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GEOLOGICAL SURVEY

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

By

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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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INTRODUCTION

Seismological studies of the Southern Great Basin region are being conducted to assess the seismic and tectonic suitability of the Nevada Test Site (NTS) region for a nuclear waste depository. The project goals are to study the seismicity of the region and determine the seismic hazard to the facility. Because of the scarcity and inconsistent deployment of seismograph stations in this area in the past, few data have been available previously about the level of seismicity and its relation to faults. Furthermore, because of the extensive alluvium cover in the Basin and Range, many important faults are partially or completely hidden and difficult to evaluate geologically. Detailed seismic studies are required to help define seismic source zones that will be relevant to the assessment of the seismic hazard, particularly the hazard to the temporary support facilities of the repository. Although delineation of currently active fault zones does not assure that activity in the future will not shift to presently inactive zones, it is possible that by combining current earthquake patterns with the record of Quaternary faulting some prediction can be made of future tectonism.

In 1979 a 47-station<sup>1/</sup> seismic network (fig. 1) was installed within a 160-km radius of NTS to locate and study earthquakes. This network covers the tectonic features of greatest significance (fig. 2) relative to seismic hazard assessment at NTS, including (1) Fish Lake Valley-Death Valley-Furnace Creek fault zones, (2) the apparent east-west belt of seismicity, and (3) the NTS "paleoseismic zone." Also shown on figure 2 are other major tectonic features that may or may not be vital in seismic hazard assessment at NTS, but may be important to an understanding of regional tectonics. The regional extent of this network is necessary for tectonic studies and to provide seismological data in the event a site might be chosen off NTS.

This report presents data relating to earthquakes recorded within the network during calendar year 1980. Epicenters of well located earthquakes from the entire monitoring period (August 1978 to December 1980) are also shown in some figures. Preliminary phase readings, locations, and magnitudes of the 1980 earthquakes are given, and some tentative interpretations of activity recorded during this and earlier periods are discussed. Statistical distribution of location errors, hypocenter depths, and the relation of epicenters to the proposed Yucca Mountain site are presented, and a brief discussion of focal mechanisms, and the association between some selected seismic activity and mapped faults is included.

ACKNOWLEDGMENTS

Field work to maintain the network of seismic stations in the Southern Great Basin is conducted under contract by W. J. Johnson and D. Morgan of the Stanwick Corporation. Electronic maintenance and repair of the telemetry and recording system are performed by D. E. Overturf and W. T. Bice. Supplemental

<sup>1/</sup>Data are also received from preexisting stations at Tonopah and Nelson, Nevada, and Leeds, Utah (about 20 miles northeast of St. George, Utah).

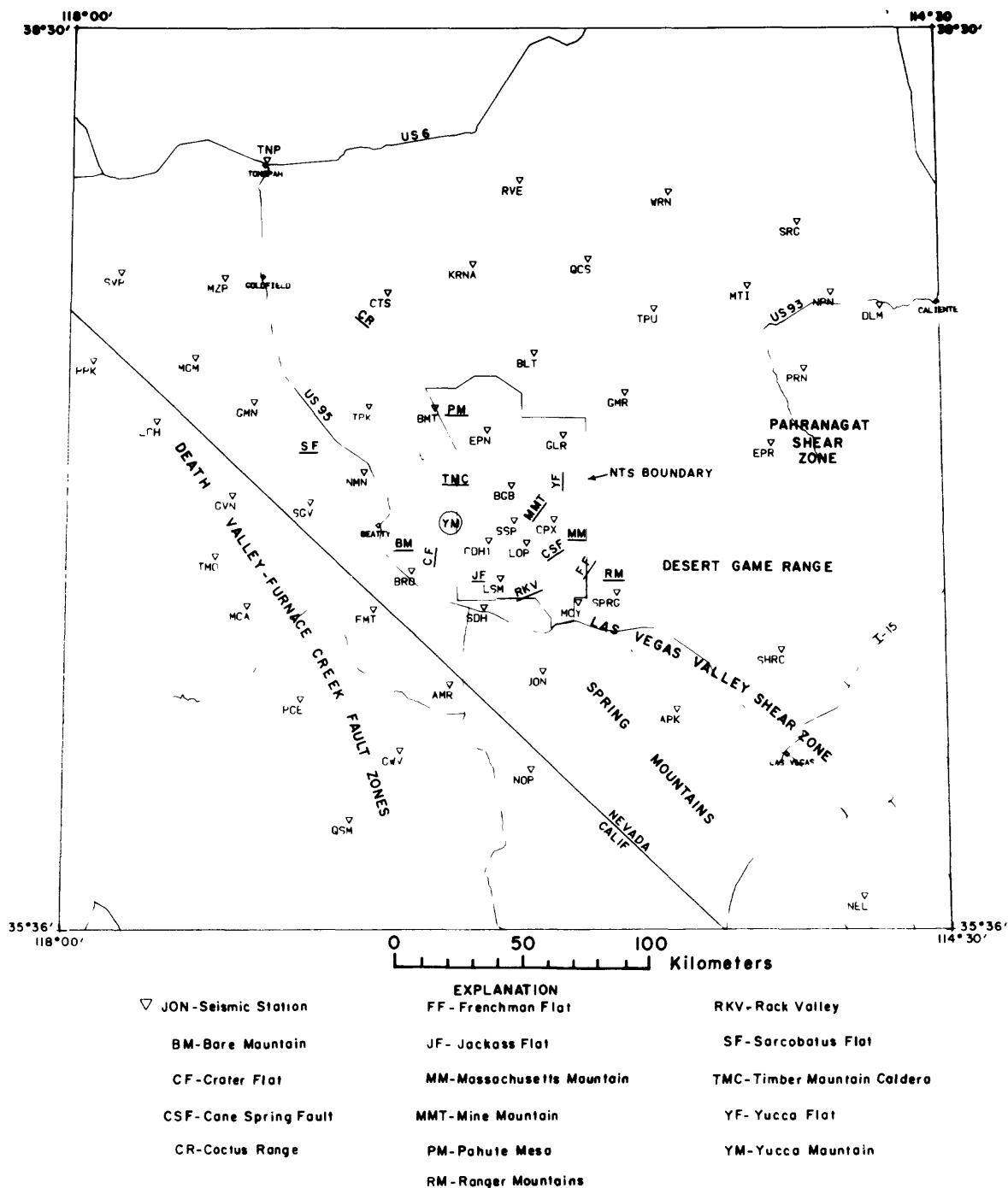
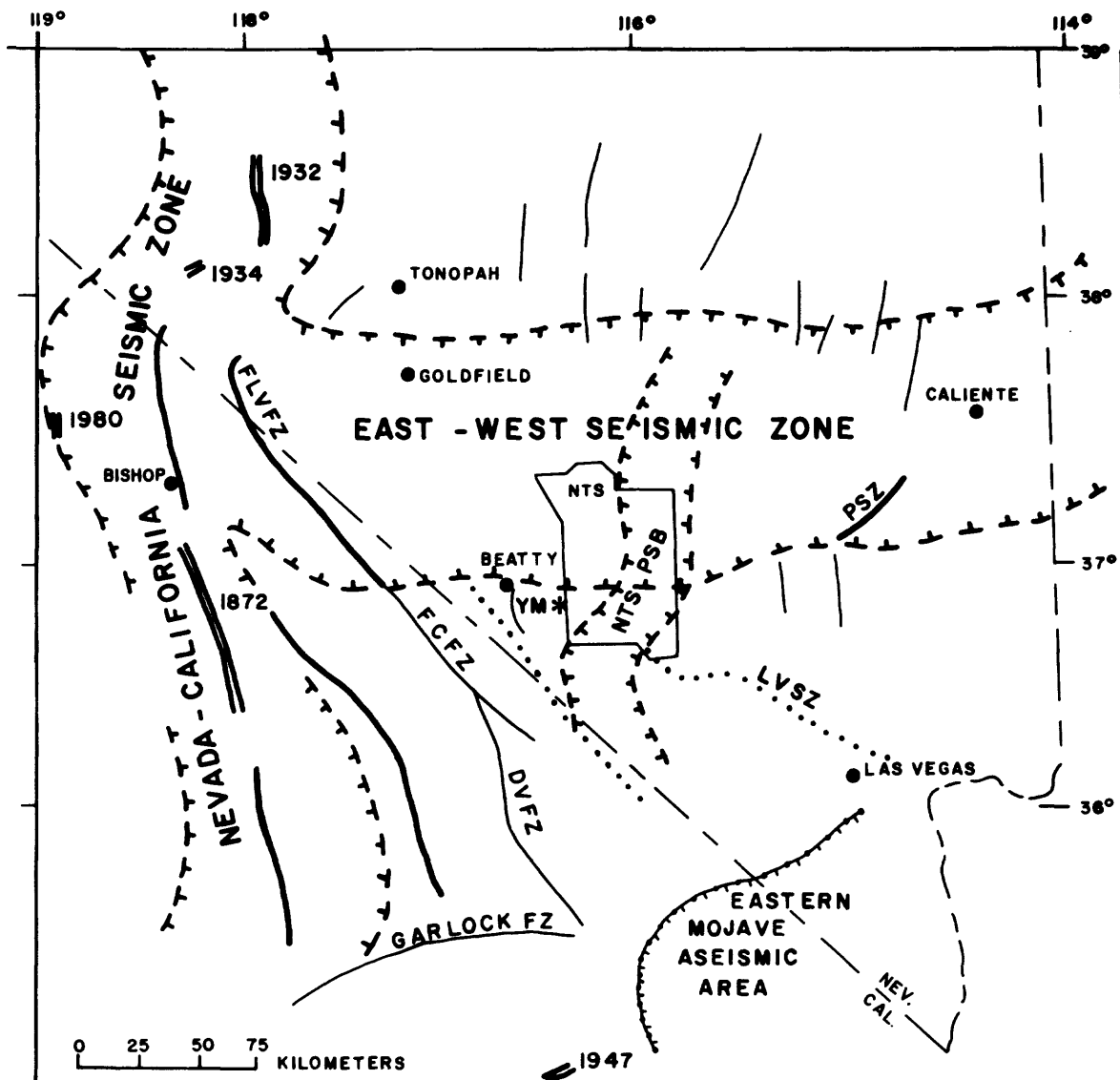


Figure 1.--Locations of seismograph stations in the Southern Great Basin are indicated by triangles. The locations of the proposed nuclear waste storage facility is indicated by the letters YM (Yucca Mountain). The generalized locations of other geographic features are also shown: BM-Bare Mountain; CF-Crater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



EXPLANATION	
1872 =====	Historic rupture, year
TTT	Seismically active with Quaternary faults
TTT	Seismically inactive with Quaternary faults
....	Seismically inactive without Quaternary faults
TTT	Eastern Mojave aseismic area
* YM	Yucca Mountain
FLVFZ	Fish Lake Valley fault zone
FCFZ	Furnace Creek fault zone
DVFZ	Death Valley fault zone
LVSZ	Las Vegas Valley Shear zone
PSZ	Pahrnagat Shear zone
NTSPSB	Nevada Test Site Paleoseismic Belt

Figure 2.--Generalized tectonic features in the vicinity of the Nevada Test Site that are relevant to the assessment of seismic hazard.

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 42 db and relayed by a Repco 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



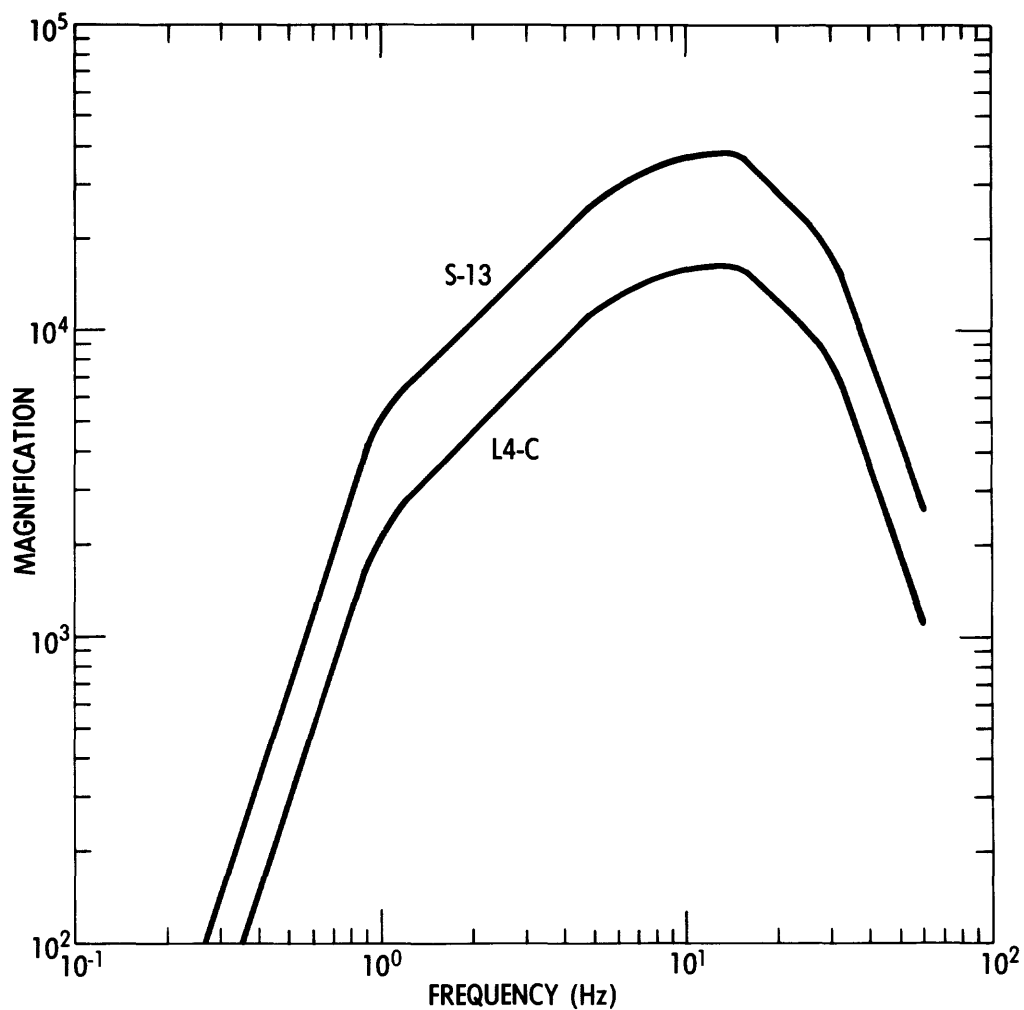


Figure 3.--Magnification curves for the network system with either L4-C or S-13 seismometers when reading the develocorder film on a 20X film viewer normal amplifier gain of 48 db. Actual operating gains are given in table 1.

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 HYP071 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:

<u>Q</u>	<u>Number</u>	<u>Percent</u>
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 Pahrnagat 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

TABLE 1  
COMPARISON OF  $M_{LD}$  (Duration Magnitude) WITH REPORTED  $M_L^1/$

DATE	TIME	LATITUDE (°N.)	LONGITUDE (°W.)	DURATION $M_{LD}$	REPORTED $M_L^2/$	DIFF
11/29/78	08:34	37.25°	116.50°	3.1	3.3 (GS)	-0.2
08/12/79	11:31	37.26°	115.06°	3.9	3.6 (GS)	0.3
08/16/79	03:37	37.25°	115.05°	3.3	3.7 (GS)	-0.4
12/25/79	04:17	37.27°	117.06°	4.1	4.2 (BRK)	-0.1
					3.9 (PAS)	0.2
01/15/80	20:28	36.18°	117.56°	3.8	3.7 (PAS)	0.1
					3.9 (BRK)	-0.1
04/02/80	18:20	36.86°	115.96°	3.4	3.2 (PAS)	0.2

<sup>1</sup>/Reported  $M_L$  taken from USGS Preliminary Determination of Epicenters Monthly Listings.

<sup>2</sup>/GS-- $M_b$ -Lg from the U.S. National Seismograph Network.

BRK--A University of California at Berkeley  $M_L$ .

PAS--A California Institute of Technology  $M_L$ .

# DEPTH OF FOCUS DISTRIBUTION

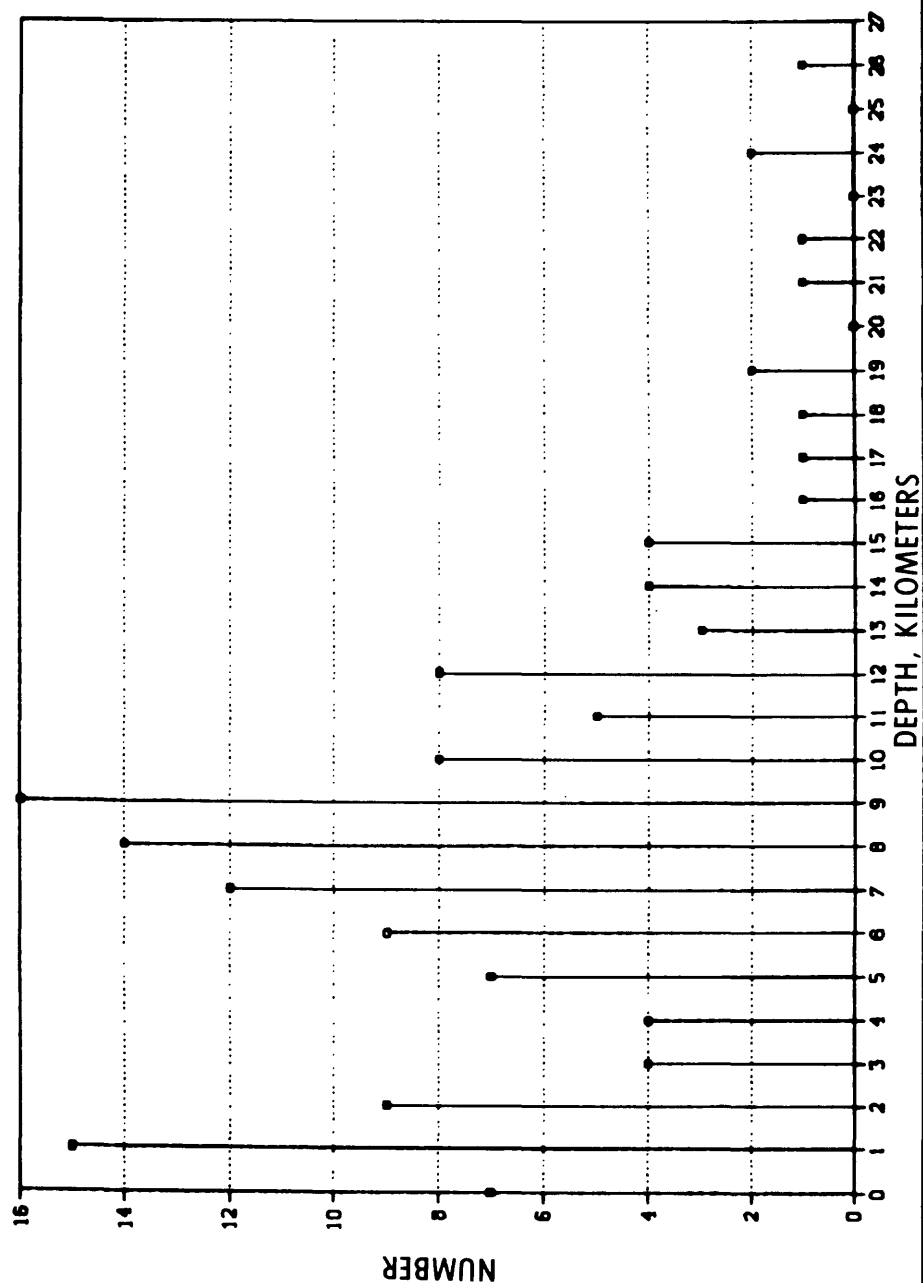


Figure 4.--Depth-of-focus histogram for earthquakes with A and B quality locations (1980).

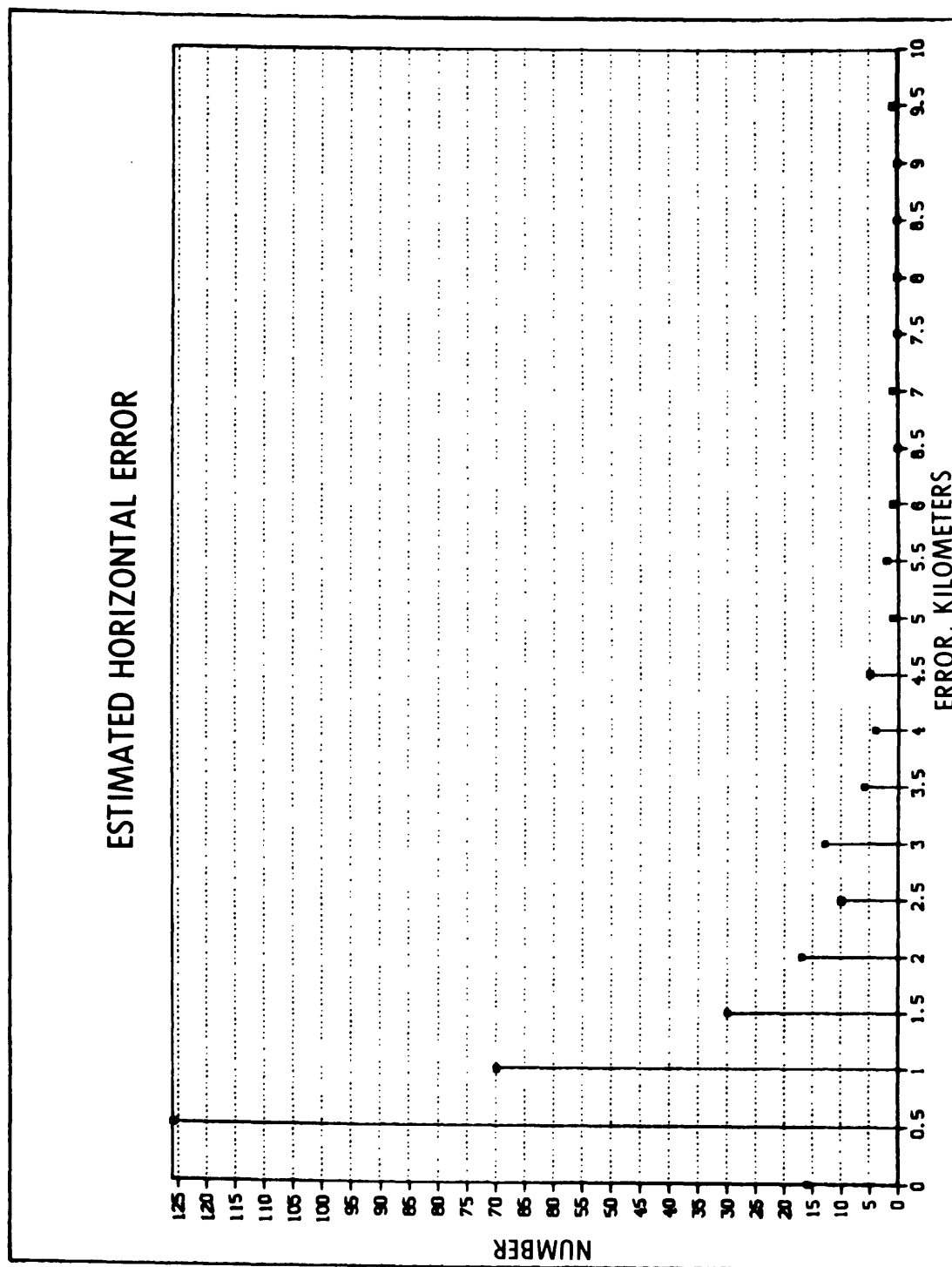


Figure 5.--Horizontal-error histogram for earthquakes with A,B, and C quality locations (1980).

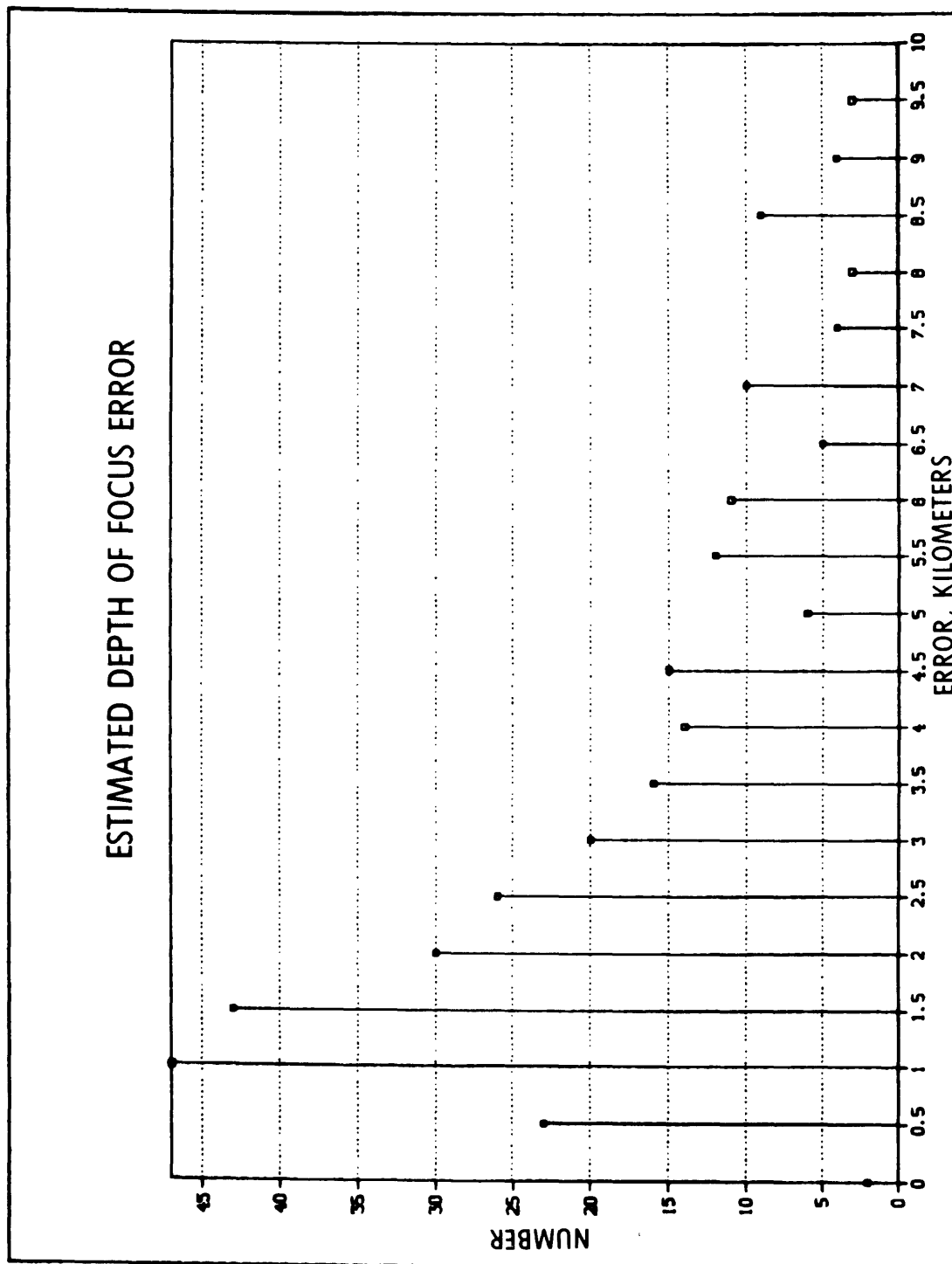


Figure 6.--Depth-error histogram for earthquakes with A, B, and C quality locations that do not have restrained depths (1980).

