PEAK

9075900/607

1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
APR 17 22:49:16	36.117	116.669	0.3	7.74	0.5	138	AC	0.5	1.7	FUNERAL PEAK
17 22:52:51	36.121	116.673	0.2	7.38	0.5	137	AC	---	1.2	FUNERAL PEAK
17 22:53: 9	36.123	116.678	0.2	7.69	0.4	135	AC	0.5	1.4	FUNERAL PEAK
17 23: 0:38	36.118	116.672	0.2	7.32	0.4	138	AC	0.5	1.6	FUNERAL PEAK
17 23:15:59	36.738	116.144	0.1	4.13	0.9	109	AC	1.4	1.0	SPECTER RANGE NW
17 23:34: 5	36.737	116.146	0.2	0.94	0.2	128	AC	1.4	0.9	SPECTER RANGE NW
17 23:38:42	36.118	116.667	0.2	7.54	0.4	150	AC	1.8	1.4	FUNERAL PEAK
18 0:20:44	36.118	116.672	0.2	6.81	0.7	138	AC	---	1.0	FUNERAL PEAK
18 0:40:32	36.738	116.148	0.2	1.74	0.8	128	AC	1.2	1.1	SPECTER RANGE NW
18 1:34: 0	36.737	116.148	0.1	4.00	0.7	108	AC	1.7	1.4	SPECTER RANGE NW
18 2:30: 2	36.116	116.670	0.2	7.26	0.3	139	AC	0.4	1.4	FUNERAL PEAK
18 3:59:51	36.733	116.147	0.2	1.47	0.8	124	AC	1.6	1.5	SPECTER RANGE NW
18 5:28:31	36.734	116.147	0.1	0.81	0.2	100	AC	1.5	1.2	SPECTER RANGE NW
18 6:41:56	36.737	116.144	0.1	0.98	0.2	72	AC	1.7	1.6	SPECTER RANGE NW
18 7: 4:59	36.738	116.146	0.2	2.04	0.5	125	AC	1.4	1.2	SPECTER RANGE NW
18 8: 0:39	36.740	116.144	0.2	0.00	0.3	127	AC	1.2	1.0	SPECTER RANGE NW
18 12:33:22	36.678	116.169	0.3	6.22	1.2	111	AC	1.7	1.3	CAMP DESERT ROCK
18 16:29: 0	36.738	116.142	0.1	1.59	0.4	87	AC	1.8	1.6	SPECTER RANGE NW
18 18:22:45	36.736	116.146	0.2	0.05	0.2	128	AC	1.4	1.3	SPECTER RANGE NW
18 20: 3:39	36.740	116.145	0.5	4.05	2.4	182	BC	---	0.9	SPECTER RANGE NW
19 2: 1: 9	36.738	116.144	0.1	1.76	0.4	79	AC	2.0	1.8	SPECTER RANGE NW
19 2:44: 1	36.518	117.808	0.7	0.70	1.1	329	AD	2.1	2.2	NEW YORK BUTTE
19 3:38:38	37.858	116.174	0.3	7.07	0.9	225	AD	2.1	1.7	REVEILLE PEAK
19 7:58:24	36.733	116.145	0.2	2.05	0.5	107	AC	0.3	0.7	SPECTER RANGE NW
19 10:29: 3	36.878	115.986	0.1	0.48	0.2	126	AB	1.5	1.0	PLUTONIUM VALLEY
19 11: 8:51	36.878	115.969	0.2	2.78	0.8	126	AB	1.0	1.0	PLUTONIUM VALLEY
19 14:58:49	37.127	117.007	0.3	7.75	1.5	118	AC	0.6	1.5	BONNIE CLAIRE
20 4:50: 9	36.942	116.451	2.3	2.56	1.8	289	BD	0.3	0.9	TOPOPAH SPRING NW
20 8:20:43	37.276	115.257	0.9	4.07	7.8	126	CC	0.7	2.0	BADGER SPRING
20 8:52:14	37.345	117.237	0.5	0.38	0.3	134	AB	0.7	1.3	SCOTTYS JUNCTION SW
20 9:28:51	36.234	116.823	0.3	9.81	0.8	113	AB	---	1.4	BENNETTS WELL
20 11:19:44	37.263	115.251	0.6	9.70	1.4	128	AB	0.8	1.2	BADGER SPRING
20 16: 9:55	36.869	115.976	0.1	0.89	0.2	78	AB	1.0	1.8	FRENCHMAN FLAT
20 21:54:44	36.734	116.147	0.1	0.92	0.2	124	AC	0.2	0.7	SPECTER RANGE NW
21 0:11:13	36.878	115.981	1.0	3.27	5.5	223	CD	---	1.0	PLUTONIUM VALLEY
21 10:26:53	36.734	116.148	0.1	0.94	0.2	106	AC	0.4	0.9	SPECTER RANGE NW
21 17:14:58	36.843	117.465	0.3	1.82	0.6	182	AD	1.5	1.7	TIN MTN
22 4:10:43	36.985	115.045	0.2	6.28	3.3	169	BC	2.0	2.0	MULE DEER RIDGE NE
23 11: 7:36	37.266	116.440	0.7	2.12	1.6	90	BC	1.7	---	SILENT BUTTE
23 16:57:28	36.727	116.077	0.3	4.71	1.1	149	AC	1.0	1.1	CAMP DESERT ROCK
23 16:59:38	37.926	116.098	0.4	9.00	2.2	124	BC	0.8	1.3	REVEILLE PEAK
25 1:44: 9	37.871	116.123	0.3	10.75	2.3	110	BC	2.1	1.8	REVEILLE PEAK
25 19:24:51	37.058	116.021	0.2	5.05	0.8	157	AC	0.4	0.9	YUCCA FLAT
25 21:50:30	37.342	117.247	0.2	0.48	0.1	160	AC	0.6	1.2	SCOTTYS JUNCTION SW
27 5:24:38	37.218	116.572	0.5	9.42	1.2	117	BD	1.4	1.1	THIRSTY CANYON NE
27 9:10:36	37.216	116.571	0.8	10.03	1.4	128	BD	1.3	1.1	THIRSTY CANYON NE
27 10:18:14	37.208	116.571	0.4	7.55	0.9	113	BD	1.4	1.1	THIRSTY CANYON NE
27 12:48:25	37.203	116.567	0.6	10.02	1.4	121	BD	---	1.2	THIRSTY CANYON NE
27 14:23:33	37.542	117.069	0.3	1.71	1.1	150	AC	0.6	1.2	LIDA WASH
28 5:15:16	37.197	116.572	0.2	9.56	0.7	77	AB	1.8	1.6	THIRSTY CANYON NE
28 8:51: 7	36.945	116.356	0.4	3.87	2.0	65	BC	0.4	0.7	TOPOPAH SPRING
28 13:24:16	37.196	116.576	0.2	9.37	0.6	45	AB	1.8	1.3	THIRSTY CANYON NE
28 15:52:44	37.165	117.928	3.6	0.90	3.2	228	BD	2.1	2.0	WAUCOBA SPRING
29 4:31:46	37.295	116.578	0.5	7.26	1.2	118	AB	0.5	1.2	THIRSTY CANYON NE
MAY 1 3: 5:25	37.282	117.591	0.3	7.01	0.8	82	AB	---	1.5	MAGRUDER MTN
1 3: 5:25	37.282	117.591	0.3	7.01	0.8	82	AB	---	1.5	MAGRUDER MTN
1 5:43: 2	37.196	116.589	0.4	5.05	1.4	109	AB	---	0.9	THIRSTY CANYON NE
1 5:43: 2	37.196	116.589	0.4	5.05	1.4	109	AB	---	0.9	THIRSTY CANYON NE
1 6:45:59	37.085	117.362	0.3	-0.47	0.5	116	AB	---	1.2	UBEHEBE CRATER
1 6:45:50	37.085	117.362	0.3	-0.47	0.5	116	AB	---	1.2	UBEHEBE CRATER
1 11: 0:20	37.195	116.589	0.2	5.04	0.8	108	AB	---	0.8	THIRSTY CANYON NE
1 11: 0:20	37.195	116.586	0.2	5.04	0.8	108	AB	---	0.8	THIRSTY CANYON NE
1 23: 6:39	37.196	116.587	0.3	4.87	1.5	110	AC	---	1.2	THIRSTY CANYON NE
1 23: 6:39	37.196	116.587	0.3	4.87	1.5	110	AC	---	1.2	THIRSTY CANYON NE
2 5:49: 3	36.696	116.064	0.3	10.02	0.7	140	AC	---	0.6	CAMP DESERT ROCK
2 5:49: 3	36.696	116.064	0.3	10.02	0.7	140	AC	---	0.6	CAMP DESERT ROCK

9075900/608

1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)			LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAY	2	5:59:30	37.196	116.590	0.2	5.74	1.8	189	AB	---	1.0	THIRSTY CANYON NE
	2	5:59:30	37.196	116.590	0.2	5.74	1.8	189	AB	---	1.0	THIRSTY CANYON NE
	2	22: 0:41	36.995	117.581	0.5	2.09	2.4	184	BD	---	1.5	DRY MTN
	2	22: 0:41	36.995	117.581	0.5	2.09	2.4	184	BD	---	1.5	DRY MTN
	3	6:54:41	37.293	116.486	0.8	13.59	0.7	213	AD	---	1.5	SILENT BUTTE
	3	6:54:41	37.293	116.486	0.8	13.59	0.7	213	AD	---	1.5	SILENT BUTTE
	6	3: 9:21	36.826	116.388	0.4	0.74	0.3	89	AA	---	0.6	JACKASS FLATS
	6	3: 9:21	36.826	116.388	0.4	0.74	0.3	89	AA	---	0.6	JACKASS FLATS
	6	9:36:32	36.908	117.794	0.8	7.00*	---	217	CD	---	1.5	WAUCOBA WASH
	6	9:36:32	36.908	117.794	0.8	7.00*	---	217	CD	---	1.5	WAUCOBA WASH
	6	20:49:17	37.852	116.132	0.2	0.85	0.4	105	AC	---	1.6	REVEILLE PEAK
	6	20:49:17	37.852	116.132	0.2	0.85	0.4	105	AC	---	1.6	REVEILLE PEAK
	7	6:14:55	37.851	116.136	0.2	0.46	0.3	105	AC	---	1.5	REVEILLE PEAK
	7	6:14:55	37.851	116.136	0.2	0.46	0.3	105	AC	---	1.5	REVEILLE PEAK
	8	1:35:39	36.757	115.979	0.6	4.20	1.4	229	AD	---	0.9	FRENCHMAN FLAT
	8	1:35:39	36.757	115.979	0.6	4.20	1.4	229	AD	---	0.9	FRENCHMAN FLAT
	8	11:50:56	36.686	116.051	0.8	4.75	3.2	138	BC	---	0.5	CAMP DESERT ROCK
	8	11:50:56	36.686	116.051	0.8	4.75	3.2	138	BC	---	0.5	CAMP DESERT ROCK
	8	20:47:36	37.861	116.129	0.6	1.02	2.1	107	BC	---	1.5	REVEILLE PEAK
	8	20:47:36	37.861	116.129	0.6	1.02	2.1	107	BC	---	1.5	REVEILLE PEAK
	9	16:14: 7	37.856	116.133	0.3	4.04	0.8	106	CC	2.1	1.8	REVEILLE PEAK
	9	16:14: 7	37.856	116.133	0.3	4.04	0.8	106	CC	2.1	1.8	REVEILLE PEAK
	9	18:15:45	37.288	116.405	0.2	4.27	1.5	84	AC	1.7	1.0	SILENT BUTTE
	9	18:15:45	37.288	116.405	0.2	4.27	1.5	84	AC	1.7	1.0	SILENT BUTTE
	10	9:30:46	36.837	115.876	0.3	7.69	1.4	150	AC	1.8	1.3	FRENCHMAN FLAT
	10	9:30:46	36.837	115.876	0.3	7.69	1.4	150	AC	1.8	1.3	FRENCHMAN FLAT
	10	13:14:39	37.267	116.436	0.2	2.19	0.5	97	AC	1.8	1.6	SILENT BUTTE
	10	13:14:39	37.267	116.436	0.2	2.19	0.5	97	AC	1.8	1.6	SILENT BUTTE
	11	7:42:11	37.339	115.414	0.3	7.35	2.1	136	BC	1.4	1.6	CUTLER RESERVOIR
	11	7:42:11	37.339	115.414	0.3	7.35	2.1	136	BC	1.4	1.6	CUTLER RESERVOIR
	14	1:36:57	37.249	116.388	0.3	-0.54	-0.3	61	AA	2.4	1.7	AMMONIA TANKS
	14	1:36:57	37.249	116.388	0.3	-0.54	0.3	61	AA	2.4	1.7	AMMONIA TANKS
	14	7:20:38	37.262	115.259	0.3	9.49	0.8	116	AB	---	1.1	BADGER SPRING
	14	7:20:38	37.262	115.259	0.3	9.49	0.8	116	AB	---	1.1	BADGER SPRING
	14	11: 0:34	37.289	116.415	0.1	0.61	0.3	93	AC	---	1.0	SILENT BUTTE
	14	11: 0:34	37.289	116.415	0.1	0.61	0.3	93	AC	---	1.0	SILENT BUTTE
	14	13:24: 5	36.837	117.068	0.8	2.41	2.0	233	BD	2.4	2.4	NEW YORK BUTTE
	14	13:24: 5	36.837	117.068	0.8	2.41	2.0	233	BD	2.4	2.4	NEW YORK BUTTE
	14	14:30:58	37.278	115.254	0.4	4.88	2.5	102	BC	2.1	2.2	BADGER SPRING
	14	14:30:58	37.278	115.254	0.4	4.88	2.5	102	BC	2.1	2.2	BADGER SPRING
	15	16: 0:21	37.893	116.135	0.2	0.98	0.3	105	AC	---	1.6	REVEILLE PEAK
	15	16: 0:21	37.893	116.135	0.2	0.98	0.3	105	AC	---	1.6	REVEILLE PEAK
	16	3:39:31	37.182	117.606	0.6	8.71	0.9	158	AC	---	1.1	LAST CHANCE RANGE
	16	3:39:31	37.182	117.606	0.6	8.71	0.9	158	AC	---	1.1	LAST CHANCE RANGE
	16	5:28:15	37.862	116.127	0.5	4.63	0.9	108	CC	2.0	1.5	REVEILLE PEAK
	16	5:28:15	37.862	116.127	0.5	4.63	0.9	108	CC	2.0	1.6	REVEILLE PEAK
	16	18:36:35	37.163	117.359	0.1	0.47	0.5	112	AC	---	1.3	UBEHEBE CRATER
	16	18:36:35	37.163	117.359	0.1	0.47	0.5	112	AC	---	1.3	UBEHEBE CRATER
	16	21: 0: 6	36.826	115.937	0.4	10.84	0.8	182	AD	---	1.0	FRENCHMAN FLAT
	16	21: 0: 6	36.826	115.937	0.4	10.84	0.8	182	AD	---	1.0	FRENCHMAN FLAT
	16	21: 2:53	36.832	115.934	0.4	9.11	0.9	189	AD	---	1.0	FRENCHMAN FLAT
	16	21: 2:53	36.832	115.934	0.4	9.11	0.9	189	AD	---	1.0	FRENCHMAN FLAT
	17	2: 0:46	37.347	117.219	0.3	0.08	0.3	146	AC	---	1.2	SCOTTYS JUNCTION SW
	17	2: 0:46	37.347	117.219	0.3	0.08	0.3	146	AC	---	1.2	SCOTTYS JUNCTION SW
	17	7:14:12	37.117	115.285	1.2	3.07*	---	243	CD	1.4	1.5	DESERT HILLS SE
	17	7:14:12	37.117	115.285	1.2	3.07*	---	243	CD	1.4	1.5	DESERT HILLS SE
	17	21:14:21	37.852	116.134	0.2	0.88	0.3	105	AC	---	1.3	REVEILLE PEAK
	17	21:14:21	37.852	116.134	0.2	0.88	0.3	105	AC	---	1.3	REVEILLE PEAK
	18	12:26:49	37.853	116.136	0.1	5.94	1.3	105	AC	---	1.4	REVEILLE PEAK
	18	12:26:49	37.853	116.136	0.1	5.94	1.3	105	AC	---	1.4	REVEILLE PEAK
	19	17:33:37	37.854	116.138	0.1	1.61	0.8	106	AC	2.1	1.6	REVEILLE PEAK
	19	17:33:37	37.854	116.138	0.1	1.61	0.8	106	AC	2.1	1.6	REVEILLE PEAK
	20	18:52:31	37.827	116.396	0.7	14.43	1.7	149	AC	---	1.7	QUARTZITE MTN
	20	18:52:31	37.827	116.396	0.7	14.43	1.7	149	AC	---	1.7	QUARTZITE MTN
	21	13:19: 1	36.784	116.145	0.1	0.16	0.3	132	AC	1.2	0.9	SKULL MTN
	21	13:19: 1	36.784	116.145	0.1	0.16	0.3	132	AC	1.2	0.9	SKULL MTN

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9075900/609

1986 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
MAY 21	14:55:24	36.779	117.757	0.8	2.76	3.8	222	BD	1.8	1.7	WAUCOBA WASH
21	14:55:24	36.779	117.757	0.8	2.76	3.0	222	BD	1.8	1.7	WAUCOBA WASH
22	14:49:25	36.763	116.236	0.3	3.38	0.6	117	AB	---	0.4	SKULL MTN
22	14:49:25	36.763	116.236	0.3	3.38	0.6	117	AB	---	0.4	SKULL MTN
22	19:54:31	36.428	117.866	1.8	11.87	8.2	253	CD	---	2.0	KEELER
22	19:54:31	36.428	117.866	1.8	11.87	8.2	253	CD	---	2.0	KEELER
24	0:59:47	37.842	117.571	0.3	5.54	2.0	90	BC	---	1.4	LIDA WASH
24	0:59:47	37.542	117.571	0.3	5.54	2.0	90	BC	---	1.4	LIDA WASH
24	10:33:38	37.217	114.853	1.0	9.58	3.2	247	BD	---	1.0	DELAMAR 3 NE
24	10:33:38	37.217	114.853	1.0	9.58	3.2	247	BD	---	1.0	DELAMAR 3 NE
24	14:43:27	37.854	116.129	0.5	2.79	3.1	150	BD	---	1.3	REVEILLE PEAK
24	14:43:27	37.854	116.129	0.5	2.79	3.1	150	BD	---	1.3	REVEILLE PEAK
25	8: 1:20	37.371	117.202	0.8	3.94	2.2	112	BB	1.5	1.4	GOLD POINT
25	8: 1:20	37.371	117.202	0.8	3.94	2.2	112	BB	1.5	1.4	GOLD POINT
26	18:27:29	37.858	116.132	0.3	4.42	0.1	106	CC	---	1.3	REVEILLE PEAK
26	18:27:29	37.858	116.132	0.3	4.42	0.1	106	CC	---	1.3	REVEILLE PEAK
27	14:38:52	36.882	116.404	0.2	7.17	0.5	133	AB	1.7	0.9	LATHROP WELLS NW
27	14:38:52	36.882	116.404	0.2	7.17	0.5	133	AB	1.7	0.9	LATHROP WELLS NW
27	15:42:48	37.858	116.135	0.1	5.53	1.0	107	AC	2.0	1.8	REVEILLE PEAK
27	15:42:48	37.859	116.136	0.2	6.06	1.5	107	AC	2.0	1.8	REVEILLE PEAK
27	19:42:19	37.282	114.943	0.7	12.29	0.9	247	AD	---	1.8	ELGIN
27	19:42:19	37.282	114.943	0.7	12.29	0.9	247	AD	---	1.8	ELGIN
27	23: 2:45	37.856	116.132	0.1	0.25	0.2	106	AC	1.8	1.8	REVEILLE PEAK
27	23: 2:45	37.856	116.132	0.1	0.25	0.2	106	AC	1.8	1.8	REVEILLE PEAK
28	13:15:16	37.855	116.133	0.3	4.32	0.5	106	CC	1.6	1.8	REVEILLE PEAK
28	13:15:16	37.855	116.133	0.3	4.32	0.5	106	CC	1.6	1.8	REVEILLE PEAK
28	17:27:12	37.853	116.132	0.2	0.83	0.2	106	AC	---	1.5	REVEILLE PEAK
28	17:27:12	37.853	116.132	0.2	0.83	0.2	106	AC	---	1.5	REVEILLE PEAK
28	23: 1:20	37.360	116.134	0.2	0.86	0.6	55	AC	2.0	1.8	QUARTET DOME
28	23: 1:20	37.360	116.134	0.2	0.86	0.6	55	AC	2.0	1.8	QUARTET DOME
28	23: 3:24	36.836	115.823	0.4	10.98	0.8	259	AD	---	0.8	FRENCHMAN LAKE SE
28	23: 3:24	36.836	115.823	0.4	10.98	0.8	259	AD	---	0.8	FRENCHMAN LAKE SE
29	1:35: 5	37.797	115.873	0.4	6.38	2.0	159	BC	1.3	1.5	WORTHINGTON MTNS
29	1:35: 5	37.797	115.873	0.4	6.38	2.0	159	BC	1.3	1.5	WORTHINGTON MTNS
29	3:32:56	37.858	116.133	0.2	0.78	0.3	107	AC	1.8	1.8	REVEILLE PEAK
29	3:32:56	37.858	116.133	0.2	0.78	0.3	107	AC	1.8	1.8	REVEILLE PEAK
29	5:31:12	37.855	116.135	0.1	0.88	0.2	194	AC	1.7	1.5	REVEILLE PEAK
29	5:31:12	37.855	116.135	0.1	0.88	0.2	106	AC	1.7	1.5	REVEILLE PEAK
29	12: 8:52	37.345	117.241	0.4	0.39	0.3	114	AB	---	1.1	SCOTTYS JUNCTION SW
29	12: 8:52	37.345	117.241	0.4	0.39	0.3	114	AB	---	1.1	SCOTTYS JUNCTION SW
30	4: 1:59	37.294	115.205	0.2	4.87	1.1	138	AC	---	1.5	ALAMO
30	4: 1:59	37.294	115.205	0.2	4.87	1.1	138	AC	---	1.5	ALAMO
31	0:26:55	37.165	117.402	0.2	7.19	1.0	199	AC	---	1.4	UBEHEBE CRATER
31	0:26:55	37.165	117.402	0.2	7.19	1.0	199	AC	---	1.4	UBEHEBE CRATER
31	14:45:49	36.714	116.496	0.2	2.82	1.6	156	AC	1.6	1.3	BLACK HILLS NW
31	14:45:49	36.714	116.496	0.2	2.82	1.6	156	AC	1.6	1.3	BLACK HILLS NW
31	15:37: 6	37.161	117.405	0.1	6.25	0.8	111	AC	1.8	2.1	UBEHEBE CRATER
31	15:37: 6	37.161	117.405	0.1	6.25	0.8	111	AC	1.8	2.1	UBEHEBE CRATER
31	19:57:18	36.584	115.782	0.3	1.66	0.5	205	AD	---	1.3	MERCURY SE
31	19:57:18	36.584	115.782	0.3	1.66	0.5	205	AD	---	1.3	MERCURY SE
31	19:51:37	37.857	116.136	0.3	0.51	0.5	107	AC	---	1.4	REVEILLE PEAK
31	19:51:37	37.857	116.136	0.3	0.51	0.5	107	AC	---	1.4	REVEILLE PEAK
JUN 1	9: 3:34	37.863	116.136	0.3	5.24	5.2	108	CC	2.1	2.5	REVEILLE PEAK
1	14:11:42	36.460	115.746	0.2	6.08	1.3	150	AC	---	1.2	CHARLESTON PEAK
1	14:52:14	37.270	115.893	0.5	7.29	0.9	177	AC	---	1.1	ALAMO SE
2	4:38:24	37.854	116.134	0.5	4.17*	---	106	CC	---	1.3	REVEILLE PEAK
2	10:13:16	37.453	115.438	0.2	9.81	0.9	167	AC	---	1.4	CRESCENT RESERVOIR
3	4:33:31	37.858	116.132	0.2	1.92	0.8	107	AC	---	1.3	REVEILLE PEAK
3	9:26: 8	37.348	117.238	0.3	-0.25	0.3	116	AB	---	0.9	SCOTTYS JUNCTION SW
3	10: 6:17	37.812	116.291	0.2	4.69	0.5	84	AB	---	0.7	BUCKBOARD MESA
3	10:30:57	36.873	116.196	0.3	0.48	0.2	119	AB	---	1.0	SKULL MTN
3	21: 2:19	37.244	117.616	0.3	10.82	0.5	90	AB	---	1.5	LAST CHANCE RANGE
4	0:42:42	37.858	116.138	0.3	0.47	0.4	106	AC	---	1.4	REVEILLE PEAK
4	3: 1:58	36.921	117.033	0.3	4.98	2.2	198	BD	1.7	1.7	DRY MTN
4	4:47:58	37.854	116.133	0.3	0.59	0.4	106	AC	---	1.4	REVEILLE PEAK
4	5:34:12	37.348	117.244	0.4	-0.36	0.3	181	AC	---	0.9	SCOTTYS JUNCTION SW

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1986 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUN 4	12:50: 8	37.863	116.131	0.5	0.54	0.8	198	AC	---	1.5	REVEILLE PEAK
4	15: 7:39	37.345	117.230	0.2	1.49	0.6	54	AB	2.7	3.2	SCOTTYS JUNCTION SW
4	15:11:19	37.353	117.234	0.3	-0.76	0.3	117	AB	---	1.3	SCOTTYS JUNCTION SW
4	15:27: 9	37.348	117.227	0.2	0.08	0.2	117	AB	---	1.3	SCOTTYS JUNCTION SW
4	15:54:13	37.352	117.237	0.3	-0.77	0.3	116	AB	---	1.2	SCOTTYS JUNCTION SW
4	16:49:31	37.356	117.243	0.4	-1.10	0.3	116	AB	---	1.1	SCOTTYS JUNCTION SW
4	19:10:51	37.346	117.245	0.2	0.34	0.2	114	AB	1.8	1.7	SCOTTYS JUNCTION SW
4	22: 3:27	37.871	116.141	0.9	2.97	7.2	109	CC	1.6	---	REVEILLE PEAK
5	4: 1:53	37.344	117.224	0.3	0.38	0.1	215	AD	---	1.1	SCOTTYS JUNCTION SW
5	7:37: 8	37.353	117.227	0.2	-0.54	0.2	117	AB	---	1.1	SCOTTYS JUNCTION SW
5	9:55:19	37.336	114.834	0.4	5.02	1.8	224	AD	---	1.2	GREGERSON BASIN
5	14: 5: 6	37.323	115.213	0.6	7.42	2.1	115	BC	---	1.2	ALAMO
5	15: 3:08	37.094	116.009	0.2	-0.50	5.3	88	CC	---	0.2	YUCCA FLAT
5	17:49:25	37.348	117.230	0.4	-0.82	0.3	116	AB	---	1.4	SCOTTYS JUNCTION SW
6	1:27:31	37.332	117.253	1.3	3.07	1.6	111	BB	---	1.3	GOLD POINT
6	16:50:14	37.132	116.582	0.5	11.77	1.0	130	AC	---	1.0	THIRSTY CANYON NE
6	19:48:54	37.857	116.129	0.4	0.35	0.7	107	AC	---	1.0	REVEILLE PEAK
7	1:16:29	37.349	117.244	0.2	-0.49	0.2	115	AB	---	1.0	SCOTTYS JUNCTION SW
7	11:22:20	37.348	117.239	0.2	0.24	0.2	134	AB	---	1.0	SCOTTYS JUNCTION SW
7	18:19:48	37.341	117.237	0.7	0.50	2.8	70	BA	2.1	---	SCOTTYS JUNCTION SW
8	2:44:45	37.871	116.132	0.2	5.72	2.4	109	BC	---	1.4	REVEILLE PEAK
8	8:58:33	37.883	116.138	0.5	7.79	3.9	108	BC	---	1.7	REVEILLE PEAK
9	6:14: 4	37.348	117.236	0.4	-0.98	4.5	61	AB	1.0	---	SCOTTYS JUNCTION SW
10	2:35:27	37.282	116.279	0.6	1.00	1.0	75	BA	---	1.4	AMMONIA TANKS
10	7:16:46	37.341	117.245	0.2	0.47	0.1	50	AA	2.0	2.1	SCOTTYS JUNCTION SW
10	8:39:42	37.882	116.131	0.4	4.80	7.8	107	CC	1.7	2.0	REVEILLE PEAK
10	12:59:44	37.894	116.255	0.2	0.60	0.6	75	AB	1.5	1.2	BUCKBOARD MESA
10	14:56:48	37.352	117.243	0.3	-0.28	0.2	115	AB	---	1.1	SCOTTYS JUNCTION SW
10	22: 8:22	37.350	117.230	0.4	-0.59	0.3	115	AB	1.6	1.4	SCOTTYS JUNCTION SW
11	2:51: 5	37.351	117.235	0.3	-0.05	0.2	63	AB	1.6	1.5	SCOTTYS JUNCTION SW
11	3:15:38	37.854	116.133	0.3	0.06	0.5	106	AC	---	1.2	REVEILLE PEAK
11	8:50:46	37.871	116.129	0.1	0.46	0.1	109	AC	1.8	2.1	REVEILLE PEAK
11	16:56: 2	37.351	117.241	0.4	-0.29	0.3	115	AB	---	1.1	SCOTTYS JUNCTION SW
11	17:23:44	37.352	117.233	0.2	-0.02	0.2	116	AB	---	1.2	SCOTTYS JUNCTION SW
11	18:48:33	37.881	116.130	0.4	4.76	7.6	107	CC	1.9	2.1	REVEILLE PEAK
11	21:56:10	36.735	116.145	0.0	5.02	2.2	125	BB	---	0.9	SPECTER RANGE NW
12	4:18:34	37.348	117.239	0.2	0.12	0.2	115	AB	---	1.0	SCOTTYS JUNCTION SW
12	5:53:24	36.888	116.410	0.3	4.15	1.6	43	BB	1.6	1.3	LATHROP WELLS SW
12	11:34:31	37.857	116.132	0.2	0.15	0.3	108	AC	---	1.5	REVEILLE PEAK
12	13:48:26	37.856	116.132	0.4	0.17	0.6	106	AC	---	1.1	REVEILLE PEAK
13	0:41:51	37.853	116.130	0.5	-0.07	0.8	106	AC	---	1.4	REVEILLE PEAK
13	7:23: 6	37.381	117.045	0.3	-0.94	0.3	119	AB	---	1.4	MAGRUDER MTN
13	8:30:38	37.236	117.453	0.4	11.80	1.0	110	AB	---	1.1	UBEHEBE CRATER
13	14:55:38	37.882	116.129	0.4	0.40	0.7	108	AC	2.0	1.7	REVEILLE PEAK
13	17:18:33	37.854	116.137	0.1	0.74	0.2	105	AC	---	1.6	REVEILLE PEAK
13	18: 5:35	37.883	116.125	0.4	4.12*	---	108	CC	1.6	1.7	REVEILLE PEAK
13	22:52:29	37.860	116.132	0.5	5.02	8.3	107	CC	---	1.5	REVEILLE PEAK
13	23:17:20	37.867	116.129	0.3	-0.03	0.6	109	AC	1.9	2.2	REVEILLE PEAK
14	9:52:21	37.850	116.133	0.1	0.69	0.1	106	AC	1.5	1.8	REVEILLE PEAK
14	20: 6: 7	37.864	116.128	0.4	0.35	0.6	108	AC	1.7	1.9	REVEILLE PEAK
14	22:40:18	37.253	115.002	0.4	-0.29	0.4	198	AD	2.1	2.3	ALAMO SE
14	22:45:25	37.253	115.008	0.5	0.03	0.7	158	AC	1.9	1.9	ALAMO SE
15	0:35:34	36.884	116.183	0.3	0.25	0.1	196	AD	1.4	1.1	MINE MTN
15	2:31:46	37.859	116.133	0.1	0.08	0.2	107	AC	---	1.7	REVEILLE PEAK
15	5:53:46	37.857	116.132	0.4	5.39	5.7	106	CC	---	1.7	REVEILLE PEAK
15	17:55:47	37.858	116.132	0.3	0.21	0.4	107	AC	1.7	1.5	REVEILLE PEAK
15	19:41:49	37.334	117.255	0.3	1.99	0.4	111	AB	---	1.1	GOLD POINT
17	0:26:53	36.456	117.536	0.9	-0.42	0.8	230	BD	2.1	2.3	DARWIN
17	1:43: 8	37.340	117.252	0.2	0.45	0.1	112	AB	---	1.4	GOLD POINT
17	11:20:41	37.860	116.132	0.4	4.77	7.5	107	CC	1.9	1.9	REVEILLE PEAK
17	13:41:22	37.882	116.136	0.3	4.07	7.2	105	CC	---	1.4	REVEILLE PEAK
17	18:33:15	37.867	116.128	0.4	0.09	0.6	109	AC	1.8	2.3	REVEILLE PEAK
17	19:32:34	37.857	116.131	0.3	-0.38	0.4	107	AC	---	1.6	REVEILLE PEAK
18	14:38:32	36.384	117.475	0.7	5.81	5.1	239	CD	2.2	2.1	PANAMINT BUTTE
18	14:39:55	36.384	117.468	0.9	4.34*	---	237	CD	---	1.4	PANAMINT BUTTE
18	18:33:60	37.868	116.128	1.5	0.56	3.0	109	BC	---	1.5	REVEILLE PEAK

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1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUN 18 20:40:16	37.147	117.381	0.4	7.73	1.0	125	AC	---	1.3	UBEHEBE CRATER
18 20:43:34	37.151	117.397	0.2	6.17	0.9	111	AC	2.0	1.7	UBEHEBE CRATER
18 20:49:57	37.147	117.399	0.3	9.53	0.9	123	AB	---	1.3	UBEHEBE CRATER
18 21: 0:00	37.144	117.378	0.6	11.04	1.7	138	AC	---	0.9	UBEHEBE CRATER
18 21: 7:26	37.149	117.398	0.2	6.93	1.1	112	AC	2.4	2.6	UBEHEBE CRATER
18 21: 9:52	37.125	117.382	0.6	7.41	1.7	260	AD	---	1.1	UBEHEBE CRATER
18 21:13:22	37.150	117.391	0.4	8.39	1.0	122	AC	---	1.7	UBEHEBE CRATER
18 21:20:23	37.155	117.381	0.8	11.49	1.5	135	AC	---	1.1	UBEHEBE CRATER
18 22: 2: 5	37.154	117.393	0.4	9.01	1.2	120	AD	---	1.3	UBEHEBE CRATER
18 23: 3:49	37.151	117.394	0.2	7.08	0.8	111	AC	2.0	2.4	UBEHEBE CRATER
18 23: 5:52	37.145	117.388	0.3	9.33	0.6	127	AB	---	1.0	UBEHEBE CRATER
18 23:24:40	37.154	117.390	0.3	7.85	1.0	121	AC	---	1.5	UBEHEBE CRATER
19 0:23:35	37.344	117.248	0.3	0.14	0.2	113	AB	1.7	1.4	SCOTTYS JUNCTION SW
20 19:10:31	37.842	116.155	0.5	1.42	1.0	261	AD	---	1.0	REVEILLE PEAK
20 23:20:55	37.353	117.237	0.3	-0.44	0.3	94	AB	---	1.0	SCOTTYS JUNCTION SW
21 3:11:30	36.187	115.910	0.8	4.76	5.5	284	CD	---	1.5	PAHRUMP
21 11: 5:58	36.968	117.929	0.5	7.84	5.1	230	CD	1.7	2.1	WAUCOBA WASH
21 14:27:55	36.739	115.511	0.3	5.28	9.1	159	CC	1.9	1.8	HEAVENS WELL
21 15:55:54	37.348	117.236	0.2	0.38	0.2	54	AB	2.0	2.2	SCOTTYS JUNCTION SW
22 3:11:50	37.853	116.135	0.1	1.73	0.5	106	AC	---	1.3	REVEILLE PEAK
22 8:33:45	37.151	117.391	0.4	10.99	1.0	127	AB	---	1.2	UBEHEBE CRATER
22 15:40:24	36.689	115.780	2.3	11.88	1.8	164	CC	---	1.3	MERCURY SE
23 15:31:52	37.348	117.282	0.4	5.18	0.5	127	AB	---	1.1	GOLD POINT
23 15:36:44	37.347	117.285	0.2	5.15	0.6	92	AB	1.8	1.6	GOLD POINT
23 15:37:25	37.354	117.287	0.8	4.54	1.2	160	AC	---	1.8	GOLD POINT
23 15:41:22	37.366	117.275	1.0	4.02	2.0	166	BC	---	1.0	GOLD POINT
24 1:36: 4	36.858	116.004	0.4	4.85	1.3	84	AB	1.6	1.3	CANE SPRING
24 2: 8:10	36.850	116.007	0.1	0.41	0.3	136	AC	---	1.0	CANE SPRING
24 2:41: 7	36.725	116.458	0.4	8.16	0.6	255	AD	---	0.2	LATHROP WELLS NW
24 13:20:53	37.151	117.391	0.2	5.69	1.0	127	AC	---	1.1	UBEHEBE CRATER
25 14:11: 3	37.866	116.131	0.5	1.33	1.5	108	AC	---	1.4	REVEILLE PEAK
25 14:16: 6	37.099	116.237	0.2	4.18	1.9	107	AC	---	0.9	TIPPIPAH SPRING
25 15:43:52	37.363	114.956	0.8	3.89	2.8	108	BD	1.6	1.5	DELAMAR LAKE
25 21:25:22	37.238	114.848	0.7	4.34	9.4	243	CD	---	0.2	DELAMAR 3 NE
25 22:37:46	37.853	116.134	0.3	1.00	0.8	106	AC	---	1.3	REVEILLE PEAK
26 15:52:48	37.294	116.414	0.4	4.15	1.9	103	BC	---	1.1	SILENT BUTTE
27 3: 8:45	36.781	115.805	0.4	5.49	1.4	153	AC	---	1.0	FRENCHMAN FLAT
27 11:30:39	37.852	116.134	0.1	0.68	0.2	105	AC	---	1.3	REVEILLE PEAK
27 18:20:54	37.871	116.127	0.3	-0.57	0.5	109	AC	2.0	2.2	REVEILLE PEAK
27 19:12:41	37.298	116.283	0.3	0.51	1.1	147	AC	---	0.9	DEAD HORSE FLAT
27 20:28:30	36.761	115.532	0.4	5.71*	---	152	CC	---	1.5	TIM SPRING
27 20:45:32	37.735	115.249	0.3	5.59	3.4	90	BC	---	1.3	FOSSIL PEAK
28 0:22:42	36.198	116.842	0.9	18.41	1.8	125	AB	---	1.1	BENNETTS WELL
28 13:48:38	37.351	117.238	0.3	-0.85	0.3	116	AB	---	1.2	SCOTTYS JUNCTION SW
28 14:45:59	36.755	115.535	0.4	8.42	2.8	151	BC	---	1.5	TIM SPRING
28 14:52:54	36.757	115.533	0.2	4.98	3.9	152	BC	---	1.6	TIM SPRING
29 7: 9: 3	37.862	116.129	0.5	0.49	0.8	108	BC	2.1	1.9	REVEILLE PEAK
29 7: 9: 3	37.878	116.118	0.7	-1.63	0.7	173	BC	1.4	---	REVEILLE PEAK
29 16:50:49	37.86.	116.132	0.4	0.57	0.6	107	AC	---	1.5	REVEILLE PEAK
29 23:57:51	37.103	116.263	0.2	5.39	0.6	93	AB	1.2	1.1	BUCKBOARD MESA
30 5:16:51	37.097	116.256	0.3	5.46	1.0	98	AB	---	1.0	BUCKBOARD MESA
30 13:56:39	37.343	117.238	0.2	0.26	0.2	78	AB	2.0	1.7	SCOTTYS JUNCTION SW
30 14: 4:58	37.864	116.132	0.4	-0.35	0.6	106	AC	---	1.2	REVEILLE PEAK
30 16: 2:36	37.861	116.132	0.1	-0.86	0.3	107	AC	1.8	1.8	REVEILLE PEAK
30 19: 2:40	37.855	116.135	0.2	5.01	3.5	106	BC	2.2	1.8	REVEILLE PEAK
30 20: 3:20	37.327	115.203	0.2	-0.11	0.4	118	AC	2.3	2.5	ALAMO
30 20:30:38	37.240	114.859	1.3	8.58	4.7	240	BD	---	1.4	DELAMAR 3 NE
30 23:48:21	37.888	116.129	0.3	0.29	0.5	109	AC	2.0	2.1	REVEILLE PEAK
JUL 1 2:38:49	37.587	116.241	0.2	4.85	1.5	78	AC	1.3	1.3	BELTED PEAK
1 10: 3: 5	37.773	115.872	0.2	5.51	0.8	121	AC	1.8	1.3	WHITE RIVER NARROWS
1 14:28:44	37.884	116.179	0.4	0.01	0.6	108	AC	2.0	2.0	REVEILLE PEAK
1 16:49:49	36.780	116.230	0.6	12.48	0.7	176	AC	---	0.8	SKULL MTN
1 18:38: 2	37.382	117.243	0.4	-0.64	0.3	115	AB	---	1.3	SCOTTYS JUNCTION SW
2 0:47:41	37.178	117.394	0.2	0.74	0.2	104	AC	2.0	1.6	UBEHEBE CRATER
2 2:17: 5	37.861	116.128	0.5	0.42	0.6	108	AC	---	1.4	REVEILLE PEAK
2 2:52:56	37.182	117.404	0.3	7.07	1.1	121	AC	---	1.3	UBEHEBE CRATER

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1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	DUAL	Md	Mblg	QUADRANGLE
JUL 2 6:39:41	37.177	117.409	0.2	5.41	1.2	118	AC	---	1.4	UBEHEBE CRATER
2 8: 3: 4	36.596	116.389	0.1	7.74	0.4	160	AC	---	1.1	LATHROP WELLS SW
2 8:10:22	36.599	116.497	0.2	9.03	1.0	39	AB	2.5	3.0	LATHROP WELLS SW
2 9:25:40	36.598	116.487	0.2	4.56	1.5	71	AB	1.6	1.0	LATHROP WELLS SW
2 15:35:20	36.755	115.527	0.4	1.26	1.7	153	AC	2.0	2.0	TIM SPRING
2 15:36: 1	36.747	115.526	0.2	0.39	0.4	154	AC	2.0	1.5	HEAVENS WELL
2 15:37:44	36.765	115.533	0.4	3.08*	---	151	CC	2.0	1.9	TIM SPRING
2 15:49:54	36.744	115.541	0.6	4.96	4.3	263	BD	---	1.1	HEAVENS WELL
2 16:55:31	36.762	115.536	0.3	2.86	1.0	151	AC	---	1.5	TIM SPRING
2 16:57: 1	36.712	115.580	0.7	2.95	2.7	254	BD	---	1.0	HEAVENS WELL
2 16:58:10	36.756	115.532	0.3	0.82	0.5	152	AC	---	1.3	TIM SPRING
3 4: 5:38	37.351	117.233	0.3	-0.84	0.2	116	AB	---	1.2	SCOTTYS JUNCTION SW
3 6:11:27	37.349	117.238	0.3	-0.34	0.2	71	AB	1.8	1.5	SCOTTYS JUNCTION SW
3 9:41:39	36.661	116.274	0.4	2.15	0.5	234	AD	---	0.6	LATHROP WELLS SE
3 9:44:58	36.758	115.531	0.8	2.42	3.7	153	BC	---	1.0	TIM SPRING
3 23:11:57	36.747	115.549	0.6	0.62	0.5	202	AD	---	1.4	HEAVENS WELL
3 23:14:32	36.762	115.541	0.3	0.35	0.6	95	BC	1.9	1.9	TIM SPRING
4 3:59:12	37.354	117.242	0.3	-0.85	0.2	116	AB	---	1.1	SCOTTYS JUNCTION SW
4 13:31: 7	35.787	116.566	0.7	4.71*	---	261	CD	---	2.4	CONFIDENCE HILLS
4 13:42:23	37.881	116.130	0.3	0.87	0.4	108	AC	---	1.0	TIPPIPAH SPRING
4 18: 9: 9	36.891	116.112	0.4	4.37	1.1	79	BB	1.9	1.6	YUCCA LAKE
4 18:27:18	36.343	116.869	0.3	9.82	1.1	92	AB	1.8	1.7	FURNACE CREEK
4 19:22:27	37.024	116.334	0.6	4.71	0.5	274	AD	---	0.4	BUCKBOARD MESA
5 10: 0:48	36.735	115.510	0.8	1.82	4.8	198	BC	1.1	---	HEAVENS WELL
5 14: 4:16	37.339	117.243	0.3	2.59**	0.5	83	AA	2.6	2.5	SCOTTYS JUNCTION SW
5 18:30:00	37.109	117.227	0.5	1.38	2.4	88	CC	1.4	---	BONNIE CLAIRE SW
5 19:40:28	37.384	114.677	1.7	7.02	1.0	243	BD	1.4	---	SLIDY MTN
7 1: 5: 1	36.798	115.539	2.4	2.92*	---	194	CD	1.3	---	TIM SPRING
7 8:47:10	37.876	116.132	0.9	-0.60	2.2	110	CC	1.5	---	REVEILLE PEAK
7 9: 5: 1	36.725	115.551	0.8	2.76	0.9	113	CC	1.6	---	HEAVENS WELL
7 9:27:53	36.735	115.557	1.1	0.63	0.7	111	CC	1.4	---	HEAVENS WELL
8 3: 2:49	36.645	117.195	0.3	11.87	0.5	112	AB	2.4	2.6	STOVEPIPE WELLS
8 6:48:16	36.883	116.113	0.3	3.81	0.9	108	AB	1.4	0.9	YUCCA LAKE
8 7:38:28	36.762	115.544	0.2	7.09	2.1	149	BC	---	1.1	TIM SPRING
8 12:31:47	37.357	115.000	0.3	4.78	0.8	178	AC	1.4	1.5	ALAMO SE
8 13:14: 6	37.360	115.001	0.3	5.16	0.6	177	AC	1.4	1.3	ALAMO SE
8 14:10: 1	37.353	114.990	0.5	4.91	1.0	152	AD	1.8	2.1	DELAMAR LAKE
8 23:20:20	36.600	116.395	0.3	5.78	0.7	152	AC	---	1.0	LATHROP WELLS SW
9 1:45:32	37.355	114.988	0.8	4.17	2.1	189	BD	---	1.1	DELAMAR LAKE
9 10:50: 4	37.305	115.765	0.3	2.04	0.5	109	AB	1.8	1.8	GROOM MINE SE
9 10:51:55	37.305	115.767	0.2	0.79	0.2	77	AC	1.7	1.4	GROOM MINE SE
9 12:47:19	37.230	116.309	0.2	-1.09	0.2	61	AA	1.8	1.7	DEAD HORSE FLAT
9 17: 0:20	36.559	115.760	0.4	0.60	0.5	163	AC	1.7	1.7	MERCURY SE
9 19:21: 2	37.343	117.238	0.2	-0.01	0.2	53	AB	1.8	1.9	SCOTTYS JUNCTION SW
9 21:24:49	36.775	115.579	0.8	7.32	5.1	144	CC	---	1.1	TIM SPRING
10 9:17:36	36.114	117.771	5.9	-0.40	4.3	290	DD	1.5	---	HAIWEE RESERVOIR
10 17: 2:45	37.863	116.129	0.3	5.52	5.0	100	CC	1.6	2.0	REVEILLE PEAK
11 8:10:27	37.899	116.028	0.9	-0.19	1.8	147	AC	---	1.4	YUCCA FLAT
11 12:41:37	37.854	116.134	0.1	2.10	0.8	106	AC	---	1.4	REVEILLE PEAK
12 2:49:29	36.746	115.823	0.4	1.83	3.0	154	BC	1.8	1.9	HEAVENS WELL
12 7:35:19	37.142	116.289	0.2	7.46	0.4	68	AB	1.4	1.2	AMMONIA TANKS
12 7:40:56	37.142	116.290	0.2	7.20	0.4	62	AB	1.4	1.2	AMMONIA TANKS
12 12: 7: 2	37.347	117.234	0.2	0.50	0.2	71	AB	1.8	1.9	SCOTTYS JUNCTION SW
12 15:11:20	37.887	116.134	0.2	0.64	0.4	106	AC	---	1.2	REVEILLE PEAK
13 17:30:29	36.778	115.980	0.6	4.40	2.0	236	AD	---	1.1	FRENCHMAN FLAT
14 7:34:21	36.748	115.528	1.0	0.96	0.8	255	BD	1.9	1.5	HEAVENS WELL
14 15:19: 1	37.122	117.360	0.4	6.72	1.8	123	BC	---	1.2	UBEHEBE CRATER
15 0:30:22	37.208	117.483	0.3	8.10	1.1	123	AC	---	1.2	UBEHEBE CRATER
15 5:50:41	37.854	116.137	0.2	1.45	0.8	106	AC	---	1.3	REVEILLE PEAK
15 9:39:24	37.873	116.128	0.2	0.03	0.8	110	AC	---	1.5	REVEILLE PEAK
16 23:53: 6	37.287	114.775	0.7	12.71	1.8	212	AD	---	1.5	DELAMAR 3 NE
17 17:56:20	37.307	117.333	0.3	6.39	0.8	131	AB	---	1.2	GOLD POINT
18 3:32:23	37.887	116.190	0.1	3.96	1.2	95	AB	1.8	1.6	TIPPIPAH SPRING
18 11:29:23	37.285	116.348	0.5	-1.03*	---	87	CB	1.5	---	DEAD HORSE FLAT
18 19:12:48	36.547	117.025	1.0	3.15*	---	223	CD	---	1.2	STOVEPIPE WELLS
18 23:32:32	37.348	117.234	0.2	-0.07	0.2	84	AB	1.8	1.7	SCOTTYS JUNCTION SW

9075900613

1988 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
JUL 19 1:11:13	37.152	117.391	0.2	5.95	1.5	127	AC	---	0.8	UBEHEBE CRATER
19 3:36: 6	37.256	115.235	0.4	10.59	0.9	109	AB	---	1.6	ALAMO
19 11:59:30	36.596	116.413	0.2	3.95	2.2	84	BB	1.7	1.6	LATHROP WELLS SW
20 7: 7:18	36.599	116.399	0.3	5.72	0.8	141	AC	---	0.7	LATHROP WELLS SW
20 7:43:14	36.888	115.955	0.8	6.83	3.6	164	BC	---	0.8	FRENCHMAN FLAT
20 12:42:28	36.587	116.406	0.2	5.42	1.0	83	AB	1.2	0.9	LATHROP WELLS SW
22 23:26:58	36.859	116.379	0.4	4.72	0.6	107	AB	1.4	1.0	LATHROP WELLS NW
22 23:38:15	37.588	118.569	15.4	4.16	0.3	295	DD	2.6	---	***REGIONAL***
23 1:56: 4	37.577	118.371	10.3	1.73	0.2	298	DD	2.5	---	***REGIONAL***
23 10:36:46	37.282	116.335	0.2	-1.11	0.3	122	AB	2.2	1.6	DEAD HORSE FLAT
24 0:10: 8	37.483	118.387	2.9	1.34	2.2	285	CD	3.6	---	***REGIONAL***
24 10:32:36	36.361	116.674	0.5	5.41	3.1	233	BD	---	2.4	GEORGES CANYON RIM
24 19:43:14	36.768	116.051	0.3	8.30	0.5	158	AC	---	1.0	CANE SPRING
25 1:22:53	37.878	116.138	0.3	7.72	1.4	118	AC	2.3	1.9	REVEILLE PEAK
25 6:10:30	37.558	118.549	7.7	7.83	3.1	300	DD	2.6	---	***REGIONAL***
25 10:11: 4	37.601	118.522	9.5	3.59	4.9	307	DD	2.9	---	***REGIONAL***
26 1:14:39	37.365	115.575	0.4	-1.14	0.6	121	BC	2.1	2.1	GROOM RANGE SE
26 14:39:39	37.549	118.675	0.1	4.26	2.7	303	DD	3.0	---	***REGIONAL***
26 18:28:18	36.692	116.259	0.3	0.21	0.2	119	AB	1.3	0.9	STRIPED HILLS
28 2: 8:18	36.388	115.213	0.8	3.29*	---	302	CD	---	1.7	GASS PEAK NW
28 11:22:32	37.857	116.128	0.3	0.27	0.5	107	AC	2.1	1.6	REVEILLE PEAK
28 12:51:25	37.343	117.251	0.3	0.23	0.7	163	AC	---	0.9	GOLD POINT
29 3: 8:58	37.135	116.287	0.2	5.61	0.4	113	AB	1.5	1.5	AMMONIA TANKS
29 9: 8: 3	37.857	116.133	0.5	4.66	6.2	166	CC	---	1.5	REVEILLE PEAK
30 0:12:59	37.868	116.991	0.4	15.12	1.4	184	AD	---	1.2	SPRINGDALE
30 0:13: 1	37.255	116.297	0.7	14.97	2.4	187	BD	---	0.8	DEAD HORSE FLAT
30 10:45:10	37.873	116.978	0.2	8.78	0.7	96	AB	1.5	1.0	SPRINGDALE
30 19:25:43	36.547	116.025	0.1	13.66	0.3	73	AB	1.8	2.1	SPECTER RANGE SE
31 23:42:38	37.857	116.127	0.3	0.38	0.4	107	AC	---	1.6	REVEILLE PEAK
AUG 1 0:29:58	37.854	116.131	0.3	3.85*	---	166	CC	0.6	1.3	REVEILLE PEAK
1 0: 1:36	37.867	116.128	0.2	1.33	6.0	168	AC	1.7	2.2	REVEILLE PEAK
1 15:29:12	37.859	116.131	0.3	5.25	5.4	187	CC	1.9	2.0	REVEILLE PEAK
2 19:27:51	37.171	117.417	0.3	6.58	1.1	121	AC	1.7	1.7	UBEHEBE CRATER
3 2:37: 6	36.756	115.538	0.2	8.84	2.2	95	BC	2.2	2.2	TIM SPRING
3 2:43:57	36.738	115.543	0.5	9.10	2.5	199	BD	1.7	1.3	HEAVENS WELL
3 3: 3:56	37.499	116.554	0.4	0.28	3.3	118	BC	0.5	1.1	BLACK MTN NE
3 4: 4:17	37.217	115.029	3.0	15.91	3.3	216	CD	---	1.4	LOWER PAHRANAGAT LAKE
3 23:57:34	37.347	117.242	0.4	-0.32	0.3	115	AB	1.5	1.4	SCOTTYS JUNCTION SW
4 13:57:59	36.327	116.865	0.2	5.88	1.5	97	AC	2.0	2.1	FURNACE CREEK
4 19:33:45	36.367	115.827	0.1	5.97	1.2	124	AC	0.5	1.4	MT STIRLING
4 20:18:12	36.764	116.271	0.3	6.58	0.6	71	AA	0.4	0.5	STRIPED HILLS
5 6:58:27	36.755	115.536	0.3	0.91	0.5	95	AC	1.8	1.6	TIM SPRING
5 12:59: 6	37.178	117.390	0.2	4.39	2.3	117	BC	0.5	1.0	UBEHEBE CRATER
5 23:58:56	37.866	116.127	0.5	2.15	3.6	198	BC	1.9	1.6	REVEILLE PEAK
6 1:46:29	36.761	116.361	0.2	5.65	0.3	81	AA	1.1	0.5	STRIPED HILLS
6 2:23:28	37.367	115.181	0.9	9.18	0.7	174	AC	0.4	1.1	ALAMO SE
6 6:54:59	37.861	116.133	0.3	0.63	0.5	187	AC	1.6	1.5	REVEILLE PEAK
6 7: 0:29	37.337	117.254	0.4	0.49	0.3	111	BB	1.8	1.6	GOLD POINT
7 0:14:39	37.345	117.241	0.3	-0.21	0.2	53	AB	2.0	2.2	SCOTTYS JUNCTION SW
7 12:16:55	36.448	116.532	0.2	-0.89	0.2	67	AB	1.6	1.5	RYAN
7 22:11: 2	37.866	116.132	0.8	14.67	2.3	116	BC	---	1.4	REVEILLE PEAK
7 22:40:53	37.316	116.288	1.3	20.36	2.8	235	BD	1.8	1.4	DEAD HORSE FLAT
8 10:17: 2	36.712	116.122	0.2	0.50	0.4	103	AC	1.0	0.6	CAMP DESERT ROCK
8 18: 0:27	36.723	116.122	0.3	0.78	1.3	138	AC	0.3	0.5	CAMP DESERT ROCK
9 2:38:40	37.347	117.242	0.3	-1.11	0.3	114	AB	1.5	1.3	SCOTTYS JUNCTION SW
9 5:47:32	37.863	116.169	0.6	-0.91	1.0	105	BC	2.1	1.8	REVEILLE PEAK
9 6:42:49	37.858	116.175	0.4	4.66	0.5	104	CC	1.7	1.8	REVEILLE PEAK
9 7:46:24	37.852	116.176	0.7	-0.84*	---	103	CC	1.9	1.4	REVEILLE PEAK
9 8:48: 1	36.588	116.237	0.3	14.87	1.9	82	AB	1.5	1.2	SPECTER RANGE SW
9 9:45:20	36.782	116.298	0.2	5.34	0.3	56	AA	1.5	1.1	STRIPED HILLS
9 9:47:10	36.589	116.241	0.2	-0.37	0.5	81	AC	0.4	0.8	SPECTER RANGE SW
9 11:55:10	37.874	116.131	0.3	1.35	1.2	110	AC	1.5	1.5	REVEILLE PEAK
9 22:39:31	37.860	116.131	0.2	-0.16	0.4	115	AC	1.6	1.6	REVEILLE PEAK
10 0:55:18	37.282	116.333	0.2	-0.93	0.3	58	AB	---	3.0	DEAD HORSE FLAT
10 3:28: 9	36.715	116.196	1.0	7.76	1.0	283	AD	0.3	0.4	SPECTER RANGE NW
10 10:26:46	36.749	115.570	0.5	5.31	4.9	181	BD	1.7	1.5	HEAVENS WELL

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1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
AUG 10 10:38: 0	36.744	115.525	0.3	9.02	2.2	154	BC	1.8	1.7	HEAVENS WELL
10 13:35:46	36.756	115.531	0.2	2.65	2.1	155	BC	0.4	1.1	TIM SPRING
10 17:53:56	37.349	117.237	0.4	-0.28	0.3	115	AB	1.7	1.7	SCOTTYS JUNCTION SW
10 21:20:34	36.591	116.246	0.5	8.70	2.5	83	BB	1.5	1.3	SPECTER RANGE SW
12 7:29: 4	37.865	116.129	0.5	-0.26	1.0	108	AC	1.8	1.8	REVEILLE PEAK
13 0:40:21	37.351	117.234	0.3	-0.45	0.2	145	AC	---	1.2	SCOTTYS JUNCTION SW
13 6:14: 9	36.637	115.984	0.3	11.83	0.5	71	AA	0.5	1.3	MERCURY
14 1:23: 3	36.640	115.984	0.2	11.59	0.6	130	AB	0.6	1.4	MERCURY
14 1:41: 2	37.279	117.293	1.3	2.25	1.0	209	BD	---	1.1	GOLD POINT
14 8:16:26	36.405	115.244	0.6	13.74	0.5	214	AD	0.6	1.7	GASS PEAK NW
14 18:27:11	37.819	114.898	30.0	2.15*	---	291	DD	0.6	1.8	DELAMAR 3 SW
14 18:30:43	36.856	116.189	4.7	7.00**	3.6	221	DD	---	0.3	SKULL MTN
14 21:20:42	36.384	115.239	0.8	14.81	0.7	221	AD	0.8	1.9	GASS PEAK NW
14 21:55: 6	36.406	115.244	0.7	13.27	0.7	213	AD	0.5	1.5	GASS PEAK NW
15 0:31:52	37.352	117.232	0.2	-0.03	0.2	145	AC	---	1.0	SCOTTYS JUNCTION SW
16 1:55:44	36.785	115.988	0.2	0.96	0.2	154	AC	0.3	0.9	FRENCHMAN FLAT
16 1:58:59	36.786	115.949	0.5	5.20	1.4	216	AD	0.3	0.9	FRENCHMAN FLAT
16 13:48:28	36.908	116.086	0.2	3.75	0.6	145	AC	0.2	1.0	YUCCA LAKE
16 16: 7: 3	37.350	117.240	0.4	-0.84	0.3	115	AB	---	1.0	SCOTTYS JUNCTION SW
17 8:47:12	37.346	117.238	0.3	-0.28	0.2	144	AC	0.6	1.6	SCOTTYS JUNCTION SW
17 9:51: 2	36.452	117.023	0.4	11.22	0.5	168	AC	---	1.1	EMIGRANT CANYON
18 17:18:21	37.278	117.527	0.4	10.25	[illegible]	99	AB	0.4	1.2	MAGRUDER MTN
18 17:11:28	37.278	117.536	0.3	12.75	0.5	98	AB	0.3	1.1	MAGRUDER MTN
18 17:17:34	37.282	117.529	0.2	10.15	[illegible]	92	AB	0.5	1.4	MAGRUDER MTN
18 17:20:38	37.283	117.526	0.3	9.62	0.8	103	AB	0.5	1.4	MAGRUDER MTN
18 17:21:55	37.279	117.527	0.4	10.88	0.8	93	AB	0.4	0.9	MAGRUDER MTN
18 17:25:38	37.278	117.536	0.3	13.16	0.5	132	AB	0.2	1.1	MAGRUDER MTN
19 3:14:53	36.731	116.159	0.3	0.13	0.5	117	AC	0.2	0.5	SPECTER RANGE NW
19 10:33:16	37.284	116.335	0.8	0.24*	---	113	CB	0.9	---	DEAD HORSE FLAT
20 2:37:57	37.233	117.527	0.8	9.43	2.2	198	BD	---	0.9	LAST CHANCE RANGE
20 6:27:24	37.286	116.341	0.3	-1.12	0.2	108	AD	---	1.7	DEAD HORSE FLAT
21 6:31:43	37.345	117.240	0.4	-0.04	0.3	114	AB	1.6	1.6	SCOTTYS JUNCTION SW
21 20:34:19	36.918	116.382	0.4	7.78	0.6	184	AD	---	0.1	TOPOPAH SPRING NW
22 2: 5:31	36.203	115.419	0.6	12.22	1.0	227	AD	1.9	2.0	LA MADRE MTN
22 3:23:33	37.217	117.123	1.9	12.79	6.0	163	CD	0.7	1.2	BONNIE CLAIRE
22 3:25:41	37.874	116.120	0.5	-0.24	0.8	110	AC	1.0	1.8	REVEILLE PEAK
22 4:47:45	37.346	117.242	0.4	-0.32	0.4	114	AB	2.1	2.0	SCOTTYS JUNCTION SW
22 10:54: 2	37.079	115.842	0.2	2.95	0.6	113	AB	1.2	0.9	HIKO NE
22 14:44:18	36.637	116.336	0.4	3.42	0.8	41	BA	2.3	2.7	STRIPED HILLS
23 13:54:51	37.860	116.127	0.6	5.68	0.5	187	CC	0.7	1.4	REVEILLE PEAK
23 22:16: 7	37.259	116.219	1.0	5.46	4.2	184	BD	2.1	1.8	QUARTET DOME
23 23:31:22	37.351	117.224	0.3	-0.59	0.3	146	AC	2.0	1.7	SCOTTYS JUNCTION SW
24 0:51:24	37.468	117.594	0.4	3.95	2.3	73	BB	---	1.3	MAGRUDER MTN
24 8:23:45	36.580	117.086	0.6	0.95	1.0	117	BC	1.5	1.1	STOVEPIPE WELLS
24 8:34:15	37.348	117.245	0.8	13.68	3.2	133	BB	2.0	1.9	SCOTTYS JUNCTION SW
24 12:36: 3	36.591	117.084	0.4	1.07	1.6	113	BC	1.6	1.0	STOVEPIPE WELLS
24 16:25:58	37.866	116.125	0.4	0.27	0.7	189	AC	0.8	1.9	REVEILLE PEAK
24 23: 2:33	37.863	116.125	0.5	0.77	0.7	188	AC	1.6	1.9	REVEILLE PEAK
24 23: 3:43	37.86[illegible]	116.124	0.5	0.86	0.8	189	AC	0.7	1.4	REVEILLE PEAK
25 10:43:45	37.347	117.237	0.4	-0.38	0.3	134	AB	1.4	1.8	SCOTTYS JUNCTION SW
25 11:23:42	36.851	116.720	0.1	0.32	-0.2	167	AC	0.1	0.3	BARE MTN
28 17:20:14	37.869	116.124	0.4	5.74	3.7	189	BC	1.9	1.5	REVEILLE PEAK
28 1:54:19	36.728	116.091	1.4	19.08	2.0	148	BC	0.3	0.7	CAMP DESERT ROCK
28 14:56:23	37.341	117.251	0.3	0.31	0.2	78	AA	0.8	1.1	GOLD POINT
28 16:59:53	36.633	116.268	0.2	4.90	1.0	78	AB	1.2	0.8	STRIPED HILLS
29 9:58:47	37.864	116.127	0.5	-0.54	0.5	188	AC	---	1.5	REVEILLE PEAK
29 10:54:25	37.873	116.121	0.7	-0.47	1.0	110	BC	0.7	2.0	REVEILLE PEAK
29 15: 8:46	36.654	116.273	0.2	0.78	0.4	113	AB	1.3	1.1	STRIPED HILLS
30 1:43:54	37.871	116.130	0.5	-0.48	0.9	188	BC	0.7	1.7	REVEILLE PEAK
30 23: 5:45	36.751	115.928	-0.2	5.23	0.7	66	AB	1.7	1.3	FRENCHMAN FLAT
31 6:52:39	36.944	117.707	0.5	7.00**	2.9	214	BD	0.6	1.7	WAUCOBA WASH
SEP 1 0:51:49	37.347	117.243	0.4	-0.30	0.5	71	AB	1.3	1.2	SCOTTYS JUNCTION SW
1 1:31:44	37.582	116.310	0.3	2.18	1.0	97	AC	---	0.9	MT IRISH
1 2:18: 7	37.862	116.130	0.8	4.91*	---	188	CC	---	1.4	REVEILLE PEAK
1 12:36:10	37.076	116.130	0.2	3.80	1.6	122	AB	---	1.0	TIPPIPAH SPRING
2 3:58:24	37.345	117.246	0.4	-0.12	0.4	70	AB	1.4	1.3	SCOTTYS JUNCTION SW