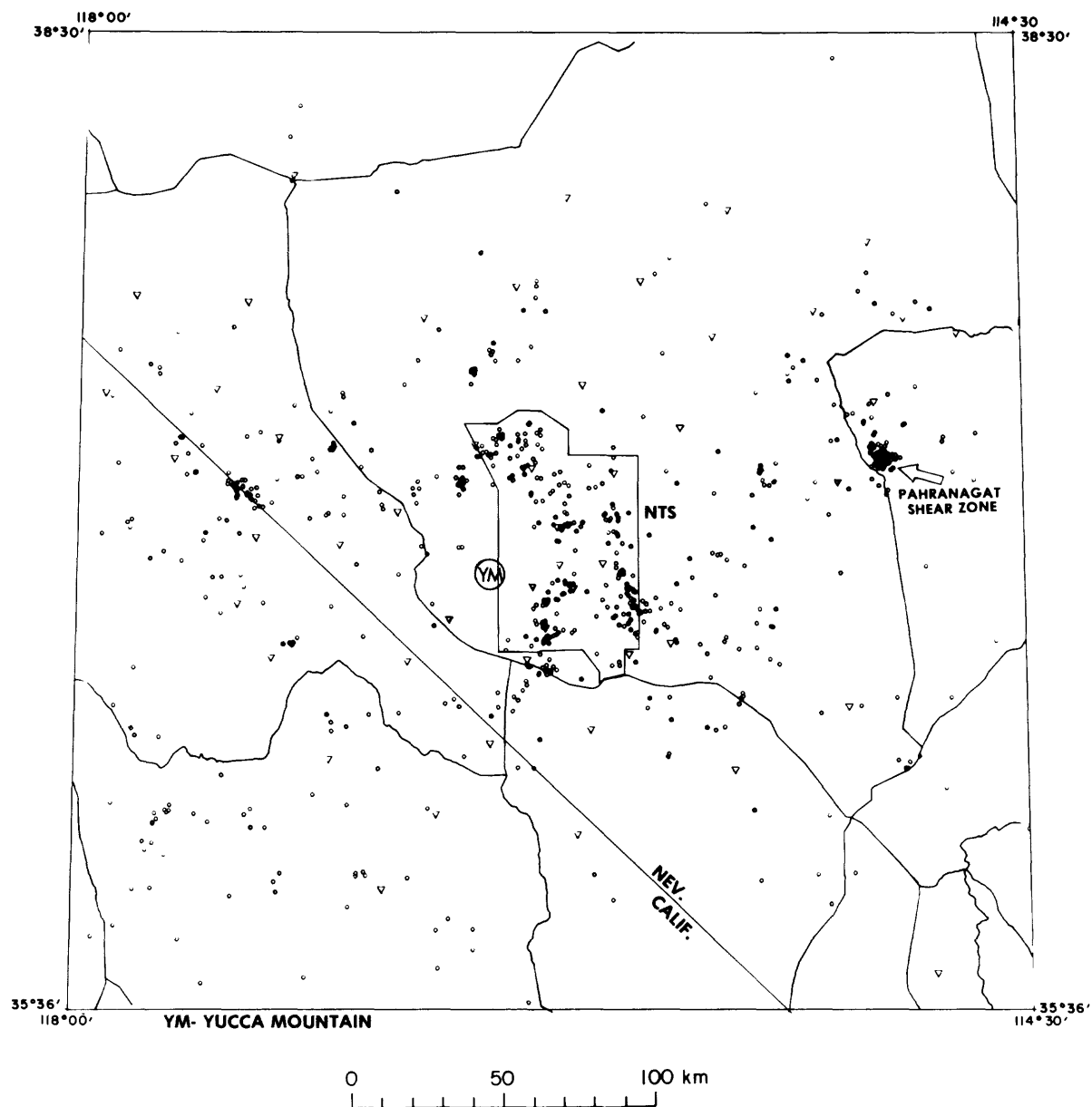


Figure 7.--SGB epicenters from August 1, 1978 through December 31, 1980. The location of the proposed nuclear waste storage facility is indicated by the letters YM (Yucca Mountain).

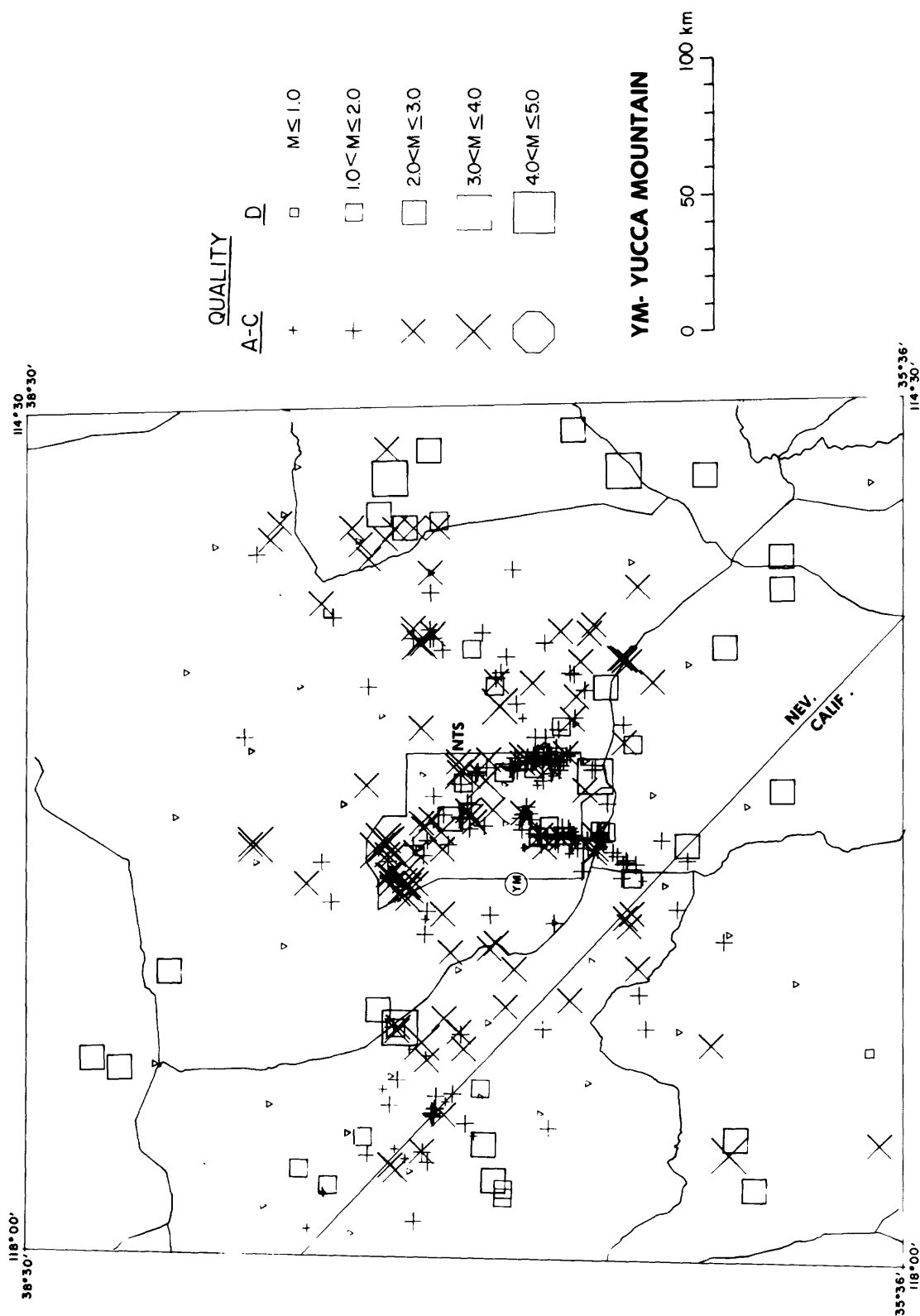


Figure 8.--SGB epicenters from January 1, 1980 through December 31, 1980 plotted with epicenter quality and magnitude as parameters. The location of the proposed nuclear waste storage facility is indicated by the letters YM (Yucca Mountain).



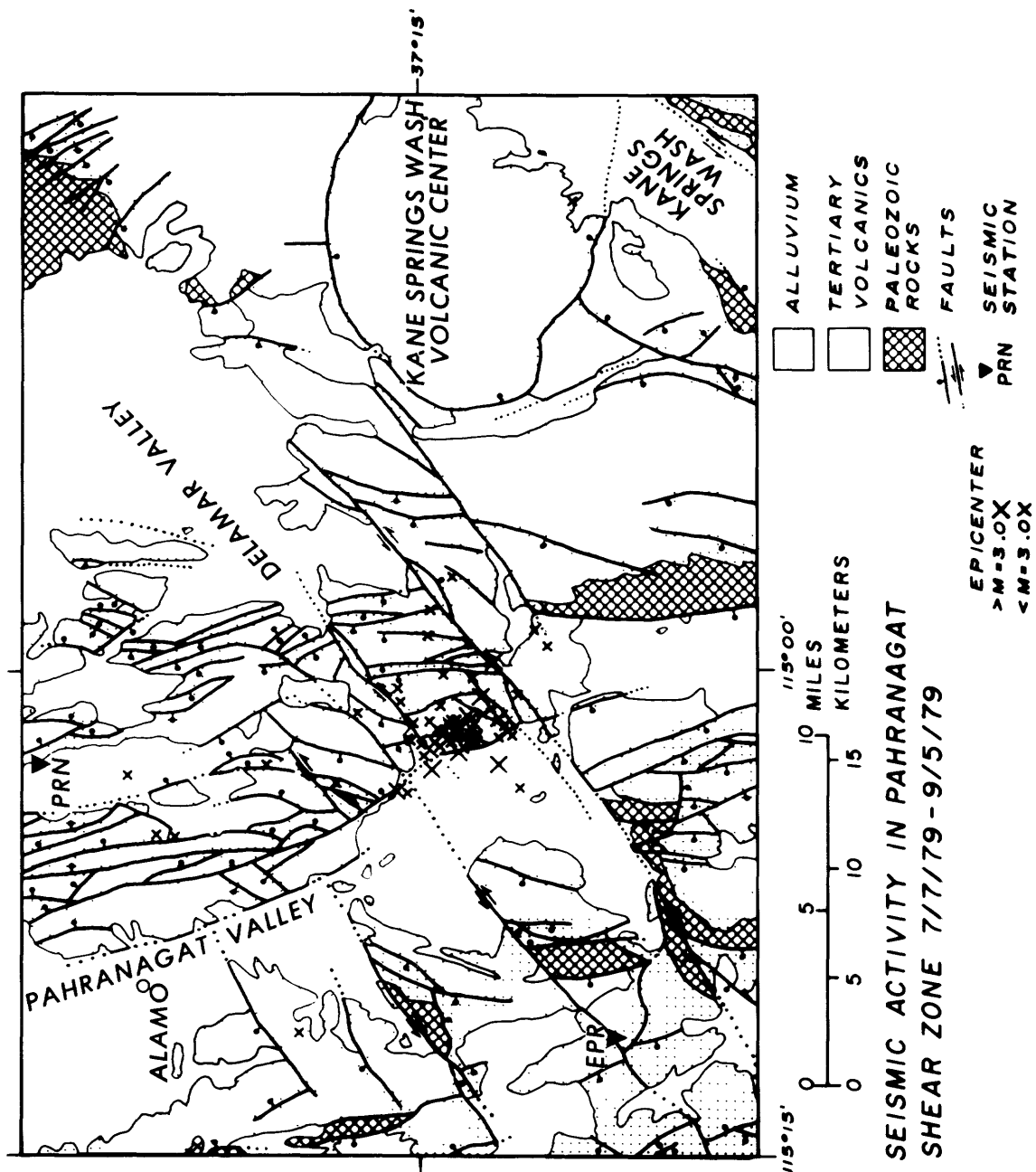


Figure 9.---Seismic activity in Pahrnanagat shear zone, July 1979 through September 1979.

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<sup>2</sup> 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 Pahrnagat 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 Pahrnagat 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 Pahrnagat 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 Pahrnagat 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 Pahrnagat 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 Pahrnagat 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 precurent 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.

Figure 10 shows the 1980 seismicity in the Yucca Mountain area in more detail. Epicenters of "D" quality are omitted. Yucca Mountain itself is notable for the lack of seismicity, as quantified in figure 11 where N/A, (number of earthquakes per unit area) is shown in annuli, each 1 km wide, as a function of annulus distance from YM. This figure emphasizes the lack of seismicity within 12 km of YM at the current network detection level threshold (about  $M = 1.5-2.0$ ).

Figure 10 also shows the relationships between major fault zones and earthquake locations. Sections of the Mine Mountain, Cane Spring, and Rock Valley fault zones appear to be active. In addition other smaller faults (not shown) that have trends similar to those of the major zones are active. The focal mechanisms indicate predominantly normal faulting on northeast-striking fault planes. The inferred least principal stress axis is approximately northwest, in agreement with other studies of Basin and Range tectonics (Carr, 1974; Thompson and Burke, 1973). The data used for these and the following focal mechanism determinations are shown in figure 12 and are also given in the local event data report (appendix D).

Figure 13 shows the location and focal mechanism for the largest event,  $M=4.1$ , recorded during the total monitoring period (August 1978 through December 1980). Although it was located in an alluvium-covered area of Sarcobatus Flat (fig. 1) where no faults have been mapped, associated aftershock locations and the focal mechanism indicate that the event probably occurred on a north-striking fault with right-lateral strike-slip motion. This mechanism is also consistent with a northwest-oriented axis of least principal stress. The existence of both strike-slip and normal faulting in the study region implies that the intermediate and greatest principal stresses are about equal in magnitude and that either may be vertically oriented.

Also indicated on figure 13 is an area of persistent seismicity on a system of northeast-trending faults near the Nevada-California border. This area of activity was detected in a study by Papanek and Hamilton (1972). Similar patterns are present at other locations near the Furnace Creek-Fish Lake Valley fault system.

## DISCUSSION

A significant portion of the total number of earthquakes in the southern Great Basin appear to occur in association with northeast-trending shear zones such as the Pahrnagat and southern NTS areas. Activity on Yucca Flat and Pahute Mesa occurs on north-trending fault zones, but most of it probably results from stress release associated with nuclear events (Hamilton and others, 1971; Rogers and others, 1977). The moderate-sized earthquake on Sarcobatus Flats, discussed earlier, is also probably associated with a north-trending fault. Whereas more data need to be analyzed to clearly demonstrate the greater seismic hazard of north- to northeast-trending faults, this conclusion is tentatively valid and is supported by the orientation of the stress field (Carr, 1974). Another tentative and somewhat conflicting conclusion that might be made at this point is that the northeast-trending faults yield relatively often in fairly small earthquakes and that the north-trending faults are potentially more of a hazard seismically, as they may yield more infrequently, but with larger events. Ryall and Priestley (1975)

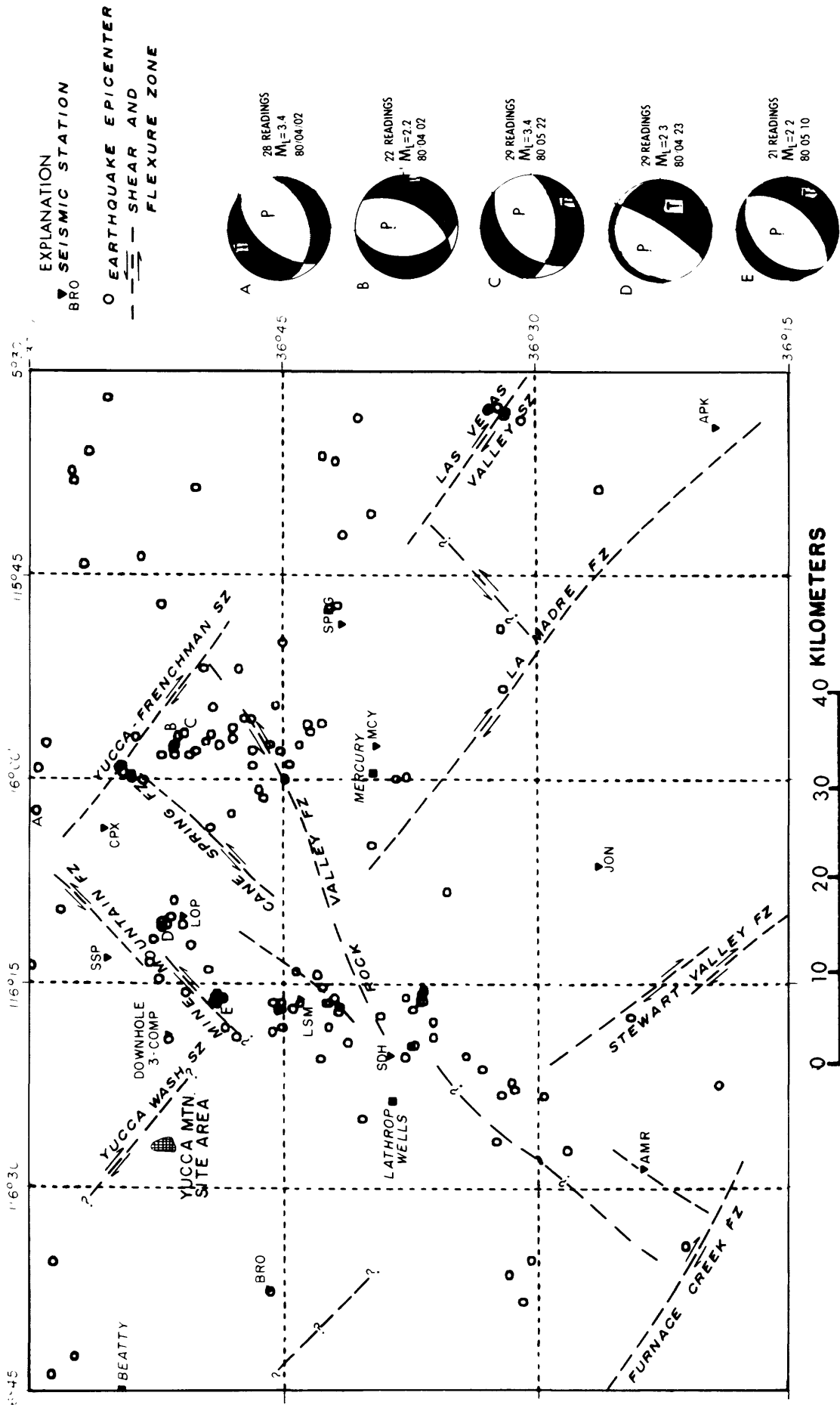


Figure 10.--A, B, and C quality epicenters near the Yucca Mountain site area.

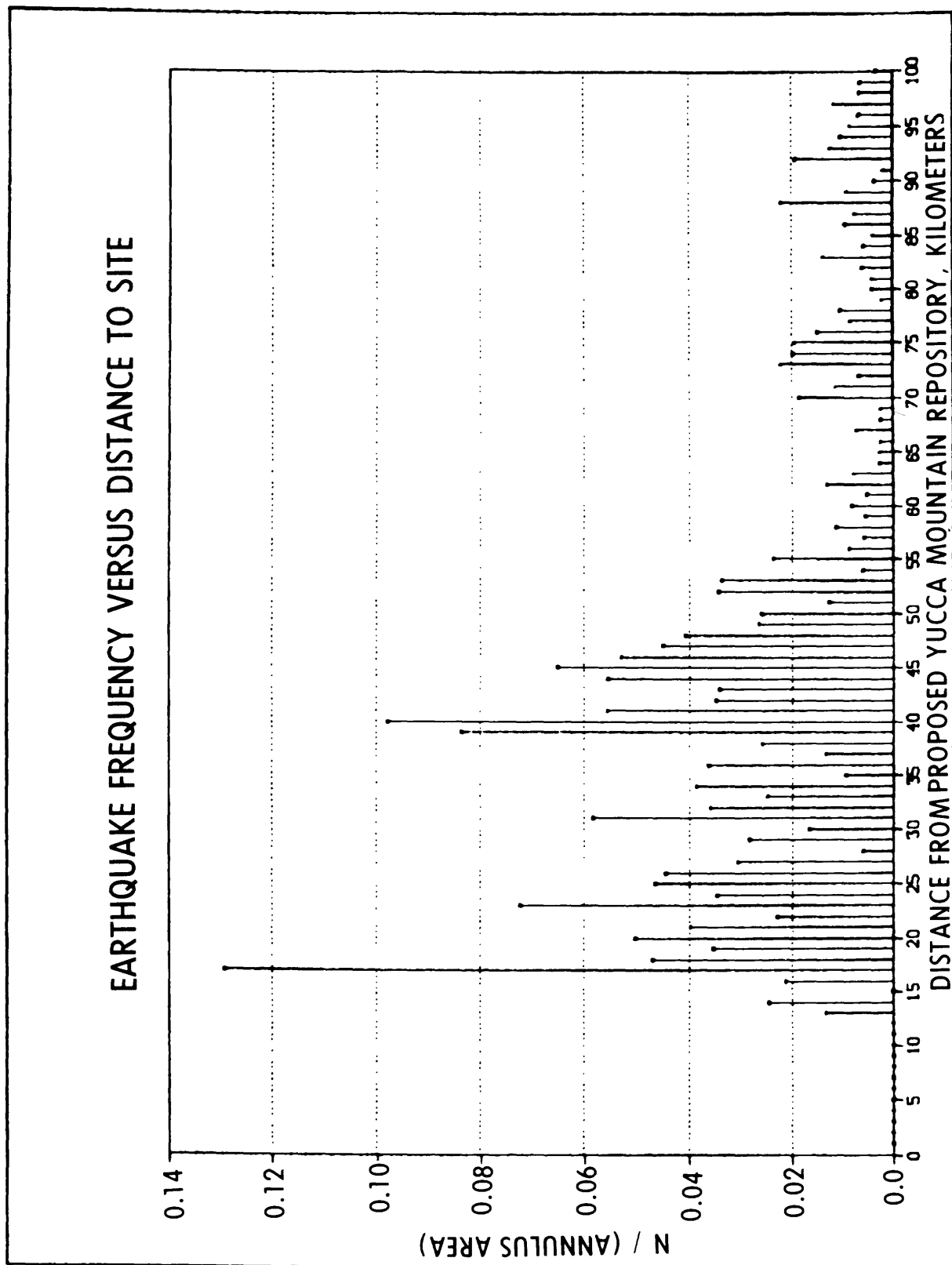


Figure 11.--Number of earthquakes per unit area in ring annuli centered at Yucca Mountain versus distance to the annulus mid-point (R).

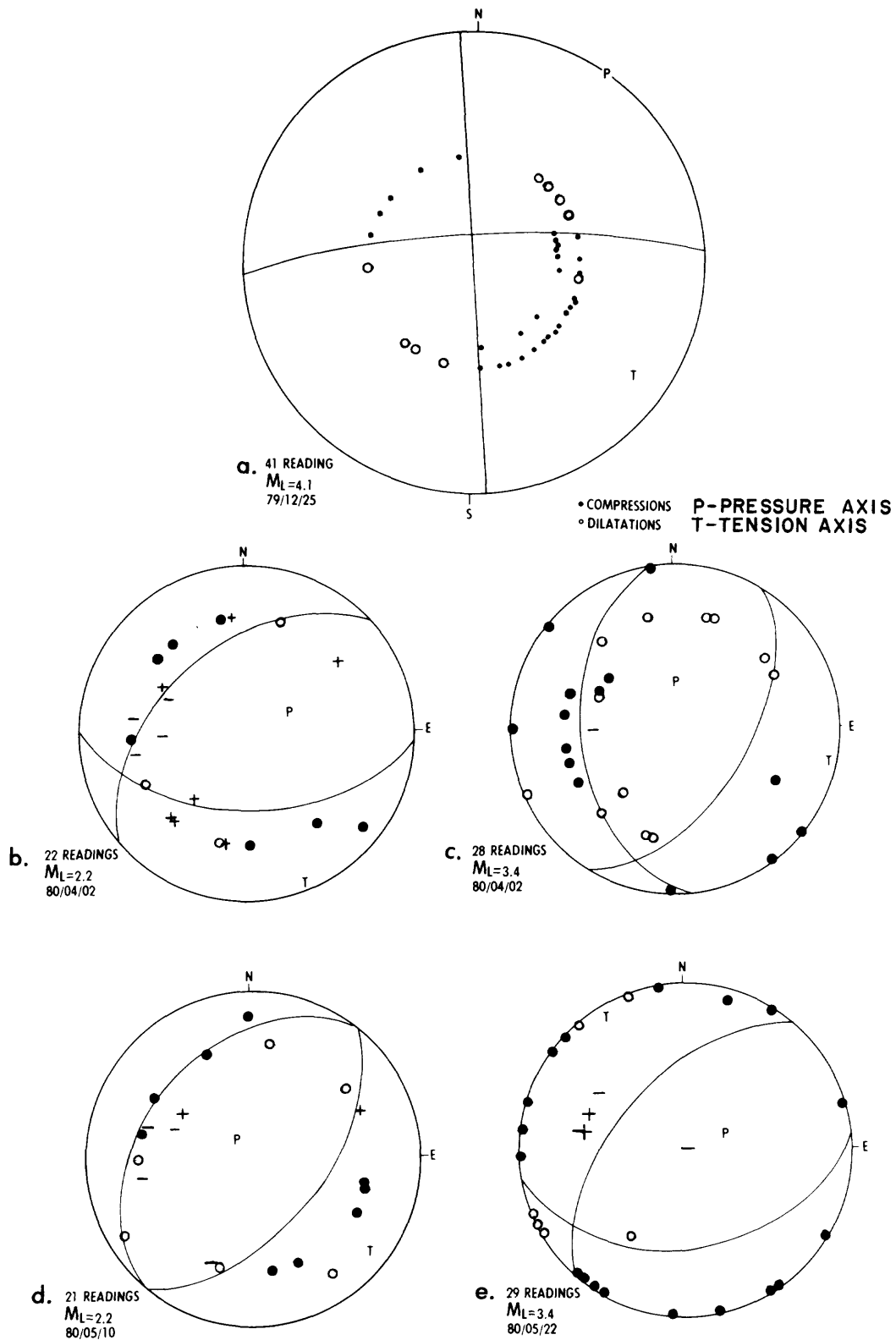


Figure 12.--First motion directions and inferred local mechanisms for selected earthquakes.

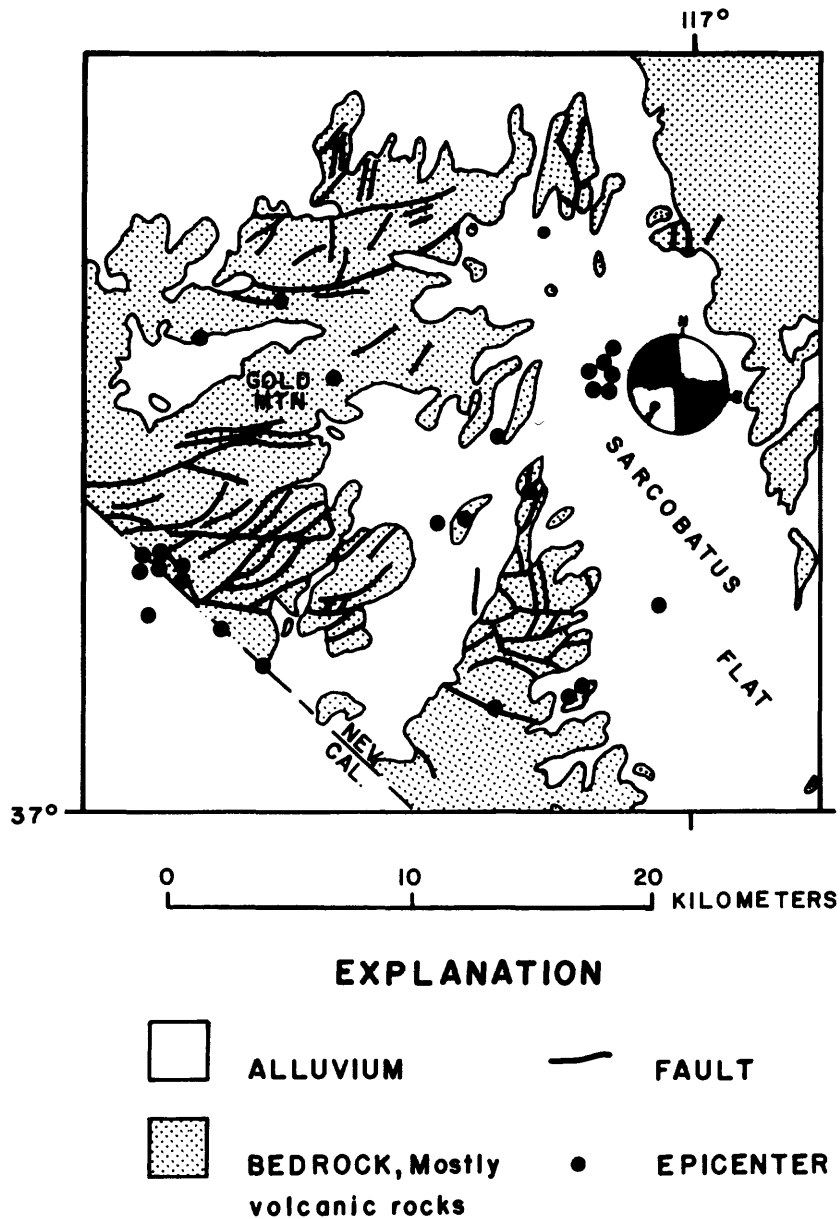


Figure 13.--Location of epicenters (12/25/79-12/31/80) showing the focal mechanism for the  $M_L = 4.1$  earthquake in the Gold Mountain-Sarcobatus Flat area.

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 magnitudes 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.



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

CODE	STATION	PERIOD OF OPERATION	STATION CODE LATITUDE	LONGITUDE	ELEVATION	SEISMOMETER	GAIN
		(DAY/MONTH/YEAR)	(DEG MINUTES)	(DEG MINUTES)	(METERS)	MODEL	(DB)
AMR	Amargosa, Cal.	24/07/78-present	36 23.86 N	116 28.45 W	720	L-4C	84
APK	Angels Peak, Nev.	15/06/75-present	36 19.17 N	115 34.46 W	2680	S-13 to 21/3/81 L-4C 21/3/81-pr.	84
BGB	Big Butte, Nev.	23/01/79-present	37 02.27 N	116 13.66 W	1720	L-4C	84
BLT	Helted Range, Nev.	30/05/79-present	37 27.68 N	116 08.09 W	1820	L-4C	84
YMT!	Black Mountain, Nev.	26/02/80-present	37 17.02 N	116 32.02 W	1920	L-4C	84
BR0	Bare Mountain, Nev.	28/11/78-present	36 45.76 N	116 37.52 W	920	L-4C	84
CDH1	Calico Hills, Nev.	01/02/80-present	36 51.62 N	116 19.05 W	1387	L-1-3Ds (vert.)	90
CDH5	Calico Hills, Nev.	01/02/80-present	36 51.62 N	116 19.05 W	1055	L-1-3Ds (horiz.)	108
CPX	CP-1, Nev.	--/--/77-01/03/80*	36 55.73 N	116 03.50 W	1285	NGC-21 to 5/8/80 L-4C 5/8/80-pr.	84
CTS	Cactus Peak, Nev.	24/04/79-present	37 38.40 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	Echo 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 Pahranaqat Rg, Nev	23/01/79-present*	37 10.12 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
GLR	Groom Lake Road, Nev.	20/11/75-present*	37 11.96 N	116 01.06 W	1435	L-4C	84
GMN	Gold Mountain, Nev.	13/07/79-present*	37 18.01 N	117 15.58 W	2155	L-4C	84
GMR	Groom Range, Nev.	23/01/79-present	37 20.03 N	115 46.27 W	1580	L-4C	84
GVH	Gravevine, Cal.	28/11/78-present	37 00.09 N	117 20.55 W	1190	L-4C	84
GWV	Greenwater Valley, Cal.	24/07/78-present	36 11.20 N	116 40.24 W	1540	L-4C	84
JOH	Johnnie, Nev.	24/07/78-present*	36 26.39 N	116 06.18 W	920	L-4C	84
KRN	Kawich Range, Nev.	30/05/79-23/04/80	37 42.37 N	116 20.07 W	2570	L-4C	84
KRNA	Kawich Range, Nev.	23/04/80-present	37 45.00 N	116 22.83 W	1980	L-4C	84
LCH	Last Chance Range, Cal.	13/07/79-present*	37 14.08 N	117 38.84 W	1455	L-4C	84
LEE	Leeds, Utah	01/01/71-01/06/80	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
LSM	Little Skull Mt., Nev.	13/12/79-present	36 44.34 N	116 16.31 W	1140	S-13	84
LSN	Little Skull Mt., 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 16.85 W	300	L-4C	84
MCX	Mercury, Nev.	15/06/77-07/03/80	36 39.37 N	115 59.45 W	1160	S-13	84
MCY	Mercury, Nev.	07/03/80-present	36 39.70 N	115 57.73 W	1285	S-13	84
MGM	Magruder Mountain, 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.

MTI	Mount Irish, Nev.	08/06/79-present*	37 40.60 N	115 16.36 W	1525	L-4C	84
MZP	Montezuma Peak, Nev.	13/07/79-present	37 42.04 N	117 22.98 W	2375	L-4C	84
NEL	Nelson, Nev.	01/01/71-01/06/80	35 42.73 N	114 50.62 W	1052	Benioff	
NMN	Nasa Mountain, Nev.	28/11/78-present	37 04.85 N	116 49.09 W	1500	L-4C	84
NOP	Nopah Range, Cal.	24/07/78-present	36 07.68 N	116 09.16 W	970	L-4C to 25/4/80 S-13 25/4/80-pr.	84 84
NPN	North Pahroc Rg, Nev.	08/06/79-present*	37 39.16 N	114 56.22 W	1650	L-4C	84
PGE	Panamint Range, Cal.	28/11/78-present*	36 20.93 N	117 03.95 W	1850	L-4C	84
PPK	Piper Mountain, Cal.	13/07/79-present*	37 25.58 N	117 54.43 W	1830	L-4C	84
PRN	Pahroc Range, Nev.	21/01/72-present*	37 24.42 N	115 02.99 W	1470	NGC-21 to 19/6/80 S-13 19/6/80-pr.	84 84
QCS	Queen City Summit, Nev.	08/06/79-present	37 46.07 N	115 54.98 W	1890	L-4C	84
QSM	Queen of Sheba Mine, Ca	28/11/78-present	35 57.93 N	116 52.10 W	670	L-4C	84
RVE	Reveille Range, Nev.	08/06/79-present	38 01.18 N	116 11.51 W	2290	L-4C	84
SDH	Striped Hills, Nev.	24/07/78-present	36 38.73 N	116 20.29 W	1055	L-4C	84
SGV	South Grapevine Mts, Ca	28/11/78-present	36 58.87 N	117 01.94 W	1565	L-4C	84
SHRG	Sheep Range, Nev.	22/05/79-present	36 30.27 N	115 09.31 W	1645	L-4C	84
SPRG	Spotted Range, Nev.	28/05/79-present	36 41.64 N	115 48.56 W	1235	L-4C	84
SRG	Seaman Range, Nev.	08/06/79-present*	37 52.93 N	115 04.08 W	1645	L-4C	84
SSP	Shoshone Peak, Nev.	10/10/73-present*	36 55.50 N	116 13.11 W	2065	NGC-21 to 25/5/80 L-4C 27/5/80-pr.	84 84
SVP	Silver Peak Range, Nev.	13/07/79-present*	37 42.90 N	117 48.05 W	2620	L-4C	84
TMO	Tin Mountain, Cal.	28/11/78-present	36 48.32 N	117 24.48 W	2195	L-4C	84
TNP	Tonopah, Nev.	31/08/64-present	38 04.92 N	117 13.08 W	1931	Benioff	
TPK	Tolicha Peak, Nev.	11/06/79-12/02/80*	37 16.11 N	116 48.26 W	2080	L-4C	84
TPU	Templute Mountain, Nev.	08/06/79-present*	37 36.30 N	115 38.95 W	1915	L-4C	84
WRN	Worthington Mts., Nev.	08/06/79-present	37 58.90 N	115 35.30 W	1760	L-4C	84

\* INDICATES STATION HAVING POLARITY REVERSAL (SEE FOLLOWING TABLE).

\*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 Pahranaqat 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	Jonnie, 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
WRN	Worthington Mts., Nev.	28/6/79 to 29/8/79

## Appendix B: Input Parameters to HYP071

### APPENDIX B

HYPOCENTER PARAMETERS FOR LOCAL EVENTS ARE COMPUTED BY PROGRAM HYP071 (LEE AND LAHR, 1975). THE PROVISIONAL CRUSTAL MODEL EMPLOYED IS:

DEPTH TO TOP OF LAYER (KM)	P-WAVE VELOCITY (KM/SEC)
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0.0	3.8
1.7	6.15
24.0	7.7
46.0	8.1

VALUES OF TEST VARIABLES EMPLOYED IN HYP071 ARE:

TEST(1) = 0.1 SEC	TEST(5) = 5. KM	TEST(9) = 0.0035
TEST(2) = 30.0 KM	TEST(6) = 1.0	TEST(10) = 100. KM
TEST(3) = 0.5	TEST(7) = -0.87	TEST(11) = 8.
TEST(4) = 0.05 KM	TEST(8) = 2.00	TEST(12) = 0.5
		TEST(13) = 1. KM

PERTINENT CONTROL CARD OPTIONS ARE:

ZTR = 5.0 KM

XNEAR = 10 KM

XFAR = 220 KM

POS = 1.75 (P/S VELOCITY RATIO)

HYPOCENTER SOLUTIONS FOR LOCAL EARTHQUAKES ARE DESIGNATED EITHER "FIXED DEPTH SOLUTION," OR "FREE DEPTH SOLUTION." ALL COMPUTATIONS, EXCEPT THOSE DESIGNATED "PROBABLE BLAST," ALLOW THE DEPTH TO GO FREE FROM THE STARTING DEPTH IF THE DATA ARE OF SUFFICIENTLY GOOD QUALITY; IF NOT, THE DEPTH REMAINS FIXED AT THE STARTING VALUE, ZTR, THE NOMINAL DEPTH FOR THE SPECIFIC SOURCE AREA.

TELESEISMS ARE DESIGNATED "TELESEISMIC SOLUTION." THE HYPOCENTER PARAMETERS ARE TAKEN FROM THE USGS PUBLICATION, "PRELIMINARY DETERMINATION OF EPICENTERS, MONTHLY LISTING." CALCULATED TRAVEL-TIMES AND DERIVATIVES ARE DETERMINED FROM LINEAR INTERPOLATION OF JEFFREYS-BULLEN TRAVEL-TIME TABLE ENTRIES.

THE P/S RATIO WAS REVISED FROM THE VALUE 1.78 USED IN THE 1979 DATA REPORT TO THE CURRENT VALUE OF 1.75. THE CURRENT VALUE WAS OBTAINED BY PERFORMING A LEAST-SQUARES ANALYSIS OF S-P AND P-ORIGIN TIMES FOR APPROXIMATELY 100 A AND B QUALITY EARTHQUAKE SOLUTIONS CHOSEN FROM THE CATALOGUE OF SOUTHERN GREAT BASIN EVENTS FROM AUGUST 1978, TO JUNE 1980. THE SOLUTION WAS OBTAINED BY TREATING BOTH P-0 AND S-P TIMES AS RANDOM VARIABLES.

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## LOCAL HYPOCENTER SUMMARY

1980	ORIGIN TIME (UTC)	LAT	LONG	DEPTH* (KM)	AVFM	AVXM	GEOGRAPHIC REGION
JAN 06	4 22 18.99	36.52 N	116.38 W	3.9 F	1.4		LATHROP WELLS
08	15 11 59.33	37.30 N	117.63 W	4.3 F	2.3		MAGRUDER MOUNTAIN
08	16 6 8.32	37.30 N	117.63 W	3.4 F	2.1		MAGRUDER MOUNTAIN
08	16 38 1.38	36.93 N	116.06 W	8.1 F	1.6		LATHROP WELLS
08	16 51 2.09	36.75 N	115.83 W	5.9 F	1.7		MERCURY
09	4 34 22.03	37.20 N	116.35 W	0.0 F	1.6		SILENT CANYON - PAHUTE MESA
09	19 6 20.07	37.15 N	117.39 W	8.3 F	1.6		MT. JACKSON
11	11 36 26.44	36.86 N	116.15 W	12.0 F	1.4		LATHROP WELLS
11	21 46 32.24	37.57 N	114.31 W	2.8 F	2.5		ELY RANGE
11	23 21 44.79	36.82 N	116.28 W	5.0 D	1.1		LATHROP WELLS
12	11 40 59.69	36.82 N	116.27 W	1.0 F	1.5		LATHROP WELLS
12	19 13 26.40	36.82 N	116.27 W	4.9 F	1.5		LATHROP WELLS
13	4 40 59.81	36.81 N	116.27 W	1.2 F	1.1		LATHROP WELLS
13	4 44 44.07	36.82 N	116.26 W	1.6 F			LATHROP WELLS
13	7 14 23.54	36.82 N	116.26 W	1.9 F	1.4		LATHROP WELLS
13	7 48 51.59	37.00 N	117.31 W	5.0 D	1.1		MT. JACKSON
14	2 4 33.01	37.23 N	115.46 W	17.6 F	1.9		ALAMO
15	8 49 53.36	37.28 N	117.07 W	1.3 F	2.1		MT. JACKSON
15	12 21 21.49	37.07 N	116.05 W	5.3 F	1.4		SILENT CANYON - YUCCA FLAT
15	14 21 11.09	37.53 N	116.37 W	11.3 F	1.1		QUARTZITE MOUNTAIN
15	20 28 21.96	36.18 N	117.57 W	1.2 F	3.8		DARWIN
16	17 58 42.77	37.29 N	117.06 W	4.7 F	1.7		MT. JACKSON
20	19 4 53.68	36.88 N	116.20 W	5.0 D	1.2		LATHROP WELLS
21	20 46 45.06	37.14 N	114.97 W	0.2 F	1.6		DELAMAR MOUNTAINS
23	23 50 24.65	37.20 N	115.48 W	2.4 F	2.4		ALAMO
24	0 34 1.37	37.16 N	115.46 W	9.4 F	1.8		ALAMO
24	8 59 41.12	37.13 N	115.51 W	15.7 F	1.7		GROOM LAKE
25	11 40 11.18	36.60 N	116.32 W	10.9 F	0.9		LATHROP WELLS

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	36.62	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	117.41	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	37.16	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	HIKO
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



MAR	01	7	36	12.56	37.26 N	115.62 W	8.7 F	1.6	GROOM LAKE
	03	3	18	50.52	37.52 N	117.74 W	8.7 F	0.9	SILVER PEAK
	03	16	59	55.12	37.50 N	116.54 W	7.4 F	1.9	STINKING SPRING
	06	7	45	28.85	35.72 N	117.15 W	1.9 F		SEARLES LAKE
	07	16	50	7.41	37.33 N	117.31 W	9.5 F	0.6	MT. JACKSON
	07	18	12	11.50	37.79 N	115.86 W	12.1 F	2.0	WORTHINGTON PEAK
	08	18	4	15.47	37.51 N	115.35 W	12.7 F	1.0	HIKO
	12	10	28	47.73	37.24 N	117.15 W	12.3 F	0.4	MT. JACKSON
	14	1	34	20.90	36.54 N	116.44 W	11.7 F	1.6	LATHROP WELLS
	14	11	12	39.75	37.19 N	116.67 W	17.2 F	1.9	THIRSTY CANYON
	14	20	52	51.80	36.60 N	116.30 W	10.9 F	1.2	LATHROP WELLS
	15	3	39	48.97	37.52 N	117.75 W	13.3 F		SILVER PEAK
	15	4	46	24.85	36.81 N	116.01 W	0.6 F	3.2	LATHROP WELLS
	17	19	17	16.03	36.36 N	116.57 W	4.3 F	1.6	FURNACE CREEK
	18	12	56	49.51	37.78 N	117.00 W	1.8 F	2.2	STINKING SPRING
	19	4	24	52.94	37.37 N	117.59 W	21.6 F	1.3	MAGRUDER MOUNTAIN
	22	3	5	53.94	37.28 N	117.56 W	6.3 F	0.9	MAGRUDER MOUNTAIN
	25	22	48	44.44	37.60 N	117.64 W	2.5 F	1.8	SILVER PEAK
	26	3	13	7.09	36.86 N	116.17 W	5.0 D		LATHROP WELLS
	26	5	15	43.73	37.17 N	117.61 W	11.1 F	1.3	MAGRUDER MOUNTAIN
	27	20	1	7.02	37.12 N	117.36 W	6.6 F	1.0	MT. JACKSON
	28	2	8	43.78	36.32 N	116.38 W	6.1 F	2.0	ASH MEADOWS
	28	21	3	36.82	36.71 N	116.27 W	7.1 F	1.2	LATHROP WELLS
	31	13	3	56.96	36.86 N	116.18 W	8.4 F	1.7	LATHROP WELLS
APR	02	14	15	12.07	36.86 N	116.32 W	34.0 F	0.8	LATHROP WELLS
	02	17	56	29.83	36.90 N	116.00 W	8.9 F	1.5	MERCURY
	02	18	13	5.50	36.83 N	115.99 W	9.6 F	1.5	MERCURY
	02	18	20	41.43	36.86 N	115.96 W	0.9 F	3.4	MERCURY
	02	21	14	53.76	36.87 N	115.97 W	6.1 F	2.2	MERCURY
	03	2	18	9.70	36.90 N	115.99 W	9.1 F	1.6	MERCURY
	03	6	40	43.78	36.84 N	115.97 W	11.2 F	1.7	MERCURY
	03	15	22	35.79	36.86 N	115.96 W	8.5 F	1.7	MERCURY
	03	17	15	13.42	36.86 N	115.97 W	5.5 F	1.8	MERCURY

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	116.59 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 41 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 43 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 37.94	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 13 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

	08	11 36 39.05	37.16 N	117.41 W	7.2 F	1.8	MT. JACKSON
	10	11 3 32.82	36.81 N	116.27 W	2.3 F	2.2	LATHROP WELLS
	11	9 28 54.08	36.57 N	116.34 W	7.9 F	1.7	LATHROP WELLS
	13	2 33 41.84	36.82 N	116.06 W	17.3 F	1.0	LATHROP WELLS
	14	8 33 31.96	36.84 N	116.20 W	8.0 F	1.5	LATHROP WELLS
	15	1 30 38.60	36.50 N	115.90 W	5.0 D	1.4	MERCURY
	16	16 49 8.20	37.07 N	116.06 W	8.6 F	1.9	SILENT CANYON - YUCCA FLAT
	18	1 43 11.44	36.82 N	116.27 W	9.3 F	1.3	LATHROP WELLS
	18	17 56 25.58	36.93 N	116.01 W	33.9 F	1.2	LATHROP WELLS
	19	4 16 35.37	37.08 N	117.07 W	1.7 F	2.9	MT. JACKSON
	22	13 0 0.80	36.99 N	116.04 W	1.9 F	3.4	LATHROP WELLS
JUN	03	9 4 28.41	36.89 N	116.00 W	4.8 F	1.6	LATHROP WELLS
	04	19 54 35.79	37.58 N	116.47 W	8.7 F	2.1	QUARTZITE MOUNTAIN
	06	19 43 17.18	36.89 N	115.73 W	1.1 F	1.4	MERCURY
	07	2 8 55.22	36.92 N	116.97 W	22.2 F	2.1	CHLORIDE CLIFF
	07	12 0 32.82	36.61 N	116.27 W	9.5 F	1.7	LATHROP WELLS
	07	12 1 41.23	36.61 N	116.26 W	7.3 F	1.3	LATHROP WELLS
	07	12 21 54.15	36.61 N	116.26 W	3.2 F	1.1	LATHROP WELLS
	08	11 40 6.68	37.34 N	114.94 W	4.7 F	2.3	DELAMAR MOUNTAINS
	09	7 53 32.73	36.78 N	115.98 W	5.0 D	2.1	MERCURY
	10	15 19 5.31	37.15 N	117.34 W	5.0 D	1.8	MT. JACKSON
	15	1 17 38.62	36.80 N	116.04 W	1.4 F	1.3	LATHROP WELLS
	18	17 57 11.63	36.70 N	115.61 W	0.8 F	2.0	MERCURY
	19	2 33 21.71	36.71 N	116.25 W	1.0 F	1.6	LATHROP WELLS
	19	4 4 8.48	36.53 N	116.37 W	6.3 F	1.4	LATHROP WELLS
	20	20 40 58.00	36.67 N	116.42 W	6.3 F	1.3	LATHROP WELLS
JUL	03	2 52 10.37	36.87 N	116.18 W	8.5 F	1.1	LATHROP WELLS
	03	21 15 42.35	36.32 N	114.94 W	0.1 F	2.3	HOOVER DAM
	04	7 3 2.98	36.70 N	116.28 W	5.8 F	1.4	LATHROP WELLS
	04	8 21 39.57	36.81 N	116.69 W	2.4 F	1.7	CHLORIDE CLIFF
	05	13 26 8.26	36.76 N	116.63 W	7.8 F	1.6	CHLORIDE CLIFF
	07	15 13 14.81	36.74 N	115.82 W	8.5 F	1.6	MERCURY
	09	0 36 58.89	36.86 N	118.42 W	0.7 F	2.6	MT. WHITNEY

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	HIKO
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	115.94 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	115.96 W	5.0 D	1.5	MERCURY
14	2	51	48.27	36.80 N	115.94 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	116.14 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	2.4	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	1.5	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	116.31 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

20	9 47	19.60	37.02 N	116.00 W	9.6 F	1.8	SILENT CANYON - YUCCA FLAT
20	23 4	18.78	36.71 N	116.30 W	5.7 F	1.2	LATHROP WELLS
21	2 8	41.81	36.78 N	116.06 W	2.0 F	0.7	LATHROP WELLS
21	4 7	59.95	37.08 N	116.19 W	5.0 D	1.7	SILENT CANYON - YUCCA FLAT
22	10 50	14.89	36.95 N	115.64 W	14.5 F	2.4	MERCURY
22	14 11	43.26	36.66 N	115.73 W	9.8 F	1.9	MERCURY
22	20 0	48.32	37.14 N	115.34 W	0.0 F	2.0	ALAMO
22	20 28	14.09	36.96 N	115.62 W	5.0 F	2.0	MERCURY
23	10 3	50.68	36.70 N	115.79 W	2.1 F	3.0	MERCURY
23	10 5	49.09	36.66 N	115.67 W	15.5 F	1.9	MERCURY
23	13 18	49.19	37.04 N	115.50 W	21.1 F	2.0	GROOM LAKE
24	11 39	43.31	37.05 N	116.24 W	7.2 F	1.8	SILENT CANYON - YUCCA FLAT
25	20 30	50.30	37.25 N	116.47 W	2.2 F	3.4	SILENT CANYON - NORTH
25	21 14	11.08	37.26 N	116.47 W	1.6 F	3.4	SILENT CANYON - NORTH
25	23 10	40.35	37.26 N	116.49 W	0.7 F	4.1	SILENT CANYON - NORTH
26	5 0	4.28	37.23 N	116.31 W	23.4 F	1.4	SILENT CANYON - NORTH
17	22 3	14.17	37.17 N	115.27 W	5.0 D	1.5	ALAMO
26	17 19	57.67	36.70 N	115.65 W	0.4 F	2.2	MERCURY
26	18 33	7.57	36.96 N	115.65 W	6.0 F	2.0	MERCURY
27	9 42	9.04	36.65 N	115.25 W	1.0 F	2.2	HAYFORD PEAK
27	13 50	28.09	36.92 N	115.53 W	20.1 F	1.7	MERCURY
28	5 0	29.67	36.91 N	115.98 W	1.6 F	1.6	MERCURY
28	14 48	46.81	37.17 N	115.42 W	5.0 D	1.9	ALAMO
28	18 55	55.98	36.72 N	115.94 W	0.1 F	1.6	MERCURY
28	19 38	10.83	37.23 N	115.42 W	0.9 F	2.7	ALAMO
31	3 48	9.89	36.70 N	115.79 W	9.1 F	2.0	MERCURY
31	19 22	16.60	37.07 N	116.00 W	2.1 F	3.3	SILENT CANYON - YUCCA FLAT
31	19 26	15.98	37.06 N	116.00 W	0.9 F	3.9	SILENT CANYON - YUCCA FLAT
AUG 06	3 42	4.24	37.05 N	116.13 W	0.6 F	1.6	SILENT CANYON - YUCCA FLAT
06	9 37	34.49	37.25 N	116.48 W	8.1 F	2.7	SILENT CANYON - NORTH
07	3 21	59.24	36.44 N	115.64 W	10.6 F	2.2	CHARLESTON PEAK
07	9 53	37.18	37.31 N	116.29 W	1.6 F	2.2	SILENT CANYON - NORTH
08	9 51	35.85	37.13 N	116.18 W	0.2 F	2.0	SILENT CANYON - YUCCA FLAT

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	1.3	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	116.29	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

28	2	10	26.29	36.74	N	115.98	W	5.0	D	1.6	MERCURY
28	17	12	28.53	36.80	N	116.01	W	2.1	F	1.5	LATHROP WELLS
29	5	1	30.09	36.98	N	116.73	W	6.0	F	2.1	CHLORIDE CLIFF
29	5	54	32.24	36.84	N	115.97	W	6.8	F	1.2	MERCURY
29	20	48	3.44	36.09	N	117.71	W	0.8	F	2.8	DARWIN
30	19	18	6.73	37.12	N	117.42	W	8.9	F	2.3	MT. JACKSON
SEP 03	1	31	17.90	37.19	N	117.57	W	6.9	F	2.0	MAGRUDER MOUNTAIN
03	1	31	18.04	37.20	N	117.57	W	4.1	F	2.2	MAGRUDER MOUNTAIN
05	5	11	50.84	36.71	N	116.34	W	5.3	F	0.9	LATHROP WELLS
05	11	42	38.18	36.84	N	116.26	W	1.2	F	1.0	LATHROP WELLS
11	14	59	59.92	36.97	N	116.16	W	0.1	F	2.7	LATHROP WELLS
11	20	58	3.06	36.59	N	116.14	W	9.6	F	1.8	LATHROP WELLS
11	22	19	6.33	36.63	N	116.34	W	6.0	F	2.1	LATHROP WELLS
12	2	21	33.64	36.74	N	115.43	W	0.3	F	3.0	HAYFORD PEAK
12	7	41	56.44	37.29	N	115.00	W	2.8	F	2.8	ALAMO
13	5	54	25.67	37.13	N	116.32	W	9.4	F	2.3	SILENT CANYON - PAHUTE MESA
13	10	48	38.14	37.55	N	115.84	W	0.1	F	2.3	WORTHINGTON PEAK
13	14	58	18.67	37.16	N	115.44	W	0.1	F	2.6	ALAMO
14	14	19	17.87	36.82	N	115.95	W	9.4	F	1.9	MERCURY
17	4	48	40.51	38.05	N	116.22	W	0.3	F	2.4	WARM SPRINGS
18	11	13	46.73	36.98	N	116.58	W	6.7	F	1.8	CHLORIDE CLIFF
19	18	0	43.94	36.71	N	116.94	W	1.0	F	2.7	CHLORIDE CLIFF
19	18	0	47.59	36.39	N	117.01	W	5.0	D	2.9	PANAMINT BUTTE
22	17	22	51.58	37.24	N	116.47	W	8.8	F	3.0	SILENT CANYON - NORTH
22	19	6	49.32	36.89	N	116.81	W	0.5	F	2.3	CHLORIDE CLIFF
22	21	28	40.70	37.25	N	116.53	W	8.6	F	2.6	THIRSTY CANYON
23	12	28	28.49	36.91	N	115.82	W	12.2	F	1.8	MERCURY
24	6	17	23.99	36.59	N	115.66	W	9.2	F	2.1	MERCURY
25	16	5	0.85	37.06	N	116.06	W	1.1	F	3.0	SILENT CANYON - YUCCA FLAT
26	18	59	49.48	36.70	N	116.44	W	0.7	F	1.2	LATHROP WELLS
27	9	18	46.38	36.66	N	115.96	W	5.0	D	2.2	MERCURY
28	15	6	14.46	36.89	N	115.95	W	0.3	F	1.5	MERCURY
29	21	25	53.93	36.85	N	116.01	W	0.1	F	1.7	LATHROP WELLS