9175900/615

1986 LOCAL HYPOCENTER SUMMARY

DATE (UCT)	TIME	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
SEP 2	9:57:22	37.861	116.128	0.5	0.85	0.8	187	AC	---	1.9	REVEILLE PEAK
2	14: 8: 6	36.891	116.313	0.2	4.01	0.4	121	AB	---	0.1	STRIPED HILLS
2	23:36:22	37.858	116.132	0.4	0.15	0.5	187	AC	---	1.1	REVEILLE PEAK
3	0:46:53	37.332	117.255	0.2	2.04	0.3	67	AA	1.3	1.2	GOLD POINT
3	7:27:35	37.539	117.573	0.3	-0.11	2.2	89	BC	2.2	2.3	LIDA WASH
3	23:31:26	36.884	115.726	0.2	7.37	1.7	122	AC	1.6	1.0	INDIAN SPRINGS
3	23:56:59	37.347	117.244	0.4	-0.29	0.4	71	AB	1.7	1.9	SCOTTYS JUNCTION SW
4	11:00: 1	37.345	117.243	0.5	-0.49	0.5	77	AB	---	1.3	SCOTTYS JUNCTION SW
4	12: 0:30	37.351	117.241	0.4	-1.15	0.4	78	AB	---	1.5	SCOTTYS JUNCTION SW
4	12:23:45	37.349	117.242	0.4	-1.03	0.4	78	AB	---	1.3	SCOTTYS JUNCTION SW
5	12:28:36	37.341	117.284	0.1	0.74	0.1	98	AA	1.9	1.7	GOLD POINT
5	18:23:26	37.884	116.130	0.4	0.06	0.6	198	AC	1.8	1.8	REVEILLE PEAK
5	20:35:54	37.351	117.242	0.5	-0.91	0.5	71	AB	---	1.3	SCOTTYS JUNCTION SW
6	1:30:17	37.350	117.237	0.4	-1.03	0.4	71	AB	---	1.8	SCOTTYS JUNCTION SW
6	1:30:56	37.350	117.233	0.5	-0.78	0.4	104	AB	---	1.4	SCOTTYS JUNCTION SW
6	2:22: 2	37.331	117.258	1.0	1.88	1.3	117	AB	---	0.8	GOLD POINT
6	2:22:30	37.314	117.233	1.0	4.84	1.0	179	AC	---	1.3	SCOTTYS JUNCTION SW
6	6:48:59	37.590	116.367	0.4	8.08	1.6	81	AC	---	0.8	QUARTZITE MTN
6	12:58:28	37.851	116.134	0.4	5.85	3.3	189	BC	---	1.3	REVEILLE PEAK
8	20:50: 3	37.341	117.248	0.5	0.10	0.5	70	AA	---	1.4	SCOTTYS JUNCTION SW
10	14:42:45	36.888	116.288	0.2	2.83	1.4	135	AC	---	0.3	SPECTER RANGE SW
10	19:20: 3	37.857	116.134	0.5	3.86*	---	136	CC	1.7	1.8	REVEILLE PEAK
11	3:23: 8	36.709	115.467	0.9	4.70*	---	215	CD	1.8	1.2	BLACK HILLS NW
11	10:44:12	37.858	116.129	0.4	0.79	0.6	187	AC	1.5	1.5	REVEILLE PEAK
11	14:36:40	37.850	116.135	0.2	0.87	0.2	185	AC	---	1.1	REVEILLE PEAK
12	14:59:12	35.961	116.954	1.0	1.63	1.7	280	AD	---	1.4	WINGATE WASH
13	11:29:39	37.395	114.871	0.5	5.87	1.5	225	AD	1.3	1.3	GREGERSON BASIN
14	12:54:28	37.871	116.128	0.2	7.88	2.8	189	BC	2.2	2.2	REVEILLE PEAK
14	13:31:57	37.854	116.137	0.1	4.89	2.2	186	BC	1.5	1.8	REVEILLE PEAK
14	20:40:17	37.187	115.158	0.9	4.35	1.0	188	BD	1.3	1.3	LOWER PAHRANAGAT LAKE NW
14	20:51:12	37.861	116.132	0.2	3.80	1.3	187	AC	1.7	1.5	REVEILLE PEAK
15	7:12:31	37.853	116.136	0.2	0.88	6.3	188	AC	---	1.1	REVEILLE PEAK
15	9:10:32	37.852	116.132	0.2	-0.41	0.3	185	AC	---	1.5	REVEILLE PEAK
16	18:49:54	37.858	116.133	0.2	-0.81	2.6	187	BC	---	1.2	REVEILLE PEAK
17	20:55:59	37.344	117.248	0.4	-0.22	0.3	133	AB	---	0.8	SCOTTYS JUNCTION SW
18	4: 5:29	37.339	117.251	0.5	-0.01	0.4	112	BB	1.3	1.1	GOLD POINT
18	9:12:35	37.863	116.134	0.2	6.25	2.2	197	BC	---	1.4	REVEILLE PEAK
18	16:25:27	37.856	116.133	0.3	5.52	4.1	186	BC	1.4	1.5	REVEILLE PEAK
20	4:23:11	37.867	116.133	0.2	0.55	0.2	188	AC	2.0	2.1	REVEILLE PEAK
21	0:20:14	37.342	117.245	0.3	-0.04	6.3	70	AA	1.6	1.3	SCOTTYS JUNCTION SW
21	6: 0:36	37.857	116.127	0.4	5.38	2.4	187	BC	---	1.1	REVEILLE PEAK
21	8:40:49	37.858	116.138	0.2	5.41	2.4	186	BC	1.7	1.5	REVEILLE PEAK
21	23:20:18	37.852	116.135	0.3	5.28	4.2	185	BC	1.8	1.3	REVEILLE PEAK
22	0:49:25	37.228	115.111	0.4	4.95	1.9	188	AD	1.8	1.8	LOWER PAHRANAGAT LAKE
22	19: 1:35	36.558	116.178	0.3	8.14	1.2	159	AC	---	0.5	SPECTER RANGE SW
22	22:36: 8	37.334	117.237	0.2	0.92	0.3	183	AB	1.5	1.1	SCOTTYS JUNCTION SW
22	23:38:48	37.345	117.254	0.3	0.42	0.3	113	AB	---	0.9	GOLD POINT
23	0:28:11	37.838	116.117	0.2	3.74	1.2	129	AB	---	0.6	YUCCA FLAT
23	3:25: 9	37.341	117.259	0.4	0.12	0.3	111	BB	1.7	1.5	GOLD POINT
23	4:48: 4	37.338	117.257	0.3	0.85	0.2	111	AB	1.8	1.3	GOLD POINT
23	8:38:31	37.868	116.132	0.2	4.68	4.2	187	BC	1.7	1.4	REVEILLE PEAK
23	11:39:59	37.876	116.148	0.4	5.12	4.1	189	BC	---	1.2	REVEILLE PEAK
23	22:22:25	36.746	116.889	0.3	2.12	0.9	161	AC	1.4	0.6	BIG DUNE
24	2:12:40	36.533	116.377	0.1	4.78	1.1	97	AC	1.0	1.0	LATHROP WELLS SW
24	2:41:48	36.926	116.712	0.2	7.22	1.1	129	AC	---	0.5	BARE MTN
24	14:20:34	37.350	117.248	0.4	0.29	0.4	71	AB	---	---	SCOTTYS JUNCTION SW
24	14:24:12	37.345	117.256	0.5	0.40	0.3	112	AB	---	1.0	GOLD POINT
24	14:26:42	37.367	117.283	0.5	-0.40	0.4	116	BB	---	0.8	GOLD POINT
24	14:27:27	37.351	117.247	0.3	-0.10	0.2	71	AB	1.8	1.7	SCOTTYS JUNCTION SW
24	14:35:56	37.344	117.281	0.4	2.87	0.9	70	AA	---	---	GOLD POINT
24	14:51:11	37.337	117.250	0.0	2.32	0.7	170	AC	---	1.0	GOLD POINT
24	14:54:18	37.349	117.245	0.2	0.49	0.2	71	AB	1.9	2.0	SCOTTYS JUNCTION SW
24	14:56:34	37.352	117.244	0.2	0.08	0.2	71	AB	2.0	2.1	SCOTTYS JUNCTION SW
24	15: 9:53	37.347	117.261	0.6	-0.20	0.5	112	BB	---	1.2	GOLD POINT
24	15:10:42	37.349	117.258	0.5	0.08	2.2	113	BC	---	1.1	GOLD POINT
24	15:18:53	37.382	117.246	0.4	0.05	0.3	119	AB	---	1.2	SCOTTYS JUNCTION SW

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1986 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
SEP 24	15:17:54	37.349	117.252	0.3	0.04	0.2	114	AB	1.5	1.5	GOLD POINT
24	15:19:27	37.346	117.252	0.4	0.18	0.3	113	AB	---	1.1	GOLD POINT
24	15:35:50	37.363	117.204	0.7	1.01	0.8	232	AD	---	1.0	SCOTTYS JUNCTION SW
24	15:42:53	37.348	117.244	0.3	0.39	0.1	220	AD	---	1.1	SCOTTYS JUNCTION SW
24	16:54: 1	37.349	117.242	0.2	0.20	0.2	71	AB	---	1.0	SCOTTYS JUNCTION SW
24	19:11: 2	37.351	117.245	0.1	0.25	0.1	85	AB	1.4	1.3	SCOTTYS JUNCTION SW
24	20:37:28	37.352	117.246	0.1	-0.21	0.1	71	AB	1.0	1.0	SCOTTYS JUNCTION SW
24	20:48:14	37.348	117.255	0.2	0.09	0.3	118	AB	---	1.1	GOLD POINT
24	20:51:59	37.349	117.236	0.3	0.35	0.2	119	AB	---	1.1	SCOTTYS JUNCTION SW
24	21:17:18	37.353	117.243	0.3	-0.02	0.2	71	AB	1.0	2.0	SCOTTYS JUNCTION SW
24	22:20:53	37.353	117.248	0.2	0.21	0.2	71	AB	1.5	1.3	SCOTTYS JUNCTION SW
24	22:56:43	37.338	117.269	0.3	-1.03	0.3	151	AC	---	1.2	GOLD POINT
25	10:55:31	37.838	116.105	0.2	-0.24	0.2	166	AC	---	1.4	REVEILLE PEAK
26	0:19:49	37.336	117.292	0.3	1.80	0.8	89	AA	1.5	1.4	GOLD POINT
26	5: 1:38	37.350	117.244	0.2	0.33	0.2	71	AB	2.0	2.0	SCOTTYS JUNCTION SW
26	5: 4:32	37.350	117.243	0.2	0.22	0.2	71	AB	1.6	1.7	SCOTTYS JUNCTION SW
26	5: 6:10	37.349	117.252	0.3	0.02	0.3	113	AB	1.5	1.0	GOLD POINT
26	5:47: 2	37.351	117.240	0.3	0.07	0.3	118	AB	---	1.2	SCOTTYS JUNCTION SW
26	5:47:54	37.345	117.255	0.6	1.22	2.0	113	BB	1.7	1.6	GOLD POINT
26	6: 9: 5	37.348	117.253	0.3	0.40	0.2	113	AB	---	1.1	GOLD POINT
26	13:25:52	36.830	115.994	0.2	0.40	0.3	152	AC	---	0.9	FRENCHMAN FLAT
26	22:43:52	37.334	117.250	0.2	0.73	0.2	171	AB	1.3	1.0	GOLD POINT
26	23:38: 9	37.351	117.247	0.2	0.31	0.2	71	AB	1.7	1.7	SCOTTYS JUNCTION SW
27	0:35:33	37.348	117.245	0.2	0.38	0.2	71	AB	---	1.1	SCOTTYS JUNCTION SW
27	0:54:32	37.354	117.244	0.2	-0.07	0.2	71	AB	1.6	1.6	SCOTTYS JUNCTION SW
27	13:35:12	37.330	117.259	0.5	0.04	0.3	173	AC	---	0.7	GOLD POINT
27	15:40:23	37.315	117.261	0.4	0.37	0.3	110	AB	---	1.0	GOLD POINT
27	16:28:42	37.140	117.411	0.3	0.78	0.4	117	AC	1.0	1.9	UBEHEBE CRATER
27	17:47:40	37.144	117.399	0.4	-0.13	0.8	113	BC	1.3	1.1	UBEHEBE CRATER
28	12:49:48	37.134	117.413	0.3	4.73	2.1	141	BC	---	0.8	UBEHEBE CRATER
28	15:41:54	37.105	117.424	0.5	0.42	1.0	124	BC	---	1.0	UBEHEBE CRATER
28	18:43:22	36.833	115.987	0.4	4.47	1.9	203	AD	---	0.5	FRENCHMAN FLAT
28	23:32:50	36.833	116.340	0.2	0.52	0.3	60	AC	1.5	1.0	STRIPED HILLS
28	23:34:12	36.832	116.338	0.2	3.51	0.6	100	AB	---	0.5	STRIPED HILLS
29	5:21: 1	36.834	115.985	0.2	2.09	0.6	178	AC	---	0.4	FRENCHMAN FLAT
29	8:51:05	36.833	115.990	0.4	2.08	0.9	200	AD	---	0.6	FRENCHMAN FLAT
29	13:59:42	37.808	116.134	0.2	6.52	3.7	109	BC	2.3	---	REVEILLE PEAK
29	14:30:19	37.853	116.129	0.2	2.52	1.2	106	AC	1.9	1.5	REVEILLE PEAK
29	19:30:25	37.069	115.025	0.2	6.21	0.8	112	AB	1.7	1.4	NIKO NE
29	21:18: 7	37.018	116.449	0.4	9.04	0.8	133	AB	---	0.4	TIMBER MTN
29	21:29:40	37.007	115.990	0.1	0.52	0.2	162	AC	1.3	0.8	PAIUTE RIDGE
30	2:55:55	37.331	117.261	0.3	0.03	0.2	109	AB	---	0.7	GOLD POINT
30	3: 3: 9	37.847	116.139	0.2	2.10	1.4	104	AC	---	1.3	REVEILLE PEAK
30	5:56:36	37.335	117.240	0.5	0.72	0.3	113	AB	---	0.7	SCOTTYS JUNCTION SW
OCT 1	3:23:46	36.844	116.275	0.2	3.71	1.2	100	AB	1.3	0.9	JACKASS FLATS
1	8: 2:19	37.189	116.580	0.3	7.63	0.8	109	AB	0.5	0.8	THIRSTY CANYON NE
1	20:20:15	36.800	116.175	0.2	5.89	0.4	79	AA	1.4	1.1	SKULL MTN
1	21: 8:11	37.854	116.132	0.2	2.63	1.4	108	AC	1.0	1.0	REVEILLE PEAK
2	0: 7:49	37.858	116.132	0.2	0.46	0.3	107	AC	2.2	2.2	REVEILLE PEAK
2	6:54:15	37.287	116.510	0.7	11.04	1.0	213	BD	0.6	0.9	TRAIL RIDGE
2	13:41: 8	37.333	117.256	0.2	1.59	0.3	156	AC	0.5	1.1	GOLD POINT
2	17:16:43	36.634	116.384	0.1	0.07	0.3	74	AA	1.6	1.1	LATHROP WELLS NW
3	16:33:57	37.348	117.255	0.3	0.27	0.2	112	AB	0.5	1.1	GOLD POINT
4	2: 0:34	36.673	116.421	0.2	3.98	1.1	74	AB	1.4	0.9	LATHROP WELLS NW
4	15:56:25	37.847	116.135	0.2	0.96	0.3	104	AC	0.7	1.5	REVEILLE PEAK
6	1:41:37	36.634	116.247	0.2	0.43	0.5	130	AB	0.4	0.7	SPECTER RANGE NW
6	10: 5:48	37.348	117.258	0.4	0.60	0.3	158	AC	0.5	0.7	GOLD POINT
7	18: 0:43	36.785	116.080	0.9	7.44	1.4	211	AD	0.3	0.7	CANE SPRING
8	12:20:58	37.844	115.885	0.5	1.06	1.1	149	AC	0.8	1.4	WHITE RIVER NARROWS
8	1:39: 5	37.858	116.129	0.2	-0.06	0.3	106	AC	1.0	1.0	REVEILLE PEAK
9	2: 7: 8	36.488	117.142	0.4	4.23	1.0	178	AC	0.8	1.4	EMIGRANT CANYON
9	7:45:28	37.884	116.126	0.3	2.12	1.4	154	AC	0.7	1.4	REVEILLE PEAK
10	5:35:53	37.858	116.135	0.3	5.58	4.4	106	BC	0.9	1.8	REVEILLE PEAK
10	5:52:15	37.849	116.140	0.5	7.30	3.8	104	BC	2.1	1.6	REVEILLE PEAK
10	5:56:11	37.857	116.133	0.2	0.72	0.3	106	AC	2.0	1.8	REVEILLE PEAK
11	11:51:10	37.814	116.132	0.6	4.60	1.5	216	AD	1.3	0.8	TIPPIPAH SPRING

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1986 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
OCT 11 19:11:16	36.810	116.002	0.3	3.82	2.8	129	BC	1.7	1.3	CANE SPRING
12 6:51:57	37.843	116.103	0.4	5.31	0.8	254	AD	1.2	0.9	YUCCA FLAT
12 10:53:16	37.462	117.319	0.4	2.58	1.1	120	AC	0.5	1.2	MOUNT JACKSON
13 2: 2:58	36.805	116.298	0.3	7.02	0.3	88	AA	0.3	0.5	STRIPED HILLS
13 7: 0:41	37.604	116.408	0.3	0.16	1.8	87	AC	0.5	1.1	QUARTZITE MTN
13 9: 3:27	37.864	116.120	0.3	0.38	0.5	108	AC	0.7	1.4	REVEILLE PEAK
13 14:23:33	37.230	117.348	0.2	0.37	0.6	92	AB	0.6	1.3	UBEHEBE CRATER
13 19:17: 8	36.850	116.076	0.2	0.77	0.6	114	AB	1.5	1.1	CANE SPRING
13 20:37:30	36.857	116.078	0.3	0.46	0.6	108	AD	0.4	0.8	CANE SPRING
14 1:33:36	36.851	115.264	0.3	2.00	0.7	98	AB	0.2	0.2	JACKASS FLATS
14 3:56:42	37.832	116.134	0.1	0.70	0.2	105	AC	2.0	1.8	REVEILLE PEAK
14 8:56:35	36.818	115.993	0.2	0.07	1.1	111	AC	1.9	1.2	FRENCHMAN FLAT
14 13: 3:13	37.178	117.437	0.2	0.65	0.7	132	AC	0.5	1.0	UBEHEBE CRATER
14 22:20: 1	36.803	116.037	1.0	2.45	0.9	157	AC	0.6	0.5	BARE MTN
15 4:28:58	37.860	116.136	0.3	0.53	0.4	107	AC	0.8	1.8	REVEILLE PEAK
15 11:41:11	37.859	116.131	0.2	0.43	0.4	107	AC	2.1	1.7	REVEILLE PEAK
15 18:28:54	37.319	115.358	0.5	1.28	1.8	105	AC	0.5	1.2	BADGER SPRING
16 16:48:12	37.882	114.965	0.3	1.68	0.8	135	AC	0.5	1.2	PAHROC SPRING
16 23:16:16	37.863	116.133	0.3	7.00**	0.2	112	CC	0.7	1.5	REVEILLE PEAK
17 1:31:30	37.216	116.458	0.5	5.49	2.9	68	BC	2.5	2.2	SCRUGHAM PEAK
17 20:28:35	37.856	116.139	0.3	0.04	0.5	104	AC	0.7	1.4	REVEILLE PEAK
17 23: 7:57	37.813	115.133	0.3	9.16	1.1	171	AC	2.1	1.7	LOWER PAHRANAGAT LAKE SW
18 20:32:55	37.858	116.139	0.2	2.30	1.0	108	AC	0.8	1.6	REVEILLE PEAK
19 11:44:23	37.553	115.818	0.1	0.10	0.2	89	AC	0.6	1.4	WHITE BLOTCH SPRINGS
20 0:39:33	37.868	116.134	0.2	1.11	1.0	108	AC	1.9	1.5	REVEILLE PEAK
20 16:39:39	37.284	117.623	0.5	4.00	1.3	188	AB	0.5	1.1	MAGRUDER MTN
21 10:55:57	37.333	117.259	0.3	0.83	0.2	110	AB	0.5	1.1	GOLD POINT
21 19:50:38	37.541	117.574	0.3	0.68	0.4	89	AC	1.9	1.6	LIDA WASH
21 22:23:29	36.794	116.751	53.7	7.00*	---	339	DD	---	1.5	BULLFROG
21 22:43:52	37.868	116.134	0.2	0.23	0.2	107	AC	1.5	1.7	REVEILLE PEAK
22 7:35:28	37.350	117.234	0.4	-0.12	0.3	72	AB	2.5	---	SCOTTYS JUNCTION SW
22 9:58: 2	37.859	116.131	0.1	0.25	0.2	107	AC	2.0	2.0	REVEILLE PEAK
22 10: 0:15	37.839	115.078	0.2	0.70	0.3	120	AB	0.5	1.3	WHITE RIVER NARROWS
22 11:39: 2	37.851	115.045	0.4	5.11	0.7	165	AC	1.8	1.9	WHITE RIVER NARROWS
22 12:56: 4	37.847	115.070	0.4	3.96	0.8	130	AB	0.5	1.4	WHITE RIVER NARROWS
23 7: 4:58	37.851	116.135	0.2	0.72	0.3	105	AC	0.6	1.4	REVEILLE PEAK
25 9:27: 0	37.258	117.311	0.4	0.12	0.3	124	AB	0.6	1.1	GOLD POINT
26 5:30:47	37.278	116.341	0.3	1.08	1.1	80	AB	2.3	2.3	DEAD HORSE FLAT
26 17:10:39	37.859	116.141	0.3	6.93	2.0	108	AC	0.7	1.3	REVEILLE PEAK
26 19:54:39	37.859	116.132	0.1	0.43	0.7	107	AC	2.2	1.8	REVEILLE PEAK
27 11:17: 4	37.851	115.062	0.5	4.95	0.7	142	AC	0.8	1.7	WHITE RIVER NARROWS
29 2:36:49	37.345	117.241	0.3	-0.03	0.2	70	AB	1.9	1.6	SCOTTYS JUNCTION SW
29 4: 6:42	37.864	116.136	0.2	0.33	0.3	108	AC	0.8	1.8	REVEILLE PEAK
29 7:26:19	37.316	117.493	0.2	-0.67	0.3	105	AC	0.6	1.2	GOLD POINT SW
29 7:53:36	37.856	116.134	0.2	0.47	0.3	106	AC	1.8	1.7	REVEILLE PEAK
29 12:17:15	37.348	117.259	0.3	0.68	0.2	111	AB	0.5	1.0	GOLD POINT
29 14:48: 3	37.851	116.135	0.3	1.68	0.9	105	AC	0.7	1.5	REVEILLE PEAK
30 23:45:11	37.154	117.359	0.3	0.12	2.0	116	AC	0.5	1.2	UBEHEBE CRATER
31 13:10:28	37.851	116.136	0.2	0.84	0.3	105	AC	0.7	1.5	REVEILLE PEAK
31 13:35:31	37.213	117.026	0.2	12.32	1.2	135	AC	0.4	1.1	BONNIE CLAIRE
NOV 1 13:20: 3	37.327	114.872	0.4	5.51	1.4	217	AD	1.6	1.4	GREGERSON BASIN
3 12:15:45	37.489	117.688	0.1	0.85	0.2	108	AC	1.9	1.7	MAGRUDER MTN
5 4:11:20	37.849	116.134	0.2	0.25	0.3	105	AC	0.7	1.5	REVEILLE PEAK
8 1:24: 9	36.492	116.580	0.2	4.62	2.0	68	BC	0.6	1.1	RYAN
8 1:52:51	37.810	116.921	0.2	0.57	0.2	140	AC	0.8	1.9	CACTUS PEAK
8 5:30:26	37.864	115.068	0.3	0.83	0.4	98	AC	0.5	1.1	HIKO NE
8 18:28:41	37.853	116.137	0.3	4.59	5.6	105	CC	0.7	1.5	REVEILLE PEAK
9 10: 0: 5	37.867	116.134	0.2	0.83	0.3	108	AC	1.8	1.8	REVEILLE PEAK
9 20:31:55	37.863	116.136	0.2	0.84	0.3	107	AC	1.7	1.7	REVEILLE PEAK
10 15:32:57	37.158	117.385	0.2	1.75	0.7	110	AC	1.5	1.4	UBEHEBE CRATER
10 16:29:30	37.162	117.384	0.4	2.61	2.7	121	BC	0.5	1.1	UBEHEBE CRATER
11 3:49:00	37.854	116.134	0.3	1.79	0.9	106	AC	1.8	1.7	REVEILLE PEAK
11 20: 7: 0	37.141	116.289	0.1	7.42	0.4	63	AB	1.7	1.5	AMMONIA TANKS
11 21:30:37	37.143	116.294	0.2	7.78	0.3	62	AB	0.5	1.0	AMMONIA TANKS
12 1:40:20	37.851	116.136	0.2	0.83	0.3	105	AC	1.4	1.6	REVEILLE PEAK
12 8:27:39	37.850	116.135	0.2	1.02	1.0	105	AC	1.9	1.7	REVEILLE PEAK

9075900/618

1988 LOCAL HYPOCENTER SUMMARY

DATE	TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
NOV 12	11:19:44	36.813	116.572	0.8	0.20	0.2	304	AD	0.5	0.5	BARE MTN
13	3:35:34	37.052	116.137	0.3	4.02	0.3	105	CC	1.0	1.6	REVEILLE PEAK
14	1:45: 4	37.012	116.223	0.5	2.14	0.8	131	AB	1.5	1.1	TIPPIPAH SPRING
15	3: 1: 4	37.114	117.122	0.3	5.49	2.5	198	BC	0.5	0.8	BONNIE CLAIRE SE
15	12:37: 7	37.352	117.254	0.3	-0.28	0.2	71	AB	1.0	1.6	GOLD POINT
15	17:46:12	36.649	115.724	0.5	5.84	5.4	205	CD	0.5	1.0	INDIAN SPRINGS NW
16	17:56:28	37.275	116.265	0.5	11.45	1.7	98	AC	0.4	0.9	DEAD HORSE FLAT
17	17:55:34	37.195	116.392	0.2	7.70	0.4	97	AB	0.5	0.9	SCRUGHAM PEAK
17	18:30: 9	37.196	116.379	0.4	6.04	0.7	88	BA	0.5	1.0	SCRUGHAM PEAK
17	18:51:38	37.199	116.386	0.2	6.18	0.3	84	AA	1.5	1.1	SCRUGHAM PEAK
17	19:20:42	37.202	116.383	0.3	6.61	0.7	104	BB	0.4	1.0	SCRUGHAM PEAK
17	23:55:26	37.780	117.443	0.9	11.51	3.8	297	BD	---	---	PAYMASTER RIDGE
18	2:27:20	37.848	116.135	0.3	2.42	1.8	105	AC	1.9	1.8	REVEILLE PEAK
18	4: 1:40	37.848	116.129	0.4	0.37	0.4	191	AD	0.6	1.4	REVEILLE PEAK
18	20: 4: 3	36.623	116.023	0.1	9.58	0.4	63	AA	1.8	1.4	SPECTER RANGE SE
19	11:53:37	37.354	114.842	0.7	7.00**	5.6	197	CD	0.5	1.0	DELAMAR LAKE
19	23:29: 5	36.721	116.272	0.5	5.39	0.6	259	AD	0.3	0.5	STRIPED HILLS
20	22:34:51	36.878	116.184	0.5	7.34	0.7	178	AC	0.2	0.3	MINE MTN
21	16:28:38	37.342	117.293	0.4	0.13	0.3	112	AB	0.8	1.1	GOLD POINT
22	0:20:21	36.912	116.183	0.6	9.83	0.4	291	AD	0.3	0.7	MINE MTN
22	4:14:37	37.240	117.108	0.4	13.74	1.3	75	BC	0.8	1.2	BONNIE CLAIRE
22	15:38:38	36.583	116.259	0.2	6.79	1.1	67	AB	1.0	1.1	LATHROP WELLS SE
22	23: 7:55	37.938	115.247	0.8	6.40	3.4	282	BD	0.6	1.7	OREANA SPRING
23	23:31:15	36.884	116.175	0.2	7.00**	0.3	58	AA	1.6	1.3	MINE MTN
24	3:55:59	37.045	117.544	0.3	4.98	3.6	167	BC	2.0	1.9	LAST CHANCE RANGE
25	12:23:20	37.144	116.298	0.2	8.31	1.0	81	AA	1.6	1.6	AMMONIA TANKS
26	0:21:32	36.916	116.783	0.2	5.88	1.7	72	AC	1.6	1.4	BULLFROG
26	21:27:43	37.221	116.875	0.2	8.59	1.2	146	AC	0.4	0.8	SPRINGDALE
27	1: 1:37	37.079	116.032	0.2	0.51	0.3	163	AC	2.0	1.7	YUCCA FLAT
27	8: 1:56	37.570	117.449	0.2	5.59	1.0	92	AC	0.4	0.9	MONTEZUMA PEAK SW
28	9:17:53	36.836	115.990	0.3	6.35	1.0	202	AD	0.3	0.8	FRENCHMAN FLAT
28	20:57:37	36.735	116.144	0.2	7.78	0.7	128	AB	0.2	0.4	SPECTER RANGE NW
29	0:48:17	36.963	116.144	0.6	5.16	1.8	294	AD	0.3	0.5	MINE MTN
29	11:38:27	36.901	116.216	0.3	2.13	0.4	302	AD	0.5	0.2	MINE MTN
29	14:58:34	37.302	114.989	0.7	4.49	2.2	197	BD	0.6	1.4	DELAMAR LAKE
30	4: 7:32	37.891	116.166	0.8	5.21	0.2	151	CC	0.6	1.2	REVEILLE PEAK
DEC 2	2: 3:38	37.853	116.132	0.2	0.33	0.2	106	AC	1.7	1.9	REVEILLE PEAK
2	3:59:22	36.870	116.162	0.2	1.57	0.4	87	AA	1.3	1.0	SKULL MTN
2	16:48:43	37.338	117.276	0.4	-0.03	0.2	173	AC	0.9	1.0	GOLD POINT
2	17:45:23	36.437	116.963	0.2	10.63	0.5	86	AB	2.0	1.6	FURNACE CREEK
2	20: 7:14	37.621	114.981	0.2	0.28	0.2	100	AB	0.4	1.1	PAHROC SUMMIT PASS
3	15:35:34	36.459	116.158	0.2	10.46	0.4	77	AA	0.9	1.1	AMARGOSA FLAT
3	16:38:53	36.466	116.166	0.2	9.17	0.4	76	AA	---	1.0	AMARGOSA FLAT
3	16:39: 5	36.463	116.160	0.2	10.44	0.4	77	AA	2.0	1.0	AMARGOSA FLAT
3	16:46:14	36.463	116.163	0.2	10.11	0.4	77	AA	1.7	1.4	AMARGOSA FLAT
3	17:58:54	37.853	116.135	0.4	1.38	1.5	105	BC	0.8	1.5	REVEILLE PEAK
4	9:14:57	37.848	116.129	0.2	2.62	1.4	105	AC	0.7	1.5	REVEILLE PEAK
4	19:34:27	37.333	116.963	0.2	0.31	1.0	124	AC	1.7	1.2	TOLICHA PEAK
4	21:37:28	37.335	116.965	0.3	0.82	1.5	125	AC	0.8	1.3	TOLICHA PEAK
5	11:24:49	36.823	116.818	0.3	13.38	0.4	120	AB	0.3	0.6	CAMP DESERT ROCK
5	18:18:51	37.352	117.234	0.3	-0.36	0.2	72	AB	2.1	1.9	SCOTTYS JUNCTION SW
6	2:21: 8	36.969	116.481	0.1	-0.26	0.2	162	AC	0.5	0.7	TOPOPAH SPRING NW
6	8:55:33	36.868	116.888	0.2	11.46	0.5	171	AC	0.4	0.8	CANE SPRING
6	9:20: 1	36.462	116.105	0.2	0.87	0.4	65	AA	2.4	2.7	AMARGOSA FLAT
6	9:20:13	36.459	116.160	0.2	10.87	0.3	69	AA	1.8	1.8	AMARGOSA FLAT
6	9:32:55	36.461	116.158	0.2	10.71	0.3	69	AA	2.0	1.8	AMARGOSA FLAT
6	9:36:28	36.462	116.161	0.2	10.61	0.3	68	AA	1.8	1.4	AMARGOSA FLAT
8	10:12:25	37.168	115.517	0.3	5.67	3.0	125	BC	0.5	1.3	FALLOUT HILLS NE
9	20:39:39	37.242	115.404	0.4	1.40	1.8	105	AC	0.8	1.4	DESERT HILLS NW
10	5:42:49	36.857	116.372	0.4	5.63	0.5	212	AD	0.2	0.4	STRIPED HILLS
10	9: 0:21	37.862	116.127	3.3	7.00**	3.2	111	BC	0.7	1.5	REVEILLE PEAK
10	15: 3:53	36.631	116.332	0.2	3.00	1.1	42	AA	2.3	2.0	STRIPED HILLS
10	15:25:19	36.636	116.331	0.4	3.53	0.3	183	AD	0.4	0.7	STRIPED HILLS
10	15:37:49	36.641	116.330	0.8	3.50	0.2	165	AC	0.3	0.5	STRIPED HILLS
12	10: 6:30	37.882	116.126	0.3	18.16	1.4	112	AC	0.7	1.7	REVEILLE PEAK
12	15:52:10	37.859	116.124	0.4	10.66	2.3	107	BB	0.6	1.4	REVEILLE PEAK

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9075900/619

1988 LOCAL HYPOCENTER SUMMARY

DATE - TIME (UCT)	LATITUDE (DEG. N)	LONGITUDE (DEG. W)	HORIZ ERROR (KM)	DEPTH (KM)	VERT ERROR (KM)	AZI GAP (DEG)	QUAL	Md	Mblg	QUADRANGLE
DEC 12 18:11: 1	36.458	116.169	0.2	10.03	0.4	69	AA	1.5	1.2	AMARGOSA FLAT
12 22:58:46	37.331	114.952	0.2	1.83	0.6	159	AC	1.6	1.7	DELAMAR LAKE
15 3:45:54	36.636	116.335	0.4	3.54	0.4	184	AD	0.3	0.6	STRIPED HILLS
15 16:17: 5	37.331	114.955	0.4	1.84	0.7	197	AD	0.8	1.4	DELAMAR LAKE
16 2:20:41	37.107	118.244	1.4	-0.08	1.2	289	BD	2.1	2.0	***REGIONAL***
16 16: 1:17	37.871	116.120	0.4	4.74	0.6	109	CC	2.1	2.2	REVEILLE PEAK
16 19:28: 0	36.215	115.969	0.3	5.01	2.3	170	BC	0.7	1.4	PAHRUMP
17 3:27:48	36.601	116.055	0.2	5.24	0.7	129	AC	0.5	0.6	SPECTER RANGE SE
17 7:56:41	36.897	116.250	0.5	5.36	0.4	211	AD	0.4	0.7	STRIPED HILLS
17 11:40:52	37.469	117.253	0.3	5.09	2.0	93	BC	1.5	1.4	MOUNT JACKSON
17 13: 5:33	37.180	114.917	0.6	7.01	1.3	214	AD	0.6	1.3	DELAMAR 3 NW
17 15:36:34	37.184	114.934	0.5	9.18	1.0	245	AD	0.7	1.5	DELAMAR 3 NW
17 19:32: 7	37.187	114.948	0.5	14.30	0.6	215	AD	1.4	1.8	DELAMAR 3 NW
18 14:52:42	36.459	116.183	0.2	10.25	0.3	68	AA	0.5	0.9	AMARGOSA FLAT
18 21:32:28	36.459	116.181	0.2	10.51	0.2	66	AA	0.6	1.1	AMARGOSA FLAT
19 20:30:29	36.384	117.446	0.5	5.94	3.2	238	BD	0.6	1.3	PANAMINT BUTTE
20 19: 3:37	36.718	117.287	0.3	9.54	0.7	118	AB	2.0	1.7	MARBLE CANYON
21 1:27: 0	37.857	116.135	0.2	0.10	0.3	186	AC	1.7	1.7	REVEILLE PEAK
21 3: 3:38	37.855	116.135	0.4	5.07	7.3	186	CC	0.8	1.0	REVEILLE PEAK
21 9:15:37	36.866	116.578	0.5	8.68	0.6	196	AD	0.4	0.5	BARE MTN
22 4:47:20	37.856	116.127	0.3	0.38	0.8	186	AC	1.8	2.1	REVEILLE PEAK
23 1:11:49	37.849	116.133	0.2	6.78	1.7	185	AC	0.8	1.0	REVEILLE PEAK
23 4:14:17	37.516	117.199	0.4	8.86	2.7	188	BC	1.5	1.4	GOLDFIELD
23 4:29:51	37.516	117.200	0.6	5.61	5.7	189	CC	0.6	1.2	GOLDFIELD
23 5:23: 9	36.702	116.268	0.2	0.52	0.1	125	AB	0.4	0.7	STRIPED HILLS
24 1:56:54	36.626	116.348	0.2	4.12	0.8	50	BA	1.7	1.2	STRIPED HILLS
24 6:41: 9	37.665	114.878	0.3	5.53	0.5	153	AC	0.6	1.1	PAHROC SPRING
26 5:51: 8	36.633	116.345	0.2	3.84	0.3	69	AA	0.5	0.7	STRIPED HILLS
26 9:51:37	37.249	117.658	0.3	8.18	0.4	156	AC	0.6	1.1	LAST CHANCE RANGE
26 18: 1:35	37.349	117.236	0.8	0.10	0.5	71	AB	---	---	SCOTTYS JUNCTION SW
27 21: 0:20	36.602	116.048	0.1	0.31	0.5	63	AB	1.8	1.5	SPECTER RANGE SE
27 22:22:29	37.854	116.134	0.2	5.59	2.4	186	BC	2.1	1.7	REVEILLE PEAK
28 2:58:43	37.859	116.137	0.3	6.10	2.7	187	BC	0.8	1.6	REVEILLE PEAK
28 5:34:12	37.288	117.680	0.3	-1.83	0.3	156	AC	0.6	1.1	MAGRUDER MTN
28 9:41:11	37.843	116.130	0.5	8.98	0.5	189	AD	0.5	1.1	REVEILLE PEAK
29 1:45:18	37.854	116.138	0.3	4.84	6.8	186	CC	0.7	1.4	REVEILLE PEAK
29 2:41:49	37.847	116.134	0.3	4.60	4.4	184	BC	0.7	1.4	REVEILLE PEAK
29 9:58:38	37.851	116.149	0.3	5.78	2.7	154	BC	0.7	1.5	REVEILLE PEAK
29 15:55:58	37.795	116.197	0.3	8.38	2.3	122	BC	0.7	1.7	REVEILLE PEAK
30 9: 1:34	37.858	116.132	0.1	2.15	0.9	187	AC	0.8	1.6	REVEILLE PEAK
30 11:59:54	37.316	117.692	0.2	0.50	0.3	147	AC	0.8	1.5	MAGRUDER MTN
30 14:14:51	36.870	116.071	0.2	9.75	6.5	64	AA	0.7	2.5	CAMP DESERT ROCK
30 16:28:30	37.164	117.882	0.3	8.33	1.4	222	AD	0.7	1.4	WAUCOBA SPRING
30 17: 6:35	37.184	117.867	0.3	8.22	1.0	218	AD	0.7	1.5	WAUCOBA SPRING
30 16: 5:44	37.848	116.135	0.2	4.33	5.7	185	CC	0.8	1.5	REVEILLE PEAK
30 22:45:15	37.172	117.870	0.2	5.13	2.5	79	BC	0.8	1.0	BONNIE CLAIRE
31 0:40: 8	37.168	117.886	0.9	5.08	5.2	245	CD	---	1.9	WAUCOBA SPRING
31 1:57:42	36.548	116.248	0.2	7.72	0.9	153	AC	0.5	0.9	SPECTER RANGE SW
31 2:40:25	36.544	116.244	0.2	6.93	1.5	188	AC	1.4	1.3	SPECTER RANGE SW
31 5:39:19	37.173	117.888	0.5	7.34	2.0	219	AD	0.8	1.4	WAUCOBA SPRING
31 15:52:35	36.600	116.049	0.2	9.64	0.5	131	AB	0.4	0.9	SPECTER RANGE SE
31 19:58: 7	36.599	116.047	0.2	10.26	0.5	132	AB	0.4	1.0	SPECTER RANGE SE
31 20:22:35	36.739	116.181	0.2	8.54	0.6	98	AB	0.5	1.0	CAMP DESERT ROCK

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9075000/020

Appendix B

Station codes, locations, and instrumentation

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STATION INFORMATION

CODE	STATION	PERIOD OF OPERATION (YR/MO/DA-YR/MO/DA)	LATITUDE (DEG MINUTES)	LONGITUDE (DEG MINUTES)	ELEVATION (METERS)	SEISMOMETER MODEL	GAIN (DB)
AMR	Amargosa, Cal	78/07/24-present	36 23.86 N	116 28.45 W	720	L-4C	84
APK	Angels Peak, Nev	75/06/15-83/08/05	36 19.17 N	115 34.48 W	2680	S-13 to 81/03/21 L-4C 81/03/21-end	84
APKW	Angels Peak, Nev	83/08/05-present	36 19.19 N	115 35.22 W	2512	L-4C	84
BGB	Big Bulle, Nev	79/01/23-present	37 02.27 N	116 13.06 W	1720	L-4C	84
BLT	Belted Range, Nev.	79/05/30-present	37 28.93 N	116 07.35 W	1820	L-4C	84
BMT	Black Mountain, Nev.	80/02/26-83/04/01	37 17.02 N	116 38.74 W	2191	L-4C	84
BMTN	Black Mountain, Nev	83/04/01-present	37 17.35 N	116 38.43 W	1900	L-4C	84
CDHI	Calico Hills, Nev.	80/02/06-81/11/18	36 51.62 N	116 19.05 W	1387	L-1-30S (vert.) L-4C 18/11/81-pr	90 84
CP1	CP-1, Nev.	77/--/----80/03/01	36 55.80 N	116 03.33 W	1285	NGC-21 to 80/08/05 L-4C 80/08/05-pr.	84
CTS	Cactus Peak, Nev.	79/04/24-present	37 39.40 N	116 43.54 W	1890	L-4C	84
DLM	Delamar Mountains, Nev.	78/06/08-present	37 36.35 N	114 44.33 W	1730	L-4C	84
EPN	Echo Peak, Nev.	75/09/02-present	37 12.85 N	116 19.42 W	2285	S-13 to 80/04/25 L-4C 80/04/25-pr.	84
EPNH	Echo Peak, Nev	84/06/06-present	37 12.85 N	116 19.42 W	2.35	L-4C horizontal	78
EPR	East Pahranagat Rg. Nev	79/01/23-present	37 16.12 N	115 11.19 W	1300	L-4C	84
FMT	Funeral Mountains, Cal.	78/11/28-present	36 38.38 N	116 46.73 W	1825	L-4C	84
GLR	Groom Lake Road, Nev.	75/11/20-present	37 11.96 N	116 01.06 W	1435	L-4C	84
GMN	Gold Mountain, Nev.	79/07/13-present	37 18.8. N	117 15.58 W	2155	L-4C	84
GMNH	Gold Mountain, Nev.	84/07/30-present	37 18.81 N	117 15.58 W	2155	L-4C horizontal	78
GMR	Groom Range, Nev.	79/01/23-present	37 28.03 N	115 46.27 W	1580	L-4C	84
GMRH	Groom Range Nev.	84/09/09-present	37 26.03 N	115 46.27 W	1580	L-4C	84
GVN	Grapevine, Cal	78/11/28-present	37 00.09 N	117 28.55 W	865	L-4C	84
GWV	Greenwater Valley, Cal	78/07/24-present	36 11.20 N	116 40.24 W	1540	L-4C	84
HCR	Hot Creek Range, Nev.	81/07/21-present	38 14.02 N	116 26.18 W	2030	L-4C	84
JDN	Johnnie, Nev.	78/07/24-present	36 26.39 N	116 06.18 W	920	L-4C	84
JDNH	Johnnie, Nev.	84/06/22-present	36 26.38 N	116 06.18 W	920	L-4C horizontal	78
KRNA	Kawich Range, Nev.	80/04/23-present	37 44.47 N	116 22.80 W	1980	L-4C	84
LCH	Last Change Range, Cal.	79/07/13-present	37 14.00 N	117 38.84 W	1455	L-4C	84
LOP	Lookout Peak, Nev.	79/01/23-present	36 51.25 N	116 10.05 W	1635	L-4C	84
LSM	Little Skull Mt., Nev.	79/12/13-present	36 44.40 N	116 16.37 W	1140	S-13	84
LSMH	Little Skull Mt., Nev.	84/07/17-present 86/01/13	36 44.40 N	116 16.37 W	1140	L-4C horizontal Gain lowered to	78 38
LSME	Little Skull Mt., Nev.	84/07/17-present 86/01/13	36 44.40 N	116 16.37 W	1140	L-4C horizontal Gain lowered to	78 38
MCA	Marble Canyon, Cal.	79/01/23-present	36 38.89 N	117 16.85 W	300	L-4C	84
MCY	Mercury, Nev.	80/03/07-present	36 39.70 N	115 57.73 W	1285	S-13	84
MGM	Mogruder Mountain, Nev.	79/07/13-present	37 26.47 N	117 29.79 W	2100	L-4C	84
MTI	Mount Irish, Nev.	79/06/08-present	37 40.60 N	115 18.36 W	1525	L-4C	84

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MZP	Montezuma Peak, Nev.	79/07/13-present	37 42.04 N	117 22.98 W	2375	L-4C	84
HOP	Hopah Range, Cal.	78/07/24-present	36 07.68 N	116 09.16 W	970	L-4C to 80/04/25 S-13 80/04/25-pr	84 84
NPN	North Pahroc Rg, Nev.	79/06/08-present	37 39.16 N	114 56 22 W	1650	L-4C	84
PGE	Panamint Range, Cal.	78/11/28-present	36 20.93 N	117 03 95 W	1850	L-4C	84
PGEH	Panamint Range, Cal.	84/10/11-present	36 20.93 N	117 03.95 W	1850	L-4C horizontal	78
PPK	Piper Mountain, Cal.	79/07/13-present	37 25.58 N	117 54.43 W	1830	L-4C	84
PRN	Pahroc Range, Nev.	72/01/21-present	37 24.42 N	115 02.99 W	1470	HGC-21 to 80/06/19 S-13 80/06/19-pr.	84
PRNH	Pahroc Range, Nev.	84/08/28-present	37 24.42 N	115 02.99 W	1470	L-4C horizontal	78
QCS	Queen City Summit, Nev.	79/06/08-present	37 46.07 N	115 54.98 W	1890	L-4C	84
QSM	Queen of Sheba Mine, Ca	78/11/28-present	35 57.93 N	116 52.10 W	670	L-4C	84
SDM	Striped Hills, Nev.	78/07/24-present	36 38.73 N	116 28.29 W	1055	L-4C	84
SGV	South Grapevine Mts, Ca	78/11/28-81/06/15	36 58.87 N	117 01.94 W	1565	L-4C S-13 81/06/15-pr	84 84
SHRG	Sheep Range, Nev.	79/05/22-present	36 38.27 N	115 09.31 W	1645	L-4C	84
SPRG	Spotted Range, Nev.	79/05/28-present	36 41.64 N	115 48.56 W	1235	L-4C	84
SRG	Seaman Range, Nev.	79/06/08-present	37 52.93 N	115 04.08 W	1645	L-4C	84
SSP	Shoshone Peak, Nev.	73/10/10-present	36 55.50 N	116 13.11 W	2065	HGC-21 to 80/05/25 L-4C 80/05/27-pr.	84
SVP	Silver Peak Range, Nev.	79/07/13-present	37 42.98 N	117 48.85 W	2020	L-4C	84
TCN	Thirsty Canyon, Nev.	84/11/02-present	37 08.80 N	116 43.52 W	1469	L-4C	84
TMBR	Timber Mt., Nev.	82/02/19-present	37 02.05 N	116 23.13 W	1758	L-4C	84
TMO	Tin Mountain, Cal.	78/11/28-present	36 48.32 N	117 24.48 W	2195	L-4C	84
TPU	Tempiute Mountain, Nev.	79/06/08-present	37 36.30 N	115 38.95 W	1915	L-4C	84
WCT	Wildcat Mountain, Nev.	81/04/08-present	36 47.53 N	116 37.60 W	1800	L-4C	84
WRN	Worthington Mts., Nev.	79/06/08-present	37 58.90 N	115 35.30 W	1760	L-4C	84
YMT1	Yucca Mountain, Nev.	81/03/05-present	36 51.29 N	116 31.80 W	1176	S-13	84
YMT2	Yucca Mountain, Nev.	81/03/05-present	36 47.12 N	116 29.19 W	1069	S-13	84
YMT3	Yucca Mountain, Nev.	81/03/05-present	36 47.73 N	116 24.79 W	1050	S-13	84
YMT4	Yucca Mountain, Nev.	81/04/01-present	36 50.83 N	116 27.07 W	1256	S-13	84
YM4N	Yucca Mountain, Nev.	84/06/29-present 86/01/13	36 50.83 N	116 27.07 W	1256	L-4C horizontal Gain lowered to	78 60
YM4E	Yucca Mountain, Nev.	84/06/29-present 86/01/13	36 50.83 N	116 27.07 W	1256	L-4C horizontal Gain lowered to	78 60
YMT5	Yucca Mountain, Nev.	81/04/01-present	36 53.90 N	116 27.23 W	1374	S-13	84
YMT6	Yucca Mountain, Nev.	81/04/01-present	36 51.51 N	116 24.26 W	1160	S-13	84

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APPENDIX C

Input parameters to HYPO71

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Hypocenter Parameters Used for Earthquake Location Procedure

Routine earthquake location from phase data obtained from the southern Great Basin network is done using the computer program HYPO71 (Lee and Lahr, 1975). Their program has been modified to compute theoretical travel times of seismic rays to actual seismograph station locations, rather than to some mean reference ground level, as in the original computer program. This modification was necessary because SGB station elevations vary from 300 meters above sea level (station MCA) to 2620 meters above sea level (station SVP). Since most station elevations are greater than 1000 meters, we allow earthquake depth of focus to rise to -1.2 km, where negative depths (actually elevations) represent foci above sea level. Test variables 14 and 15 in HYPO71 have been assigned values to invoke the variable surface layer thickness option (see Table C2 below).

A second modification to the HYPO71 program computes local earthquake magnitudes according to the methods discussed in Rogers and others (1987) in the section "magnitude estimation details." Test variables 16 and 17 in HYPO71 are assigned values to determine M_{ca}, the coda amplitude magnitude developed by Carl Johnson (1979). Three event magnitudes, M_L, M_d, and M_{ca} may be obtained for each digitally-recorded earthquake. The magnitude in the column with heading "Md" in appendix A, this report, is an average of duration magnitude, M_d and coda amplitude magnitude, M_{ca}, if both estimates are available for a given earthquake. For develocorder-film-read earthquakes, only total coda duration is routinely read to estimate magnitudes. When a single magnitude is needed for an earthquake, for example, when plotting epicenters according to earthquake size, we average the three magnitudes by the formula

$$M = 0.5M_L + 0.25M_d + 0.25M_{ca}.$$

The P- and S-wave velocity model used to locate earthquakes is shown in table C1 below.

Depth to top of layer (km)	P-wave velocity (km/sec)	S-wave velocity (km/sec)
Station Elevation	3.8	2.22
1.0	5.9	3.45
3.0	6.15	3.60
24.0	6.9	4.04
32.0 (halfspace)	7.8	4.56

Table C1. Southern Great Basin P and S velocity model. Sea level = 0.0 km.

The values of test variables employed in HYPO71 are given in table C2 below.

TEST(1) = 0.1 sec	TEST(2) = 30.0 km	TEST(3) = 0.5
TEST(4) = 0.05 km	TEST(5) = 5.0 km	TEST(6) = 1.0
TEST(7) = -1.276	TEST(8) = 1.666	TEST(9) = 0.00227
TEST(10) = 100.0 km	TEST(11) = 8.	TEST(12) = 0.5
TEST(13) = 1.0 km	TEST(14) = -1.2 km	TEST(15) = 999
TEST(16) = 0.852	TEST(17) = -1.766	

Table C2. HYPO71 test variables as discussed in Lee and Lahr (1975).

Pertinent control card options are ZTR = 5.0 km, XNEAR = 10.0 km, XFAR = 220 km, and POS = 1.71.

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Appendix D

Horizontal component seismometer electronics and calibrations

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Horizontal component seismometer electronics and calibrations

In 1984 one north-south component seismometer was installed at stations GMN, PGE, JON, GMR, and PRN. North-south and east-west component seismometers were also installed at YMT4 and LSM. The names of these stations are GMNH, PGEH, JONH, GMRH, PRNH, YM4N, YM4E, LSMN, and LSME, respectively. Station and telemetry electronics for these instruments are similar to the vertical component electronics discussed in Rogers and others (1987, appendix A). A notable difference is that almost all horizontal instruments are Mark L4C seismometers, and their output is input into Teledyne-Geotech 4250 amplifier/VCOs. The three component station at Little Skull Mountain (LSM) has S13 seismometers. A comparison of the amplification of the L4C horizontal seismometer system with Teledyne Geotech amplifier/VCO and discriminator and the L4C vertical seismometer with Tricom amplifier/VCO and discriminator is shown in figure D1.

Since the vertical component seismometers are higher gain than the horizontal components, we rely on the horizontal stations for magnitude estimates when the rest of the network is overdriven. Also, M_L calculations normally proceed from scaled *horizontal* ground motion; thus the vertical instrument amplitudes must be converted to equivalent horizontal motion using a fixed amplification factor (we use $h = 1.75v$; see Rogers and others, 1987). The horizontal instrument peak amplitude data are therefore useful to verify this factor. Perhaps the following detailed information on horizontal station calibrations is therefore warranted. Field calibrations are performed at the stations every six months or as needed. A field calibration entails applying a known current into a seismometer calibration coil at fixed frequencies, and setting the amplifier/VCO gain so that none of the signals are overdriven (output peak voltage $\leq$ 5 volts). The signal is monitored on the PDP 11/34 computer at Golden, Colorado, where the digital output ("counts") is reduced to equivalent ground motion. This computed ground motion is compared with the expected ground motion

$$y = \frac{i_e G_c}{M\omega^2},$$

where y =peak-to-peak ground displacement (m), i_e = peak-to-peak current input to calibration coil (amps), G_c = calibration coil constant (newtons/amp), M = transducer mass (kg), and ω = angular frequency of oscillator (radians/sec). If a divergence of > 20% between computed and expected ground motion occurs in the 2 to 10 hz range, the electronics technicians are notified so that further action may be taken. Although 20% may be considered a large error for magnitude calculations, such an error represents a M_L variation of $\approx$ 0.10 units, a small difference. Furthermore, the calculation of expected ground motion involves the factor G_c, which may vary by 20% to 30% from the nominal value (0.439) used when no other information is available for a particular L4C seismometer. Table D1 shows percent variation in computed ground motion at various stations using manufacturer's reported values for M and G_c where available, or nominal values

for $M = 0.98$ and $G_c = 0.439$ otherwise. The filters used to reduce digital counts to ground motion are discussed in Rogers and others (1987, Appendix A). The 10 hz calibrationz may be a trifle low due to a calibration coil-main coil interaction (inductance), rather than to errors in computed amplification of ground motion. (This interaction is even more pronounced at 20 hz, to the extent that the digital response at that frequency appears 50% lower than expected.)

	Frequency (hz)				
	0.1	1.0	2.0	5.0	10.0
STATION	% Variation				
YM4E	-4.0	-4.7	-3.9	-9.6	-19.4
YM4N	5.8	-10.7	-10.4	-13.2	-22.9
JONH	6.4	-1.5	0.8	2.5	-4.9
GMNH	13.0	11.8	16.1	14.5	7.1
PGEH	-12.0	-7.9	-4.4	-5.6	-15.5
PRNH	9.1	3.0	7.7	6.6	-4.7

Table D1. Percent difference between computed and expected ground motion (Difference(%)= $100 \times \frac{\text{Computed}-\text{Expected}}{\text{Expected}}$). These calibrations were performed in late 1986 and early 1987. There is no observed ground motion during a field calibration, so the tests are indirect.

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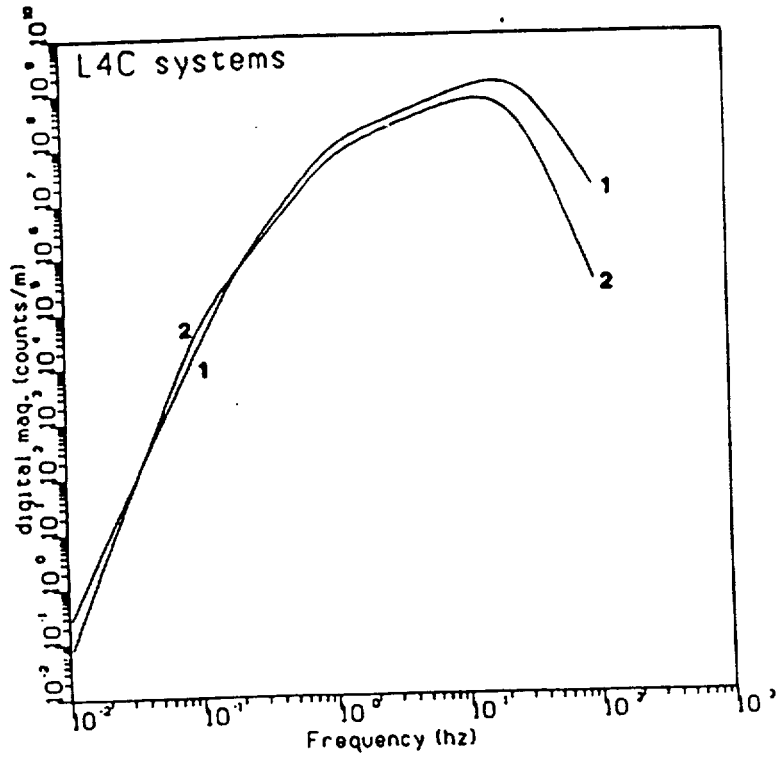

Figure D1. – System amplification of a L4C horizontal seismometer input into a Teledyne-Geotech 4250 amplifier (curve 1) compared to that of a L4C vertical seismometer input into a Tricom 649 amplifier (curve 2), expressed as digital amplification of ground motion (digital counts per meter ground displacement). The seismometer of curve 1 has natural frequency $f_n = 1.0$ hz, $h = 0.64$ damping, and effective generator constant $G_{le} = 176.7$ volt sec/meter, and that of curve 2 has $f_n = 1.0$ hz, $h = 0.71$, and $G_{le} = 126.5$. These are measured values for particular L4C seismometers. The G_{le}s differ because we use different shunt resistors for the two systems. Both amplifiers have 48 dB nominal gain.

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SOUTHERN GREAT BASIN SEISMOLOGICAL DATA REPORT FOR 1980 AND PRELIMINARY DATA ANALYSIS

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OPEN-FILE REPORT 81-1086

1981

PREPARED BY THE U.S. GEOLOGICAL SURVEY
FOR THE
NEVADA OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
INTERAGENCY AGREEMENT DE-A108-78ET44802

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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Southern Great Basin Seismological Data Report for 1980 and Preliminary Data Analysis

By

A. M. Rogers, S. C. Harmsen, and W. J. Carr

Open-File Report 81--1086

1981

Prepared by the U.S. Geological Survey
for the
Nevada Operations Office
U.S. Department of Energy
(Interagency Agreement DE-AI08-78ET44802)

The use of brand names is for descriptive purposes only and does not constitute endorsement by the U.S. Geological Survey

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ABSTRACT

Earthquake data for the calendar year 1980 are presented for earthquakes occurring within and adjacent to the southern Nevada seismograph network. Locations, magnitudes, and selected focal mechanisms for these events and events from prior years of network operation are presented and discussed in relation to the geologic framework of the region. The principal results are that (1) earthquakes concentrate in fault zones having a northeast orientation, (2) fault zones having a northwest orientation are quiescent or nearly so, and (3) no earthquakes have been detected closer than 12 km to the Yucca Mountain nuclear waste repository study area.

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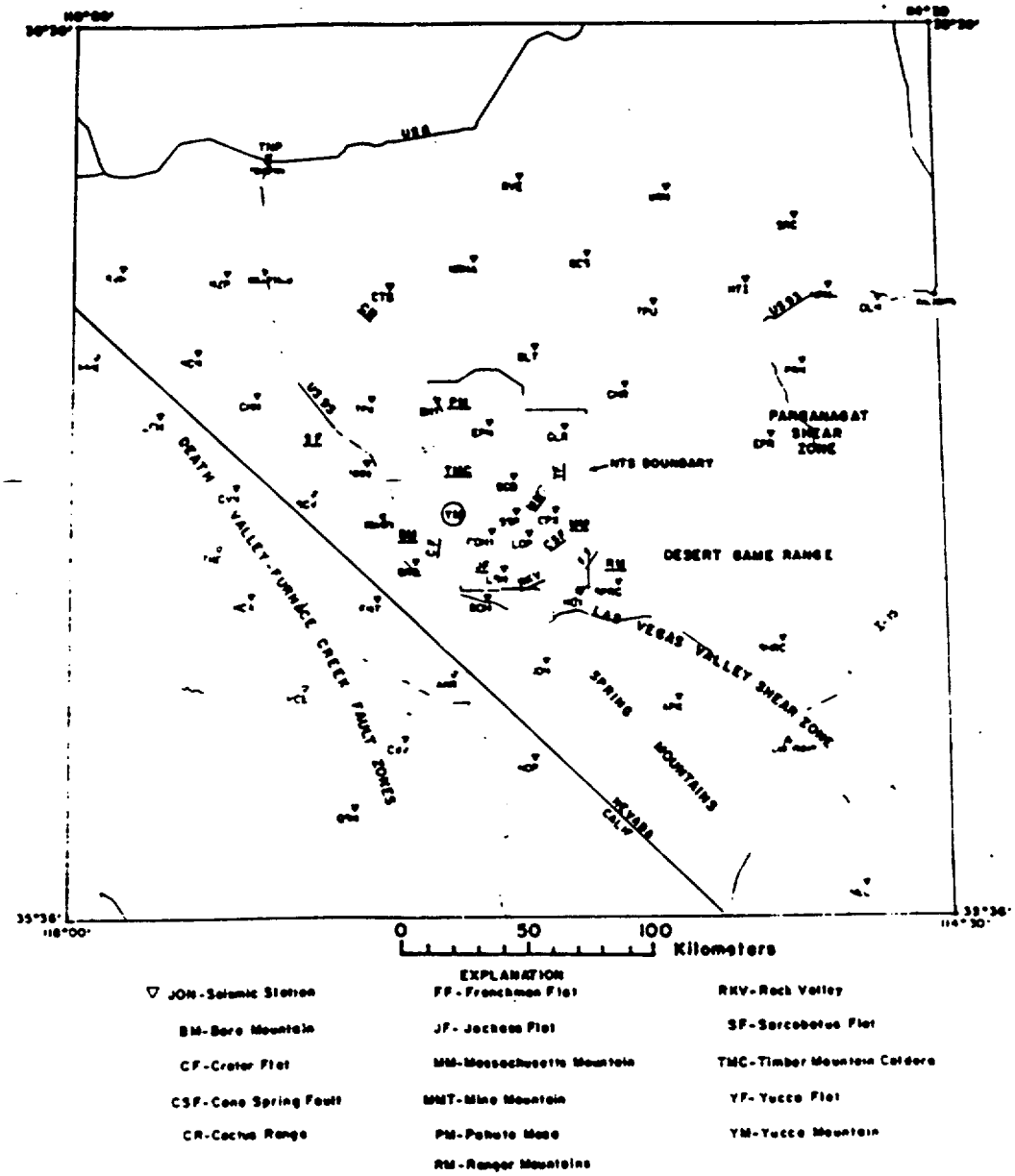

Figure 1.--Locations of seismograph stations in the Southern Great Basin are indicated by triangles. The locations of the proposed nuclear waste storage facility is indicted by the letters YM (Yucca Mountain). The generalized locations of other geographic features are also shown: BM-Bare Mountain; CF-Crater Flat; FF-Frenchman Flat; JF-Jackass Flat; MM-Mine Mountain; RM-Ranger Mountain; SKM-Skull Mountain; TMC-Timber Mountain Cauldera; YF-Yucca Flat.

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data were used in this report from stations operated by Sandia Laboratories and the University of Nevada. The Sandia stations at Nelson, Nevada, and Leeds, Utah (NEL and LEE), were operated by personnel at the NTS. The University of Nevada station at Tonopah, Nevada (TNP), is operated by personnel from the University of Nevada Seismological Laboratory at Reno, Nevada.

Financial support of the Southern Great Basin seismicity study is provided by the U.S. Department of Energy's Nevada nuclear waste isolation program.

We acknowledge the assistance of Jean DeWoody, whose drafting work and film reading were essential to the completion of the report.

INSTRUMENTATION

The network is composed of short-period vertical component seismometers (Mark Products L-4C and Geotech S-13) having a 1 Hz natural frequency. Seismometer outputs are amplified and frequency modulated by a Tricom model 642 amp-VCO having a dynamic range of ±2 db and relayed by a Rapco 810-038 transmitter to a central data collection point from which the data are sent by telephone data channel to Golden, Colorado. Power at each station is supplied by a solar panel (Spectrolab LEC 12V-1.5A) with battery backup. Demodulation of the FM signals is accomplished by Tricom model 643 discriminators whose output serves as input to Develocorder film recorders. A common time base (WWVB) is also recorded on each film. Three film recorders are required to accommodate the data from the network. The magnification of this system is shown on figure 3, where the curves correspond to the type of seismometer employed. At about 15 Hz the response peak is produced by the roll-off in response of the Develocorder galvanometers. From 15 Hz to 30 Hz the response decreases at 6 db/octave, and above 30 Hz the response decreases at 18 db/octave. These response curves are drawn for a nominal amplifier gain setting of 48 db. The actual operating gains and seismometer types at each station are given in appendix A. The gains are normally 84 to 108 db depending on the background noise at each site.

Two sets of 3-component seismometers are also operated at the surface and subsurface of drill hole UE25a-3 (Stations CDH-1, CDH-5). The downhole seismometer is at 1055 m elevation and the surface instrument is at 1387 m. These seismometers are Mark Product L-1-3DS with a 4.5 Hz natural frequency. Data from one horizontal and one vertical seismometer are recorded continuously with the network data. The six uphole and downhole components have been intermittently recorded on magnetic tape as part of an experiment to study the differences between surface and subsurface ground motion.

Station calibrations are conducted irregularly at present, but average every 3 months. The calibration procedure is conducted in two steps. First, the electronics are checked separately by connecting an oscillator of known voltage across the amplifier input and comparing this voltage with the output of the discriminator in Golden. The input and output voltage should be equal, and adjustments are performed as necessary to maintain proper voltage levels. In the second step, a pulse of known voltage and sign is applied across the seismometer calibration coils. This procedure permits a check of station polarity and, in principle, permits an absolute system calibration; at

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present, however, only station polarities and relative changes in station magnification are checked. Records of station visits and services performed are kept in Golden and Las Vegas.

MAGNITUDE DETERMINATION

Table 1 shows a comparison of magnitudes determined from the coda duration using the equation of Lee and others (1972) (see appendix B, this report) with Richter magnitudes reported by the University of California at Berkeley, California Institute of Technology at Pasadena and the U.S. Geological Survey. This comparison was possible for earthquakes in the magnitude 3 to 4 range and shows that duration magnitude is adequate for events of this size. In the future this comparison will be conducted at lower magnitude ranges by computing Richter magnitude from the network earthquake amplitudes.

EARTHQUAKE DATA AND ANALYSIS

Earthquakes in this study were located using the HYPO71 computer program (Lee and Lahr, 1975) with program parameters and crustal model as given in appendix B. Both P- and S-wave phase readings were employed when an improved epicentral solution resulted. The P/S velocity ratio of 1.75 used is supported by other data from this region. During the monitoring period, 762 earthquakes were located, and of these, 356 occurred during 1980 (appendix C). The magnitudes of the events range from 0 to 4.0, and the depths of well-located earthquakes range from surface focus to 15-20 km (fig. 4). More than half of the earthquakes have standard errors in the horizontal location of less than 1.0 km (fig. 5), and the same proportion have a standard error in the depth of less than 2.5 km (fig. 6). The overall quality (Q) of the earthquake locations, as defined in appendix D, is as follows:

Q	Number	Percent
A	5	1.4
B	89	25.0
C	212	59.6
D	50	14.0
TOTAL	356	100.0

Improvement in the accuracy of locations is expected as the quality of data becomes sufficient to perform simultaneous velocity inversion or station corrections and earthquake locations.