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	115.94 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 41.28	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	5.0 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



	24	19 27 45.10	37.08 N	116.01 W	8.6 F	2.4	SILENT CANYON - YUCCA FLAT
	25	0 27 40.59	38.20 N	117.23 W	0.6 F	2.8	TONOPAH
	25	0 30 59.69	37.75 N	116.31 W	0.7 F	3.7	QUARTZITE MOUNTAIN
	25	1 6 46.30	37.34 N	114.92 W	0.3 F	2.8	DELAMAR MOUNTAINS
	27	13 22 51.35	36.80 N	116.32 W	3.7 F	2.4	LATHROP WELLS
	27	20 2 28.83	36.01 N	115.14 W	0.6 F	2.7	LAS VEGAS
	31	0 40 33.42	36.73 N	115.93 W	0.8 F	2.5	MERCURY
	31	18 11 9.65	37.19 N	116.18 W	0.0 F	2.1	SILENT CANYON - YUCCA FLAT
	31	18 11 49.28	37.17 N	116.20 W	7.5 F	2.3	SILENT CANYON - YUCCA FLAT
	31	18 15 51.35	37.20 N	116.24 W	13.9 F	2.1	SILENT CANYON - YUCCA FLAT
	31	18 40 57.63	37.14 N	116.25 W	9.0 F	2.4	SILENT CANYON - PAHUTE MESA
	31	18 43 4.45	37.20 N	116.22 W	8.1 F	2.4	SILENT CANYON - NORTH
	31	19 18 13.53	37.05 N	116.16 W	12.2 F	2.4	SILENT CANYON - YUCCA FLAT
	31	19 46 11.39	37.16 N	116.22 W	7.4 F		SILENT CANYON - YUCCA FLAT
NOV	02	23 59 35.63	37.34 N	116.98 W	9.2 F	2.1	THIRSTY CANYON
	03	2 17 27.19	37.53 N	115.31 W	14.7 F	2.1	HIKO
	03	3 30 26.85	36.63 N	116.27 W	22.5 F	2.2	LATHROP WELLS
	03	9 10 25.01	36.63 N	116.02 W	11.2 F	3.3	LATHROP WELLS
	03	14 8 37.68	36.66 N	116.08 W	12.7 F	2.4	LATHROP WELLS
	04	6 49 50.88	37.67 N	114.97 W	1.3 F	2.8	HIGHLAND PEAK
	04	7 39 51.16	36.24 N	117.12 W	1.9 F	2.7	PANAMINT BUTTE
	04	8 6 38.42	36.65 N	116.10 W	20.9 F	2.2	LATHROP WELLS
	05	9 46 15.77	37.14 N	115.00 W	1.5 F	2.4	ALAMO
	06	5 52 31.89	36.80 N	115.99 W	1.8 F	1.6	MERCURY
	06	10 41 21.81	36.71 N	115.93 W	2.8 F	1.5	MERCURY
	08	22 27 17.61	37.18 N	115.83 W	0.2 F	2.1	GROOM LAKE
	09	2 25 29.36	36.13 N	116.15 W	5.0 D	2.6	ASH MEADOWS
	09	7 8 45.67	37.77 N	116.31 W	3.7 D	2.8	QUARTZITE MOUNTAIN
	09	13 58 35.97	36.77 N	116.01 W	5.0 D	1.8	LATHROP WELLS
	11	1 43 51.42	36.74 N	116.23 W	5.0 D	1.6	LATHROP WELLS
	11	8 33 4.01	37.30 N	116.47 W	4.8 D	2.8	SILENT CANYON - NORTH
	11	11 4 59.01	37.28 N	116.51 W	9.0 F	2.3	THIRSTY CANYON
	11	12 36 12.92	36.70 N	116.27 W	5.0 D	2.0	LATHROP WELLS

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	116.64 W	5.7 F	2.3	CHLORIDE CLIFF
22	22 6 32.31	36.53 N	115.81 W	9.4 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	1.6	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

08	20	5	13.69	36.79	N	115.48	W	5.0	D	1.5	HAYFORD PEAK
10	19	34	47.37	38.21	N	117.23	W	0.1	F	2.7	TONOPAH
10	21	44	33.13	36.69	N	114.61	W	9.0	F	3.0	MOAPA
14	0	21	40.52	37.39	N	116.06	W	1.7	F	2.2	SILENT CANYON - NORTH
14	6	5	58.21	37.11	N	116.75	W	4.4	F	2.5	THIRSTY CANYON
14	11	12	55.09	36.53	N	116.61	W	6.7	F	2.1	CHLORIDE CLIFF
15	2	34	46.54	36.63	N	115.41	W	0.4	F	2.6	HAYFORD PEAK
16	21	17	40.96	37.20	N	115.82	W	5.0	D	2.1	GROOM LAKE
17	7	28	51.47	37.03	N	116.21	W	5.9	F	2.3	SILENT CANYON - YUCCA FLAT
17	15	23	52.35	37.33	N	116.29	W	0.8	F	3.4	SILENT CANYON - NORTH
17	15	25	45.47	37.35	N	116.33	W	2.2	F	3.4	SILENT CANYON - NORTH
17	15	51	31.42	37.34	N	116.33	W	19.3	F	3.8	SILENT CANYON - NORTH
17	16	1	18.40	36.94	N	115.74	W	2.5	F	3.8	MERCURY
18	0	30	11.80	38.04	N	116.83	W	7.3	F	2.6	BLACK BUTTE
19	14	47	32.92	36.32	N	116.31	W	0.1	F	2.3	ASH MEADOWS
19	19	10	33.96	36.95	N	116.71	W	6.7	F	2.2	CHLORIDE CLIFF
20	0	38	2.82	38.37	N	117.38	W	0.9	F	3.5	TONOPAH
20	0	47	54.10	36.53	N	115.56	W	0.8	F	2.4	MERCURY
20	1	46	16.86	36.53	N	115.55	W	1.3	F	2.6	MERCURY
20	6	24	27.71	36.75	N	116.00	W	6.0	F	2.0	LATHROP WELLS
20	18	18	43.36	36.51	N	115.56	W	1.7	F	2.4	MERCURY
20	18	32	26.54	36.54	N	115.56	W	0.9	F	2.2	MERCURY
21	14	54	45.53	37.43	N	115.00	W	3.9	F	2.5	DELAMAR MOUNTAINS
21	22	13	45.41	36.78	N	116.23	W	0.4	F	1.2	LATHROP WELLS
22	1	34	17.36	36.55	N	115.55	W	9.8	F	2.1	MERCURY
22	1	35	26.88	37.00	N	115.44	W	0.1	F	1.5	ALAMO
22	11	42	55.02	37.32	N	116.30	W	1.7	F	2.3	SILENT CANYON - NORTH
22	14	42	25.17	37.22	N	114.71	W	12.3	F	3.1	DELAMAR MOUNTAINS
23	1	14	4.59	36.75	N	116.01	W	2.1	F	1.4	LATHROP WELLS
23	9	5	26.41	36.96	N	117.68	W	0.3	F	3.0	DRY MOUNTAIN
25	17	35	58.97	37.37	N	116.39	W	12.4	F	2.9	SILENT CANYON - NORTH
26	3	21	46.63	36.66	N	115.20	W	5.0	D	2.5	HAYFORD PEAK
26	7	1	18.15	36.65	N	115.44	W	18.7	F	2.5	HAYFORD PEAK

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 D	1.5	LATHROP WELLS
30	19 45 27.57	37.32 N	115.05 W	1.7 F	2.2	ALAMO

# Appendix D: Hypocenters, Phase Readings, Durations, and First Motion Directions for 1980 Earthquakes

## EXPLANATION OF HYPOCENTER SOLUTION COLUMN HEADINGS

DATE - DAY, MONTH, AND YEAR IN COORDINATED UNIVERSAL TIME (UTC)

STA - STATION CODE

PHASE - PHASE IDENTIFICATION  
I OR E INDICATES THE CHARACTER OF PHASE ARRIVAL  
(I = IMPULSIVE, E = EMERGENT)

TIME - ARRIVAL TIME OF PHASE IN HOURS, MINUTES, AND SECONDS (COORDINATED UNIVERSAL TIME)

AMP - GROUND DISPLACEMENT OF PHASE, IN MILLIMICRONS (MU)  
AMPLITUDES REPORTED WITH S PHASES ARE MAXIMUM SURFACE-WAVE DISPLACEMENTS

PER - PERIOD OF PHASE, IN SECONDS

XMAG - STATION MAGNITUDE COMPUTED BY THE METHOD OF EATON, O'NEILL, AND MURDOCK (1970), NOT USED IN THIS BULLETIN.

DUR - DURATION, IN SECONDS, OF CODA OF WAVE TRAIN FROM A LOCAL EVENT

FMAG - STATION MAGNITUDE COMPUTED BY THE METHOD OF LEE, BENNETT, AND MEAGHER (1972)

$$FMAG = -0.87 + 2.0 * \log(DUR) + .0035 * DIST$$

EMPLOYING PRELIMINARY VALUES OF CONSTANTS DETERMINED BY LEE, BENNETT, and MEAGHER (1972)

DIST - GREAT CIRCLE DISTANCE TO EVENT, IN KILOMETERS

AZI - STATION-TO-EPICENTER AZIMUTH TAKEN CLOCKWISE FROM NORTH, IN DEGREES

AIN - ANGLE OF INCIDENCE TO DOWNWARD VERTICAL, IN DEGREES

TOBS - OBSERVED TRAVEL-TIME (O), IN SECONDS

TCAL - CALCULATED TRAVEL-TIME (C), IN SECONDS

RES - PHASE TRAVEL-TIME RESIDUAL, IN SECONDS (O-C)

REMARKS- DESCRIPTIVE INFORMATION.

\*  
EXPLANATION OF PHASE READING COLUMN HEADINGS

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

```

.....
. DATE ORIGIN TIME RMS NO MB TYPE OF SOLUTION .
. LATITUDE ERX ERH M Q .
. LONGITUDE ERY GAP AVFM QS GEOGRAPHIC LOCATION.
. DEPTH ERZ NM AVXM QD .
.....
. PHASE DATA .
. . .
. . .
.....

```

EXPLANATION OF HYPOCENTER SOLUTION VARIABLE NAMES

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

ERX = 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)

Q = SOLUTION QUALITY OF HYPOCENTER  
 Q IS THE AVERAGE OF QS AND QD, WHERE:  
 QS = STATISTICAL RATING OF SOLUTION  
 QD = STATISTICAL RATING OF STATION DISTRIBUTION

QUALITY RATINGS:

Q	EPICENTER	FOCAL DEPTH	
-	-----	-----	
A	EXCELLENT	GOOD	
B	GOOD	FAIR	
C	FAIR	POOR	
D	POOR	POOR	

QS	RMS	ERH	ERZ
--	---	---	---
A	<0.15	<1.0	<2.0
B	<0.30	<2.5	<5.0
C	<0.50	<5.0	
D	OTHERS		

QD	NO	GAP	DERR (ERROR IN DEPTH)
--	---	---	----
A	>6	< 90	<DEPTH OR 5 KM
B	>6	<135	<2*DEPTH OR 10 KM
C	>6	<180	< 50 KM
D	OTHERS		

EXPLANATION OF HYPOCENTER SUMMARY NOTATION

F = DEPTH WAS ALLOWED TO GO FREE OR REMAINED AT THE STARTING DEPTH (15 KM)

D = DEPTH WAS HELD AT A FIXED DEPTH

B = BLAST; DEPTH IS AT OR NEAR 0 KILOMETERS

1980 SOUTHERN GREAT BASIN  
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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 H = 4	22	18.99	UTC	RMS =	0.06	NO =	6								FREE DEPTH SOLUTION
06 LAT =	36.523	N		ERX =	0.2	ERH =	0.3	AVFM =	1.4	Q =	C				
LONG =	116.381	W		ERY =	0.3	GAP =	110	AVXM =		QS =	C				LATHROP WELLS
DEPTH =	3.91	KM		ERZ =	5.8	NM =				QD =	C				
.....															
06	SDH	IPU4	4 22 21.25					11 1.3	14.1	16	100	2.26	2.68	-0.42	
06	AMR	EPD	4 22 22.00					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	JON	EPD	4 22 23.70					7 0.9	26.6	110	95	4.71	4.69	0.01	
06	BRO	EPD	4 22 24.99						34.4	321	94	6.00	5.95	0.04	
06	LOP	EPD	4 22 26.12						41.4	28	93	7.13	7.09	0.03	
06	CPX	EPD4	4 22 27.85						53.5	33	92	8.86	9.05	-0.20	
06	BGB	EP	4 22 28.90						58.7	14	92	9.91	9.91	0.05	
06	SGV	EP 4	4 22 32.40						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	QCS	EP 4	4 22 43.45						144.2	17	53	24.46	23.26	1.20	
.....															
JAN H = 15	11	59.33	UTC	RMS =	0.08	NO =	8								FREE DEPTH SOLUTION
08 LAT =	37.297	N		ERX =	0.5	ERH =	0.6	AVFM =	2.3	Q =	B				
LONG =	117.625	W		ERY =	0.3	GAP =	104	AVXM =		QS =	A				MAGRUDER MOUNTAIN
DEPTH =	4.28	KM		ERZ =	1.0	NM =				QD =	B				
.....															
08	LCH	IPD	15 12 0.98					38 2.3	7.2	196	113	1.65	1.61	0.04	
08	MGM	IPD	15 12 2.80					33 2.2	19.6	35	98	3.47	3.57	-0.10	
08	PPK	IPU	15 12 4.34					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	EPD	15 12 21.20					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	EPD	15 12 22.81						145.1	106	53	23.48	23.35	0.13	
08	GMR	IPD	15 12 26.27					21 2.3	164.4	89	53	26.94	25.85	1.09	
.....															
JAN H = 16	6	8.32	UTC	RMS =	0.06	NO =	6								FREE DEPTH SOLUTION
08 LAT =	37.298	N		ERX =	0.5	ERH =	0.7	AVFM =	2.1	Q =	B				
LONG =	117.625	W		ERY =	0.4	GAP =	104	AVXM =		QS =	A				MAGRUDER MOUNTAIN
DEPTH =	3.39	KM		ERZ =	1.4	NM =				QD =	B				
.....															
08	LCH	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	LOP	EPD	16 6 30.75					26 2.4	138.7	111	53	22.43	22.59	-0.17	
08	QCS	EPD	16 6 34.65						159.9	71	53	26.33	25.35	0.98	
.....															
JAN H = 16	38	1.38	UTC	RMS =	0.70	NO =	5								FREE DEPTH SOLUTION
08 LAT =	36.930	N		ERX =	1.2	ERH =	1.6	AVFM =	1.6	Q =	D				
LONG =	116.060	W		ERY =	1.0	GAP =	139	AVXM =		QS =	D				LATHROP WELLS
DEPTH =	8.12	KM		ERZ =	0.9	NM =				QD =	D				
.....															
08	CPX	EPD	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	EPD	16 38 7.80						30.1	7	103	6.42	5.36	1.21	
08	SPRG	IPD4	16 38 0.11					15 1.6	34.5	140	101	*****	6.06	-7.33	
08	GMR	IPU	16 38 9.42						51.6	30	97	8.04	8.81	-0.77	
08	TPU	IPU	16 38 14.65						83.2	26	94	13.27	13.93	-0.66	
08	NPN	EPD4	16 38 20.91						127.8	51	53	19.53	20.72	-1.19	
08	SRG	EPD4	16 38 23.00						137.4	40	53	21.62	21.96	-0.34	
.....															
JAN H = 16	51	2.09	UTC	RMS =	0.09	NO =	8								FREE DEPTH SOLUTION
08 LAT =	36.750	N		ERX =	0.8	ERH =	1.0	AVFM =	1.7	Q =	C				
LONG =	115.833	W		ERY =	0.6	GAP =	152	AVXM =		QS =	B				MERCURY
DEPTH =	5.92	KM		ERZ =	2.3	NM =				QD =	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 8.95					19 1.8	39.2	268	96	6.86	6.77	0.09	
08	JON	EP	16 51 9.40						42.1	215	96	7.31	7.23	0.08	
08	SDH	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	MESSY FILM
08	GMR	IPU	16 51 13.03						65.0	5	94	10.94	10.94	-0.00	
08	TPU	EPD	16 51 18.10						96.2	10	93	16.01	16.02	-0.01	
08	QCS	EPD4	16 51 21.85						113.2	356	92	19.76	18.77	0.99	



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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
08	NPN	EP4	16 51 24.50						127.9	38	53	22.41	20.95	1.46	
08	SRG	EP4	16 51 26.60						142.8	28	53	24.51	22.88	1.63	
.....															
JAN H = 4 34 22.03 UTC RMS = 0.15 NO = 5 FREE DEPTH SOLUTION															
09	LAT	=	37.196 N	ERX	=	1.2	ERH	=	1.6	AVFM	=	1.6	Q	=	C
	LONG	=	116.351 W	ERY	=	1.1	GAP	=	140	AVXM	=		QS	=	B
	DEPTH	=	0.04 KM	ERZ	=	1.9	NM	=					QD	=	D
SILENT CANYON - PAHUTE MESA															
09	EPN	IPU	4 34 22.65						3.1	51	91	0.62	0.82	-0.20	
09	BGB	EP4	4 34 26.25				19	1.8	20.7	148	38	4.22	4.06	0.21	NO S-WAVES
09	GLR	EP 4	4 34 27.20						29.6	89	38	5.17	5.50	-0.18	NO S-WAVES
09	BLT	EP	4 34 28.52						35.1	33	38	6.49	6.40	0.09	NO S-WAVES
09	CPX	EP	4 34 29.00						39.5	139	38	6.97	7.11	-0.14	NO S-WAVES
09	NMN	EP4	4 34 29.85				12	1.4	43.5	253	38	7.82	7.76	0.06	NO S-WAVES
09	LSM	EP 4	4 34 32.19				12	1.5	51.2	172	38	10.16	9.03	1.13	NO S-WAVES
.....															
JAN H = 19 6 20.07 UTC RMS = 0.04 NO = 8 FREE DEPTH SOLUTION															
09	LAT	=	37.154 N	ERX	=	0.2	ERH	=	0.3	AVFM	=	1.6	Q	=	B
	LONG	=	117.393 W	ERY	=	0.2	GAP	=	122	AVXM	=		QS	=	A
	DEPTH	=	8.33 KM	ERZ	=	1.4	NM	=					QD	=	C
MT. JACKSON															
09	GVN	EPD	19 6 23.48					21	1.8	17.5	165	112	3.41	3.41	0.00
		ISU4	19 6 25.70										5.63	5.96	-0.33
09	LCH	EP4	19 6 24.19				15	1.6	24.3	292	106	4.12	4.46	-0.34	
		ISU4	19 6 27.05										6.98	7.81	-0.83
09	MGM	EP4	19 6 25.93				10	1.2	33.2	344	102	5.86	5.86	-0.00	
		ISD4	19 6 30.14										10.07	10.26	-0.19
09	SGV	IPU	19 6 26.62				18	1.8	37.3	121	100	6.55	6.52	0.03	
		ISD4	19 6 31.68										11.61	11.41	0.20
09	TMO	EP4	19 6 26.80				30	2.2	38.7	182	100	6.73	6.74	-0.01	
09	NMN	EP4	19 6 28.80				18	1.8	51.7	99	97	8.73	8.83	-0.10	
		ESD4	19 6 35.70										15.63	15.45	0.18
09	PPK	EP	19 6 29.40				8	1.1	54.7	304	97	9.33	9.32	0.01	
09	MCA	EP 4	19 6 30.00				14	1.6	57.0	170	97	9.93	9.68	0.25	GOOD S-WAVE
		ISU4	19 6 36.75										16.68	16.94	-0.26
09	BRO	EP4	19 6 33.60				11	1.5	80.9	122	95	13.53	13.55	-0.03	
09	BGB	EP	19 6 37.50						104.4	97	94	17.43	17.36	0.12	
.....															
JAN H = 11 36 26.44 UTC RMS = 0.25 NO = 7 FREE DEPTH SOLUTION															
11	LAT	=	36.856 N	ERX	=	2.5	ERH	=	3.2	AVFM	=	1.4	Q	=	C
	LONG	=	116.149 W	ERY	=	2.0	GAP	=	175	AVXM	=		QS	=	C
	DEPTH	=	11.98 KM	ERZ	=	2.6	NM	=					QD	=	C
LATHROP WELLS															
11	LDP	IPD	11 36 28.75					11	1.2	1.7	264	172	2.31	2.14	0.17
		ES	11 36 30.47										4.03	3.74	0.28
11	SSP	IPD	11 36 29.15						9.9	321	138	2.71	2.72	-0.02	
11	CPX	IPD	11 36 29.58						11.4	45	134	3.14	2.90	0.24	
		ESU	11 36 31.00										4.56	5.08	-0.52
11	LSM	IPD4	11 36 25.19				15	1.5	17.0	220	123	*****	3.61	-4.86	
		ES	11 36 32.55										6.11	6.31	-0.21
11	BGB	EP4	11 36 30.80						21.4	341	117	4.36	4.23	0.18	
.....															
JAN H = 21 46 32.24 UTC RMS = 0.11 NO = 5 FREE DEPTH SOLUTION															
11	LAT	=	37.573 N	ERX	=	12.9	ERH	=	13.0	AVFM	=	2.5	Q	=	D
	LONG	=	114.306 W	ERY	=	1.8	GAP	=	317	AVXM	=		QS	=	D
	DEPTH	=	2.75 KM	ERZ	=	32.7	NM	=					QD	=	D
11	DLM	EP4	21 46 38.72						38.4	275	92	6.48	6.61	-0.13	
11	NPN	IPU	21 46 41.80						56.5	279	90	9.56	9.53	0.02	
11	PRN	EP4	21 46 43.73				33	2.4	68.3	254	90	11.49	11.46	0.02	
11	SRG	EP4	21 46 44.88						75.5	297	90	12.64	12.63	0.01	
11	MTI	EP	21 46 46.65						86.2	278	90	14.41	14.37	0.24	
11	EPR	EP4	21 46 46.75				41	2.7	90.0	240	90	14.51	14.98	-0.47	
11	TPU	EP4	21 46 52.30						118.7	272	90	20.06	19.66	0.40	
11	QCS	EP4	21 46 56.15						143.7	279	53	23.91	23.31	0.59	
11	SPRG	EP4	21 46 58.28						165.5	234	53	26.04	26.14	-0.10	
.....															
JAN H = 23 21 44.79 UTC RMS = 0.10 NO = 5 FIXED DEPTH SOLUTION															
11	LAT	=	36.818 N	ERX	=	1.9	ERH	=	2.3	AVFM	=	1.1	Q	=	D
	LONG	=	116.276 W	ERY	=	-1.4	GAP	=	192	AVXM	=		QS	=	C
	DEPTH	=	5.00 KM	ERZ	=	5.6	NM	=					QD	=	D
DEPTH CONTROL INADEQUATE LATHROP WELLS															
11	LSM	IPD	23 21 46.65				11	1.2	8.8	178	113	1.86	1.89	-0.03	

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JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SFC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
.	11	LOP	ES 23 21 48.15									3.36	3.31	0.05	.
.			23 21 46.71				8	1.0	10.5	67	110	1.92	2.15	-0.23	.
.			ES 23 21 46.65									3.86	3.76	0.10	.
.	11	BGB	EPD 23 21 49.20						24.8	10	98	4.41	4.42	0.04	.
.....															
JAN H = 11	40	59.69	UTC	RMS =	0.05	NO =	9								FREE DEPTH SOLUTION
12	LAT =	36.817	N	ERX =	0.2	ERH =	0.3	AVFM =	1.5	Q =	B				
	LONG =	116.268	W	ERY =	0.2	GAP =	109	AVXM =		QS =	A				LATHROP WELLS
	DEPTH =	1.04	KM	ERZ =	0.4	NM =				QD =	B				
.	12	LSM	IPD4 11 41 1.42				27	2.0	8.7	182	38	1.73	1.90	-0.17	.
.	12	LOP	IPD 11 41 1.73				22	1.8	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	SDH	IPD4 11 41 3.20						20.1	198	38	3.51	3.76	-0.24	.
.	12	CPX	EPD4 11 41 3.44				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	BRO	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	ERH =	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	LOP	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	SDH	IPD 19 13 29.85				12	1.4	19.8	197	100	3.45	3.62	-0.17	.
.	12	CPX	EPD 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	BRO	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	EPD4 19 13 45.10						103.6	32	92	18.70	17.22	1.48	.
.	12	QCS	EPD4 19 13 46.14						110.3	17	92	19.74	18.30	1.44	.
.....															
JAN H = 4	40	59.81	UTC	RMS =	0.04	NO =	8								FREE DEPTH SOLUTION
13	LAT =	36.813	N	ERX =	0.2	ERH =	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	182	38	1.81	1.81	-0.00	.
.	13	LOP	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	SDH	EPD4 4 41 3.30				6	0.8	19.7	199	38	3.49	3.66	-0.18	.
.	13	CPX	EPD4 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	EPD 4 41 5.20						30.3	125	38	5.39	5.39	-0.00	.
.	13	BRO	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	44.07	UTC	RMS =	0.01	NO =	6								FREE DEPTH SOLUTION
13	LAT =	36.820	N	ERX =	0.0	ERH =	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	EPD4 4 44 45.60						9.1	185	38	1.53	1.84	-0.31	.
.	13	LOP	EPD 4 44 45.93						9.3	66	38	1.86	1.87	-0.01	.
.	13	SSP	EPD 4 44 46.42						12.3	19	38	2.35	2.36	-0.01	.
.	13	SDH	EPD4 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	EPD 4 44 49.38						30.4	127	38	5.31	5.30	0.01	.
.	13	BRO	EPD 4 44 49.80						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 =	9								FREE DEPTH SOLUTION
13	LAT =	36.815	N	ERX =	0.7	ERH =	0.9	AVFM =	1.4	Q =	C				

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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
LUNG = 116.261 W ERY = 0.6 GAP = 107 AVXM = QS = C LATHROP WELLS DEPTH = 1.87 KM ERZ = 46.7 NM = QD = B															
13	LSM	IPU	7 14 25.26					15 1.5	8.4	186	91	1.72	1.73	-0.00	
13	LOP	IPD	7 14 25.49					20 1.8	9.5	62	91	1.95	1.89	0.06	
13	SSP	EPD	7 14 25.95					21 1.8	12.8	17	90	2.41	2.44	-0.03	
		ISU	7 14 27.70									4.16	4.27	-0.11	
13	SDH	EPD	7 14 26.89					9 1.1	20.0	200	90	3.35	3.60	-0.25	
13	CPX	EPD	7 14 27.25					10 1.2	22.1	55	90	3.71	3.94	-0.23	
13	BGB	EPD	7 14 27.95					11 1.3	25.0	7	90	4.41	4.41	0.05	
13	MCX	IPU	7 14 28.96						29.9	126	90	5.42	5.21	0.21	
13	BRO	EP	7 14 29.39					7 0.9	33.0	260	90	5.85	5.72	0.14	
13	TPU	EPD4	7 14 42.20						103.2	32	90	18.66	17.13	1.53	
13	QCS	EPD	7 14 43.00						110.1	16	90	19.46	18.26	1.21	
JAN H = 7 48 51.59 UTC RMS = 0.42 NO = 6 FIXED DEPTH SOLUTION 13 LAT = 37.003 N ERX = 1.5 ERH = 4.0 AVFM = 1.1 Q = D DEPTH CONTROL INADEQUATE LONG = 117.307 W ERY = 3.7 GAP = 189 AVXM = QS = C MT. JACKSON DEPTH = 5.00 KM ERZ = 3.2 NM = QD = D															
13	GVN	IPU	7 48 52.42					13 1.4	3.1	267	143	0.83	1.15	-0.33	
		ES	7 48 54.10									2.51	2.02	0.49	
13	SGV	EPD	7 48 55.30					7 0.9	24.6	96	98	3.71	4.39	-0.68	
		ES	7 48 59.68									8.09	7.68	0.41	
13	MCA	EPD4	7 49 5.65						39.5	177	95	14.06	6.79	7.26	
13	BRO	EP	7 49 2.60						66.4	114	93	11.01	11.16	-0.15	
		ES	7 49 11.35									19.76	19.53	0.23	
JAN H = 2 4 33.01 UTC RMS = 0.08 NO = 10 FREE DEPTH SOLUTION 14 LAT = 37.228 N ERX = 0.2 ERH = 0.3 AVFM = 1.9 Q = B LONG = 115.456 W ERY = 0.2 GAP = 102 AVXM = QS = A ALAMO DEPTH = 17.56 KM ERZ = 1.7 NM = QD = B															
14	EPR	IPU	2 4 38.19					36 2.3	24.9	105	124	5.18	5.18	-0.00	
14	GMR	IPU	2 4 38.89					13 1.5	30.3	293	119	5.88	5.93	-0.05	
14	PRN	IPD	2 4 40.86					14 1.6	41.1	61	112	7.85	7.53	0.31	
14	TPU	IPU	2 4 41.00					21 1.9	45.1	338	110	7.99	8.14	-0.16	
		ISD	2 4 47.33									14.32	14.25	0.07	
14	GLR	EPD4	2 4 42.52						49.9	266	108	9.51	8.88	0.78	
		ISD	2 4 48.40									15.39	15.28	0.11	
14	MTI	EPD4	2 4 41.96					21 2.0	52.3	18	107	8.95	9.25	-0.10	
		ESD	2 4 48.80									15.79	15.84	-0.05	
14	NPN	EPD	2 4 44.30					19 1.9	65.8	44	104	11.29	11.37	-0.08	
14	SPRG	EPD4	2 4 47.02						67.1	206	104	14.01	11.57	2.43	
		ISU	2 4 53.25									20.24	20.25	-0.02	
14	SRG	EPD	2 4 47.00						80.3	25	53	13.99	13.62	0.36	
JAN H = 8 49 53.36 UTC RMS = 0.21 NO = 19 FREE DEPTH SOLUTION 15 LAT = 37.280 N ERX = 0.5 ERH = 0.6 AVFM = 2.1 Q = C LONG = 117.070 W ERY = 0.4 GAP = 89 AVXM = QS = B MT. JACKSON DEPTH = 1.29 KM ERZ = 1.3 NM = QD = C															
15	SCV	IPU	8 49 59.19					35 2.3	33.4	174	38	5.83	5.87	-0.04	
15	GVN	EPD	8 50 0.20					30 2.2	39.3	218	38	6.84	6.83	0.01	
15	CTS	IPD	8 50 1.92					14 1.6	50.2	37	38	8.56	8.60	-0.04	
15	MZP	IPU	8 50 2.38					23 2.0	54.2	329	38	9.02	9.25	-0.04	
15	EPN	EP	8 50 4.89					36 2.5	66.7	96	38	11.53	11.28	0.25	
		ISU	8 50 13.25									19.89	19.74	0.15	
15	BRO	EPD	8 50 4.85					19 1.9	69.8	145	38	11.49	11.78	-0.30	
15	MCA	EP	8 50 6.00					24 2.1	72.6	195	38	12.64	12.25	0.39	
		ISD	8 50 14.48									21.12	21.43	-0.31	
15	FNT	IPU	8 50 5.81					16 1.8	75.7	160	38	12.45	12.75	-0.20	
15	PPK	IPD4	8 50 4.68					22 2.1	75.9	282	38	11.32	12.77	-1.45	
15	SVP	EPD	8 50 7.16					24 2.2	80.6	307	38	13.80	13.55	0.10	
15	SSP	EP	8 50 7.62					28 2.3	85.4	118	38	14.26	14.32	-0.06	
15	LSM	IPD	8 50 8.91					30 2.4	93.1	130	38	15.55	15.57	-0.02	
15	LOP	EPD	8 50 8.89					27 2.3	93.2	121	38	15.53	15.58	-0.06	
15	SDH	EPD	8 50 9.19					20 2.1	96.0	137	38	15.83	16.04	-0.22	
15	CPX	EP	8 50 10.40					18 2.0	98.1	113	38	17.04	16.38	0.66	
15	GMR	FP	8 50 13.29					13 1.8	115.3	87	38	19.93	19.19	0.74	
15	QCS	EPD	8 50 12.35					19 2.1	115.5	62	38	18.99	19.22	-0.23	
15	MTI	EPD	8 50 20.40					25 2.5	164.9	75	30	27.04	26.27	0.97	
15	SRG	EPD4	8 50 24.25						189.0	69	30	30.89	29.39	1.49	
JAN H = 12 21 21.49 UTC RMS = 0.02 NO = 5 FREE DEPTH SOLUTION															

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JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	Fmag	DIST (KM)	AZI (DEG)	AIN (DLG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
15 LAT = 37.066 N ERX = 0.6 ERH = 1.0 AVFM = 1.4 Q = D LONG = 116.050 W ERY = 0.8 GAP = 141 AVXM = QS = C SILENT CANYON - YUCCA FLAT DEPTH = 5.31 KM ERZ = 8.5 NM = QD = D															
15	GLR	IPU	12 21 24.23						15.1	11	105	2.74	2.88	0.00	
15	CPX	IPD4	12 21 23.92					10 1.2	15.2	183	105	2.43	2.90	-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	LDP	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	SDH	EPD4	12 21 36.67						53.2	209	94	15.18	9.03	6.15	
JAN H = 14 21 11.09 UTC RMS = 0.07 NO = 8 FREE DEPTH SOLUTION 15 LAT = 37.533 N ERX = 0.2 ERH = 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	QCS	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	GMR	IPU	14 21 20.95					8 1.1	57.8	112	100	9.86	9.88	-0.02	
15	LDP	EPD	14 21 24.15						77.5	166	97	13.06	13.06	0.00	
15	SGV	EPD	14 21 25.30						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 H = 20 28 21.96 UTC RMS = 0.04 NO = 8 FREE DEPTH SOLUTION 15 LAT = 36.179 N ERX = 0.9 ERH = 1.0 AVFM = 3.8 Q = C LONG = 117.567 W ERY = 0.5 GAP = 242 AVXM = QS = B DARWIN DEPTH = 1.16 KM ERZ = 4.5 NM = QD = D															
15	MCA	IPD4	20 28 31.00						128 3.5	58.1	26 38	9.04	9.90	-0.86	
15	QSM	IPU	20 28 33.35						117 3.5	67.2	111 38	11.39	11.39	-0.01	
15	TPO	IPD4	20 28 32.95						165 3.8	71.0	12 38	10.99	12.00	-1.01	
15	GVN	IPD4	20 28 37.15						169 3.9	93.5	12 38	15.19	15.66	-0.47	
15	SGV	IPD4	20 28 38.55						180 4.0	101.1	28 38	16.59	16.90	-0.31	
15	AMR	IPU	20 28 38.79						130 3.7	101.1	76 38	16.83	16.90	-0.08	
15	BRO	IPU4	20 28 39.50						124 3.7	106.4	52 38	17.54	17.76	-0.22	
15	LCH	IPD4	20 28 40.24							117.4	356 38	18.28	19.55	-1.27	
15	NMN	IPD	20 28 42.00						176 4.0	120.5	34 38	20.04	20.05	-0.01	
15	SDH	IPU	20 28 42.29						120 3.7	121.8	65 38	20.33	20.27	0.06	
15	NGP	IPU	20 28 43.11						99 3.6	127.3	93 38	21.15	21.17	-0.02	
15	LSM	IPD4	20 28 44.13						99 3.6	131.6	62 38	22.17	21.87	0.30	
15	JON	IPU	20 28 44.40						110 3.7	134.6	78 38	22.44	22.36	0.08	
15	MGM	EPU4	20 28 44.30							140.2	3 30	22.34	23.09	-0.75	
15	PPK	EPD4	20 28 42.40							141.7	348 30	20.44	23.28	-2.84	
15	LDP	IPU4	20 28 46.25						158 4.0	146.1	59 30	24.29	23.85	0.44	
15	SSP	IPD4	20 28 46.29							146.3	56 30	24.33	23.88	0.45	
15	MCX	IPD4	20 28 47.05						54 3.1	151.0	69 30	25.09	24.48	0.60	
15	BGB	IPU4	20 28 46.10							153.1	52 30	24.14	24.76	-0.58	
15	CPX	IPU4	20 28 47.76						138 4.0	158.6	58 30	25.80	25.47	0.33	
15	EPN	IPD4	20 28 48.50							159.8	44 30	26.54	25.63	0.90	
15	SPRG	IPU4	20 28 48.89						125 3.9	167.7	70 30	26.93	26.66	0.27	
15	MZP	EPD4	20 28 49.20							169.7	6 30	27.24	26.91	0.52	
15	SVP	EPD	20 28 49.30							171.7	353 30	27.34	27.18	0.01	
15	CTS	EPD4	20 28 50.60						75 3.5	178.6	25 30	28.64	28.08	0.56	
15	GLR	IPD4	20 28 50.69						97 3.7	178.9	51 30	28.73	28.11	0.77	
15	APK	IPU	20 28 50.22						101 3.8	179.9	85 30	28.26	28.24	0.02	
15	BLT	EPU4	20 28 52.50						114 3.9	191.3	42 30	30.54	29.72	0.82	
15	KRN	IPU4	20 28 53.67						153 4.2	202.0	33 30	31.71	31.11	0.60	
15	GMR	IPU4	20 28 54.22						148 4.2	205.2	51 30	32.26	31.53	0.73	
15	TNP	IPD4	20 28 55.07						157 4.3	213.5	8 30	33.11	32.60	0.51	
15	SHRG	IPU4	20 28 56.31							219.6	81 30	34.35	33.40	1.00	
15	QCS	EPU	20 28 56.80							229.5	40 30	34.84	34.69	0.15	
15	TPU	EPU	20 28 57.10							233.0	47 30	35.14	35.13	0.01	
15	EPR	IPU4	20 28 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	34.25	39.00	0.25	
JAN H = 17 58 42.77 UTC RMS = 0.13 NO = 12 FREE DEPTH SOLUTION 16 LAT = 37.292 N ERX = 0.4 ERH = 0.6 AVFM = 1.7 Q = C LONG = 117.055 W ERY = 0.5 GAP = 144 AVXM = QS = C MT. JACKSON DEPTH = 4.74 KM ERZ = 8.3 NM = QD = C															

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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 (SLC)	RES (SEC)	REMARKS	
. 16	NMN	IPU	17 58 48.05					27	2.1	31.5	138	96	5.28	5.49	-0.21	
.		ISU	17 58 52.49									9.72	9.61	0.11		
. 16	SGV	EPU	17 58 48.49					25	2.0	34.5	177	95	5.72	5.99	-0.27	
.		ISU4	17 58 52.70									9.93	10.47	-0.55		
. 16	GVN	EPD4	17 58 49.50					22	2.0	41.1	218	94	6.73	7.05	-0.33	
.		ISU	17 58 55.20									12.43	12.34	0.08		
. 16	MGM	IPU	17 58 49.99					13	1.5	42.5	293	94	7.22	7.28	-0.06	
.		ISU	17 58 55.27									12.50	12.73	-0.23		
. 16	LCH	EPU	17 58 51.59					18	1.8	52.9	263	93	8.82	8.97	-0.15	
.		ISU	17 58 58.60									15.83	15.69	0.14		
. 16	MZP	EPU	17 58 51.79					10	1.3	53.9	327	93	9.02	9.13	0.08	
.		ESU4	17 58 58.40									15.63	15.64	-0.01		
. 16	TMO	EP 4	17 58 53.00					20	2.0	62.4	210	93	10.23	10.52	-0.29	
. 16	BRO	EPU4	17 58 54.10					9	1.3	70.1	147	93	11.33	11.76	-0.43	
. 16	MCA	EP	17 58 55.30					13	1.6	74.2	196	92	12.53	12.43	0.10	VERY E
. 16	FMT	EPU4	17 58 55.05					9	1.3	76.4	161	92	12.28	12.79	-0.41	
. 16	PPK	EPD4	17 58 55.95					15	1.8	76.9	281	92	13.18	12.87	0.31	
.		ESD4	17 59 5.62									22.85	22.53	0.32		
. 16	BGB	EPD	17 58 55.95					16	1.8	78.7	111	92	13.18	13.16	0.07	
. 16	SSP	EPD	17 58 56.89					26	2.3	84.8	119	92	14.12	14.15	-0.03	
. 16	SDH	EPU4	17 58 58.35							96.0	138	92	15.58	15.97	-0.40	
.....																
JAN H = 19 4 53.68 UTC RMS = 0.00 NO = 3																
20 LAT = 36.876 N ERH = AVFM = 1.2 Q = C FIXED DEPTH SOLUTION																
LONG = 116.196 W ERY = GAP = 147 AVXM = QS = A DEPTH CONTROL INADEQUATE																
DEPTH = 5.00 KM ERZ = NM = QD = D LATHROP WELLS																
.....																
. 20	LOP	EP	19 4 54.87					14	1.4	3.5	133	140	1.19	1.19	-0.00	
. 20	LSM	EPU	19 4 56.79					7	0.9	16.6	204	102	3.11	3.11	0.00	
. 20	BGB	EP	19 4 57.00							18.2	351	101	3.32	3.37	0.00	
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JAN H = 20 46 45.06 UTC RMS = 0.30 NO = 4																
21 LAT = 37.140 N ERX = ERH = AVFM = 1.6 Q = D FREE DEPTH SOLUTION																
LONG = 114.972 W ERY = GAP = 276 AVXM = QS = C DELAMAR MOUNTAINS																
DEPTH = 0.23 KM ERZ = NM = QD = D																
.....																
. 21	EPR	IPU	20 46 48.86					23	1.9	19.3	280	38	3.80	3.79	0.01	
. 21	PRN	EPU	20 46 50.24					10	1.2	30.5	347	38	5.18	5.61	-0.43	
. 21	NPN	EPD	20 46 55.10							57.0	3	38	10.04	9.93	0.11	
. 21	WRN	EPD	20 47 4.30							108.1	330	38	19.24	18.24	1.00	
.....																
JAN H = 23 50 24.65 UTC RMS = 0.28 NO = 25																
23 LAT = 37.199 N ERX = 0.6 ERH = 0.8 AVFM = 2.4 Q = C FREE DEPTH SOLUTION																
LONG = 115.477 W ERY = 0.6 GAP = 62 AVXM = QS = B ALAMO																
DEPTH = 2.40 KM ERZ = 3.2 NM = QD = C																
.....																
. 23	EPR	IPU	23 50 29.01					74	3.0	26.0	97	92	4.36	4.58	-0.22	
. 23	GMR	IPU4	23 50 29.30					37	2.4	30.1	300	91	4.65	5.25	-0.60	
. 23	PRN	IPD	23 50 32.39					36	2.4	44.4	59	90	7.74	7.56	0.18	
. 23	TPU	EPD	23 50 32.23					51	2.7	47.6	341	90	7.58	8.09	-0.51	
. 23	GLR	IPU	23 50 32.95							48.0	270	90	8.30	8.16	0.30	
. 23	MTI	EPU	23 50 33.70					33	2.4	56.0	19	90	9.05	9.46	-0.21	
. 23	CPX	IPU	23 50 34.69					33	2.4	59.7	240	90	10.04	10.07	-0.02	
. 23	SPRG	IPD	23 50 34.85					30	2.3	63.4	208	90	10.20	10.66	-0.45	
. 23	BLT	EPD	23 50 35.45					29	2.3	65.2	297	90	10.80	10.95	-0.15	
. 23	BGB	EP	23 50 36.15					39	2.6	69.1	255	90	11.50	11.59	-0.03	
. 23	NPN	EPU	23 50 36.25							69.4	44	90	11.60	11.64	-0.04	
. 23	LOP	IPU	23 50 36.96					44	2.7	72.4	236	90	12.31	12.12	0.19	
. 23	SSP	EPD	23 50 36.80					41	2.6	72.6	245	90	12.15	12.16	0.00	
. 23	EPN	IPU	23 50 37.70							75.2	271	90	13.05	12.58	.48	
. 23	DLM	EPU	23 50 38.10					28	2.3	79.4	55	90	13.45	13.27	0.18	
. 23	SHRG	EPU	23 50 38.70							82.2	160	90	14.05	13.72	0.39	
. 23	SRG	EPU	23 50 38.90							84.0	25	90	14.25	14.02	0.24	
. 23	WRN	EPD	23 50 39.34					38	2.6	87.5	354	90	14.69	14.57	0.12	
. 23	SDH	EPU	23 50 40.85					26	2.3	98.3	231	90	16.20	16.34	-0.13	
. 23	JON	EPU	23 50 41.40					30	2.4	101.1	214	90	16.75	16.79	-0.03	
. 23	BRO	EP	23 50 44.05					26	2.4	113.1	245	90	19.40	18.74	0.66	VERY E
.....																
. 23	NMN	EP	23 50 44.80					41	2.8	120.0	264	90	20.15	19.86	0.30	
.		ISU4	23 50 58.95									34.30	34.75	-0.44		
. 23	CTS	EPD	23 50 45.20					4	0.8	120.9	294	90	20.55	20.02	0.54	
. 23	AMR	EPU	23 50 45.94					25	2.4	125.8	225	90	21.29	20.81	0.49	
. 23	NOP	EPU	23 50 46.49							133.3	207	53	21.84	22.00	-0.15	
. 23	SGV	EPU	23 50 48.55					41	2.8	140.4	260	53	23.90	22.91	0.99	
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JAN 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	T0BS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
JAN H = 0 34 1.37 UTC RMS = 0.06 NO = 8 FREE DEPTH SOLUTION															
24	LAT =	37.162 N	ERX =	0.4	ERH =	0.6		AVFM =	1.8	Q = C					
24	LONG =	115.456 W	ERY =	0.4	GAP =	123		AVXM =		QS = B		ALAMO			
24	DEPTH =	9.35 KM	ERZ =	3.1	NM =					QD = C					
24	EPR	IPU	0 34 5.80				31	2.2	24.0	88	109	4.43	4.45	-0.02	
24	GMR	EPD4	0 34 6.26				13	1.5	33.8	304	103	4.89	6.00	-1.11	
24	PRN	IPU	0 34 9.30				13	1.5	45.1	53	100	7.93	7.80	0.13	
24	GLR	EPD	0 34 9.80						50.0	275	99	8.43	8.58	0.00	
24	TPU	EPD4	0 34 9.50				16	1.7	52.0	341	99	8.13	8.91	-0.77	
24	MTI	IPU4	0 34 10.70				16	1.7	59.4	16	98	9.33	10.09	-0.56	
24	CPX	IPU	0 34 11.50						59.5	244	97	10.13	10.11	0.02	
24	SPRG	EPD	0 34 11.65						60.7	211	97	10.28	10.31	-0.02	
24	BLT	EPU4	0 34 12.60						68.7	299	96	11.23	11.60	-0.37	
24	NPN	EPU	0 34 13.38				16	1.8	71.3	40	96	12.01	12.01	0.01	
24	LOP	EPD4	0 34 13.70						71.9	242	96	12.33	12.12	0.21	
24	EPN	EP	0 34 14.42				11	1.5	77.2	274	96	13.05	12.97	0.08	VERY E
24	SRG	EPU	0 34 15.80				26	2.3	87.0	23	95	14.43	14.55	-0.12	
24	WRN	EPD4	0 34 16.36				15	1.8	91.7	353	95	14.99	15.32	-0.33	
24	SDH	EP 4	0 34 17.80						97.3	234	95	16.43	16.22	0.21	VERY E
24	JON	EP 4	0 34 18.20						98.8	216	94	16.83	16.46	0.37	VERY E
24	NMN	EPU4	0 34 22.30						121.4	266	53	20.93	19.77	1.16	
JAN H = 8 59 41.12 UTC RMS = 0.04 NO = 5 FREE DEPTH SOLUTION															
24	LAT =	37.132 N	ERX =	0.5	ERH =	1.2		AVFM =	1.7	Q = C					
24	LONG =	115.505 W	ERY =	1.1	GAP =	232		AVXM =		QS = B		GROOM LAKE			
24	DEPTH =	15.72 KM	ERZ =	0.8	NM =					QD = D					
24	EPR	IPU	8 59 46.70				24	2.0	28.6	82	117	5.58	5.55	0.03	
24	GMR	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	54.1	346	105	9.49	9.44	0.05	
24	MTI	EPD4	8 59 51.55				15	1.7	63.9	19	103	10.43	10.99	-0.36	
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 H = 11 40 11.18 UTC RMS = 0.01 NO = 5 FREE DEPTH SOLUTION															
25	LAT =	36.603 N	ERX =	0.4	ERH =	0.5		AVFM =	0.9	Q = C					
25	LONG =	116.316 W	ERY =	0.2	GAP =	204		AVXM =		QS = A		LATHROP WELLS			
25	DEPTH =	10.94 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	
25	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	JON	IPU	11 40 16.08				5	0.6	26.3	133	110	4.90	4.90	-0.00	
25	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 H = 3 7 10.79 UTC RMS = 0.09 NO = 10 FREE DEPTH SOLUTION															
26	LAT =	36.717 N	ERX =	0.3	ERH =	0.5		AVFM =	1.6	Q = A					
26	LONG =	116.239 W	ERY =	0.3	GAP =	65		AVXM =		QS = A		LATHROP WELLS			
26	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	LOP	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	
26	ISD4		3 7 17.98									7.19	7.28	-0.09	
26	CPX	IPD	3 7 15.69				14	1.5	28.5	34	97	4.90	5.02	-0.12	
26	JON	EPU	3 7 16.61				11	1.3	33.1	158	96	5.82	5.76	0.07	
26	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	
26	ISU4		3 7 22.05									11.26	10.61	0.66	
26	8GB	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	AMR	EP	3 7 17.94				10	1.3	41.2	211	95	7.15	7.08	0.07	
26	NMN	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	MTI	EPD4	3 7 34.67						136.7	39	53	23.88	22.18	1.91	
JAN H = 3 27 52.12 UTC RMS = 0.06 NO = 5 FREE DEPTH SOLUTION															
26	LAT =	36.494 N	ERX =	0.9	ERH =	1.5		AVFM =	1.5	Q = C					
26	LONG =	116.389 W	ERY =	1.2	GAP =	112		AVXM =		QS = B		ASH MEADOWS			
26	DEPTH =	23.66 KM	ERZ =	1.1	NM =					QD = D					

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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
. 26	AMR	EPD	3 27 56.69					29 2.1	13.2	215	150	4.57	4.59	-0.02	
. 26	SDH	IPU4	3 27 55.61					15 1.5	17.4	15	143	3.49	4.97	-1.48	
. 26	JON	EPU	3 27 58.10					11 1.3	26.4	103	131	5.98	5.97	0.00	
. 26	LSM	EP 4	3 27 57.60						29.1	21	128	5.48	6.32	-0.84	VERY E
. 26	BRD	EPU	3 27 59.45					6 0.8	36.5	325	122	7.33	7.31	0.02	
. 26	LOP	EPD	3 27 60.41					15 1.6	44.6	26	53	8.29	8.39	-0.11	
. 26	CPX	EPU	3 27 62.20						56.6	32	53	10.08	9.95	0.13	
. 26	BGB	EPU4	3 27 63.40						62.0	13	53	11.28	10.66	0.67	
. 26	NMN	EP 4	3 27 66.00						75.5	330	53	13.88	12.41	1.47	
. 26	SGV	EPD4	3 27 67.05						78.9	313	53	14.93	12.85	2.08	
. 26	TPU	EPU4	3 27 76.82						139.7	28	53	24.70	20.75	3.94	
. 26	QCS	EPD4	3 27 78.50						147.4	17	53	26.38	21.75	4.62	

JAN H = 17 22 21.39 UTC RMS = 0.07 NO = 5 FREE DEPTH SOLUTION  
 . 28 LAT = 37.217 N ERX = 1.8 ERH = 2.5 AVFM = 1.6 Q = C  
 . LONG = 117.854 W ERY = 1.7 GAP = 209 AVXM = QS = B MAGRUDER MOUNTAIN  
 . DEPTH = 13.63 KM ERZ = 3.6 NM = QD = D

. 28	LCH	EPU	17 22 25.30					19 1.8	18.4	84	124	3.91	3.95	-0.04	
. 28	ISU4		17 22 29.00									7.61	6.92	0.69	
. 28	PPK	EPD	17 22 25.99					11 1.3	23.8	348	118	4.60	4.70	-0.10	
. 28	ISU		17 22 29.69									8.30	8.22	0.08	
. 28	MGM	EP 4	17 22 27.49					12 1.4	40.3	52	107	6.10	7.19	-1.09	VERY E
. 28	GVN	EPD4	17 22 30.75					17 1.8	51.3	118	103	9.36	8.93	0.43	
. 28	TWO	EP	17 22 31.80					16 1.7	60.5	139	101	10.41	10.38	0.03	VERY E
. 28	NMN	EP	17 22 37.10					13 1.7	93.3	99	97	15.71	15.64	0.07	VERY E

JAN H = 18 4 1.63 UTC RMS = 0.10 NO = 8 FREE DEPTH SOLUTION  
 . 28 LAT = 36.734 N ERX = 0.6 ERH = 0.7 AVFM = 1.9 Q = B  
 . LONG = 116.273 W ERY = 0.5 GAP = 116 AVXM = QS = A LATHROP WELLS  
 . DEPTH = 2.09 KM ERZ = 0.9 NM = QD = B

. 28	LSM	IPU	18 4 2.10						0.5	16	159	0.47	0.53	-0.06	
. 28	LOP	EP	18 4 4.54					33 2.2	16.3	35	91	2.91	3.01	-0.10	
. 28	SSP	EPD	18 4 5.60					33 2.2	21.7	13	90	3.97	3.88	0.09	
. 28	ISU		18 4 8.36									6.73	6.79	-0.06	
. 28	MCX	EP 4	18 4 9.20						26.7	109	90	7.57	4.70	2.87	
. 28	BRD	EPD	18 4 7.00					12 1.4	31.6	276	90	5.37	5.49	-0.12	
. 28	BGB	EPU	18 4 7.60					21 1.9	33.9	7	90	5.97	5.87	0.15	
. 28	AMR	EP 4	18 4 8.05					16 1.7	41.5	206	90	6.42	7.09	-0.68	VERY E
. 28	SPRG	EPD	18 4 8.77					16 1.7	41.7	96	90	7.14	7.14	0.00	
. 28	QSM	EPD	18 4 18.52						100.7	212	90	16.89	16.72	0.17	
. 28	TPU	EPD4	18 4 21.55						111.4	30	90	19.92	18.46	1.46	
. 28	MTI	EPD	18 4 25.05						137.2	40	53	23.42	22.54	1.08	