Recent seismicity located by this network in the Southern Great Basin is depicted on figures 7-10. Several important features of the recent seismicity are apparent (figs. 7, 8). First, certain areas of the NTS are the principal sources of earthquake activity within the network. These areas include Pahute Mesa, Yucca Flat, the Frenchman Flat area between Massachusetts Mountain and Ranger Mountain, Jackass Flats, and the Rock Valley area (fig. 1). Second, outside of the NTS area seismicity is presently more diffuse, with the exception of a swarm of several hundred earthquakes that occurred from July to December 1979 near the Pahranagat shear zone about 80 km east of NTS (fig. 9) Third, there are zones of relative quiescence in various parts of the NTS region; included in these relatively quiet areas are Yucca Mountain, Timber Mountain Caldera, parts of the Furnace Creek and Death Valley fault zones, the

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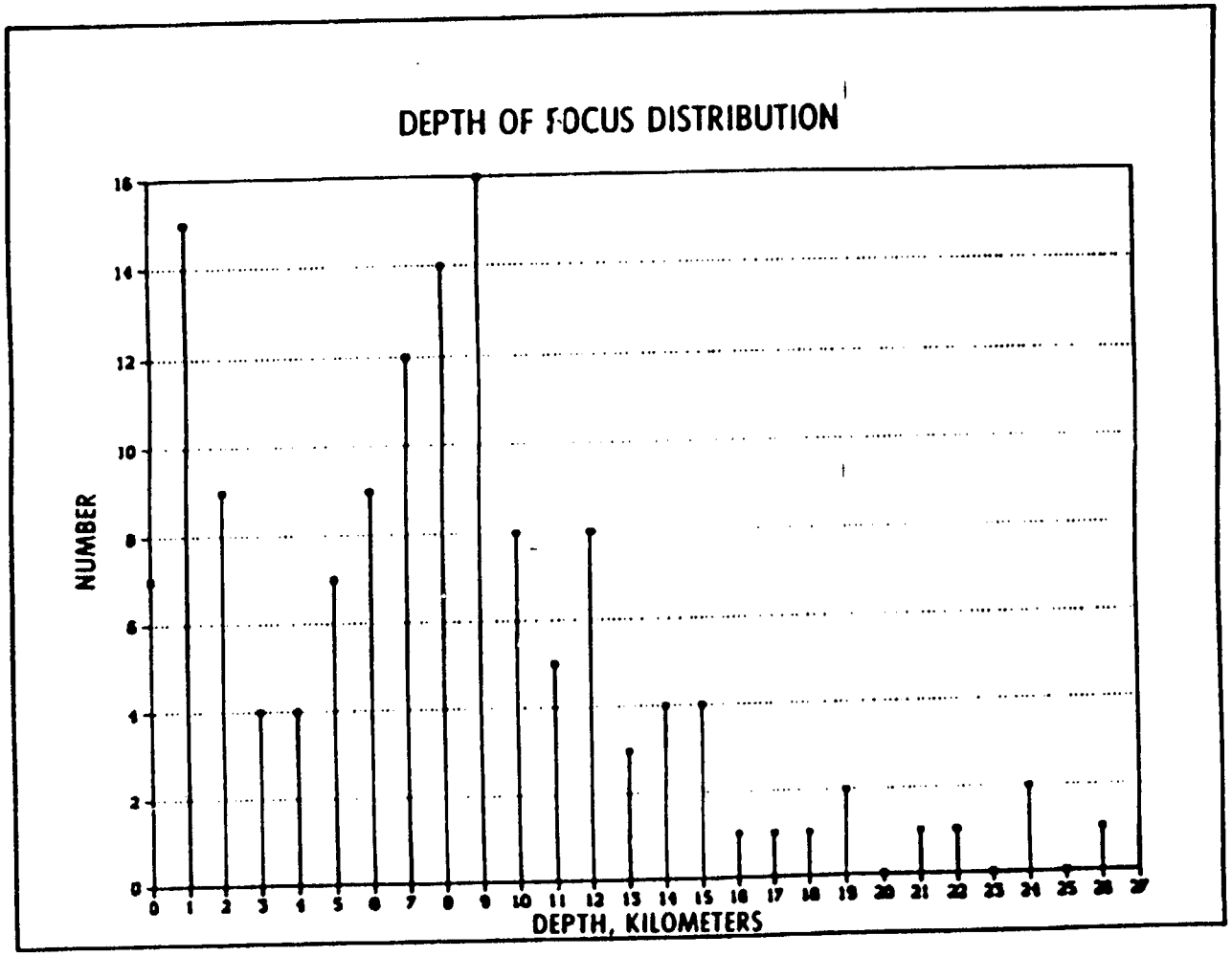

Figure 4.--Depth-of-focus histogram for earthquakes with A and B quality locations (1980).

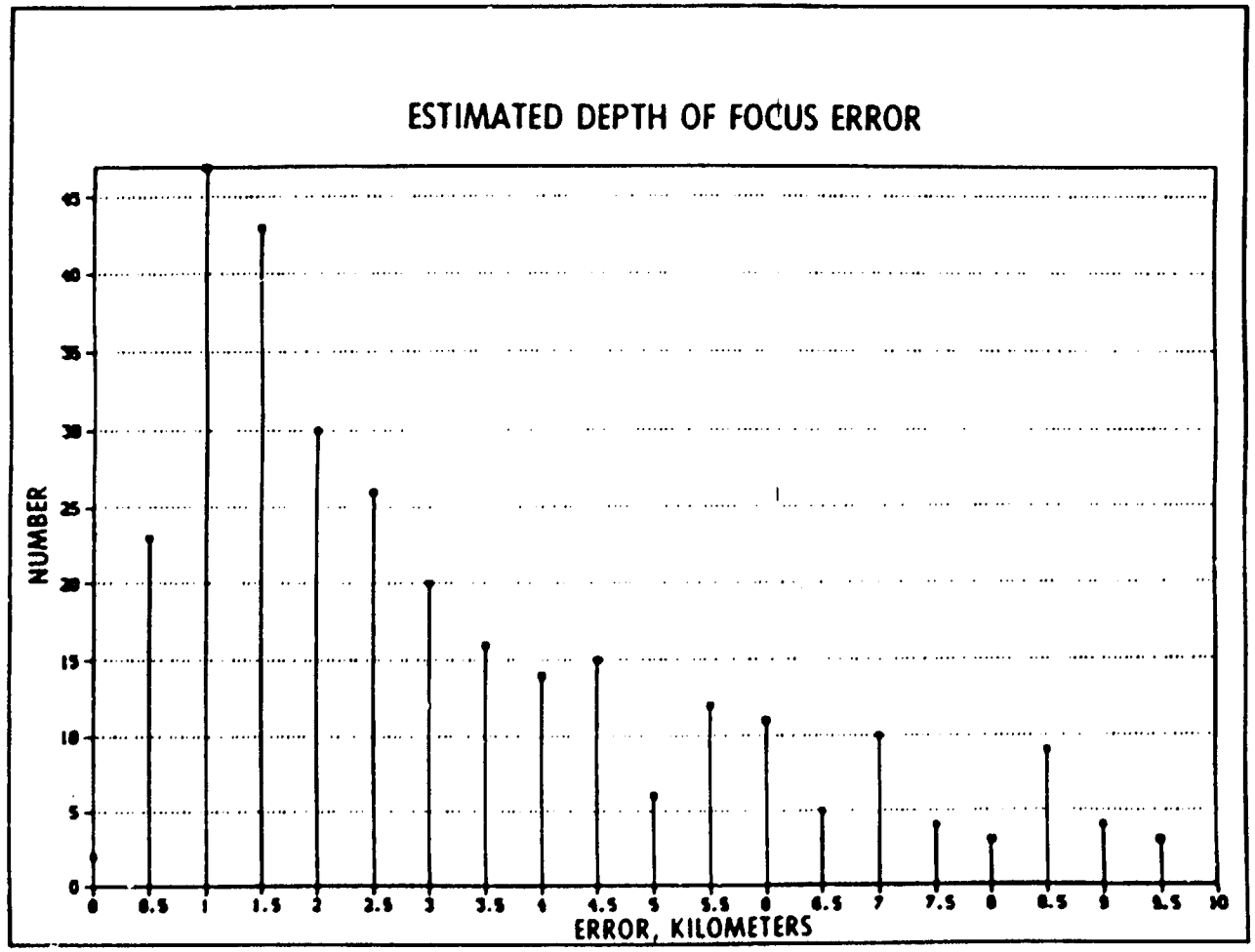

Figure 6.--Depth-error historgram for earthquakes with A, B, and C quality locations that do not have restrained depths (1980).

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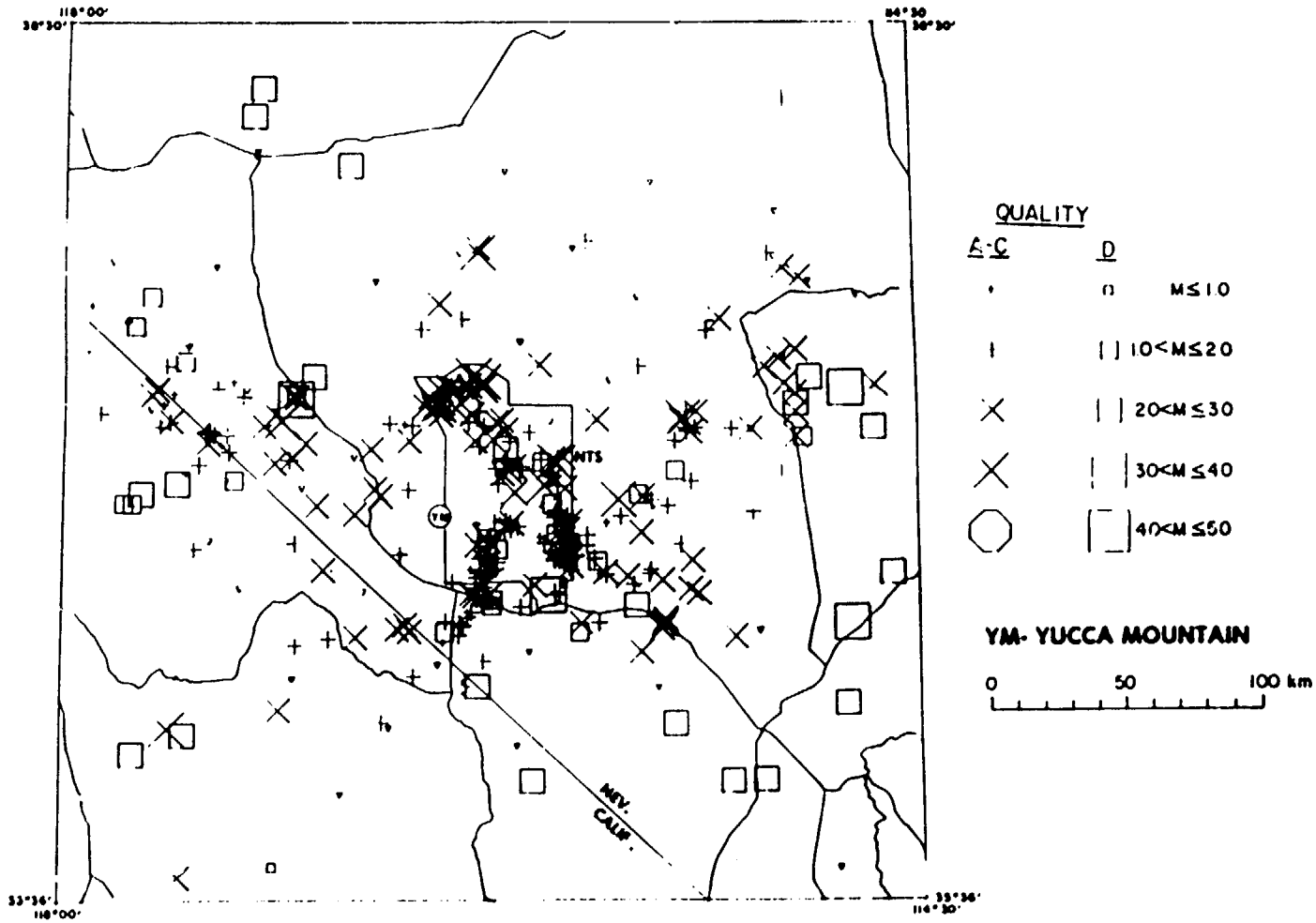

Figure 8.--SGB epicenters from January 1, 1980 through December 31, 1980 plotted with epicenter quality and magnitude as parameters. The location of the proposed nuclear waste storage facility is indicated by the letters YM (Yucca Mountain).

9 0 8 1 4 1 3 0 1 9 9

Spring Mountains, the Las Vegas Valley zone, most of the Desert Game Range, and the Cactus Range area southeast of Tonopah. A large area of roughly 6000 km^2 that is bounded by stations RVE, BLT, GMR, MTI, SRG, and WRN is relatively quiescent it contained about 6-7 earthquakes during the monitoring period. A large area between Goldfield and Tonopah appears to be aseismic, although station density there is low. Fourth, the existence of the postulated east-west seismic belt appears to be supported by the network data, although its boundaries are poorly defined, especially to the west.

The earthquake swarm (fig. 9) that occurred in the area of the Pahranagat shear zone in 1979 is a good example of bursts of seismic activity of a type noted elsewhere in the Southern Great Basin. The main shock, magnitude about 3.9, occurred on Aug. 12; it was followed by five other events ranging from 3.2 to 3.7 magnitude during the next 48 hours. The main shock was preceded by about one-half hour by a magnitude 2.9 event and by four other smaller events during the previous month. During the 48 hours when the five large shocks occurred, smaller events occurred at the rate of about one every one-half to 2 hours. The rate then decreased somewhat until about Aug. 20, after which activity was more sporadic during the rest of the year. Relatively little activity was noted in the Pahranagat area during 1980. As shown on figure 9, the larger events were essentially confined to a structural block between two strands of the northeast-trending Pahranagat shear-zone system. The smaller events, though tending to cluster near and northeast of the larger events, were more widely diffused within the faulted volcanic terrain. No surface faulting of Holocene age, and probably none of middle Quaternary age, is present in the Pahranagat area (Ekren and others, 1977). However, the linear aspect of the topography at many places in the area suggests that fault movement affecting surface rocks could have occurred during early Quaternary time, or that relatively continuous small structural disturbances have resulted in preserving the lineaments through very small incremental movements. The activity in the Pahranagat area is reminiscent, though more swarm-like, of earthquakes that have occurred near the Yucca-Frenchman shear zone (fig. 9) at NTS. Some of this activity has been described by Carr (1974) and Fischer and others (1972). At NTS this activity seems to be concentrated where northeast-striking shear zones intersect the northwest-trending Yucca-Frenchman shear and flexure zone; activity is much lower on the northeast side of that zone where fault trends are oriented north-northwesterly instead of northeast. In Rock Valley, in southern NTS, detailed study of a strand of the northeast-trending Rock Valley fault zone has shown (Szabo and others, 1981, p. 19, 21, fig. 9) the likelihood that relatively small earthquakes may have caused surface movements of a few inches to a foot or so at a time, and that the small scarps formed may have been obliterated in a few thousand years. The same process may be occurring in the Pahranagat shear zone and on other northeast-trending fault zones in the Southern Great Basin.

Other examples of swarm-type activity have been noted in the region in the past, but the history of the activity is not as well documented as is the case with the new seismic net. Some examples of precurrent network swarms include activity on a portion of the Rock Valley fault system near U.S. Highway 95 in June 1975 (Rogers and others, 1977, p. 61), and in the Pahroc area about 30 miles west of Caliente (Bayer, 1972, fig. 5). Seismic activity in the Pahroc area has diminished greatly; that in southern Rock Valley continues, but at a lower rate.

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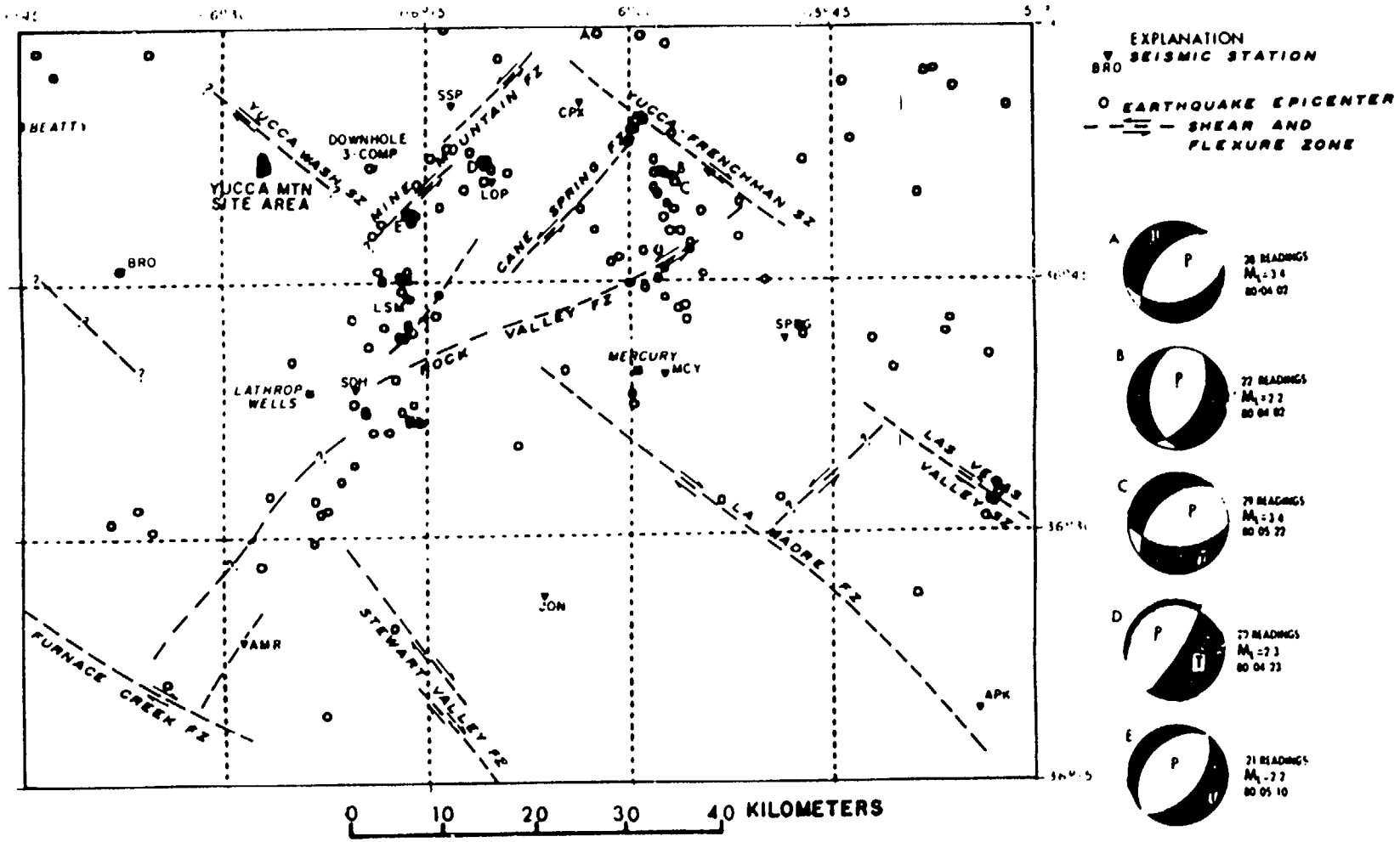

Figure 10.--A, B, and C quality epicenters near the Yucca Mountain site area.

9 0 8 1 4 0 2 0 1

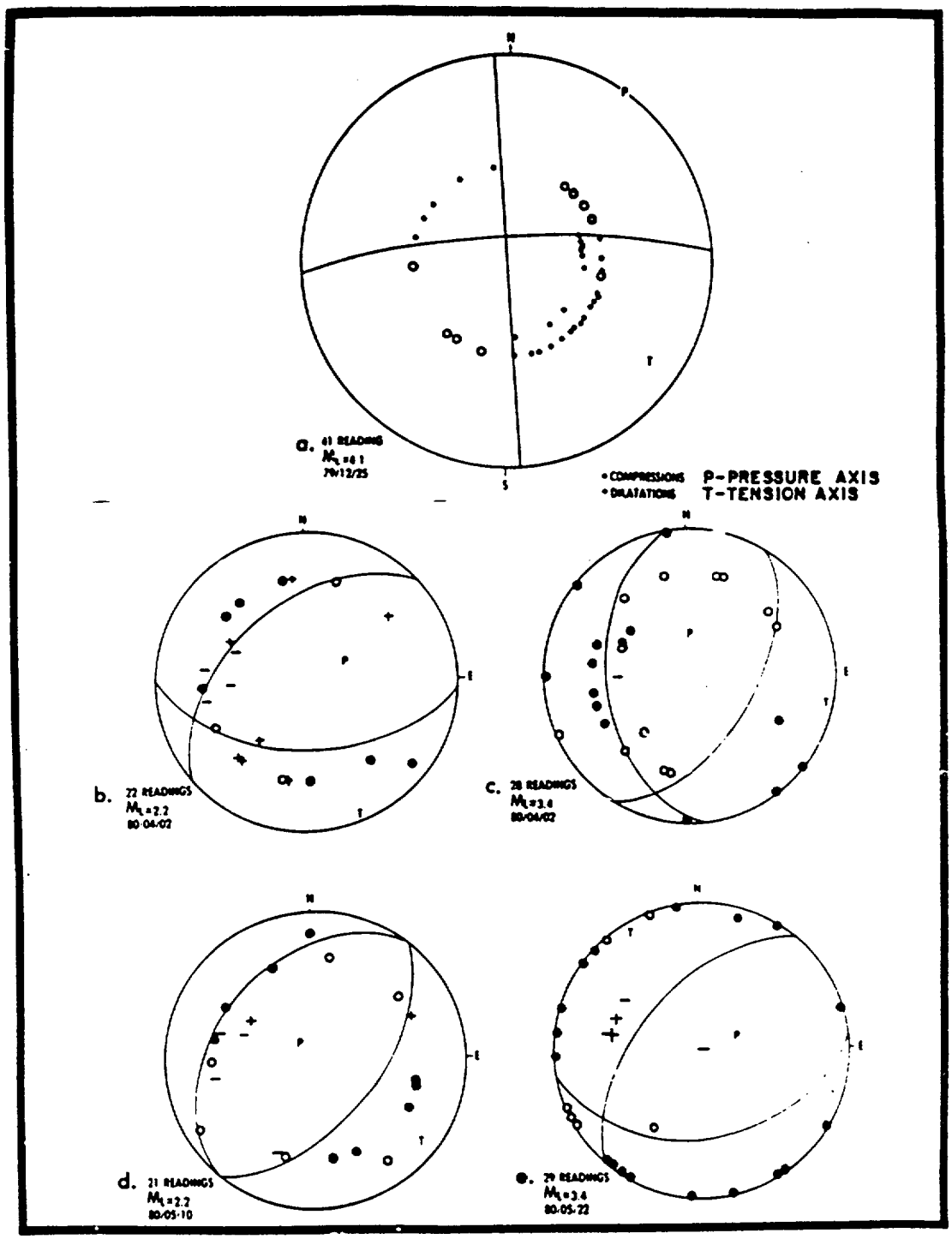

Figure 12.--First motion directions and inferred local mechanisms for selected earthquakes.

have suggested that magnitude may be limited upward on northeast-trending faults in a portion of the Nevada-California seismic zone (fig. 2).

The seismic hazard at Yucca Mountain is ambiguous because, although no earthquakes have been detected there, faults do exist on and adjacent to Yucca Mountain that have north-south orientation and, therefore, should have potential for slip. Several questions remain to be answered. Are the Yucca Mountain faults unstressed because of previous prehistoric slip or the existence of a shear stress shadow zone due to slip on nearby faults? Are the Yucca Mountain faults less active because of some undetected differences in basement rock or mechanical properties relative to surrounding faults? Do buried intrusive rocks associated with several caldera and volcanic centers around Yucca Mountain somehow act as a buttress or lower the stress acting on Yucca Mountain faults? Continued analysis of data collected by the seismic network, studies of earthquake source parameters, seismic recurrence studies, studies of fault stress patterns, and other related geologic and geophysical studies will provide a better basis for answering these questions.

SUMMARY

1) Three hundred and fifty-six earthquakes have been located during the 1980 calendar year. None of these events occurred closer than 12 km to Yucca Mountain, which is being explored for a nuclear waste repository.
2) The magnicudes of earthquakes within the network recorded to date varies between 0 and 4.0. A significant number of events below the magnitude 1.5-2.0 level, however, could not be located.
3) The earthquakes are occurring on faults of northeast to north orientation.
4) Several major fault zones with a northwest orientation are quiescent or nearly so: Death Valley-Furnace Creek fault zone, Las Vegas Valley shear zone, and faults in the Spring Mountains. Large portions of the Desert Game Range and Southern Timber Mountain caldera and an area northwest of the NTS are also relatively quiescent.

9 0 8 1 4 0 2 0 3

Appendix A: Station Codes, Location, Instrumentation, and Polarity Reversals

STATION CODE

CODE	STATION	PERIOD OF OPERATION (DAY/MONTH/YEAR)	LATITUDE (DEG MINUTES)	LONGITUDE (DEG MINUTES)	ELEVATION (METERS)	SEISMOMETER MODEL	GAIN (DB)
ARG	Anargosa Cal.	26/07/79-present	36 23.86 N	116 28.45 W	720	L-4C	84
APE	Angels Peak Nev.	15/06/75-present	36 19.17 N	115 34.46 W	2688	S-13 to 21/3/81 L-4C 21/3/81-pr.	84
BBG	Big Bullfrog Nev.	23/01/79-present	37 02.27 N	116 13.66 W	1720	L-4C	84
BLT	Bellfire Ranges Nev.	30/05/79-present	37 27.68 N	116 08.09 W	1320	L-4C	84
BMT	Black Mountains Nev.	26/02/80-present	37 17.02 N	116 32.02 W	1920	L-4C	84
BOO	Bare Mountains Nev.	28/11/78-present	36 45.76 N	116 37.32 W	920	L-4C	84
CDH1	Colson Hills Nev.	01/02/80-present	36 59.62 N	116 19.05 W	1387	L-4-30S (vert.)	90
CDH5	Colson Hills Nev.	01/02/80-present	36 59.62 N	116 19.05 W	1055	L-4-30S (horiz.)	108
CP4	CP-4.Nev.	--/--/77-01/03/80*	36 55.73 N	116 03.38 W	1285	MEC-21 to 5/8/80 L-4C 5/8/80-pr.	84
CTS	Cactus Peak Nev.	26/04/79-present	37 38.48 N	116 43.54 W	1890	L-4C	84
DLM	Delamar Mountains Nev.	08/06/78-present*	37 36.35 N	114 44.33 W	1730	L-4C	84
EPN	Eleo Peak Nev.	02/09/75-present	37 12.85 N	116 19.42 W	2285	S-13 to 25/4/80 L-4C 25/4/80-pr.	84
EPR	East Pahranagat Rge Nev	23/01/79-present*	37 18.12 N	115 11.19 W	1300	L-4C	84
FMT	Funeral Mountains Cal.	28/11/78-present	36 38.38 N	116 46.73 W	1025	L-4C	84
GLP	Green Lake Peak Nev.	20/11/75-present*	37 11.96 N	114 01.06 W	1635	L-4C	84
GMN	Gold Mountains Nev.	13/07/79-present*	37 18.01 N	117 15.18 W	2155	L-4C	84
GNR	Groom Ranges Nev.	23/01/79-present	37 20.03 N	115 46.27 W	1580	L-4C	84
GOH	Grubstake Cal.	28/11/78-present	37 00.09 N	117 20.35 W	1190	L-4C	84
GOV	Greenwater Valley Cal.	26/07/78-present	36 11.28 N	116 40.24 W	1560	L-4C	84
JOH	Johnson Nev.	26/07/78-present*	36 26.39 N	116 06.18 W	920	L-4C	84
KRN	Kawich Ranges Nev.	30/05/79-23/06/80	37 42.37 N	116 20.07 W	2570	L-4C	84
KRN2	Kawich Ranges Nev.	23/06/80-present	37 45.00 N	116 22.83 W	1980	L-4C	84
LCR	Lost Chance Ranges Cal.	13/07/79-present*	37 14.08 N	117 38.84 W	1455	L-4C	84
LEF	Leeds Utah	01/01/71-31/06/80	37 14.58 N	113 22.60 W	1067	Benioff	
LOP	Lookout Peak Nev.	23/01/79-present	36 51.25 N	116 10.05 W	1695	L-4C	84
LSP	Little Skull Mtn Nev.	13/12/79-present	36 44.34 N	116 16.31 W	1160	S-13	84
LSM	Little Skull Mtn Nev.	19/02/79-13/12/79	36 45.21 N	116 15.57 W	1070	L-4C	84
MCA	Marble Canyon Cal.	23/01/79-present	36 38.89 N	117 14.85 W	300	L-4C	84
MCE	Mercury Nev.	15/06/77-27/03/80	36 39.37 N	115 59.45 W	1160	S-13	84
MCF	Mercury Nev.	07/03/80-present	36 39.70 N	115 57.73 W	1285	S-13	84
MCM	Mercury Mountains Nev.	13/07/79-present*	37 26.47 N	117 29.79 W	2100	L-4C	84

* This station location has been found to be incorrect. Correction will be made in the data report for 1981.

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•POLARITY REVERSALS

CODE	STATION	PERIOD OF REVERSE POLARITY (DAY/MONTH/YEAR)
CPX	CP-1, Nev.	5/8/80 to 13/12/80
DLM	Delamar Mts., Nev.	28/6/79 to 29/8/79
EPN	Echo Peak, Nev.	1/11/78 to 01/05/80
EPR	East Pahranagat Range, Nev	10/12/79 to 20/2/80
GLR	Groom Lake Road, Nev.	1/11/78 to 22/2/79
GMN	Gold Mountain, Nev.	28/6/79 to 29/8/79; also 5/8/80 to 17/12/80
JON	Jonnies, Nev.	1/11/78 to 22/2/79
LCH	Last Chance Range, Nev.	28/6/79 to 29/8/79
MGM	Magruder Mountain, Nev.	28/6/79 to 29/8/79
MTI	Mount Irish, Nev.	28/6/79 to 29/8/79
MZP	Montezuma Peak, Nev.	28/6/79 to 29/8/79
NPN	North Pahroc Range, Nev.	28/6/79 to 29/8/79
PPK	Piper Mountain, Cal.	28/6/79 to 29/8/79
PRN	Pahroc Range, Nev.	10/12/79 to 20/2/80
QCS	Queen City Summit, Nev.	28/6/79 to 29/8/79
QSM	Queen of Sheba Mine, Nev.	28/6/79 to 29/8/79
RVE	Reveille Range, Nev.	28/6/79 to 29/8/79
SRG	Seaman Range, Nev.	28/6/79 to 29/8/79
SSP	Shoshone Peak, Nev.	28/6/79 to 01/06/80
SVP	Silver Peak Range, Nev.	28/6/79 to 29/8/79
TPK	Tolicha Peak, Nev.	11/06/79 to 29/8/79
TPU	Tempiute Mountain, Nev.	28/6/79 to 29/8/79
WAN	Worthington Mts., Nev.	28/6/79 to 29/8/79

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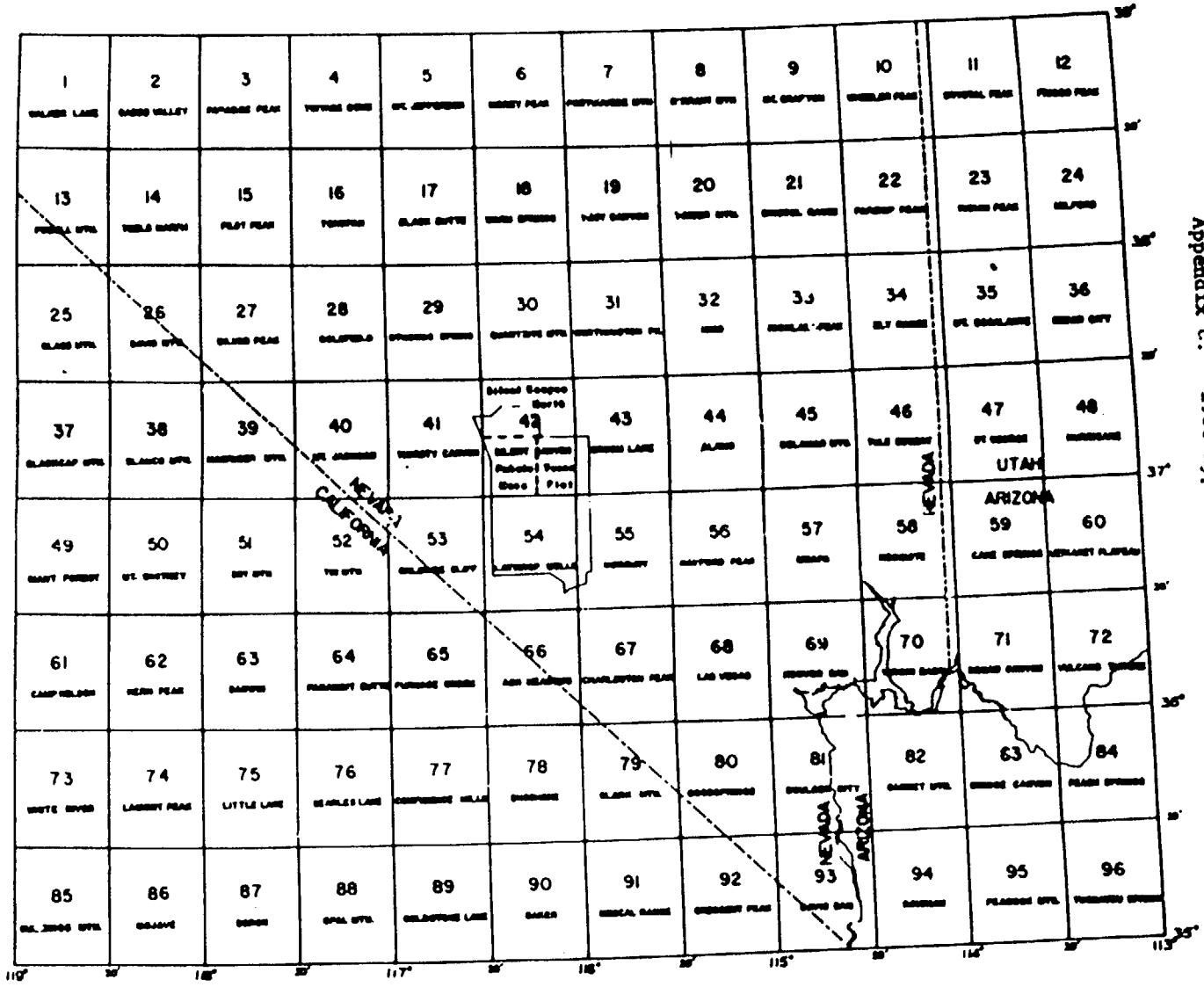

Figure C1.Geographic regions used to identify earthquake locations, appendix C.

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26	3 7 10.79	36.72 N	116.24 W	5.1 F	1.6	LATHROP WELLS
26	3 27 52.12	36.49 N	116.39 W	23.7 F	1.5	ASH MEADOWS
28	17 22 21.39	37.22 N	117.85 W	13.6 F	1.6	MAGRUDER MOUNTAIN
28	18 4 1.63	36.73 N	116.27 W	2.1 F	1.9	LATHROP WELLS
30	0 33 5.53	37.16 N	117.43 W	7.7 F	1.3	MT. JACKSON
30	9 2 29.46	36.79 N	115.86 W	7.7 F	1.3	MERCURY
30	11 31 7.47	36.49 N	115.26 W	12.3 F	2.4	LAS VEGAS
30	14 26 32.66	36.42 N	116.28 W	7.6 F	1.4	LATHROP WELLS
31	14 20 48.27	37.28 N	117.64 W	1.0 F	2.4	MAGRUDER MOUNTAIN
FEB 01	15 47 49.59	37.57 N	117.89 W	1.6 F	1.0	SILVER PEAK
02	4 49 35.59	37.16 N	117.43 W	13.1 F	1.8	MT. JACKSON
02	7 37 9.77	36.82 N	116.23 W	9.4 F	1.0	LATHROP WELLS
04	5 56 34.14	36.59 N	116.26 W	6.7 F	1.3	LATHROP WELLS
04	14 5 54.79	37.17 N	115.46 W	9.3 F	1.9	ALAMO
04	16 21 18.68	36.63 N	116.33 W	2.3 F	2.2	LATHROP WELLS
05	4 36 15.08	37.07 N	116.20 W	7.9 F	1.2	SILENT CANYON - YUCCA FLAT
06	5 56 15.97	37.18 N	116.58 W	10.0 F	1.2	THIRSTY CANYON
06	6 49 16.34	37.19 N	116.61 W	20.7 F	0.8	THIRSTY CANYON
06	9 0 55.46	36.66 N	116.29 W	0.6 F	1.8	LATHROP WELLS
06	11 49 14.86	36.62 N	116.32 W	1.3 F	1.2	LATHROP WELLS
17	2 42 24.53	37.14 N	116.10 W	11.1 F	1.1	SILENT CANYON - YUCCA FLAT
19	23 42 50.66	37.39 N	117.51 W	23.9 F	1.3	MAGRUDER MOUNTAIN
20	1 41 32.91	37.74 N	115.10 W	21.0 F	1.3	MIKO
20	2 52 52.34	37.28 N	117.27 W	8.8 F	1.1	MT. JACKSON
21	4 44 18.52	36.92 N	117.75 W	17.7 F	2.0	DRY MOUNTAIN
21	4 52 0.85	36.92 N	117.72 W	1.6 F	1.6	DRY MOUNTAIN
22	3 37 52.71	37.38 N	115.65 W	10.5 F	1.9	GROOM LAKE
24	5 56 24.61	36.47 N	116.45 W	9.0 F	0.7	ASH MEADOWS
24	16 23 56.93	37.02 N	117.50 W	16.4 F	0.9	MAGRUDER MOUNTAIN
24	20 36 57.56	37.25 N	117.60 W	7.4 F	0.8	MAGRUDER MOUNTAIN
26	4 5 27.29	37.18 N	117.17 W	10.7 F	0.7	MT. JACKSON
28	12 27 18.82	36.78 N	117.47 W	8.3 F	1.7	TIN MOUNTAIN
28	19 3 48.17	37.18 N	117.19 W	7.2 F	2.2	MT. JACKSON

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03	23 47 9.66	37.04 N	116.19 W	6.0 F	2.3	SILENT CANYON - YUCCA FLAT
04	18 0 48.84	36.94 N	115.60 W	19.0 F	1.6	MERCURY
05	2 27 44.95	36.85 N	115.94 W	8.6 F	2.1	MERCURY
05	2 29 6.43	36.85 N	115.96 W	3.0 F	1.4	MERCURY
05	17 29 58.94	36.82 N	115.91 W	13.1 F	1.0	MERCURY
08	1 35 20.86	36.55 N	116.35 W	5.4 F	1.6	LATHROP WELLS
08	2 11 31.66	36.85 N	115.95 W	0.0 F	1.9	MERCURY
10	7 39 21.84	37.28 N	117.06 W	6.3 F	1.2	MT. JACKSON
11	9 48 1.29	36.98 N	116.39 W	5.0 D	1.7	CHLORIDE CLIFF
14	13 54 23.50	37.18 N	116.29 W	12.5 F	2.0	SILENT CANYON - PAHUTE MESA
14	16 55 4.66	37.16 N	117.42 W	4.9 F	1.2	MT. JACKSON
15	10 24 43.67	37.50 N	117.71 W	7.0 F	1.7	SILVER PEAK
15	12 42 51.95	36.53 N	115.89 W	5.0 D	2.3	MERCURY
15	12 44 55.55	36.82 N	115.94 W	10.0 F	1.6	MERCURY
15	21 30 2.10	36.91 N	115.99 W	0.0 F	1.6	MERCURY
16	11 25 35.88	37.21 N	115.47 W	1.7 F	3.3	ALAMO
16	21 45 27.76	37.21 N	115.48 W	0.1 F	2.3	ALAMO
21	2 27 39.35	37.30 N	116.35 W	2.9 F	2.4	SILENT CANYON - NORTH
23	4 8 40.82	36.87 N	116.18 W	3.4 F	2.3	LATHROP WELLS
23	5 24 30.13	36.82 N	116.26 W	2.4 F	1.9	LATHROP WELLS
23	16 45 20.07	37.30 N	117.38 W	6.0 F	1.6	MT. JACKSON
24	6 2 27.66	36.82 N	116.27 W	2.8 F	1.6	LATHROP WELLS
24	6 2 59.68	36.82 N	116.27 W	2.9 F	1.5	LATHROP WELLS
24	7 20 49.72	36.82 N	116.27 W	3.4 F	1.5	LATHROP WELLS
25	3 48 37.46	36.01 N	116.09 W	0.3 F	2.5	ASH MEADOWS
25	10 40 30.33	37.32 N	116.30 W	3.8 F	3.1	SILENT CANYON - NORTH
26	2 15 7.25	36.82 N	116.27 W	4.2 F	1.3	LATHROP WELLS
27	13 1 55.13	37.05 N	117.45 W	1.1 F	1.7	MT. JACKSON
29	4 12 47.91	36.83 N	115.86 W	8.1 F	1.5	MERCURY
29	17 53 31.79	36.82 N	116.27 W	3.4 F	1.3	LATHROP WELLS
30	9 33 59.44	36.64 N	116.00 W	12.4 F	1.7	MERCURY
MAY 02	7 38 28.30	36.82 N	116.27 W	3.6 F	1.4	LATHROP WELLS
03	10 31 18.71	36.46 N	117.06 W	14.6 F	1.7	PANAMINT BUTTE

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09	2 13 48.05	37.25 N	115.00 W	4.5 F	2.9	DELAMAR MOUNTAINS
09	15 5 50.64	36.85 N	116.18 W	11.9 F	1.4	LATHROP WELLS
11	13 22 4.54	36.74 N	116.28 W	5.0 D	2.1	LATHROP WELLS
11	13 26 9.66	36.76 N	116.28 W	8.4 F	1.2	LATHROP WELLS
11	13 37 58.35	36.75 N	116.27 W	7.1 F	1.7	LATHROP WELLS
11	14 53 1.66	36.75 N	116.28 W	7.8 F	1.3	LATHROP WELLS
11	15 10 21.77	37.70 N	115.04 W	0.5 F	2.2	NIKO
12	17 10 19.80	36.70 N	116.28 W	5.0 D	2.0	LATHROP WELLS
13	13 58 20.82	37.40 N	115.20 W	3.8 F	2.4	ALAMO
13	16 2 10.52	36.80 N	115.96 W	7.6 F	1.9	MERCURY
13	16 51 6.91	36.76 N	115.96 W	20.2 F	2.0	MERCURY
14	2 18 23.08	36.78 N	115.98 W	5.0 D	1.5	MERCURY
14	2 51 48.27	36.80 N	115.96 W	6.7 F	1.8	MERCURY
14	2 57 15.16	36.75 N	115.97 W	23.3 F	1.8	MERCURY
14	12 4 29.19	37.11 N	116.20 W	17.0 F	2.1	SILENT CANYON - YUCCA FLAT
14	12 12 42.13	37.09 N	116.19 W	1.6 F	1.7	SILENT CANYON - YUCCA FLAT
14	12 44 29.66	37.04 N	116.16 W	1.0 F	1.5	SILENT CANYON - YUCCA FLAT
14	16 42 50.21	36.80 N	115.95 W	9.6 F	1.3	MERCURY
15	12 3 20.98	36.73 N	115.96 W	26.0 F	1.1	MERCURY
15	14 23 33.58	36.79 N	115.93 W	13.7 F	1.2	MERCURY
15	23 16 16.39	36.89 N	116.82 W	4.0 F	2.6	CHLORIDE CLIFF
16	6 37 39.48	36.20 N	115.51 W	1.1 F	2.4	CHARLESTON PEAK
17	14 16 3.12	36.76 N	115.91 W	1.3 F	1.3	MERCURY
17	22 3 14.17	37.17 N	115.27 W	5.0 D	1.3	ALAMO
18	12 13 41.73	37.09 N	116.18 W	1.5 F	2.3	SILENT CANYON - YUCCA FLAT
18	15 18 52.62	36.75 N	116.30 W	10.9 F	1.2	LATHROP WELLS
18	15 39 43.85	36.76 N	116.33 W	7.3 F	1.0	LATHROP WELLS
19	10 1 46.27	36.87 N	116.18 W	9.5 F	1.0	LATHROP WELLS
19	21 49 34.21	36.90 N	115.18 W	12.8 F	1.8	HAYFORD PEAK
19	21 49 4.36	37.39 N	114.47 W	5.0 D	2.5	TULE DESERT
20	1 49 59.30	37.03 N	116.02 W	5.0 D	1.3	SILENT CANYON - YUCCA FLAT
20	9 7 54.80	37.02 N	116.01 W	14.3 F	1.8	SILENT CANYON - YUCCA FLAT

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09	2 21 21.90	36.54 N	116.39 W	1.4 F	1.6	LATHROP WELLS
09	2 21 40.57	36.62 N	116.27 W	9.7 F	1.5	LATHROP WELLS
11	8 14 29.97	37.15 N	117.39 W	12.2 F	1.3	MT. JACKSON
11	8 19 44.69	37.11 N	116.31 W	1.6 F	1.2	SILENT CANYON - PAHUTE MESA
12	4 53 13.94	36.49 N	116.81 W	0.2 F	2.1	FURNACE CREEK
14	8 20 27.36	36.33 N	116.24 W	1.8 F	1.7	ASH MEADOWS
15	8 59 59.92	36.20 N	116.70 W	5.0 D	1.6	FURNACE CREEK
15	18 15 37.34	36.01 N	115.27 W	0.3 F	2.8	LAS VEGAS
15	23 9 49.90	36.48 N	116.92 W	5.7 F	2.0	FURNACE CREEK
17	17 48 9.14	36.99 N	117.54 W	0.1 F	2.6	DRY MOUNTAIN
18	8 0 42.67	37.17 N	115.19 W	4.0 F	2.4	ALAMO
19	8 33 4.44	36.91 N	115.99 W	9.4 F	1.5	MERCURY
20	11 58 16.22	36.71 N	115.60 W	7.8 F	2.0	MERCURY
20	18 5 20.23	36.82 N	116.27 W	0.5 F	1.3	LATHROP WELLS
21	3 24 2.88	37.22 N	116.47 W	1.8 F	2.6	SILENT CANYON - NORTH
21	12 30 47.79	36.81 N	115.96 W	1.8 F	1.0	MERCURY
22	1 11 2.12	36.51 N	116.44 W	8.9 F	1.4	LATHROP WELLS
23	3 37 51.05	37.13 N	117.02 W	3.0 F	2.3	MT. JACKSON
24	10 34 23.72	36.77 N	116.02 W	9.7 F	0.9	LATHROP WELLS
24	11 40 9.15	36.88 N	116.22 W	5.0 D	1.0	LATHROP WELLS
24	23 7 2.35	36.63 N	116.00 W	9.0 F	1.7	MERCURY
25	8 7 48.75	37.31 N	116.44 W	10.4 F	2.0	SILENT CANYON - NORTH
25	8 9 30.03	37.31 N	116.44 W	11.8 F	1.9	SILENT CANYON - NORTH
25	8 32 35.88	37.31 N	116.44 W	8.7 F	1.9	SILENT CANYON - NORTH
25	9 27 4.38	37.31 N	116.43 W	11.6 F	2.5	SILENT CANYON - NORTH
25	13 32 25.71	37.31 N	116.44 W	14.6 F	1.8	SILENT CANYON - NORTH
25	15 12 22.09	37.31 N	116.44 W	10.3 F	1.7	SILENT CANYON - NORTH
26	1 0 10.17	37.31 N	116.44 W	13.6 F	1.7	SILENT CANYON - NORTH
26	1 28 56.47	37.31 N	116.43 W	15.2 F	1.9	SILENT CANYON - NORTH
26	2 40 29.08	37.30 N	116.45 W	14.2 F	1.8	SILENT CANYON - NORTH
26	10 15 44.92	37.30 N	116.43 W	14.8 F	1.8	SILENT CANYON - NORTH
26	11 18 13.83	36.41 N	116.28 W	1.1 F	1.3	ASH MEADOWS
26	11 18 58.51	36.81 N	116.31 W	5.0 D	1.2	LATHROP WELLS

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OCT	02	1	48	14.38	37.27 N	117.06 W	0.3	F	3.3	MT. JACKSON
	02	6	13	40.91	36.99 N	115.99 W	5.4	F	2.0	MERCURY
	02	20	15	51.33	36.53 N	114.78 W	5.0	D	3.1	MOAPA
	02	20	16	1.15	37.17 N	114.99 W	9.7	F	2.7	DELAMAR MOUNTAINS
	03	5	25	3.67	37.22 N	116.34 W	1.1	F	2.6	SILENT CANYON - NORTH
	03	11	50	55.40	37.34 N	115.92 W	5.3	F	1.4	GROOM LAKE
	03	17	52	6.10	37.31 N	114.67 W	2.0	F	2.1	DELAMAR MOUNTAINS
	03	17	52	41.63	36.78 N	115.82 W	5.0	D	1.3	MERCURY
	04	2	23	47.91	35.68 N	117.52 W	0.9	F	2.7	LITTLE LAKE
	06	19	40	31.20	37.28 N	117.06 W	6.8	F	2.1	MT. JACKSON
	08	21	45	54.05	37.30 N	114.79 W	5.6	F	3.3	DELAMAR MOUNTAINS
	09	2	19	22.11	36.77 N	115.96 W	1.7	F	2.0	MERCURY
	09	10	3	39.02	36.78 N	115.93 W	2.9	F	1.6	MERCURY
	12	2	47	41.23	37.20 N	117.12 W	2.7	F	3.5	MT. JACKSON
	12	5	40	44.28	36.84 N	115.64 W	7.3	F	2.6	MERCURY
	12	14	52	14.97	37.06 N	117.14 W	5.9	D	2.3	MT. JACKSON
	12	16	27	31.22	37.42 N	116.14 W	36.1	F	2.0	SILENT CANYON - NORTH
	13	10	57	31.83	37.26 N	116.45 W	9.6	F	2.1	SILENT CANYON - NORTH
	13	14	52	15.51	37.07 N	117.08 W	5.8	F	1.8	MT. JACKSON
	13	16	27	24.22	37.49 N	115.37 W	6.1	F	2.0	ALAMO
	15	4	53	22.88	37.22 N	115.00 W	1.8	F	2.6	ALAMO
	15	12	21	51.66	37.31 N	116.38 W	9.9	F	1.9	SILENT CANYON - NORTH
	15	12	29	7.43	37.24 N	116.40 W	5.0	D	2.3	SILENT CANYON - NORTH
	17	19	21	35.21	35.86 N	117.49 W	0.5	F	2.4	SEARLES LAKE
	17	19	21	51.47	36.80 N	117.06 W	19.8	F	1.6	TIN MOUNTAIN
	19	0	33	9.83	37.37 N	116.19 W	0.4	F	2.6	SILENT CANYON - NORTH
	20	11	36	8.03	37.27 N	117.00 W	14.3	F	2.1	MT. JACKSON
	20	11	41	37.94	37.32 N	116.35 W	4.6	F	2.4	SILENT CANYON - NORTH
	21	4	1	54.71	36.69 N	115.70 W	7.4	F	2.5	MERCURY
	23	1	32	15.47	36.26 N	114.80 W	10.3	F	2.8	HOOVER DAM
	23	2	31	19.56	37.46 N	116.27 W	2.8	F	2.1	SILENT CANYON - NORTH
	24	13	27	47.05	36.98 N	115.96 W	6.6	F	2.5	MERCURY
	24	19	25	38.89	37.08 N	115.96 W	9.5	F	2.6	GROOM LAKE

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12	9 44 44.54	37.31 N	116.43 W	12.1 F	2.2	SILENT CANYON - NORTH
13	19 7 44.57	37.00 N	116.23 W	5.0 D	1.8	LATHROP WELLS
14	17 10 26.79	37.08 N	116.00 W	1.8 F	3.2	SILENT CANYON - YUCCA FLAT
14	17 15 35.51	37.09 N	115.97 W	0.8 F	4.3	GROOM LAKE
19	3 15 8.81	37.13 N	116.59 W	16.1 F	2.3	THIRSTY CANYON
19	8 43 56.49	37.22 N	115.64 W	5.0 D	2.4	GROOM LAKE
19	9 2 41.18	36.61 N	116.25 W	9.1 F	1.8	LATHROP WELLS
20	2 50 17.27	37.80 N	116.31 W	9.3 F	1.8	QUARTZITE MOUNTAIN
21	3 52 55.46	37.47 N	116.88 W	2.8 F	2.4	THIRSTY CANYON
21	3 35 28.53	37.40 N	115.07 W	5.0 D	2.3	ALAMO
22	4 58 53.67	36.51 N	116.59 W	9.8 F	2.2	CHLORIDE CLIFF
22	19 16 25.92	36.51 N	116.66 W	5.7 F	2.3	CHLORIDE CLIFF
22	22 6 32.31	36.53 N	115.81 W	9.6 F	1.9	MERCURY
23	1 11 44.51	37.17 N	114.68 W	4.6 F	2.1	DELAMAR MOUNTAINS
23	2 57 24.19	36.53 N	115.55 W	0.4 F	2.3	MERCURY
23	4 48 28.60	36.53 N	115.55 W	0.3 F	2.3	MERCURY
23	12 13 22.72	36.54 N	115.54 W	8.8 F	2.2	MERCURY
23	15 15 28.22	36.56 N	115.51 W	4.8 F	1.8	MERCURY
25	0 38 31.11	36.68 N	115.56 W	7.4 F	2.3	MERCURY
26	4 7 5.81	37.09 N	117.33 W	2.6 F	1.9	MT. JACKSON
26	11 12 45.06	36.16 N	117.51 W	5.0 D	2.4	DARWIN
26	11 24 33.94	37.51 N	116.34 W	5.0 D	1.9	QUARTZITE MOUNTAIN
27	10 15 13.36	36.44 N	115.56 W	4.5 F	2.0	CHARLESTON PEAK
27	22 2 2.34	36.87 N	116.24 W	6.3 F	1.6	LATHROP WELLS
28	11 8 20.10	36.86 N	115.94 W	1.1 F	1.5	MERCURY
29	4 56 53.57	36.76 N	116.27 W	3.5 F	1.6	LATHROP WELLS
29	5 21 31.05	36.87 N	115.79 W	5.0 D	0.9	MERCURY
29	9 17 14.53	36.71 N	116.27 W	9.4 F	1.2	LATHROP WELLS
30	6 0 56.01	36.24 N	116.48 W	8.9 F	2.1	ASH MEADOWS
DEC 01	23 16 11.90	36.67 N	115.33 W	3.1 F	2.5	HAYFORD PEAK
02	6 31 2.93	36.77 N	115.91 W	3.9 F	1.8	MERCURY
04	0 40 35.65	38.29 N	117.20 W	6.4 F	3.0	TONOPAH
06	6 46 35.11	37.37 N	115.13 W	5.2 F	2.6	ALAMO

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28	8 46 30.82	36.69 N	116.32 W	3.7 F	1.9	LATHROP WELLS
30	12 9 23.94	36.61 N	116.26 W	5.0 B	1.5	LATHROP WELLS
30	19 45 27.57	37.32 N	115.05 W	1.7 F	2.2	ALAMO

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EXPLANATION OF PHASE READING COLUMN HEADINGS

HYPOCENTERS ARE LISTED IN CHRONOLOGICAL ORDER.
HYPOCENTER INFORMATION IS ARRANGED AS FOLLOWS:

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*****************************************************************
*  DATE  ORIGIN TIME      RMS   NO   MB            TYPE OF SOLUTION  *
*          LATITUDE       ERH   ERM  M       G                      *
*          LONGITUDE      ERY   GAP  AVFM    GS    GEOGRAPHIC LOCATION*
*          DEPTH          ERZ   NM   AVXM    GB                     *
*****************************************************************
*   PHASE DATA                                                    *
*        *                                                        *
*        *                                                        *
*****************************************************************
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EXPLANATION OF HYPOCENTER SOLUTION VARIABLE NAMES

RMS = ROOT-MEAN-SQUARE OF TRAVEL-TIME RESIDUALS, IN SECONDS

ERZ = STANDARD ERROR IN LATITUDE, IN KILOMETERS

ERY = STANDARD ERROR IN LONGITUDE, IN KILOMETERS

ERZ = STANDARD ERROR IN DEPTH, IN KILOMETERS

NO = NUMBER OF STATION READINGS

ERH = STANDARD ERROR OF EPICENTER, IN KILOMETERS;
HYPO71 NOTATION (LEE AND LAHR, 1975)

GAP = LARGEST AZIMUTHAL SEPARATION BETWEEN STATIONS, IN DEGREES

MB = AVERAGE BODY-WAVE MAGNITUDE, FROM TELESEISMIC P-WAVE
AMPLITUDES OR FROM PG PHASE AMPLITUDES

M = AVERAGE SURFACE-WAVE MAGNITUDE (MS) IF EVENT IS A TELESEISM;
M IS LOCAL MAGNITUDE (ML) OTHERWISE

AVFM= AVERAGE MAGNITUDE COMPUTED BY THE METHOD OF LEE, BENNETT, AND
MEAGHER (1972)

NM = NUMBER OF STATION READINGS USED FOR COMPUTING AVXM

AVXM= AVERAGE MAGNITUDE COMPUTED BY THE METHOD OF EATON, O'NEILL, AND
MURDOCK (1970)

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JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
JAN M = 4 22 18.99 UTC RMS = 0.06 NO = 6															FREE DEPTH SOLUTION
06 LAT = 36.523 N ERX = 0.2 ERM = 0.3 AVFM = 1.4 Q = C															
LONG = 116.381 W ERY = 0.3 GAP = 118 AVXM = GS = C															LATHROP WELLS
DEPTH = 3.41 KM ERZ = 5.8 NM = GD = C															
06	SDM	IPU4	4 22 21.25						11	1.3	14.1	16	108	2.26	2.68 -0.42
06	AMR	EPU	4 22 22.08						24	1.9	16.2	211	98	3.01	3.02 -0.01
06	LSM	EPD	4 22 23.37								25.9	22	95	4.38	4.57 -0.20
06	JCN	EPU	4 22 23.70						7	0.9	24.6	110	95	4.71	4.69 0.01
06	BRD	EPU	4 22 24.99								34.4	321	94	6.08	5.95 0.04
06	LOP	EPD	4 22 26.12								41.4	28	93	7.13	7.09 0.03
06	CPX	EPU4	4 22 27.85								53.5	33	92	8.86	9.05 -0.20
06	BCB	EP	4 22 28.98								58.7	14	92	9.91	9.91 0.05
06	SGV	EP 4	4 22 32.48								77.2	311	92	13.41	12.91 0.49
06	TPU	EPD4	4 22 42.58								136.5	28	53	23.59	22.27 1.32
06	OCS	EP 4	4 22 43.45								144.2	17	53	24.46	23.26 1.20
JAN M = 15 11 59.33 UTC RMS = 0.08 NO = 8															FREE DEPTH SOLUTION
08 LAT = 37.297 N ERX = 0.5 ERM = 0.6 AVFM = 2.3 Q = B															
LONG = 117.625 W ERY = 0.3 GAP = 104 AVXM = GS = A															MAGRUDER MOUNTAIN
DEPTH = 4.28 KM ERZ = 1.0 NM = GD = B															
08	LCM	IPD	15 12 0.98						30	2.3	7.2	196	113	1.65	1.61 0.04
08	MGM	IPD	15 12 2.88						33	2.2	19.6	35	98	3.47	3.57 -0.10
08	PPK	IPU	15 12 4.38						33	2.3	28.8	300	95	5.01	5.06 -0.05
08	SVP	IPU	15 12 7.92								48.9	341	93	8.59	8.32 0.12
08	MZP	IPD	15 12 7.61						12	1.5	49.6	26	93	8.28	8.43 0.04
08	LSM	EPU	15 12 21.28						32	2.6	135.4	117	53	21.87	22.09 -0.22
08	LOP	EPD	15 12 21.91						31	2.6	138.6	111	53	22.58	22.50 0.08
08	CPX	EPU	15 12 22.81								145.1	106	53	23.6[illegible]	23.35 0.13
08	GPM	IPD	15 12 26.27						21	2.3	164.4	89	53	26.94	25.85 1.09
JAN M = 16 6 8.32 UTC RMS = 0.06 NO = 6															FREE DEPTH SOLUTION
08 LAT = 37.298 N ERX = 0.5 ERM = 0.7 AVFM = 2.1 Q = B															
LONG = 117.625 W ERY = 0.4 GAP = 104 AVXM = GS = A															MAGRUDER MOUNTAIN
DEPTH = 3.39 KM ERZ = 1.4 NM = GD = B															
08	LCM	IPD	16 6 9.93						26	2.0	7.3	195	106	1.61	1.58 0.03
08	MGM	IPD	16 6 11.80						18	1.7	19.6	36	95	3.48	3.55 -0.07
08	PPK	IPU	16 6 13.32						18	1.7	28.7	300	94	5.00	5.03 -0.03
08	SVP	IPU	16 6 16.85								48.8	341	92	8.53	8.30 0.08
08	LSM	IPD	16 6 30.64						27	2.5	135.5	117	53	22.32	22.19 0.13
08	LCP	EPU	16 6 30.75						26	2.4	138.7	111	53	22.43	22.59 -0.17
08	OCS	EPU	16 6 34.65								159.9	71	53	26.33	25.35 0.98
JAN M = 16 38 1.38 UTC RMS = 0.70 NO = 5															FREE DEPTH SOLUTION
08 LAT = 36.930 N ERX = 1.2 ERM = 1.6 AVFM = 1.6 Q = D															
LONG = 116.060 W ERY = 1.0 GAP = 139 AVXM = GS = D															LATHROP WELLS
DEPTH = 8.12 KM ERZ = 0.9 NM = GD = D															
08	CPX	EPU	16 38 3.15						17	1.6	0.2	141	178	1.77	1.49 0.28
08	LOP	IPU	16 38 3.85						16	1.6	12.8	229	119	2.47	2.70 -0.23
08	LSM	IPU4	16 38 5.22						17	1.7	28.4	222	103	3.84	5.10 -1.26
08	GLR	EPU	16 38 7.80								30.1	7	103	6.42	5.36 1.21
08	SPRG	IPD4	16 38 8.11						15	1.6	34.5	140	101	******	6.06 -7.33
08	GPM	IPU	16 38 9.42								51.6	30	97	8.08	8.81 -0.77
08	TPU	IPU	16 38 14.65								83.2	26	94	13.27	13.93 -0.66
08	MPM	EPU4	16 38 20.91								127.8	51	53	19.53	20.72 -1.19
08	SPG	EPU4	16 38 23.06								137.4	40	53	21.62	21.96 -0.34
JAN M = 16 51 2.09 UTC RMS = 0.09 NO = 8															FREE DEPTH SOLUTION
08 LAT = 36.750 N ERX = 0.8 ERM = 1.0 AVFM = 1.7 Q = C															
LONG = 115.833 W ERY = 0.6 GAP = 152 AVXM = GS = B															MERCURY
DEPTH = 5.92 KM ERZ = 2.3 NM = GD = C															
08	SPRG	IPD	16 51 3.74						15	1.5	6.6	161	127	1.65	1.66 -0.01
08	LOP	IPD	16 51 7.55						16	1.7	32.0	291	98	5.46	5.60 -0.14
08	LSM	IPD	16 51 8.45						19	1.8	39.2	268	96	6.46	6.77 0.09
08	JCN	EP	16 51 9.40								42.1	215	96	7.31	7.23 0.08	MESSY FILM
08	SDM	EP	16 51 10.00								46.6	256	95	7.91	7.97 -0.06	MESSY FILM
08	GLR	EPD	16 51 11.40								52.5	342	95	9.31	8.91 0.55
08	GPM	IPU	16 51 13.03								65.0	5	94	10.94	10.94 -0.00
08	TPU	EPU	16 51 18.13								96.2	10	93	16.01	16.02 -0.01
08	OCS	EPD4	16 51 21.85								113.2	356	92	19.76	19.77 0.99

LOCAL-LEVEL DATA REPORT

JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	AMAG	QUN	FMAG	DIST (NM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
		ES	23 21 46.15									3.36	3.31	0.05	
11	LOP	IPU	23 21 46.71				8	1.0	10.5	67	110	1.92	2.15	-0.23	
		ES	23 21 48.45									3.86	3.76	0.10	
11	BGB	EPU	23 21 49.20						24.0	10	90	4.41	4.42	0.00	

JAN H = 11 40 59.69 UTC RMS = 0.05 NO = 9 — FREE DEPTH SOLUTION
12 LAT = 36.817 N ERX = 0.2 ERM = 0.3 AVFM = 1.5 Q = B
LONG = 116.269 W ERY = 0.2 GAP = 109 AVXM = QS = A — LATHROP WELLS
DEPTH = 1.04 KM ERZ = 0.4 NM = QD = B

12	LSM	IPDe	11 41 1.42			27	2.0	4.7	182	38	1.73	1.90	-0.17	
12	LCP	IPD	11 41 1.73			22	1.6	9.8	66	38	2.04	2.08	-0.04	
12	SSP	IPU	11 41 2.20					12.7	20	38	2.51	2.55	-0.04	
12	SDM	IPDe	11 41 3.20					20.1	198	38	3.51	3.76	-0.24	
12	CPX	EPDe	11 41 3.48			12	1.4	22.4	56	38	3.75	4.13	-0.37	
		ES	11 41 6.77								7.08	7.22	-0.14	
12	BGB	IPD	11 41 4.20					24.7	8	38	4.51	4.51	0.06	
12	MCX	IPU	11 41 5.24			7	0.9	30.5	126	38	5.55	5.45	0.10	
		ES	11 41 9.80								10.11	9.54	0.57	
12	BRD	EPD	11 41 5.45					32.5	259	38	5.76	5.77	-0.01	
		ISD	11 41 9.79								10.10	10.10	0.00	
12	SPRG	IPD	11 41 7.27					43.1	109	38	7.58	7.50	0.08	
12	AMR	EPD	11 41 8.32					50.1	202	38	8.63	8.64	-0.00	

JAN H = 19 13 26.40 UTC RMS = 0.10 NO = 9 — FREE DEPTH SOLUTION
12 LAT = 36.816 N ERX = 0.5 ERM = 0.6 AVFM = 1.5 Q = B
LONG = 116.273 W ERY = 0.4 GAP = 110 AVXM = QS = B — LATHROP WELLS
DEPTH = 4.93 KM ERZ = 2.6 NM = — QD = B

12	LSM	IPD	19 13 28.29					8.6	179	114	1.89	1.86	0.03	
12	LCP	IP	19 13 28.48			24	1.9	10.4	66	109	2.08	2.13	-0.05	
12	SSP	IPU	19 13 28.90			23	1.9	13.0	22	105	2.50	2.54	-0.05	
12	SDM	IPD	19 13 29.85			12	1.4	19.8	197	100	3.45	3.62	-0.17	
12	CPX	EPU	19 13 30.16			15	1.6	22.9	57	99	3.76	4.11	-0.36	
12	BGB	EPD	19 13 30.85			20	1.8	24.9	9	98	4.45	4.44	0.05	
12	MCX	IPU	19 13 31.90			6	0.8	30.9	125	96	5.50	5.40	0.09	
12	BRD	EP	19 13 32.04			9	1.2	32.0	259	96	5.64	5.58	0.06	VERY E
12	SPRG	IPD	19 13 34.00					43.6	108	94	7.60	7.46	0.14	
12	TPU	EPDe	19 13 45.10					103.6	32	92	18.70	17.22	1.48	
12	DCS	EPUe	19 13 46.14					110.3	17	92	19.74	18.30	1.44	

JAN H = 0 40 59.81 UTC RMS = 0.04 NO = 8 — FREE DEPTH SOLUTION
13 LAT = 36.813 N ERX = 0.2 ERM = 0.2 AVFM = 1.1 Q = B
LONG = 116.268 W ERY = 0.2 GAP = 108 AVXM = QS = A — LATHROP WELLS
DEPTH = 1.16 KM ERZ = 0.5 NM = QD = B

13	LSM	IPU	4 41 1.62					8.3	192	38	1.81	1.81	-0.00	
13	LCP	IPD	4 41 1.87					10.0	63	38	2.06	2.10	-0.04	
13	SSP	IPU	4 41 2.35			15	1.5	13.1	20	38	2.54	2.60	-0.06	
		ISD	4 41 4.35								4.54	4.55	-0.01	
13	SDM	EPDe	4 41 3.30			6	0.8	19.7	199	38	3.49	3.66	-0.18	
13	CPX	EPDe	4 41 3.60					22.6	56	38	3.79	4.15	-0.36	
13	BGB	EPD	4 41 4.35			10	1.2	25.2	8	38	4.54	4.55	0.03	
13	MCX	EPU	4 41 5.20					30.3	125	38	5.39	5.39	-0.00	
13	BRD	EP	4 41 5.55			6	0.8	32.4	260	38	5.74	5.73	0.00	VERY E
13	SPRG	EPD	4 41 7.38					43.0	108	38	7.57	7.46	0.11	

JAN H = 4 44 48.07 UTC RMS = 0.01 NO = 6 — FREE DEPTH SOLUTION
13 LAT = 36.828 N ERX = 0.0 ERM = 0.1 AVFM = Q = C
LONG = 116.263 W ERY = 0.1 GAP = 132 AVXM = QS = C — LATHROP WELLS
DEPTH = 1.64 KM ERZ = 13.5 NM = QD = B

13	LSM	EPDe	4 44 45.60					9.1	185	38	1.53	1.84	-0.31	
13	LCP	EPD	4 44 45.93					9.3	66	38	1.86	1.87	-0.01	
13	SSP	EPU	4 44 46.42					12.3	19	38	2.35	2.36	-0.01	
13	SDM	EPDe	4 44 47.35					20.6	199	38	3.28	3.71	-0.43	
13	BGB	EPD	4 44 48.35					24.3	7	38	4.28	4.32	0.01	
13	MCX	EPU	4 44 49.38					30.4	127	38	5.31	5.30	0.01	
13	BRD	EPD	4 44 49.60					33.0	259	38	5.73	5.73	-0.00	
13	SPRG	EPD	4 44 51.40					42.8	109	38	7.33	7.33	0.00	