JAN H = 0 33 5.53 UTC RMS = 0.09 NO = 6 FREE DEPTH SOLUTION  
 . 30 LAT = 37.155 N ERX = 0.8 ERH = 1.0 AVFM = 1.3 Q = B  
 . LONG = 117.426 W ERY = 0.6 GAP = 138 AVXM = QS = A MT. JACKSON  
 . DEPTH = 7.69 KM ERZ = 1.9 NM = QD = C

. 30	GVN	IPU	0 33 9.10					16 1.6	18.5	156	109	3.57	3.53	0.04	
. 30	LCH	IPD	0 33 9.60					9 1.1	21.6	294	106	4.07	4.00	0.07	
. 30	MGM	EPD	0 33 11.15					7 0.9	32.4	349	101	5.62	5.72	-0.10	
. 30	SGV	IPU	0 33 12.22					10 1.3	39.9	119	99	6.69	6.92	-0.23	
. 30	NMN	IPU4	0 33 14.40					12 1.5	54.6	99	96	8.87	9.29	-0.42	
. 30	EPN	EPU	0 33 22.00						98.1	86	94	16.47	16.33	0.14	
. 30	LOP	EPU	0 33 24.90						116.9	107	53	19.37	19.34	0.02	

JAN H = 9 2 29.46 UTC RMS = 0.01 NO = 5 FREE DEPTH SOLUTION  
 . 30 LAT = 36.793 N ERX = 0.1 ERH = 0.2 AVFM = 1.3 Q = C  
 . LONG = 115.865 W ERY = 0.2 GAP = 293 AVXM = QS = A MERCURY  
 . DEPTH = 7.72 KM ERZ = 0.7 NM = QD = D

. 30	MCX	EPD	9 2 33.05					8 1.0	18.9	217	109	3.59	3.60	-0.00	
. 30	LOP	EP	9 2 34.45					9 1.1	27.9	284	103	4.99	4.99	-0.00	
. 30	ISD4		9 2 37.31									7.85	8.74	-0.89	
. 30	SSP	EP 4	9 2 35.45						34.8	295	100	5.99	6.09	-0.10	
. 30	LSM	EPU	9 2 35.90					16 1.7	36.8	261	100	6.44	6.43	0.02	
. 30	ISU		9 2 40.70									11.24	11.25	-0.00	
. 30	SDH	EP	9 2 37.25						45.4	249	98	7.79	7.80	-0.01	VERY E

JAN H = 11 31 7.47 UTC RMS = 0.02 NO = 7 FREE DEPTH SOLUTION  
 . 30 LAT = 36.485 N ERX = 0.7 ERH = 0.7 AVFM = 2.4 Q = B

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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
LONG = 115.256 W    ERY = 0.3    GAP = 161    AVXM =    QS = A    LAS VEGAS DEPTH = 12.29 KM    ERZ = 1.6    NM =    QD = C															
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	6.14	0.01	
30	SPRG	EPU4	11 31 16.40				27	2.2	54.7	295	101	8.93	9.41	-0.49	
30	CPX	EPU4	11 31 21.90				22	2.1	87.0	305	97	14.43	14.61	-0.18	
30	NOP	EPU	11 31 22.50				16	1.9	89.7	244	97	15.03	15.05	-0.02	
		ISD4	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	SDH	IPD	11 31 23.98				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	EPN	IPD4	11 31 28.87						125.0	310	53	21.40	19.96	1.44	
30	GWV	EPU4	11 31 29.49				27	2.5	131.3	255	53	22.02	20.77	1.15	
30	NMN	EPU4	11 31 33.35				29	2.6	154.3	295	53	25.88	23.76	2.12	
30	SGV	IPU4	11 31 35.21				26	2.5	168.0	289	53	27.74	25.54	2.20	
JAN H = 14 26 32.66 UTC    RMS = 0.03    NO = 5    FREE DEPTH SOLUTION 30 LAT = 36.623 N    ERX = 1.0    ERH = 1.2    AVFM = 1.4    Q = C LONG = 116.281 W    ERY = 0.7    GAP = 217    AVXM =    QS = B    LATHROP WELLS DEPTH = 7.58 KM    ERZ = 2.2    NM =    QD = D															
30	SDH	IPU	14 26 34.40				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	103	4.89	4.95	-0.05	
30	AMR	EP 4	14 26 39.30						30.4	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	CPX	EP 4	14 26 37.43						39.3	30	99	4.77	6.82	-2.05	VERY E
30	SPRG	EP	14 26 40.05						42.9	79	98	7.39	7.40	-0.00	VERY E
JAN H = 14 20 48.27 UTC    RMS = 0.10    NO = 17    FREE DEPTH SOLUTION 31 LAT = 37.279 N    ERX = 0.3    ERH = 0.3    AVFM = 2.4    Q = C LONG = 117.644 W    ERY = 0.2    GAP = 122    AVXM =    QS = C    MAGRUDER MOUNTAIN DEPTH = 0.96 KM    ERZ = 5.8    NM =    QD = B															
31	LCH	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	28.5	305	38	5.09	5.13	-0.04	
31	GMN	IPU4	14 20 55.26				42	2.5	34.2	86	38	6.99	6.06	0.93	
31	SVP	IP	14 20 57.16				25	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	NMN	IPD	14 21 1.15				35	2.5	76.5	107	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	EPD4	14 21 5.35				26	2.3	104.7	133	38	17.08	17.53	-0.36	
31	BRO	IPD	14 21 6.10				24	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	KRN	EP 4	14 21 9.55				37	2.7	125.1	68	38	21.28	20.85	0.43	
31	BGB	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	22.58	22.47	0.10	
31	LSM	EP	14 21 10.75				49	3.0	136.1	116	30	22.48	22.59	-0.11	
31	LOP	EP	14 21 11.60				34	2.7	139.5	110	30	23.33	23.04	0.29	
31	AMR	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	QCS	EPD4	14 21 15.55				23	2.4	162.1	70	30	27.28	25.98	1.30	
31	GMR	EPU4	14 21 15.92						166.2	88	30	27.65	26.50	1.15	
31	TPU	EPD4	14 21 18.07				33	2.8	180.3	78	30	29.80	28.34	1.46	
FEB H = 15 47 49.59 UTC    RMS = 0.13    NO = 5    FREE DEPTH SOLUTION 01 LAT = 37.569 N    ERX = 2.1    ERH = 2.2    AVFM = 1.0    Q = C LONG = 117.890 W    ERY = 0.8    GAP = 200    AVXM =    QS = B    SILVER PEAK DEPTH = 1.64 KM    ERZ = 3.2    NM =    QD = D															
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	IPU4	15 47 56.12				6	0.8	37.6	112	38	6.53	6.47	0.06	
		ISU	15 48 0.86									11.27	11.33	-0.06	
01	LCH	EP 4	15 47 58.15				7	1.0	42.9	150	38	8.56	7.34	1.23	VERY E
01	MZP	EP 4	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	NMN	EPU4	15 48 8.61						109.4	120	38	19.02	18.15	0.87	



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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SFL)	TCAL (SEC)	RES (SEC)	REMARKS
.....															
	FEB	H = 4	49 35.59 UTC	RMS =	0.02	NO =	5								FREE DEPTH SOLUTION
	02	LAT =	37.158 N	ERX =	0.1	ERH =	0.2	AVFM =	1.8	Q =	C				
		LONG =	117.410 W	ERY =	0.2	GAP =	145	AVXM =		QS =	A				MT. JACKSON
		DEPTH =	13.13 KM	ERZ =	1.2	NM =				QD =	D				
.....															
	02	GVN	EPD 4 49 39.48					22 1.9	18.3	161	123	3.89	3.90	-0.01	
	02	LCH	EP 4 49 40.10					17 1.7	22.7	292	118	4.51	4.51	-0.00	
	02	SGV	IPD 4 49 42.58					17 1.7	38.9	120	107	6.99	6.95	0.04	
	02	NMN	EPD 4 49 44.79					18 1.8	53.3	99	102	9.20	9.22	-0.02	
		ISU4	4 49 51.63									16.04	16.14	-0.10	
	02	TPK	EP 4 49 45.40					19 1.9	55.2	77	102	9.81	9.52	0.29	
		ES	4 49 52.25									16.66	16.65	0.00	
	02	MCA	EPD4 4 49 53.15					13 1.6	57.7	168	101	17.56	9.92	7.64	
	02	BRO	EPD4 4 49 56.60						82.5	122	98	21.01	13.89	7.12	
	02	BGB	EPD4 4 49 53.45						105.9	97	53	17.86	17.39	0.51	
.....															
	FEB	H = 7	37 9.77 UTC	RMS =	0.04	NO =	5								FREE DEPTH SOLUTION
	02	LAT =	36.823 N	ERX =	1.1	ERH =	1.3	AVFM =	1.0	Q =	C				
		LONG =	116.233 W	ERY =	0.6	GAP =	141	AVXM =		QS =	B				LATHROP WELLS
		DEPTH =	9.38 KM	ERZ =	2.4	NM =				QD =	D				
.....															
	02	LOP	IPD 7 37 11.89					15 1.5	6.8	59	141	2.12	2.08	0.03	
		ISU4	7 37 12.88									3.11	3.65	-0.54	
	02	LSM	EP 7 37 12.15					8 1.0	9.9	200	131	2.38	2.43	-0.05	
		ISD4	7 37 13.25									3.48	4.25	-0.77	
	02	SDH	EPD 7 37 13.85					4 0.4	21.8	205	110	4.08	4.12	-0.04	
	02	BGB	EPD 7 37 14.13					11 1.3	23.9	1	109	4.36	4.44	-0.04	
	02	BRO	EP 7 37 16.10						35.6	259	103	6.33	6.28	0.05	
.....															
	FEB	H = 5	56 34.14 UTC	RMS =	0.03	NO =	5								FREE DEPTH SOLUTION
	04	LAT =	36.593 N	ERX =	1.4	ERH =	3.0	AVFM =	1.3	Q =	D				
		LONG =	116.255 W	ERY =	2.7	GAP =	284	AVXM =		QS =	C				LATHROP WELLS
		DEPTH =	6.68 KM	ERZ =	1.0	NM =				QD =	D				
.....															
	04	SDH	IPU 5 56 36.25					8 1.0	9.4	308	121	2.11	2.11	0.01	
		ISU4	5 56 36.85									2.71	3.69	-0.97	
	04	LSM	IPD 5 56 37.20					25 2.0	16.2	355	108	3.06	3.12	-0.06	
	04	LOP	EP 5 56 39.45					12 1.4	30.0	15	100	5.31	5.30	0.02	
		ISD4	5 56 43.30									9.16	9.27	-0.11	
	04	BRO	EPD 5 56 40.72					7 1.0	38.0	300	98	6.58	6.59	-0.00	
	04	BGB	EPD 5 56 42.55						49.4	3	96	8.41	8.42	0.04	VERY E
.....															
	FEB	H = 14	5 54.79 UTC	RMS =	0.01	NO =	5								FREE DEPTH SOLUTION
	04	LAT =	37.173 N	ERX =	0.1	ERH =	0.2	AVFM =	1.9	Q =	C				
		LONG =	115.458 W	ERY =	0.1	GAP =	119	AVXM =		QS =	A				ALAMO
		DEPTH =	9.29 KM	ERZ =	0.8	NM =				QD =	D				
.....															
	04	EPR	IPU 14 5 59.26					39 2.4	24.1	91	108	4.47	4.48	-0.00	
	04	GMR	IPU4 14 5 59.60					30 2.2	33.0	303	103	4.81	5.86	-1.05	
	04	PRN	IPD4 14 6 2.66					26 2.1	44.5	54	100	7.87	7.70	0.17	
	04	GLR	IPD 14 6 3.18					8 1.1	49.7	273	99	8.39	8.54	0.01	
	04	MTI	EPD4 14 6 4.17					22 2.0	58.2	16	98	9.38	9.90	-0.32	
	04	CPX	IPU4 14 6 5.11					11 1.4	59.8	243	97	10.32	10.16	0.16	
	04	SPRG	IPU 14 6 5.25					16 1.8	61.7	210	97	10.46	10.46	-0.00	
	04	BGB	EPD4 14 6 6.66					18 1.9	70.0	258	96	11.87	11.81	0.11	
	04	NPN	EPD 14 6 6.68					24 2.1	70.4	41	96	11.89	11.87	0.02	
	04	SRG	EPD 14 6 9.15						85.9	24	95	14.36	14.38	-0.02	
.....															
	FEB	H = 16	21 18.68 UTC	RMS =	0.11	NO =	17								FREE DEPTH SOLUTION
	04	LAT =	36.625 N	ERX =	0.3	ERH =	0.4	AVFM =	2.2	Q =	B				
		LONG =	116.326 W	ERY =	0.3	GAP =	127	AVXM =		QS =	B				LATHROP WELLS
		DEPTH =	2.30 KM	ERZ =	2.5	NM =				QD =	B				
.....															
	04	SDH	IPU 16 21 19.49						2.5	335	114	0.81	0.79	0.02	
	04	LSM	IPU 16 21 21.09						13.6	21	93	2.41	2.56	-0.15	NOISE
	04	AMR	IPD 16 21 23.54					28 2.1	28.5	208	91	4.86	4.99	-0.13	
	04	LOP	IPD 16 21 23.69						29.1	29	91	5.01	5.09	-0.08	NOISE
	04	BRO	IPU 16 21 23.80					25 2.0	30.8	300	91	5.12	5.37	-0.25	
	04	SSP	IPU 16 21 24.55					38 2.4	34.7	16	90	5.87	5.99	-0.12	
	04	FMT	EPD4 16 21 25.16						40.5	272	90	6.48	6.94	-0.36	
	04	CPX	IPD 16 21 25.61					34 2.3	41.3	35	90	6.93	7.07	-0.14	
	04	BGB	IPD 16 21 26.60					35 2.4	46.7	11	90	7.92	7.94	0.03	
	04	SPRG	EPD 16 21 26.69					34 2.4	46.8	81	90	8.01	7.96	0.05	
	04	GWV	EPD 16 21 28.55					24 2.1	57.6	212	90	9.87	9.72	0.05	

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1980	STA	PHASE	TIME (UTC)	AMP PER (MU) (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (D/G)	AIN (D/G)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
04	NMN	IPD	16 21 30.00				33 2.4	67.0	319	90	11.32	11.24	0.08	
04	GLR	EPD	16 21 30.10					69.4	23	90	11.42	11.64	-0.07	
04	PGE	EPU4	16 21 30.30				17 1.8	73.0	245	90	11.62	12.22	-0.60	
04	SGV	IPU	16 21 31.25					74.4	302	90	12.57	12.45	0.12	
04	QSM	EPD	16 21 33.40				18 1.9	87.9	214	90	14.72	14.64	0.08	VERY E
04	GMR	EPD	16 21 34.45				31 2.4	92.9	32	90	15.77	15.46	0.31	
04	TPD	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 = 37.074 N ERX = 0.7 ERH = 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				14 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 21.85								6.77	6.65	0.12	
05	LOP	EP 4	4 36 20.00				9 1.1	24.6	174	105	4.92	4.48	0.44	
05	BLT	EP 4	4 36 23.70					43.3	7	98	8.62	7.47	1.15	VERY E
05	GMR	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 ERH = 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	NMN	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	SSP	EP 4	5 56 23.80				7 1.0	43.0	132	101	7.83	7.48	0.35	
06	LOP	EPD	5 56 24.83				9 1.2	51.7	135	99	8.86	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 ERH = 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	NMN	IPU	6 49 21.46				7 0.9	22.0	237	132	5.12	5.12	0.00	
	ISU		6 49 25.29								8.95	8.95	-0.00	
06	EPN	IPD4	6 49 24.49					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	LOP	EP	6 49 26.06				7 1.0	54.3	133	110	9.72	9.72	0.00	
06	LSM	EP	6 49 26.69					58.5	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 ERH = 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	SDH	IPU	9 0 55.81				18 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	SSP	IPU	9 1 0.95					30.6	12	38	5.49	5.54	-0.06	
06	BRO	IPU4	9 1 0.20				17 1.7	32.3	292	38	4.74	5.83	-1.09	
06	AMR	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	38	11.49	10.70	0.69	
06	GLR	EPD	9 1 6.90					65.0	22	38	11.44	11.15	0.44	
06	NMN	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	GMR	EPD4	9 1 11.36				20 2.0	88.3	31	38	15.90	14.93	0.97	
06	QSM	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	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TUBS (SEC)	TCAL (SEC)	RFS (SEC)	REMARKS
. 06	MTI	EPD4	9 1 20.61						144.9	39	30	25.15	23.81	1.54	
.....															
. FEB H = 11 49 14.86 UTC RMS = 0.06 NO = 7 FREE DEPTH SOLUTION															
. 06	LAT = 36.621 N			ERX =	0.5	ERH =	0.6	AVFM =	1.2	Q = B		FREE DEPTH SOLUTION			
. 06	LONG = 116.325 W			ERY =	0.4	GAP =	180	AVXM =		QS = A		LATHROP WELLS			
. 06	DEPTH = 1.34 KM			ERZ =	0.5	NM =				QD = C					
.....															
. 06	SDH	IPD	11 49 15.70				9	1.0	2.9	337	115	0.84	0.84	-0.01	
. 06	LSM	IPU	11 49 17.48						13.9	20	38	2.62	2.69	-0.07	
. 06	AMR	EPD	11 49 19.86						28.2	208	38	5.00	5.01	-0.01	
. 06	LOP	EPU	11 49 20.10				14	1.5	29.4	29	38	5.24	5.21	0.02	
. 06	BRU	IPU	11 49 20.13				8	1.0	31.1	300	38	5.27	5.48	-0.21	
. 06	FMT	IPD	11 49 21.85				10	1.3	40.6	273	38	6.99	7.03	0.05	
. 06	BGB	IPD	11 49 22.93						47.0	11	38	8.07	8.07	0.04	
.....															
. FEB H = 2 42 24.53 UTC RMS = 0.04 NO = 5 FREE DEPTH SOLUTION															
. 17	LAT = 37.163 N			ERX =	1.4	ERH =	1.7	AVFM =	1.1	Q = C		FREE DEPTH SOLUTION			
. 17	LONG = 116.103 W			ERY =	0.8	GAP =	213	AVXM =		QS = B		SILENT CANYON - YUCCA FLAT			
. 17	DEPTH = 11.13 KM			ERZ =	2.3	NM =				QD = D					
.....															
. 17	GLR	IPD	2 42 26.87				7	0.9	8.6	62	140	2.34	2.49	0.00	
. 17	BGB	IPD4	2 42 28.54				14	1.5	17.8	218	119	4.01	3.65	0.41	
. 17	SSP	EPD4	2 42 29.47						28.3	201	109	4.94	5.22	-0.28	
. 17	LOP	EP	2 42 30.80				9	1.2	34.8	189	106	6.27	6.22	0.05	
. 17		ISD	2 42 35.34									10.81	10.88	-0.07	
. 17	GMR	IPD4	2 42 31.41						35.1	57	106	6.88	6.26	0.61	
. 17	CDH5	IPD	2 42 31.30				8	1.1	38.6	210	104	6.77	6.82	-0.06	
. 17		ISD	2 42 36.55									12.02	11.94	0.07	
.....															
. 17	LSM	EP 4	2 42 33.52						49.4	198	101	8.99	8.53	0.45	NOISE
. 17		ISU4	2 42 40.15									15.62	14.93	0.68	
.....															
. FEB H = 23 42 50.66 UTC RMS = 0.21 NO = 5 FREE DEPTH SOLUTION															
. 19	LAT = 37.390 N			ERX =	3.2	ERH =	3.9	AVFM =	1.3	Q = D		FREE DEPTH SOLUTION			
. 19	LONG = 117.510 W			ERY =	2.3	GAP =	157	AVXM =		QS = C		MAGRUDER MOUNTAIN			
. 19	DEPTH = 23.93 KM			ERZ =	1.7	NM =				QD = D					
.....															
. 19	MGM	EP	23 42 54.71				11	1.2	5.8	12	166	4.05	4.18	-0.12	
. 19		ISD	23 42 58.20									7.54	7.31	0.23	
. 19	LCH	EPU	23 42 55.66				11	1.3	21.1	215	138	5.04	5.39	-0.38	
. 19		ESD	23 43 0.32									9.43	9.43	0.24	
. 19	GMN	IPD4	23 42 51.45				11	1.3	24.3	114	133	0.4	5.76	-4.96	
. 19	MZP	IPU4	23 43 4.55						36.3	18	53	13.6	7.29	6.79	
. 19	GVN	EP 4	23 42 55.23				12	1.4	45.6	161	53	4.57	8.50	-3.93	
. 19		ISD4	23 42 58.15									7.49	14.87	-7.38	
. 19	SGV	EPU	23 43 1.30						62.1	137	53	10.64	10.64	0.00	
. 19	NMN	IPU4	23 43 3.71						70.4	119	53	13.05	11.71	1.34	
.....															
. FEB H = 1 41 32.91 UTC RMS = 0.07 NO = 8 FREE DEPTH SOLUTION															
. 20	LAT = 37.744 N			ERX =	0.4	ERH =	0.5	AVFM =	1.3	Q = B		FREE DEPTH SOLUTION			
. 20	LONG = 115.103 W			ERY =	0.3	GAP =	128	AVXM =		QS = A		HIKO			
. 20	DEPTH = 20.98 KM			ERZ =	0.8	NM =				QD = B					
.....															
. 20	SRG	IPD	1 41 37.35				20	1.8	15.7	11	142	4.44	4.45	-0.01	
. 20		ES	1 41 40.68									7.77	7.79	-0.02	
. 20	MTI	IPU	1 41 37.42				9	1.1	16.7	244	140	4.51	4.56	0.15	
. 20		ES	1 41 40.50									7.59	7.63	-0.04	
. 20	NPN	IPU4	1 41 36.75				9	1.1	17.8	125	139	3.84	4.67	-0.83	
. 20		ES 4	1 41 40.10									7.19	8.17	-0.98	
. 20	DLM	EPD	1 41 39.81				9	1.2	35.5	115	119	6.90	6.95	-0.05	
. 20		ISU	1 41 45.16									12.25	12.16	0.09	
. 20	PRN	EPU	1 41 40.10				11	1.3	37.7	173	118	7.19	7.25	-0.06	
. 20		ESD	1 41 45.55									12.64	12.69	-0.05	
. 20	WRN	EP 4	1 41 36.65						50.2	302	111	3.74	9.11	-5.37	
.....															
. FEB H = 2 52 52.34 UTC RMS = 0.08 NO = 7 FREE DEPTH SOLUTION															
. 20	LAT = 37.277 N			ERX =	0.5	ERH =	0.8	AVFM =	1.1	Q = B		FREE DEPTH SOLUTION			
. 20	LONG = 117.275 W			ERY =	0.6	GAP =	90	AVXM =		QS = A		MT. JACKSON			
. 20	DEPTH = 8.77 KM			ERZ =	1.3	NM =				QD = B					
.....															
. 20	GMN	IPD	2 52 53.99				10	1.1	3.0	28	160	1.65	1.68	-0.03	
. 20	MGM	IPU	2 52 57.31				7	0.9	26.8	313	105	4.97	4.86	0.11	
. 20		ISD	2 53 0.73									8.39	8.51	-0.12	
. 20	GVN	FPD	2 52 57.87				10	1.2	31.1	191	103	5.53	5.54	-0.01	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PFP (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOMS (SEC)	TCL (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	NMN	EP	2 53 0.15						46.0	118	99	7.81	7.93	-0.11	
		ISD	2 53 6.30									13.96	13.87	0.09	
20	MZP	EPD4	2 53 7.09						48.0	349	99	14.75	8.25	6.70	
20	GLR	EPD4	2 53 11.45						112.0	94	94	19.51	18.60	1.07	
.....															
FEB H = 4 44 18.52 UTC RMS = 0.08 NO = 6 FREE DEPTH SOLUTION															
21 LAT = 36.924 N ERX = 0.8 ERH = 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	113	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	EPD4	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	EPD	4 44 29.16						61.7	21	105	10.64	10.72	-0.08	
21	SGV	EPD	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	NMN	EPD4	4 44 33.27					16 1.8	84.8	78	53	14.75	14.20	0.55	
21	BRQ	EPD4	4 44 36.23					15 1.8	102.0	100	53	17.71	16.44	1.27	
21	QSM	EPD4	4 44 41.95					22 2.3	132.5	143	53	23.43	20.40	3.03	
21	BGB	EPD4	4 44 40.95					24 2.4	136.2	85	53	22.43	20.87	1.61	
21	SPRG	EPD4	4 44 48.56						175.1	98	53	30.04	25.93	4.11	
.....															
FEB H = 4 52 0.85 UTC RMS = 0.03 NO = 5 FREE DEPTH SOLUTION															
21 LAT = 36.924 N ERX = 4.6 ERH = 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	EPD	4 52 6.16					18 1.7	30.5	115	38	5.31	5.34	-0.03	
21	GVN	EPD	4 52 6.82					15 1.6	34.5	75	38	5.97	5.98	-0.01	
21	LCH	EPD4	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 1.8	49.5	128	38	8.45	8.43	0.02	
21	PPK	EP 4	4 52 9.56					10 1.3	58.3	343	38	8.71	9.85	-1.14	
21	SGV	EPD	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	NMN	EP 4	4 52 25.22						81.9	78	38	24.37	13.70	10.67	
21	BRQ	EPD4	4 52 17.75					14 1.8	99.1	100	38	16.90	16.49	0.41	
21	BGB	EPD4	4 52 23.30						133.2	85	38	22.45	22.04	0.46	
.....															
FEB H = 3 37 52.71 UTC RMS = 0.10 NO = 6 FREE DEPTH SOLUTION															
22 LAT = 37.378 N ERX = 0.5 ERH = 1.0 AVFM = 1.9 Q = C															
LONG = 115.652 W ERY = 0.9 GAP = 152 AVXM = QS = B GROOM LAKE															
DEPTH = 10.45 KM ERZ = 2.0 NM = QD = C															
22	GMR	IPD4	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	IPD4	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	EPD4	3 38 0.51					19 1.9	47.4	119	101	7.80	8.19	-0.39	
22	PRN	IPD	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	EPD4	3 38 2.97						61.5	216	98	10.26	10.46	-0.20	
22	EPN	IPD4	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	
	ESD4	3 38 11.62										18.91	18.78	0.13	
22	NPN	EPD4	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	NMN	EPD	3 38 10.89					18 2.0	108.6	252	53	18.18	18.01	0.18	
.....															
FEB H = 5 56 24.61 UTC RMS = 0.03 NO = 6 FREE DEPTH SOLUTION															
24 LAT = 36.472 N ERX = 0.5 ERH = 0.6 AVFM = 0.7 Q = B															
LONG = 116.454 W ERY = 0.3 GAP = 177 AVXM = QS = A ASH MEADOWS															
DEPTH = 8.98 KM ERZ = 0.5 NM = QD = C															
24	AMR	EPD	5 56 26.80					7 0.8	8.4	192	154	2.19	2.21	-0.02	
	ISU	5 56 28.46										3.85	3.86	-0.01	
24	SDH	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	
	ESD4	5 56 35.81										11.20	10.48	0.72	
24	GWV	EP 4	5 56 36.05						37.1	212	101	11.44	6.51	4.83	VERY E
	ES	5 56 36.20										11.59	11.56	0.02	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOB3 (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
.	24	MCX	EP	5	56	32.59			46.2	64	99	7.98	7.96	0.01	VERY E
.	24	LOP	EP 4	5	56	32.90			49.6	31	99	8.29	8.50	-0.21	VERY E
.....															
.	FEB H = 16 23 56.93 UTC RMS = 0.13 NO = 5 FREE DEPTH SOLUTION														
.	24	LAT =	37.023 N	ERX =	1.6	ERH =	1.8	AVFM =	0.9	Q =	C				
.		LONG =	117.502 W	ERY =	0.9	GAP =	170	AVXM =		QS =	B	MAGRUDER MOUNTAIN			
.		DEPTH =	16.37 KM	ERZ =	4.3	NM =				QD =	D				
.	24	GVN	EPU	16	24	0.75		6	0.7	14.4	100	137	3.82	3.75	0.07
.		ISU	16	24	3.56								6.63	6.56	0.06
.	24	TMO	EPU4	16	24	2.86		8	1.0	25.6	161	121	5.93	5.18	0.75
.		ESU	16	24	5.88								8.95	9.06	-0.11
.	24	LCH	EP 4	16	24	1.89		7	0.9	26.8	331	120	4.96	5.34	-0.39
.		ES	16	24	6.30								9.37	9.35	0.02
.	24	MCA	EPU4	16	24	6.40		7	1.0	46.1	155	108	9.47	8.23	1.24
.		ESU	16	24	11.90								14.97	14.39	0.57
.....															
.	FEB H = 20 36 57.56 UTC RMS = 0.02 NO = 5 FREE DEPTH SOLUTION														
.	24	LAT =	37.249 N	ERX =	0.7	ERH =	0.8	AVFM =	0.8	Q =	C				
.		LONG =	117.598 W	ERY =	0.2	GAP =	133	AVXM =		QS =	A	MAGRUDER MOUNTAIN			
.		DEPTH =	7.41 KM	ERZ =	1.4	NM =				QD =	D				
.	24	LCH	EPU	20	36	59.18		9	1.1	4.6	250	145	1.62	1.61	0.01
.	24	MGM	EPU	20	37	1.79		3	0.2	23.2	23	105	4.23	4.24	-0.01
.		ESU4	20	37	4.71								7.15	7.41	-0.26
.	24	GMN	EPU	20	37	2.98				30.5	79	101	5.42	5.41	0.01
.	24	GVN	EP	20	37	3.76		8	1.1	35.7	140	99	6.20	6.23	-0.03
.		ESU4	20	37	8.39								10.83	10.90	-0.07
.	24	SGV	EPD	20	37	7.50				58.4	121	96	9.94	9.90	0.04
.....															
.	FEB H = 4 5 27.29 UTC RMS = 0.04 NO = 5 FREE DEPTH SOLUTION														
.	26	LAT =	37.185 N	ERX =	0.3	ERH =	0.6	AVFM =	0.7	Q =	C				
.		LONG =	117.173 W	ERY =	0.4	GAP =	141	AVXM =		QS =	B	MT. JACKSON			
.		DEPTH =	10.72 KM	ERZ =	2.2	NM =				QD =	D				
.	26	GMN	EPU	4	5	30.49		4	0.4	14.9	329	123	3.20	3.22	-0.01
.	26	GVN	EPU	4	5	32.05		6	0.8	25.3	216	110	4.76	4.74	0.03
.	26	SGV	EPU4	4	5	32.38				25.9	151	110	5.05	4.82	0.28
.	26	NMN	EPU	4	5	33.29		7	0.9	33.6	110	106	6.01	6.02	-0.01
.	26	MGM	IPU	4	5	34.45				40.4	315	103	7.11	7.08	0.08
.	26	LCH	EP	4	5	34.66				42.5	277	102	7.37	7.42	-0.04
.	26	MCA	EPU4	4	5	44.70				60.3	189	99	17.41	10.28	7.14
.	26	BRO	EPD4	4	5	39.18				67.6	134	98	11.89	11.45	0.44
.....															
.	FEB H = 12 27 18.82 UTC RMS = 0.05 NO = 7 FREE DEPTH SOLUTION														
.	28	LAT =	36.776 N	ERX =	0.5	ERH =	0.7	AVFM =	1.7	Q =	C				
.		LONG =	117.468 W	ERY =	0.4	GAP =	212	AVXM =		QS =	A	TIN MOUNTAIN			
.		DEPTH =	8.33 KM	ERZ =	0.9	NM =				QD =	D				
.	28	TMO	IPU	12	27	20.70				6.3	58	140	1.88	1.89	-0.01
.	28	MCA	IPU	12	27	22.93				21.9	130	108	4.11	4.08	0.03
.	28	GVN	IPD	12	27	23.80		17	1.7	27.4	24	104	4.98	4.94	0.04
.	28	SGV	EPU	12	27	26.45				45.0	60	99	7.63	7.75	-0.12
.	28	LCH	EP	12	27	27.90		13	1.5	53.4	343	97	9.08	9.10	-0.02
.	28	NMN	EPU	12	27	30.19		18	1.9	67.1	60	96	11.37	11.31	0.06
.	28	BRO	EPD	12	27	31.42				75.2	91	95	12.60	12.63	-0.03
.	28	BGB	EPD	12	27	38.40				114.3	75	53	19.58	18.95	0.68
.....															
.	FEB H = 19 3 48.17 UTC RMS = 0.04 NO = 7 FREE DEPTH SOLUTION														
.	28	LAT =	37.181 N	ERX =	0.3	ERH =	0.3	AVFM =	2.2	Q =	B				
.		LONG =	117.191 W	ERY =	0.2	GAP =	125	AVXM =		QS =	A	MT. JACKSON			
.		DEPTH =	7.17 KM	ERZ =	1.7	NM =				QD =	C				
.	28	GMN	IPU	19	3	51.05		51	2.6	14.6	335	112	2.88	2.89	-0.01
.	28	GVN	EPD	19	3	52.54		42	2.5	24.1	214	103	4.37	4.37	0.00
.	28	SGV	IPU	19	3	52.90		41	2.4	26.3	148	102	4.73	4.72	0.01
.	28	NMN	IPU	19	3	54.26		36	2.4	34.9	109	99	6.09	6.10	-0.01
.	28	MGM	IPU	19	3	54.95		32	2.3	39.6	317	98	6.78	6.85	-0.07
.	28	LCH	EPU4	19	3	55.10				41.0	278	98	6.93	7.08	-0.14
.	28	BMT	IPU4	19	3	56.79		39	2.5	59.4	79	95	8.62	10.06	-1.83
.	28	MZP	EPU	19	3	58.25		11	1.4	60.1	344	95	10.08	10.17	0.10
.	28	BRO	IPU4	19	3	59.50		22	2.1	68.5	133	95	11.33	11.52	-0.19