JAN H = 7 14 23.54 UTC RMS = 0.15 NO = 4 — FREE DEPTH SOLUTION
14 LAT = 36.815 N ERX = 0.7 ERM = 0.9 AVFM = 1.4 Q = C

JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
15 LAT = 37.066 N			ERX = 0.6	ERM = 1.0			AVFM = 1.4		Q = D						
LONG = 116.050 W			ERY = 0.8	GAP = 181			AVXM =		QS = C						SILENT CANYON - YUCCA FLAT
DEPTH = 5.31 KM			ERZ = 0.5	NM =					QD = D						
15	GLR	IPU	12 21 24.23						15.1	11	105	2.74	2.88	3.00	
15	CPX	IPD4	12 21 23.92				10	1.2	15.2	183	105	2.43	2.40	-0.48	
15	BGB	EP	12 21 24.50				12	1.3	16.1	259	104	3.01	3.04	0.02	
15	SSP	EPD	12 21 25.35				16	1.6	21.6	224	100	3.86	3.92	-0.07	
15	LOP	IPU4	12 21 25.79				16	1.6	25.7	204	98	4.30	4.57	-0.28	
15	GMR	EPD4	12 21 28.25						38.7	40	96	6.76	6.68	0.08	
15	LSM	EPU	12 21 28.61				12	1.4	41.3	209	95	7.12	7.09	0.02	
15	SPRG	EPU	12 21 29.44						46.5	152	95	7.95	7.94	0.01	
15	SDM	EPD4	12 21 36.67						53.2	209	94	15.18	9.03	6.15	

JAN M = 14 21 11.09 UTC			RMS = 0.07	NO = 8											FREE DEPTH SOLUTION
15 LAT = 37.533 N			ERX = 0.2	ERM = 0.4			AVFM = 1.1		Q = B						
LONG = 116.374 W			ERY = 0.4	GAP = 79			AVXM =		QS = A						QUARTZITE MOUNTAIN
DEPTH = 11.28 KM			ERZ = 1.0	NM =					QD = B						
15	KRN	IPD	14 21 15.09						19.5	10	117	4.00	3.91	0.09	
15	BLT	EP 4	14 21 15.11						22.6	111	114	4.02	4.36	-0.34	
15	CTS	EPU	14 21 17.00						33.2	291	107	5.91	5.98	-0.07	
15	EPN	IPD	14 21 17.50						35.7	173	106	6.41	6.36	0.05	
15	OCS	EPD	14 21 19.42						48.1	57	102	8.33	8.33	0.00	
15	GLR	EPD4	14 21 19.25						48.7	140	101	8.16	8.42	-0.11	
15	GPR	IPU	14 21 20.95				8	1.1	57.8	112	100	9.86	9.88	-0.02	
15	LCP	EPD	14 21 24.15						77.5	166	97	13.06	13.06	0.00	
15	SGV	EPD	14 21 25.38						84.6	224	97	14.21	14.20	0.02	
15	GVN	EPD	14 21 28.60						104.2	236	53	17.51	17.34	0.17	

JAN M = 20 20 21.96 UTC			RMS = 0.04	NO = 8											FREE DEPTH SOLUTION
15 LAT = 36.179 N			ERX = 0.9	ERM = 1.0			AVFM = 3.8		Q = C						
LONG = 117.567 W			ERY = 0.5	GAP = 262			AVXM =		QS = B						DARWIN
DEPTH = 1.16 KM			ERZ = 4.5	NM =					QD = D						
15	MCA	IPD4	20 20 31.00				128	3.5	58.1	26	38	9.04	9.90	-0.86	
15	GSP	IPU	20 20 33.35				117	3.5	67.2	111	38	11.39	11.39	-0.01	
15	TPO	IPD4	20 20 32.95				165	3.8	71.0	12	38	10.99	12.00	-1.01	
15	GVN	IPD4	20 20 37.15				169	3.9	93.5	12	38	15.19	15.86	-0.67	
15	SGV	IPD4	20 20 38.55				180	4.0	101.1	28	38	16.59	16.90	-0.31	
15	APK	IPU	20 20 38.79				130	3.7	101.1	76	38	16.83	16.90	-0.08	
15	BRO	IPU4	20 20 39.50				124	3.7	106.4	52	38	17.54	17.76	-0.22	
15	LCM	IPD4	20 20 40.24						117.4	356	38	18.28	19.55	-1.27	
15	NPN	IPD	20 20 42.08				176	4.0	120.5	34	38	20.04	20.05	-0.01	
15	SDM	IPU	20 20 42.29				120	3.7	121.8	65	38	20.33	20.27	0.06	
15	NCP	IPU	20 20 43.11				99	3.6	127.3	93	38	21.15	21.17	-0.02	
15	LSM	IPD4	20 20 44.13				99	3.6	131.6	62	38	22.17	21.87	0.30	
15	JOM	IPU	20 20 44.40				110	3.7	134.6	78	38	22.44	22.36	0.08	
15	MGM	EPU4	20 20 44.30						140.2	3	30	22.34	23.09	-0.75	
15	PPK	EPD4	20 20 42.40						141.7	348	30	20.44	23.28	-2.84	
15	LOP	IPU4	20 20 46.25				158	4.0	146.1	59	30	24.29	23.85	0.44	
15	SSP	IPD4	20 20 46.29						146.3	56	30	24.33	23.88	0.45	
15	MCX	IPD4	20 20 47.05				54	3.1	151.0	69	30	25.09	24.48	0.60	
15	BGB	IPU4	20 20 46.10						153.1	52	30	24.14	24.76	-0.58	
15	CPX	IPU4	20 20 47.76				138	4.0	158.6	58	30	25.80	25.47	0.33	
15	EPN	IPD4	20 20 48.50						159.8	44	30	26.54	25.63	0.90	
15	SPRG	IPU4	20 20 48.89				125	3.9	167.7	70	30	26.93	26.66	0.27	
15	MZP	EPD4	20 20 49.20						169.7	6	30	27.24	26.91	0.52	
15	SVP	EPD	20 20 49.30						171.7	353	30	27.34	27.18	0.01	
15	CTS	EPD4	20 20 50.60				75	3.5	178.6	25	30	28.64	28.08	0.56	
15	GLR	IPD4	20 20 50.69				97	3.7	178.9	51	30	28.73	28.11	0.77	
15	APK	IPU	20 20 50.22				101	3.8	179.9	85	30	28.26	28.24	0.02	
15	BLT	EPU4	20 20 52.50				114	3.9	191.3	42	30	30.54	29.72	0.82	
15	KRN	IPU4	20 20 53.67				153	4.2	202.0	33	30	31.71	31.11	0.60	
15	GPR	IPU4	20 20 54.22				148	4.2	205.2	51	30	32.26	31.53	0.73	
15	TNP	IPD4	20 20 55.07				157	4.3	213.5	4	30	33.11	32.60	0.51	
15	SHHS	IPU4	20 20 56.31						219.6	81	30	34.35	33.40	1.00	
15	OCS	EPU	20 20 56.80						229.5	40	30	34.84	34.69	0.15	
15	TPU	EPU	20 20 57.10						233.0	47	30	35.14	35.13	0.01	
15	EPR	IPU4	20 20 58.40				190	4.5	239.4	63	30	36.44	35.97	0.47	
15	PRN	IPU4	20 29 1.21				133	4.3	262.8	59	30	39.25	39.00	0.25	

JAN M = 17 58 42.77 UTC			RMS = 0.13	NO = 12											FREE DEPTH SOLUTION
16 LAT = 37.292 N			ERX = 0.4	ERM = 0.6			AVFM = 1.7		Q = C						
LONG = 117.055 W			ERY = 0.5	GAP = 140			AVXM =		QS = C						MT. JACKSON
DEPTH = 4.78 KM			ERZ = 0.3	NM =					QD = C						

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JAN 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	PMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TMOS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
JAN M = 8 34 1.37 UTC RMS = 0.06 NO = 8															FREE DEPTH SOLUTION
24 LAT = 37.142 N ERX = 0.4 ERM = 0.6 AVFM = 1.8 Q = C															
LONG = 115.456 W ERY = 0.4 GAP = 123 AVXM = QS = B															ALAMO
DEPTH = 9.35 KM ERZ = 3.1 NM = QD = C															
24	EPR	IPU	8 34 5.80				31	2.2	24.8	88	109	4.45	4.45	-0.02	
24	GHR	EPD4	8 34 6.26				13	1.5	33.8	304	103	4.89	6.00	-1.11	
24	PRN	IPU	8 34 9.30				13	1.5	45.1	53	100	7.93	7.80	0.13	
24	GLR	EPD	8 34 9.80						50.8	275	99	8.43	8.58	0.08	
24	TPU	EPD4	8 34 9.50				16	1.7	52.0	341	99	8.13	8.91	-0.77	
24	HTI	IPU4	8 34 10.70				16	1.7	59.4	16	98	9.33	10.09	-0.56	
24	CPX	IPU	8 34 11.50						59.5	244	97	10.13	10.11	0.02	
24	SPRG	EPD	8 34 11.65						68.7	211	97	10.28	10.31	-0.02	
24	BLT	EPU4	8 34 12.60						68.7	299	96	11.23	11.60	-0.37	
24	APN	EPU	8 34 13.38				16	1.8	71.3	40	96	12.01	12.01	0.01	
24	LOP	EPD4	8 34 13.70						71.9	242	96	12.33	12.12	0.21	
24	EPN	EP	8 34 14.42				11	1.5	77.2	274	96	13.05	12.97	0.08	VERY E
24	SRG	EPU	8 34 15.80				26	2.3	87.0	23	95	14.43	14.55	-0.12	
24	WRN	EPD4	8 34 16.36				15	1.8	91.7	353	95	14.99	15.32	-0.33	
24	SDH	EP 4	8 34 17.80						97.3	234	95	16.43	16.22	0.21	VERY E
24	JCN	EP 4	8 34 18.20						98.8	216	94	16.83	16.46	0.37	VERY E
24	NPN	EPU4	8 34 22.30						121.4	266	53	20.93	19.77	1.16	
JAN M = 8 59 41.12 UTC RMS = 0.04 NO = 5															FREE DEPTH SOLUTION
24 LAT = 37.132 N ERX = 0.5 ERM = 1.2 AVFM = 1.7 Q = C															
LONG = 115.505 W ERY = 1.1 GAP = 232 AVXM = QS = B															GADOM LAKE
DEPTH = 15.72 KM ERZ = 0.8 NM = QD = D															
24	EPR	IPU	8 59 46.70				24	2.0	28.6	82	117	5.50	5.55	0.03	
24	GHR	IPD	8 59 47.22				12	1.4	32.6	314	114	6.10	6.14	-0.04	
24	PRN	IPD4	8 59 50.29				9	1.2	50.6	53	106	9.17	8.90	0.27	
24	TPU	EPD	8 59 50.61				15	1.7	50.1	246	105	9.49	9.48	0.05	
24	HTI	EPD4	8 59 51.55				15	1.7	62.9	19	103	10.43	10.99	-0.56	
24	NPN	EPU	8 59 54.10						76.6	41	101	12.98	13.02	-0.04	
24	SRG	EPD	8 59 56.43				25	2.2	91.8	25	53	15.31	15.31	0.00	
JAN M = 11 40 11.18 UTC RMS = 0.01 NO = 5															FREE DEPTH SOLUTION
25 LAT = 36.603 N ERX = 0.4 ERM = 0.5 AVFM = 0.9 Q = C															
LONG = 116.316 W ERY = 0.2 GAP = 204 AVXM = QS = A															LATHROP WELLS
DEPTH = 10.96 KM ERZ = 0.3 NM = QD = D															
25	SDH	IPU4	11 40 13.55				7	0.8	5.1	338	153	2.37	2.15	0.22	
		ISU	11 40 14.95									3.77	3.76	0.01	
25	LSM	IPU	11 40 14.50				10	1.2	15.6	15	122	3.32	3.33	-0.02	
25	JOH	IPU	11 40 16.08				5	0.6	26.3	133	110	4.90	4.90	-0.00	
		ESU	11 40 19.75									8.57	8.57	-0.01	
25	LOP	EPU	11 40 16.81						30.9	25	107	5.63	5.61	0.02	
JAN M = 3 7 10.79 UTC RMS = 0.09 NO = 10															FREE DEPTH SOLUTION
26 LAT = 36.717 N ERX = 0.3 ERM = 0.5 AVFM = 1.6 Q = A															
LONG = 116.239 W ERY = 0.3 GAP = 65 AVXM = QS = A															LATHROP WELLS
DEPTH = 5.13 KM ERZ = 1.6 NM = QD = A															
26	LSM	IPU	3 7 12.21						3.8	310	138	1.42	1.24	0.18	
26	SDH	IPD	3 7 12.99				14	1.5	11.9	228	108	2.20	2.38	-0.17	
26	LCP	IPD	3 7 13.90				25	2.0	16.5	23	103	3.11	3.10	0.02	
26	SSP	IPU	3 7 14.91				26	2.0	23.2	4	99	4.12	4.16	-0.04	
		ISD4	3 7 17.98									7.19	7.28	-0.09	
26	CPX	IPD	3 7 15.69				14	1.5	20.5	34	97	4.90	5.02	-0.12	
26	JCN	EPU	3 7 16.61				11	1.3	33.1	158	96	5.82	5.76	0.07	
		ISD4	3 7 20.95									10.16	10.08	0.09	
26	BRO	EPU	3 7 16.85				11	1.3	34.9	278	96	6.06	6.06	0.00	
		ISU4	3 7 22.05									11.26	10.61	0.66	
26	BGB	EPD	3 7 16.95				13	1.5	35.6	2	96	6.16	6.17	0.04	
26	SPRG	IPU	3 7 17.42				13	1.5	38.4	94	95	6.63	6.63	0.00	
26	APN	EP	3 7 17.94				10	1.3	41.2	211	95	7.15	7.08	0.07	
26	NPN	EPD	3 7 22.30				19	1.9	65.6	308	93	11.51	11.03	0.48	
26	TPU	IPU4	3 7 30.53				17	2.0	111.6	26	92	19.74	18.51	1.23	
26	HTI	EPD4	3 7 34.67						136.7	39	53	23.88	22.18	1.91	
JAN M = 3 27 52.12 UTC RMS = 0.06 NO = 5															FREE DEPTH SOLUTION
26 LAT = 36.694 N ERX = 0.9 ERM = 1.5 AVFM = 1.5 Q = C															
LONG = 116.189 W ERY = 1.2 GAP = 112 AVXM = QS = B															ASH MEADOWS
DEPTH = 23.66 KM ERZ = 1.1 NM = QD = D															

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LOCAL-EVENT DATA REPORT

JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
LONG = 115.256 W DEPTH = 12.29 KM			ERY = 0.3 ERZ = 1.6		GAP = 161 NM =			AVXM =		QS = A QD = C		LAS VEGAS			
30	SHRG	IPU	11 31 10.12				26	2.0	9.3	76	141	2.65	2.70	-0.01	
30	APK	IPU	11 31 13.63						33.9	237	108	6.16	6.16	0.01	
30	SPRG	EPUa	11 31 16.40				27	2.2	54.7	295	101	8.93	9.41	-0.49	
30	CPK	EPUa	11 31 21.90				22	2.1	87.8	305	97	14.43	14.61	-0.18	
30	NCP	EPU	11 31 22.50				16	1.9	89.7	244	97	15.03	15.05	-0.02	
		ISDa	11 31 33.31									25.84	26.33	-0.49	
30	LCP	IPD	11 31 22.79				32	2.5	91.2	297	97	15.32	15.28	0.03	
30	LSM	IPD	11 31 23.36				62	3.0	95.2	287	96	15.89	15.93	-0.04	LONG CODA
30	SCM	IPD	11 31 23.90				24	2.2	98.5	280	96	16.51	16.46	0.05	
30	SSP	IPU	11 31 24.00				35	2.6	98.9	300	96	16.53	16.53	-0.01	
30	CPN	IPDa	11 31 28.87						125.0	310	53	21.40	19.96	1.44	
30	GNV	EPUa	11 31 29.49				27	2.5	131.3	255	53	22.02	20.77	1.15	
30	NPN	EPUa	11 31 33.35				29	2.6	154.3	295	53	25.88	23.76	2.12	
30	SGV	IPUa	11 31 35.21				26	2.5	168.0	289	53	27.74	25.54	2.20	

JAN H = 14 26 32.66 UTC 30 LAT = 36.623 N LONG = 116.281 W DEPTH = 7.58 KM			RMS = 0.03 ERX = 1.0 ERY = 0.7 ERZ = 2.2	NO = 5 ERM = 1.2 GAP = 217 NM =			AVFM = 1.4 AVXM =		Q = C QS = B QD = D		FREE DEPTH SOLUTION LATHROP WELLS			
30	SDH	IPU	14 26 34.48			9	1.1	5.7	296	140	1.74	1.74	0.01	
30	LSM	IPU	14 26 35.32			31	2.2	12.9	4	117	2.66	2.68	-0.01	
30	LOP	EP	14 26 37.55			12	1.4	27.6	22	183	4.89	4.95	-0.05	
30	APR	EP a	14 26 39.30					38.4	215	101	6.64	5.39	1.26	VERY E
30	SSP	EP	14 26 38.68			9	1.2	34.0	10	100	6.02	5.96	0.06	VERY E
30	CPK	EP a	14 26 37.43					39.3	30	99	4.77	6.82	-2.05	VERY E
30	SPNG	EP—	14 26 40.05			—		42.9	79	98	7.39	7.40	-0.00	VERY E

JAN H = 14 20 48.27 UTC 31 LAT = 37.279 N LONG = 117.624 W DEPTH = 0.96 KM			RMS = 0.10 ERX = 0.3 ERY = 0.2 ERZ = 5.8	NO = 17 ERM = 0.3 GAP = 122 NM =			AVFM = 2.4 AVXM =		Q = C QS = C QD = B		FREE DEPTH SOLUTION MAGRUDER MOUNTAIN			
31	LCM	IP	14 20 49.61			28	2.0	4.9	183	38	1.34	1.31	0.03	
31	MGM	IP	14 20 52.20			22	1.9	22.2	36	38	3.93	4.12	-0.19	
31	PPK	IPU	14 20 53.36			23	2.0	24.5	305	38	5.09	5.13	-0.04	
31	GPN	IPUa	14 20 55.26			42	2.5	34.2	86	38	6.99	6.06	0.93	
31	SVP	IP	14 20 57.16			26	2.1	50.3	344	38	8.89	8.69	0.05	
31	MZP	IPD	14 20 57.11			17	1.8	52.2	26	38	8.84	8.99	0.04	
31	SGV	IPU	14 20 58.90			32	2.4	63.6	121	38	10.63	10.85	-0.23	
31	NPN	IPD	14 21 1.15			35	2.5	76.5	127	38	12.88	12.95	-0.07	
31	CTS	EPU	14 21 3.60			18	2.0	90.5	64	38	15.33	15.23	0.10	
31	TNP	IPD	14 21 4.70			34	2.5	96.7	23	38	16.43	16.23	0.20	
31	FMT	EPDa	14 21 5.35			26	2.3	104.7	133	38	17.08	17.53	-0.36	
31	BRD	IPD	14 21 6.10			28	2.3	107.3	122	38	17.83	17.95	-0.12	
31	EPN	EPD	14 21 8.18					117.4	94	38	19.91	19.60	0.31	
31	HRN	EP a	14 21 9.55			37	2.7	125.1	68	38	21.28	20.85	0.43	
31	BCB	EPU	14 21 9.54			33	2.6	128.6	102	38	21.27	21.41	-0.09	
31	BLT	EPU	14 21 10.85			26	2.4	135.1	81	30	22.59	22.47	0.10	
31	LSM	EP	14 21 10.75			49	3.6	136.1	116	30	22.48	22.59	-0.11	
31	LCP	EP	14 21 11.60			34	2.7	139.5	110	30	23.33	23.04	0.29	
31	APR	EPD	14 21 12.05			23	2.4	143.1	133	30	23.78	23.50	0.27	
31	GLR	EPU	14 21 12.20			27	2.5	144.7	94	30	23.93	23.71	0.37	
31	OCS	EPDa	14 21 15.55			23	2.4	162.1	70	30	27.28	25.98	1.30	
31	GPR	EPUa	14 21 15.42					164.2	88	30	27.65	26.50	1.15	
31	TPU	EPDa	14 21 18.07			33	2.8	180.3	78	30	29.80	28.34	1.46	

FEB H = 15 47 49.59 UTC 01 LAT = 37.569 N LONG = 117.890 W DEPTH = 1.60 KM			RMS = 0.13 ERX = 2.1 ERY = 0.8 ERZ = 3.2	NO = 5 ERM = 2.2 GAP = 200 NM =			AVFM = 1.0 AVXM =		Q = C QS = B QD = D		FREE DEPTH SOLUTION SILVER PEAK			
01	PPK	IPD	15 47 52.55			8	1.0	15.9	186	38	2.96	2.95	0.01	
01	SVP	IPU	15 47 53.00			10	1.2	18.0	26	38	3.41	3.29	-0.03	
		ISU	15 47 55.50								5.91	6.02	-0.11	
01	MGM	IPUa	15 47 56.12			6	0.8	37.6	112	38	6.53	6.47	0.06	
		ISU	15 48 0.46								11.27	11.33	-0.06	
01	LCM	EP a	15 47 58.15			7	1.0	42.9	150	38	8.56	7.34	1.23	VERY E
01	MZP	EP a	15 47 57.70					47.1	72	38	8.11	8.02	0.28	
		ISD	15 48 3.65								14.06	13.70	0.36	
01	NPN	EPUa	15 48 8.61					109.6	120	38	19.02	18.15	0.87	

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	RMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
04	NPN	IPD	16 21 30.00				33	2.4	67.0	319	90	11.37	11.24	0.08	
04	GLR	EPD	16 21 30.10						69.4	23	90	11.42	11.64	-0.07	
04	PGL	EPU4	16 21 30.30				17	1.8	73.0	245	90	11.62	12.22	-0.60	
04	SCV	IPU	16 21 31.25						76.8	302	90	12.57	12.45	0.12	
04	OSM	EPD	16 21 33.40				18	1.9	87.9	216	90	14.72	14.64	0.08	VERY E
04	GPR	EPD	16 21 34.45				31	2.4	92.9	12	90	15.77	15.46	0.31	
04	TPO	EPD	16 21 35.16				22	2.2	98.7	282	90	16.48	16.41	0.07	
04	GVN	IPD	16 21 35.69				29	2.4	99.9	295	90	17.01	16.59	0.42	

FEB H = 4 36 15.08 UTC RMS = 0.12 NO = 5 FREE DEPTH SOLUTION
05 LAT = 37.076 N ERX = 0.7 ERM = 1.2 AVFM = 1.2 Q = C
LONG = 116.198 W ERY = 0.9 GAP = 93 AVXM = QS = B SILENT CANYON - YUCCA FLAT
DEPTH = 7.89 KM ERZ = 3.2 NM = QD = D

05	BGB	IPD	4 36 16.63				16	1.4	4.9	213	146	1.55	1.70	-0.10	
05	EPN	IPD	4 36 18.55						19.1	324	109	3.47	3.63	-0.16	
05	CPX	EPD	4 36 18.92						20.4	142	108	3.84	3.82	0.01	
05	GLR	EPU4	4 36 18.68						21.2	49	107	3.60	3.95	-0.20	
		ESU	4 36 21.05									6.77	6.65	0.12	
05	LCP	EP 4	4 36 20.00				9	1.1	24.6	174	105	4.92	4.48	0.44	
05	BLT	EP 3	4 36 23.70						43.3	7	98	8.62	7.47	1.15	VERY E
05	GPR	EP 4	4 36 24.18				7	1.0	47.6	53	98	9.10	8.15	0.94	
05	TPK	IPU4	4 36 25.11						58.0	292	96	10.03	9.84	0.19	
		ESU	4 36 32.46									17.38	17.22	0.16	

FEB H = 5 56 15.97 UTC RMS = 0.01 NO = 5 FREE DEPTH SOLUTION
06 LAT = 37.184 N ERX = 0.1 ERM = 0.2 AVFM = 1.2 Q = C
LONG = 116.579 W ERY = 0.2 GAP = 146 AVXM = QS = A THIRSTY CANYON
DEPTH = 10.02 KM ERZ = 1.1 NM = QD = D

06	TPK	IPU	5 56 20.19				11	1.3	22.1	295	112	4.22	4.21	0.01	
06	EPN	IPU	5 56 20.30						22.9	81	111	4.33	4.33	0.00	NOISE
06	NPN	IPU	5 56 20.48				10	1.2	24.1	242	110	4.51	4.52	-0.01	
06	BGB	EPU4	5 56 22.02						35.1	117	104	6.05	6.23	-0.13	
06	BSP	EP 4	5 56 23.80				7	1.0	43.0	132	101	7.83	7.48	0.35	
06	LCP	EPD	5 56 24.43				9	1.2	51.7	135	99	8.46	8.87	-0.02	
06	LSM	EP	5 56 25.61						56.4	151	99	9.64	9.62	0.02	VERY E

FEB H = 6 49 16.34 UTC RMS = 0.00 NO = 5 FREE DEPTH SOLUTION
06 LAT = 37.190 N ERX = 0.1 ERM = 0.1 AVFM = 0.8 Q = C
LONG = 116.612 W ERY = 0.1 GAP = 196 AVXM = QS = A THIRSTY CANYON
DEPTH = 20.65 KM ERZ = 0.2 NM = QD = D

06	TPK	IPU	6 49 21.13				5	0.6	19.2	297	136	4.79	4.79	0.00	
		ISU4	6 49 24.33									7.99	8.38	-0.39	
06	NPN	IPU	6 49 21.46				7	0.9	22.0	257	132	5.12	5.12	0.00	
		ISU	6 49 25.29									8.95	8.95	-0.00	
06	EPN	IPD4	6 49 24.69						25.7	84	127	8.15	5.58	2.57	
06	BGB	EPU4	6 49 23.05						38.1	116	117	6.71	7.29	-0.53	
06	LCP	EP	6 49 26.86				7	1.0	54.3	133	110	9.72	9.72	0.00	
06	LSM	EP	6 49 26.69						59.5	149	108	10.35	10.36	-0.00	

FEB H = 9 0 55.46 UTC RMS = 0.23 NO = 12 FREE DEPTH SOLUTION
06 LAT = 36.655 N ERX = 0.5 ERM = 0.8 AVFM = 1.8 Q = B
LONG = 116.289 W ERY = 0.6 GAP = 130 AVXM = QS = B LATHROP WELLS
DEPTH = 0.64 KM ERZ = 1.6 NM = QD = B

06	SOM	IPU	9 0 55.81				10	1.7	4.5	256	98	0.35	1.21	-0.86	
06	LSM	IPD	9 0 57.42						9.4	9	38	1.96	2.10	-0.14	
06	LOP	IPU	9 1 0.23				24	2.0	24.6	26	38	4.77	4.57	0.20	
06	BSP	IPU	9 1 0.95						30.6	12	38	5.49	5.54	-0.06	
06	ARO	IPU4	9 1 0.20				17	1.7	32.3	292	38	4.74	5.83	-1.09	
06	APR	EPD4	9 0 59.90				13	1.5	33.1	210	38	4.44	5.95	-1.51	
06	CPX	IPU	9 1 2.05						36.7	34	38	6.59	6.53	0.05	
06	BGB	IPD	9 1 2.94				21	1.9	42.8	7	38	7.48	7.53	-0.00	
06	SPRG	IPD	9 1 3.00						43.1	84	38	7.54	7.58	-0.04	
06	GWV	EP 4	9 1 6.95				14	1.6	62.3	213	39	11.49	10.70	0.69	
06	GLR	EPD	9 1 6.90						65.8	22	38	11.44	11.15	0.44	
06	NPN	EP	9 1 6.81						66.7	315	38	11.35	11.42	-0.08	
06	TPK	IPU	9 1 9.29						82.1	326	38	13.83	13.92	-0.09	
06	GPR	EPD4	9 1 11.36				20	2.0	88.3	31	38	15.90	14.93	0.97	
06	OSM	EPU	9 1 11.30						92.6	214	38	15.84	15.62	0.22	
06	GVN	EP	9 1 12.09						101.6	292	38	16.63	17.09	-0.46	
06	TPU	EPU4	9 1 16.72				20	2.2	119.8	28	38	21.26	20.04	1.21	
06	PPN	EPU4	9 1 19.72						138.3	53	30	24.26	22.96	1.30	

	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SMAG	QUA	FMAG	DIST (NM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
20	LCH	EP	2 52 58.29				9	1.2	33.3	262	102	5.95	5.89	0.06	
20	NPN	EP	2 53 0.15						44.0	118	99	7.41	7.43	-0.11	
		ISD	2 53 6.30									13.46	13.87	0.09	
20	MZP	EPUG	2 53 7.09						68.0	349	99	14.75	8.25	6.78	
20	GLR	EPDG	2 53 11.45						112.0	94	94	19.51	18.60	1.07	

FEB M = 4 44 18.52 UTC RMS = 0.08 NO = 6 — FREE DEPTH SOLUTION
21 LAT = 36.924 N ERX = 0.8 ERM = 1.1 AVFM = 2.0 Q = D
LONG = 117.751 W ERY = 0.7 GAP = 220 AVXM = QS = C — DRY MOUNTAIN
DEPTH = 17.68 KM ERZ = 5.5 NM = QD = D

21	TMO	EPD	4 44 24.81			23	2.0	33.2	111	116	6.29	6.37	-0.08	
21	LCH	EP 4	4 44 23.99			19	1.8	35.7	15	115	5.47	6.73	-1.26	
21	GVN	EPUG	4 44 25.15			22	1.9	37.3	77	114	6.63	6.97	-0.34	
21	MCA	EPD	4 44 27.75			21	2.0	51.9	126	108	9.23	9.19	0.04	
21	PPK	EP	4 44 28.68			14	1.6	57.5	346	106	10.16	10.06	0.10	
21	MGM	EPU	4 44 29.16					61.7	21	105	10.64	10.72	-0.08	
21	SGV	EPU	4 44 29.60			19	1.9	64.3	84	104	11.08	11.12	-0.04	
		ES	4 44 38.05								19.53	19.47	0.06	
21	NPN	EPUG	4 44 33.27			16	1.8	84.8	78	53	14.75	14.20	0.55	
21	BRO	EPDG	4 44 36.23			15	1.8	102.0	100	53	17.71	16.44	1.27	
21	BSM	EPDG	4 44 41.95			22	2.3	132.5	143	53	23.43	20.40	3.03	
21	BGB	EPDG	4 44 40.95			24	2.4	136.2	85	53	22.43	20.87	1.61	
21	SPRG	EPDG	4 44 48.56					175.1	98	53	30.04	25.93	4.11	

FEB M = 4 52 0.85 UTC RMS = 0.03 NO = 5 — FREE DEPTH SOLUTION
21 LAT = 36.926 N ERX = 4.6 ERM = 4.7 AVFM = 1.6 Q = D
LONG = 117.717 W ERY = 1.0 GAP = 307 AVXM = QS = C — DRY MOUNTAIN
DEPTH = 1.58 KM ERZ = 3.7 NM = QD = D

21	TMO	EPU	4 52 6.16			18	1.7	30.5	115	38	5.31	5.34	-0.03	
21	GVN	EPU	4 52 6.02			15	1.6	34.5	75	38	5.97	5.96	-0.01	
21	LCH	EPDG	4 52 5.54			15	1.6	35.1	10	38	4.69	6.08	-1.39	
21	MCA	EPD	4 52 9.30			18	1.6	49.5	128	38	8.65	8.63	0.02	
21	PPK	EP 4	4 52 9.56			10	1.3	50.3	343	38	8.71	9.85	-1.14	
21	SGV	EPU	4 52 11.24			13	1.6	61.3	84	38	10.39	10.35	0.04	
		ES	4 52 18.95								18.10	18.11	-0.01	
21	NPN	EP 4	4 52 25.22					81.9	78	38	20.37	13.70	10.67	
21	BRO	EPDG	4 52 17.75			14	1.3	99.1	100	38	16.90	16.49	0.41	
21	BGB	EPDG	4 52 23.30					133.2	85	38	22.45	22.04	0.46	

FEB M = 3 37 52.71 UTC RMS = 0.10 NO = 6 — FREE DEPTH SOLUTION
22 LAT = 37.378 N ERX = 0.5 ERM = 1.0 AVFM = 1.9 Q = C
LONG = 115.65[illegible] W ERY = 0.9 GAP = 152 AVXM = QS = B — GROOM LAKE
DEPTH = 10.45 KM ERZ = 2.0 NM = QD = C

22	GMR	IPUG	3 37 54.70			30	2.1	11.6	245	129	1.99	2.75	-0.76	
22	GLR	IPD	3 37 59.37			10	1.3	38.0	238	103	6.66	6.70	0.12	
22	BLT	EPD	3 38 0.23					43.7	282	102	7.52	7.60	-0.08	
22	MTI	IPUG	3 38 0.19			22	2.0	47.2	45	101	7.48	8.16	-0.48	
		ISD	3 38 6.70								13.99	13.92	0.07	
22	EPR	EPUG	3 38 0.51			19	1.9	47.4	119	101	7.80	8.19	-0.39	
22	PRN	IPU	3 38 1.70			21	2.0	53.5	87	100	8.99	9.16	-0.17	
		ISU	3 38 8.70								15.99	16.03	-0.04	
22	CPX	EPUG	3 38 2.97					61.5	216	98	10.26	10.46	-0.20	
22	EPN	IPUG	3 38 3.68					62.2	253	98	10.97	10.57	0.40	
22	BGB	EP 4	3 38 2.70			20	2.0	63.5	234	98	9.99	10.78	-0.74	
		ESDG	3 38 11.62								18.91	18.78	0.13	
22	NPN	EPUG	3 38 6.15			25	2.2	70.2	64	97	13.44	11.86	1.58	
22	LOP	EP 4	3 38 5.64			16	1.8	74.0	218	97	12.93	12.47	0.46	
22	NPN	EPD	3 38 10.89			18	2.0	108.6	252	53	18.18	18.01	0.18	

FEB M = 5 56 24.61 UTC RMS = 0.03 NO = 5 — FREE DEPTH SOLUTION
24 LAT = 36.472 N ERX = 0.5 ERM = 0.6 AVFM = 0.7 Q = B
LONG = 116.454 W ERY = 0.3 GAP = 177 AVXM = QS = A — ASH MEADOWS
DEPTH = 0.48 KM ERZ = 0.5 NM = QD = C

24	AMM	EPD	5 56 26.80			7	0.8	8.4	192	134	2.19	2.21	-0.02	
		ISU	5 56 24.46								3.85	3.86	-0.01	
24	SDM	EP 4	5 56 28.44			5	0.6	21.9	28	109	3.83	4.12	-0.29	
		ISU	5 56 31.85								7.24	7.20	0.04	
24	LSM	EPD	5 56 30.52					33.9	29	103	5.91	5.99	-0.08	
		ESDG	5 56 35.61								11.20	10.48	0.72	
24	GNV	EP 4	5 56 36.95					37.1	212	101	11.44	6.51	4.83	VERY E
		ES	5 56 36.20								11.59	11.56	0.02	

LOCAL-EQUAL DATA PRINT

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIM (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
28	PPK	EP 4	19 3 59.87				12	1.5	69.1	293	95	11.70	11.63	0.08	
28	PPT	IPU4	19 3 59.70				23	2.1	70.4	149	95	11.53	11.84	-0.21	
28	SVP	EPD4	19 4 1.70						80.2	318	94	13.53	13.42	-0.04	
28	BGB	IPD4	19 4 2.95						87.1	101	94	14.78	14.54	0.29	NOISE
28	PGE	EPD	19 4 3.70				17	1.9	93.0	173	93	15.53	15.51	0.02	
28	GPR	EPD4	19 4 9.55				27	2.4	127.0	82	53	21.38	20.71	0.67	

MAR H = 7 36 12.56 UTC RMS = 0.04 NO = 5 — FREE DEPTH SOLUTION
01 LAT = 37.256 N ERX = 0.5 ERM = 0.7 AVFM = 1.6 Q = D
LONG = 115.622 W ERY = 0.5 GAP = 134 AVXM = QS = C — GROOM LAKE
DEPTH = 8.70 KM ERZ = 10.5 NM = QD = D

01	GPR	IPU4	7 36 15.24						15.8	303	115	2.66	3.18	-0.50	
01	GLN	EPD	7 36 18.70						35.7	260	101	6.18	6.27	0.02	
01	EPR	EPU4	7 36 19.12						39.8	104	100	6.56	6.93	-0.37	
01	CPX	EP 4	7 36 21.88						53.1	227	98	9.32	9.07	0.25	
01	PRN	EPD	7 36 21.65				16	1.7	53.4	72	98	9.09	9.12	-0.03	
01	MTI	EP	7 36 21.92				18	1.3	56.0	33	97	9.36	9.53	0.03	
01	BGB	EP	7 36 22.65				14	1.6	59.0	246	97	9.89	10.02	-0.08	
01	SPRG	EP	7 36 23.50						64.5	195	96	10.94	10.91	0.03	
01	LOP	EPU4	7 36 25.17						65.9	227	96	12.61	11.12	1.48	
01	BMT	EP 4	7 36 29.80						80.9	272	95	16.44	13.96	2.48	

MAR H = 3 18 50.52 UTC RMS = 0.00 NO = 5 — FREE DEPTH SOLUTION
03 LAT = 37.520 N ERX = 0.1 ERM = 0.1 AVFM = 0.9 Q = C
LONG = 117.730 W ERY = 0.0 GAP = 180 AVXM = QS = A — SILVER PEAK
DEPTH = -8.66 KM ERZ = 0.0 NM = QD = D

03	PPK	EPD	3 18 54.05				6	0.7	18.2	235	112	3.53	3.53	-0.01	
		ISD	3 18 56.71									6.19	6.18	0.00	
03	SVP	IPU	3 18 54.05				12	1.4	22.4	346	108	4.33	4.17	0.01	
		ES	3 18 58.08									7.56	7.56	-0.00	
03	MGM	IPU4	3 18 54.38				4	0.4	23.1	112	108	3.86	4.28	-0.43	
03	LCM	EP	3 18 56.31				7	0.9	32.7	164	103	5.79	5.79	-0.00	
		ESD4	3 18 0.10									-50.42	10.13	-60.55	
03	HMN	EP 4	3 19 7.07						95.0	121	94	16.55	15.85	0.70	

MAR H = 16 59 55.12 UTC RMS = 0.09 NO = 12 — FREE DEPTH SOLUTION
03 LAT = 37.500 N ERX = 0.3 ERM = 0.7 AVFM = 1.9 Q = C
LONG = 116.539 W ERY = 0.7 GAP = 85 AVXM = QS = C — STINKING SPRING
DEPTH = 7.36 KM ERZ = 6.2 NM = QD = C

03	CTS	IPD	16 59 59.24				13	1.4	22.6	313	105	4.12	4.15	-0.04	NOISE
03	KRN	IPU	16 60 0.39						29.1	38	102	5.27	5.18	0.09	NOISE
03	BLT	EPU	16 60 1.21				17	1.7	36.0	97	99	6.09	6.28	-0.19	NOISE
03	HMN	EP	16 60 4.09				25	2.1	52.7	208	96	5.97	8.98	-0.01	
03	BGB	EPD	16 60 5.04				17	1.8	58.3	152	96	9.92	9.87	0.09	
03	GVN	EP	16 60 6.40				10	1.4	67.6	251	95	11.28	11.38	-0.11	
03	GPR	EPU	16 60 6.84				20	2.0	70.4	105	95	11.72	11.84	-0.13	
03	SGV	EP	16 60 7.30				22	2.1	72.4	217	95	12.18	12.16	0.01	
03	MGM	EP 4	16 60 9.05				16	1.8	84.9	266	94	13.93	14.20	-0.27	
03	GVN	EP	16 60 10.14				23	2.2	90.2	232	94	15.02	15.06	-0.04	
03	FMT	EPD	16 60 11.42				21	2.1	97.9	193	93	16.30	16.30	0.10	
03	LCM	EP	16 60 12.35				14	1.8	102.5	253	93	17.23	17.05	0.18	
03	TPD	EPU4	16 60 13.55				20	2.1	109.1	225	93	18.43	18.12	0.30	
03	SVP	EP 4	16 60 14.75				18	2.0	114.0	282	93	19.63	18.91	0.56	
03	MCA	EP	16 60 14.30				20	2.1	115.3	215	93	19.18	19.13	0.05	
03	PPK	EP 4	16 60 16.19						121.3	266	53	21.07	19.95	1.12	

MAR H = 7 45 28.85 UTC RMS = 0.05 NO = 10 — FREE DEPTH SOLUTION
06 LAT = 35.720 N ERX = 1.0 ERM = 2.8 AVFM = Q = D
LONG = 117.146 W ERY = 2.6 GAP = 201 AVXM = QS = C — SEARLES LAKE
DEPTH = 1.93 KM ERZ = 1.0 NM = QD = D

06	USH	IPD	7 45 35.22						37.1	43	90	6.37	6.38	-0.01	
06	GRV	IPD	7 45 40.19						67.2	40	90	11.34	11.28	-0.04	
06	PGE	IPD	7 45 40.58						70.1	6	90	11.73	11.76	-0.03	
06	APN	IPU4	7 45 45.10						96.5	39	90	14.25	14.05	0.20	
06	NOP	EPU4	7 45 44.92						100.5	63	90	16.07	16.69	-0.62	
06	MCA	IPD	7 45 46.05						103.7	353	90	17.20	17.21	-0.01	
06	FMT	EPD	7 45 46.65						107.3	18	90	17.60	17.79	0.11	
06	TPD	IPD4	7 45 48.85						122.7	349	90	20.00	20.30	-0.30	
06	SCM	IPU4	7 45 50.55						125.8	35	90	21.70	20.81	0.89	
06	SGV	EPU4	7 45 51.69						180.3	4	53	22.84	22.95	-0.11	

9 0 8 1 4 0 2 2 2

LOCAL-LEVEL DATA (PM)

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
14	JCN	IPU4	1 34 25.86				18	1.2	32.4	110	108	4.96	5.88	-0.92	
14	CDM1	IPU	1 34 27.60				29	2.2	37.2	17	106	6.10	6.62	0.07	
		ISU	1 34 33.71									12.81	11.59	1.22	
14	CDM5	IPU	1 34 27.62				18	1.6	37.2	17	106	6.72	6.62	0.09	
		ESD	1 34 32.58									11.66	11.59	0.09	
14	LOP	EPD	1 34 28.29				13	1.5	42.6	35	104	7.39	7.47	-0.09	
14	BGB	EPD	1 34 31.15						58.4	19	100	10.25	9.99	0.31	

MAR M = 11 12 39.75 UTC RMS = 0.08 NO = 8 — FREE DEPTH SOLUTION
14 LAT = 37.198 N ERX = 0.3 ERM = 0.5 AVFM = 1.9 Q = B
LONG = 116.678 W ERY = 0.3 GAP = 108 AVXM = QS = B — THIRSTY CANYON
DEPTH = 17.22 KM ERZ = 2.5 NM = QD = A

14	EPM	IPD	11 12 46.30						31.2	85	117	6.55	6.04	0.51	
14	BGB	EPU	11 12 47.55						43.1	113	110	7.80	7.81	0.08	
14	BRO	EP 4	11 12 52.28						47.6	175	108	12.53	8.50	4.03	
		ESU	11 12 56.60									14.85	14.88	-0.03	
14	CDM5	EPU4	11 12 47.90				18	1.8	48.4	139	108	8.15	8.63	-0.48	
		ISU4	11 12 53.97									14.22	15.10	-0.88	
14	CDM1	IPU4	11 12 47.95				21	1.9	48.4	139	108	8.20	8.63	-0.43	
14	SSP	IPD	11 12 48.70						50.0	126	108	8.95	8.88	0.08	
14	CTS	EPD	11 12 48.60						50.2	355	108	8.85	8.90	-0.05	
14	GPM	EPD	11 12 49.20						53.4	283	107	9.45	9.41	0.04	
14	BLT	EPD4	11 12 57.95						56.5	58	106	18.20	9.88	8.32	
14	LCP	EPD	11 12 58.00						58.5	130	105	18.25	10.20	8.06	
14	LSM	IPD	11 12 58.35						61.5	144	104	18.60	10.67	-0.07	
14	FMT	EPD4	11 12 56.02						61.8	189	104	16.27	10.72	5.66	
14	CPX	IPD4	11 12 41.55						61.9	118	104	1.80	10.74	-8.93	

MAR M = 20 52 51.48 UTC RMS = 0.05 NO = 6 — FREE DEPTH SOLUTION
14 LAT = 36.603 N ERX = 1.2 ERM = 1.3 AVFM = 1.2 Q = C
LONG = 116.296 W ERY = 0.5 GAP = 105 AVXM = QS = B — LATHROP WELLS
DEPTH = 10.89 KM ERZ = 1.5 NM = QD = D

14	SDH	IPU	20 52 54.06						6.1	321	149	2.26	2.21	0.05	
14	LSM	EPU	20 52 54.95						15.3	8	123	3.15	3.28	-0.13	
14	JCN	EPU	20 52 56.50				6	0.8	25.0	136	111	4.70	4.70	0.00	
14	CDM1	IPU	20 52 57.06				16	1.6	28.6	356	109	5.26	5.25	0.01	
14	CDM5	EP	20 52 57.10				12	1.4	28.6	356	109	5.30	5.25	0.05	
14	LCP	EP	20 52 57.29				7	0.9	30.2	22	108	5.49	5.49	0.00	

MAR M = 3 39 48.97 UTC RMS = 0.12 NO = 6 — FREE DEPTH SOLUTION
15 LAT = 37.516 N ERX = 0.5 ERM = 0.8 AVFM = Q = B
LONG = 117.746 W ERY = 0.6 GAP = 122 AVXM = QS = B — SILVER PEAK
DEPTH = 13.33 KM ERZ = 2.1 NM = QD = B

15	PPK	IPD	3 39 52.65						17.2	235	126	3.68	3.77	-0.09	
		ESD	3 39 55.58									6.61	6.59	0.02	
15	SVP	EP	3 39 53.47						22.6	348	118	4.50	4.50	-0.15	
		ESU	3 39 57.20									8.23	8.14	0.09	
15	MGM	EPU4	3 39 52.89						23.7	111	117	3.92	4.67	-0.75	
		ES	3 39 57.05									8.08	8.18	-0.09	
15	LCM	EP	3 39 55.12						32.5	164	110	6.15	5.97	0.18	
15	MPN	EPD4	3 40 5.50						95.6	120	97	16.53	16.01	0.53	

MAR M = 4 46 24.85 UTC RMS = 0.10 NO = 15 — FREE DEPTH SOLUTION
15 LAT = 36.807 N ERX = 0.3 ERM = 0.4 AVFM = 3.2 Q = C
LONG = 116.012 W ERY = 0.3 GAP = 83 AVXM = QS = C — LATHROP WELLS
DEPTH = 0.57 KM ERZ = 120.3 NM = QD = C

15	CPX	IPU4	4 46 27.52				114	3.5	14.2	345	38	2.67	2.89	-0.22	
15	LCP	IPU	4 46 27.80				114	3.3	14.6	291	38	2.95	3.00	-0.05	
15	SPRG	IPU4	4 46 28.61				101	3.2	22.0	125	38	3.76	4.16	-0.40	
15	SSP	IPD	4 46 29.09						22.6	305	38	4.24	4.26	-0.02	
15	LSM	IPD	4 46 29.30				91	3.1	24.4	252	38	4.45	4.55	-0.10	
15	CDM5	IPU4	4 46 29.80				121	3.4	27.9	282	38	4.95	5.12	-0.17	
15	CDM1	IPU	4 46 29.89				169	3.7	27.9	282	38	5.04	5.12	-0.08	
15	BGB	IPU4	4 46 30.34				119	3.4	32.0	323	38	5.49	5.88	-0.24	
15	SDH	IPD4	4 46 30.60				109	3.3	34.2	236	38	5.75	6.15	-0.40	
15	JCN	IPD	4 46 32.25				88	3.2	41.5	141	38	7.40	7.34	0.06	
15	GLR	IPU4	4 46 31.97				69	3.0	43.6	359	38	7.12	7.67	-0.40	
15	EPM	IPD4	4 46 33.82						53.0	328	38	8.97	9.21	-0.24	
15	BRO	EPD	4 46 34.40				48	2.7	55.0	265	38	9.55	9.52	0.03	
15	APM	IPD	4 46 35.50				89	3.2	61.4	222	38	10.65	10.57	0.08	
15	GPM	EPU	4 46 35.50				84	3.2	62.3	20	38	10.65	10.71	-0.06	

STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNAG	CUM	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS

1980

MAR M = 3 5 53.94 UTC RMS = 0.05 NO = 5 — FREE DEPTH SOLUTION
22 LAT = 37.264 N ERX = 0.3 ERM = 0.4 AVFM = 0.9 Q = C
LONG = 117.556 W ERY = 0.2 GAP = 210 AVXM = QS = A — MAGRUDER MOUNTAIN
DEPTH = 6.20 KM ERZ = 1.6 NM = QD = D

22	LCM	IPD	3	5	56.06			11	1.2	9.8	236	118	2.12	2.13	-0.01
22	MGM	EP 4	3	5	57.90			5	0.6	18.2	17	105	3.96	3.42	0.55
		ISD4	3	5	0.60								-53.14	5.98	-59.11
22	GPM	EPU	3	5	58.62			5	0.6	26.4	86	100	6.68	6.71	-0.02
		ISU4	3	5	2.60								-51.34	8.23	-59.57
22	GVN	IPU	3	6	0.40			8	1.1	36.7	149	97	6.46	6.36	0.10
		ES	3	6	8.99								11.05	11.13	-0.08
22	NPM	EPU	3	6	5.62					69.3	109	94	11.68	11.65	0.04

MAR M = 22 48 40.44 UTC RMS = 0.04 NO = 6 — FREE DEPTH SOLUTION
25 LAT = 37.600 N ERX = 0.2 ERM = 0.3 AVFM = 1.8 Q = D
LONG = 117.643 W ERY = 0.3 GAP = 194 AVXM = QS = C — SILVER PEAK
DEPTH = 2.47 KM ERZ = 6.9 NM = QD = D

25	MGM	IPU	22	48	48.29			15	1.6	21.9	144	92	3.85	3.92	-0.07
25	MZP	EPU	22	48	48.75					25.5	64	92	4.31	4.51	-0.01
25	PPK	IPD	22	48	49.69			14	1.5	30.3	230	92	5.25	5.28	-0.03
25	LCM	IPU4	22	48	51.16			17	1.7	40.6	180	90	6.72	6.95	-0.23
25	GPM	EPU	22	48	52.52			7	1.0	47.5	134	90	8.08	8.08	-0.00
25	GVN	EPU	22	48	56.49			23	2.1	71.6	158	90	12.05	11.99	0.06
25	SGV	EPU	22	48	59.08			22	2.1	87.5	142	90	14.66	14.58	0.06
25	NPM	EPU4	22	49	0.19			26	2.3	93.1	128	90	15.75	15.50	0.25

MAR M = 3 13 7.09 UTC RMS = 0.13 NO = 5 — FIXED DEPTH SOLUTION
26 LAT = 36.859 N ERX = 0.5 ERM = 0.7 AVFM = Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.169 W ERY = 0.4 GAP = 114 AVXM = QS = A — LATHROP WELLS
DEPTH = 5.00 KM ERZ = 1.1 NM = QD = D

26	LCP	IPD	3	13	8.36					0.6	165	172	1.27	0.99	0.28
		ISD4	3	13	10.00								2.91	1.73	1.18
26	SSP	EPU	3	13	8.82					8.5	329	114	1.73	1.86	-0.13
26	CPX	EP 4	3	13	10.65					12.5	52	106	3.56	2.47	1.09
		ESD	3	13	11.40								4.31	4.32	-0.01
26	LSM	IPU	3	13	10.10					16.2	214	102	3.01	3.04	-0.03
		ISU	3	13	12.35								5.26	5.32	-0.06

MAR M = 5 15 43.73 UTC RMS = 0.11 NO = 5 — FREE DEPTH SOLUTION
26 LAT = 37.174 N ERX = 0.8 ERM = 1.6 AVFM = 1.3 Q = C
LONG = 117.612 W ERY = 1.4 GAP = 188 AVXM = QS = B — MAGRUDER MOUNTAIN
DEPTH = 11.11 KM ERZ = 2.6 NM = QD = D

26	LCM	IPU	5	15	46.09			12	1.3	7.4	335	144	2.36	2.36	-0.00
26	GVN	EPU	5	15	49.55			10	1.2	30.7	129	108	5.62	5.58	0.25
26	GPM	EPU4	5	15	48.45					34.2	66	106	4.72	6.13	-1.41
		ISD	5	15	54.42								10.69	10.73	-0.04
26	PPK	EP	5	15	50.49					38.3	317	104	6.76	6.78	-0.01
26	JGV	EPD	5	15	53.13					55.8	113	100	9.40	9.55	-0.15
26	NPM	IPD4	5	15	55.20					71.3	98	98	11.47	12.05	-0.58
26	BPT	EPD4	5	15	57.45					96.5	83	96	13.72	16.12	-2.79

MAR M = 20 1 7.02 UTC RMS = 0.01 NO = 5 — FREE DEPTH SOLUTION
27 LAT = 37.117 N ERX = 0.1 ERM = 0.2 AVFM = 1.0 Q = C
LONG = 117.368 W ERY = 0.2 GAP = 126 AVXM = QS = A — MT. JACKSON
DEPTH = 6.58 KM ERZ = 0.7 NM = QD = D

27	GVN	IPD4	20	1	9.46			8	1.0	12.9	172	113	2.44	2.62	-0.18
27	GVN	IPD4	20	1	9.46					12.9	172	113	2.44	2.62	-0.18
		ISU	20	1	11.00								4.58	4.58	0.00
27	GPM	EPD	20	1	11.10					22.3	24	103	4.08	4.08	0.01
27	LCM	EP	20	1	12.05					28.4	297	100	5.03	5.03	-0.00
27	SGV	IPD	20	1	12.44			7	0.9	33.1	117	99	5.42	5.40	0.02
		ESU	20	1	17.14								10.12	10.15	-0.03

MAR M = 2 8 43.78 UTC RMS = 0.03 NO = 4 — FREE DEPTH SOLUTION
28 LAT = 36.324 N ERX = 0.1 ERM = 0.2 AVFM = 2.0 Q = B

VERY E

1988	STA	PHASE	TIME (UTC)	AMP (MU)	PIN (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	IRDS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
02 LAT = 36.832 N				ERX = 2.2	ERM = 3.0			AVFM = 1.5	Q = D						
LONG = 115.993 W				ERY = 1.9	GAP = 214			AVXM =	QS = C			MERCURY			
DEPTH = 9.57 KM				ERZ = 9.1	NM =				QD = D						
02	LOP	IPU	18 13 8.76				12	1.3	15.8	279	118	3.26	3.24	0.02	
02	MCY	EPD	18 13 9.24				11	1.3	19.1	172	114	3.74	3.72	0.02	
02	SSP	EP	18 13 9.85				16	1.6	22.6	297	110	4.35	4.25	0.10	
02	LSM	IPU	18 13 10.00						26.9	248	107	4.50	4.92	-0.42	
02	CDM1	IPU	18 13 10.89						29.1	276	106	5.39	5.26	0.13	
02	CDM5	EPD	18 13 10.98				16	1.6	29.1	276	106	5.48	5.26	0.14	
02	BGB	EP	18 13 10.70						31.0	318	105	5.20	5.56	-0.35	

APR M = 18 20 41.43 UTC				RMS = 0.27	NO = 44							FREE DEPTH SOLUTION			
02 LAT = 36.855 N				ERX = 0.4	ERM = 0.5			AVFM = 3.0	Q = C						
LONG = 115.957 W				ERY = 0.4	GAP = 55			AVXM =	QS = B			MERCURY			
DEPTH = 0.88 KM				ERZ = 3.7	NM =				QD = C						
02	CPX	IPU0	18 20 43.76				128	3.4	12.2	312	38	2.33	2.51	-0.18	
02	LOP	IPU	18 20 44.90				127	3.4	18.8	270	38	3.47	3.58	-0.11	
02	MCY	IPU0	18 20 45.19				100	3.5	21.4	181	38	3.76	4.00	-0.25	
02	SPRG	IPU	18 20 45.45				120	3.4	22.1	144	38	4.02	4.12	-0.10	
02	SSP	IPD	18 20 45.85				163	3.6	26.6	289	38	4.42	4.52	-0.11	
02	LSM	IPD	18 20 46.79				185	3.8	30.9	245	38	5.36	5.55	-0.19	
02	BGB	IPU	18 20 46.80				132	3.5	31.6	310	38	5.37	5.66	-0.29	
02	CDM5	IPU	18 20 46.89				116	3.4	32.2	271	38	5.46	5.75	-0.29	
02	CDM1	IPD	18 20 46.90				152	3.6	32.2	271	38	5.47	5.75	-0.28	
02	GLR	IPU	18 20 47.95				101	3.3	38.6	352	38	6.52	6.88	-0.29	
02	SDM	IPD	18 20 48.50				81	3.1	41.2	236	38	7.07	7.22	-0.15	
02	JDN	IPD	18 20 49.85				97	3.1	47.9	196	38	8.42	8.30	0.11	
02	EPN	IPD	18 20 50.10						51.3	321	38	8.67	8.91	-0.24	
02	GWR	IPD	18 20 51.06				110	3.4	55.7	17	38	9.63	9.58	0.05	
02	BRO	IPD	18 20 51.99				79	3.1	60.5	260	38	10.56	10.37	0.19	
02	APN	IPD	18 20 53.29				52	2.8	68.5	150	38	11.86	11.67	0.19	
02	AMR	IPD	18 20 53.15				101	3.4	68.7	222	38	11.72	11.69	0.03	
02	BLT	IPD	18 20 52.85				93	3.3	69.2	347	38	11.42	11.77	-0.35	
02	BMT	IPD	18 20 54.59				117	3.5	70.8	313	38	13.16	11.90	1.26	
02	EPR	IPD	18 20 54.61				140	3.7	76.9	63	38	13.18	13.03	0.15	
02	FMT	IPU	18 20 54.65				84	3.2	77.2	252	38	13.22	13.08	0.14	
02	NPN	IPU	18 20 55.10				107	3.5	80.7	288	38	13.67	13.64	0.03	
02	SPRG	IPU0	18 20 54.80				89	3.3	81.5	118	38	13.37	13.77	-0.40	
02	NOP	IPD	18 20 55.41				66	3.1	82.5	192	38	13.98	13.98	0.00	
02	TPU	IPD	18 20 55.92				98	3.4	87.6	18	38	14.49	14.77	-0.28	
02	SGV	IPU	18 20 57.65				124	3.7	96.9	278	38	16.22	16.28	-0.06	
02	GHV	IPD	18 20 57.93				103	3.5	97.9	221	38	16.50	16.44	0.06	
02	PRN	IPD0	18 20 58.79				91	3.4	101.3	53	38	17.36	16.99	0.37	
02	QCS	EPD	18 20 58.60				91	3.4	101.4	2	38	17.17	17.01	0.16	
02	MTI	IPU	18 20 59.66				90	3.4	109.5	34	38	18.23	18.33	-0.11	
02	CTS	EPD	18 21 0.18				56	3.0	110.7	322	38	18.75	18.52	0.22	
02	PGE	IPU	18 21 0.80				83	3.4	114.0	241	38	19.37	19.06	0.31	
02	GVN	IPU	18 21 2.40				98	3.5	120.6	278	38	20.97	20.78	0.19	
02	GPN	IPD0	18 21 2.79				59	3.1	125.9	293	38	21.36	21.00	0.36	
02	NPN	IPU0	18 21 2.81				103	3.6	126.6	46	38	21.38	21.10	0.28	
02	GSM	IPD0	18 21 3.35						128.1	220	38	21.92	21.36	0.56	
02	NPN	IPU	18 21 3.01				107	3.6	129.3	15	38	21.58	21.54	0.04	
02	TMO	IPU0	18 21 3.45				74	3.3	129.6	268	38	22.02	21.60	0.42	
02	RVE	EPD	18 21 4.37						131.0	351	38	22.94	21.82	1.12	
		EDU	18 21 18.60									37.37	38.18	-0.81	
02	SPG	IPD0	18 21 4.89				141	3.9	138.5	35	30	23.46	22.93	0.52	
02	MGM	EPD	18 21 6.95				89	3.6	151.6	295	30	25.52	24.63	0.89	
02	LCM	IPU	18 21 7.55				67	3.3	156.3	286	30	26.12	25.24	0.88	
02	MZP	IPU	18 21 7.65				55	3.2	157.5	307	30	26.22	25.40	0.82	

APR M = 21 14 53.76 UTC				RMS = 0.08	NO = 14							FREE DEPTH SOLUTION			
02 LAT = 36.868 N				ERX = 0.3	ERM = 0.4			AVFM = 2.2	Q = B						
LONG = 115.970 W				ERY = 0.2	GAP = 55			AVXM =	QS = A			MERCURY			
DEPTH = 6.10 KM				ERZ = 1.8	NM =				QD = B						
02	CPX	IPU	21 14 55.90				47	2.5	10.3	311	116	2.14	2.20	-0.06	
02	LCP	IPU	21 14 57.05				42	2.4	17.6	265	105	3.29	3.31	-0.02	
02	MCY	IPU0	21 14 57.30				44	2.5	22.9	178	102	3.54	4.15	-0.61	
02	SPRG	IPU0	21 14 56.47				44	2.5	24.1	143	101	2.71	4.34	-1.63	
02	BGB	IPU	21 14 58.95				31	2.2	29.6	309	99	5.19	5.23	-0.04	
02	LSM	IPD	21 14 59.29				29	2.2	30.5	242	99	5.53	5.36	0.17	
02	CDM5	IPU0	21 14 58.96				52	2.7	30.9	268	98	5.20	5.44	-0.24	
02	GLR	FPU	21 15 0.10				16	1.7	37.0	353	97	6.34	6.41	-0.07	
02	JCN	IPU0	21 15 1.40				21	1.9	49.8	194	95	8.14	8.35	-0.21	
02	EPN	IPU0	21 15 2.59						49.6	321	95	8.83	8.46	0.38	
02	GWR	IPD	21 15 3.20				22	2.0	54.6	19	95	9.44	9.27	0.17	
02	BRO	EPD0	21 15 4.40				18	1.8	59.6	259	94	10.64	10.07	0.57	

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	RMAG	QUA	PMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
03	CPX	IPU	17 15 15.60				25	2.8	11.5	316	110	2.18	2.31	-0.13	
03	LOP	IPU0	17 15 16.70				22	1.9	17.6	270	103	3.28	3.28	-0.01	
03	MCY	IPD	17 15 17.20				25	2.0	21.5	178	101	3.78	3.91	-0.13	
03	SPMG	IPU	17 15 17.26				20	1.8	22.9	141	100	3.84	4.14	-0.30	
03	SSP	EPU	17 15 17.79						23.5	284	100	4.37	4.22	0.15	
03	BGB	IPD	17 15 18.79				11	1.3	30.6	311	97	5.37	5.37	-0.00	
03	CDMS	IPD	17 15 18.80				34	2.3	31.0	271	97	5.38	5.43	-0.05	
03	CDMI	IPU	17 15 18.79				38	2.8	31.0	271	97	5.37	5.43	-0.06	
03	GLR	EP 0	17 15 20.80						38.4	354	96	6.58	6.63	-0.05	
03	SDM	EP	17 15 20.50						40.3	235	96	7.08	6.93	0.15	
03	JCN	IPU0	17 15 21.71				12	1.5	47.6	194	95	8.29	8.12	0.17	
03	GMR	IPU	17 15 25.00				7	1.0	56.0	18	94	9.58	9.47	0.10	
03	EPM	EP 2	17 15 27.55						77.9	64	93	14.13	13.04	1.09	
03	SMRG	EP	17 15 27.70						82.6	116	93	14.28	13.80	0.48	

APR M = 23 47 9.66 UTC RMS = 0.02 NO = 6 — FREE DEPTH SOLUTION
03 LAT = 37.040 N ERX = 0.3 ERM = 0.3 AVFM = 2.3 Q = B
LONG = 116.187 W ERY = 0.1 GAP = 169 AVXM = QS = A — SILENT CANYON - YUCCA FLAT
DEPTH = 6.04 KM ERZ = 0.8 NM = QD = C

03	BGB	IPD	23 47 10.99				31	2.1	3.6	267	146	1.33	1.33	0.00	
03	SSP	IPU	23 47 12.30				37	2.3	13.0	192	110	2.64	2.60	0.04	
03	LOP	EPU	23 47 13.43				33	2.2	20.7	175	103	3.77	3.79	-0.02	
03	EPM	EPD	23 47 13.79						22.8	328	101	4.13	4.14	-0.00	
03	CDMS	IPD	23 47 13.84				42	2.5	23.0	210	101	4.18	4.17	0.01	
03	BLT	EP	23 47 17.69				29	2.2	47.0	6	95	8.03	8.03	0.00	

APR M = 18 0 48.84 UTC RMS = 0.29 NO = 8 — FREE DEPTH SOLUTION
04 LAT = 36.939 N ERX = 2.2 ERM = 3.5 AVFM = 1.6 Q = C
LONG = 115.599 W ERY = 2.8 GAP = 159 AVXM = QS = C — MERCURY
DEPTH = 18.99 KM ERZ = 3.5 NM = QD = C

04	SPMG	IPU2	18 0 55.50						33.0	215	110	6.66	6.43	0.22	
04	MCY	IPU2	18 0 56.63				15	1.6	44.7	226	112	7.79	8.15	-0.37	
04	EPM	IPU0	18 0 57.02						44.7	55	112	8.18	8.16	0.02	
04	LOP	EPU0	18 0 57.60				11	1.4	51.5	259	109	8.76	9.20	-0.44	
04	BGB	EPU	18 0 59.95						57.0	281	107	11.11	10.05	1.06	
04	CDMS	IPU0	18 0 59.56				17	1.8	64.6	262	105	10.72	11.24	-0.52	
04	JCN	EP	18 1 1.32						71.4	219	104	12.48	12.30	0.18	VERY E
04	SDM	EP 0	18 1 1.30						73.5	244	53	12.46	12.61	-0.16	VERY E

APR M = 2 27 44.95 UTC RMS = 0.05 NO = 7 — FREE DEPTH SOLUTION
05 LAT = 36.846 N ERX = 0.3 ERM = 0.7 AVFM = 2.1 Q = C
LONG = 115.944 W ERY = 0.6 GAP = 112 AVXM = QS = B — MERCURY
DEPTH = 8.60 KM ERZ = 0.8 NM = QD = C

05	CPX	IPU4	2 27 47.30				38	2.3	13.7	312	119	2.35	2.87	-0.52	
05	LCP	IPU4	2 27 48.40				40	2.4	20.0	273	110	3.45	3.80	-0.35	
05	MCY	IPU4	2 27 48.60				38	2.4	20.6	185	110	3.65	3.89	-0.24	
05	SPMG	IPU	2 27 48.85				33	2.2	20.7	145	109	3.90	3.91	-0.01	
05	LSM	IPD	2 27 50.60						31.6	248	103	5.65	5.62	0.03	
05	BGB	IPU4	2 27 50.30				31	2.2	33.1	310	102	5.35	5.85	-0.49	
05	CDMS	IPU4	2 27 50.31						33.4	273	102	5.36	5.90	-0.53	
05	CDMI	IPD4	2 27 50.39						33.4	273	102	5.44	5.90	-0.45	
05	GLR	EP 4	2 27 51.45				16	1.7	39.7	350	100	6.50	6.91	-0.41	
05	SDM	EPD0	2 27 52.18				38	2.4	41.7	238	100	7.23	7.23	0.00	
05	JCN	IPD4	2 27 52.25				23	2.0	47.3	148	99	7.30	8.13	-0.82	
05	EPM	EPU0	2 27 53.90						53.0	320	98	8.95	9.05	-0.09	
05	GMR	IPD	2 27 54.60				22	2.0	56.2	16	97	9.65	9.57	0.09	
05	BRD	EPU4	2 27 55.60				17	1.8	61.6	261	97	10.65	10.43	0.23	
05	APM	EP 4	2 27 57.40				16	1.8	68.8	224	96	12.45	11.60	0.86	
05	BLT	EPU4	2 27 56.26				22	2.1	70.3	346	96	11.31	11.83	-0.53	
05	BMT	EP 4	2 27 58.10				35	2.5	71.5	313	96	13.15	12.03	1.13	
05	EPR	EPU4	2 27 58.30						76.3	62	95	13.35	12.81	0.54	
05	FMT	EPD4	2 27 59.10				10	1.4	78.1	253	95	14.15	13.10	1.05	
05	SPMG	EP 4	2 27 59.30				15	1.8	80.0	118	95	14.05	13.41	0.64	
05	NCP	EPU4	2 27 59.00						81.9	193	95	14.05	13.71	0.34	
05	NPN	EPU	2 27 56.70				30	2.4	82.1	268	95	13.75	13.75	0.01	
05	PPN	EPU4	2 28 2.20				21	2.1	100.9	52	94	17.25	16.80	0.45	
05	MTI	EPU	2 28 3.15				23	2.2	109.7	33	94	18.20	18.22	-0.02	
05	PGE	EP 4	2 28 4.76				16	1.9	114.6	241	53	19.81	18.96	0.85	VERY E
05	MCA	EP 4	2 28 5.72				23	2.3	121.5	260	53	20.77	19.86	0.92	VERY E
05	GVM	EPD4	2 28 6.20				30	2.5	125.9	278	53	21.25	20.43	0.81	
05	GMH	EPU4	2 28 6.48						127.4	293	53	21.53	20.62	0.91	
05	WSM	EPD4	2 28 6.90						128.2	220	53	21.95	20.73	1.23	
05	TMO	EPD4	2 28 7.10				20	2.2	130.8	269	53	22.15	21.06	1.09	
05	LCM	EPD4	2 28 11.10						157.7	266	53	26.15	28.55	1.60	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	WMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 16	FPT	IPU4	11 25 58.07						132.7	282	30	22.19	21.93	0.26	
. 16	NCP	IPU	11 25 58.10				46	2.9	134.5	207	30	22.22	22.22	-0.01	

. APR M = 21 41 27.76 UTC RMS = 0.30 NO = 28 — FREE DEPTH SOLUTION
. 16 LAT = 37.208 N ERH = 0.5 ERM = 0.7 AVFM = 2.3 Q = C
. LONG = 115.476 W ERT = 0.5 GAP = 63 AVXM = QS = C — ALAMO
. DEPTH = 8.06 KM ERZ = 5.2 NM = QD = C

. 16	EPR	IPU	21 41 32.38						26.1	100	30	4.62	4.93	-0.31	
. 16	GPR	IPU4	21 41 32.65				41	2.5	29.7	290	30	4.89	5.51	-0.62	
. 16	PRN	IPD	21 41 35.07						43.8	60	30	8.11	7.81	0.29	
. 16	TPU	EPU	21 41 35.57						46.7	301	30	7.81	8.28	-0.47	
. 16	GLR	IPD	21 41 36.46						48.1	269	30	8.70	8.51	0.19	
. 16	CPI	IPD	21 41 38.08				32	2.4	60.3	239	30	10.32	10.49	-0.17	
. 16	SPRG	IPD4	21 41 38.20				29	2.3	64.2	207	30	10.52	11.14	-0.62	
. 16	WLT	EPU	21 41 38.70				25	2.2	66.8	296	30	10.94	11.23	-0.29	
. 16	MPN	IPU	21 41 39.93						68.7	44	30	12.17	11.86	0.31	
. 16	BGB	EPD4	21 41 40.56				31	2.4	69.4	254	30	12.80	11.98	0.82	
. 16	LCP	EPU	21 41 40.10				35	2.5	73.0	237	30	12.34	12.56	-0.22	
. 16	SSP	IPD	21 41 40.26				35	2.5	73.1	245	30	12.50	12.57	-0.07	
. 16	OCS	EPD	21 41 40.55				19	1.9	73.3	328	30	12.79	12.62	0.17	
. 16	MCT	IPU4	21 41 40.15				43	2.7	74.5	216	30	12.39	12.80	-0.41	
. 16	EPN	EPU	21 41 40.35						75.2	271	30	12.59	12.92	-0.33	
. 16	SMAG	IPD	21 41 42.00				20	2.0	83.1	160	30	14.28	14.21	0.03	
. 16	CDH1	IPD	21 41 42.03						84.2	243	30	14.27	14.38	-0.12	
. 16	CDH5	IPD	21 41 42.15				45	2.7	84.2	243	30	14.39	14.38	0.00	
. 16	LSM	EPD2	21 41 43.10				17	1.9	87.9	234	30	15.34	14.98	0.36	
. 16	BRT	IPU	21 41 44.68						94.3	275	30	16.84	16.82	0.02	
. 16	APK	EP	21 41 44.50						94.9	185	30	16.70	16.78	-0.04	
. 16	SDM	EPU	21 41 44.36				24	2.2	99.0	231	30	16.60	16.78	-0.18	
. 16	JON	IPU	21 41 44.81				23	2.2	101.9	213	30	17.05	17.26	-0.21	
. 16	BRD	EPD	21 41 47.46						113.6	244	30	19.70	19.16	0.54	
. 16	MPN	EP	21 41 48.68						120.1	263	30	20.84	20.22	0.62	
. 16	APR	IPU	21 41 49.39						126.5	225	30	21.63	21.27	0.36	
. 16	FPT	IPD	21 41 50.19				23	2.3	132.1	242	30	22.43	22.17	0.26	
. 16	SGV	IPU	21 41 52.06				41	2.8	140.6	260	30	24.30	23.39	0.91	
. 16	GNV	IPU	21 41 54.00						155.7	223	30	26.24	25.34	0.90	
. 16	GPN	EP	21 41 54.15						158.5	274	39	26.39	25.71	0.68	
. 16	GVN	EP 4	21 41 55.50						167.5	262	30	27.74	26.88	0.86	
.		ES	21 42 15.70									47.94	47.04	0.90	
. 16	PGE	EPD4	21 41 56.58						170.9	236	30	28.82	27.32	1.50	
. 16	MGM	EP	21 41 57.25						181.0	278	30	29.49	28.63	0.86	

. APR M = 2 27 39.35 UTC RMS = 0.15 NO = 23 — FREE DEPTH SOLUTION
. 21 LAT = 37.295 N ERX = 0.3 ERM = 0.4 AVFM = 2.4 Q = C
. LONG = 116.346 W ERY = 0.3 GAP = 77 AVXM = QS = C — SILENT CANYON - NORTH
. DEPTH = 2.86 KM ERZ = 7.5 NM = QD = B

. 21	LPN	IPD	2 27 41.38						9.2	167	98	2.03	1.86	0.17	
. 21	BRT	IPU3	2 27 43.38				50	2.7	16.7	266	94	3.95	3.07	0.88	
. 21	BLT	IPD3	2 27 43.50				40	2.4	26.3	45	93	4.15	4.63	-0.48	
. 21	BGB	IPU	2 27 44.48				36	2.3	30.4	160	92	5.13	5.30	-0.17	
. 21	GLR	EP 4	2 27 44.40						31.0	110	92	5.05	5.40	-0.36	
. 21	SSP	IPU	2 27 46.56						42.6	165	92	7.21	7.20	-0.00	
. 21	CPI	EPU4	2 27 47.05				32	2.3	48.0	148	91	7.70	8.17	-0.47	
. 21	MPN	IPD	2 27 47.69				38	2.5	48.2	240	91	8.34	8.19	0.15	
. 21	CDH1	IPD	2 27 47.26				68	3.0	48.3	177	91	7.91	8.21	-0.30	
. 21	CDH5	IPD	2 27 47.42				55	2.6	48.3	177	91	8.07	8.21	-0.14	
. 21	CTS	IPU	2 27 47.99				23	2.1	50.4	319	91	8.64	8.64	-0.00	
. 21	GPN	EP	2 27 48.16				29	2.2	51.2	85	91	8.81	8.68	0.13	
. 21	LCP	EPU	2 27 47.80				40	2.5	51.4	162	91	8.45	8.72	-0.28	
. 21	LSM	EP 4	2 27 50.15						62.0	174	90	10.80	10.46	0.34	
. 21	BRD	IPD	2 27 50.10						64.1	203	90	10.75	10.77	-0.02	
. 21	OCS	IPU	2 27 50.20				20	2.0	64.8	36	90	10.85	10.89	-0.04	
. 21	SGV	IPD	2 27 51.21				36	2.5	70.2	240	90	11.86	11.77	0.09	
. 21	MCT	EPD	2 27 52.65				39	2.6	78.1	154	90	13.30	13.06	0.24	
. 21	GPN	IPU	2 27 52.75				19	2.0	81.0	270	90	13.40	13.52	-0.12	
. 21	SPRG	EPD	2 27 53.20				32	2.4	82.0	144	90	13.85	13.69	0.16	
. 21	FNT	IPD	2 27 53.05						82.3	206	90	13.70	13.73	-0.03	
. 21	GVN	IPU	2 27 55.20				36	2.6	94.4	250	90	15.85	15.70	0.15	
. 21	JON	EPU	2 27 55.44				23	2.2	97.3	167	90	16.29	16.18	0.11	
. 21	MGM	IPU	2 27 56.44						103.1	279	90	17.09	17.12	-0.03	
. 21	MTI	EP	2 27 56.48						104.0	66	90	17.13	17.25	-0.13	
. 21	LCM	EPD	2 27 58.06				23	2.3	115.6	267	90	19.51	19.14	0.37	
. 21	SRG	EPU	2 28 1.04				43	2.9	130.4	60	90	21.69	21.55	0.14	
. 21	MPN	EPD4	2 28 1.44						130.8	72	90	22.09	21.62	0.47	

LOCAL-LOCAL DATA BRIEF

	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
1980															
	LONG = 116.274 W		ERY = 0.2	GAP = 124				AVXM =		GS = B		LATHROP WELLS			
	DEPTH = 2.83 KM		ERZ = 3.1	NM =						GD = B					
24	CDH1	IPD	6 2 29.04					20	1.8	6.1	321	103	1.38	1.37	0.01
24	CDH5	IPD	6 2 29.05					15	1.5	6.1	321	103	1.39	1.37	0.02
24	LSM	EPD	6 2 29.04					20	1.8	8.7	179	99	1.78	1.78	-0.00
24	LCP	IPU	6 2 29.63					11	1.2	10.3	67	97	1.97	2.05	-0.07
24	SDM	EPD	6 2 31.19							19.9	197	93	3.53	3.60	-0.07
24	BGB	EP	6 2 32.06							24.8	10	93	4.40	4.39	0.01
24	MCT	EPU	6 2 33.40							32.8	122	92	5.74	5.69	0.05

APR H = 6 2 59.68 UTC			RMS = 0.05	NO = 7								FREE DEPTH SOLUTION			
24 LAT = 36.017 N			ERX = 0.4	ERM = 0.5				AVFM =	1.5	Q = B					
LONG = 116.274 W			ERY = 0.3	GAP = 124				AVXM =		GS = B		LATHROP WELLS			
DEPTH = 2.91 KM			ERZ = 3.3	NM =						GD = B					
24	CDH5	IPU	6 3 1.04					17	1.6	6.2	321	104	1.36	1.38	-0.02
24	CDH1	EP	6 3 1.12					25	1.9	6.2	321	104	1.44	1.38	0.06
24	LSM	EPD	6 3 1.64					25	2.0	8.7	179	99	1.76	1.78	-0.02
24	LCP	IPD	6 3 1.65					12	1.3	10.4	67	98	1.97	2.05	-0.08
24	SDM	IPD	6 3 3.21							19.9	197	94	3.53	3.59	-0.06
24	BGB	IPD	6 3 4.08					8	1.0	24.9	10	93	4.40	4.40	0.00
24	MCT	IPD	6 3 5.42					8	1.1	32.8	122	92	5.78	5.69	0.06

APR H = 7 20 49.72 UTC			RMS = 0.07	NO = 8								FREE DEPTH SOLUTION			
24 LAT = 36.017 N			ERX = 0.5	ERM = 0.6				AVFM =	1.5	Q = B					
LONG = 116.271 W			ERY = 0.3	GAP = 122				AVXM =		GS = B		LATHROP WELLS			
DEPTH = 3.45 KM			ERZ = 3.1	NM =						GD = B					
24	CDH5	IPU	7 20 51.10					17	1.6	6.4	320	109	1.38	1.43	-0.05
24	CDH1	IPD	7 20 51.10					25	1.9	6.4	320	109	1.46	1.43	0.03
24	LSM	EPU	7 20 51.60					34	2.2	8.6	180	103	1.88	1.79	0.09
24	LCP	IPD	7 20 51.64					11	1.2	10.2	66	101	1.92	2.04	-0.11
24	SSP	IPU	7 20 52.19					10	1.2	12.9	21	99	2.47	2.48	-0.00
24	SDM	IPU	7 20 53.23							19.9	197	95	3.51	3.60	-0.09
24	BGB	EP	7 20 54.22					8	1.0	24.9	9	94	4.50	4.41	0.10
24	MCT	IPU	7 20 55.39							32.6	122	93	5.67	5.65	0.02

APR H = 3 48 37.94 UTC			RMS = 0.44	NO = 22								FREE DEPTH SOLUTION			
25 LAT = 36.018 N			ERX = 1.1	ERM = 2.8				AVFM =	2.5	Q = D					
LONG = 116.091 W			ERY = 2.5	GAP = 234				AVXM =		GS = C		ASH MEADOWS			
DEPTH = 3.30 KM			ERZ = 8.1	NM =						GD = D					
25	JCN	IPD	3 48 45.85					36	2.4	47.7	359	38	7.91	8.48	-0.49
25	APR	EPU	3 48 47.00					37	2.5	55.1	321	38	9.06	9.60	-0.54
25	GNV	IPU	3 48 47.35					49	2.6	55.7	291	38	9.41	9.71	-0.29
25	MCT	IPU	3 48 50.00							73.2	9	38	12.06	12.55	-0.49
25	SDM	EPU	3 48 50.65					26	2.2	73.9	343	38	12.71	12.66	0.05
25	SPRG	IPU	3 48 51.35					63	3.8	80.8	18	38	13.41	13.65	-0.24
25	LSM	EP	3 48 52.20					18	1.9	82.5	349	38	14.26	14.05	0.21
25	FMT	IPD	3 48 53.36					20	2.1	93.3	319	38	15.42	15.80	-0.38
25	LOP	EPU	3 48 53.92					36	2.6	93.9	356	38	15.99	15.91	0.07
25	CDH1	EPD	3 48 53.96					68	3.1	96.5	348	38	16.02	16.33	-0.31
25	CDH5	EPD	3 48 54.33					46	2.8	96.5	348	38	16.39	16.33	0.06
25	SHAG	EPU	3 48 54.53					24	2.2	100.4	57	38	16.59	16.96	-0.37
25	CPX	IPD	3 48 55.24					32	2.5	102.0	2	38	17.30	17.22	0.08
25	BGB	IPU	3 48 57.46					27	2.4	114.7	354	38	19.52	19.29	0.23
25	NMN	EPU	3 49 0.81					28	2.5	135.5	331	30	22.87	22.67	0.20
25	SGV	EPD	3 49 [illegible].93					33	2.6	136.8	322	30	22.96	22.84	0.12
25	BMT	EPU	3 49 3.20					37	2.8	146.8	344	30	25.26	24.13	1.13
25	TPO	IPD	3 49 2.25							147.5	307	30	24.31	24.22	0.09
25	GPR	EP	3 49 2.83					21	2.3	149.7	11	30	24.89	24.51	0.38
25	EPR	EPU	3 49 3.59					35	2.7	151.9	32	30	25.65	24.81	0.85
25	GVN	IPD	3 49 4.49					30	2.6	157.1	314	30	26.55	25.47	1.08
25	BLT	IPU	3 49 5.05					32	2.7	161.1	359	30	27.11	26.00	1.12

APR H = 10 40 30.33 UTC			RMS = 0.11	NO = 23								FREE DEPTH SOLUTION			
25 LAT = 37.319 N			ERX = 0.3	ERM = 0.4				AVFM =	3.1	Q = C					
LONG = 116.304 W			ERY = 0.2	GAP = 74				AVXM =		GS = B		SILENT CANYON - NORTH			
DEPTH = 3.78 KM			ERZ = 4.9	NM =						GD = C					
25	EPN	IPU	10 40 32.70					133	3.4	11.4	184	101	2.37	2.30	0.06
25	BMT	IPU*	10 40 35.46					97	3.2	20.8	259	96	5.13	3.75	1.38
25	BLT	IPD	10 40 34.25					89	3.1	21.7	43	96	3.92	3.90	0.01
25	GLR	IPU	10 40 35.32							28.6	118	94	4.49	5.02	-0.03

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
29	CDMS	IPU4	17 53 33.12				19	1.7	6.2	321	108	1.33	1.41	-0.08	
29	CDMI	IPD	17 53 33.22				25	1.9	6.2	321	108	1.43	1.41	0.02	
29	LSM	IPD	17 53 33.68						8.7	179	103	1.81	1.79	0.02	
29	LCP	IPD	17 53 33.88				15	1.5	10.3	96	101	2.01	2.05	-0.04	
29	SSP	IPU	17 53 34.28				13	1.4	12.9	22	98	2.41	2.48	-0.06	
29	SDM	EPU	17 53 35.34				6	0.8	19.9	197	95	3.55	3.60	-0.05	
29	BGB	EP	17 53 36.38				6	0.8	26.8	9	94	4.51	4.40	0.11	
29	MCT	IPU	17 53 37.58				19	1.8	32.7	122	93	5.71	5.68	0.04	
29	JON	EPD3	17 53 39.68				6	0.8	44.5	166	92	7.81	7.60	0.21	

APR H = 9 33 59.44 UTC RMS = 0.07 NO = 11 — FREE DEPTH SOLUTION
30 LAT = 36.639 N ERX = 0.4 ERH = 0.5 AVFM = 1.7 Q = B
LONG = 115.999 W ERY = 0.3 GAP = 133 AVXM = QS = A — MERCURY
DEPTH = 12.44 KM ERZ = 1.8 NM = QD = B

30	MCT	IPU	9 34 1.79				24	1.9	4.2	53	160	2.35	2.31	0.03	
30	SPRG	IPU	9 34 3.20				12	1.4	10.0	70	122	3.76	3.79	-0.04	
30	JON	IPD	9 34 4.08				17	1.7	24.0	203	115	4.63	4.66	-0.03	
30	LSM	IPU	9 34 4.51				42	2.5	26.8	295	113	5.07	5.06	0.01	
30	LCP	EP	9 34 4.68				15	1.6	28.2	328	112	5.24	5.28	-0.04	
30	SDM	IPU	9 34 4.96				15	1.6	30.3	271	110	5.51	5.60	-0.08	
30	CPX	EPU	9 34 5.49						32.6	351	109	6.04	5.94	0.10	
30	SSP	EP	9 34 6.06				12	1.4	37.3	328	107	6.62	6.67	-0.06	
30	CDMS	IPU	9 34 6.06				12	1.4	37.6	311	106	6.62	6.72	-0.10	
30	CDMI	IPD	9 34 6.17				20	1.9	37.6	311	106	6.73	6.72	0.01	
30	BMT	EPD4	9 34 15.36						85.9	326	97	15.91	14.43	1.48	
30	NPN	EPU	9 34 16.45						87.9	304	97	15.88	14.76	0.29	

MAY H = 7 38 28.36 UTC RMS = 0.10 NO = 9 — FREE DEPTH SOLUTION
02 LAT = 36.817 N ERX = 0.7 ERH = 0.8 AVFM = 1.4 Q = B
LONG = 116.268 W ERY = 0.4 GAP = 128 AVXM = QS = B — LATHROP WELLS
DEPTH = 3.56 KM ERZ = 3.8 NM = QD = B

02	CDMI	IPD	7 38 29.78				27	2.0	6.5	318	109	1.48	1.47	0.01	
02	LSM	IPD	7 38 30.08				31	2.1	8.6	182	104	1.78	1.79	-0.09	
02	LCP	IPD	7 38 30.29				15	1.5	9.9	65	102	1.99	2.00	-0.01	
02	SSP	IPU	7 38 30.76				15	1.5	12.8	20	99	2.46	2.46	0.00	
02	SDM	IPD	7 38 31.88				5	0.6	20.0	198	96	3.58	3.62	-0.12	
02	CPX	EP	7 38 32.16				7	0.9	22.5	56	95	3.86	4.02	-0.16	
02	BGB	IPD	7 38 32.75				7	0.9	28.8	8	95	4.45	4.40	0.05	
02	MCT	IPD	7 38 33.99				19	1.8	32.3	122	93	5.69	5.61	0.08	
02	JON	EPD	7 38 36.10				7	1.0	44.3	161	92	7.80	7.57	0.23	

MAY H = 10 31 18.71 UTC RMS = 0.13 NO = 12 — FREE DEPTH SOLUTION
03 LAT = 36.456 N ERX = 0.7 ERH = 1.2 AVFM = 1.7 Q = C
LONG = 117.056 W ERY = 1.0 GAP = 136 AVXM = QS = B — PANAMINT BUTTE
DEPTH = 14.61 KM ERZ = 2.2 NM = QD = C

03	PGE	IPD	10 31 22.04				8	1.0	12.2	194	138	3.33	3.30	0.03	
03	CMV	EP 4	10 31 36.55				12	1.4	45.9	131	106	17.84	8.11	9.73	
03	TPO	EPD	10 31 27.41						49.7	321	105	8.70	8.72	-0.02	
03	BRO	EP 2	10 31 27.46						51.2	49	104	8.75	8.95	-0.20	
03	APR	EPU3	10 31 27.54						53.6	97	104	8.83	9.17	-0.34	
03	SGV	EPU3	10 31 29.09				14	1.6	58.[illegible]	2	103	10.38	10.03	0.35	
		ISU4	10 31 36.30									17.29	17.54	-0.26	
03	NPN	EPU2	10 31 31.25				9	1.3	72.2	17	100	12.54	12.29	0.25	
03	LSM	EPD3	10 31 32.35				29	2.3	76.7	66	100	13.64	13.01	0.63	
03	CDMI	IPD	10 31 32.13				22	2.1	79.6	56	99	13.42	13.47	-0.05	
03	CDMS	EPU	10 31 32.12				17	1.9	79.6	56	99	13.41	13.47	-0.06	
03	LCP	EPU	10 31 34.06				16	1.7	90.7	41	98	15.35	15.25	0.09	
03	SSP	EPU8	10 31 34.34				17	1.9	91.0	55	98	15.63	15.30	0.33	
03	BMT	EPU	10 31 35.79						102.7	27	53	17.08	16.83	0.25	
03	EPN	EPU3	10 31 37.20				13	1.7	106.3	38	53	18.49	17.30	1.19	

MAY H = 11 36 39.05 UTC RMS = 0.05 NO = 10 — FREE DEPTH SOLUTION
08 LAT = 37.165 N ERX = 0.2 ERH = 0.3 AVFM = 1.4 Q = B
LONG = 117.413 W ERY = 0.2 GAP = 129 AVXM = QS = A — MT. JACKSON
DEPTH = 7.17 KM ERZ = 1.8 NM = QD = C

08	GVN	IPU	11 36 42.68				20	1.8	19.2	161	107	3.63	3.61	0.03	
08	GRN	IPU	11 36 42.79				10	1.2	20.2	82	106	3.74	3.77	-0.02	
08	LCM	IPU	11 36 43.10				14	1.5	22.2	290	105	4.05	4.08	-0.03	
08	MRN	IPU2	11 36 44.75				10	1.2	31.5	346	100	5.70	5.56	0.14	
08	SGV	IPU	11 36 45.81				22	2.0	39.5	121	98	6.76	6.84	-0.07	

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNAG	UNW	PMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
14	LSM	IPD	0 33 34.71				31	2.2	12.8	299	118	2.75	2.69	0.06	
14	SDM	EPD	0 33 36.35				7	0.9	24.0	289	105	4.39	4.51	-0.12	
14	MCT	IPU	0 33 37.15				18	1.7	29.2	135	103	5.19	5.22	-0.03	
14	JOM	EPU	0 33 39.06				6	0.8	45.3	169	98	7.40	7.29	0.11	

MAY M = 1 30 38.60 UTC RMS = 0.11 NO = 8
15 LAT = 36.504 N ERX = 1.2 ERM = 1.6 AVPM = 1.4 Q = D
LONG = 115.096 W ERY = 1.1 GAP = 229 AVXM = GS = C
DEPTH = 5.00 KM ERZ = 7.8 NM = QP = D

FIXED DEPTH SOLUTION
DEPTH CONTROL INADEQUATE
MERCURY

15	MCT	IPU	1 30 41.09				26	2.0	18.5	341	101	3.49	3.40	-0.12	
15	JOM	IPD	1 30 42.21				9	1.1	19.9	269	100	3.61	3.63	-0.03	
15	SPRG	EPD	1 30 42.60				12	1.4	22.4	20	99	4.00	4.04	-0.05	
15	LSM	EP 0	1 30 45.97				9	1.2	42.6	308	95	7.37	7.29	0.07	
15	SDM	EPU	1 30 45.76						42.6	292	95	7.16	7.30	-0.14	
15	LOP	EPU0	1 30 46.51				12	1.4	45.8	326	94	7.91	7.82	0.09	
15	CDM1	IPU0	1 30 48.42						54.6	316	94	9.82	9.25	0.17	
15	CDMS	IPU3	1 30 48.05						54.6	316	94	9.45	9.25	0.20	
15	BRO	EPU3	1 30 51.55						71.3	294	93	12.95	11.96	0.99	

MAY M = 16 49 8.20 UTC RMS = 0.09 NO = 8
16 LAT = 37.078 N ERX = 0.9 ERM = 1.0 AVPM = 1.9 Q = C
LONG = 116.055 W ERY = 0.4 GAP = 162 AVXM = GS = B
DEPTH = 8.66 KM ERZ = 3.8 NM = QD = C

FREE DEPTH SOLUTION
SILENT CANYON - YUCCA FLAT

16	BGB	IPD	16 49 11.46				17	1.6	15.9	255	115	3.26	3.19	0.07	
16	CPX	IPD0	16 49 11.24						16.1	181	115	3.04	3.23	-0.18	
16	SSR	EPU0	16 49 12.24						22.1	221	108	4.04	4.12	-0.08	
16	LOP	EPU	16 49 13.19				24	2.3	26.4	202	105	4.99	4.80	0.19	
16	CDMS	IPU0	16 49 13.95				26	2.1	33.3	225	102	5.75	5.89	-0.14	
16	CDM1	IPU0	16 49 13.90				32	2.5	33.3	225	102	5.79	5.89	-0.10	
16	LSM	EP 4	16 49 16.75						41.9	207	100	8.55	7.27	1.29	
16	WLT	EPU0	16 49 15.67						43.5	351	99	7.47	7.53	-0.05	
		ISD4	16 49 21.27									13.07	13.17	-0.10	
16	SPRG	EPD	16 49 16.40				12	1.5	47.5	153	99	8.20	8.16	0.04	

MAY M = 1 43 11.44 UTC RMS = 0.38 NO = 9
18 LAT = 36.819 N ERX = 2.5 ERM = 3.1 AVPM = 1.3 Q = C
LONG = 116.273 W ERY = 1.9 GAP = 123 AVXM = GS = C
DEPTH = 9.38 KM ERZ = 5.9 NM = QD = B

FREE DEPTH SOLUTION
LATHROP WELLS

18	CDM1	IPD	1 43 13.63				23	1.9	6.0	319	145	2.19	1.99	0.20	
18	CDMS	IPU	1 43 13.60				17	1.6	6.0	319	145	2.16	1.99	0.17	
18	LSM	EP 3	1 43 13.45				9	1.1	8.9	179	133	2.01	2.30	-0.29	
18	LOP	IPD	1 43 13.63				11	1.2	10.3	68	129	2.19	2.46	-0.27	
18	SSP	IPU0	1 43 14.11				7	0.9	12.7	23	123	2.67	2.79	-0.12	
18	SDM	IPU	1 43 15.27						20.1	197	112	3.83	3.87	-0.03	
18	BGB	EPU3	1 43 16.99						24.6	18	108	5.46	4.55	0.92	
18	MCT	IPD	1 43 17.60				12	1.4	32.9	122	104	6.16	5.84	0.32	
18	EPM	EPU1	1 43 17.56						44.0	354	100	6.12	7.62	-1.50	

MAY M = 17 56 25.58 UTC RMS = 0.27 NO = 8
18 LAT = 36.930 N ERX = 2.2 ERM = 3.6 AVPM = 1.2 Q = D
LONG = 116.009 W ERY = 2.9 GAP = 204 AVXM = GS = C
DEPTH = 33.89 KM ERZ = 4.3 NM = QD = D

FREE DEPTH SOLUTION
LATHROP WELLS

18	CPX	IPU	17 56 31.01				5	0.5	4.4	268	171	5.43	5.40	0.03	
18	LOP	EPU3	17 56 33.11				11	1.3	16.5	239	149	6.53	5.94	0.59	
18	SSP	EPU0	17 56 33.19				6	0.8	18.7	268	145	7.61	6.10	1.52	
		ISD	17 56 37.17									11.59	10.67	0.92	
18	BGB	EPD	17 56 32.28						22.9	301	139	6.70	6.43	0.28	
18	CDM1	EP	17 56 32.25				19	1.8	28.6	254	131	6.67	6.96	-0.28	
18	CDMS	EP	17 56 32.40				9	1.1	28.6	254	131	6.90	6.96	-0.05	
18	MCT	EPU	17 56 32.45				13	1.5	30.1	172	130	6.87	7.11	-0.23	
18	LSM	EP 4	17 56 34.00				11	1.3	31.7	228	128	8.42	7.26	1.16	
18	SPRG	IPD	17 56 32.89				7	0.9	31.7	146	128	7.31	7.27	0.05	

MAY M = 4 16 35.37 UTC RMS = 0.43 NO = 31
19 LAT = 37.076 N ERX = 0.7 ERM = 1.0 AVPM = 2.9 Q = C
LONG = 117.078 W ERY = 0.3 GAP = 64 AVXM = GS = C
DEPTH = 1.74 KM ERZ = 3.3 NM = QD = C

FREE DEPTH SOLUTION
MT. JACKSON

90814 02230

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	AMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
03	SSP	IPU	9 4 32.16				27	2.1	19.8	283	100	3.75	3.62	0.13	
03	MCY	IPU	9 4 32.85				20	1.8	25.2	172	97	4.40	4.40	-0.00	
03	BGB	IPU	9 4 32.95				17	1.7	26.3	310	97	4.54	4.65	-0.12	
03	CPM1	EPD	9 4 33.40				17	1.7	28.3	266	97	4.99	4.99	-0.00	
03	CDMS	EP 4	9 4 34.09				5	0.6	28.3	266	97	5.68	4.99	0.69	
03	GLR	EPU4	9 4 34.18				18	1.5	30.8	350	95	5.69	6.03	-0.34	
		FS	9 4 38.95									10.54	10.56	-0.02	
03	LPM	EP 2	9 4 36.50				20	1.9	46.3	322	94	8.09	7.90	0.18	
03	GPM	IPU	9 4 37.60				8	1.1	53.7	22	93	9.19	9.10	0.08	
03	BLT	EPU	9 4 39.05				12	1.5	64.9	349	93	10.64	10.92	-0.29	

JUN M = 19 54 35.79 UTC RMS = 0.20 NO = 13
04 LAT = 37.584 N ERX = 0.7 ERM = 1.0 AVFM = 2.1 Q = C
LONG = 116.465 W ERY = 0.7 GAP = 97 AVXM = QS = B
DEPTH = 8.74 KM ERZ = 2.0 NM = QD = C

FREE DEPTH SOLUTION
QUARTZITE MOUNTAIN

04	XRNA	IPD	19 54 34.61				27	2.1	19.8	22	111	3.82	3.79	0.04
04	CTS	IPU	19 54 40.69				16	1.6	23.8	285	107	4.38	4.48	-0.09
04	BLT	IPU	19 54 41.10				25	2.0	32.3	115	103	5.31	5.73	-0.41
04	BPT	IPD4	19 54 41.91				28	2.1	33.9	190	102	6.12	5.99	0.13
04	EPM	IPU	19 54 43.18				27	2.1	43.0	163	100	7.39	7.43	-0.04
04	GLR	IPU4	19 54 46.25				18	1.6	58.5	137	97	10.46	9.90	0.56
04	NPM	IPD4	19 54 46.32				28	2.2	64.8	209	96	10.53	10.53	-0.30
04	BGB	EPD4	19 54 49.11				22	2.0	68.2	161	96	13.32	10.86	2.47
04	GPR	EPD4	19 54 45.27				18	1.9	67.4	114	96	9.48	11.37	-1.89
04	TPU	IPD3	19 54 47.87				17	1.8	72.1	86	96	11.28	12.13	-0.85
04	LPM	EPU4	19 54 48.78						77.1	246	95	12.99	12.94	0.05
04	SGV	IPD4	19 54 49.58				27	2.3	83.7	217	95	13.79	14.01	-0.22
04	GVN	EPD4	19 54 52.50				25	2.3	101.2	230	94	16.81	16.84	-0.03
04	LCN	IPU4	19 54 54.58				19	2.1	111.6	258	94	18.79	18.54	0.25
04	SPRG	EPU	19 54 54.79				25	2.3	117.7	149	53	19.80	19.97	0.04
04	SVP	IPD4	19 54 56.25				20	2..	118.8	277	53	20.46	19.50	0.97

JUN M = 19 43 17.18 UTC RMS = 0.19 NO = 12
06 LAT = 36.888 N ERX = 1.2 ERM = 1.4 AVFM = 1.8 Q = C
LONG = 115.727 W ERY = 0.6 GAP = 283 AVXM = QS = B
DEPTH = 1.12 KM ERZ = 1.9 NM = QD = D

FREE DEPTH SOLUTION
MERCURY

06	SPRG	EP	19 43 21.02				20	2.1	22.8	149	38	3.64	4.17	-0.33
06	CPX	EPD	19 43 22.41				14	1.5	29.8	279	38	5.23	5.32	-0.09
06	MCY	IPU	19 43 22.91				26	2.1	32.7	220	38	5.73	5.79	-0.06
06	LOP	EPU	19 43 24.06				13	1.5	39.8	264	38	6.88	6.88	0.00
06	GLR	EPD	19 43 24.56				19	1.3	43.1	323	38	7.38	7.48	-0.10
06	SSP	EP 3	19 43 25.25				12	1.4	44.0	275	38	8.07	7.62	0.45
06	BGB	EP 0	19 43 25.22				10	1.3	47.5	298	38	8.04	8.20	-0.16
06	GPR	EP 3	19 43 25.97				12	1.5	49.6	356	38	8.79	8.54	0.25
06	CDM1	EPU0	19 43 26.23				11	1.4	52.7	267	38	9.05	9.04	0.01
06	CDMS	EPU0	19 43 32.18				1	-0.7	52.7	367	38	15.00	9.04	5.96
06	JON	EPU	19 43 27.66				21	2.0	60.0	214	35	10.48	10.23	0.25
06	SOM	EPD2	19 43 27.95				18	1.3	60.8	244	38	10.77	10.36	0.41
		ISU0	19 43 35.50									10.32	10.12	0.19

JUN M = 2 8 55.24 UTC RMS = 0.13 NO = 4
07 LAT = 36.923 N ERX = ERM = AVFM = 2.1 Q = C
LONG = 116.966 W ERY = GAP = 162 AVXM = QS = A
DEPTH = 22.16 KM ERZ = NM = QD = D

FREE DEPTH SOLUTION
CHLORIDE CLIFF

07	FPT	EPU4	2 9 9.95						35.7	152	121	14.73	7.07	7.66
07	TPO	EPU0	2 9 3.25				23	2.0	41.3	252	117	8.03	7.87	0.16
07	MCA	IPU	2 9 2.74				21	1.9	41.3	222	117	7.72	7.87	-0.16
07	PGE	EPD4	2 9 5.70				17	1.8	44.3	108	53	10.56	11.10	-0.55
07	LSM	EPU4	2 9 17.56				29	2.3	65.4	108	53	22.34	11.25	11.09
07	EPM	IPU0	2 9 6.62				26	2.2	65.8	61	53	11.40	11.29	0.10
07	LOP	EPU4	2 9 18.25				29	2.3	71.3	96	53	15.03	12.07	2.97
07	CTS	EPU0	2 9 8.57				19	2.0	82.4	15	53	13.35	13.46	-0.11
07	MCY	IPD4	2 9 13.94				23	2.2	94.3	108	53	16.72	15.00	3.71
07	BLT	IPD4	2 9 13.05				19	2.0	95.1	51	53	17.43	15.10	2.72
07	OSM	EPD4	2 9 10.00				24	2.3	106.6	175	53	14.78	16.60	-1.82

JUN M = 12 8 32.82 UTC RMS = 0.03 NO = 7
07 LAT = 36.613 N ERX = 0.2 ERM = 0.2 AVFM = 1.7 Q = A
LONG = 116.271 W ERY = 0.2 GAP = 156 AVXM = QS = A
DEPTH = 9.51 KM ERZ = 0.5 NM = QD = C

FREE DEPTH SOLUTION
LATHROP WELLS

07	SGM	IPU	12 8 30.94				16	1.6	7.0	301	141	2.12	2.12	0.00

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PLN (SEC)	AMAG	UUM	PMAG	DIST (NM)	AZI (DEG)	AIN (DEG)	THUS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
10	BGB	EPU	15 19 21.95				23	2.4	99.8	97	92	16.64	16.59	0.05	
10	GPM	EP 3	15 19 28.88				19	7.2	100.9	84	53	23.57	22.72	0.85	VERY E

JUN M = 1 17 38.62 UTC RMS = 0.37 NO = 18 — FREE DEPTH SOLUTION
15 LAT = 36.001 N ERX = 1.4 ERM = 2.2 AVFM = 1.3 Q = C
LONG = 116.042 W ERY = 1.7 GAP = 125 AVXM = GS = C — LATHROP WELLS
DEPTH = 1.39 KM ERZ = 3.9 NM = GD = C

15	LOP	IPU	1 17 40.80	13	1.0	12.6	298	38	2.26	2.47	-0.21			
15	CPX	IPU2	1 17 40.62	11	1.3	14.3	354	38	2.90	2.74	-0.16			
15	MCY	EPD	1 17 41.26	18	1.7	17.0	155	38	2.64	3.18	-0.54			
		ISU	1 17 43.04						5.22	5.57	-0.35			
15	SSP	EPU	1 17 43.20	8	1.0	20.9	311	38	4.54	3.81	0.77	VERY E		
15	LSM	EP	1 17 42.76	8	1.0	21.6	252	38	4.14	3.93	0.22	VERY E		
15	SPRG	EP	1 17 43.12	10	1.2	24.0	126	38	4.50	4.31	0.19			
15	CDM1	EPU	1 17 42.96	12	1.4	25.4	285	38	4.34	4.55	-0.21			
15	BGB	EP	1 17 44.12	10	1.2	31.1	328	38	5.50	5.47	0.03	VERY E		
15	SDM	EP	1 17 44.66			31.6	237	38	5.98	5.55	0.44	VERY E		

JUN M = 17 57 11.63 UTC RMS = 0.10 NO = 16 — FREE DEPTH SOLUTION
18 LAT = 36.698 N ERX = 0.2 ERM = 0.4 AVFM = 2.0 Q = C
LONG = 115.613 W ERY = 0.3 GAP = 119 AVXM = GS = B — MERCURY
DEPTH = 0.84 KM ERZ = 4.0 NM = GD = C

18	SPRG	IPU	17 57 14.98	24	2.0	17.8	269	38	3.27	3.43	-0.15			
18	MCY	EPU	17 57 17.13	35	2.3	31.7	263	38	5.50	5.69	-0.18			
18	SPRG	EPU	17 57 19.63	19	1.8	46.0	118	38	8.00	8.01	-0.01			
18	CPX	IPD	17 57 19.83	16	1.7	47.5	303	38	8.20	8.25	-0.05			
18	JCN	IPD	17 57 20.79	17	1.8	52.6	237	38	9.16	9.08	0.08			
18	LCP	EPU	17 57 20.78	21	2.0	52.7	289	38	9.11	9.10	0.02			
18	LSM	EP 4	17 57 22.20	16	1.7	59.3	274	38	10.57	10.17	0.40	VERY E		
18	SSP	IPD	17 57 21.96	23	2.1	59.9	295	38	10.33	10.26	0.07			
18	EPR	EPU	17 57 22.67	24	2.1	68.4	36	38	11.04	11.01	0.04			
18	SDM	EP	17 57 22.85	15	1.7	65.3	265	38	11.22	11.15	0.07	VERY E		
18	CDM1	EPD	17 57 22.90	17	1.8	65.7	286	38	11.27	11.20	0.07			
18	GLR	IPD	17 57 22.88	16	1.8	66.4	327	38	11.25	11.33	-0.08			
18	BGB	EPD	17 57 22.91	18	1.9	66.7	304	38	11.28	11.38	-0.09			
18	GPM	EP	17 57 23.71	20	2.0	72.0	349	38	12.08	12.24	-0.15			
18	PPN	EPD2	17 57 27.62	20	2.1	93.1	32	38	15.99	15.67	0.32			
18	TPU	EPU4	17 57 29.98	19	2.0	100.7	358	38	18.35	16.90	1.45			
18	BMT	EP 4	17 57 29.50	31	2.5	104.0	306	38	17.87	17.57	0.31			
		EPU3	17 57 42.70						31.07	30.74	0.33			
18	HTI	EPD4	17 57 30.06	23	2.2	112.6	15	38	19.03	18.85	0.39			
18	NPN	IPD4	17 57 32.80	21	2.2	121.6	29	38	21.17	20.31	0.87			
18	SGV	EP	17 57 33.65	29	2.5	130.8	284	38	22.02	21.79	0.23			

JUN M = 2 33 21.71 UTC RMS = 0.13 NO = 12 — FREE DEPTH SOLUTION
19 LAT = 36.712 N ERX = 0.4 ERM = 0.6 AVFM = 1.6 Q = B
LONG = 116.254 W ERY = 0.5 GAP = 104 AVXM = C GS = A — LATHROP WELLS
DEPTH = 1.02 KM ERZ = 0.8 NM = GD = B

19	LSM	IPU	2 33 22.64	17	1.6	3.3	332	107	0.93	0.92	0.01			
19	SDM	IPD4	2 33 22.80	16	1.6	10.5	225	38	1.09	2.21	-1.11			
19	CDM1	IPU	2 33 24.96	16	1.6	17.[illegible]	341	38	3.25	3.32	-0.06			
19	CDM5	EP 4	2 33 26.05	7	0.9	17.4	341	38	4.34	3.32	1.03	VERY E		
19	LCP	IPD	2 33 24.98	21	1.8	17.5	26	38	3.23	3.35	-0.11			
19	SSP	EP 3	2 33 26.42	27	2.1	23.8	8	38	4.71	4.37	0.35	VERY E		
19	MCY	IPU	2 33 26.47	26	2.1	26.7	102	38	4.76	4.83	-0.07			
19	CPX	EPD	2 33 27.03	16	1.6	29.7	36	38	5.32	5.33	-0.00			
19	JCN	IPU	2 33 27.75	12	1.4	33.1	156	38	5.64	5.88	-0.24			
19	BPD	EP	2 33 27.64	9	1.2	33.6	290	38	5.93	5.96	-0.03	VERY E		
19	BGB	EP	2 33 28.14	16	1.7	36.2	4	38	6.43	6.38	0.05	VERY E		
19	SPRG	EPD	2 33 28.76	20	1.9	39.8	93	38	7.05	6.97	0.08			
19	BMT	EP	2 33 30.03	11	1.8	47.6	260	38	8.32	8.22	0.10	VERY E		
19	NPN	EP 4	2 33 34.50	19	1.9	68.8	309	38	12.79	11.03	1.76	VERY E		
19	APK	EP	2 33 34.63	14	1.7	70.9	126	38	12.92	12.67	0.25	VERY E		

JUN M = 4 4 0.48 UTC RMS = 0.09 NO = 6 — FREE DEPTH SOLUTION
19 LAT = 36.526 N ERX = 0.2 ERM = 0.4 AVFM = 1.4 Q = C
LONG = 116.372 W ERY = 0.3 GAP = 107 AVXM = GS = B — LATHROP WELLS
DEPTH = 6.27 KM ERZ = 3.7 NM = GD = C

19	SDM	IPU3	4 4 10.70	11	1.3	13.6	13	110	2.26	2.69	-0.44			
19	APK	EP 6	4 4 11.64	14	1.6	14.9	213	106	3.16	3.21	-0.04	VERY E		
19	JCN	IPU	4 4 13.18	11	1.3	24.0	112	100	4.70	4.64	0.06			

1990	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIM (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
04	NPN	IPU	8 21 44.91				17	1.7	32.5	339	91	5.34	5.64	-0.30	
04	CDM1	IPD	8 21 45.17						33.6	80	91	5.60	5.81	-0.21	
04	CDM5	EPD3	8 21 45.17						33.6	80	91	5.60	5.81	-0.21	
04	SCM	IPU	8 21 45.76				10	1.3	34.1	120	91	6.19	6.22	-0.03	
04	SGV	IPU	8 21 45.85				16	1.7	36.2	302	91	6.28	6.25	0.03	
04	LSM	IPD	8 21 46.27				13	1.5	37.9	102	90	6.70	6.51	0.19	
04	SSP	EP	8 21 46.97				20	1.9	43.8	73	90	7.40	7.47	-0.07	VERY E
04	LCP	EP	8 21 47.79				18	1.8	46.7	84	90	8.22	7.95	0.27	VERY E
04	BGB	IPD	8 21 47.62						48.3	58	90	8.05	8.21	-0.11	
04	BMT	EP	8 21 49.55				16	1.7	50.5	15	90	9.98	9.22	0.36	
04	EPN	IPU	8 21 49.23				19	1.9	55.5	36	90	9.66	9.38	0.28	
04	MCY	IPU	8 21 50.70				19	1.9	66.8	104	90	11.23	11.22	-0.01	

JUL M = 13 26 8.26 UTC RMS = 0.23 NO = 6 — FREE DEPTH SOLUTION
05 LAT = 36.766 N ERZ = 1.5 ERM = 2.8 AVFM = 1.6 Q = C
LONG = 116.027 W ERY = 2.4 GAP = 106 AVXM = QS = C — CHLORIDE CLIFF
DEPTH = 7.77 KM ERZ = 3.0 NM = QD = 9

05	BRU	IPU	13 26 9.78				13	1.4	8.2	141	178	1.44	1.43	0.01	
05	FMT	IPD	13 26 11.68				18	1.2	19.4	224	188	3.42	3.66	-0.14	
05	SCM	EPD4	13 26 23.06						29.8	117	102	14.80	5.17	9.63	
05	CDM1	IPD	13 26 13.75				16	1.6	29.6	69	102	5.49	5.27	0.22	
05	LSM	EP 4	13 26 17.05				17	1.7	31.8	95	101	8.79	5.62	3.17	VERY
05	NPN	IPU4	13 26 19.26				22	2.0	39.8	334	99	11.00	6.78	4.22	
05	LCP	IPU2	13 26 14.03				16	1.7	42.2	76	98	5.77	7.29	-1.52	
05	SGV	EP	13 26 15.69				18	1.8	43.4	304	98	7.63	7.48	0.15	
05	BGB	IPD	13 26 16.12				14	1.6	46.8	58	98	7.86	8.02	-0.11	
05	CPX	IPU4	13 26 14.22				11	1.4	53.9	78	97	5.96	9.18	-3.22	
05	BMT	IPD4	13 26 14.74				12	1.5	58.2	8	96	6.48	9.87	-3.39	
05	MCY	IPU4	13 26 13.41				18	1.9	60.5	101	96	5.15	10.24	-5.09	
05	GVN	IPD4	13 26 17.66				17	1.8	69.8	292	95	9.40	11.61	-2.21	
05	HCP	EPU4	13 26 26.81						92.4	149	94	18.55	13.79	4.76	

JUL M = 15 13 14.81 UTC RMS = 0.16 NO = 6 — FREE DEPTH SOLUTION
07 LAT = 36.741 N ERZ = 4.7 ERM = 5.0 AVFM = 1.6 Q = D
LONG = 115.821 W ERY = 1.7 GAP = 192 AVXM = QS = D — MERCURY
DEPTH = 8.52 KM ERZ = 7.2 NM = QD = D

07	MCY	IPD	15 13 17.95				22	1.9	15.4	235	116	3.14	3.18	0.04	
07	LCP	EP	15 13 20.97				14	1.5	31.4	292	102	6.16	5.90	0.27	
07	LSM	EP 4	15 13 22.52						40.3	270	100	7.71	7.00	0.71	
07	SSP	EPD4	15 13 20.86				12	1.4	40.9	300	100	6.05	7.10	-1.05	
07	JCN	EPD	15 13 22.05						41.9	217	100	7.24	7.25	-0.01	
07	CDM1	IPU	15 13 22.76				12	1.5	46.2	287	99	7.95	7.95	-0.00	
07	BGB	IPD	15 13 22.92				15	1.7	49.8	312	98	8.11	8.40	-0.23	
07	GMR	EP 4	15 13 24.47				12	1.5	66.0	4	96	9.66	11.13	-1.47	
07	HTI	IPD	15 13 33.71				18	2.0	114.7	25	53	18.90	18.98	0.12	

JUL M = 0 36 58.89 UTC RMS = 0.32 NO = 6 — FREE DEPTH SOLUTION
09 LAT = 36.861 N ERZ = 15.6 ERM = 22.9 AVFM = 2.6 Q = D
LONG = 118.420 W ERY = 14.4 GAP = 335 AVXM = QS = D
DEPTH = 0.72 KM ERZ = 9.9 NM = QD = D

09	IPD	IPU	0 37 16.49				21	2.1	90.5	94	35	15.60	15.28	0.32	
09	HCA	EP	0 37 16.00				22	2.2	104.4	103	34	17.11	17.53	-0.42	
		ESD	0 37 29.45									30.56	30.48	-0.11	
09	BRO	IPU	0 37 24.95				28	2.6	160.6	94	30	26.06	25.83	0.23	
09	EPN	IPD	0 37 28.31				33	2.8	190.7	78	30	29.42	29.74	-0.32	
09	LSM	IPD4	0 37 27.24				38	2.9	192.2	94	30	28.40	29.94	-1.54	
09	SSP	IPU	0 37 29.85				34	2.9	196.4	88	30	30.94	30.48	0.48	

JUL M = 2 13 48.95 UTC RMS = 0.48 NO = 19 — FREE DEPTH SOLUTION
09 LAT = 37.292 N ERZ = 2.3 ERM = 3.2 AVFM = 2.9 Q = D
LONG = 114.999 W ERY = 2.3 GAP = 189 AVXM = QS = C — DELAMAR MOUNTAINS
DEPTH = 4.53 KM ERZ = 4.5 NM = QD = D

09	PRN	IPU	2 13 50.79				94	3.1	17.8	345	100	2.74	3.29	-0.54	
09	NPN	IPD	2 13 55.78				81	3.1	44.8	7	94	7.69	7.65	0.04	
09	DLM	EPD	2 13 56.04				40	2.5	45.5	30	94	7.99	7.77	0.22	
09	HTI	IPU	2 13 56.57				64	2.9	53.0	333	93	8.52	8.98	-0.46	
09	GMR	IPU	2 13 58.71				49	2.8	69.1	274	92	10.66	11.59	-0.93	
09	SRG	IPD	2 13 59.99				84	3.2	70.2	355	92	11.94	11.78	0.16	
09	WLR	EPD	2 14 2.46				79	3.2	90.6	266	92	14.41	15.10	-0.58	
09	NPN	IPU4	2 14 4.95						96.3	327	92	16.90	16.02	0.88	
09	SCS	IPU	2 14 5.61				29	2.4	99.3	305	92	17.56	16.51	1.05	
09	ILT	IPD	2 14 5.70				39	2.7	103.2	291	92	17.65	17.15	0.50	
09	MCY	IPU	2 14 6.96				71	3.2	107.9	255	92	18.91	17.91	-1.00	
09	LCN	IPD	2 14 8.68				48	2.9	111.8	[illegible]	91	18.65	18.53	0.11	

9 0 8 1 4 0 2 3 3

LOCAL-EVENT DATA REPORT

JUL 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNAR	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
11	SDH	IPD	13 38	8.79			16	1.5	13.2	206	116	2.40	2.69	-0.25	
11	LOP	IPU	13 38	1.47			28	2.1	14.7	40	112	3.12	2.92	0.20	
11	SSP	IPD	13 38	1.56					19.8	14	106	3.21	3.78	-0.49	
11	MCY	IPU	13 38	3.63			33	2.3	29.6	110	101	5.25	5.25	0.00	
11	BRU	EPD	13 38	3.61					31.4	272	100	5.26	5.54	-0.28	
		ISU	13 38	8.48								10.05	9.70	0.34	
11	BEB	IPU	13 38	4.03			9	1.2	32.0	7	100	5.68	5.63	0.11	
11	JCN	IPU	13 38	4.63			14	1.6	37.9	156	98	6.48	6.58	-0.09	
11	SPRG	EPU	13 38	5.53			14	1.6	42.0	99	98	7.18	7.24	-0.06	
		ESD	13 38	11.39								13.08	12.66	0.38	
11	FPT	EPDA	13 38	12.33					46.9	255	97	13.94	8.82	6.06	
11	NPN	EP	13 38	8.77			20	1.9	60.7	307	95	10.42	10.27	0.14	
11	BPT	EP 2	13 38	10.10			22	2.0	63.3	339	95	11.75	10.69	0.66	
11	SGV	EPD	13 38	10.57			22	2.1	72.3	291	94	12.22	12.13	0.09	

JUL H = 14 53 1.66 UTC RMS = 0.10 NO = 8 — FREE DEPTH SOLUTION
11 LAT = 36.752 N ERH = 0.6 ERM = 0.8 AVFM = 1.3 Q = A
LONG = 116.201 W ERT = 0.5 GAP = 73 AVXM = QS = A — LATHROP WELLS
DEPTH = 7.75 KM ERZ = 1.3 NM = QD = A

11	LSH	IPD	14 53	3.13			29	2.1	1.7	151	167	1.47	1.46	0.01	
11	CDHS	EP 3	14 53	4.15			5	0.6	12.5	345	118	2.49	2.63	-0.14	
11	CDHI	IPU	14 53	4.15			17	1.6	12.5	345	118	2.49	2.63	-0.14	
11	SDH	EP	14 53	4.47			7	0.9	12.9	203	117	2.81	2.69	0.12	
11	LOP	IPD	14 53	4.76			17	1.6	15.2	42	113	3.10	3.03	0.07	
11	SSP	EP 4	14 53	2.43					20.8	16	108	0.77	1.76	-2.99	
11	MCY	IPU	14 53	6.92			16	1.6	30.2	109	102	5.26	5.36	-0.11	
11	BRO	EPD	14 53	7.06					30.8	272	102	5.40	5.45	-0.06	
11	PGB	EPU	14 53	7.43			16	1.7	32.1	9	101	5.76	5.66	0.10	
11	JCN	EP 4	14 53	10.55			5	0.7	30.1	155	99	8.89	6.63	2.25	

JUL H = 15 10 21.77 UTC RMS = 0.21 NO = 11 — FREE DEPTH SOLUTION
11 LAT = 37.690 N ERH = 0.6 ERM = 0.9 AVFM = 2.2 Q = C
LONG = 115.041 W ERT = 0.7 GAP = 117 AVXM = QS = B — MIKO
DEPTH = 0.51 KM ERZ = 1.5 NM = QD = C

11	APN	IPU	15 10 23.92				22	1.9	10.5	119	38	2.15	2.30	-0.15	
11	MTI	IPD	15 10 25.35				23	1.9	20.5	263	38	3.58	3.94	-0.15	
11	SRG	IPU	15 10 25.64				35	2.3	20.6	353	38	3.87	3.95	-0.07	
11	DLM	IPU	15 10 27.22				12	1.4	28.6	111	38	5.45	5.24	0.21	
		ISU	15 10 31.10									9.33	9.18	0.16	
11	PPN	IPD	15 10 27.48				28	2.1	32.3	181	38	5.71	5.85	-0.13	
11	TPU	EPU	15 10 30.99				16	1.7	50.6	259	38	9.22	9.47	-0.25	
11	BLT	EPU	15 10 39.46				25	2.3	100.1	255	38	17.69	16.87	0.82	
		ESU	15 10 51.44									29.67	29.52	0.15	
11	KRNA	EPD	15 10 41.96				27	2.4	118.2	273	38	20.19	19.82	0.37	
		ESDA	15 10 55.42									33.65	34.49	-1.84	
11	SPRG	EP 4	15 10 44.60				24	2.3	138.6	211	38	22.83	21.84	1.00	
11	LCP	EP 4	15 10 45.53				25	2.4	136.9	227	38	23.76	22.80	0.96	NOISY
11	BPT	EPUA	15 10 47.79				29	2.5	139.7	251	38	26.02	23.17	2.85	VERY E
11	MCY	EPUA	15 10 46.17				39	2.8	141.1	215	38	24.40	23.35	1.06	
11	LSH	EPU	15 10 47.42				39	2.8	152.5	226	38	25.65	24.83	0.82	NOISY

JUL H = 17 10 19.20 UTC RMS = 0.15 NO = 19 — FIXED DEPTH SOLUTION
12 LAT = 36.696 N ERH = 0.4 ERM = 0.5 AVFM = 2.0 Q = B — DEPTH CONTROL INADEQUATE
LONG = 116.284 W ERT = 0.3 GAP = 58 AVXM = QS = B — LATHROP WELLS
DEPTH = 5.00 KM ERZ = 1.5 NM = QD = A

12	LSH	IPD	17 10 21.20				32	2.2	4.9	13	130	1.40	1.35	0.06	
12	SDH	IPD	17 10 21.39				18	1.7	7.4	220	118	1.59	1.69	-0.10	
12	CDHI	IPU	17 10 23.04				34	2.3	18.4	351	101	3.24	3.40	-0.16	
12	CDHS	EP	17 10 23.38				17	1.7	18.4	351	101	3.59	3.40	0.18	
12	LCP	IPD	17 10 23.36				21	1.8	20.4	31	100	3.54	3.71	-0.15	
12	SSP	IPD	17 10 24.29				18	1.7	26.0	13	99	4.49	4.62	-0.13	
12	MCY	IPU	17 10 24.87				28	2.1	29.1	99	97	5.07	5.11	-0.04	
12	BPO	IPU	17 10 25.23				25	2.0	31.3	284	96	5.43	5.48	-0.05	
12	JCN	IPU	17 10 25.41				12	1.4	32.8	158	96	5.61	5.71	-0.10	
12	APR	EPD	17 10 26.16						37.3	247	95	6.36	6.44	-0.07	
12	BGB	IPU	17 10 26.22				28	2.2	38.2	8	95	6.42	6.54	-0.12	
12	SPRG	IPU	17 10 26.97				29	2.2	42.5	90	95	7.17	7.28	-0.10	
12	FPT	EPU	17 10 27.61				26	2.1	44.6	262	94	7.81	7.43	0.28	
12	GLR	EPU	17 10 30.23				17	1.8	60.7	23	93	10.43	10.23	0.35	
12	NPN	EPD	17 10 30.46				29	2.3	63.9	312	93	10.66	10.76	-0.10	
12	NCP	EP	17 10 30.55				11	1.4	64.2	169	93	10.75	10.88	-0.05	
12	GPV	EP 4	17 10 31.89				11	1.4	66.3	211	93	12.09	11.15	0.64	
12	SGV	EPD	17 10 32.30				32	2.4	73.9	295	93	12.50	12.38	0.13	

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LOCAL-LEVEL DATA REPORT

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNAR	DUR	FMAG	DIST (KM)	AZI (DEG)	AIM (DEG)	TIME (SEC)	TCAL (SEC)	RES (SEC)	REMARKS

14 LAT = 36.803 N ERX = 1.5 ERM = 1.5 AVFM = 1.0 Q = D
LONG = 115.400 W ERY = 0.7 GAP = 196 AVXM = QS = C MERCURY
DEPTH = 6.70 KM ERZ = 6.2 NM = QD = D

14	MCY	IPD	2 51 51.30					38	2.3	15.8	147	109	3.07	3.06	0.01
14	LOP	IPU	2 51 52.27					27	2.1	21.1	246	104	4.00	3.88	0.12
14	SSP	IPU	2 51 53.50							28.3	299	101	5.23	5.02	0.21
14	LSM	IPU	2 51 53.16					39	2.0	34.5	256	100	6.09	5.57	-0.08
14	CDMS	IPU	2 51 54.16					6	0.8	34.3	281	99	5.89	5.99	-0.09
14	CDM1	IPD	2 51 54.21					13	1.5	34.3	281	99	5.94	5.99	-0.04
14	BGB	IPU	2 51 54.55					13	1.5	36.5	315	98	6.29	6.35	-0.07
14	SDM	EPUG	2 51 55.60					22	2.0	39.6	264	97	7.33	6.85	0.48
14	JOM	EP	2 51 55.75					19	1.8	42.9	280	97	7.48	7.37	0.11
14	GLR	EP	2 51 55.68							44.5	351	97	7.33	7.64	-0.15
14	EPM	EPD	2 51 57.96					30	2.3	57.0	323	95	9.69	9.65	0.04
14	BRO	EP	2 51 58.00					13	1.6	61.3	266	95	10.53	10.36	0.18

JUL H = 2 57 15.16 UTC RMS = 0.02 NO = 8 FREE DEPTH SOLUTION
14 LAT = 36.753 N ERX = ERM = AVFM = 1.0 Q = C
LONG = 115.965 W ERY = GAP = 229 AVXM = QS = A MERCURY
DEPTH = 23.29 KM ERZ = NM = QD = D

14	MCY	IPD	2 57 19.46					23	1.9	18.2	179	156	4.38	4.31	-0.01
14	LOP	IPU	2 57 20.49					18	1.7	21.3	302	137	5.33	5.33	-0.00
14	LSM	EPU	2 57 21.23					19	1.8	27.5	267	129	6.07	6.08	-0.01
14	SSP	IPU	2 57 21.55							29.6	310	127	6.39	6.35	0.05

JUL H = 12 4 29.19 UTC RMS = 0.05 NO = 5 FREE DEPTH SOLUTION
14 LAT = 37.108 N ERX = 2.4 ERM = 2.6 AVFM = 2.1 Q = D
LONG = 116.199 W ERY = 1.0 GAP = 200 AVXM = QS = C SILENT CANYON - YUCCA FLAT
DEPTH = 17.01 KM ERZ = 3.8 NM = QD = D

14	EPM	IPU	12 4 33.21					40	2.4	16.2	317	135	4.02	4.03	-0.01
14	SSP	EPU	12 4 33.80					22	1.9	20.3	185	128	4.61	4.53	0.08
14	LOP	EP	12 4 34.69					22	1.9	20.3	174	119	5.50	5.60	-0.10
14	LSM	EP	12 4 36.78					27	2.1	41.4	189	111	7.59	7.55	0.04
14	MCY	EPU	12 4 38.66					22	2.0	53.8	157	106	9.47	9.46	0.01

JUL H = 12 32 42.13 UTC RMS = 0.06 NO = 9 FREE DEPTH SOLUTION
14 LAT = 37.096 N ERX = 0.3 ERM = 0.4 AVFM = 1.7 Q = C
LONG = 116.188 W ERY = 0.2 GAP = 108 AVXM = QS = C SILENT CANYON - YUCCA FLAT
DEPTH = 1.62 KM ERZ = 81.5 NM = QD = B

14	BGB	IPD	12 12 43.52					29	2.1	7.1	210	38	1.39	1.53	-0.09
14	EPM	EPU	12 12 45.40					20	2.0	18.0	318	38	3.31	3.30	0.01
14	SSP	EPU	12 12 45.75							18.9	188	38	3.62	3.44	0.17
14	GLR	IPU	12 12 45.46					29	2.1	19.2	52	38	3.33	3.48	-0.01
14	LOP	EP	12 12 47.33					22	1.9	26.6	176	38	5.20	4.70	0.50
14	CDM1	EPU2	12 12 46.70					15	1.6	28.3	204	38	4.57	4.98	-0.41
14	CDMS	FPU3	12 12 46.70					3	0.2	28.3	204	38	4.57	4.98	-0.41
14	LSM	EP	12 12 49.07					24	2.0	40.1	191	38	6.94	6.88	0.05
14	MCY	EPU	12 12 50.90					23	2.0	52.0	157	38	8.8.	8.82	-0.02

JUL H = 12 44 29.66 UTC RMS = 0.05 NO = 4 FREE DEPTH SOLUTION
14 LAT = 37.039 N ERX = ERM = AVFM = 1.5 Q = C
LONG = 116.139 W ERY = GAP = 187 AVXM = QS = A SILENT CANYON - YUCCA FLAT
DEPTH = 1.01 KM ERZ = NM = QD = D

14	BGB	IPD	12 44 31.30					29	2.1	7.9	269	38	1.66	1.78	-0.09
14	GLR	IPD	12 44 33.38					15	1.6	20.9	31	38	3.72	3.87	-0.00
14	CDM1	EPD	12 43 34.35					29	2.1	25.5	219	38	4.69	4.63	0.05
14	CDMS	EPU	12 44 34.35					3	0.2	25.5	219	38	4.69	4.63	0.05

JUL H = 16 42 50.21 UTC RMS = 0.10 NO = 9 FREE DEPTH SOLUTION
14 LAT = 36.799 N ERX = 0.9 ERM = 1.0 AVFM = 1.3 Q = C
LONG = 115.950 W ERY = 0.5 GAP = 192 AVXM = QS = B MERCURY
DEPTH = 9.57 KM ERZ = 1.9 NM = QD = D

14	MCY	IPD	16 42 53.20					14	1.5	15.3	184	119	2.99	3.17	-0.18
		ISU	16 42 55.80										5.59	5.55	0.04
14	LOP	IPD	16 42 54.25					8	1.0	20.4	287	112	4.04	3.92	0.12
14	SSP	EPU	16 42 55.29							27.7	300	107	5.08	5.05	0.03

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JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNR	DIM	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
DEPTH = 1.20 KM			ERZ = 1.2 KM =								QD = D				
17	SPRG	IPU	14 16 5.38				9	1.1	11.3	178	38	2.26	2.28	-0.02	
17	MCY	EPU	14 16 5.46				16	1.6	11.6	204	39	2.34	2.33	0.01	
		ISO	14 16 7.15									4.03	4.07	-0.05	
17	LOP	IPU	14 16 7.41				6	0.8	25.5	295	38	4.29	4.58	-0.30	
17	LSM	EPO	14 16 8.90				10	1.2	32.5	266	38	5.78	5.73	0.05	
17	SSP	EPU	14 16 9.07						33.3	384	38	5.95	5.86	0.09	
17	CDHS	IPU	14 16 9.68				12	1.4	38.2	287	38	6.56	6.66	-0.10	
17	CDHI	EPO	14 16 10.00				15	1.6	38.2	287	38	6.88	6.66	0.22	
17	SDM	EP	14 16 10.19						40.3	252	38	7.07	7.00	0.07	
JUL M = 22 3 14.17 UTC			RMS = 0.16	NO = 4											FIXED DEPTH SOLUTION
17 LAT = 37.170 N			ERX =	ERM =		AVFM =		1.5	Q = C						DEPTH CONTROL INADEQUATE
LONG = 115.270 W			ERY =	GAP = 213		AVXM =			QS = B						BLANO
DEPTH = 5.00 KM			ERZ =	NM =					QD = D						
17	EPR	EPU	22 3 15.86						7.4	91	117	1.69	1.70	-0.01	
17	SPRG	IPU	22 3 26.49				12	1.5	71.4	222	93	12.32	11.98	0.34	
17	MCY	IPD4	22 3 27.30				14	1.8	83.6	228	92	13.13	13.96	-0.83	
		ISU4	22 3 30.22									16.05	24.43	-8.38	
17	BGB	EPU4	22 3 32.66				12	1.6	86.4	260	92	18.49	14.81	4.13	
17	LOP	EP 4	22 3 38.91				7	1.1	87.2	206	92	16.74	14.55	2.19	
		ESD4	22 3 34.02									19.85	25.46	-5.61	
17	JON	EP	22 3 32.12						110.8	223	92	17.95	18.25	-0.30	
17	SDM	EPO	22 3 32.68						111.6	239	92	18.03	18.51	-0.08	
JUL M = 12 13 41.73 UTC			RMS = 0.27	NO = 10											FREE DEPTH SOLUTION
18 LAT = 37.087 N			ERX = 1.1	ERM = 1.4		AVFM =		2.3	Q = C						
LONG = 116.181 W			ERY = 0.9	GAP = 94		AVXM =			QS = C						SILENT CANYON - TUCCA FLAT
DEPTH = 1.49 KM			ERZ = 340.5	NM =					QD = C						
18	BGB	IPD4	12 13 43.15				45	2.5	6.8	218	38	1.42	1.51	-0.03	
18	SSP	IPU	12 13 45.38						18.2	191	38	3.65	3.36	0.29	
18	EPN	IPU	12 13 45.08				68	2.8	19.8	318	38	3.31	3.49	-0.17	
18	GLR	EPU	12 13 45.03				36	2.3	19.2	49	38	3.30	3.51	-0.06	
18	LOP	EPD4	12 13 46.44				44	2.5	25.8	177	38	4.71	4.59	0.12	
		4	12 13 0.00												
18	CDHS	EPU	12 13 46.17				21	1.9	27.9	206	38	4.44	4.93	-0.49	
18	CDHI	IPO	12 13 46.23				35	2.3	27.9	206	38	4.50	4.93	-0.43	
18	BPT	IPU	12 13 49.46				17	1.7	38.2	305	38	7.73	6.61	0.73	
18	LSM	EPO	12 13 48.38				47	2.6	39.4	192	38	6.57	6.80	-0.23	
18	BLT	EPD	12 13 48.77				35	2.4	41.8	6	38	7.04	7.19	-0.15	
18	MCY	IPD4	12 13 50.42				43	2.6	51.0	158	38	8.69	8.69	0.00	
		4	12 13 0.00												
18	SPRG	EPU	12 13 51.25				18	1.8	54.7	143	38	9.52	9.29	0.23	
18	NPN	EPO	12 13 51.20				18	1.8	56.7	269	38	9.51	9.61	-0.10	
JUL M = 15 18 52.62 UTC			RMS = 0.04	NO = 6											FREE DEPTH SOLUTION
18 LAT = 36.751 N			ERX = 0.6	ERM = 0.6		AVFM =		1.2	Q = B						
LONG = 116.304 W			ERY = 0.3	GAP = 160		AVXM =			QS = A						LATHROP WELLS
DEPTH = 10.92 KM			ERZ = 1.1	NM =					QD = C						
18	LSM	IPO	15 18 54.60				13	1.4	3.2	114	163	1.90	2.02	-0.05	
18	SDM	EP	15 18 55.45						12.0	194	130	2.83	2.86	-0.03	
		ESO	15 18 57.66									5.04	5.00	0.04	
18	CDHI	IPU	15 18 55.50				12	1.3	12.2	355	129	2.88	2.88	-0.01	
18	LOP	IPO	15 18 5[illegible].17				8	1.0	16.8	47	120	3.55	3.09	0.06	
		ESD4	15 18 59.63									7.01	6.11	0.90	
18	SSP	EPU4	15 18 59.92						20.8	22	115	7.30	4.0[illegible]	3.22	
18	MCY	IPU	15 18 58.36				9	1.2	32.1	108	107	5.74	5.80	-0.06	
JUL M = 15 39 43.45 UTC			RMS = 0.08	NO = 4											FREE DEPTH SOLUTION
18 LAT = 36.761 N			ERX =	ERM =		AVFM =		1.0	Q = C						
LONG = 116.309 W			ERY =	GAP = 229		AVXM =			QS = A						LATHROP WELLS
DEPTH = 7.30 KM			ERZ =	NM =					QD = D						
18	LSM	IPO	15 39 45.00				9	1.1	4.1	127	140	1.55	1.55	-0.00	
18	CDHI	EPU	15 39 46.24				8	1.0	11.0	356	119	2.39	2.38	0.01	
18	LOP	EPO	15 39 47.01						16.3	51	110	3.16	3.16	-0.00	
		ESU	15 39 49.38									5.53	5.53	-0.00	