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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	PPK	EP 4	19 3 59.87					12 1.5	69.1	293	95	11.70	11.63	0.08	
. 28	FMT	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	GMR	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 ERH = 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	GMR	IPU4	7 36 15.24						15.8	303	115	2.68	3.18	-0.50	
. 01	GLR	EPD	7 36 18.70						35.7	260	101	6.14	6.27	0.02	
. 01	EPR	EPD4	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					10 1.3	56.0	33	97	9.36	9.53	0.03	
. 01	BGB	EP	7 36 22.45					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	EPD4	7 36 25.17						65.9	227	96	12.61	11.12	1.48	
. 01	BMT	EP 4	7 36 29.00						80.9	272	95	16.44	13.56	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 ERH = 0.1 AVFM = 0.9 Q = C															
. LONG = 117.738 W ERY = 0.0 GAP = 180 AVXM = QS = A SILVER PEAK															
. DEPTH = 8.66 KM ERZ = 0.4 NM = QD = D															
. 03	PPK	EPD	3 18 54.05					6 0.7	18.2	235	112	3.53	3.53	-0.01	
. 03	ISD		3 18 56.71									6.19	6.18	0.00	
. 03	SVP	IPU	3 18 54.85					12 1.4	22.4	346	108	4.33	4.17	0.01	
. 03	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	LCH	EP	3 18 56.31					7 0.9	32.7	166	103	5.79	5.79	-0.00	
. 03	ESD4		3 18 0.10									-50.42	10.13	-60.55	
. 03	NMN	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 ERH = 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	EPD	16 60 1.21					17 1.7	36.0	97	99	6.09	6.28	-0.19	NOISE
. 03	NMN	EP	16 60 4.09					25 2.1	52.7	208	96	8.97	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	GMR	EP	16 60 6.40					10 1.4	67.6	251	95	11.28	11.38	-0.11	
. 03	GMR	EPD	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	LCH	EP	16 60 12.35					14 1.8	102.5	253	93	17.23	17.05	0.18	
. 03	TMD	EPD4	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 ERH = 2.8 AVFM = Q = D															
. LONG = 117.146 W ERY = 2.6 GAP = 281 AVXM = QS = C SEARLES LAKE															
. DEPTH = 1.93 KM ERZ = 1.0 NM = QD = D															
. 06	QSM	IPD	7 45 35.22						37.1	43	90	6.37	6.38	-0.01	
. 06	GWV	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	AMR	IPU4	7 45 45.10						96.5	39	90	16.25	16.05	0.20	
. 06	NOP	EPD4	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	17.80	17.79	0.11	
.....															
. 06	TMD	IPD4	7 45 48.85						122.7	349	90	20.00	20.30	-0.30	
. 06	SGH	IPU4	7 45 50.55						125.8	35	90	21.70	20.81	0.89	
. 06	SGV	EPD4	7 45 51.69						140.3	4	53	22.64	22.95	-0.11	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DFG)	TOBS (SEC)	TGAL (SEC)	RIS (SEC)	REMARKS
. 06	LOP	IPU	7 45 53.55						153.5	35	53	24.70	24.67	0.03	.
. 06	NMN	EPU	7 45 53.50						153.8	11	53	24.65	24.71	-0.06	.
. 06	SPRG	EPU4	7 45 54.09						161.7	48	53	25.24	25.73	-0.49	.
. 06	CPX	EPU	7 45 55.09						165.9	36	53	26.24	26.28	-0.04	.
. 06	LCH	EP	7 45 56.22						173.9	345	53	27.37	27.32	0.05	.
. 06	SHRG	EP	7 45 59.50						199.3	64	53	30.65	30.62	0.08	.
. 06	MZP	EP 4	7 46 3.90						220.8	355	53	35.05	33.41	1.63	.
.....															
MAR H = 16 50 7.41 UTC RMS = 0.01 NO = 6 FREE DEPTH SOLUTION															
. 07	LAT	=	37.326 N	ERX	=	0.2	ERH	=	0.2	AVFM	=	0.6	Q	=	B
. 07	LONG	=	117.315 W	ERY	=	0.1	GAP	=	171	AVXM	=		QS	=	A
. 07	DEPTH	=	9.49 KM	ERZ	=	0.4	NM	=					QD	=	C
.....															
. 07	GMN	EPU	16 50 9.40				6	0.7	5.7	120	147	1.99	1.99	0.00	.
. 07	MGM	EPD	16 50 11.34				4	0.4	20.5	309	112	3.93	3.94	-0.01	.
. 07	LCH	EP	16 50 12.99						31.1	251	105	5.58	5.58	0.00	.
. 07	GVN	EP	16 50 13.79				6	0.8	36.1	184	103	6.38	6.36	0.02	.
. 07	GVN	EP	16 50 13.75						36.1	184	103	6.34	6.36	-0.02	.
. 07	ISU		16 50 18.53									11.12	11.13	-0.01	.
.....															
MAR H = 18 12 11.50 UTC RMS = 0.03 NO = 6 FREE DEPTH SOLUTION															
. 07	LAT	=	37.789 N	ERX	=	0.5	ERH	=	0.6	AVFM	=	2.0	Q	=	B
. 07	LONG	=	115.658 W	ERY	=	0.4	GAP	=	162	AVXM	=		QS	=	A
. 07	DEPTH	=	12.09 KM	ERZ	=	0.8	NM	=					QD	=	C
.....															
. 07	QCS	IPU	18 12 13.86				18	1.7	5.6	246	154	2.36	2.35	0.01	.
. 07	TPU	IPU4	18 12 15.55				28	2.1	27.5	138	112	4.05	5.14	-1.09	.
. 07	WRN	EPD	18 12 17.32				18	1.8	31.9	48	109	5.82	5.83	-0.00	.
. 07	BLT	EPU	18 12 19.10				20	1.9	43.8	214	104	7.60	7.68	-0.08	.
. 07	GMR	IPU4	18 12 20.00				18	1.8	51.1	171	102	8.50	8.83	-0.33	.
. 07	GLR	EP	18 12 22.80						66.9	192	99	11.30	11.37	0.08	VERY E
. 07	NPV	EPD4	18 12 25.90				20	2.0	82.6	101	97	14.40	13.89	0.51	.
. 07	PRN	EPD	18 12 25.45				22	2.1	83.0	121	97	13.95	13.96	-0.00	.
. 07	EPR	EPD4	18 12 27.88						90.9	139	97	16.38	15.23	1.15	.
. 07	CPX	EPD	18 12 27.70				17	1.9	97.1	191	96	16.20	16.23	-0.03	.
. 07	DLM	EPD4	18 12 29.28				17	1.9	100.8	102	53	17.78	16.82	0.96	.
. 07	SPRG	EPU4	18 12 32.50				27	2.4	121.6	178	53	21.00	19.53	1.48	VERY E
. 07	GVN	EPD4	18 12 39.28				24	2.4	157.8	236	53	27.78	24.23	3.55	.
.....															
MAR H = 18 4 15.47 UTC RMS = 0.05 NO = 5 FREE DEPTH SOLUTION															
. 08	LAT	=	37.510 N	ERX	=	0.6	ERH	=	1.5	AVFM	=	1.0	Q	=	D
. 08	LONG	=	115.348 W	ERY	=	1.4	GAP	=	129	AVXM	=		QS	=	C
. 08	DEPTH	=	12.69 KM	ERZ	=	5.1	NM	=					QD	=	D
.....															
. 08	MTI	IPD	18 4 19.35				10	1.2	19.7	20	121	3.88	4.04	0.04	.
. 08	ISU		18 4 22.20									6.73	6.72	0.01	.
. 08	TPU	EPD	18 4 20.75				7	0.9	28.6	292	112	5.28	5.35	-0.07	.
. 08	PRN	EPD	18 4 20.80				10	1.2	28.7	113	112	5.33	5.37	-0.03	.
. 08	GMR	EP	18 4 23.00				5	0.7	42.3	242	105	7.53	7.46	0.07	VERY E
.....															
MAR H = 10 28 47.73 UTC RMS = 0.08 NO = 6 FREE DEPTH SOLUTION															
. 12	LAT	=	37.239 N	ERX	=	0.6	ERH	=	0.9	AVFM	=	0.4	Q	=	B
. 12	LONG	=	117.146 W	ERY	=	0.6	GAP	=	175	AVXM	=		QS	=	A
. 12	DEPTH	=	12.33 KM	ERZ	=	1.3	NM	=					QD	=	C
.....															
. 12	GMN	IPU	10 28 50.59				4	0.4	12.2	304	133	2.86	3.03	-0.17	.
. 12	ISU		10 28 53.10									5.37	5.30	0.07	.
. 12	SGV	EP	10 28 53.35						30.3	161	110	5.62	5.58	0.04	.
. 12	ESD		10 28 57.43									9.70	9.77	-0.07	.
. 12	GVN	EP 4	10 28 54.39						31.6	214	109	6.66	5.78	0.88	.
. 12	NMN	IPU4	10 28 52.73						33.9	121	108	5.00	6.14	-1.14	.
. 12	ISD		10 28 58.52									10.79	10.75	0.04	.
. 12	MGM	IPU	10 28 54.62						38.4	306	106	6.89	6.84	0.05	.
.....															
MAR H = 1 34 20.90 UTC RMS = 0.10 NO = 7 FREE DEPTH SOLUTION															
. 14	LAT	=	36.541 N	ERX	=	1.6	ERH	=	1.7	AVFM	=	1.6	Q	=	C
. 14	LONG	=	116.443 W	ERY	=	0.5	GAP	=	155	AVXM	=		QS	=	B
. 14	DEPTH	=	11.74 KM	ERZ	=	4.8	NM	=					QD	=	C
.....															
. 14	SGH	IPU4	1 34 23.45				13	1.4	14.9	39	126	2.55	3.31	-0.76	.
. 14	AMR	EPD	1 34 24.39						16.1	190	124	3.49	3.47	0.01	.
. 14	BRO	EPU4	1 34 27.20						29.5	326	110	6.30	5.44	0.86	.
. 14	ESU		1 34 30.30									9.40	9.52	-0.12	.

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	PES (SEC)	REMARKS
14	JCN	IPU4	1 34 25.86				10	1.2	32.4	110	108	4.96	5.88	-0.92	
14	CDH1	IPU	1 34 27.60				29	2.2	37.2	17	106	6.70	6.62	0.07	
		ISU	1 34 33.71									12.81	11.59	1.22	
14	CDH5	IPU	1 34 27.62				14	1.6	37.2	17	106	6.72	6.62	0.09	
		ESD	1 34 32.58									11.68	11.59	0.09	
14	LDP	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 H = 11 12 39.75 UTC RMS = 0.06 NO = 8 FREE DEPTH SOLUTION															
14	LAT = 37.190 N			ERX =	0.3	ERH =	0.5	AVFM =	1.9	Q = B					
	LONG = 116.674 W			ERY =	0.3	GAP =	108	AVXM =		QS = B		THIRSTY CANYON			
	DEPTH = 17.22 KM			ERZ =	2.5	NM =				QD = B					
14	EPN	IPD	11 12 46.30						31.2	85	117	6.55	6.04	0.51	
14	BGB	EPD	11 12 47.55						43.1	113	110	7.80	7.81	0.04	
14	BRO	EP 4	11 12 52.28						47.6	175	108	12.53	8.50	4.03	
		ESU	11 12 54.60									14.85	14.88	-0.03	
14	CDH5	EPD4	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	CDH1	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	GMN	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	LDP	EPD	11 12 50.00						58.5	130	105	10.25	10.20	0.06	
14	LSM	IPD	11 12 50.35						61.5	144	104	10.60	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 H = 20 52 51.80 UTC RMS = 0.05 NO = 6 FREE DEPTH SOLUTION															
14	LAT = 36.603 N			ERX =	1.2	ERH =	1.3	AVFM =	1.2	Q = C					
	LONG = 116.296 W			ERY =	0.5	GAP =	185	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	EPD	20 52 54.95						15.3	8	123	3.15	3.28	-0.13	
14	JON	EPD	20 52 56.50				6	0.8	25.0	136	111	4.70	4.70	0.00	
14	CDH1	IPU	20 52 57.06				16	1.6	28.6	356	109	5.26	5.25	0.01	
14	CDH5	EP	20 52 57.10				12	1.4	28.6	356	109	5.30	5.25	0.05	
14	LDP	EP	20 52 57.29				7	0.9	30.2	22	108	5.49	5.49	0.00	
.....															
MAR H = 3 39 48.97 UTC RMS = 0.12 NO = 6 FREE DEPTH SOLUTION															
15	LAT = 37.516 N			ERX =	0.5	ERH =	0.8	AVFM =		Q = B					
	LONG = 117.748 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	EPD4	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	LCH	EP	3 39 55.12						32.5	164	110	6.15	5.97	0.18	
15	NMN	EPD4	3 40 5.50						95.6	120	97	16.53	16.01	0.53	
.....															
MAR H = 4 46 24.85 UTC RMS = 0.10 NO = 15 FREE DEPTH SOLUTION															
15	LAT = 36.807 N			ERX =	0.3	ERH =	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	3.3	14.2	343	38	2.67	2.89	-0.22	
15	LCP	IPU	4 46 27.80				114	3.3	14.8	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	CDH5	IPU4	4 46 29.80				121	3.4	27.9	282	38	4.95	5.12	-0.17	
15	CDH1	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	5.80	-0.26	
15	SDH	IPD4	4 46 30.60				109	3.3	34.2	238	38	5.75	6.15	-0.40	
15	JCN	IPD	4 46 32.25				88	3.2	41.5	191	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	EPN	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	AMR	IPD	4 46 35.50				89	3.2	61.4	222	38	10.65	10.57	0.08	
15	GMR	EPD	4 46 35.50				84	3.2	62.3	20	38	10.65	10.71	-0.06	



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. 15	APK	FPU	4 46 36.16					52	2.8	66.8	144	38	11.31	11.44	-0.13
. 15	BLT	EP 4	4 46 36.70					83	3.2	73.4	351	38	11.85	12.53	-0.68
. 15	NOP	EPD	4 46 37.89					53	2.8	76.4	189	38	13.04	13.00	0.04
. 15	NMN	IPU4	4 46 38.35					81	3.2	78.0	293	38	13.50	13.27	0.23
. 15	SHKG	EPU4	4 46 38.60					51	2.8	83.6	114	38	13.75	14.18	-0.38
. 15	EPR	EPD	4 46 39.20					126	3.6	83.7	61	38	14.35	14.20	0.15
. 15	GKV	EPD	4 46 40.35					90	3.4	90.7	221	38	15.50	15.33	0.07
. 15	SGV	EPD4	4 46 41.20					97	3.4	93.0	282	38	16.35	15.70	0.65
. 15	TPU	EPD	4 46 40.60					77	3.2	94.3	20	38	15.75	15.91	-0.16
. 15	PGE	EPU4	4 46 43.34					47	2.8	107.1	242	38	16.49	18.00	0.49
. 15	PRN	EPD4	4 46 43.40					99	3.5	108.4	52	38	18.55	18.21	0.34
. 15	CTS	EPD	4 46 43.96					56	3.0	112.1	326	38	19.11	18.81	0.30
. 15	MTI	EPD	4 46 44.41					70	3.2	116.7	34	38	19.56	19.57	0.19
. 15	GVN	EP 4	4 46 45.57					82	3.4	120.5	280	38	20.72	20.19	0.53
. 15	GMN	EPD4	4 46 45.90					58	3.1	123.7	296	38	21.05	20.70	0.35
. 15	TMO	EPD4	4 46 46.51					60	3.1	124.6	270	38	21.66	20.84	0.82
. 15	NPN	EPU4	4 46 47.59					78	3.4	133.9	45	38	22.74	22.35	0.39
. 15	SRG	EPU4	4 46 49.25					117	3.8	145.8	35	30	24.40	23.94	0.46
. 15	MGM	EPU4	4 46 50.25					64	3.3	149.6	298	30	25.40	24.44	0.96
. 15	LCH	EP 4	4 46 50.68					58	3.2	153.1	288	30	25.83	24.90	0.93
. 15	PPK	EPU4	4 46 54.55					55	3.2	182.0	292	30	29.70	28.64	1.06
. 15	SVP	EPU4	4 46 55.31					75	3.5	187.9	302	30	30.46	29.42	0.89

MAR H = 19 17 16.03 UTC RMS = 0.10 NO = 12 FREE DEPTH SOLUTION  
 . 17 LAT = 36.357 N ERX = 0.4 ERH = 0.5 AVFM = 1.6 Q = B  
 . LONG = 116.571 W ERY = 0.3 GAP = 111 AVXM = QS = B FURNACE CREEK  
 . DEPTH = 4.25 KM ERZ = 4.3 NM = QD = B

. 17	AMR	IPU	19 17 18.15					18	1.7	9.8	62	107	2.12	2.01	0.11	
. 17	GWV	IP	19 17 19.87					23	1.9	20.9	205	97	3.84	3.78	-0.04	
. 17	FMT	IPU4	19 17 21.35					16	1.7	36.5	329	94	5.32	6.30	-0.88	
. 17	SDH	EPD	19 17 22.39					11	1.3	38.2	33	94	6.36	6.58	-0.22	
. 17	JON	EPD	19 17 23.40					16	1.7	43.0	78	94	7.37	7.35	0.02	
. 17	BRO	EPD	19 17 23.45					10	1.3	45.3	354	93	7.42	7.73	-0.31	
. 17	NOP	EPD	19 17 23.80					7	1.0	45.4	124	93	7.77	7.74	0.02	
. 17	LSM	IP	19 17 24.55							50.2	32	93	8.52	8.52	-0.00	
. 17	CDH1	EPD	19 17 25.81							60.3	22	92	9.78	10.17	-0.39	
. 17	CDH5	EP	19 17 26.00					26	2.2	60.3	22	92	9.97	10.17	-0.20	
. 17	LOP	EP 4	19 17 27.39					18	1.9	65.9	33	92	11.36	11.09	0.27	
. 17	SSP	EPD	19 17 28.00					18	1.9	70.5	27	92	11.97	11.83	0.14	
. 17	MCA	EP 4	19 17 27.49					11	1.5	71.4	297	92	11.46	11.97	-0.51	
. 17	SPRG	EPD4	19 17 29.61					15	1.8	77.8	61	92	13.58	13.02	0.56	
. 17	SGV	EP	19 17 29.69					13	1.6	80.6	329	92	13.66	13.47	0.18	
. 17	NMN	EP 4	19 17 31.35					12	1.6	83.3	345	92	15.32	13.91	1.40	
. 17	GVN	EPD	19 17 32.55					14	1.8	99.4	316	91	16.52	16.53	-0.01	

MAR H = 12 56 49.51 UTC RMS = 0.13 NO = 8 FREE DEPTH SOLUTION  
 . 18 LAT = 37.775 N ERX = 1.1 ERH = 1.6 AVFM = 2.2 Q = D  
 . LONG = 116.998 W ERY = 1.2 GAP = 292 AVXM = QS = C STINKING SPRING  
 . DEPTH = 1.80 KM ERZ = 175.0 NM = QD = D

. 18	BMT	IPU4	12 57 0.09					23	2.1	68.3	143	90	10.58	11.46	-1.28	
. 18	ISD		12 57 10.12										20.61	20.75	-0.14	
. 18	NMN	IPU	12 57 2.59					20	2.0	78.7	168	90	13.08	13.15	-0.07	
. 18	SGV	EP	12 57 4.30					22	2.1	88.2	182	90	14.79	14.69	0.10	
. 18	GVN	EPD4	12 57 5.09					20	2.1	91.1	200	90	15.58	15.17	0.41	
. 18	BGB	EP	12 57 7.21							106.5	140	90	17.70	17.67	0.07	
. 18	CDH1	IPU	12 57 9.09					32	2.6	118.1	149	90	19.58	19.55	0.02	
. 18	ESD4		12 57 25.14										35.63	34.22	1.41	
. 18	CDH5	IPU	12 57 9.10					27	2.4	118.1	149	90	19.59	19.55	0.03	
. 18	ESI		12 57 24.60										35.09	34.22	0.87	
. 18	GMR	EPD	12 57 9.19					19	2.1	118.9	114	90	19.68	19.69	-0.01	

MAR H = 4 24 52.94 UTC RMS = 0.03 NO = 5 FREE DEPTH SOLUTION  
 . 19 LAT = 37.374 N ERX = 0.4 ERH = 0.6 AVFM = 1.3 Q = C  
 . LONG = 117.586 W ERY = 0.5 GAP = 129 AVXM = QS = A MAGRUDER MOUNTAIN  
 . DEPTH = 21.56 KM ERZ = 0.6 NM = QD = D

. 19	MGM	IPU	4 24 57.08							10.9	47	152	4.14	4.11	0.03	
. 19	ISU4		4 24 59.62										6.68	7.19	-0.51	
. 19	LCH	IPD4	4 24 55.24					13	1.4	16.4	199	142	2.30	4.60	-2.31	
. 19	PPK	EP	4 24 59.05					6	0.8	29.0	281	125	6.11	6.10	0.01	VERY E
. 19	ISU4		4 24 3.00										-49.44	10.67	-60.62	
. 19	GMN	EPD	4 24 59.10							30.1	106	124	6.16	6.25	-0.09	
. 19	ISD4		4 24 3.63										-49.31	10.94	-60.25	
. 19	GVN	EP	4 25 1.54					7	1.0	46.7	152	114	8.64	8.62	0.01	VERY E
. 19	BMT	EPD	4 25 8.35					18	2.0	93.9	96	53	15.41	15.00	0.00	