9 0 8 1 4 0 2 3 6

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNAG	DUR	FNAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
20	SPRG	EPU	9 47 26.56				15	1.6	39.8	158	102	6.46	6.45	0.01	

JUL M = 23 4 18.78 UTC AMS = 0.18 NO = 6 — FREE DEPTH SOLUTION
20 LAT = 36.786 N EAX = 2.1 ERM = 2.3 AVFM = 1.2 Q = C
LONG = 116.383 W ERY = 0.9 GAP = 191 AVXM = US = B — LATHROP WELLS
DEPTH = 5.69 KM ERZ = 2.5 NM = OD = D

20	LSM	IP	23 4 20.00				11	1.2	6.6	17	136	1.22	1.39	-0.18
20	JOH	IPD	23 4 20.52						7.4	205	122	1.74	1.74	-0.01
		IPD	23 4 21.98									3.12	3.05	0.07
20	LOP	EP	23 4 22.51						20.4	36	102	3.73	3.74	-0.02
		ISU	23 4 25.69									6.71	6.55	0.16
20	JOH	EP	23 4 24.76						34.5	149	97	5.98	6.00	-0.02

JUL M = 2 8 41.81 UTC RMS = 0.51 NO = 4 — FREE DEPTH SOLUTION
21 LAT = 36.782 N ERX = ERM = AVFM = 0.7 Q = D
LONG = 116.057 W ERY = GAP = 165 AVXM = US = D — LATHROP WELLS
DEPTH = 2.01 KM ERZ = NM = OD = D

21	LOP	EPU	2 8 43.92				6	0.7	12.7	309	92	2.11	2.42	-0.31
21	MCY	EP	2 8 44.19				7	0.9	15.8	147	91	2.38	2.93	-0.55
21	LSM	EP	2 8 45.50						19.7	256	98	3.69	3.56	0.13
		ESU4	2 8 50.80									8.19	6.23	1.96
21	SPRG	EP	2 8 46.94				5	0.6	24.2	114	98	5.13	4.29	0.84

JUL M = 4 7 59.95 UTC RMS = 0.34 NO = 8 — FIXED DEPTH SOLUTION
21 LAT = 37.078 N ERX = 2.2 ERM = 2.6 AVFM = 1.7 Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.191 W ERY = 1.4 GAP = 107 AVXM = US = C — SILENT CANYON - YUCCA FLAT
DEPTH = 5.00 KM ERZ = 6.6 NM = OD = B

21	BGG	IPD	4 8 1.37				15	1.5	5.5	217	126	1.42	1.43	0.05
21	SSP	EPD	4 8 2.73				21	1.9	17.1	188	102	2.78	3.19	-0.41
21	EPN	EPU	4 8 3.24				25	2.0	19.2	322	100	3.29	3.53	-0.23
21	GLR	EPD	4 8 3.38				27	2.1	20.5	69	100	3.43	3.73	-0.15
21	LCP	EP	4 8 4.94				20	1.6	24.9	175	98	5.01	4.43	0.60
21	COH1	EP	4 8 6.45				15	1.6	26.6	205	97	6.50	6.71	-0.21
21	BMT	EPU2	4 8 7.68				7	1.0	38.1	307	95	7.65	6.56	0.69
21	LSM	EPD4	4 8 9.31				22	1.9	38.3	191	95	9.36	6.60	2.77
21	MCY	EP	4 8 8.72				21	2.0	50.5	156	94	8.77	8.57	0.20

JUL M = 10 50 14.89 UTC RMS = 3.10 NO = 6 — FREE DEPTH SOLUTION
22 LAT = 36.950 N ERX = 0.7 ERM = 0.9 AVFM = 2.0 Q = C
LONG = 115.635 W ERY = 9.5 GAP = 122 AVXM = US = B — MERCURY
DEPTH = 14.55 KM ERZ = 2.0 NM = OD = C

22	MCY	IPU	10 50 22.75				45	2.6	43.7	222	107	7.86	7.77	0.09
22	GPR	IPU	10 50 22.71				45	2.6	43.8	344	107	7.82	7.78	0.08
22	LSM	IPU4	10 50 27.12				33	2.4	61.7	247	102	12.23	10.60	1.63
22	SPRG	EPU	10 50 26.15						65.8	139	101	11.26	11.26	0.05
22	EPN	EP 4	10 50 32.65				34	2.4	67.7	295	101	17.76	11.56	6.20
22	JOH	EPD2	10 50 26.56				18	1.9	70.8	216	100	11.67	12.06	-0.38
22	PRN	IPU	10 50 27.12				27	2.2	72.2	46	100	12.23	12.29	-0.06
22	NCP	EP	10 50 31.68				33	2.5	102.8	297	53	16.79	16.84	-0.05
22	RANA	EPD4	10 50 31.45				32	2.5	110.2	323	53	16.56	17.81	-1.25

JUL M = 14 11 43.26 UTC RMS = 0.62 NO = 6 — FREE DEPTH SOLUTION
22 LAT = 36.663 N ERX = 4.2 ERM = 9.5 AVFM = 1.9 Q = D
LONG = 115.730 W ERY = 8.5 GAP = 170 AVXM = US = D — MERCURY
DEPTH = 9.84 KM ERZ = 24.5 NM = OD = C

22	MCY	IPU	14 11 47.87				21	1.8	20.8	269	113	4.61	3.99	0.62
22	LCP	EPU	14 11 51.30				18	1.8	44.4	298	101	8.04	7.70	0.34
		ESO	14 11 55.62									12.34	13.46	-1.12
22	LSM	EPU	14 11 52.23				19	1.9	49.2	288	100	8.97	8.46	0.51
		ESO	14 11 58.09									14.83	14.80	0.03
22	SPRG	EPD	14 11 51.69				22	2.0	54.4	109	99	8.63	9.29	-0.61

JUL M = 20 0 44.32 UTC RMS = 2.56 NO = 4 — FREE DEPTH SOLUTION
22 LAT = 37.135 N ERX = ERM = AVFM = 2.0 Q = D
LONG = 115.340 W ERY = GAP = 222 AVXM = US = D — ALAMO

LOCAL-LEVEL DATA REPORT

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SNRG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
	SHRG	EPO	10 5 57.77				18	1.8	49.7	111	106	8.68	8.75	-0.02	
23	LSM	EPU	10 5 58.68				22	2.0	54.1	279	105	9.59	9.43	0.16	
23	GPR	IPU4	10 5 54.34						74.9	353	101	5.25	12.74	-7.49	

JUL H = 13 18 49.19 UTC RMS = 0.23 NO = 5 — FREE DEPTH SOLUTION
23 LAT = 37.036 N ERX = 1.5 ERH = 6.2 AVFM = 2.0 Q = D
LONG = 115.502 W ERY = 6.0 GAP = 108 AVXM = QS = D — GROOM LAKE
DEPTH = 21.06 KM ERZ = 0.3 NM = QD = D

23	GPR	EPU	13 18 56.80				27	2.1	40.8	324	116	7.61	7.72	-0.11
23	PRM	EPD4	13 19 1.55						57.5	64	109	12.36	10.23	2.13
		ESR	13 19 7.18									18.15	17.91	0.24
23	MCT	EPU4	13 18 56.97				24	2.1	50.4	225	109	7.78	10.36	-2.59
23	LCP	EP	13 19 0.50				22	2.0	62.6	251	53	11.31	10.99	0.31
23	SPRG	EPO	13 19 0.55				17	1.8	66.6	152	53	11.36	11.45	-0.09
23	LSM	EPU	13 19 1.65				20	2.0	76.1	204	53	12.26	12.74	-0.48

JUL H = 11 39 43.31 UTC RMS = 0.04 NO = 9 — FREE DEPTH SOLUTION
24 LAT = 37.085 N ERX = 0.3 ERH = 0.3 AVFM = 1.8 Q = B
LONG = 116.241 W ERY = 0.1 GAP = 146 AVXM = QS = A — SILENT CANYON - YUCCA FLAT
DEPTH = 7.20 KM ERZ = 0.4 NM = QD = C

24	BGB	IPU	11 39 46.63				27	2.0	1.4	125	168	1.32	1.37	0.00
24	SSP	IPU	11 39 46.10				27	2.0	13.5	171	114	2.79	2.74	0.05
24	EPN	EPO	11 39 47.07				30	2.2	20.1	339	106	3.76	3.75	0.00
24	CDM1	IPU	11 39 47.28				18	1.7	21.6	198	105	3.97	3.99	-0.02
24	CDMS	IPU	11 39 47.25				5	0.6	21.6	198	105	3.94	3.99	-0.05
		ESU	11 39 50.27					—				6.96	6.98	-0.02
24	LCP	EPO	11 39 47.35				22	1.9	22.2	163	105	4.04	4.08	-0.04
24	GLR	EPD4	11 39 47.60				15	1.6	26.2	49	102	4.09	4.71	-0.67
24	LSM	EP	11 39 49.35				20	2.1	34.1	185	109	6.04	5.97	0.07
24	MCT	EPU	11 39 51.73				27	2.2	49.3	150	97	8.42	8.42	0.00

JUL H = 20 30 50.30 UTC RMS = 0.11 NO = 26 — FREE DEPTH SOLUTION
25 LAT = 37.254 N ERX = 0.2 ERH = 0.3 AVFM = 3.4 Q = C
LONG = 116.474 W ERY = 0.2 GAP = 48 AVXM = QS = C — SILENT CANYON - NORTH
DEPTH = 2.22 KM ERZ = 5.8 NM = QD = C

25	EPN	IP	20 30 53.02						14.1	109	92	2.72	2.64	0.07
25	BGB	IPU	20 30 55.95				179	3.7	32.5	138	90	5.65	5.64	0.06
25	BLT	IPO	20 30 56.72						37.8	53	90	6.42	6.50	-0.08
25	GLR	EPO	20 30 57.05				93	3.2	41.0	99	90	6.75	7.01	-0.12
25	SSP	IPO	20 30 57.63				241	4.0	43.0	148	90	7.33	7.35	-0.03
25	CDMS	EPU	20 30 58.06						45.9	162	90	7.76	7.82	-0.06
25	CDM1	IPU	20 30 58.12				142	3.6	45.9	162	90	7.82	7.82	0.00
25	CTS	IPO	20 30 58.55				130	3.5	48.2	332	90	8.25	8.19	0.05
25	LCP	EPO	20 30 59.00				145	3.6	52.1	148	90	8.70	8.83	-0.13
25	KRNA	IPO	20 30 59.61				150	3.7	55.6	9	90	9.31	9.40	-0.09
25	SGV	IPD4	20 31 4.11				59	2.9	58.2	239	90	13.81	9.81	4.00
25	LSM	IPO	20 31 0.34				220	4.0	69.0	163	90	10.04	10.10	-0.07
25	SDM	EPO	20 31 1.57				110	3.5	68.7	170	90	11.27	11.52	-0.25
25	FMT	EPO	20 31 2.50				97	3.4	73.4	202	90	12.20	12.24	0.00
25	QCS	EPU	20 31 3.03				127	3.6	75.4	41	90	12.73	12.61	0.12
25	MCT	IPO	20 31 3.96				215	4.1	88.0	145	90	13.66	13.36	0.29
25	GVN	IPO	20 31 4.07				51	2.8	82.2	250	90	13.77	13.71	0.06
25	TPU	EPO	20 31 4.07				101	3.4	82.8	62	90	13.77	13.81	-0.04
25	MCM	EPO	20 31 5.62				47	2.8	93.0	283	90	15.32	15.47	-0.16
25	PZP	EPU	20 31 5.80				46	2.8	94.4	302	90	15.50	15.70	-0.02
25	APP	EPU	20 31 6.36				115	3.6	95.1	180	90	16.06	15.81	0.24
25	JCN	EPU	20 31 6.22				115	3.6	96.3	160	90	15.92	16.01	-0.09
25	LCM	EPU	20 31 7.60				33	2.5	104.2	269	90	17.30	17.29	0.00
25	GRV	IPU	20 31 10.45				110	3.6	119.8	148	90	20.15	19.83	0.22
25	SVP	EPU	20 31 11.72				51	3.0	120.0	294	90	21.42	21.16	0.11
25	NOP	IPU4	20 31 12.60				137	3.9	128.3	167	90	22.30	21.21	1.17
25	PPK	EPU	20 31 12.03				40	2.8	128.5	279	90	21.73	21.24	0.48
25	DLM	EPU	20 31 16.12				89	3.6	150.5	76	53	25.82	25.29	0.53

JUL H = 21 14 11.08 UTC RMS = 0.13 NO = 24 — FREE DEPTH SOLUTION
25 LAT = 37.255 N ERX = 0.3 ERH = 0.4 AVFM = 3.4 Q = C
LONG = 116.470 W ERY = 0.2 GAP = 51 AVXM = QS = C — SILENT CANYON - NORTH
DEPTH = 1.66 KM ERZ = 136.3 NM = QD = C

25	EPN	IPO	21 14 13.50						13.0	109	38	2.42	2.60	-0.19
25	NGN	IPO	21 14 16.72				130	3.5	32.4	138	38	5.64	5.63	0.06

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
		ISU4	22 3 30.22									16.05	20.05	-4.30	
17	BCU	EPU4	22 3 32.66				12	1.6	86.4	260	92	18.49	18.41	0.13	
17	LCP	EP 4	22 3 30.91				7	1.1	87.2	246	92	16.74	14.55	2.19	
		ISO4	22 3 34.02									19.45	25.06	-5.61	
17	JCN	EP	22 3 32.12						110.0	223	92	17.95	18.25	-0.30	
17	SCM	EPO	22 3 32.60						111.6	239	92	18.43	18.51	-0.08	

JUL H = 17 19 57.67 UTC RMS = 0.10 NO = 11 — FREE DEPTH SOLUTION
26 LAT = 36.792 N ERX = 0.5 ERM = 1.0 AVFM = 2.2 Q = C
LONG = 115.650 W ERY = 0.8 GAP = 170 AVXM = OS = C — MERCURY
DEPTH = 0.41 KM ERZ = 122.5 NM = OD = C

26	MCY	EPU4	17 20 1.20				45	2.5	28.2	261	38	3.53	5.21	-1.68
26	LCP	EPU	17 20 6.21				33	2.3	49.1	290	38	8.54	8.61	-0.07
26	SMRG	IPU	17 20 6.28				27	2.2	49.0	116	38	8.61	8.66	-0.08
26	JCN	EPO	17 20 6.59				24	2.1	49.8	234	38	8.92	8.72	0.19
26	LSM	IPU	17 20 7.15				40	2.5	55.7	274	38	9.48	9.67	-0.20
26	SSP	EPU	17 20 7.56				38	2.5	56.4	296	38	9.89	9.79	0.09
26	SCM	EPU	17 20 8.02				37	2.5	61.8	264	38	10.35	10.66	-0.32
26	CDM1	EPU	17 20 8.13				29	2.3	62.1	286	38	10.46	10.71	-0.26
26	CDM5	EPO	17 20 8.26				24	2.1	62.1	286	38	10.59	10.71	-0.13
26	BGB	EPU	17 20 8.62				30	2.3	63.5	306	38	10.95	10.95	0.05
26	GLR	EP 4	17 20 10.08				31	2.3	64.2	329	38	12.41	11.05	1.50
26	GMR	EPO4	17 20 1.65				45	2.7	71.0	351	38	3.98	12.16	-8.18
26	NCP	EPO	17 20 11.50				23	2.1	78.0	215	38	13.83	13.30	0.53
26	BRO	EPU	17 20 12.55				21	2.1	87.4	274	38	14.92	14.83	0.09
26	PRN	IPU4	17 20 7.18				27	2.3	94.7	32	38	9.51	16.02	-6.52
26	SGY	EPO4	17 20 23.71				6	1.1	127.2	284	38	26.04	21.30	4.74

JUL H = 18 33 7.57 UTC RMS = 0.03 NO = 5 — FREE DEPTH SOLUTION
26 LAT = 36.960 N ERX = 0.2 ERM = 0.2 AVFM = 2.0 Q = D
LONG = 115.654 W ERY = 0.1 GAP = 126 AVXM = US = C — MERCURY
DEPTH = 5.99 KM ERZ = 5.8 NM = OD = D

26	GPR	IPU	18 33 15.39				29	2.2	42.7	306	96	7.82	7.34	0.48
26	MCY	IPU	18 33 15.29				29	2.2	43.0	220	96	7.72	7.39	0.33
26	LCP	EPU4	18 33 18.79				18	1.8	47.2	256	95	11.22	8.06	3.15
26	LSM	IPU4	18 33 19.73				27	2.2	60.3	296	94	12.16	10.19	1.97
26	SMRG	EPU	18 33 18.84				30	2.3	67.4	139	94	11.27	11.34	-0.03
26	BLT	EPU4	19 33 18.30						70.1	323	94	10.73	11.77	-1.04
26	JCN	EPO	18 33 18.62				15	1.7	70.3	215	94	11.05	11.81	-0.76
26	SCM	EPO4	18 33 20.70				13	1.6	70.3	240	94	13.13	11.81	1.32
26	PRN	EPU	18 33 19.58				28	2.0	73.1	47	93	12.01	12.26	-0.25

JUL H = 9 42 4.04 UTC RMS = 0.01 NO = 8 — FREE DEPTH SOLUTION
27 LAT = 36.608 N ERX = 1.9 ERM = 2.6 AVFM = 2.2 Q = C
LONG = 115.249 W ERY = 1.8 GAP = 140 AVXM = OS = C — MAYFORD PEAK
DEPTH = 1.04 KM ERZ = 572.9 NM = OD = C

27	SMRG	EPU	9 42 12.30						18.0	152	38	3.26	3.42	-0.11
27	MCY	IPU	9 42 19.22				38	2.5	63.8	271	38	10.15	10.86	-0.68
27	JCN	IPU	9 42 23.07				18	1.9	80.0	253	38	14.03	13.49	0.54
27	LCP	EPU	9 42 22.71				23	2.2	85.1	286	38	13.67	14.33	-0.66
27	PPK	EPU	9 42 23.64				22	2.1	86.0	12	38	14.60	14.48	0.12
27	GMR	IPU4	9 42 19.28				36	2.6	89.2	329	38	10.24	14.99	-4.74
27	LSM	IPU	9 42 23.63				27	2.3	92.0	276	38	14.59	15.44	-0.85
27	SCM	EPO	9 42 24.54				15	1.8	97.5	270	38	15.50	16.34	-0.84
27	CDM1	EPO	9 42 25.68				21	2.1	98.2	284	38	16.64	16.46	0.18
27	NCP	EPU4	9 42 28.07				18	2.0	99.5	235	38	19.03	16.68	2.36

JUL H = 13 50 20.09 UTC RMS = 0.00 NO = 4 — FREE DEPTH SOLUTION
27 LAT = 36.921 N ERX = ERM = AVFM = 1.7 Q = C
LONG = 115.534 W ERY = GAP = 136 AVXM = OS = A — MERCURY
DEPTH = 20.06 KM ERZ = NM = OD = D

27	LCP	IPO	13 50 38.19				16	1.7	57.0	262	108	10.10	10.10	-0.00
27	SMRG	IPO	13 50 38.19						57.3	144	109	10.10	10.15	0.00
27	PRN	EPO	13 50 40.00				12	1.5	68.9	39	53	11.91	11.91	0.00
27	LSM	EPO	13 50 40.00				17	1.8	68.9	253	53	11.91	11.91	0.00

JUL H = 5 0 29.67 UTC RMS = 0.10 NO = 10 — FREE DEPTH SOLUTION
24 LAT = 36.907 N ERX = 0.8 ERM = 0.8 AVFM = 1.6 Q = C

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LOCAL EQUIP DATA REPORT

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MM)	PER (SEC)	AMAG	DUR	PMAG	DIST (KM)	AZI (DEG)	ALN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
31	SPRG	IPD	3 48 11.60				38	2.1	2.9	265	167	1.71	1.69	0.02	
31	MCY	IPU	3 48 13.01				38	2.3	14.1	246	116	3.12	3.25	-0.14	
31	LCP	EPU	3 48 16.52				28	1.9	38.3	297	101	6.63	6.69	-0.07	
31	JCN	EP	3 48 17.00				16	1.7	40.1	225	101	7.11	6.98	0.12	
31	LSM	IPU	3 48 17.47				38	2.2	43.6	276	100	7.58	7.55	0.03	
31	SSP	IPD	3 48 17.92				17	1.8	46.2	383	99	8.03	7.96	0.07	
31	SCM	EPD	3 48 18.40				12	1.5	49.6	264	99	8.51	8.51	-0.00	
31	CCMI	EPU	3 48 19.05				21	2.0	50.8	291	98	8.56	8.70	-0.14	
31	BGB	EPU	3 48 19.33				38	2.3	54.6	314	98	9.48	9.32	0.17	
31	SPRG	EPD	3 48 20.15				14	1.9	60.4	111	97	10.26	10.24	0.06	
31	GPR	EPU	3 48 21.70				27	2.1	70.8	1	96	11.61	11.93	-0.13	
31	NOP	EPU	3 48 21.90						71.0	208	96	12.01	11.96	0.04	
		ESU	3 48 30.60									20.71	20.94	-0.23	
31	BRO	EPU	3 48 22.83				18	1.9	75.3	276	96	12.94	12.66	0.28	
31	NPN	EPUG	3 48 32.30				26	2.4	138.3	35	93	22.41	20.95	1.46	
31	SRG	EPUG	3 48 35.25				33	2.7	146.3	26	93	25.36	23.03	2.33	

JUL H = 19 22 16.68 UTC RMS = 0.37 NO = 9 — FREE DEPTH SOLUTION
31 LAT = 37.067 N ERX = 1.8 ERM = 2.4 AVRM = 3.3 Q = C
LONG = 116.001 W ERY = 1.6 GAP = 146 AVXM = QS = C — SILENT CANYON - YUCCA FLAT
DEPTH = 2.06 KM ERZ = 6.9 NM = QD = C

31	GPR	EPD	19 22 22.58						36.0	35	90	5.98	6.21	-0.22	
31	BLT	EPD	19 22 23.40						45.4	345	90	6.80	7.73	-0.93	
31	TPU	EPD	19 22 28.03				89	3.3	67.4	28	90	11.43	11.31	0.12	
31	KPNA	EPD	19 22 30.00						83.8	336	90	13.40	13.84	-0.44	
31	CTS	EPU	19 22 32.20						90.4	315	90	15.60	15.05	0.56	
31	PRN	EPD	19 22 31.85				85	3.3	92.5	66	90	15.25	15.39	-0.14	
31	NPN	EPU	19 22 35.95				79	3.3	114.5	55	90	19.35	18.97	0.39	
31	GRV	EPU	19 22 35.60						114.6	212	90	19.00	19.98	-0.88	
31	SRG	EPUG	19 22 37.78						122.5	42	90	21.18	20.27	0.92	
31	TNP	EPD	19 22 41.83						155.7	316	53	25.23	24.94	0.29	

JUL H = 19 26 15.98 UTC RMS = 0.34 NO = 16 — FREE DEPTH SOLUTION
31 LAT = 37.057 N ERX = 1.8 ERM = 1.4 AVRM = 3.9 Q = C
LONG = 116.002 W ERY = 0.9 GAP = 122 AVXM = QS = C — SILENT CANYON - YUCCA FLAT
DEPTH = 0.88 KM ERZ = 21.7 NM = QD = C

31	BLT	EPD	19 26 23.40				167	3.7	46.4	345	38	7.42	8.06	-0.64	COLLAPSE
31	BRO	EPU	19 26 26.94						64.4	280	38	10.96	11.00	-0.04	
31	TPU	EPD	19 26 28.10				190	3.9	68.4	27	38	12.12	11.68	0.48	
31	JON	EPU	19 26 27.62				178	3.8	69.1	187	38	11.64	11.76	-0.12	
31	NPN	EPC	19 26 28.00				182	3.9	72.6	272	38	12.02	12.33	-0.30	
31	OCS	EPUG	19 26 30.70						79.2	6	38	14.72	13.41	1.31	
31	FMT	EPU	19 26 29.82						83.4	236	38	13.84	14.08	-0.14	
31	KPNA	EPD	19 26 29.98						83.9	336	38	14.00	14.16	-0.16	
31	APR	EPU	19 26 30.10				160	3.8	88.5	210	38	14.12	14.26	-0.14	
31	CTS	EPD	19 26 31.80						91.1	315	38	15.82	15.34	0.48	
31	PRN	EPU	19 26 31.80						93.6	65	38	15.82	15.65	0.17	
31	MTI	EPU	19 26 31.60						94.3	43	38	15.62	15.86	-0.24	
31	NCP	IPU	19 26 33.49				217	4.2	104.8	187	38	17.51	17.43	0.08	
31	GRV	EPD	19 26 35.65				178	4.0	113.6	212	38	19.67	19.00	0.57	
31	GVN	EPU	19 26 36.65				166	4.0	119.5	267	34	20.67	19.95	0.52	
31	MCA	EPUG	19 26 37.20						122.7	248	38	21.22	20.47	0.75	
31	DLM	EPDG	19 26 38.70						127.5	61	38	22.72	21.25	1.47	
31	OSM	EPU	19 26 39.30						143.9	213	38	23.32	23.63	-0.30	
31	PPK	EPD	19 26 44.20				186	4.1	178.0	284	30	28.22	27.54	0.68	

AUG H = 3 42 4.24 UTC RMS = 0.18 NO = 5 — FREE DEPTH SOLUTION
06 LAT = 37.042 N ERX = 0.7 ERM = 0.9 AVRM = 1.6 Q = C
LONG = 116.133 W ERY = 0.5 GAP = 156 AVXM = QS = B — SILENT CANYON - YUCCA FLAT
DEPTH = 0.61 KM ERZ = 1.6 NM = QD = D

06	BGB	IPU	3 42 5.95				17	1.6	8.6	259	38	1.71	1.97	-0.21	
06	GLR	IPD	3 42 7.00				13	1.4	14.3	32	38	3.56	3.71	-0.00	
06	LGP	EPD	3 42 8.68				16	1.6	22.2	188	38	4.44	4.19	0.25	
06	EPM	EPU	3 42 9.70						28.7	317	38	4.46	4.60	-0.14	
		ESU	3 42 12.39									8.15	8.04	0.11	
06	BMT	EPDG	3 42 13.41						43.9	306	38	9.17	7.71	1.06	
06	EPR	EP G	3 42 15.30						85.1	81	38	11.06	14.42	-3.36	

AUG H = 9 37 34.49 UTC RMS = 0.16 NO = 13 — FREE DEPTH SOLUTION
06 LAT = 37.253 N ERX = 0.5 ERM = 0.7 AVRM = 2.7 Q = B
LONG = 116.483 W ERY = 0.5 GAP = 75 AVXM = QS = B — SILENT CANYON - NORTH

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LOCAL-[illegible] DATA REPORT

AUG 1980	STA	PHASE	TIME (UTC)	AMP (MUV)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
09 LAT = 36.536 N				ERX =		ERM =		AVFM =	1.6	Q = C					
LONG = 116.587 W				ERY =		GAP = 267		AVXM =		QS = A		LATHROP WELLS			
DEPTH = 1.39 KM				ERZ =		NM =				QD = D					
09	SCM	EPU	2 21 24.37					12	1.3	12.9	20	38	2.47	2.52	-0.05
09	LSM	EPU	2 21 26.38					22	1.9	24.8	25	38	4.48	4.45	0.03
09	JCM	EPU	2 21 28.82					12	1.6	27.6	113	38	6.92	6.91	0.01
09	MCY	EPU	2 21 28.92					20	1.9	40.5	70	38	7.02	7.00	0.01
AUG H = 2 21 40.57 UTC				RMS =	0.05	NO = 5									FREE DEPTH SOLUTION
09 LAT = 36.636 N				ERX =	1.5	ERM =	1.6	AVFM =	1.3	Q = C					
LONG = 116.271 W				ERY =	0.7	GAP = 156		AVXM =		QS = B		LATHROP WELLS			
DEPTH = 9.76 KM				ERZ =	3.8	NM =				QD = D					
09	SCM	EPU	2 21 42.66					9	1.1	6.8	299	143	2.09	2.13	-0.04
09	LSM	EPU	2 21 43.60					15	1.5	13.6	346	123	3.03	2.96	0.07
09	JCM	EPU	2 21 45.17					10	1.2	24.7	142	109	4.60	4.58	0.01
		ESU	2 21 48.63										8.06	8.02	0.03
09	MCY	EPU	2 21 45.63					10	1.2	28.1	88	107	5.06	5.12	-0.06
AUG H = 8 14 29.97 UTC				RMS =	0.32	NO = 8									FREE DEPTH SOLUTION
11 LAT = 37.152 N				ERX =	1.5	ERM =	2.0	AVFM =	1.3	Q = C					
LONG = 117.392 W				ERY =	1.3	GAP = 127		AVXM =		QS = C		MT. JACKSON			
DEPTH = 12.10 KM				ERZ =	6.6	NM =				QD = B					
11	GVN	EPU	8 14 33.70					17	1.7	17.3	165	123	3.73	3.66	0.07
11	GMN	EP—	8 14 34.47					7	0.9	20.2	35	119	4.50	4.08	0.43
		ESU	8 14 37.01										7.04	7.14	-0.09
11	LCM	EPD	8 14 34.46					12	1.4	24.5	292	114	4.6[illegible]	4.70	-0.20
11	MGM	EPU	8 14 36.04					8	1.1	33.4	304	108	6.07	6.06	0.02
		ESD	8 14 40.68										10.83	10.60	0.23
11	SGV	EPU	8 14 36.95					12	1.4	37.2	121	106	6.98	6.64	0.35
11	BPT	EPD	8 14 42.17							77.6	79	98	12.20	13.08	-1.28
AUG H = 8 19 44.69 UTC				RMS =	0.23	NO = 11									FREE DEPTH SOLUTION
11 LAT = 37.115 N				ERX =	1.2	ERM =	1.5	AVFM =	1.2	Q = C					
LONG = 116.306 W				ERY =	0.7	GAP = 149		AVXM =		QS = B		SILENT CANYON - PAHUTE MESA			
DEPTH = 1.56 KM				ERZ =	2.3	NM =				QD = C					
11	BGB	IPU	8 19 47.05					11	1.3	11.0	141	38	2.36	2.17	0.23
11	EPN	EPU	8 19 46.69					2	-0.2	11.1	352	38	2.00	2.19	-0.19
11	BPT	IPU	8 19 50.45					11	1.3	27.5	313	38	5.76	4.86	0.50
		ISD	8 19 54.69										10.20	9.20	0.99
11	COH1	IPU	8 19 49.75					9	1.1	28.3	182	38	5.06	4.98	0.09
		ES	8 19 53.10										8.41	8.71	-0.30
11	COH5	EPD	8 19 49.73							28.3	182	38	5.04	4.98	0.06
11	LCP	EPD	8 19 50.21					17	1.7	31.5	157	38	5.52	5.49	0.02
11	MMM	EP	8 19 52.44					18	1.3	45.7	265	38	7.71	7.81	-0.10
		ESU	8 19 58.26										13.57	13.67	-0.10
11	MCY	EP	8 19 54.64					19	1.9	58.9	149	38	9.95	9.96	-0.01
AUG H = 4 53 13.94 UTC				RMS =	0.17	NO = 19									FREE DEPTH SOLUTION
12 LAT = 36.487 N				ERX =	0.4	ERM =	0.6	AVFM =	2.1	Q = C					
LONG = 116.809 W				ERY =	0.4	GAP = 67		AVXM =		QS = B		FURNACE CREEK			
DEPTH = 0.21 KM				ERZ =	1.1	NM =				QD = C					
12	FMT	IPD	4 53 16.97					40	2.4	17.2	9	38	3.03	3.45	-0.32
12	PGE	EPD	4 53 19.00					32	2.2	27.6	236	38	5.06	5.16	-0.09
12	AFR	IPU	4 53 19.64					17	1.7	31.7	138	38	5.70	5.81	-0.11
12	BRO	IPD	4 53 19.94					26	2.1	34.7	28	38	6.02	6.31	-0.29
12	GHV	IPU	4 53 20.41					19	1.8	35.6	159	38	6.47	6.46	-0.07
12	SDM	EPD4	4 53 22.22					13	1.5	45.7	67	38	8.28	8.09	0.19
12	LSM	EPD	4 53 23.53					26	2.2	55.6	40	39	9.59	9.71	-0.11
12	GSM	EPD	4 53 24.25					30	2.3	59.1	145	38	10.31	10.11	0.21
12	SGV	EPD	4 53 24.42					34	2.4	58.4	340	38	10.48	10.15	0.33
		ESD	4 53 31.62										17.68	17.76	-0.08
12	COH1	EPD	4 53 24.37					31	2.3	60.4	47	38	10.43	10.48	-0.05
12	COH5	EP	4 53 24.37							60.4	47	38	10.43	10.48	-0.05
		FSU2	4 53 32.36										18.42	18.35	0.08
12	JCM	EP	4 53 25.10							63.5	95	38	11.16	10.99	0.18
12	TMU	EPD	4 53 24.96					28	2.2	64.2	303	38	11.02	11.09	-0.07
12	MMM	EPU4	4 53 26.18					31	2.4	65.9	359	38	12.24	11.38	0.87
		ESU	4 53 33.88										19.94	19.91	0.03
12	LCP	EPD	4 53 26.17					20	2.0	70.4	55	38	12.23	12.10	0.13

LOCAL-[illegible] DATA [illegible]

AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
15	QSM	EPU	23 [illegible]9 59.40				27	2.2	57.4	176	94	9.50	9.71	-0.21	
15	LSM	EPU	23 10 1.20				29	2.3	64.5	64	94	11.30	10.86	0.45	
15	NPN	EPD	23 10 1.60				20	2.1	67.1	0	93	11.70	11.28	0.42	
		ISU	23 10 9.62									19.72	19.75	-0.02	
15	GVN	EPU4	23 10 2.70				25	2.2	69.1	327	93	12.80	11.60	1.20	
15	JCN	EPD	23 10 2.19				13	1.6	73.1	94	93	12.29	12.26	0.03	
15	LCP	EP [illegible]	23 10 3.80				23	2.1	78.8	54	93	13.90	13.18	0.72	
15	NOP	EPD	23 10 2.90				16	1.8	79.1	120	93	13.00	13.24	-0.23	
15	MCY	EPD	23 19 5.11				28	2.3	87.8	77	93	15.21	14.65	0.57	
15	APK	EPU	23 10 10.45						121.0	98	92	20.55	20.18	0.37	

AUG M = 17 48 9.1[illegible] UTC RMS = 0.13 NO = 17 — FREE DEPTH SOLUTION
17 LAT = 36.990 N ERZ = 0.6 ERM = 0.9 AVFM = 2.6 Q = D
LONG = 117.536 W ERY = 0.6 GAP = 187 AVXM = QS = C — DRY MOUNTAIN
DEPTH = 0.0[illegible] KM ERZ = 7.0 NM = QD = D

17	GVN	IPU	17 48 12.55				59	2.7	17.3	86	38	3.41	3.50	-0.09
17	LCM	IPD	17 48 14.33				51	2.6	20.9	340	38	5.19	5.38	-0.19
17	GPN	IPD	17 48 16.74				38	2.6	42.3	36	38	7.60	7.57	0.03
17	MGM	EPD	17 48 18.00				51	2.7	50.2	4	38	8.86	8.85	0.01
17	PPK	IPD	17 48 19.07				46	2.7	59.6	326	38	10.33	10.21	0.12
17	NPN	EPU	17 48 20.12				53	2.8	60.7	81	38	10.98	11.21	-0.23
17	MZP	EPD	17 48 22.80				47	2.8	80.0	10	38	13.66	13.70	0.15
17	SVP	EPD	17 48 23.56				43	2.7	83.8	344	38	14.42	14.31	-0.04
17	SCM	EPD	17 48 28.27				22	2.2	113.6	110	38	19.13	19.15	-0.02
17	APR	EP	17 48 28.38				24	2.3	115.5	125	38	19.16	19.46	-0.30
17	LSM	EPD	17 48 28.72				40	2.7	116.1	104	38	19.50	19.56	0.01
17	SSP	EPD	17 48 29.09				35	2.6	117.5	94	38	19.95	19.80	0.15
17	GHV	EPD	17 48 29.33				23	2.3	118.1	139	38	20.19	19.89	0.20
17	LOP	EPD	17 48 29.90				32	2.6	122.9	97	38	20.7[illegible]	20.68	0.08
17	JCN	IPD	17 48 32.65				25	2.4	141.9	115	38	23.51	23.55	-0.04
17	MCY	EPU	17 48 33.26				41	2.9	145.2	195	38	24.12	23.97	0.15
17	NOP	EP	17 48 34.82						156.5	128	38	25.68	25.44	0.24

AUG M = 8 8 42.67 UTC RMS = 0.12 NO = 9 — FREE DEPTH SOLUTION
18 LAT = 37.170 N ERZ = ERM = AVFM = 2.4 Q = C
LONG = 115.198 W ERY = GAP = 131 AVXM = QS = A — ALAMO
DEPTH = 4.01 KM ERZ = NM = QD = D

18	EPR	IPD	8 8 43.50				63	2.7	0.2	141	176	0.83	0.83	0.01
18	PPN	IPD[illegible]	8 8 48.26				45	2.5	29.8	25	95	5.59	5.08	0.51
18	GPR	EPU	8 8 51.75				30	2.3	56.8	299	92	9.08	9.27	-0.19
18	NPN	EPD	8 8 52.47				29	2.3	58.0	23	92	9.80	9.79	0.01
18	GLR	EPU	8 8 55.05				29	2.3	73.7	273	92	12.38	12.35	0.18

AUG M = 8 33 4.44 UTC RMS = 0.17 NO = 9 — FREE DEPTH SOLUTION
19 LAT = 36.910 N ERZ = 1.3 ERM = 1.4 AVFM = 1.5 Q = C
LONG = 115.946 W ERY = 0.7 GAP = 181 AVXM = QS = B — MERCURY
DEPTH = 9.42 KM ERZ = 4.3 NM = QD = D

19	LCP	EPD	8 33 7.67				18	1.5	17.3	249	116	3.23	3.46	-0.23
		ES	8 33 10.50									6.06	6.05	0.01
19	SSP	EPU	8 33 8.47				9	1.1	20.8	275	111	4.03	3.98	0.05
19	DGB	EPU	8 33 9.09				19	1.8	25.8	303	107	4.65	4.74	-0.08
19	MCY	IPU	8 33 9.32				13	1.5	27.6	176	106	4.88	5.02	-0.14
19	CCM1	EP	8 33 10.90				15	1.6	30.1	260	105	6.46	5.41	1.05
19	LSM	EP	8 33 10.39				12	1.4	31.8	233	104	5.95	5.68	0.27
		ESD	8 33 14.[illegible]									9.94	9.94	0.00
19	GLR	EPD	8 33 10.01				17	1.7	32.3	355	104	5.57	5.75	-0.04

AUG M = 11 58 16.22 UTC RMS = 0.09 NO = 17 — FREE DEPTH SOLUTION
20 LAT = 36.711 N ERZ = 0.2 ERM = 0.4 AVFM = 2.0 Q = B
LONG = 115.694 W ERY = 0.3 GAP = 132 AVXM = QS = A — MERCURY
DEPTH = 7.81 KM ERZ = 1.6 NM = QD = C

20	SPRG	IPU	11 58 19.83				33	2.2	18.5	264	110	3.61	3.53	0.08
20	MCY	IPU	11 58 21.86				24	2.0	32.5	260	101	5.64	5.73	-0.10
20	SHHG	EPD	11 58 24.10				23	2.0	46.2	120	98	7.88	7.93	-0.06
20	LCP	EPU	11 58 25.20				17	1.8	52.8	284	97	8.98	8.99	-0.02
20	JCN	EPD	11 58 25.51				12	1.5	53.9	234	97	9.29	9.17	0.12
		ESU	11 58 32.30									16.08	16.08	0.00
20	LSM	EPU	11 58 26.34				19	1.9	59.8	273	96	10.12	10.13	-0.01
20	SSP	IPD	11 58 26.46				18	1.8	59.8	293	96	10.22	10.13	0.09
		ISD	11 58 34.50									18.28	17.73	0.55

9 0 8 1 4 0 2 4 2

[illegible]
LOCAL-EVENT DATA REPORT

AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	QUM	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TURS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
DEPTH = 2.98 KM			ERZ = 7.3 KM =							UD = C					
23	SGV	IPU	3 37 54.03					44	2.5	16.2	184	95	2.98	2.99	-0.01
23	MPN	IPU	3 37 58.28					35	2.3	18.5	106	98	3.19	3.37	-0.18
23	GPN	EPU	3 37 56.06					30	2.2	28.8	312	93	5.01	5.05	-0.03
23	GVN	EPD	3 37 56.62					32	2.3	32.0	244	92	5.57	5.56	0.02
23	GPT	EPUa	3 37 57.00					42	2.5	46.4	68	92	5.95	7.91	-2.36
23	BRO	EPD	3 37 59.95					24	2.1	53.4	139	91	8.90	9.05	-0.15
23	CDHS	EPU	3 38 2.62					23	2.1	69.8	115	98	11.57	11.57	-0.00
23	CDH1	EPD	3 38 2.55					30	2.3	69.8	115	98	11.50	11.57	-0.07
23	BGB	EPU	3 38 3.03					30	2.3	71.0	94	98	11.98	11.89	0.10
23	SSP	IPU	3 38 3.75					23	2.1	74.6	107	98	12.70	12.49	0.22
		ESD	3 38 12.98										21.85	21.85	0.00
23	LSM	EPU	3 38 4.49					24	2.2	79.2	123	98	13.44	13.23	0.21
23	SDM	EPD	3 38 4.49					33	2.4	80.8	131	95	13.44	13.48	-0.04
23	LOP	EP 3	3 38 5.12							81.5	112	98	14.07	13.61	0.46
23	MCY	EPD	3 38 9.05					26	2.3	107.3	119	98	18.00	17.81	0.20
23	NOP	EPDa	3 38 14.38							135.2	145	53	23.33	22.18	1.15

AUG H = 10 34 23.72 UTC RMS = 0.14 NO = 6 — FREE DEPTH SOLUTION
24 LAT = 36.769 N ERX = 1.2 ERM = 1.8 AVFM = 0.9 Q = C
LONG = 116.023 W ERY = 1.3 GAP = 209 AVXM = QS = B — LATHROP WELLS
DEPTH = 9.69 KM ERZ = 3.1 KM = QD = B

24	MCY	EPD	10 34 26.54					8	1.0	13.1	155	123	2.82	2.88	-0.05
		ISU	10 34 28.79										5.07	5.03	0.04
24	LOP	EPD	10 34 26.95					6	0.7	16.0	306	118	3.23	3.28	-0.05
		ESU	10 34 29.45										5.73	5.78	-0.01
24	LSM	EP	10 34 28.47					9	1.1	22.5	261	111	4.75	4.24	0.51
		ESU	10 34 31.01										7.29	7.42	-0.13

AUG H = 11 40 9.15 UTC RMS = 0.33 NO = 8 — FIXED DEPTH SOLUTION
24 LAT = 36.880 N ERX = 1.8 ERM = 2.2 AVFM = 1.0 Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.224 W ERY = 1.3 GAP = 115 AVXM = QS = C — LATHROP WELLS
DEPTH = 5.00 KM ERZ = 4.7 KM = QD = B

24	SSP	EP	11 40 10.69					7	0.8	5.0	5	129	1.54	1.36	0.18
24	LOP	EPD	11 40 10.15					8	1.0	5.8	120	125	1.00	1.46	-0.46
		ESD	11 40 11.85										2.70	2.56	0.14
24	CDH1	IPU	11 40 11.26					11	1.2	8.7	255	114	2.11	1.87	0.24
24	CDHS	EP	11 40 11.30							8.7	255	114	2.15	1.47	0.28
24	LSM	EP	11 40 11.95					7	0.9	16.2	195	102	2.80	3.05	-0.25
24	SGB	EP	11 40 12.10					11	1.3	17.5	359	101	2.95	3.25	-0.25
24	MCY	EP	11 40 16.29							33.6	136	96	7.14	5.85	1.29

AUG H = 23 7 2.35 UTC RMS = 0.20 NO = 11 — FREE DEPTH SOLUTION
24 LAT = 36.629 N ERX = 0.9 ERM = 1.3 AVFM = 1.7 Q = C
LONG = 115.997 W ERY = 0.9 GAP = 138 AVXM = QS = B — MERCURY
DEPTH = 9.01 KM ERZ = 2.4 KM = QD = C

24	MCY	IPD	23 7 4.19					25	1.9	4.8	40	150	1.84	1.84	0.00
24	SPRG	EPU	23 7 5.83					18	1.7	18.2	67	113	3.48	3.56	-0.08
24	JON	IPD	23 7 6.74					18	1.2	23.0	204	109	4.39	4.29	0.10
24	LSM	IPU	23 7 7.20					23	1.9	27.5	296	106	4.65	4.98	-0.13
24	LOP	IPU	23 7 7.56					12	1.4	29.3	329	105	5.21	5.27	-0.05
24	SDM	EPD	23 7 7.74					9	1.1	30.6	273	104	5.39	5.48	-0.08
24	CDH1	IPU	23 7 8.90					19	1.6	38.5	312	101	6.55	6.73	-0.17
24	CDHS	EP	23 7 8.83					13	1.5	38.5	312	101	6.48	6.73	-0.24
24	GPR	EPU	23 7 16.2.					15	1.8	88.8	14	95	13.85	13.54	0.31
24	MPN	EPD	23 7 17.55					17	1.9	88.8	304	95	15.20	14.83	0.37
24	SGV	EPU	23 7 19.59					19	2.0	100.4	293	94	17.24	16.72	3.53

AUG H = 8 7 48.75 UTC RMS = 0.08 NO = 16 — FREE DEPTH SOLUTION
25 LAT = 37.312 N ERX = 0.2 ERM = 0.3 AVFM = 2.0 Q = B
LONG = 116.437 W ERY = 0.2 GAP = 93 AVXM = QS = A — SILENT CANYON - NORTH
DEPTH = 10.44 KM ERZ = 1.5 KM = QD = A

25	RMT	IPUa	8 7 52.11					26	2.0	9.1	250	136	3.36	2.45	0.50
25	EPN	IPU	8 7 51.96					33	2.2	10.8	137	122	3.21	3.18	0.03
25	HLT	EPD	8 7 54.67					12	1.4	31.5	54	166	5.72	5.68	0.04
25	BGB	EPD	8 7 55.09					33	2.3	35.7	149	104	6.34	6.33	0.06
25	GLN	EPUa	8 7 55.15					25	2.1	39.3	109	103	6.40	6.90	-0.35
25	MPN	EPD	8 7 56.07					22	2.0	42.4	233	102	7.32	7.40	-0.08
25	CTS	IPU	8 7 56.49					12	1.4	44.4	325	101	7.74	7.72	0.02

9 0 8 1 4 0 2 4 3

AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUP	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
AUG H = 13 32 25.71 UTC				RMS = 0.09	NO = 12										FREE DEPTH SOLUTION
25 LAT = 37.311 N				ERX = 0.3	ERH = 0.6			AVFM =	1.8	Q = B					
LONG = 116.435 W				ERY = 0.3	GAP = 93			AVXM =		QS = A					SILENT CANYON - NORTH
DEPTH = 14.59 KM				ERZ = 1.1	NM =					QD = A					
25	BPT	EPU	13 32 29.31				21	1.8	9.3	251	146	3.60	3.80	0.20	
25	EPN	IPU	13 32 29.16				29	2.1	14.6	137	133	3.45	3.56	-0.11	
25	BLT	EPD	13 32 31.60						31.8	58	113	5.89	5.88	0.00	
25	BGB	EPU	13 32 32.00				19	1.8	35.5	149	111	6.29	6.50	-0.16	
25	GLR	EPD	13 32 32.50				12	1.8	39.8	108	109	6.87	7.06	-0.03	
25	NPN	IPD	13 32 33.29				15	1.6	42.5	233	107	7.58	7.59	-0.01	
25	CTS	IPU	13 32 33.66						44.7	325	107	7.95	7.92	0.03	
		ESD	13 32 39.46									13.75	13.86	-0.11	
25	SSP	EPU2	13 32 36.71				17	1.8	46.9	156	106	9.00	8.28	0.72	
25	LCP	EP	13 32 35.38				18	1.8	56.0	155	103	9.67	9.70	-0.03	
25	GMR	EPD	13 32 35.95				16	1.7	58.9	98	103	10.24	10.16	0.08	
25	SGV	EPD	13 32 36.82				18	1.9	64.5	235	102	11.11	11.05	0.06	
25	HCY	EP 4	13 32 40.80				25	2.2	83.4	150	99	15.09	14.08	1.00	
25	GVN	EPD	13 32 40.50				21	2.1	87.6	207	98	14.79	14.75	0.04	
AUG H = 15 12 22.99 UTC				RMS = 0.08	NO = 13										FREE DEPTH SOLUTION
25 LAT = 37.309 N				ERX = 0.2	ERH = 0.3			AVFM =	1.7	Q = B					
LONG = 116.439 W				ERY = 0.2	GAP = 93			AVXM =		QS = A					SILENT CANYON - NORTH
DEPTH = 10.29 KM				ERZ = 1.4	NM =					QD = B					
25	BPT	EPU	15 12 25.50				22	1.8	8.9	251	137	3.41	2.42	0.68	
25	EPN	IPU	15 12 25.25				29	2.1	14.7	136	122	3.16	3.14	0.02	
25	BLT	EPU	15 12 27.80				18	1.8	31.7	58	106	5.71	5.71	0.01	
25	BGB	EPU	15 12 28.15				20	1.9	35.5	148	106	6.06	6.29	-0.18	
25	GLR	EPD	15 12 28.80				14	1.6	39.3	108	103	6.71	6.89	-0.03	
25	NPN	EPD	15 12 29.48				17	1.7	42.2	233	102	7.39	7.35	0.04	VERY E
25	CTS	IPU	15 12 29.65				7	1.8	46.6	325	101	7.76	7.75	0.02	
		ESD	15 12 35.59									13.58	13.56	-0.05	
25	LCP	EP 3	15 12 31.95				17	1.8	56.8	154	99	9.86	9.56	0.30	
25	GMR	EPD	15 12 32.22				14	1.6	59.2	87	99	10.13	10.09	0.05	
25	BRO	EPU	15 12 32.74				29	2.3	62.9	195	98	10.65	10.68	-0.02	
25	SGV	EPD	15 12 33.03						64.1	235	98	10.94	10.87	0.07	
		ESD	15 12 41.10									19.01	19.03	-0.02	
25	APK	EPU4	15 12 41.12				16	2.0	134.2	145	53	19.03	21.34	-2.31	
AUG H = 1 0 19.17 UTC				RMS = 0.12	NO = 10										FREE DEPTH SOLUTION
26 LAT = 37.307 N				ERX = 0.4	ERH = 0.6			AVFM =	1.7	Q = B					
LONG = 116.435 W				ERY = 0.4	GAP = 92			AVXM =		QS = A					SILENT CANYON - NORTH
DEPTH = 13.58 KM				ERZ = 1.8	NM =					QD = B					
26	BPT	EPU	1 0 13.65						9.1	253	145	3.48	2.85	0.23	
26	EPN	IPU	1 0 13.52				29	2.1	14.3	136	132	3.35	3.42	-0.07	
26	BLT	EPD	1 0 16.06				8	1.8	31.7	57	111	5.89	5.86	0.02	
26	BGB	EPU	1 0 16.65						35.1	148	109	6.49	6.39	0.14	
26	GLR	EPU	1 0 16.84						38.9	108	108	6.67	6.98	-0.16	
26	NPN	EPD	1 0 17.68						42.2	234	106	7.51	7.50	0.01	
26	CTS	IPU	1 0 18.17				7	1.8	45.8	325	105	8.00	7.93	0.07	
		ESD	1 0 23.98									13.73	13.87	-0.14	
26	SSP	EP 4	1 0 20.80				16	1.7	46.6	156	105	10.63	8.17	2.45	
26	LCP	EP 4	1 0 21.99				16	1.7	55.6	155	102	11.73	9.60	2.12	
26	SGV	EPD	1 0 21.26				19	1.9	64.2	236	101	11.09	10.97	0.11	
		ESU	1 0 29.12									18.95	19.20	-0.26	
26	HCY	EP 4	1 0 25.21				24	2.2	83.1	150	98	15.04	14.00	1.04	
AUG H = 1 28 56.47 UTC				RMS = 0.11	NO = 12										FREE DEPTH SOLUTION
26 LAT = 37.309 N				ERX = 0.4	ERH = 0.5			AVFM =	1.9	Q = B					
LONG = 116.432 W				ERY = 0.3	GAP = 93			AVXM =		QS = A					SILENT CANYON - NORTH
DEPTH = 15.23 KM				ERZ = 1.5	NM =					QD = B					
26	BPT	EPU	1 29 0.15				26	2.0	9.8	252	147	3.68	3.10	0.17	VERY E
26	EPN	IPU	1 29 0.01				33	2.2	14.3	138	135	3.54	3.60	-0.07	
26	BLT	EPD	1 29 2.45				12	1.9	31.3	57	114	5.98	5.91	0.07	
26	BGB	EPU	1 29 2.80						35.2	149	112	6.33	6.49	-0.12	
26	GLR	EPU	1 29 3.28						38.7	108	110	6.61	7.03	-0.08	
26	NPN	IPD	1 29 4.11				23	2.0	42.6	233	108	7.64	7.63	0.00	
26	CTS	IPU	1 29 4.53				12	1.6	46.9	325	107	8.04	7.99	0.06	
		ESD	1 29 10.30									13.81	13.99	-0.16	
26	SSP	EPU	1 29 4.47				22	2.0	46.7	156	107	8.90	8.27	-0.27	
26	LCP	EPD	1 29 6.25				21	2.0	55.7	155	104	9.78	9.68	0.09	
26	BRU	EPD	1 29 7.32						63.1	196	102	10.65	10.86	0.00	
26	SGV	EPD	1 29 7.67				19	1.9	64.4	236	102	11.29	11.09	0.11	

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LOCAL-EVENT DATA REPORT

AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
28	LOP	EPU	17 12 31.30				28	1.8	15.4	292	92	2.77	2.86	-0.09	
28	MCY	EPU	17 12 31.24				25	2.0	16.0	165	92	2.71	2.96	-0.25	
28	LSM	EP	17 12 32.81				24	2.0	24.5	254	90	4.28	4.34	-0.06	
28	BGB	EPU	17 12 34.39				18	1.8	32.8	323	90	5.86	5.68	0.23	
28	SDM	EP	17 12 34.60						34.2	248	90	6.07	5.91	0.16	
28	JCM	EPU	17 12 35.82				8	1.1	41.0	192	90	7.29	7.02	0.27	
28	BRO	EPUe	17 12 45.50				7	1.0	55.3	266	90	16.97	9.34	7.63	
28	GPM	EPU	17 12 39.29				16	1.8	62.8	20	90	10.76	10.56	0.20	
28	NPN	EPU	17 12 41.30				12	1.6	78.4	293	90	12.77	13.13	-0.36	
28	SMAG	EPU	17 12 42.39				8	1.2	83.0	113	90	13.86	13.85	0.05	

AUG M = 5 1 30.09 UTC RMS = 0.11 NO = 17 — FREE DEPTH SOLUTION
29 LAT = 36.978 N ERX = 0.2 ERM = 0.4 AVFM = 2.1 Q = C
LONG = 116.730 W ERY = 0.4 GAP = 89 AVXM = QS = B — CHLORIDE CLIFF
DEPTH = 6.00 KM ERZ = 2.6 NM = QD = C

29	NPN	IPU	5 1 32.74				32	2.2	13.8	326	109	2.65	2.72	-0.07	
29	BRO	EPU	5 1 34.60				23	1.9	25.7	159	100	4.51	4.59	-0.07	
29	SGV	EPU	5 1 34.90				28	2.1	26.9	271	100	4.81	4.78	0.03	
29	EPN	IPD	5 1 37.82				29	2.2	44.6	54	96	7.73	7.65	0.09	
29	BGB	EPD	5 1 37.85				32	2.3	45.2	82	96	7.76	7.74	0.07	
29	SSP	IPD	5 1 38.07				34	2.4	45.9	97	96	7.98	7.86	0.13	
29	LSM	IPD	5 1 38.34				30	2.4	48.7	123	95	8.25	8.31	-0.05	
29	SDM	IPD	5 1 38.69				28	1.9	50.9	137	95	8.60	8.65	-0.05	
29	LOP	EPU	5 1 39.85				27	2.2	52.0	105	95	8.96	8.84	0.13	
29	GVM	EPU	5 1 39.33				25	2.1	58.6	273	95	9.25	9.25	0.00	
29	GPM	EPU	5 1 39.87				16	1.7	59.1	307	94	9.78	9.99	-0.20	
29	MCA	EPU	5 1 40.58				18	1.9	61.3	233	94	10.41	10.38	0.07	
29	GLR	EPDe	5 1 40.69				19	1.9	67.3	69	94	10.60	11.42	-0.67	
29	MCY	IPU	5 1 42.91				31	2.4	77.0	117	93	12.82	12.90	-0.07	
29	JCM	EPD	5 1 43.56				13	1.6	81.9	137	93	13.47	13.69	-0.22	
29	LCM	EP	5 1 44.75				25	2.2	86.4	289	93	14.66	14.41	0.25	
29	GPR	EPU	5 1 45.61				24	2.2	93.9	65	93	15.52	15.63	-0.11	
29	MZP	EPD	5 1 46.25				22	2.2	98.9	324	93	16.16	16.05	-0.10	

AUG M = 5 54 32.24 UTC RMS = 0.06 NO = 5 — FREE DEPTH SOLUTION
29 LAT = 36.835 N ERX = 1.3 ERM = 1.5 AVFM = 1.2 Q = C
LONG = 115.965 W ERY = 0.6 GAP = 218 AVXM = QS = B — MERCURY
DEPTH = 6.82 KM ERZ = 4.2 NM = QD = D

29	CPX	EPD	5 54 34.96				10	1.2	13.3	321	113	2.72	2.69	0.03	
29	LCP	EPD	5 54 35.59				7	0.9	18.2	277	107	3.35	3.44	-0.09	
29	MCY	IPD	5 54 35.85				11	1.3	19.3	179	106	3.61	3.60	0.01	
		ESU	5 54 38.55									6.31	6.30	0.01	
29	LSM	EP	5 54 37.53				11	1.3	29.4	249	100	5.29	5.21	0.08	

AUG M = 20 48 3.44 UTC RMS = 0.19 NO = 10 — FREE DEPTH SOLUTION
29 LAT = 36.846 N ERX = 2.3 ERM = 3.0 AVFM = 2.8 Q = D
LONG = 117.797 W ERY = 1.9 GAP = 262 AVXM = QS = C — DARWIN
DEPTH = 0.79 KM ERZ = 8.3 NM = QD = D

29	PGE	IPU	20 48 14.28				49	2.7	64.2	64	38	10.84	10.98	-0.14	
29	MCA	EPUe	20 48 14.30				49	2.8	72.4	32	38	10.46	12.31	-1.85	
29	QSM	EPU	20 48 16.45				46	2.7	77.0	101	38	13.01	13.05	-0.04	
29	TPO	EPD	20 48 17.30				44	2.7	83.3	19	38	13.96	14.09	-0.23	
29	FPT	EPD	20 48 20.50				43	2.8	102.9	54	38	17.06	17.27	-0.12	
29	GVN	IPD	20 48 21.35				50	2.9	105.8	18	38	17.91	17.75	0.16	
29	SGV	EPU	20 48 23.04				52	3.0	115.5	32	38	19.60	19.32	0.28	
29	BRO	EPD	20 48 23.80				42	2.8	122.1	53	38	20.36	20.40	-0.04	
29	LCM	EPU	20 48 24.43				45	2.9	126.7	2	38	20.99	21.13	-0.15	
29	NPN	EPU	20 48 26.25				44	2.9	135.3	36	30	22.81	22.53	0.28	
29	CDMI	EPD	20 48 28.36				46	3.0	150.7	56	30	24.92	24.54	0.38	
29	BGB	EPDe	20 48 31.12				48	3.1	168.8	52	30	27.68	26.08	0.65	

AUG M = 19 18 6.73 UTC RMS = 0.08 NO = 6 — FREE DEPTH SOLUTION
30 LAT = 37.123 N ERX = 0.7 ERM = 1.0 AVFM = 2.3 Q = C
LONG = 117.417 W ERY = 0.8 GAP = 148 AVXM = QS = B — MT. JACKSON
DEPTH = 8.00 KM ERZ = 4.0 NM = QD = C

30	GVN	IPU	19 18 9.95				35	2.3	15.0	154	117	3.12	3.08	0.04	
30	LCM	EPU	19 18 11.10				32	2.2	23.9	301	108	4.37	4.42	-0.05	
30	GPM	EPD	19 18 11.10				34	2.3	24.1	35	107	4.37	4.46	-0.09	
30	MGM	EPU	19 18 13.16				35	2.3	34.0	309	102	6.43	6.33	0.10	
30	SGV	IPU	19 18 13.42				38	2.4	37.6	115	101	6.69	6.59	0.10	

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LOCAL-EVENT DATA REPORT

SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	RMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
11	CDHS	EPD	15 0 3.30						18.3	230	38	3.38	3.65	-0.27	
11	LSM	EPU	15 0 4.87				87	3.1	27.1	281	38	4.99	5.09	-0.10	
11	GLR	EPU	15 0 5.03				73	3.0	28.9	26	38	5.11	5.36	-0.10	
11	EPR	EPU	15 0 5.65				92	3.2	31.0	332	38	5.73	5.72	0.01	
11	SDH	EPU	15 0 6.74				47	2.6	39.0	204	38	6.78	7.02	-0.24	
		ESU	15 0 12.08									******	******	-0.21	
11	SPRG	EPD4	15 0 8.35				52	2.7	43.6	134	38	8.43	7.78	0.65	
11	BMT	EPU4	15 0 9.83				45	2.6	48.3	317	38	9.91	8.53	0.98	
11	GMR	EPU	15 0 9.34				40	2.5	53.5	40	38	9.42	9.37	0.04	
11	BLT	EPU2	15 0 9.98				41	2.5	54.9	2	38	9.98	9.61	0.37	
		ESU	15 0 16.87									******	******	0.13	
11	JCN	EPU	15 0 10.46				41	2.6	58.7	175	38	10.54	10.23	0.31	
11	NPN	EPU	15 0 10.65				40	2.5	59.8	282	38	10.73	10.41	0.32	
11	SGV	EPU	15 0 13.37						77.5	271	38	13.65	13.29	0.16	
		ESU4	15 0 20.62									******	******	-2.56	
11	CTB	EPU	15 0 15.42				27	2.3	89.9	326	38	15.50	15.30	0.20	
11	OCS	EPU4	15 0 16.80				30	2.4	91.5	14	38	16.88	15.56	1.32	
		ESU	15 0 26.95									******	******	-0.28	
11	GVN	EPU	15 0 18.03						105.2	272	38	18.16	17.79	0.37	
		ESU	15 0 31.30									******	******	0.25	
11	PRN	EPU4	15 0 19.88				45	2.8	110.1	64	38	19.68	18.59	1.29	
11	NTI	EPU4	15 0 17.60				36	2.6	111.4	45	38	17.68	19.80	-1.52	
11	TPO	EPD4	15 0 19.68				41	2.7	112.5	261	38	19.76	18.98	0.78	

SEP H = 20 58 3.06 UTC RMS = 0.38 NO = 7 — FREE DEPTH SOLUTION
11 LAT = 36.549 N ERX = 2.4 ERM = 2.7 AVFM = 1.0 Q = C
LONG = 116.138 W ERY = 1.3 GAP = 143 AVXM = QS = C — LATHROP WELLS
DEPTH = 9.63 KM ERZ = 9.7 NM = QD = C

11	JCN	IPD	20 58 6.45			18	1.7	16.8	169	117	3.39	3.40	-0.01	
11	SDH	IPU4	20 58 7.94			17	1.7	19.9	289	114	4.68	3.71	1.17	
11	LSM	EPU	20 58 7.38			29	2.1	20.5	324	112	4.32	3.94	0.38	
11	LCP	IPD	20 58 7.71			25	2.0	24.5	355	106	4.65	5.33	-0.68	
11	SPRG	IPU	20 58 8.84			13	1.5	31.6	68	105	5.78	5.66	0.12	
11	CDHI	EPD	20 58 9.06			17	1.7	34.1	332	104	6.00	6.05	-0.05	
11	SSP	EPU3	20 58 8.92			20	1.9	38.0	349	102	5.86	6.66	-0.80	
11	HCP	EPD	20 58 11.89			23	2.0	51.2	181	99	8.79	8.77	0.02	

SEP H = 22 19 6.33 UTC RMS = 0.11 NO = 10 — FREE DEPTH SOLUTION
11 LAT = 36.631 N ERX = 0.5 ERM = 0.6 AVFM = 2.1 Q = B
LONG = 116.340 W ERY = 0.4 GAP = 103 AVXM = QS = A — LATHROP WELLS
DEPTH = 5.99 KM ERZ = 1.0 NM = QD = B

11	SDH	IPD	22 19 7.44			27	2.0	1.6	5	163	1.11	1.18	-0.08	
11	LSM	IPD	22 19 9.06			52	2.6	13.4	27	109	2.73	2.66	0.07	
11	CDHI	IPU	22 19 10.95			25	2.0	25.5	4	100	4.62	4.56	0.06	
11	CDHS	EPD	22 19 11.00			22	1.9	25.5	4	100	4.67	4.56	0.11	
11	APR	EPD	22 19 11.38			27	2.1	28.6	205	99	5.05	5.05	-0.00	
11	LCP	EPD	22 19 11.13			39	2.4	29.2	32	99	4.80	5.15	-0.35	
11	BPD	EPU	22 19 11.50			22	1.9	29.4	308	99	5.17	5.18	-0.02	
11	JCN	IPU	22 19 11.62			26	2.1	30.0	135	99	5.29	5.28	0.00	
11	SSP	EPD4	22 19 11.64			39	2.4	34.4	18	97	5.31	5.99	-0.68	
11	FMT	EPU	22 19 12.00			25	2.1	39.3	271	96	6.67	6.78	-0.01	
11	BGB	EPD3	22 19 14.45			20	1.9	46.2	13	95	8.12	7.90	0.26	

SEP H = 2 21 33.64 UTC RMS = 0.09 NO = 15 — FREE DEPTH SOLUTION
12 LAT = 36.741 N ERX = 0.2 ERM = 0.3 AVFM = 3.0 Q = C
LONG = 115.433 W ERY = 0.1 GAP = 170 AVXM = QS = C — HAYFORD PEAK
DEPTH = 0.30 KM ERZ = 5.7 NM = QD = C

12	APK	EPU	2 21 42.15			40	2.5	48.5	195	38	8.51	8.52	-0.02	
12	EPR	IPD	2 21 42.81			78	3.1	52.3	25	38	9.17	9.14	0.03	
12	LCP	EPD	2 21 45.15			85	3.2	66.7	281	38	11.51	11.49	0.02	
12	JCN	EPU	2 21 45.35			56	2.9	69.6	291	38	11.71	11.80	-0.09	
12	GMR	EPD	2 21 45.90			69	3.1	72.3	335	38	12.24	12.40	-0.16	
12	GLR	EPU	2 21 45.95			57	2.9	72.7	314	38	12.31	12.47	-0.01	
12	SSP	IPU4	2 21 47.00			87	3.3	73.0	246	38	13.36	12.51	0.85	
12	LSM	EPU	2 21 46.58			90	3.3	74.9	270	38	12.46	12.43	0.03	
12	BGB	EPD	2 21 46.66			58	2.9	78.1	295	38	13.22	13.36	-0.07	
12	CDHI	EPU	2 21 47.38			45	2.7	80.0	240	38	13.66	13.65	0.01	
12	CDHI	EPU	2 21 47.37					80.0	240	38	13.68	13.65	0.03	
12	CDHS	EPU	2 21 47.38					80.0	240	38	13.66	13.65	0.01	
12	PRN	EPD	2 21 47.50					81.4	25	38	13.88	13.87	-0.02	
12	SDH	EPD	2 21 47.75			56	2.9	81.6	261	38	14.11	13.90	0.20	
12	NPN	EPD4	2 21 53.73			64	3.1	110.3	24	38	20.09	18.58	1.51	
12	DLN	EPD4	2 21 56.10			36	2.6	110.1	33	38	20.46	19.19	1.27	

SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	IOMS (SEC)	TCAL (SEC)	MFS (SEC)	REMARKS

SEP H = 14 58 18.67 UTC RMS = 0.21 NO = 11 — FREE DEPTH SOLUTION
13 LAT = 37.162 N ERX = 0.7 ERH = 1.0 AVFM = 2.6 Q = C
LONG = 115.400 W ERY = 0.8 GAP = 128 AVXM = GS = B — ALAMO
DEPTH = 0.07 KM ERZ = 1.9 NM = OD = C

13	EPR	IPU	14 58 22.95			58	2.6	22.5	48	34	4.28	4.35	-0.07	
13	GMN	EPU4	14 58 28.41			29	2.2	35.1	303	38	4.74	4.39	3.35	
13	PRN	IPU	14 58 26.65			78	3.0	44.0	52	38	7.98	7.85	0.13	
13	TPU	EPD	14 58 27.50			49	2.7	52.6	339	38	8.83	9.24	-0.41	
13	NPN	IPU	14 58 30.08			49	2.8	70.4	39	38	12.21	12.13	0.08	
13	EPN	EPD	14 58 32.16			38	2.6	78.7	274	38	13.49	13.48	0.01	
13	DLM	EPU4	14 58 30.40			36	2.5	79.3	52	34	12.13	13.58	-1.45	
13	GCS	EPU	14 58 32.00			29	2.3	79.4	326	38	13.33	13.59	-0.27	
		ESU	14 58 42.78								24.03	23.79	0.24	
13	CDMS	EPD4	14 58 34.33			24	2.2	85.8	287	38	15.66	14.51	1.15	
		ESU	14 58 43.85								25.38	25.38	-0.21	
13	SRG	EPD	14 58 33.73			55	2.9	86.5	22	38	15.06	14.75	0.31	
13	SDM	IPD	14 58 35.55			37	2.6	98.8	234	34	16.48	16.70	0.18	
13	JCN	EPU2	14 58 36.22			33	2.5	99.6	216	38	17.55	16.88	0.66	
13	CTS	EPD4	14 58 40.90			29	2.5	125.6	295	38	22.23	21.11	1.12	

SEP H = 14 19 17.87 UTC RMS = 0.09 NO = 7 — FREE DEPTH SOLUTION
14 LAT = 36.829 N ERX = 1.1 ERH = 1.1 AVFM = 1.9 Q = C
LONG = 115.954 W ERY = 0.3 GAP = 133 AVXM = OS = C — MERCURY
DEPTH = 9.42 KM ERZ = 6.7 NM = OD = C

14	LCP	EPU	14 19 21.60			31	2.2	19.4	280	113	3.73	3.76	-0.03	
14	LSM	EPU4	14 19 23.72			35	2.3	30.0	251	105	5.85	5.39	0.45	
14	CDM1	EPU	14 19 23.70					32.7	277	108	5.83	5.82	0.00	
		ESU2	14 19 28.00								10.13	10.19	-0.07	
14	BGB	EPU	14 19 24.09			12	1.4	34.0	314	103	6.22	6.02	0.24	
		ESU	14 19 28.30								10.43	10.45	-0.02	
14	JCN	EPU4	14 19 26.75			15	1.6	44.8	197	100	8.88	7.75	1.13	
14	GPR	EPU	14 19 27.78			15	1.7	50.7	16	98	9.91	9.98	-0.08	
14	APK	IPD	14 19 29.01			21	2.0	65.6	149	97	11.14	11.09	0.04	

SEP H = 4 48 40.51 UTC RMS = 0.60 NO = 13 — FREE DEPTH SOLUTION
17 LAT = 38.046 N ERX = 2.7 ERH = 6.3 AVFM = 2.4 Q = D
LONG = 116.222 W ERY = 5.7 GAP = 236 AVXM = OS = D — WARM SPRINGS
DEPTH = 0.34 KM ERZ = 5.8 NM = OD = D

17	KPNA	IPD	4 48 46.89			33	2.3	35.7	203	38	6.38	6.43	-0.05	
17	CCS	IPU	4 48 47.51			22	2.0	40.9	139	38	7.00	7.28	-0.28	
17	CTS	IPD	4 48 50.62			28	2.1	63.2	225	38	10.11	10.91	-0.80	
17	BLT	EPU	4 48 51.20			27	2.2	65.3	173	38	10.69	11.25	-0.56	
17	TPU	EPD	4 48 52.20			38	2.3	70.3	134	38	11.69	12.06	-0.37	
17	BMT	EPU	4 48 56.21			44	2.7	89.0	198	38	15.70	15.50	0.20	
		ESU	4 49 8.13								27.62	27.12	0.50	
17	GLR	IPD	4 48 57.51			27	2.3	95.7	169	38	17.00	16.19	0.96	
17	SPG	EPU	4 48 58.78			40	2.7	103.0	100	38	18.27	17.37	0.90	
17	BGB	EPU	4 48 59.89			32	2.5	111.9	100	38	19.38	18.82	0.61	
		ESD	4 49 12.15								31.64	32.85	-1.21	
17	NPN	EPU	4 49 0.40			37	2.7	119.3	206	38	19.89	20.04	-0.15	
		ESU	4 49 16.71								36.20	35.07	1.13	

SEP H = 11 13 46.73 UTC RMS = 0.09 NO = 8 — FREE DEPTH SOLUTION
18 LAT = 36.977 N ERX = 1.9 ERH = 2.2 AVFM = 1.8 Q = D
LONG = 116.579 W ERY = 1.1 GAP = 233 AVXM = OS = C — CHLORIDE CLIFF
DEPTH = 6.68 KM ERZ = 10.1 NM = OD = D

18	CCM1	IPD	11 13 51.35			15	1.6	26.7	119	101	4.62	4.77	-0.15	
18	CDMS	EPD	11 13 51.45					26.7	119	101	4.72	4.77	-0.05	
		ESD4	11 13 53.05								6.32	8.35	-2.03	
18	OGB	EPU	11 13 52.55			23	2.0	32.0	78	99	5.82	5.62	0.25	
18	BMT	IPU	11 13 53.10			8	1.1	34.2	7	99	6.37	5.98	-0.00	
		ISU4	11 13 55.85								9.12	11.16	-2.04	
18	EPN	EPD4	11 13 54.70			24	2.0	34.7	41	98	7.97	6.06	1.91	
18	LSM	EPU	11 13 53.50			22	1.9	38.1	134	98	6.77	6.60	0.17	
		ISU4	11 13 57.37								10.34	11.55	-1.20	
18	LCP	IPU	11 13 53.50			25	2.1	39.2	110	97	6.77	6.77	0.00	
18	SCM	EPD4	11 13 57.45			20	1.9	42.6	150	97	10.72	7.34	3.39	
18	CPX	EPD	11 13 54.55			20	1.9	46.7	97	96	7.82	7.98	-0.16	
18	MCY	EPD	11 13 57.60			23	2.1	65.3	172	98	11.07	11.00	0.08	

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SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SMAG	QUA	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
22	BCS	EPD4	19 7 12.22	28					125.3	39	38	22.90	20.98	1.92	
		ESU4	19 7 29.20									39.04	36.71	3.17	

SEP H = 21 20 40.70 UTC RMS = 0.09 NO = 6 — FREE DEPTH SOLUTION
22 LAT = 37.299 N ERH = 0.7 ERM = 1.0 AVFM = 2.6 Q = C
LONG = 116.527 W ERV = 0.7 GAP = 140 AVXM = QS = B — THIRSTY CANYON
DEPTH = 8.65 KM ERZ = 1.5 NM = QD = C

22	BPT	EPU	21 20 42.80	64	2.0	3.9	351	154	2.10	1.72	-0.02			
22	LPN	EPD4	21 20 43.00	77	3.0	18.4	102	112	2.30	3.57	-1.27			
22	NPN	EPD	21 20 46.35	63	2.0	31.9	234	103	5.65	5.66	-0.02			
22	BGB	EPD	21 20 46.44	59	2.0	35.4	131	102	6.24	6.23	0.06			
22	CTS	EPU	21 20 48.75	21	1.9	46.8	338	99	8.05	8.05	-0.00			
22	CDH1	EPU	21 20 48.55	37	2.4	47.0	157	99	7.65	8.08	-0.23			
22	SGV	EPD	21 20 50.00	37	2.5	53.9	237	98	9.30	9.19	0.11			
22	LCP	EPD4	21 20 51.11	29	2.2	54.2	144	97	10.41	9.24	1.17			

SEP H = 12 28 28.49 UTC RMS = 0.06 NO = 9 — FREE DEPTH SOLUTION
23 LAT = 36.947 N ERX = 11.0 ERM = 14.0 AVFM = 1.0 Q = D
LONG = 115.016 W ERY = 4.7 GAP = 230 AVXM = QS = D — MERCURY
DEPTH = 12.22 KM ERZ = 27.0 NM = QD = D

23	CPX	IPU	12 28 33.87	15	1.6	21.8	274	117	4.58	4.30	0.28			
23	SPRG	EPU	12 28 34.00	23	1.9	23.6	179	115	5.51	4.58	0.94			
23	MCY	IPD	12 28 33.95	22	1.9	30.2	296	110	5.46	5.56	-0.10			
23	LOP	EPU	12 28 34.00	14	1.5	31.5	259	109	5.51	5.83	-0.31			
23	BGB	EPD	12 28 35.90	16	1.7	39.8	292	105	7.41	7.88	0.47			
23	LSM	IPU	12 28 36.06	20	1.9	44.8	245	104	7.57	7.84	-0.26			
23	CCMS	EPD	12 28 36.15			45.0	263	104	7.66	7.88	-0.21			
23	CDH1	EPU	12 28 36.23	13	1.5	45.0	263	104	7.74	7.88	-0.13			
23	APK	EPU	12 28 34.00	21	2.0	68.7	162	99	5.51	11.65	-6.14			

SEP H = 6 17 23.99 UTC RMS = 0.35 NO = 8 — FREE DEPTH SOLUTION
24 LAT = 36.593 N ERX = 3.5 ERM = 5.3 AVFM = 2.1 Q = D
LONG = 115.663 W ERY = 3.9 GAP = 270 AVXM = QS = D — MERCURY
DEPTH = 9.23 KM ERZ = 6.1 NM = QD = D

24	SPRG	EPD2	6 17 28.10	22	1.9	17.2	310	115	4.11	3.43	0.69			
24	MCY	EPU6	6 17 34.97	30	2.2	27.9	246	106	10.98	5.05	5.93			
24	CPX	EPU	6 17 32.50	17	1.8	51.3	317	99	8.51	8.79	-0.27			
24	LSM	EPU	6 17 33.40	27	2.2	56.8	287	98	9.41	9.67	-0.25			
24	SDW	EPD6	6 17 38.03	35	2.4	60.7	275	97	6.04	10.30	-4.26			
24	CDH1	EPD	6 17 35.55	21	2.0	65.6	297	97	11.56	11.09	0.48			
24	BGB	EP	6 17 35.40	23	2.1	70.5	314	96	11.41	11.89	-0.42			
24	GPR	EPD	6 17 37.79	22	2.1	82.7	353	95	13.76	13.86	-0.10			
24	BPT	EPU6	6 17 43.42	20	2.1	109.1	315	94	19.43	18.13	0.91			
		ESD	6 17 56.55						32.56	32.43	0.14			
24	NPN	EPD6	6 17 43.98	24	2.3	116.5	298	93	19.99	19.10	0.89			
24	HTI	EPU	6 17 44.26			125.1	16	53	20.27	20.27	0.21			

SEP H = 16 5 0.85 UTC RMS = 0.27 NO = 12 — FREE DEPTH SOLUTION
25 LAT = 37.057 N ERX = 1.0 ERM = 1.3 AVFM = 3.0 Q = C
LONG = 116.060 W ERY = 0.8 GAP = 98 AVXM = QS = C — SILENT CANYON - TUCCA FLAT
DEPTH = 1.10 KM ERZ = 325.1 NM = QD = C

25	CPX	EPD	16 5 3.34	26	2.0	14.3	179	38	2.54	2.80	-0.25			
25	BGB	EPD	16 5 3.57			15.1	262	38	2.72	2.92	-0.15			
25	GLR	EPD	16 5 3.37			16.2	14	38	2.52	3.11	-0.60			
25	BSP	EPU	16 5 4.50	216	3.9	20.3	274	39	3.65	3.78	-0.13		COLLAP	
25	LCP	EPU	16 5 5.37	305	4.2	24.5	203	39	4.52	4.46	0.06			
25	EPN	EPU	16 5 6.25	212	3.9	29.2	307	39	5.40	5.22	0.18			
25	CDH1	EPU	16 5 6.35	45	2.5	31.7	226	39	5.50	5.62	-0.12			
25	GPR	EPD	16 5 6.00	65	2.9	40.0	40	39	7.15	6.98	0.17			
25	BLT	EPU2	16 5 9.25	240	4.0	45.3	352	39	8.49	7.84	0.56			
25	JCN	EPU2	16 5 13.00	22	2.1	68.6	183	39	12.15	11.64	0.52			
25	EPR	EPD3	16 5 15.00	26	2.2	78.7	81	38	14.15	13.27	0.89			
25	PRN	EPU	16 5 17.30	60	3.0	97.7	67	38	16.55	16.37	0.18			
25	HZP	EPU6	16 5 25.00	11	1.7	137.2	301	30	24.59	22.70	2.08			

SEP H = 18 59 49.48 UTC RMS = 0.07 NO = 5 — FREE DEPTH SOLUTION
26 LAT = 36.696 N ERH = 0.6 ERM = 1.3 AVFM = 1.2 Q = D
LONG = 116.445 W ERV = 1.2 GAP = 174 AVXM = QS = C — LATHROP WELLS

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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TORA (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
02	DLM	EPD	1 48 46.65					58 3.3	200.7	88	30	32.27	32.19	0.08	
OCT H = 6 13 40.91 UTC RMS = 0.17 NO = 13															FREE DEPTH SOLUTION
02 LAT = 36.989 N ERY = 0.7 ERH = 0.8 AVFM = 2.0 Q = A															
LONG = 119.987 W ERY = 0.8 GAP = 93 AVXM = Q3 = B															MERCURY
DEPTH = 5.00 KM ERZ = 4.6 NM = QD = B															
02	CPX	IPU	6 13 42.94					16 1.6	9.2	224	115	2.01	1.99	0.04	
02	SSP	IPD	6 13 44.94					34 2.3	21.8	251	100	4.03	3.95	0.07	
02	LOP	EPD	6 13 44.99					37 2.3	22.8	227	100	3.99	3.98	0.01	
02	BGB	EPU	6 13 44.85					21 1.9	22.1	284	100	3.98	4.00	-0.02	
02	GLR	EPU	6 13 44.77					16 1.6	23.9	353	99	3.86	4.23	-0.22	
02	SPRE	EPU	6 13 47.11					15 1.6	36.3	154	96	6.28	6.29	-0.10	
02	MCY	EPU	6 13 47.17					41 2.5	36.4	177	96	6.26	6.30	-0.04	
02	LSM	IPD	6 13 47.46					35 2.3	37.6	223	96	6.55	6.50	0.05	
02	EPN	EPU	6 13 47.80					35 2.8	39.0	318	96	6.89	6.73	0.16	
02	GPR	EPD	6 13 48.15					14 1.6	42.8	27	95	7.28	7.38	-0.10	
02	SDM	EPD	6 13 49.12					21 1.9	49.4	219	94	8.21	8.40	-0.19	
02	BPT	EPU4	6 13 52.35					23 2.1	58.6	304	94	11.44	9.98	1.46	
02	JDN	EPU	6 13 51.50					28 1.9	61.8	198	94	10.59	10.42	0.17	
02	PRN	EPD	6 13 57.30					28 2.1	95.2	61	92	16.39	15.86	0.53	
OCT H = 20 15 51.33 UTC RMS = 0.36 NO = 16															FIXED DEPTH SOLUTION
02 LAT = 36.527 N ERX = 6.2 ERH = 6.8 AVFM = 3.1 Q = D															DEPTH CONTROL INADEQUATE
LONG = 118.779 W ERY = 2.8 GAP = 283 AVXM = Q3 = D															MOAPA
DEPTH = 5.00 KM ERZ = 2.6 NM = — QD = D															
02	SPRE	EPD	20 16 7.10					44 2.7	94.8	281	92	15.77	12.65	0.11	
02	MCY	EPD	20 16 9.18					77 3.3	106.9	278	92	17.77	17.75	0.02	
02	JDN	EPD	20 16 10.60					53 3.0	119.0	265	92	19.27	19.72	-0.45	
02	GPR	EPD	20 16 11.65					40 2.8	125.8	315	53	20.32	20.77	-0.46	
02	LOP	EPD	20 16 12.73					70 3.3	129.3	266	53	21.40	21.22	0.18	
02	NCP	EPD	20 16 11.95					72 3.3	131.0	250	53	20.62	21.45	-0.83	
02	GLR	EPU	20 16 13.20					37 2.7	133.2	304	53	21.87	21.73	0.24	
02	LSM	EPU	20 16 13.23					85 3.5	135.6	280	53	21.90	22.04	-0.14	
02	SSP	EPU	20 16 13.76					65 3.2	136.0	289	53	22.43	22.09	0.34	
02	SDM	EPD	20 16 14.20					56 3.1	140.1	275	53	22.87	22.62	0.24	
02	CONI	EPD	20 16 14.86					41 2.9	142.3	285	53	23.53	22.92	0.61	
02	TPU	EPD	20 16 14.02					37 2.8	142.5	327	53	22.69	22.93	-0.25	
02	APR	EPU4	20 16 16.26						152.5	265	53	24.93	24.24	0.69	
02	EPN	EPU	20 16 16.55					78 3.5	157.4	299	53	25.22	24.87	0.35	
02	BPT	EPU4	20 16 13.24					58 3.1	177.5	298	53	21.91	27.48	-5.57	
02	KPNA	EPU	20 16 21.02						196.7	314	53	29.69	29.97	-0.29	
02	GSM	EPU4	20 16 23.21						197.9	252	53	31.88	30.13	1.74	
02	SGV	EPU	20 16 23.35					69 3.2	207.3	284	53	32.02	31.35	0.66	
02	CTS	EPU	20 16 23.10						212.6	306	53	31.77	32.04	-0.27	
OCT H = 20 16 1.15 UTC RMS = 0.97 NO = 8															FREE DEPTH SOLUTION
02 LAT = 37.170 N ERX = 8.3 ERH = 9.6 AVFM = 2.7 Q = D															
LONG = 116.992 W ERY = 4.9 GAP = 166 AVXM = Q3 = D															DELAMAR MOUNTAINS
DEPTH = 9.71 KM ERZ = 25.7 NM = QD = C															
02	EPN	EPD	20 16 6.51					56 2.7	17.3	269	116	3.36	3.47	-0.11	
02	PPN	EPD	20 16 7.10						26.8	349	107	5.95	4.90	1.05	
02	DLM	EPD	20 16 8.19						53.3	25	99	7.04	9.11	-2.07	
02	NPN	EPD	20 16 10.25					51 2.7	53.7	5	99	9.10	9.19	-0.09	
02	HTI	EPD	20 16 12.32					40 2.5	61.5	336	98	11.17	10.23	0.94	
02	SMRG	IPD	20 16 14.63					34 2.5	75.3	191	96	13.48	12.67	0.86	
02	SRG	EPU	20 16 14.20					64 3.0	79.3	355	96	13.05	13.31	-0.26	
02	BLT	EPD	20 16 17.72						106.4	298	94	16.57	17.70	-1.13	
OCT H = 5 25 3.67 UTC RMS = 0.26 NO = 18															FREE DEPTH SOLUTION
03 LAT = 37.272 N ERX = 0.8 ERH = 0.9 AVFM = 2.6 Q = B															
LONG = 116.338 W ERY = 0.5 GAP = 98 AVXM = Q3 = B															SILENT CANYON - NORTH
DEPTH = 1.11 KM ERZ = 0.8 NM = QD = B															
03	EPN	IPD	5 25 4.03					115 3.3	1.5	125	126	0.36	0.49	-0.13	
03	BPT	EPD	5 25 8.20					48 2.6	18.7	291	38	4.53	3.51	0.42	
03	BGB	EPU	5 25 7.65					47 2.6	22.6	154	38	3.99	4.15	-0.12	
03	BLT	EPU	5 25 9.50					55 2.7	32.1	34	38	5.83	5.69	0.14	
03	SSP	EPD	5 25 9.90					83 3.1	34.8	142	38	6.23	6.10	0.13	
03	LCP	EPU	5 25 11.30					70 3.0	43.5	160	38	7.63	7.55	0.08	
03	LSM	EPD	5 25 13.25					60 3.0	53.9	174	38	9.58	9.24	0.35	
03	CTS	EPD	5 25 13.35					45 2.6	57.7	323	38	9.68	9.86	-0.18	

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LOCAL-EVENT DATA REPORT

OCT 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	AMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
OCT H = 19 40 31.20 UTC				RMS = 0.09		NO = 14									FREE DEPTH SOLUTION
06 LAT = 37.277 N				ERX = 0.2		ERH = 0.3			AVFM = 2.1		Q = B				
LONG = 117.055 W				ERY = 0.2		GAP = 88			AVXM =		QS = A				MT. JACKSON
DEPTH = 6.75 KM				ERZ = 1.6		NM =					QD = C				
06	GPN	IPU1	19 40 34.54						14	1.5	18.3	278	106	3.34	3.45	-0.12
06	SGV	EPU	19 40 37.04						29	2.2	32.8	177	99	5.68	5.76	0.08
06	MCM	IPU	19 40 38.55						12	1.4	43.2	295	97	7.35	7.42	-0.07
06	BPT	EPD4	19 40 37.56						30	2.2	46.2	89	96	6.36	7.91	-1.96
06	CTS	IPD	19 40 39.66						13	1.5	49.7	36	96	8.46	8.48	-0.03
06	LCM	EPU	19 40 40.38						15	1.7	52.7	265	96	9.10	8.97	0.13
06	MZP	EPU	19 40 40.39						9	1.2	55.3	320	95	9.19	9.38	-0.08
06	BRU	EPU	19 40 42.63						23	2.1	68.7	146	94	11.43	11.55	-0.12
06	FPT	EPU	19 40 43.57						18	1.9	74.8	161	94	12.37	12.55	-0.08
06	KRNA	EPD	19 40 44.59						23	2.1	79.5	49	94	13.35	13.38	0.04
06	CDM1	EPU2	19 40 46.80						32	2.6	80.2	125	94	13.68	13.82	0.10
06	SVP	EPD	19 40 45.12						7	1.1	82.0	306	94	13.92	13.71	0.06
06	LSM	EPD1	19 40 46.53						47	2.8	91.8	131	93	15.33	15.30	0.03
06	SDM	EPD1	19 40 47.08						48	2.7	94.7	138	93	15.88	15.79	0.01
06	QCS	EPU4	19 40 50.86						20	2.1	114.5	62	93	19.66	18.99	0.66
06	QSM	EPU2	19 40 54.37						40	2.8	146.5	173	93	23.17	23.28	-0.11
06	NOP	EPD4	19 40 56.38						56	3.2	150.8	148	93	25.18	23.85	1.25
OCT H = 21 45 54.85 UTC				RMS = 0.17		NO = 16									FREE DEPTH SOLUTION
08 LAT = 37.308 N				ERX = 0.3		ERH = 0.4			AVFM = 3.3		Q = D				
LONG = 116.796 W				ERY = 0.9		GAP = 285			AVXM =		QS = C				DELAMAR MOUNTAINS
DEPTH = 5.62 KM				ERZ = 1.5		NM =					QD = D				
08	PRN	IPU	21 45 58.59						131	3.5	25.6	298	99	4.54	4.57	-0.03
08	EPR	EPD	21 46 0.57						109	3.3	37.8	267	96	6.52	6.53	-0.01
08	GPR	EPU	21 46 8.45						91	3.4	86.8	272	93	14.40	14.48	-0.08
08	SPRG	EPD4	21 46 8.17						53	2.9	94.0	280	92	14.12	15.65	-1.48
08	GLR	EPD	21 46 12.42						77	3.3	109.2	264	92	18.37	18.13	0.38
08	SPRG	EPD	21 46 12.73						80	3.3	112.7	233	92	18.68	18.69	-0.01
08	BLT	EPU	21 46 13.80						46	2.9	120.1	279	92	19.75	19.90	-0.15
08	MCY	EPU	21 46 14.47						76	3.3	125.8	236	53	20.42	20.71	-0.29
08	SSP	EPU	21 46 15.95						74	3.3	133.3	252	53	21.90	21.68	0.21
08	EPN	EPU2	21 46 16.50						73	3.3	135.0	266	53	22.45	22.03	0.42
08	CDM1	EPU	21 46 16.98						63	3.2	144.0	250	53	22.93	23.07	-0.14
08	CDM5	EPD4	21 46 18.12						48	2.8	144.0	250	53	24.07	23.07	1.00
08	KRNA	EPU	21 46 17.68						46	3.0	149.0	290	53	23.63	23.72	-0.09
08	JCN	EPU	21 46 19.00						47	3.0	150.8	231	53	23.95	23.95	-0.00
08	BPT	EPD4	21 46 19.78						88	3.5	154.3	269	53	25.73	24.81	0.92
08	BRO	EP	21 46 21.18						37	2.9	173.6	250	53	27.13	26.92	0.21
08	MCP	EPD3	21 46 21.46						57	3.3	177.9	223	53	27.81	27.48	0.33
08	FPT	EPU4	21 46 23.75						39	3.0	191.3	247	53	29.70	29.21	0.58
08	SGV	IPD	21 46 24.76						75	3.6	202.1	260	53	30.71	30.62	0.09
08	GPN	EPU	21 46 26.70						63	3.5	218.7	270	53	32.65	32.77	-0.12
08	PGE	EPU4	21 46 32.50						47	3.3	224.6	283	53	38.45	34.06	4.39
08	MCA	EPU4	21 46 31.87						63	3.5	232.9	252	53	37.82	34.62	3.20
08	MZP	EPU	21 46 28.24						57	3.5	233.3	281	53	34.19	34.66	-0.29
08	QSM	EPU4	21 46 32.86						57	3.5	237.5	231	53	38.81	35.21	3.60
08	SVP	EPD1	21 46 33.20						67	3.7	269.9	286	53	39.15	39.22	-0.02
08	PPK	EPU2	21 46 33.64						66	3.7	276.1	273	53	39.59	40.22	-0.63
OCT H = 2 19 22.11 UTC				RMS = 0.14		NO = 12									FREE DEPTH SOLUTION
09 LAT = 36.771 N				ERX = 0.5		ERH = 0.6			AVFM = 2.0		Q = C				
LONG = 115.935 W				ERY = 0.4		GAP = 100			AVXM =		QS = C				MERCURY
DEPTH = 1.68 KM				ERZ = 166.8		NM =					QD = C				
09	MCY	IPD0	2 19 24.42						33	2.2	12.4	191	38	2.31	2.38	-0.06
09	SPRG	IPU	2 19 24.61						22	1.9	14.1	127	38	2.50	2.65	-0.15
09	LOP	EPU	2 19 26.00						34	2.3	22.7	294	38	3.89	4.05	-0.16
09	LSM	EPU	2 19 27.32						32	2.2	30.3	263	38	5.21	5.28	-0.07
09	CDM1	EPU0	2 19 28.18						22	1.9	35.6	246	38	6.07	6.14	-0.07
09	CDM5	EPU	2 19 28.13								35.6	246	38	6.02	6.14	-0.12
09	SDM	EPU	2 19 29.00						15	1.6	38.7	249	38	6.89	6.64	0.25
09	BRB	EPD4	2 19 29.61						20	1.9	39.5	319	38	7.50	6.77	0.78
09	JCN	EPU0	2 19 29.90						17	1.7	39.8	292	39	6.89	6.82	0.07
09	GLN	EPU	2 19 30.24								48.1	351	38	8.13	8.17	0.11
09	EPN	EPU0	2 19 27.82						32	2.4	60.1	325	38	5.71	10.13	-4.42
09	BRO	EPU	2 19 32.83						17	1.8	61.6	269	38	10.72	10.38	0.34
09	GPW	EPU0	2 19 32.80						16	1.8	64.1	13	38	10.69	10.78	-0.09
09	SHPG	EPU	2 19 34.95						21	2.0	75.8	113	38	12.84	12.63	0.21
09	PRN	EPU0	2 19 32.15						42	2.7	105.7	48	38	10.04	17.54	-7.50
09	MCA	EPU4	2 19 38.63								121.1	264	38	16.52	20.04	-3.52

LOCAL EVENT DATA REPORT

OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOWS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS

OCT H = 10 57 31.83 UTC RMS = 0.10 NO = 8 FREE DEPTH SOLUTION
13 LAT = 37.250 N ERX = 0.4 ERH = 0.6 AVFM = 2.1 Q = B
LONG = 116.495 W ERY = 0.5 GAP = 106 AVXM = QS = A SILENT CANYON - NORTH
DEPTH = 9.00 KM ERZ = 1.1 NM = QD = A

13	BMT	EPU	10 57 34.37				08	2.4	7.6	292	139	2.56	2.18	-0.08
13	EPN	EPD	10 57 36.70						12.6	113	128	2.87	2.80	0.07
13	BGB	EP 4	10 57 38.25				37	2.4	31.7	140	105	6.42	5.67	0.80
13	CDMI	EPU	10 57 39.74				15	1.6	45.8	165	108	7.95	7.91	0.04
13	CTS	EPU	10 57 40.20						48.7	330	99	8.37	8.38	-0.01
13	LCP	EPD	10 57 40.54						51.6	150	99	8.71	8.84	-0.13
13	KRNA	EPU	10 57 41.20						55.8	7	98	9.37	9.39	-0.02
13	SGV	EPU	10 57 42.26				28	2.1	59.8	239	94	10.43	10.17	0.26
13	LSM	EPD	10 57 41.77						59.9	164	98	9.94	10.17	-0.23
13	MCY	EPU4	10 57 46.00						79.4	146	96	14.17	13.33	0.84

OCT H = 14 52 15.51 UTC RMS = 0.26 NO = 11 FREE DEPTH SOLUTION
13 LAT = 37.070 N ERX = 1.0 ERH = 1.7 AVFM = 1.8 Q = C
LONG = 117.083 W ERY = 1.6 GAP = 96 AVXM = QS = C MT. JACKSON
DEPTH = 5.03 KM ERZ = 6.9 NM = QD = B

13	SGV	IPU	14 52 17.75				24	1.9	18.9	156	113	2.24	2.26	-0.02
13	GVN	IPD	14 52 20.21				19	1.8	24.6	252	100	4.70	4.37	0.33
13	MCA	EPD4	14 52 20.45				12	1.5	50.1	201	95	6.94	8.52	-3.58
13	BRO	EPD	14 52 24.34				19	1.9	53.2	130	95	8.03	9.02	-0.19
13	BMT	EPD4	14 52 23.21				17	1.8	54.2	64	98	7.70	9.19	-1.89
13	FMT	EPD4	14 52 20.22				30	2.3	54.9	150	94	4.71	9.31	-4.58
13	HGM	EPU	14 52 24.29				18	1.8	55.1	318	94	8.78	9.35	-0.57
13	EPN	EPD	14 52 27.40						69.3	77	93	11.89	11.65	0.24
13	CTS	EPD	14 52 27.37						72.7	27	93	11.86	11.87	-0.01
13	BGB	EPU	14 52 28.38				20	2.0	76.1	93	93	12.79	12.78	0.10
13	LSM	EPU	14 52 28.85						81.1	117	93	13.34	13.55	-0.22
13	SRM	EPU	14 52 24.90						81.4	125	93	13.39	13.61	-0.22
13	LOP	EPU	14 52 29.80						84.9	106	93	14.29	14.18	0.11
13	GPR	EPU	14 52 35.84				6	1.1	120.0	76	92	20.33	19.89	0.44

OCT H = 16 27 24.22 UTC RMS = 0.08 NO = 13 FREE DEPTH SOLUTION
13 LAT = 37.493 N ERX = 0.3 ERH = 0.4 AVFM = 2.0 Q = C
LONG = 115.369 W ERY = 0.3 GAP = 95 AVXM = QS = B ALAMO
DEPTH = 6.05 KM ERZ = 4.7 NM = QD = C

13	MTI	IPD	16 27 28.05				27	2.1	22.1	23	102	3.83	4.02	0.01
13	PPN	EPU	16 27 29.50				42	2.5	29.8	109	99	5.28	5.25	0.03
13	EPR	EPD	16 27 30.96				27	2.1	39.4	156	97	6.74	6.88	-0.07
13	GPR	EPD2	16 27 30.75				16	1.7	39.8	200	96	6.53	6.86	-0.33
13	NPN	EPU	16 27 31.40				28	2.2	42.1	65	96	7.18	7.23	-0.05
13	SRG	EPD	16 27 32.83				32	2.3	50.7	32	95	8.61	8.63	-0.02
13	GLR	EPU	16 27 35.39				17	1.8	66.1	240	94	11.17	11.13	0.19
13	BLT	EPU	16 27 35.60						67.8	267	94	11.38	11.40	-0.03
13	BGB	EPD	16 27 39.27				23	2.2	91.4	236	93	15.05	15.23	-0.13
13	KRNA	EPU	16 27 39.85						93.8	248	93	15.63	15.62	0.00
13	SPRG	EPD4	16 27 41.15				28	2.1	96.9	206	93	16.93	16.13	0.80
13	SSP	EPU	16 27 41.00						98.3	230	93	16.78	16.35	0.42
13	LCP	EPU	16 27 41.17						100.2	225	93	16.95	16.67	0.28
13	BMT	EPU4	16 27 58.07				14	1.8	105.7	257	92	33.65	17.56	15.89
13	MCY	EPU	16 27 41.73						106.2	210	92	17.51	17.65	-0.14
13	SPRG	EPU4	16 27 57.41				7	1.2	111.3	170	92	33.19	18.87	14.77
13	LSM	EPU	16 27 44.00						115.9	224	92	19.78	19.22	0.56
13	SGV	EPU4	16 28 10.46				10	1.7	158.2	249	53	46.24	24.88	21.36

OCT H = 4 53 22.88 UTC RMS = 0.24 NO = 12 FREE DEPTH SOLUTION
15 LAT = 37.224 N ERX = 1.5 ERH = 2.1 AVFM = 2.6 Q = C
LONG = 115.001 W ERY = 1.5 GAP = 216 AVXM = QS = B ALAMO
DEPTH = 1.84 KM ERZ = 3.1 NM = QD = D

15	EPR	IPU	4 53 25.90				58	2.7	17.6	249	90	3.02	3.21	-0.19
15	PPN	IPD	4 53 26.40				62	2.8	20.7	348	90	3.52	3.72	-0.20
15	NPN	EPD	4 53 30.95				29	2.2	47.9	7	90	8.07	8.14	-0.07
15	OLM	EPU	4 53 31.11				23	2.0	48.3	29	90	8.23	8.21	0.03
15	MTI	EPD	4 53 32.02				28	2.2	55.6	334	90	9.14	9.40	-0.06
15	GPR	EPD	4 53 34.35				25	2.2	69.3	280	90	11.47	11.62	-0.15
15	SRG	EPD	4 53 35.23				44	2.7	73.3	355	90	12.35	12.26	0.09
15	BLT	EPU	4 53 40.25						103.9	285	90	17.37	17.24	0.13
15	MCY	EPD4	4 53 44.64				42	2.7	106.8	234	90	21.76	17.58	4.18
15	BGB	EPD4	4 53 42.40				38	2.7	111.0	249	90	19.52	18.39	1.18
15	SSP	EPD4	4 53 42.70				41	2.8	113.2	253	90	19.82	18.76	1.07

OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
17	MGN	EPU	19 22 5.00				5	0.8	81.2	331	53	13.53	13.53	0.00	
17	CTS	EPDe	19 22 10.21				10	1.5	98.0	18	53	18.74	15.71	3.03	
17	BLT	EPDe	19 22 9.77				7	1.2	110.3	48	53	18.30	17.32	0.99	

OCT H = 0 33 9.03 UTC RMS = 0.31 NO = 6 — FREE DEPTH SOLUTION
19 LAT = 37.372 N ERH = 3.1 ERM = 6.2 AVFM = 2.6 Q = D
LONG = 116.191 W ERV = 2.8 GAP = 199 AVXM = QS = C — SILENT CANYON - NORTH
DEPTH = 8.45 KM ERZ = 529.7 NM = QD = D

19	EPN	EPD	0 33 13.70				72	2.9	21.1	214	38	3.87	4.04	-0.17
19	GLR	EPU	0 33 13.91				29	2.1	24.5	141	38	4.08	4.08	-0.17
19	SSP	EPUe	0 33 19.47				43	2.6	49.6	183	38	9.64	8.68	0.96
19	CTS	EPD	0 33 19.65				30	2.3	55.9	302	38	9.82	9.70	0.12
19	LCP	EPU	0 33 20.32				41	2.6	57.5	178	38	10.49	9.96	0.54
19	CDM1	EPD	0 33 20.26						57.9	191	38	10.43	10.02	0.41
19	NPN	EPD	0 33 20.65				47	2.7	64.4	208	38	10.42	11.08	-0.26
19	LSM	EPUe	0 33 23.40				47	2.7	70.6	196	38	13.17	12.09	1.08

OCT H = 11 36 8.03 UTC RMS = 0.80 NO = 7 — FREE DEPTH SOLUTION
20 LAT = 37.270 N ERH = 11.4 ERM = 12.8 AVFM = 2.1 Q = D
LONG = 117.000 W ERV = 5.6 GAP = 200 AVXM = QS = D — MT. JACKSON
DEPTH = 14.31 KM ERZ = 12.5 NM = QD = D

20	GPN	EPUe	11 36 32.00				24	2.0	23.3	278	120	23.97	4.68	19.29
20	NPN	EPDe	11 36 20.65				25	2.0	26.5	143	116	12.62	5.14	7.48
20	BPT	EPDe	11 36 22.81				29	2.2	41.3	88	107	14.79	7.39	7.09
20	GVN	EPDe	11 36 33.83				12	1.4	42.7	226	107	25.80	7.59	17.41
20	CTS	EPU	11 36 16.93				20	1.9	47.6	31	105	8.90	9.37	0.53
20	EPN	IPU	11 36 18.40				47	2.7	64.3	46	102	10.37	10.38	-0.00
20	BRO	EPUe	11 36 27.87				12	1.5	65.6	149	101	19.84	11.19	7.85
20	BGB	EPU	11 36 21.55				28	2.0	73.2	111	100	13.52	12.40	1.14
20	KANA	EPU	11 36 19.71				25	2.2	76.4	46	100	11.68	12.94	-1.26
		ISD	11 36 31.21									23.18	22.64	0.54
20	BLT	EPD	11 36 20.43				30	2.4	79.4	75	99	12.40	13.43	-1.03
20	LOP	EPUe	11 36 25.00				30	2.4	87.2	122	98	16.97	14.68	2.29
20	LSM	EPDe	11 36 26.80				36	2.5	87.6	132	98	18.77	14.74	4.03
20	GPR	EPUe	11 36 22.71				15	1.9	109.1	86	53	14.68	17.69	-3.01
20	MCY	EPUe	11 36 29.05				28	2.4	114.4	126	53	21.02	18.38	2.65
20	SPRG	EPDe	11 36 25.11				13	1.8	123.8	121	53	17.08	19.59	-2.51
20	TPU	EPU	11 36 27.62				25	2.4	125.2	73	53	19.59	19.78	-0.19
20	APK	EPUe	11 36 30.40				20	2.3	165.3	130	53	22.37	24.98	-2.61
20	PRN	EPUe	11 36 35.78				31	2.7	173.5	85	53	27.67	26.06	1.62

OCT H = 11 41 37.94 UTC RMS = 0.09 NO = 14 — FREE DEPTH SOLUTION
20 LAT = 37.316 N ERX = 0.3 ERM = 0.4 AVFM = 2.4 Q = B
LONG = 116.347 W ERY = 0.2 GAP = 110 AVXM = QS = A — SILENT CANYON - NORTH
DEPTH = 6.61 KM ERZ = 1.3 NM = QD = C

20	EPN	IPU	11 41 40.30				65	2.8	11.5	178	106	2.36	2.29	0.07
20	BLT	IPD	11 41 42.40				28	1.8	24.8	49	97	4.46	4.41	0.05
20	BGB	EPU	11 41 43.46				37	2.4	32.7	161	95	5.52	5.64	-0.12
20	SSP	IPD	11 41 45.54				32	2.3	44.9	165	94	7.56	7.67	-0.11
20	KANA	IPU	11 41 45.92				34	2.4	48.2	357	94	7.94	8.21	-0.23
20	CTS	IPU	11 41 46.32				27	2.2	49.1	317	93	8.34	8.35	0.03
20	NPN	EPDe	11 41 42.57				37	2.4	49.3	238	93	4.63	8.38	-3.75
20	GPR	EPD	11 41 46.79				28	2.2	51.1	88	93	8.85	8.68	0.17
20	LCP	EPD	11 41 46.80				37	2.5	53.7	163	93	8.86	9.10	-0.24
20	BRO	EPU	11 41 49.85				25	2.2	66.2	202	93	11.11	11.14	-0.03
20	TPU	EPD	11 41 49.55				24	2.1	69.6	63	92	11.41	11.67	-0.07
20	MCY	EPU	11 41 51.45				39	2.6	80.3	155	92	13.51	13.43	0.08
20	GMN	EPDe	11 41 53.95				32	2.4	80.9	269	92	16.01	13.52	2.49
20	FMT	EPD	11 41 51.97				24	2.2	84.3	237	92	14.03	14.08	0.05
20	JON	EPD	11 41 54.69				29	2.4	99.7	167	92	16.66	16.58	0.08
20	PRN	EPU2	11 41 57.65				36	2.6	115.3	85	91	19.71	19.12	0.59
20	SRG	EPU	11 41 59.30				35	2.7	129.3	61	53	21.36	21.26	0.10
20	NPN	EPUe	11 42 0.50				33	2.6	130.2	73	53	22.56	21.37	1.19
20	APK	EPDe	11 41 52.27				28	2.5	130.4	148	53	14.33	21.40	-7.07
20	OLM	EPUe	11 42 2.75				36	2.8	145.8	77	53	24.81	23.40	1.40

OCT H = 4 1 50.71 UTC RMS = 0.17 NO = 11 — FREE DEPTH SOLUTION
21 LAT = 36.691 N ERH = 1.0 ERM = 1.4 AVFM = 2.5 Q = C
LONG = 115.700 W ERV = 1.0 GAP = 142 AVXM = QS = B — MERCURY
DEPTH = 7.43 KM ERZ = 2.3 NM = QD = C

LOCAL-EQUAL DATA REPORT

OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	IMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
24	BPT	EPD	13 27 57.81				27	2.2	41.3	343	95	10.76	10.36	0.00	
24	LPR	EPD	13 27 59.06				33	2.4	71.5	73	96	12.01	12.01	-0.00	
24	GVN	EPD	13 28 7.35				35	2.7	123.4	271	53	20.30	20.30	-0.00	

OCT H = 19 25 38.09 UTC RMS = 0.49 NO = 13 — FREE DEPTH SOLUTION
24 LAT = 37.081 N ERX = 2.0 ERH = 2.0 AVFM = 2.6 Q = C
LONG = 115.943 W ERY = 1.3 GAP = 96 AVXM = QS = C — GROOM LAKE
DEPTH = 9.52 KM ERZ = 8.6 NM = QD = A

24	GLR	IP	19 25 41.85				58	2.7	14.0	340	121	2.96	2.99	0.12
24	BGB	EPU	19 25 43.11				47	2.6	24.8	259	109	4.22	4.46	-0.19
24	SSP	IPD	19 25 43.91				66	2.9	28.5	233	106	5.02	5.17	-0.15
24	LCP	EPU	19 25 44.16				76	3.0	31.0	216	105	5.27	5.56	-0.29
24	GPR	EPU2	19 25 43.23				54	2.7	32.9	31	100	4.34	5.85	-1.51
24	EPN	EPD4	19 25 45.96				40	2.6	35.3	295	103	7.07	6.24	0.83
24	CDM5	EPD4	19 25 43.24						39.9	232	101	4.39	6.97	-2.57
24	CDM1	EPU	19 25 44.01				24	2.0	39.9	232	101	5.42	6.97	-1.04
24	BLT	EPD	19 25 47.22				26	2.1	44.9	340	100	8.33	7.77	0.56
24	SPRG	EPU	19 25 47.10				63	2.9	45.0	162	100	8.21	7.79	0.42
24	MCY	EPU	19 25 47.00				83	3.1	46.5	150	100	8.11	8.02	0.09
24	BPT	EPD	19 25 48.97				43	2.6	55.4	294	98	10.08	9.46	0.23
24	BRD	EPU4	19 26 0.15				20	2.0	68.8	239	97	21.26	11.61	9.66
24	EPR	EPU4	19 25 52.20				41	2.6	69.7	82	97	13.31	11.76	1.55
24	JON	EPU	19 25 51.55				24	2.1	72.2	190	96	12.66	12.16	0.50
24	KRNA	EPU	19 25 53.11				24	2.2	83.0	334	95	14.22	13.91	0.32
24	PRN	EPU	19 25 53.31				45	2.7	88.8	66	95	14.42	14.85	-0.43
24	MTI	EPU4	19 25 56.62				45	2.8	90.1	43	95	17.73	15.06	2.68
24	SCV	EPD4	19 25 57.65				39	2.6	95.8	263	95	18.76	15.98	2.78
24	NPN	EPU4	19 25 59.95				40	2.7	110.9	55	53	21.06	18.38	2.68
24	GPN	EPU4	19 26 0.50				33	2.6	117.7	282	53	21.6[illegible]	19.27	2.34
24	SRG	EPU4	19 26 1.11				49	2.9	119.1	82	53	22.22	19.45	2.77
24	GVN	EPU4	19 26 1.20				34	2.6	123.1	266	53	22.31	19.97	2.34
24	DLM	EPD4	19 26 2.00				27	2.4	123.2	62	53	23.11	19.99	3.12
24	MGM	EPD4	19 26 3.77				31	2.6	141.7	286	53	24.88	22.39	2.49
24	TAP	EPD4	19 26 6.02				30	2.6	157.0	315	53	27.13	24.37	2.76

OCT H = 19 27 45.10 UTC RMS = 0.25 NO = 14 — FREE DEPTH SOLUTION
24 LAT = 37.078 N ERX = 1.4 ERH = 1.6 AVFM = 2.4 Q = C
LONG = 116.007 W ERY = 0.9 GAP = 139 AVXM = QS = C — SILENT CANYON - YUCCA FLAT
DEPTH = 0.59 KM ERZ = 5.3 NM = QD = C

24	GLR	EPU	19 27 47.65				53	2.6	13.5	356	114	2.55	2.84	-0.10
24	BGB	EPU	19 27 48.88				64	2.8	20.2	257	110	3.78	3.83	-0.00
24	SSP	EPU	19 27 49.51				50	2.6	25.4	228	106	4.41	4.64	-0.23
24	LCP	EPD	19 27 50.00				48	2.6	28.7	210	104	4.90	5.16	-0.26
24	EPN	EPU4	19 27 51.84				50	2.6	32.0	290	103	6.74	5.68	1.06
24	GPR	EPU	19 27 51.40				28	2.1	35.2	36	101	6.30	6.20	0.10
24	CDM1	EPU	19 27 51.30				24	2.0	36.7	229	101	6.20	6.43	-0.24
24	CDM5	EPU	19 27 51.56				13	1.5	36.7	229	101	6.46	6.43	0.02
		130	19 27 56.75									11.65	11.26	0.39
24	BLT	EPD	19 27 52.45				20	1.9	44.0	345	99	7.85	7.60	0.25
24	MCY	EPD	19 27 53.35				56	2.8	46.4	175	99	8.25	7.98	0.27
24	SDM	EPU	19 27 54.15				36	2.4	56.4	212	97	9.05	9.54	-0.54
24	TPU	EPU	19 27 56.40				23	2.1	66.5	28	96	11.30	11.23	0.07
24	JCN	EPU	19 27 57.40				22	2.1	71.4	187	96	12.30	12.01	0.29
24	PPN	EPD4	19 28 2.15				35	2.5	92.5	67	94	17.05	15.43	1.62
24	NCP	EPU3	19 28 3.60				25	2.3	106.2	187	94	18.50	17.67	0.83
24	NPN	EPU4	19 28 6.05				34	2.6	114.2	56	53	20.95	18.91	2.04

OCT H = 0 27 40.59 UTC RMS = 0.37 NO = 30 — FREE DEPTH SOLUTION
25 LAT = 38.197 N ERX = 1.2 ERH = 3.0 AVFM = 2.8 Q = D
LONG = 117.233 W ERY = 2.7 GAP = 246 AVXM = QS = C — TONOPAH
DEPTH = 0.61 KM ERZ = 5.9 NM = QD = D

25	TNP	IPU	0 27 42.89						12.9	174	38	2.30	2.67	-0.37
25	CTS	EPU	0 27 53.21						76.3	144	38	12.62	12.98	-0.36
25	MGM	EPU	0 27 55.12				29	2.4	87.1	195	38	14.53	14.75	-0.21
25	KRNA	EPU	0 27 55.50						89.9	124	38	14.91	15.19	-0.29
25	GVN	IPU4	0 27 56.75				48	2.8	99.6	141	39	16.16	16.77	-0.61
25	PPK	EPU2	0 27 57.70				23	2.2	104.1	215	38	17.11	17.51	-0.40
25	LCM	EPD	0 27 59.42				28	2.4	112.9	149	38	18.23	18.94	0.29
25	BPT	EPD4	0 28 0.03						114.7	149	39	19.44	19.88	-0.04
25	UCS	EPU3	0 28 1.02				40	2.8	125.1	112	39	20.43	20.92	-0.49
25	BLT	EPU	0 28 1.72				38	2.7	126.6	159	39	21.13	21.17	-0.04
25	GVN	EPU	0 28 2.79						133.1	144	38	22.20	22.21	-0.02
25	EPN	EPU	0 28 3.75				71	3.3	135.4	144	38	23.16	22.59	0.57

90814 0253

OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 25	QCS	EPD	1 7 3.67				39	2.7	99.9	299	38	16.77	16.89	-0.11	
. 25	BLT	EPU	1 7 4.61				39	2.7	100.1	277	34	18.31	18.22	0.10	
. 25	MCY	EPD	1 7 6.05				49	2.9	118.8	231	38	19.75	19.96	-0.21	
. 25	LCP	EPU	1 7 6.66				47	2.9	122.7	246	38	20.36	20.59	-0.23	
. 25	KRNA	EPU	1 7 9.17				42	2.9	136.8	290	38	22.87	22.83	0.04	
. 25	JCN	EPU	1 7 10.54				40	2.8	144.6	227	38	24.24	23.84	0.40	
. 25	SDM	EPD	1 7 10.81				36	2.8	147.3	259	38	24.51	24.20	0.31	
. 25	NCP	EPD	1 7 13.76				43	3.0	173.2	219	38	27.46	27.56	-0.10	
. 25	TAP	EPU	1 7 20.11				16	2.3	218.7	292	38	33.81	33.46	0.35	

. OCT H = 13 22 51.35 UTC RMS = 0.13 NO = 9 — FREE DEPTH SOLUTION
. 27 LAT = 36.796 N ERX = 0.5 ERH = 0.8 AVPM = 2.4 Q = C
. LONG = 116.316 W ERY = 0.6 GAP = 129 AVXM = QS = C
. DEPTH = 3.73 KM ERZ = 5.4 KM = QD = B — LATHROP WELLS

. 27	LSM	IPU	13 22 52.76				87	3.0	7.5	148	108	1.41	1.62	-0.21	
. 27	LCP	IPU	13 22 54.21				36	2.3	14.8	64	99	2.86	2.78	0.08	
. 27	SDM	EPD	13 22 54.57				38	2.1	16.8	187	97	3.22	3.11	0.11	
. 27	CPX	EPU	13 22 56.18				30	2.2	27.3	97	94	4.83	4.80	0.02	
. 27	MCY	EPD	13 22 57.15				39	2.4	35.8	115	93	5.80	6.05	-0.25	
. 27	JCN	EPU	13 22 58.79				38	2.2	43.9	154	93	7.44	7.50	-0.06	
. 27	SPRG	EPU	13 22 59.36				36	2.4	46.7	104	93	8.01	7.95	0.05	
. 27	SGV	EPD	13 23 2.54				34	2.4	67.1	288	92	11.19	11.27	-0.08	
. 27	GVN	EPUG	13 23 9.01				33	2.5	94.3	286	91	18.66	15.78	2.79	
. 27	EPR	EPD	13 23 9.84				38	2.7	108.7	68	90	18.49	19.03	0.45	

. OCT H = 20 2 28.83 UTC RMS = 0.15 NO = 11 — FREE DEPTH SOLUTION
. 27 LAT = 36.818 N ERX = 1.9 ERH = 2.9 AVPM = 2.1 Q = D
. LONG = 115.139 W ERY = 2.2 GAP = 273 AVXM = QS = C
. DEPTH = 0.68 KM ERZ = 8.5 KM = QD = D — LAS VEGAS

. 27	NCP	EPU	20 2 44.31				28	2.3	92.2	278	38	15.48	15.57	-0.09	
. 27	JCN	EPU	20 2 45.50				32	2.5	99.0	299	38	16.67	16.67	0.00	
. 27	MCY	IPU	20 2 45.95				47	2.6	103.4	314	38	17.12	17.40	-0.28	
. 27	SDM	EPD	20 2 50.22				33	2.6	128.8	303	38	21.39	21.52	-0.13	
. 27	LSM	IPU	20 2 50.55				35	2.7	129.9	309	38	21.72	21.70	0.02	
. 27	LCP	EPD	20 2 50.85				35	2.7	131.5	315	34	22.02	21.96	0.06	
. 27	COHI	EPU	20 2 52.49				35	2.7	141.7	312	30	23.66	23.41	0.25	
. 27	BGB	EPD	20 2 53.57				38	2.8	150.1	319	30	24.74	24.50	0.29	
. 27	PRN	EPD	20 2 53.98				42	2.9	155.3	3	30	25.07	25.17	-0.10	
. 27	GPR	EPUG	20 2 54.95				34	2.7	157.4	339	30	26.12	25.45	0.67	
. 27	TPU	EPD	20 2 57.67				31	2.6	182.8	346	30	28.84	28.75	0.09	
. 27	HPN	EPD	20 2 57.83				32	2.6	183.2	6	30	29.00	28.80	0.20	

. OCT H = 0 40 33.42 UTC RMS = 0.45 NO = 22 — FREE DEPTH SOLUTION
. 31 LAT = 36.726 N ERX = 0.8 ERH = 1.5 AVPM = 2.5 Q = C
. LONG = 115.932 W ERY = 0.7 GAP = 56 AVXM = QS = C
. DEPTH = 0.79 KM ERZ = 3.1 KM = QD = B — MERCURY

. 31	MCY	EPU	0 40 35.01				47	2.5	7.6	201	38	1.59	1.77	-0.18	
.		ISU2	0 40 37.76									4.34	3.11	1.24	
. 31	SPRG	IPU	0 40 35.30						11.5	108	38	1.88	2.41	-0.52	
. 31	CPX	EPD	0 40 37.30				26	2.0	25.2	333	38	3.84	4.44	-0.76	
. 31	LSM	EPU2	0 40 37.44				38	2.4	39.4	273	38	4.04	5.49	-1.45	
. 31	SSP	EPD	0 40 39.18				37	2.4	33.8	311	38	5.76	6.04	-0.28	
. 31	BGB	EPD	0 40 40.70				33	2.3	43.6	323	34	7.24	7.62	-0.29	
. 31	APX	EPU	0 40 42.78				27	2.2	55.3	145	38	9.36	9.53	-0.16	
. 31	EPN	EPD	0 40 44.50				35	2.4	64.5	327	38	11.08	11.03	0.06	
. 31	GPR	EPD	0 40 45.18				37	2.5	69.0	12	38	11.76	11.76	0.00	
. 31	SHRG	EPU	0 40 46.20				22	2.1	73.7	109	38	12.78	12.52	0.31	
. 31	FRT	EPUG	0 40 52.15				30	2.4	76.3	263	34	18.73	12.95	5.80	
. 31	BMT	EPU	0 40 48.13				38	2.4	81.9	319	38	14.71	13.86	0.86	
. 31	EPR	EPU	0 40 47.71				46	2.7	82.6	53	38	14.29	13.98	0.31	
. 31	TPU	EPD	0 40 50.20				31	2.5	100.8	14	38	16.78	16.93	-0.14	
. 31	PRN	EPD	0 40 52.12				45	2.6	108.9	46	38	18.70	14.25	0.45	
. 31	OSM	EPU	0 40 53.65				33	2.6	119.1	229	34	20.23	19.91	0.32	
. 31	KRNA	EPU	0 40 54.35				24	2.3	120.5	341	34	20.93	20.13	0.80	
. 31	MTI	EPUG	0 40 54.60				32	2.6	120.7	29	34	21.14	19.16	1.22	
. 31	CTS	EPU	0 40 54.51				22	2.2	123.6	325	38	21.09	20.63	0.46	
. 31	GVN	EPU	0 40 54.11				35	2.7	129.4	284	34	20.69	21.59	-0.89	
. 31	GPN	EPD	0 40 55.95				36	2.7	134.3	298	38	22.53	22.38	0.15	
. 31	DLM	EPU	0 40 57.31				35	2.7	144.1	87	30	23.89	23.67	0.22	
. 31	SRG	EPU	0 40 58.15				48	3.0	149.5	31	38	24.71	24.37	0.34	
. 31	MGM	IPDG	0 40 60.28				32	2.7	160.2	300	39	26.84	25.76	1.10	

1980 SOUTHERN GREAT BASIN
LOCAL-EVENT DATA REPORT

OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
31	BMT	EPU4	18 43 11.95				32	2.2	29.6	288	103	7.50	5.28	1.82	
31	SSP	EPD	18 43 9.60				39	2.4	30.9	180	102	5.19	5.48	-0.30	
31	LCP	EPD	18 43 11.40				42	2.5	39.0	174	100	6.95	6.78	0.17	
31	GPR	EPU	18 43 11.51				32	2.3	42.0	70	99	7.06	7.27	-0.21	
31	LSM	EPD4	18 43 12.00				40	2.5	51.8	186	97	7.55	8.83	-1.29	
31	SGV	EPD	18 43 17.79				48	2.6	76.6	251	95	13.30	12.96	0.48	
31	GVN	EPU4	18 43 23.30				29	2.4	102.6	257	94	18.65	17.07	1.77	

OCT M = 19 18 13.53 UTC RMS = 0.28 NO = 8
31 LAT = 37.051 N ERX = 1.7 ERM = 2.0 AVFM = 2.4 Q = B
LONG = 116.165 W ERY = 1.1 GAP = 112 AVXM = QS = B
DEPTH = 12.19 KM ERZ = 1.8 NM = QD = B
FREE DEPTH SOLUTION
SILENT CANYON - YUCCA FLAT

31	BGB	IPD	19 18 16.11				34	2.2	5.7	256	153	2.54	2.37	0.25
									18.7	199	127	1.47	3.33	-1.86
31	SSP	IPU4	19 18 15.00											
31	GLR	EPU4	19 18 14.00				26	2.0	21.1	38	118	0.07	4.20	-3.59
31	LCP	EPU	19 18 18.00				50	2.6	21.8	181	117	4.47	4.31	0.16
31	EPN	EPD	19 18 18.06				40	2.4	23.0	322	116	4.53	4.48	0.05
31	LSM	EPU	19 18 19.55				43	2.5	35.9	195	107	6.02	6.44	-0.42
31	BLT	EP	19 18 21.25				36	2.4	45.7	3	103	7.72	7.98	-0.26
31	SGV	IPU	19 18 26.39				26	2.2	77.6	264	98	12.86	13.08	-0.22
31	GVN	EPU	19 18 31.22				31	2.5	104.9	267	53	17.69	17.35	0.33
31	PRN	EPU	19 18 31.25				29	2.4	106.6	68	53	17.72	17.57	0.14

OCT M = 19 46 11.39 UTC RMS = 0.23 NO = 14
31 LAT = 37.164 N ERX = 0.8 ERM = 1.0 AVFM = Q = C
LONG = 116.219 W ERY = 0.6 GAP = 100 AVXM = QS = B
DEPTH = 7.44 KM ERZ = 2.2 NM = QD = C
FREE DEPTH SOLUTION
SILENT CANYON - YUCCA FLAT

31	CPX	EPU	19 46 16.54						29.7	151	101	5.15	5.28	-0.13
31	BMT	EPD	19 46 17.27						31.0	295	101	5.88	5.47	0.41
31	KRNA	IPD	19 46 22.01						44.6	348	95	10.62	11.22	-0.60
31	CTS	EPD	19 46 23.21						49.3	320	95	11.82	11.67	0.16
31	TPU	EPU	19 46 22.85						70.3	46	95	11.46	11.82	-0.36
31	OCS	EPU	19 46 23.85						72.2	22	95	12.46	12.12	0.34
31	SGV	EPU4	19 46 22.20						75.1	254	94	10.81	12.60	-1.79
31	JCN	EPD	19 46 25.01						81.0	173	94	13.62	13.56	0.06
31	APR	EPD	19 46 26.10						88.0	195	94	14.71	14.70	0.01
31	EPR	EPU	19 46 26.26						91.6	90	94	14.87	15.28	-0.41
31	GPN	EPD4	19 46 28.01						93.6	279	94	16.62	15.61	1.01
31	MTI	EPD	19 46 28.39						101.3	56	93	17.00	16.85	0.36
31	PRN	EPD	19 46 29.55						107.1	75	93	18.16	17.79	0.37
31	MZP	EPD4	19 46 32.27						119.1	309	53	20.88	19.65	1.42
		ESD4	19 46 49.69									38.30	38.06	0.24
31	SMRG	EPD	19 46 30.86						119.9	128	53	19.47	19.74	-0.23
31	NPN	EPD	19 46 32.10						125.8	64	53	20.71	20.53	0.19
31	SPG	EPU	19 46 32.05						129.3	52	53	20.66	20.98	-0.32
31	PPK	EPD4	19 46 37.37						157.5	281	53	25.98	24.00	1.99

NOV M = 23 59 35.63 UTC RMS = 0.03 NO = 5
02 LAT = 37.344 N ERX = 0.4 ERM = 1.0 AVFM = 2.1 Q = D
LONG = 116.984 W ERY = 0.9 GAP = 281 AVXM = QS = C
DEPTH = 9.17 KM ERZ = 5.8 NM = QD = D
FREE DEPTH SOLUTION
THIRSTY CANYON

02	GPN	IPD	23 59 40.19				16	1.6	20.9	259	108	4.56	4.59	-0.03
02	BMT	EPU	23 59 43.10				24	2.0	40.5	100	101	7.47	7.05	0.02
02	SGV	IPU	23 59 42.64				28	2.2	40.5	106	101	7.05	7.05	-0.01
02	GVN	IPU	23 59 44.19				19	1.9	49.6	220	99	8.56	8.51	0.05
02	MZP	EPD4	23 59 46.09				20	1.9	53.0	318	98	10.37	9.06	1.50
02	GLR	EPD4	23 59 52.99				22	2.1	87.2	101	95	17.35	14.58	2.92
02	LSM	EPU	23 59 51.02				24	2.3	92.3	137	95	15.39	15.42	-0.03
02	SCM	EPD4	23 59 54.49				32	2.5	96.5	143	94	18.86	16.09	2.76
02	MCY	EPD4	23 59 52.09				40	2.7	118.4	130	53	16.46	19.39	-2.94

NOV M = 2 17 27.19 UTC RMS = 0.00 NO = 4
03 LAT = 37.532 N ERX = ERM = AVFM = 2.1 Q = C
LONG = 115.310 W ERY = GAP = 130 AVXM = QS = A
DEPTH = 14.73 KM ERZ = NM = QD = D
FREE DEPTH SOLUTION
MIKU

03	MTI	EPD	2 17 30.79				24	2.0	16.4	11	130	3.60	3.40	-0.00
03	PRN	IPD	2 17 32.41				38	2.4	24.8	121	117	5.22	5.22	0.00
03	NPN	IPD4	2 17 34.49				26	2.1	35.6	64	111	7.30	6.52	0.78

9 0 8 1 4 0 2 5 5

1988 SOUTHERN GREAT BASIN
LOCAL-EVENT DATA REPORT

NOV 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
04	APK	EPU4	6 50 17.45				39	2.9	158.7	200	30	26.97	25.47	1.50	
04	SGV	EPU	6 50 22.32				50	3.3	197.7	247	30	31.44	30.53	0.91	
04	PPK	EPD4	6 50 34.15				16	2.5	260.8	264	30	43.27	38.72	4.55	

NOV H = 7 39 51.16 UTC RMS = 0.06 NO = 17
04 LAT = 36.243 N ERX = 0.5 ERH = 1.1 AVFM = 2.7 Q = C
LONG = 117.121 W ERY = 1.9 GAP = 265 AVXM = QS = B
DEPTH = 1.09 KM ERZ = 0.6 NM = QD = D

FREE DEPTH SOLUTION
PANAMINT BUTTE

04	SGV	IPU	7 40 4.93				50	2.8	82.3	6	90	13.77	13.73	0.04
04	LSM	EPU	7 40 6.79				73	3.2	93.9	54	90	15.63	15.62	0.01
04	LCP	EPU	7 40 9.26				66	3.2	109.1	52	90	18.10	18.09	0.01
04	MCY	IPU	7 40 10.00				80	3.3	113.7	46	90	18.84	18.84	-0.00
04	BGB	EPD	7 40 10.85				41	2.8	119.8	42	90	19.69	19.71	0.03
04	CPX	EPU	7 40 11.33				34	2.6	121.8	51	90	20.17	20.16	0.02
04	BMT	EPU	7 40 12.25				39	2.8	126.8	24	90	21.09	20.97	-0.28
04	SPRG	EPU	7 40 12.25				35	2.7	127.7	67	90	21.09	21.12	-0.03
04	EPN	EPD	7 40 12.55				71	3.3	129.2	33	90	21.39	21.36	0.03
04	MGW	EPD	7 40 13.69				8	1.4	137.1	346	53	22.53	22.54	-0.01
04	GLR	EPD	7 40 14.58				27	2.5	144.9	43	53	23.42	23.55	0.03
04	PPK	EPU	7 40 15.19				33	2.7	148.9	332	53	24.03	24.07	-0.04
04	CTS	EPU	7 40 16.57				45	3.0	159.0	13	53	25.41	25.36	0.03
04	BLT	EPU	7 40 16.88				38	2.9	161.3	33	53	25.72	25.68	0.04
04	GMR	EPU	7 40 18.09				12	1.9	170.8	45	53	26.93	26.91	0.02
04	KPNA	EPU	7 40 19.27				50	3.2	179.8	22	53	28.11	28.08	0.03
04	EPR	EPD	7 40 22.01				8	1.6	201.1	59	53	30.85	30.85	0.00
04	PRN	EPD__	7 40 25.10				16	2.2	225.5	55	53	34.02	34.02	0.00

NOV H = 8 6 38.42 UTC RMS = 0.59 NO = 9
04 LAT = 36.650 N ERX = 4.5 ERH = 7.5 AVFM = 2.2 Q = D
LONG = 116.096 W ERY = 5.9 GAP = 210 AVXM = QS = D
DEPTH = 20.92 KM ERZ = 3.1 NM = QD = D

FREE DEPTH SOLUTION
LATHROP WELLS

04	MCY	IPU	8 6 42.57				42	2.4	12.0	84	149	4.15	4.11	0.04	Good qual
04	LSM	IPU	8 6 44.37				49	2.6	18.6	302	137	5.95	4.75	1.20	
04	LCP	IPU	8 6 43.40				41	2.6	23.5	344	130	4.98	5.33	-0.35	
04	CPX	EPD	8 6 43.85				21	1.9	31.1	6	123	5.43	6.33	-0.90	
04	BGB	EPD	8 6 46.65				20	1.9	40.6	345	114	8.23	8.27	0.01	
04	GLR	EPU	8 6 49.05				21	2.0	61.3	7	108	10.63	10.81	-0.03	
04	BMT	EPU	8 6 51.21				21	2.1	80.4	331	53	12.79	13.31	-0.92	
04	GMR	EPU	8 6 52.35				18	1.9	81.2	21	53	13.93	13.42	0.51	
04	SGV	EPU	8 6 51.81				29	2.4	91.3	290	53	13.39	14.73	-1.34	

NOV H = 9 46 15.77 UTC RMS = 0.15 NO = 4
05 LAT = 37.143 N ERX = ERH = AVFM = 2.4 Q = C
LONG = 115.080 W ERY = GAP = 345 AVXM = QS = B
DEPTH = 1.53 KM ERZ = NM = QD = D

FREE DEPTH SOLUTION
ALAMO

05	MCY	EPU	9 46 32.44				33	2.5	101.0	238	38	16.67	16.81	-0.15
05	LOP	EPU	9 46 33.72				24	2.3	108.7	253	39	17.95	18.07	-0.12
05	LSM	EPU	9 46 36.15				24	2.3	121.9	246	38	20.38	20.21	0.17
05	SDM	EPU	9 46 37.70				28	2.5	131.4	245	38	21.93	21.76	0.17

NOV H = 5 52 31.89 UTC RMS = 0.15 NO = 6
06 LAT = 36.796 N ERX = 1.9 ERH = 2.3 AVFM = 1.6 Q = D
LONG = 115.996 W ERY = 1.3 GAP = 191 AVXM = QS = C
DEPTH = 1.77 KM ERZ = 254.2 NM = QD = D

FREE DEPTH SOLUTION
MERCURY

06	MCY	EPU	5 52 34.70				24	1.9	15.2	169	90	2.81	2.82	-0.01
06	CPX	EPU	5 52 34.70				11	1.3	15.8	339	90	2.81	2.93	-0.11
06	LCP	EPU	5 52 34.80				24	1.9	16.8	293	90	2.91	3.08	-0.17
06	SPRG	EPD4	5 52 38.79				11	1.3	20.0	124	90	6.90	3.60	3.30
06	LSM	EPD	5 52 36.25				30	2.2	25.6	256	90	4.34	6.52	-0.15
06	CCM1	EPD	5 52 37.34				11	1.3	29.8	244	90	5.45	5.19	0.26
06	BGB	EPD	5 52 38.10				14	1.5	34.0	322	90	6.21	5.88	0.39

NOV H = 10 41 21.81 UTC RMS = 0.07 NO = 6
06 LAT = 36.712 N ERX = 0.3 ERH = 0.8 AVFM = 1.5 Q = C
LONG = 115.931 W ERY = 0.8 GAP = 126 AVXM = QS = C
DEPTH = 2.80 KM ERZ = 6.8 NM = QD = B

FREE DEPTH SOLUTION
MERCURY

06	MCY	IPD	10 41 23.23				32	2.2	6.2	206	165	1.42	1.39	0.03

90814 0256

NOV 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
DEPTH = 5.00 KM			ERZ =		NM =						GO = D				
09	MCY	EPD	13 54 38.55						26	2.0	13.2	160	105	2.58	2.48	0.00
09	LOP	EPU	13 54 39.05						18	1.7	16.4	303	102	3.08	3.08	0.01
09	LSM	EPD	13 58 40.15						20	1.8	23.4	261	99	4.19	4.19	-0.01

NOV M = 1 03 51.42 UTC RMS = 0.00 NO = 3 — FIXED DEPTH SOLUTION
11 LAT = 36.738 N ERX = ERM = AVFM = 1.6 Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.235 W ERY = GAP = 162 AVXM = QS = A — LATHROP WELLS
DEPTH = 5.00 KM ERZ = NM = QD = D

11	LSM	IPD	1 03 52.59						21	1.8	3.3	271	142	1.17	1.17	-0.00
11	LCP	EPD	1 03 54.19						15	1.5	14.2	25	104	2.73	2.73	0.00
11	MCY	EPU	1 03 56.01						16	1.6	25.8	109	98	4.59	4.59	-0.00

NOV M = 8 33 4.01 UTC RMS = 0.36 NO = 19 — FIXED DEPTH SOLUTION
11 LAT = 37.302 N ERX = 1.1 ERM = 1.4 AVFM = 2.8 Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.466 W ERY = 0.9 GAP = 81 AVXM = QS = C — SILENT CANYON - NORTH
DEPTH = 4.76 KM ERZ = 3.1 NM = QD = C

11	BPT	IPD4	8 33 15.00						60	2.7	6.4	251	120	10.99	1.52	9.07
11	EPN	IPU	8 33 7.32						72	2.9	16.0	128	102	3.31	3.00	0.32
11	BLT	IPD	8 33 9.85						56	2.7	34.2	59	95	5.04	5.94	-0.10
11	BGB	IPU	8 33 10.22						41	2.5	36.2	144	95	6.21	6.20	0.01
11	CTS	IPU4	8 33 8.45						55	2.8	44.0	329	94	4.44	7.52	-3.07
11	SSP	IPD	8 33 12.17								47.3	152	94	6.16	8.06	0.11
11	CPX	IPD	8 33 12.97						36	2.4	55.0	139	93	8.96	9.32	-0.35
11	LOP	EPU	8 33 13.15						65	3.0	56.4	152	93	9.14	9.53	-0.39
11	BRD	IPD	8 33 14.12						50	2.7	61.5	193	93	10.11	10.37	-0.26
11	GPR	EPU	8 33 14.00						41	2.6	61.7	87	93	9.99	10.40	-0.41
11	LSM	EPU	8 33 15.21						72	3.1	64.8	165	93	11.20	10.91	0.29
11	OCS	EPU	8 33 15.52						40	2.6	70.9	43	93	11.51	11.90	-0.39
11	SDM	EPD4	8 33 17.61						51	2.8	73.8	171	92	13.60	12.36	1.24
11	TPU	EPD2	8 33 17.92						53	2.9	79.7	65	92	13.91	13.32	0.60
11	RVE	EPU4	8 33 15.45						39	2.6	83.2	17	92	11.44	13.90	-2.45
11	MCY	EPD4	8 33 17.00						67	3.1	84.1	168	92	12.99	14.03	-1.04
11	MGM	EPD	8 33 18.73						41	2.7	92.5	280	92	14.72	15.41	-0.69
11	APR	EPD4	8 33 21.61						52	2.9	100.4	180	92	17.60	16.69	0.91
11	JCM	EPD2	8 33 21.40						48	2.8	101.0	161	92	17.39	16.79	0.60
11	MCA	IPD2	8 33 21.70						39	2.7	102.6	225	92	17.69	17.05	0.64
11	TNP	EP	8 33 22.40						50	2.9	109.0	323	92	18.39	15.10	0.29
11	MTI	EPD	8 33 23.11						42	2.8	113.4	69	92	19.10	18.81	0.49
11	PRN	IPD	8 33 25.10						60	3.1	125.9	85	53	21.09	20.81	0.29
11	PPK	EPD4	8 33 26.30						40	2.8	128.4	276	53	22.37	21.12	1.25
11	WPN	EPU	8 33 26.89						79	3.4	140.7	74	53	22.88	22.72	0.16
11	SMRG	EPU2	8 33 28.44						41	2.9	146.6	127	53	24.43	23.44	0.99
11	DLM	EPD4	8 33 29.90						40	2.9	156.4	78	53	25.89	24.76	1.13

NOV M = 11 4 59.01 UTC RMS = 0.43 NO = 11 — FREE DEPTH SOLUTION
11 LAT = 37.279 N ERX = 1.1 ERM = 2.1 AVFM = 2.3 Q = C
LONG = 116.507 W ERY = 1.7 GAP = 111 AVXM = QS = C — THIRSTY CANYON
DEPTH = 9.03 KM ERZ = 8.4 NM = QD = B

11	EPN	IPD	11 5 2.78						45	2.5	17.0	114	114	3.77	3.50	0.26
11	BGB	IPD	11 5 5.02						29	2.2	36.5	137	102	6.01	6.41	0.45
11	BLT	EPD	11 5 5.30						29	2.2	38.7	58	101	6.29	6.76	-0.47
11	CTS	IPU	11 5 7.37						30	2.2	44.5	334	100	8.36	7.68	0.67
11	KPNA	EPU	11 5 7.50						30	2.3	53.5	12	98	8.49	9.13	-0.64
11	CPX	EPD	11 5 8.39						15	1.7	55.7	134	98	9.38	9.49	-0.11
11	LSM	EPU3	11 5 9.00						35	2.4	63.5	161	97	9.99	10.75	-0.76
11	GPR	EPU	11 5 10.00						23	2.1	65.6	85	97	10.99	11.08	-0.09
11	GPN	IPD	11 5 10.47						35	2.5	66.7	272	96	11.46	11.27	0.18
		ISD	11 5 18.45											19.44	19.73	-0.29
11	SDM	EPD4	11 5 13.50						31	2.4	71.9	168	96	14.49	12.10	2.38
11	GVN	EPU4	11 5 14.31						28	2.3	80.4	247	95	15.30	13.48	1.82
11	MCY	EPD4	11 5 11.10						31	2.4	84.0	145	95	12.09	14.06	-1.97
11	PPN	EPD3	11 5 20.92						28	2.5	130.0	84	53	21.91	20.92	0.99

NOV M = 12 36 13.42 UTC RMS = 0.00 NO = 3 — FIXED DEPTH SOLUTION
11 LAT = 36.790 N ERX = ERM = AVFM = 2.0 Q = C — DEPTH CONTROL INADEQUATE
LONG = 116.248 W ERY = GAP = 130 AVXM = QS = A — LATHROP WELLS
DEPTH = 5.00 KM ERZ = NM = QD = D

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1980 SOUTHERN GREAT BASIN
LOCAL-EVENT DATA REPORT

NOV 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	SMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
14	BCS	EPD	17 15 40.50						75.4	3	38	12.99	12.80	0.20	
14	FPT	EPD4	17 15 50.41				253	4.2	80.1	235	39	20.90	14.85	6.15	
14	PRN	IPU	17 15 50.39				295	4.4	88.6	67	38	14.68	14.93	-0.85	
14	APR	EPD	17 15 50.10						89.2	211	38	14.59	15.04	-0.45	
14	HTI	EPD4	17 15 51.31				268	4.3	89.5	63	38	15.80	15.08	0.92	
14	APK	EPU	17 15 51.35				290	4.4	92.3	158	38	15.84	15.54	0.30	
14	SPRG	EPU	17 15 51.93				247	4.3	97.1	132	38	16.42	16.33	0.14	
14	NOP	EPU	17 15 53.50						100.4	189	38	17.99	18.09	-0.10	
14	NPN	EPU2	17 15 54.70				231	4.2	110.4	56	38	19.19	18.49	0.71	
14	OLM	EPD4	17 15 57.05				273	4.4	122.9	62	38	21.54	20.51	1.03	
14	GVN	EPU4	17 15 57.06				253	4.4	123.0	265	38	21.55	20.54	1.02	
14	MCA	EPU2	17 15 57.32				240	4.3	127.1	247	38	21.81	21.20	0.61	
14	GSM	EPD4	17 16 0.67						140.7	213	38	25.16	24.26	0.90	
14	PPK	EPU	17 16 3.50				247	4.5	176.2	282	38	27.99	27.84	0.15	

NOV M = 3 15 6.81 UTC RMS = 0.08 NO = 16 — FREE DEPTH SOLUTION
19 LAT = 37.138 N ERX = 0.2 ERM = 0.3 AVFM = 2.3 Q = B
LONG = 116.591 W ERY = 0.2 GAP = 89 AVXM = QS = A — THIRSTY CANYON
DEPTH = 16.11 KM ERZ = 0.6 NM = QD = B

19	BPT	IPU4	3 15 11.19			43	2.5	17.3	17	131	2.38	4.86	-2.07	
19	EPN	IPD	3 15 13.83			70	2.9	25.3	78	121	5.02	5.12	-0.09	
19	BGB	IPU	3 15 15.07			36	2.4	34.0	108	114	6.26	6.38	-0.06	
19	CDM1	IPD	3 15 15.83			26	2.1	39.8	141	111	7.02	7.12	-0.09	
19	CDMS	EPD4	3 15 20.88			9	1.2	39.8	141	111	12.07	7.12	4.96	
19	SSP	IPU	3 15 16.20					40.5	125	110	7.39	7.35	0.04	
19	SGV	IPD	3 15 16.55			29	2.2	42.0	247	109	7.74	7.70	0.04	
19	LDP	EPU	3 15 17.57			50	2.7	48.9	130	107	8.76	8.65	0.12	
19	LSM	EPU	3 15 17.62			49	2.7	52.3	147	106	8.81	9.18	-0.37	
19	BLT	EPD	3 15 18.58			29	2.2	54.7	46	105	9.69	9.50	0.20	
		ESD	3 15 25.44								16.63	15.62	0.01	
19	CIB	IPU	3 15 18.67			38	2.3	57.4	348	106	9.86	9.97	-0.11	
19	SDM	EPD	3 15 19.00			35	2.4	58.6	157	104	10.19	10.19	-0.00	
19	GPN	EPU4	3 15 24.84			21	2.0	62.1	287	103	16.03	10.73	5.30	
19	GVN	IPU	3 15 20.53			30	2.3	68.0	258	102	11.72	11.73	-0.00	
		ISU	3 15 29.19								20.58	20.52	0.07	
19	KPNA	EPD	3 15 20.95			40	2.6	70.8	15	102	12.14	12.11	0.04	
19	MCY	EPU	3 15 21.80			48	2.8	76.8	133	101	12.99	13.06	-0.06	
19	MGM	EPU	3 15 23.45			16	1.8	87.2	293	53	14.64	14.67	-0.02	

NOV M = 8 43 56.49 UTC RMS = 0.20 NO = 14 — FIXED DEPTH SOLUTION
19 LAT = 37.219 N ERX = 0.5 ERM = 0.9 AVFM = 2.4 Q = C — DEPTH CONTROL INADEQUATE
LONG = 115.635 W ERY = 0.7 GAP = 107 AVXM = QS = C — GROOM LAKE
DEPTH = 5.00 KM ERZ = 21.6 NM = QD = C

19	GLR	EPU	8 44 2.46					34.1	266	96	5.97	5.92	0.20	
19	EPR	EPU	8 44 3.21			39	2.5	40.2	98	95	6.72	6.91	-0.19	
19	BLT	EPD	8 44 4.97					51.9	301	94	8.48	8.80	-0.32	
19	PRN	IPD	8 44 6.16			29	2.3	55.9	46	93	9.65	9.45	0.20	
19	BGB	EPD4	8 44 6.59			22	2.0	56.6	289	93	10.10	9.55	0.60	
19	EPN	EPD	8 44 7.06					61.2	269	93	10.57	10.32	0.25	
								62.4	229	93	10.82	10.51	0.31	
19	LDP	EPD	8 44 7.31			46	2.7	68.8	205	93	11.41	11.50	-0.08	
19	MCY	EPU	8 44 7.90			19	1.9	72.7	237	93	13.12	12.19	0.93	
19	CDM1	EPD4	8 44 9.61			44	2.7	77.9	227	92	12.91	13.03	-0.11	
19	LSM	EPD	8 44 9.80			38	2.6	78.3	52	92	13.01	13.09	-0.08	
19	NPN	EPD	8 44 9.50			22	2.1	80.0	275	92	14.07	13.38	0.29	
19	BPT	EPU	8 44 10.56			34	2.5	88.4	312	92	14.73	14.74	-0.01	
19	KRNA	EPD	8 44 11.22								25.26	25.80	-0.54	
		ESD	8 44 21.75			37	2.6	89.8	34	92	14.93	14.83	0.10	
19	SRG	EPD	8 44 11.82					89.4	225	92	16.41	14.90	1.51	
19	SDM	EPD4	8 44 12.90			31	2.4	96.1	206	92	15.71	15.99	-0.28	
19	JDM	EPU	8 44 12.20			34	2.6	129.7	201	53	23.49	21.27	2.22	
19	NOP	EPD4	8 44 19.98											

NOV M = 9 2 41.18 UTC RMS = 0.17 NO = 5 — FREE DEPTH SOLUTION
19 LAT = 36.613 N ERX = 3.4 ERM = 3.8 AVFM = 1.8 Q = D
LONG = 116.250 W ERY = 1.8 GAP = 207 AVXM = QS = C — LATHROP WELLS
DEPTH = 9.18 KM ERZ = 9.2 NM = QD = D

19	LSM	IPU	9 2 44.04			25	2.0	14.1	352	120	2.46	2.97	-0.11	
19	JDM	IPU	9 2 45.45			18	1.7	23.3	146	109	4.27	4.34	-0.07	
19	MCY	IPU	9 2 46.08			30	2.2	26.3	78	107	4.90	4.81	0.09	
19	BGB	EPU	9 2 49.63			12	1.5	47.2	2	99	8.45	8.12	0.38	

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1989 SOUTHERN GREAT BASIN
LOCAL-EVENT DATA REPORT

NOV 1989	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS

NOV M = 22 6 32.31 UTC RMS = 0.24 NO = 16
22 LAT = 36.535 N ERX = 1.0 ERM = 1.5 AVFM = 1.9 Q = C
LONG = 115.415 W ERY = 1.0 GAP = 120 AVXM = QS = C
DEPTH = 9.37 KM ERZ = 7.3 NM = QD = C

FREE DEPTH SOLUTION
MERCURY

22	MCY	IPU	22	6	36.00	29	2.1	19.3	317	113	3.69	3.74	-0.06		
22	JON	EPD	22	6	37.07	18	1.7	27.9	268	104	4.76	5.06	-0.31		
22	APK	IPD	22	6	38.55			32.2	138	104	6.24	5.74	0.50		
22	LSM	EPD	22	6	40.51	23	2.0	46.7	299	100	8.20	8.06	0.14		
22	LOP	IPD	22	6	40.62	24	2.1	47.4	316	99	8.31	8.17	0.14		
22	LOP	IPD	22	6	40.62	20	2.1	47.4	316	99	8.31	8.17	0.14		
22	SDM	EPU	22	6	40.70	19	1.9	48.8	285	99	8.39	8.32	0.06		
22	CPX	EPD	22	6	40.76			48.8	336	99	8.45	8.39	0.05		
22	NGP	EPU	22	6	41.38	12	1.5	56.4	214	99	9.03	9.28	-0.26		
22	SMRG	IPU	22	6	41.99			59.2	93	99	9.64	10.04	-0.38		

NOV M = 1 11 46.51 UTC RMS = 0.23 NO = 7
23 LAT = 37.170 N ERX = 2.9 ERM = 3.2 AVFM = 2.1 Q = D
LONG = 116.682 W ERY = 1.6 GAP = 216 AVXM = QS = C
DEPTH = 6.57 KM ERZ = 4.2 NM = QD = D

FREE DEPTH SOLUTION
DELAMAR MOUNTAINS

23	PRN	EPU	1	11	52.11	32	2.3	41.9	309	94	7.60	7.18	0.42		
23	EPR	EPD	1	11	52.02	34	2.3	46.8	270	94	7.51	7.66	-0.15		
23	OLM	EPD	1	11	52.54	20	1.9	48.6	354	93	8.03	8.27	-0.24		
23	NPN	EPD	1	11	54.40	22	2.0	59.1	337	93	9.89	9.81	0.08		
23	MTI	EPU4	1	11	58.40	32	2.4	76.8	317	92	13.89	12.85	1.24		
23	SMRG	EPD	1	11	58.80	13	1.7	85.1	210	92	14.29	14.21	0.13		
23	SRG	EPD4	1	12	0.10	28	2.3	86.1	337	92	15.59	14.36	1.23		
23	TPU	EPU	1	12	0.51	22	2.2	98.7	299	92	16.00	16.36	-0.35		
23	MCY	EPD	1	12	5.61	18	2.1	127.3	244	53	21.10	21.01	0.09		
23	LCP	EPD4	1	12	9.01	16	1.9	136.7	255	53	24.50	22.24	2.26		
23	SSP	EPD4	1	12	11.11	17	2.1	139.5	259	53	26.60	22.59	4.01		
23	LSM	EPU4	1	12	9.81	14	1.9	149.4	251	53	25.30	23.88	1.42		
23	JCN	EPU4	1	12	10.52	15	2.0	150.6	237	53	26.01	24.02	1.99		
23	SCM	EPU4	1	12	15.65	16	2.1	158.7	248	53	31.34	25.09	6.25		

NOV M = 2 57 24.19 UTC RMS = 0.16 NO = 12
23 LAT = 36.526 N ERX = 0.5 ERM = 0.7 AVFM = 2.3 Q = C
LONG = 115.545 W ERY = 0.5 GAP = 94 AVXM = QS = C
DEPTH = 0.36 KM ERZ = 20.5 NM = QD = C

FREE DEPTH SOLUTION
MERCURY

23	APK	EP	2	57	28.61	27	2.1	23.1	187	38	4.42	4.38	0.04		
23	SPRG	EPU1	2	57	29.20	27	2.1	30.1	308	38	5.01	5.53	-0.51		
23	SMRG	EPU	2	57	30.38	25	2.0	35.0	94	38	6.19	6.32	-0.08		
23	MCY	IPU	2	57	31.07	46	2.6	40.2	292	38	6.88	7.17	-0.29		
23	CPX	EPU	2	57	35.30	15	1.7	60.1	314	38	11.11	11.04	0.07		
23	LCP	EPU	2	57	35.50	39	2.5	66.5	303	38	11.31	11.44	-0.13		
23	LSM	EPU	2	57	35.95	48	2.6	69.2	290	38	11.76	11.88	-0.12		
23	SCM	EPU	2	57	36.50	23	2.1	72.2	291	38	12.31	12.37	-0.06		
23	GLR	EPD	2	57	38.75	20	2.0	85.8	331	38	14.56	14.58	0.13		
23	BRO	EPU4	2	57	41.71	9	1.8	100.2	285	38	17.52	16.92	0.60		
23	PRN	EPU4	2	57	43.11	32	2.5	107.2	24	39	18.92	18.87	0.05		
23	BMT	EPU	2	57	45.24	34	2.6	121.8	314	38	21.05	20.83	0.22		
23	MTI	EPU	2	57	46.15	25	2.4	130.0	11	38	21.96	21.76	0.40		
23	NPN	EPU8	2	57	47.57	31	2.6	136.2	23	38	23.38	22.75	0.63		
23	SGV	EPD4	2	57	48.55	33	2.7	142.0	291	38	24.36	23.50	0.86		
23	GVN	EPU4	2	57	53.00	35	2.8	168.9	288	38	28.81	26.99	1.82		
23	MZP	EPD4	2	57	53.74	15	2.2	209.0	309	38	29.55	32.21	-2.66		

NOV M = 4 48 24.68 UTC RMS = 0.22 NO = 12
23 LAT = 36.531 N ERX = 0.4 ERM = 0.6 AVFM = 2.3 Q = C
LONG = 115.554 W ERY = 0.5 GAP = 90 AVXM = QS = C
DEPTH = 0.31 KM ERZ = 9.0 NM = QD = C

FREE DEPTH SOLUTION
MERCURY

23	APK	EPD	4	48	33.05	23	1.9	23.5	188	38	4.45	4.46	-0.02		
23	SPRG	EPU4	4	48	35.23	23	2.0	29.2	308	38	6.63	5.38	1.25		
23	SMRG	EPD	4	48	34.95	20	1.9	35.9	95	38	6.35	6.47	-0.07		
23	MCY	IPU	4	48	35.30	37	2.4	39.3	292	38	6.70	7.03	-0.33		
23	JCN	EPU	4	48	37.45	30	2.3	50.2	258	38	8.85	8.80	0.05		
23	CPX	EPD	4	48	39.50	15	1.7	61.1	314	38	10.90	10.90	-0.00		
23	LCP	EPD	4	48	39.90	30	2.3	65.5	303	38	11.30	11.29	0.00		
23	LSM	EPU3	4	48	39.80	29	2.3	68.3	290	38	11.20	11.74	-0.54		
23	SCM	EPU	4	48	40.80	25	2.2	71.3	280	38	12.20	12.23	-0.04		
23	NPN	EPU4	4	48	48.21	35	2.6	167.1	25	38	19.61	18.05	1.55		
23	BMT	EPD4	4	48	50.80	33	2.6	120.8	314	38	22.20	20.29	1.51		

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1980 SOUTHERN GREAT BASIN
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NOV 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
NOV M = 11 12 45.06 UTC RMS = 0.07 NO = 5 26 LAT = 36.150 N ERX = 2.3 ERM = 5.7 AVFM = 2.6 Q = D LONG = 117.505 W ERY = 5.3 GAP = 285 AVXM = QS = D DEPTH = 5.00 KM ERZ = 3.6 NM = QD = D															FIXED DEPTH SOLUTION DEPTH CONTROL INADEQUATE DARWIN
26	BGV	EPD	11 13 1.60						30	2.6	100.7	25	92	16.74	16.74	0.01
26	LCM	EPD	11 13 4.95						35	2.6	120.2	354	92	19.89	19.91	-0.02
26	GPM	EPU4	11 13 7.21						8	1.4	128.6	10	53	22.15	21.14	1.02
26	BPT	EPU	11 13 9.62						29	2.6	152.1	35	53	24.56	24.18	-0.02
26	CPX	EPD3	11 13 10.00						41	2.9	155.3	57	53	24.94	24.60	0.35
26	SPRG	EPD	11 13 10.45						42	2.9	163.3	69	53	25.59	25.68	-0.08
26	SMRG	EPD4	11 13 10.49						12	2.0	214.5	86	53	33.43	32.29	1.20
NOV M = 11 24 33.94 UTC RMS = 0.12 NO = 5 26 LAT = 37.514 N ERX = 2.6 ERM = 3.3 AVFM = 1.9 Q = D LONG = 116.343 W ERY = 1.9 GAP = 175 AVXM = QS = C DEPTH = 5.00 KM ERZ = 43.0 NM = QD = D															FIXED DEPTH SOLUTION DEPTH CONTROL INADEQUATE QUARTZITE MOUNTAIN
26	BLT	EPU	11 24 37.45						14	1.5	19.3	108	100	3.51	3.56	-0.03
26	ARNA	EPU4	11 24 39.35						15	1.6	26.4	353	97	5.41	4.69	0.72
26	BPT	EPD0	11 24 39.53						30	2.2	30.6	213	96	5.59	5.36	-0.17
26	EPN	EPU2	11 24 40.00						30	2.2	33.3	177	96	6.06	5.79	0.27
26	CTS	EPU	11 24 40.32						12	1.4	36.6	293	95	6.38	6.33	0.05
26	SGV	EPD0	11 24 40.03						30	2.4	85.1	226	92	14.09	14.20	-0.11
26	SPRG	EPU4	11 24 51.52						26	2.3	102.6	152	92	17.58	17.05	0.53
NOV M = 10 15 13.36 UTC RMS = 0.25 NO = 8 27 LAT = 36.438 N ERX = 1.8 ERM = 3.6 AVFM = 3.0 Q = C LONG = 115.562 W ERY = 3.4 GAP = 116 AVXM = QS = C DEPTH = 4.49 KM ERZ = 28.9 NM = QD = C															FREE DEPTH SOLUTION CHARLESTON PEAK
27	APK	EPU	10 15 15.93						24	1.9	13.1	185	103	2.57	2.56	0.03
27	SPRG	EPU	10 15 19.21						22	1.9	36.1	322	95	5.85	6.24	-0.39
27	SMRG	EPD	10 15 19.75						27	2.1	37.2	78	94	6.39	6.01	0.03
27	MCY	EPU	10 15 20.76						27	2.1	43.7	305	94	7.40	7.47	-0.07
27	JON	EPU	10 15 21.20						20	1.9	48.6	270	93	7.84	8.26	-0.43
27	CPX	EPU	10 15 25.32						14	1.7	70.3	321	92	11.96	11.80	0.16
27	LCP	EPU	10 15 25.43						24	2.1	71.3	310	92	12.07	11.95	0.12
27	LSM	EPD4	10 15 26.43						21	2.0	71.8	290	92	13.07	12.04	1.03
27	SDM	EPD	10 15 26.28						17	1.8	73.3	288	92	12.92	12.28	0.63
27	SSP	EPU4	10 15 28.22						23	2.1	79.8	313	92	14.86	13.35	1.51
27	SGV	EPU4	10 15 30.29						32	2.6	144.6	295	53	24.93	23.26	1.67
NOV M = 22 2 2.34 UTC RMS = 0.00 NO = 4 27 LAT = 36.871 N ERX = ERM = AVFM = 1.6 Q = C LONG = 116.245 W ERY = GAP = 216 AVXM = QS = A DEPTH = 6.31 KM ERZ = NM = QD = D															FREE DEPTH SOLUTION LATHROP WELLS
27	SSP	IPD	22 2 4.02						16	1.6	6.8	21	130	1.68	1.68	0.00
27	LCP	IPU	22 2 4.11						18	1.7	7.1	105	127	1.77	1.77	-0.00
27	MCY	EPD	22 2 8.33						19	1.8	34.3	133	98	5.99	5.98	0.00
27	JON	EPU	22 2 10.78						9	1.2	69.5	165	95	8.44	8.44	-0.00
NOV M = 11 8 20.10 UTC RMS = 0.19 NO = 6 28 LAT = 36.856 N ERX = 3.1 ERM = 3.5 AVFM = 1.6 Q = D LONG = 115.936 W ERY = 1.7 GAP = 227 AVXM = QS = C DEPTH = 1.07 KM ERZ = 310.2 NM = QD = D															FREE DEPTH SOLUTION MERCURY
28	LCP	EPU	11 8 23.92						19	1.8	20.6	269	38	3.82	3.83	-0.01
28	MCY	EPD	11 8 24.00						20	1.8	21.7	186	38	3.90	4.01	-0.11
28	SSP	EPD	11 8 24.51						12	1.4	26.3	297	38	4.41	4.76	-0.35
28	LSM	EPD	11 8 26.00						20	1.8	32.6	247	38	5.90	5.79	0.11
28	JON	EPU	11 8 28.00						10	1.3	40.5	198	38	8.50	8.37	0.13
28	EPN	EPD	11 8 29.39						11	1.4	52.6	319	38	9.29	9.04	0.25
NOV M = 4 56 53.97 UTC RMS = 0.03 NO = 5 29 LAT = 36.760 N ERX = 0.4 ERM = 0.5 AVFM = 1.6 Q = C LONG = 116.273 W ERY = 0.3 GAP = 198 AVXM = QS = A DEPTH = 3.50 KM ERZ = 0.7 NM = QD = D															FREE DEPTH SOLUTION LATHROP WELLS
29	LSM	IPD	4 56 54.65						25	1.9	2.4	176	138	0.88	0.88	0.00
29	SDM	EPD	4 56 56.20						11	1.3	10.0	206	98	2.63	2.65	-0.01
29	LCP	EPU	4 56 56.25						18	1.7	10.1	42	98	2.68	2.66	0.02

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
		ESU	6 31 15.40									12.47	12.34	0.13	

DEC M = 0 40 35.65 UTC RMS = 0.23 NO = 11 — FREE DEPTH SOLUTION
04 LAT = 38.289 N ERX = 2.2 ERM = 4.2 AVFM = 3.0 Q = D
LONG = 117.196 W ERY = 3.6 GAP = 204 AVXM = QS = C TONOPAH
DEPTH = 6.39 KM ERZ = 3.3 NM = QD = D

04	MZP	EPD	0 40 46.06	34	2.8	67.3	194	94	10.01	11.33	-0.33			
04	SVP	EPU	0 40 49.75	40	2.6	83.0	220	93	14.10	13.96	0.09			
04	GPN	EPD	0 40 54.25	46	2.8	109.9	183	92	18.60	18.24	0.36			
04	SEV	EPD	0 40 58.06	45	2.9	145.9	174	93	23.21	23.24	-0.03			
04	TPU	EPD	0 41 0.13	41	2.9	155.8	119	53	24.48	24.53	-0.05			
04	CLR	IPD	0 41 0.62	37	2.8	159.5	139	53	24.97	25.01	0.12			
04	BGB	EPD	0 41 1.20	47	3.0	163.0	148	53	25.55	25.47	0.13			
04	CDM1	EPD	0 41 2.60	43	3.0	176.5	154	53	26.95	27.22	-0.27			
04	HTI	EPD	0 41 3.40	48	3.1	182.1	112	53	27.75	27.95	0.01			
04	SRG	IPU	0 41 5.06	59	3.3	192.1	194	53	29.41	29.24	0.17			
04	NPN	EPU	0 41 7.10	57	3.4	219.6	110	53	31.45	31.65	-0.20			

DEC M = 6 46 35.11 UTC RMS = 0.09 NO = 10 — FREE DEPTH SOLUTION
06 LAT = 37.374 N ERX = 0.5 ERM = 0.6 AVFM = 2.6 Q = B
LONG = 115.127 W ERY = 0.3 GAP = 119 AVXM = QS = A ALANO
DEPTH = 5.20 KM ERZ = 1.8 NM = QD = B

06	PRN	IPD	6 46 36.90	65	2.8	7.8	62	118	1.79	1.76	0.03			
06	EPR	EPD	6 46 39.22	68	2.8	23.4	193	94	4.11	4.28	-0.09			
06	APN	EPD	6 46 41.10	38	2.8	35.[illegible]	29	96	5.99	6.10	-0.11			

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
06	HTI	EPU	6 46 41.12	33	2.3	35.9	339	96	6.01	6.22	-0.01				
06	DLM	EPU	6 46 42.50	27	2.1	42.9	53	95	7.39	7.35	0.04				
06	TPU	EPD	6 46 46.07	31	2.3	52.8	299	94	8.96	8.95	0.01				
06	SMRG	EPU	6 46 51.20	37	2.6	96.6	181	92	16.09	16.07	0.07				
		ESD6	6 47 6.19						31.08	24.03	3.05				
06	SPRG	EPU	6 46 51.17	41	2.7	96.9	219	92	16.06	16.12	-0.06				
06	EPN	EPU2	6 46 54.00	46	2.8	107.5	260	92	18.89	17.85	1.04				
06	MCY	EPD	6 46 53.40	44	2.8	108.5	223	92	18.29	18.01	0.28				
06	LOP	EPU4	6 46 54.67	42	2.8	109.0	230	92	19.56	18.09	1.47				
06	SSP	EPD4	6 46 54.40	43	2.8	109.1	243	92	19.29	18.10	1.19				
06	KRNA	EPU	6 46 54.95	38	2.7	118.3	291	92	19.84	19.60	0.24				
06	LSM	EPD	6 46 56.44	45	2.9	123.8	235	53	21.33	20.49	0.85				

DEC M = 20 5 13.69 UTC RMS = 0.02 NO = 3 — FIXED DEPTH SOLUTION
08 LAT = 36.794 N ERX = ERM = AVFM = 1.5 Q = C DEPTH CONTROL INADEQUATE
LONG = 115.480 W ERY = GAP = 157 AVXM = QS = A HATFORD PEAK
DEPTH = 5.00 KM ERZ = NM = QD = D

08	EPR	EPU	20 5 22.03	16	1.7	49.1	32	94	8.34	8.36	-0.02			
08	APK	EPU	20 5 22.72	10	1.3	53.3	189	94	9.03	9.04	-0.01			
08	CPX	EPU	20 5 22.81	12	1.5	53.6	286	94	9.12	9.09	0.03			

DEC M = 19 34 47.37 UTC RMS = 0.28 NO = 12 — FREE DEPTH SOLUTION
10 LAT = 38.214 N ERX = 1.8 ERM = 4.3 AVFM = 2.7 Q = D
LONG = 117.235 W ERY = 3.9 GAP = 249 AVXM = QS = C TONOPAH
DEPTH = 0.10 KM ERZ = 11.9 NM = QD = D

10	KRNA	EPD	19 35 3.08	37	2.6	91.0	124	38	15.63	15.48	0.15			
10	RVE	EPD	19 35 3.15	30	2.4	94.0	103	38	15.78	15.97	-0.19			
10	GPN	EPD	19 35 4.14	30	2.4	101.5	181	38	16.77	17.18	-0.41			
10	PPK	EPD	19 35 5.12	25	2.3	105.6	214	38	17.75	17.85	-0.10			
10	LCM	EPD	19 35 6.93			110.6	198	38	19.56	19.32	0.24			
10	BPT	EPU	19 35 7.82	42	2.8	120.4	149	38	20.45	20.26	-0.21			
10	OCS	EPU	19 35 8.95	28	2.5	126.0	113	39	21.58	21.17	0.41			
10	BLT	EPU	19 35 9.05	42	2.8	127.9	131	38	21.68	21.49	0.19			
10	GVM	IPU4	19 35 10.61	32	2.6	138.9	184	38	23.24	22.62	0.62			
10	SGV	EPU	19 35 10.82	35	2.7	138.0	173	38	23.45	23.04	0.41			
10	TPU	EPU	19 35 12.40	39	2.9	155.0	116	38	25.07	25.25	-0.18			
		ESU4	19 35 33.11						45.74	44.19	1.55			
10	BRO	EPU4	19 35 15.81	38	2.7	169.8	161	38	28.44	27.18	1.26			
10	HTI	EPD	19 35 15.69	37	2.9	182.6	109	38	29.32	29.64	-0.31			
10	NPN	EPD	19 35 19.44	46	3.2	211.5	107	38	32.07	32.59	-0.52			

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DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
14	TPU	EPU	6 6 16.00				32	2.5	111.9	60	91	18.59	18.57	0.02	
		ESU	6 6 30.45									32.26	32.50	-0.24	
14	BSM	EPU	6 6 20.21				28	2.5	127.1	185	53	22.00	20.99	1.01	
		ESU	6 6 34.05									36.66	36.74	-0.09	
14	PRN	EPU	6 6 23.04				37	2.8	154.2	78	53	25.63	24.52	1.12	

DEC H = 11 12 55.09 UTC RMS = 0.29 NO = 13 — FREE DEPTH SOLUTION
14 LAT = 36.529 N ERH = 1.0 ERM = 1.2 AVFM = 2.1 Q = C
LONG = 116.606 W ERY = 0.6 GAP = 156 AVXM = QS = C — CHLORIDE CLIFF
DEPTH = 6.69 KM ERZ = 7.5 NM = QD = C

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
14	APR	EPU	11 12 58.28				38	2.4	18.9	141	106	3.19	3.52	-0.33	
14	BPO	EPU	11 12 59.00				19	1.8	26.0	356	101	3.91	4.66	-0.76	
14	SDM	EPD	11 12 59.83				32	2.2	27.3	62	101	4.79	4.86	-0.13	
14	LSM	IPD	11 13 1.67						38.0	52	98	6.58	6.58	-0.00	
14	GWV	EPD	11 13 1.82				31	2.2	38.4	199	98	6.73	6.65	-0.02	
14	CDM1	EPD	11 13 2.92				15	1.6	44.9	35	97	7.83	7.71	0.12	
14	JCN	EPD	11 13 3.34				32	2.3	46.2	102	96	8.25	7.90	0.34	
14	LCP	EPD	11 13 4.13				33	2.4	53.3	47	95	9.04	9.06	-0.02	
14	SSP	EPU	11 13 4.92				21	2.0	56.0	38	95	9.83	9.49	0.33	
14	MCY	EPD	11 13 5.50				37	2.5	59.5	76	95	10.41	10.06	0.34	
14	NOP	EPD	11 13 5.80				29	2.3	60.3	137	95	9.91	10.19	-0.29	
14	BSM	EPU	11 13 6.66				17	1.8	63.8	281	94	11.57	11.24	0.32	
		ESD	11 13 14.79									19.70	19.68	0.02	

DEC H = 2 34 46.54 UTC RMS = 0.06 NO = 20 — FREE DEPTH SOLUTION
15 LAT = 36.631 N ERH = 0.1 ERM = 0.2 AVFM = 2.6 Q = B
LONG = 115.489 W ERY = 0.1 GAP = 108 AVXM = QS = A — HAYFORD PEAK
DEPTH = 0.02 KM ERZ = 0.5 NM = QD = C

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
15	SMRG	EPU	2 34 51.44				29	2.1	26.7	122	38	4.98	4.96	-0.00	
15	SPRG	IPU	2 34 53.10				41	2.5	34.5	281	38	6.56	6.55	0.02	
15	EPR	IPU	2 34 57.41				41	2.6	62.9	18	38	10.07	10.04	0.04	
15	JCN	EPD	2 34 57.80				42	2.6	65.7	251	38	11.26	11.30	-0.04	
15	LCP	EPU	2 34 58.93				48	2.7	72.2	290	38	12.36	12.35	0.01	
15	LSM	EPU	2 34 59.81				60	3.0	78.0	279	38	13.27	13.31	-0.03	
15	SCM	EPU	2 35 0.65				35	2.5	83.2	271	38	14.11	14.14	-0.03	
15	GLN	EPU	2 35 0.46				33	2.5	83.2	319	38	13.92	14.15	-0.07	
15	CDM1	EPU	2 35 0.93				35	2.5	85.1	287	38	14.39	14.45	-0.06	
15	BGB	EPU	2 35 1.08				31	2.4	85.9	302	38	14.54	14.58	0.01	
15	NCP	EPU	2 35 1.30				39	2.6	87.6	230	38	14.76	14.76	0.00	
15	PRN	EPU	2 35 2.09				43	2.7	91.8	20	38	15.55	15.55	0.00	
15	MTI	EPD	2 35 5.92				31	2.5	116.7	6	38	19.38	19.59	-0.00	
15	DLM	IPU	2 35 7.24				28	2.5	123.5	29	38	20.70	20.70	0.01	
		ESUG	2 35 18.65									32.15	36.22	-4.06	
15	SGV	EPD	2 35 11.31				38	2.8	150.0	285	38	24.77	24.53	0.25	
		ESD	2 35 29.83									43.29	42.93	0.37	
15	KRNA	EPD	2 35 11.22				49	3.0	151.2	325	38	24.68	24.68	0.00	
15	GVN	EPU	2 35 14.60				38	2.9	177.4	283	38	28.06	28.09	-0.02	
		ESUG	2 35 36.73									50.19	49.15	1.04	
15	GPN	IPU	2 35 15.23				38	2.7	188.7	294	38	28.69	28.52	0.18	
		ESU	2 35 36.21									49.67	49.90	-0.23	

DEC H = 21 17 40.96 UTC RMS = 0.10 NO = 3 — FIXED DEPTH SOLUTION
16 LAT = 37.205 N ERH = ERM = AVFM = 2.1 Q = C — DEPTH CONTROL INADEQUATE
LONG = 115.824 W ERY = GAP = 307 AVXM = QS = A — GROUM LAKE
DEPTH = 5.00 KM ERZ = NM = QD = D

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
16	EPN	EPU	21 17 48.56				30	2.2	44.4	271	94	7.60	7.59	0.01	
16	SSP	EPU	21 17 48.79				27	2.2	46.9	228	94	7.83	7.99	-0.16	
16	LCP	EPU	21 17 49.58				17	1.8	49.5	218	94	8.54	8.42	0.13	

DEC H = 7 28 51.47 UTC RMS = 0.00 NO = 4 — FREE DEPTH SOLUTION
17 LAT = 37.028 N ERH = ERM = AVFM = 2.3 Q = C
LONG = 116.211 W ERY = GAP = 195 AVXM = QS = A — SILENT CANYON - YUCCA FLAT
DEPTH = 5.85 KM ERZ = NM = QD = D

DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
17	SSP	IPU	7 28 53.82				33	2.2	11.5	183	112	2.35	2.36	-0.00	
17	LCP	EPD	7 28 55.10				38	2.2	19.7	169	103	3.63	3.63	0.00	

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DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	AMAG	DIM	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
1.	[illegible]	[illegible]	15 51 [illegible]						47.7	311	90	7.79	[illegible]	[illegible]	
17	[illegible]	[illegible]	15 51 [illegible]						52.2	152	90	[illegible]	[illegible]	[illegible]	
17	LFP	[illegible]	15 51 [illegible]						56.4	175	90	[illegible]	9.92	[illegible]	
17	[illegible]	[illegible]	15 51 [illegible]						59.7	59	90	10.24	10.06	0.22	
17	[illegible]	[illegible]	15 51 [illegible]						67.8	175	90	11.43	11.31	0.12	
17	SPV	[illegible]	15 51 [illegible]						74.6	217	90	11.75	12.16	-0.41	
17	[illegible]	[illegible]	15 51 [illegible]						76.8	[illegible]	90	14.08	12.71	1.37	
17	SDM	[illegible]	15 51 [illegible]						77.4	140	90	13.08	12.96	0.12	
17	[illegible]	[illegible]	15 51 [illegible]				170	3.6	[illegible]	[illegible]	90	13.93	13.73	0.21	
17	[illegible]	[illegible]	15 51 [illegible]						82.7	156	90	13.61	13.79	-0.16	
17	SFMG	EPU	15 51 [illegible]				179	3.7	[illegible]	147	90	13.68	14.33	-0.66	
17	[illegible]	[illegible]	15 51 [illegible]				189	3.8	110.9	[illegible]	90	16.71	16.75	0.15	
17	JCK	EPU	15 51 [illegible]				198	3.9	102.5	149	90	16.71	17.01	-0.28	
17	LPM	EPD	15 51 [illegible]				169	3.8	105.6	101	90	17.53	17.19	0.34	
17	APM	EPU	15 51 [illegible]				175	3.8	105.8	197	90	16.33	17.56	0.78	
17	LCM	EPU	15 51 51.52						117.1	[illegible]	90	20.10	19.39	0.71	
17	[illegible]	[illegible]	15 51 53.40						131.9	193	53	21.98	21.01	0.88	
17	APN	EPD	15 51 53.55						132.8	149	53	22.13	21.86	0.27	
17	[illegible]	EPD	15 51 53.33						135.9	173	53	21.91	22.33	-0.41	
17	[illegible]	EPU	15 51 54.52						139.6	174	53	23.10	22.80	0.30	
17	SPMG	EPU	15 51 54.10						140.8	152	53	22.66	22.91	-0.18	

DEC M = 16 1 10.48 UTC RMS = 0.10 NO = 13 — FREE DEPTH SOLUTION
17 LAT = 36.048 N ERX = 0.3 ERM = 0.6 AVFM = 3.8 Q = B
LONG = 115.737 W ERY = 0.3 GAP = 83 AVSM = QS = A — MERCURY
DEPTH = 2.69 KM ERZ = 1.8 NM = QD = C

17	SPMG	EPD	16	1 23.40			154	3.6	28.5	193	92	5.00	4.99	0.01	
17	GLR	EPD	16	1 24.81			210	3.9	37.7	319	91	6.41	6.09	0.07	
		ISO	16	1 28.92								10.52	11.10	-0.58	
17	SSP	EPU4	16	1 26.63			202	3.9	42.9	267	90	8.23	7.33	0.90	
17	BGB	EPD	16	1 26.81			206	3.9	46.9	293	90	7.61	7.69	0.08	
17	EPR	EPU	16	1 27.71			70	3.0	54.9	63	90	9.31	9.29	0.03	
17	EPM	EPU	16	1 28.03			192	3.9	60.1	348	90	9.63	10.13	-0.49	
		ISO4	16	1 31.91								13.51	17.72	-4.21	
17	SDM	EPD	16	1 29.09			79	3.1	63.8	238	90	10.69	10.60	0.09	
			16	1 34.70								16.34	18.55	-2.21	
17	SMRG	EPD	16	1 30.25			127	3.6	71.3	135	90	11.85	11.95	-0.05	
17	NCP	EPD	16	1 34.70			184	4.0	97.9	292	90	16.38	16.27	0.03	
17	KRNA	EPD	16	1 36.05			166	3.9	106.1	327	90	17.65	17.60	0.06	
17	DLM	EPU	16	1 37.65			157	3.9	115.0	50	90	19.05	19.05	-0.00	
17	CTS	EPD	16	1 37.83			191	4.1	116.8	311	90	19.43	19.34	0.09	
17	RVE	EPU2	16	1 39.92			202	4.2	125.9	341	90	21.52	20.83	0.69	
17	MCA	EPU	16	1 41.61					141.6	257	53	23.21	23.07	0.15	

DEC M = 6 30 11.29 UTC RMS = 0.22 NO = 13 — FREE DEPTH SOLUTION
18 LAT = 38.036 N ERX = 1.1 ERM = 3.3 AVFM = 2.6 Q = D
LONG = 116.830 W ERY = 3.1 GAP = 217 AVSM = QS = C — BLACK BUTTE
DEPTH = 7.27 KM ERZ = 2.4 NM = QD = D

18	CTS	EPU4	0	30 25.40			28	2.2	44.9	168	97	13.60	7.71	5.90	
18	RVE	EPU4	0	30 23.69			27	2.2	56.1	92	96	11.69	9.51	2.38	
18	MZP	EPD	0	30 21.75			34	2.4	61.3	233	95	9.95	10.35	-0.21	
18	BLT	IPU4	0	30 19.18					88.4	136	94	7.30	14.76	-7.46	
18	SVP	EPD	0	30 27.34			28	2.3	92.5	247	93	15.54	15.43	-0.03	
18	EPG	EPD4	0	30 29.80			34	2.5	101.6	156	93	17.28	16.89	0.31	
18	NPN	EPD4	0	30 36.10					106.0	179	93	24.30	17.62	6.69	
18	TPU	EPD	0	30 30.89			41	2.8	114.4	115	93	19.09	18.99	0.11	
18	PPK	EPD	0	30 31.51			24	2.3	116.6	235	93	19.71	19.34	0.37	
18	GLR	EPU	0	30 31.39			39	2.7	117.3	142	53	19.59	19.44	0.30	
18	SGV	EPD4	0	30 35.57					118.4	189	53	23.77	19.59	4.19	
18	BGB	EPU	0	30 31.91			48	2.9	122.9	154	53	20.11	20.17	-0.08	
18	GVN	EPU4	0	30 29.66			33	2.6	123.4	202	53	17.86	20.24	-2.37	
18	SSP	EPU	0	30 33.21			27	2.5	134.6	156	53	21.41	21.69	-0.27	
18	MTI	EPD	0	30 34.21			35	2.7	142.6	106	53	22.41	22.73	-0.12	
18	LOP	EPU4	0	30 29.50			38	2.6	143.6	156	53	17.70	22.86	-5.16	
18	LSN	EPU	0	30 36.08			46	2.9	152.2	161	53	24.24	23.97	0.28	
18	FMT	EPD	0	30 35.91			29	2.6	155.8	178	53	24.11	24.34	-0.12	
18	NPN	EPD	0	30 38.04			42	3.0	172.8	104	53	26.24	26.55	-0.31	
18	EPR	EPU	0	30 38.61					174.1	124	53	26.81	26.82	-0.01	
18	JCN	EPD	0	30 41.10			48	3.0	188.5	160	53	29.30	24.69	0.62	
18	APK	EPU4	0	30 41.20					220.7	150	53	29.40	32.87	-3.46	

DEC M = 14 47 32.92 UTC RMS = 0.44 NO = 4 — FREE DEPTH SOLUTION
19 LAT = 36.325 N ERX = ERM = AVFM = 2.3 Q = D
LONG = 116.313 W ERY = GAP = 152 AVSM = QS = C — ASH MEADOWS
DEPTH = 0.10 KM ERZ = NM = QD = D

19	APR	EPD	14	47 36.05			23	1.9	16.6	299	38	3.13	3.38	-0.25	
19	JCN	EPD	14	47 36.46			24	2.0	22.7	56	38	3.94	4.37	-0.44	
19	NOP	EPU	14	47 38.05			17	1.7	26.2	147	38	5.13	4.94	0.18	

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DEC 1988	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
20	CPX	EPD	1 46 27.64				22	2.0	63.5	314	38	10.78	10.75	0.03	
20	LCP	EPU	1 46 27.78				48	2.7	66.0	303	38	10.92	11.15	-0.23	
20	LSM	EPU	1 46 28.29						68.7	299	38	11.43	11.60	-0.17	
20	SDM	EPU	1 46 28.89				43	2.6	71.7	289	38	12.03	12.09	-0.06	
20	SSP	EPD	1 46 29.50				52	2.6	74.2	306	38	12.64	12.49	0.15	
20	CDMS	EPU	1 46 29.77				34	2.5	77.8	290	38	12.91	13.08	-0.17	
20	CDMI	EPU	1 46 29.89				40	2.6	77.8	298	38	13.13	13.08	0.05	
20	BGB	EPD	1 46 30.78				46	2.7	82.8	313	38	13.92	13.88	0.09	
20	AMM	EPD	1 46 31.13				34	2.6	84.1	260	38	14.27	14.10	0.17	
20	GLR	EPD	1 46 31.65				40	2.8	85.3	331	38	14.19	14.29	0.05	
20	EPM	EPD	1 46 33.24				54	3.0	102.7	318	38	16.38	17.12	-0.78	
20	MTI	EPD	1 46 38.78				36	2.7	129.7	11	38	21.84	21.92	0.52	
20	NPM	EPD	1 46 39.64				52	3.0	136.1	24	38	22.78	22.50	0.28	
20	DLM	EPU	1 46 40.32				36	2.7	139.5	31	38	23.46	22.96	0.50	
20	SBV	EPD	1 46 40.45				39	2.8	141.5	291	38	23.59	23.22	0.38	

DEC M = 6 24 27.71 UTC RMS = 0.06 NO = 11 — FREE DEPTH SOLUTION
20 LAT = 36.748 N ERX = 0.3 ERM = 0.4 AVFM = 2.0 Q = B
LONG = 116.000 W ERY = 0.2 GAP = 124 AVXM = QS = A — LATHROP WELLS
DEPTH = 6.03 KM ERZ = 1.8 NM = QD = B

20	MCY	IPD	6 24 29.87				44	2.5	18.2	168	116	2.16	2.17	-0.02	
20	SPRG	IPU	6 24 31.09				24	2.0	18.1	199	104	3.38	3.39	-0.01	
20	LOP	IPU	6 24 31.28				36	2.3	19.8	388	104	3.57	3.52	0.04	
20	CPX	EPU	6 24 31.53				18	1.7	20.7	346	103	3.82	3.80	0.02	
20	LSM	IPU	6 24 32.13				36	2.3	24.3	268	101	4.42	4.36	0.05	
20	SSP	EPU	6 24 32.73				33	2.3	27.6	315	99	5.02	4.90	0.11	
20	CDMS	EPD	6 24 32.94				13	1.5	30.9	294	98	5.23	5.43	-0.20	
20	CDMI	IPD	6 24 33.03				18	1.7	30.9	296	98	5.32	5.43	-0.11	
20	SDM	EPU	6 24 33.30				23	2.0	32.3	289	98	5.59	5.65	-0.06	
20	JCM	EPU	6 24 33.96				22	1.9	33.8	195	97	6.25	6.16	0.09	
20	BGB	EPU	6 24 34.21				18	1.8	34.8	328	97	6.50	6.57	-0.02	

DEC M = 10 18 43.36 UTC RMS = 0.38 NO = 12 — FREE DEPTH SOLUTION
20 LAT = 36.514 N ERX = 1.3 ERM = 1.7 AVFM = 2.6 Q = C
LONG = 115.568 W ERY = 1.1 GAP = 92 AVXM = QS = C — MERCURY
DEPTH = 1.06 KM ERZ = 3.4 NM = QD = C

20	APK	EPD	10 18 47.33				33	2.2	21.6	183	38	3.97	3.88	0.09	
20	SPRG	IPU	10 18 47.85				34	2.3	29.9	312	38	4.49	5.22	-0.73	
20	SHMG	EPD	10 18 49.15				26	2.1	36.3	92	38	5.79	6.26	-0.42	
		IBU	10 18 54.03									10.65	10.87	-0.22	
20	MCY	IPU	10 18 49.70				50	2.7	39.5	294	38	6.34	6.78	-0.44	
20	JCM	EPD	10 18 51.70				40	2.5	49.3	268	38	8.34	8.38	-0.04	
20	LOP	EPU	10 18 54.12				46	2.7	66.1	395	38	10.76	11.11	-0.35	
20	SDM	EPD	10 18 55.28				37	2.5	71.1	292	38	11.92	11.92	-0.00	
20	SSP	EPU4	10 18 53.50				53	2.8	74.4	308	38	10.14	12.46	-2.32	
20	CDMI	EPU	10 18 56.78				22	2.1	77.8	308	38	13.42	13.01	0.41	
20	BGB	EPD	10 18 57.95				34	2.5	83.2	314	38	14.59	13.89	0.75	
20	PRM	IPD	10 19 2.08				32	2.5	109.8	25	38	18.72	18.08	0.64	
20	MTI	EPD	10 19 5.48				24	2.4	131.5	11	38	22.12	21.74	0.38	

DEC M = 10 32 26.54 UTC RMS = 0.09 NO = 7 — FREE DEPTH SOLUTION
20 LAT = 36.243 N ERX = 0.4 ERM = 0.7 AVFM = 2.2 Q = C
LONG = 115.597 W ERY = 0.5 GAP = 150 AVXM = QS = C — MERCURY
DEPTH = 0.85 KM ERZ = 133.1 NM = QD = C

20	APK	EPD	10 32 31.05				26	2.0	24.8	184	38	4.51	4.57	-0.05	
20	SPRG	EPD	10 32 31.56				23	2.0	28.1	307	38	5.02	5.10	-0.08	
20	SHMG	IPD	10 32 32.95				16	1.7	36.3	97	38	6.41	6.42	0.08	
20	MCY	EPU	10 32 33.35				35	2.4	38.6	290	38	6.81	6.80	0.01	
20	JCM	EPD	10 32 35.33				27	2.2	50.2	257	38	8.79	8.69	0.10	
20	LOP	EPU4	10 32 38.30				39	2.5	64.6	302	38	11.76	11.03	0.74	
20	LSM	EPU	10 32 38.18				38	2.5	67.6	289	38	11.64	11.51	0.13	
20	SDM	EPD	10 32 38.83				23	2.1	70.4	279	38	12.29	12.04	0.25	
20	PRM	EPD4	10 32 46.23				29	2.4	106.0	25	38	19.69	17.76	1.93	

DEC M = 14 56 45.53 UTC RMS = 0.16 NO = 11 — FREE DEPTH SOLUTION
21 LAT = 37.428 N ERX = 0.7 ERM = 1.1 AVFM = 2.5 Q = C
LONG = 116.997 W ERY = 0.8 GAP = 176 AVXM = QS = B — DELAMAR MOUNTAINS
DEPTH = 3.94 KM ERZ = 3.7 NM = QD = C

21	PRM	IPU	14 56 46.22				32	2.2	5.2	243	118	0.69	1.30	-0.60	
21	NPM	IPU	14 56 50.09				50	2.6	25.5	12	95	4.56	4.51	0.05	
21	DLM	EPD	14 56 50.60				29	2.2	30.2	49	94	5.27	5.27	0.00	
21	MTI	EPD	14 56 51.58				24	2.2	36.0	319	94	6.05	6.35	-0.09	

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1988 SINTHPON GREAT BASIN
LOCAL-EVENT DATA REPORT

DEC 1988	STA	PHASE	TIME (UTC)	AMP (PU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 22	MCY	EPD	14 42 45.25				72	3.3	128.2	241	53	20.88	20.36	-0.28	
. 22	BLT	EPD	14 42 45.70				60	3.1	129.4	242	53	20.53	20.52	0.01	
. 22	LOP	EPD	14 42 46.60				68	3.3	136.4	253	53	21.43	21.43	0.00	
. 22	SSP	EPD	14 42 46.94				69	3.2	138.5	256	53	21.77	21.70	0.07	
. 22	EPN	EPH	14 42 47.95				66	3.3	143.6	270	53	22.70	22.37	0.42	
. 22	LSM	EPUa	14 42 47.00				76	3.4	149.4	249	53	22.23	23.12	-0.89	
. 22	JON	EPD	14 42 48.66				47	3.0	152.0	235	53	23.49	23.46	0.03	
. 22	RVE	EPD	14 42 49.06				43	3.0	158.2	304	53	23.89	24.26	-0.37	
. 22	SDM	EPU	14 42 49.65				58	3.1	159.0	246	53	24.40	24.36	0.12	
. 22	KRNA	EPD	14 42 49.39				58	3.2	159.2	292	53	24.22	24.39	-0.16	
. 22	NOP	EPD	14 42 52.00				58	3.3	177.5	227	53	26.83	26.76	0.07	
. 22	CTS	EPU	14 42 52.66				57	3.3	184.7	284	53	27.49	27.78	-0.21	

. DEC H = 1 14 4.59 UTC RMS = 0.15 NO = 5 FREE DEPTH SOLUTION
. 23 LAT = 36.752 N ERX = 2.5 ERH = 3.8 AVFM = 1.4 Q = D
. LONG = 116.089 W ERY = 1.6 GAP = 209 AVXM = QS = C LATHRUP WELLS
. DEPTH = 2.08 KM ERZ = 55.3 NM = QD = D

. 23	MCY	IPD	1 14 6.53				12	1.3	10.9	157	92	1.94	2.12	-0.18	
. 23	LOP	EPU	1 14 7.90				15	1.5	18.1	309	91	3.31	3.30	0.01	
. 23	LSM	EPU	1 14 8.71				13	1.4	23.5	266	90	4.12	4.18	-0.05	
. 23	SDM	EPU	1 14 10.11				9	1.1	31.7	268	90	5.52	5.51	0.02	
. 23	JON	EPD	1 14 10.97				12	1.4	35.7	194	90	6.38	6.15	0.23	

. DEC H = 9 5 26.41 UTC RMS = 0.42 NO = 21 FREE DEPTH SOLUTION
. 23 LAT = 36.956 N ERX = 6.0 ERH = 6.3 AVFM = 3.0 Q = D
. LONG = 117.682 W ERY = 1.3 GAP = 258 AVXM = QS = C DRY MOUNTAIN
. DEPTH = 0.29 KM ERZ = 2.5 NM = QD = D

. 23	MCA	IPD	9 5 34.70				42	2.5	49.5	134	38	8.29	8.69	-0.40	
. 23	GPN	IPU	9 5 34.95						53.6	44	38	8.54	9.35	-0.81	
. 23	SGV	IPD	9 5 36.43						57.9	87	38	10.02	10.06	-0.04	
. 23	BPO	EPU	9 5 42.14				40	2.7	96.6	103	38	15.73	16.35	-0.62	
. 23	EPN	EPD	9 5 47.61				52	3.0	124.1	77	38	21.20	24.02	0.38	
. 23	GRV	EPD	9 5 47.13				40	2.8	124.4	133	38	20.72	20.87	-0.25	
. 23	APR	EPU	9 5 47.05				41	2.8	124.4	120	38	20.64	20.88	-0.24	
. 23	SDM	EPD	9 5 47.79				41	2.8	124.8	106	38	21.38	20.93	0.45	
. 23	LSM	EPD	9 5 48.17				60	3.1	128.1	101	38	21.76	21.48	0.28	
. 23	BGB	EPU	9 5 48.14				58	3.1	129.8	86	38	21.73	21.74	0.04	
. 23	SSP	EPD	9 5 48.55				50	3.0	130.5	92	38	22.14	21.86	0.28	
. 23	QSM	EPU	9 5 48.63				40	2.8	131.9	146	38	22.02	22.08	-0.06	
.		ESU	9 6 5.40									38.99	38.65	0.34	
. 23	LCP	EPD	9 5 49.26				57	3.1	135.4	95	38	22.85	22.67	0.18	
. 23	CPX	EPDa	9 5 51.65				45	2.9	148.7	91	38	25.24	23.87	1.37	
.		ESD	9 6 8.21									41.80	41.78	0.02	
. 23	KRNA	EPU	9 5 50.60				48	3.0	145.1	53	38	24.19	23.92	0.27	
. 23	BLT	EPU	9 5 51.21				48	2.9	148.4	68	38	24.80	24.34	0.46	
. 23	GLR	EPDa	9 5 51.78				41	2.9	150.4	86	38	25.37	24.61	0.01	
. 23	JON	EPUa	9 5 52.28				38	2.8	152.3	112	38	25.79	24.85	0.94	
. 23	MCY	EPU	9 5 52.56				57	3.2	156.9	102	38	26.15	25.45	0.70	
. 23	NOP	EPD	9 5 53.08				37	2.8	165.0	124	38	26.67	26.50	0.17	
. 23	SPRG	EPDa	9 5 54.83				57	3.2	159.6	100	38	28.42	27.11	1.32	
.		ISUa	9 6 16.65									58.28	47.44	2.81	
. 23	RVE	EPD	9 5 55.76				39	2.9	176.9	48	38	29.35	28.05	1.30	
. 23	OCS	EPD	9 5 56.43				34	2.8	180.4	60	38	30.02	28.51	1.51	
. 23	TPU	EPDa	9 5 58.38				46	3.1	194.1	68	38	31.69	30.28	1.61	
.		ESDa	9 6 22.69									56.29	52.99	3.29	
. 23	PRN	EPU	9 6 2.98				65	3.6	239.0	78	38	36.57	36.11	0.46	
. 23	NPN	EPU	9 6 5.04				54	3.5	255.4	72	38	38.63	38.24	0.39	

. DEC H = 17 35 58.97 UTC RMS = 0.50 NO = 14 FREE DEPTH SOLUTION
. 25 LAT = 37.367 N ERX = 2.1 ERH = 2.7 AVFM = 2.9 Q = D
. LONG = 116.392 W ERY = 1.7 GAP = 83 AVXM = QS = D SILENT CANYON - NORTH
. DEPTH = 12.40 KM ERZ = 3.9 NM = QD = C

. 25	EPH	EPDa	17 35 54.18				146	3.5	18.0	160	122	******	3.79	-0.58	
. 25	BLT	EPD	17 36 4.70				65	2.8	25.1	65	114	5.73	4.80	0.92	
. 25	RGH	IPD	17 36 8.23				75	3.0	39.3	158	106	9.26	6.94	2.32	
. 25	CTS	EPD	17 36 6.89				33	2.3	42.3	316	105	7.92	7.45	0.47	
. 25	KRNA	EPD	17 36 5.88				44	2.6	42.5	1	105	6.91	7.49	-0.58	
. 25	SSP	EPUa	17 36 5.35				85	3.2	51.4	163	102	6.38	8.90	-2.52	
. 25	LCP	EPDa	17 36 7.37				53	2.8	68.3	161	100	8.40	10.31	-1.91	
. 25	LSM	EPU	17 36 10.25				95	3.3	70.5	171	99	11.28	11.95	-0.67	
. 25	SGV	EPU	17 36 10.63				63	3.0	71.1	233	99	11.66	12.05	-0.39	
. 25	RVE	EPU	17 36 11.30				39	2.6	76.8	14	99	12.33	12.61	-0.28	
. 25	SDM	EPU	17 36 12.60				37	2.5	80.2	177	98	13.63	13.51	0.12	
. 25	MCY	EPU	17 36 12.65				68	3.1	87.1	154	97	13.68	14.63	-0.95	
. 25	SPRG	EPD	17 36 13.62				60	3.0	90.9	145	97	14.65	15.24	-0.59	

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