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.....															
. MAR H = 3 5 53.94 UTC RMS = 0.05 NO = 5 FREE DEPTH SOLUTION															
. 22 LAT = 37.284 N ERX = 0.3 ERH = 0.4 AVFM = 0.9 Q = C															
. LONG = 117.556 W ERY = 0.2 GAP = 210 AVXM = QS = A MAGRUDER MOUNTAIN															
. DPTH = 6.29 KM ERZ = 1.6 NM = QD = D															
.....															
22	LCH	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	
22		ISD4	3 5 0.80									-53.14	5.98	-59.11	
22	GMN	EPD	3 5 58.62				5	0.6	26.4	86	100	4.68	4.71	-0.02	
22		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	
22		ES	3 6 4.99									11.05	11.13	-0.08	
22	NMN	EPD	3 6 5.62						69.3	109	94	11.68	11.65	0.04	
.....															
. MAR H = 22 48 44.44 UTC RMS = 0.04 NO = 6 FREE DEPTH SOLUTION															
. 25 LAT = 37.600 N ERX = 0.2 ERH = 0.3 AVFM = 1.8 Q = D															
. LONG = 117.643 W ERY = 0.3 GAP = 194 AVXM = QS = C SILVER PEAK															
. DPTH = 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	EPD	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	LCH	IPU4	22 48 51.16				17	1.7	40.6	180	90	6.72	6.95	-0.23	
25	GMN	EPD	22 48 52.52				7	1.0	47.5	134	90	8.08	8.08	-0.00	
25	GVN	EPD	22 48 56.49				23	2.1	71.6	158	90	12.05	11.99	0.06	
25	SGV	EPD	22 48 59.08				22	2.1	87.5	142	90	14.64	14.58	0.06	
25	NMN	EPD4	22 49 0.19				26	2.3	93.1	128	90	15.75	15.50	0.25	
.....															
. MAR H = 3 13 7.09 UTC RMS = 0.13 NO = 5 FIXED DEPTH SOLUTION															
. 26 LAT = 36.859 N ERX = 0.5 ERH = 0.7 AVFM = Q = C DEPTH CONTROL INADEQUATE															
. LONG = 116.169 W ERY = 0.4 GAP = 114 AVXM = QS = A LATHRUP WELLS															
. DPTH = 5.00 KM ERZ = 1.1 NM = QD = D															
.....															
26	LOP	IPD	3 13 8.36						0.6	165	172	1.27	0.99	0.28	
26		ISD4	3 13 10.00									2.91	1.73	1.18	
26	SSP	EPD	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	
26		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	
26		ISU	3 13 12.35									5.26	5.32	-0.06	
.....															
. MAR H = 5 15 43.73 UTC RMS = 0.11 NO = 5 FREE DEPTH SOLUTION															
. 26 LAT = 37.174 N ERX = 0.8 ERH = 1.6 AVFM = 1.3 Q = C															
. LONG = 117.612 W ERY = 1.4 GAP = 188 AVXM = QS = B MAGRUDER MOUNTAIN															
. DPTH = 11.11 KM ERZ = 2.6 NM = QD = D															
.....															
26	LCH	IPU	5 15 46.09				12	1.3	7.4	335	144	2.36	2.36	-0.00	
26	GVN	EPD	5 15 49.55				10	1.2	30.7	129	108	5.82	5.58	0.25	
26	GMN	EPD4	5 15 48.45						34.2	66	106	4.72	6.13	-1.41	
26		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	SGV	EPD	5 15 53.13						55.8	113	100	9.40	9.55	-0.15	
26	NMN	IPD4	5 15 55.20						71.3	98	98	11.47	12.05	-0.58	
26	BMT	EPD4	5 15 57.45						96.5	83	96	13.72	16.12	-2.79	
.....															
. MAR H = 20 1 7.02 UTC RMS = 0.01 NO = 5 FREE DEPTH SOLUTION															
. 27 LAT = 37.117 N ERX = 0.1 ERH = 0.2 AVFM = 1.0 Q = C															
. LONG = 117.364 W ERY = 0.2 GAP = 126 AVXM = QS = A MT. JACKSON															
. DPTH = 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	
27		ISU	20 1 11.60									4.58	4.58	0.00	
27	GMN	EPD	20 1 11.10						22.3	24	103	4.08	4.08	0.01	
27	LCH	EP	20 1 12.05						28.4	297	100	5.03	5.03	-0.00	VERY E
27	SGV	IPD	20 1 12.84				7	0.9	33.1	117	99	5.82	5.80	0.02	
27		ESU	20 1 17.14									10.12	10.15	-0.03	
.....															
. MAR H = 2 8 43.78 UTC RMS = 0.03 NO = 9 FREE DEPTH SOLUTION															
. 28 LAT = 36.324 N ERX = 0.1 ERH = 0.2 AVFM = 2.0 Q = B															

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LONG = 116.375 W    ERY = 0.1    GAP = 103    AVXM =    QS = A    ASH MEADOWS DEPTH = 6.06 KM    ERZ = 1.0    NM =    QD = B															
28	AMR	IPU	2 8 46.23					29 2.1	12.0	313	112	2.45	2.45	0.00	
28	JON	IPD	2 8 48.71					25 2.0	27.6	62	99	4.93	4.89	0.04	
28	NOP	IPU	2 8 49.00					11 1.3	29.6	137	99	5.22	5.22	0.01	
28	GWV	IPU	2 8 49.24					29 2.2	30.6	240	98	5.46	5.38	0.02	
28	LSM	EPU	2 8 51.85						46.9	11	95	8.07	8.02	0.05	
28	MCX	IPU4	2 8 52.72					27 2.2	50.4	43	95	8.94	8.58	0.36	
28	LOP	EPD	2 8 54.15						61.7	18	94	10.37	10.41	-0.03	
28	SPRG	IPD	2 8 54.70					24 2.1	65.2	51	94	10.92	10.98	-0.06	
28	CPX	EPU	2 8 55.95					22 2.1	72.8	23	93	12.17	12.22	-0.05	
28	GVN	EPD	2 9 2.85					23 2.3	114.5	311	92	19.07	19.00	0.08	
MAR H = 21 3 36.82 UTC    RMS = 0.01    NO = 6    FREE DEPTH SOLUTION 28 LAT = 36.706 N    ERX = 0.1    ERH = 0.1    AVFM = 1.2    Q = B LONG = 116.273 W    ERY = 0.1    GAP = 126    AVXM =    QS = A    LATHROP WELLS DEPTH = 7.14 KM    ERZ = 0.3    NM =    QD = B															
28	LSM	IP	21 3 38.30						3.6	1	150	1.48	1.49	-0.01	
28	SDH	IPD	21 3 38.91					5 0.6	8.9	221	124	2.09	2.08	0.00	
28	CDH5	IPU	21 3 40.15					18 1.7	17.6	347	108	3.33	3.35	-0.02	
28	CDH1	IPU	21 3 40.19						17.6	347	108	3.37	3.35	0.02	
28	LOP	EPU	21 3 40.39					10 1.2	18.9	30	107	3.57	3.56	0.01	VERY E
28	JON	EPU	21 3 42.65						33.2	153	100	5.83	5.83	-0.00	
MAR H = 13 3 56.96 UTC    RMS = 0.05    NO = 7    FREE DEPTH SOLUTION 31 LAT = 36.863 N    ERX = 0.3    ERH = 0.5    AVFM = 1.7    Q = B LONG = 116.178 W    ERY = 0.4    GAP = 147    AVXM =    QS = A    LATHROP WELLS DEPTH = 8.35 KM    ERZ = 0.8    NM =    QD = C															
31	LOP	IPD	13 3 58.54					24 1.9	1.4	135	170	1.58	1.55	0.03	
31	SSP	IPD	13 3 59.03						7.7	333	134	2.07	2.06	0.01	
31	CDH1	IPU	13 3 59.60					35 2.3	12.4	269	120	2.64	2.66	-0.02	
31	CDH5	EPU4	13 3 59.49					8 1.0	12.4	269	120	2.53	2.66	-0.13	
31	CPX	IPU4	13 3 59.40						13.0	56	119	2.44	2.74	-0.30	
31	LSM	IP	13 4 0.15						16.1	211	114	3.19	3.20	-0.01	VERY E
31	BGB	IPU4	13 4 0.55						19.9	347	110	3.59	3.77	-0.13	
31	SDH	EPD4	13 4 1.89					10 1.2	28.0	211	104	4.93	5.04	-0.11	
31	MCX	EPD	13 4 2.15					20 1.8	28.4	144	104	5.19	5.10	0.09	
31	SPRG	IPU	13 4 3.47					13 1.5	37.9	120	100	6.51	6.61	-0.10	
31	GLR	IPU4	13 4 0.55					17 1.7	40.0	21	100	3.59	6.94	-3.20	
31	JON	EPU	13 4 5.17					11 1.4	47.5	172	98	8.21	8.15	0.06	
31	GVN	EP 4	13 4 14.92					19 2.1	104.9	278	94	17.96	17.44	0.52	VERY E
31	GMN	EP 4	13 4 15.25						107.7	297	94	18.29	17.89	0.40	VERY E
APR H = 14 15 12.07 UTC    RMS = 0.06    NO = 4    FREE DEPTH SOLUTION 02 LAT = 36.862 N    ERX =    ERH =    AVFM = 0.8    Q = C LONG = 116.319 W    ERY =    GAP = 291    AVXM =    QS = A    LATHROP WELLS DEPTH = 33.98 KM    ERZ =    NM =    QD = D															
02	CDH5	EP	14 15 17.50					4 0.3	0.2	141	180	5.43	5.37	0.06	
02	CDH1	IPU	14 15 17.55					9 1.0	0.2	141	180	5.48	5.37	0.11	
02	SSP	EP 4	14 15 18.58					4 0.4	11.4	52	158	6.51	5.65	0.86	
02	LOP	EP	14 15 17.79						13.5	94	154	5.72	5.77	-0.05	
02	LSM	IPD	14 15 17.85					13 1.4	14.3	163	153	5.78	5.81	-0.03	
APR H = 17 56 29.83 UTC    RMS = 0.14    NO = 7    FREE DEPTH SOLUTION 02 LAT = 36.897 N    ERX = 1.0    ERH = 1.2    AVFM = 1.5    Q = C LONG = 115.999 W    ERY = 0.7    GAP = 150    AVXM =    QS = C    MERCURY DEPTH = 8.90 KM    ERZ = 6.3    NM =    QD = C															
02	LOP	IPU	17 56 33.00					15 1.5	15.8	253	116	3.17	3.19	-0.02	
02	SSP	EPD	17 56 33.61					12 1.4	19.8	279	111	3.78	3.80	-0.01	
02	BGB	EPU	17 56 34.39					10 1.2	25.7	308	106	4.56	4.70	-0.14	
02	MCY	IPU	17 56 34.55					14 1.5	26.3	173	106	4.72	4.79	-0.07	
02	CDH5	EPU2	17 56 35.30					23 2.0	28.7	262	105	5.47	5.17	0.30	
02	LSM	IPU2	17 56 35.60						30.0	234	104	5.77	5.37	0.40	
02	SDH	EP 4	17 56 37.59						41.2	227	100	7.76	7.15	0.61	VERY E
02	GMR	EPU	17 56 38.81						52.6	23	98	8.98	8.98	0.00	
APR H = 18 13 5.50 UTC    RMS = 0.14    NO = 7    FREE DEPTH SOLUTION															

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	IOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
02 LAT = 36.832 N ERX = 2.2 ERH = 3.0 AVFM = 1.5 Q = D LONG = 115.993 W ERY = 1.9 GAP = 214 AVXM = US = C MERCURY DEPTH = 9.57 KM ENZ = 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	CDH1	IPU	18 13 10.89						29.1	276	106	5.39	5.26	0.13	
02	CDH5	EPD	18 13 10.90					16 1.6	29.1	276	106	5.40	5.26	0.14	
02	BGB	EP	18 13 10.70						31.0	318	105	5.20	5.56	-0.35	
APR H = 18 20 41.43 UTC RMS = 0.27 NO = 44 FREE DEPTH SOLUTION 02 LAT = 36.855 N ERX = 0.4 ERH = 0.5 AVFM = 3.4 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	LCP	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					140 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	24.6	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	CDH5	IPU	18 20 46.89					116 3.4	32.2	271	38	5.46	5.75	-0.29	
02	CDH1	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	6.80	-0.29	
02	SDH	IPD	18 20 48.50					81 3.1	41.2	236	38	7.07	7.22	-0.15	
02	JON	IPD	18 20 49.85					77 3.1	47.9	196	38	8.42	8.30	0.11	
02	EPN	IPD	18 20 50.10						51.6	321	38	8.67	8.91	-0.24	
02	GMR	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	APK	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	70.0	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	NMN	IPU	18 20 55.10					107 3.5	80.7	288	38	13.67	13.64	0.03	
02	SHRG	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	13.94	0.04	
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	GMV	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	124.6	278	38	20.97	20.78	0.19	
02	GMN	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	QSM	IPD0	18 21 3.35						128.1	220	38	21.92	21.36	0.56	
02	WRN	IPU	18 21 3.01					107 3.6	129.3	15	38	21.58	21.54	0.04	
02	TVO	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	
02	ESU	18 21 18.80										37.37	38.18	-0.81	
02	SRG	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	LCH	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 H = 21 14 53.76 UTC RMS = 0.08 NO = 14 FREE DEPTH SOLUTION 02 LAT = 36.868 N ERX = 0.3 ERH = 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	IPU4	21 14 57.30					44 2.5	22.9	178	102	3.54	4.15	-0.61	
02	SPRG	IPU4	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	CDH5	IPU4	21 14 58.96					52 2.7	30.9	268	98	5.20	5.44	-0.24	
02	GLR	IPU	21 15 0.10					16 1.7	37.0	353	97	6.34	6.41	-0.07	
02	JCN	IPU4	21 15 1.70					21 1.9	49.0	194	95	8.14	8.35	-0.21	
02	EPN	IPU4	21 15 2.59						49.6	321	95	8.83	8.46	0.38	
02	GMR	IPD	21 15 3.20					22 2.0	54.6	19	95	9.44	9.27	0.17	
02	BRO	EPD4	21 15 4.40					18 1.8	59.6	259	94	10.64	10.07	0.57	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TORS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 02	BLT	IPU	21 15 5.04					21 2.0	67.4	348	94	11.28	11.34	-0.06	
. 02	BMT	IP 4	21 14 59.71					51 2.8	68.1	313	94	5.95	11.44	-5.49	VERY E
. 02	AMR	EPU	21 15 5.30					17 1.8	69.0	221	94	11.54	11.59	-0.05	
. 02	APK	EP	21 15 5.59						70.4	150	94	11.83	11.83	0.00	VERY E
. 02	FMT	EP 4	21 15 7.10					19 2.0	76.5	251	93	13.34	12.81	0.53	
. 02	LPR	EP	21 15 6.75					33 2.4	77.3	64	93	12.99	12.95	0.04	VERY E
. 02	NMN	EP 4	21 15 6.00					32 2.4	79.1	287	93	12.24	13.23	-0.99	VERY E
. 02	SHRG	EP	21 15 7.68					14 1.7	83.3	119	93	13.92	13.92	0.01	VERY E
. 02	NOP	FPU	21 15 7.65						83.7	191	93	13.89	13.99	-0.10	
. 02	TPU	EPU	21 15 8.17					24 2.2	86.6	19	93	14.41	14.46	-0.05	
. 02	GVV	EPU4	21 15 10.55					22 2.2	98.3	220	93	16.79	16.35	0.44	
. 02	PRN	EPU4	21 15 10.95					26 2.3	101.4	54	93	17.19	16.85	0.34	
. 02	MTI	EP	21 15 11.90					23 2.2	109.0	35	92	18.14	18.09	0.05	
. 02	GVN	EPU4	21 15 15.20					30 2.5	123.2	277	53	21.44	20.32	1.12	
. 02	GMN	EPD4	21 15 15.21					18 2.1	124.2	293	53	21.45	20.46	0.99	
. 02	TMO	EPD4	21 15 15.90					20 2.2	128.5	267	53	22.14	21.01	1.13	
. 02	QSM	EPU4	21 15 15.46						128.5	219	53	21.70	21.01	0.69	
. 02	MGM	EPU4	21 15 19.59					24 2.4	149.7	295	53	25.83	23.76	2.07	

APR H = 2 18 9.70 UTC RMS = 0.05 NO = 9 FREE DEPTH SOLUTION  
. 03 LAT = 36.897 N ERX = 0.4 ERH = 0.5 AVFM = 1.6 Q = C  
LONG = 115.995 W ERY = 0.2 GAP = 177 AVXM = QS = B MERCURY  
DEPTH = 9.11 KM ERZ = 2.9 NM = QD = C

. 03	LOP	IPD	2 18 13.00					21 1.8	16.1	253	116	3.30	3.26	0.04	
. 03	SSP	EPU	2 18 13.59					22 1.9	20.2	279	111	3.89	3.86	0.03	
. 03	BGB	IPU	2 18 14.32					13 1.4	26.0	307	107	4.62	4.75	-0.13	
. 03	MCY	IPU	2 18 14.50					18 1.7	26.3	174	106	4.80	4.80	-0.01	
. 03	CDH5	EP	2 18 14.89					31 2.2	29.1	262	105	5.19	5.24	-0.05	
. 03	CDH1	EPU	2 18 14.91						29.1	262	105	5.21	5.24	-0.03	
. 03	LSM	EP	2 18 15.49						30.3	235	104	5.79	5.44	0.35	VERY E
. 03	GLR	EP	2 18 15.66				5 0.6		33.6	356	103	5.96	5.95	0.01	
. 03	EPN	EPU	2 18 17.68						45.7	320	99	7.98	7.89	0.09	VERY E

APR H = 6 40 43.78 UTC RMS = 0.04 NO = 6 FREE DEPTH SOLUTION  
. 03 LAT = 36.841 N ERX = 0.4 ERH = 0.6 AVFM = 1.7 Q = C  
LONG = 115.970 W ERY = 0.5 GAP = 160 AVXM = QS = B MERCURY  
DEPTH = 11.18 KM ERZ = 2.9 NM = QD = C

. 03	LOP	IPU	6 40 47.37					26 2.0	17.7	275	120	3.59	3.64	-0.05	
. 03	MCY	IPU	6 40 47.75					23 1.9	19.9	178	117	3.97	3.96	0.01	
. 03	SSP	EPU	6 40 48.40					25 2.0	24.0	293	113	4.62	4.57	0.05	
. 03	LSM	EP 4	6 40 49.62					13 1.5	29.3	247	109	5.84	5.36	0.48	
. 03	CDH5	IPU	6 40 49.35					25 2.0	31.1	274	108	5.57	5.64	-0.07	
. 03	CDH1	IPD	6 40 49.40						31.1	274	108	5.62	5.64	-0.02	
. 03	BGB	IPU4	6 40 49.30					13 1.5	31.7	313	107	5.52	5.74	-0.22	
. 03	SDH	EP 4	6 40 51.25					12 1.4	39.5	237	104	7.47	6.96	0.52	
. 03	GLR	EP 4	6 40 51.10						40.0	354	104	7.32	7.04	0.28	
. 03	JON	IPU4	6 40 52.39					12 1.4	46.1	195	102	8.61	8.01	0.60	
. 03	GMR	IPD	6 40 53.59					9 1.2	57.4	18	100	9.81	9.82	-0.01	

APR H = 15 22 35.79 UTC RMS = 0.06 NO = 9 FREE DEPTH SOLUTION  
. 03 LAT = 36.857 N ERX = 0.3 ERH = 0.4 AVFM = 1.7 Q = B  
LONG = 115.961 W ERY = 0.2 GAP = 125 AVXM = QS = A  
DEPTH = 8.50 KM ERZ = 1.2 NM = QD = B MERCURY

. 03	CPX	IPU	15 22 38.28					20 1.8	11.7	313	122	2.49	2.59	-0.09	
. 03	LOP	EPU	15 22 39.40					19 1.8	18.4	269	112	3.61	3.55	0.06	
. 03	MCY	EPD	15 22 39.81					20 1.8	21.7	180	108	4.02	4.06	-0.04	
. 03	SPRG	IPD	15 22 40.00					20 1.8	22.6	143	108	4.21	4.20	0.01	
. 03	BGB	IPU	15 22 41.31					11 1.3	31.1	310	103	5.52	5.53	-0.00	
. 03	CDH5	IPU	15 22 41.36					23 2.0	31.7	271	103	5.57	5.64	-0.06	
. 03	CDH1	IPD	15 22 41.45					34 2.3	31.7	271	103	5.66	5.64	0.03	
. 03	GLR	EP	15 22 42.56						38.3	352	100	6.77	6.68	0.09	
. 03	SDH	FPU4	15 22 43.25						41.0	235	100	7.46	7.12	0.35	
. 03	JON	EPU4	15 22 44.42				9 1.2		48.0	195	98	8.63	8.24	0.39	
. 03	GMR	EPD2	15 22 45.60						55.5	18	97	9.81	9.45	0.36	
. 03	BMT	IP 4	15 22 49.80						69.5	313	96	14.01	11.70	2.31	
. 03	NMN	EP 4	15 22 50.70						80.2	288	95	14.91	13.44	1.47	

APR H = 17 15 13.42 UTC RMS = 0.17 NO = 12 FREE DEPTH SOLUTION  
. 03 LAT = 36.855 N ERX = 0.5 ERH = 0.7 AVFM = 1.8 Q = C  
LONG = 115.970 W ERY = 0.5 GAP = 100 AVXM = QS = B  
DEPTH = 5.47 KM ERZ = 4.5 NM = QD = C MERCURY

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TDBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
03	CPX	IPU	17 15 15.60				25	2.0	11.3	316	110	2.18	2.31	-0.13	
03	LCP	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	SPRG	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	CDH5	IPD	17 15 18.80				34	2.3	31.0	271	97	5.38	5.43	-0.05	
03	CDH1	IPU	17 15 18.79				38	2.4	31.0	271	97	5.37	5.43	-0.06	
03	GLR	EP 0	17 15 20.00						38.4	354	96	6.58	6.63	-0.05	
03	SDH	EP	17 15 20.50						40.3	235	96	7.08	6.93	0.15	
03	JON	IPU4	17 15 21.71				12	1.5	47.6	194	95	8.29	8.12	0.17	
03	GMR	IPU	17 15 23.00				7	1.0	56.0	18	94	9.58	9.47	0.10	
03	EPR	EP 2	17 15 27.55						77.9	64	93	14.13	13.04	1.09	
03	SHRG	EP	17 15 27.70						82.6	118	93	14.28	13.80	0.48	
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APR H = 23 47 9.66 UTC RMS = 0.02 NO = 6 FREE DEPTH SOLUTION															
03 LAT = 37.040 N ERX = 0.3 ERH = 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 = 0.4 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	LCP	EPU	23 47 13.43				33	2.2	20.7	175	103	3.77	3.79	-0.02	
03	EPN	EPD	23 47 13.79						22.8	328	101	4.13	4.14	-0.00	
03	CDH5	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 H = 18 0 48.84 UTC RMS = 0.29 NO = 8 FREE DEPTH SOLUTION															
04 LAT = 36.939 N ERX = 2.2 ERH = 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	SPRG	IPU2	18 0 55.50						33.0	215	118	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	EPR	IPU0	18 0 57.02						44.7	55	112	8.18	8.16	0.02	
04	LCP	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	CDH5	IPU0	18 0 59.56				17	1.8	64.6	262	105	10.72	11.24	-0.52	
04	JON	EP	18 1 1.32						71.4	219	104	12.48	12.30	0.18	VERY E
04	SDH	EP 0	18 1 1.30						73.5	244	53	12.46	12.61	-0.16	VERY E
.....															
APR H = 2 27 44.95 UTC RMS = 0.05 NO = 7 FREE DEPTH SOLUTION															
05 LAT = 36.846 N ERX = 0.3 ERH = 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 = 4.4 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	SPRG	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	CDH5	IPU4	2 27 50.31						33.4	273	102	5.36	5.90	-0.53	
05	CDH1	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	SDH	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	198	99	7.30	8.13	-0.82	
05	EPN	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	BRO	EPU4	2 27 55.60				17	1.8	61.6	261	97	10.65	10.43	0.23	
05	AMR	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	11.85	-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	SHRG	EP 4	2 27 59.00				15	1.8	80.0	118	95	14.05	13.41	0.64	
05	NOP	EPU4	2 27 59.00						81.9	193	95	14.05	13.71	0.34	
05	NMN	EPU	2 27 58.70				30	2.4	82.1	288	95	13.75	13.75	0.01	
05	PRN	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	GVN	EPD4	2 28 6.20				30	2.5	125.9	278	53	21.25	20.43	0.83	
05	GMN	FFU4	2 28 6.48						127.4	273	53	21.53	20.62	0.91	
05	QSM	EPU4	2 28 6.90						128.2	220	53	21.95	20.73	1.23	
05	TWO	EPD4	2 28 7.10				20	2.2	130.8	268	53	22.15	21.06	1.09	
05	LCH	EPD4	2 28 11.10						157.7	286	53	26.15	24.55	1.60	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TUOS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
05	MZP	EPU4	2 28 12.00						159.0	307	53	27.05	24.73	2.33	
.....															
APR H = 2 29 6.43 UTC RMS = 0.11 NO = 5 FREE DEPTH SOLUTION															
05	LAT =	36.854 N	ERX =	0.2	ERH =	0.4	AVFM =	1.4	Q =	D					
	LONG =	115.961 W	ERY =	0.3	GAP =	189	AVXM =		QS =	C			MERCURY		
	DEPTH =	3.04 KM	ERZ =	5.6	NM =				QD =	D					
.....															
05	CPX	IPU	2 29 8.60					15	1.5	12.0	314	97	2.17	2.32	-0.14
05	LCP	IPU0	2 29 9.81					19	1.8	18.4	270	94	3.38	3.35	0.03
05	MCY	EPD0	2 29 10.23					16	1.6	21.4	180	94	3.80	3.83	-0.03
05	SPRG	EPU	2 29 10.40					14	1.5	22.3	143	94	3.97	3.99	-0.02
05	LSM	EP 4	2 29 12.29					10	1.2	30.5	245	93	5.86	5.32	0.54
05	SDH	EP	2 29 13.69					7	1.0	40.9	236	92	7.26	7.00	0.26
.....															
APR H = 17 29 58.94 UTC RMS = 0.02 NO = 5 FREE DEPTH SOLUTION															
05	LAT =	36.818 N	ERX =	0.3	ERH =	0.5	AVFM =	1.0	Q =	C					
	LONG =	115.912 W	ERY =	0.4	GAP =	193	AVXM =		QS =	A			MERCURY		
	DEPTH =	13.08 KM	ERZ =	1.1	NM =				QD =	D					
.....															
05	SPRG	EPD	17 30 2.59					5	0.6	16.5	146	126	3.65	3.65	0.00
05	CPX	IPU	17 30 2.79							18.0	313	124	3.85	3.84	0.01
05	CDH5	EPU	17 30 5.49					7	0.9	36.5	277	108	6.55	6.58	-0.03
	ISD	17 30 10.45											11.51	11.52	-0.01
05	CDH1	IPD	17 30 5.56					11	1.3	36.5	277	108	6.62	6.58	0.04
.....															
APR H = 1 35 20.86 UTC RMS = 0.23 NO = 11 FREE DEPTH SOLUTION															
08	LAT =	36.555 N	ERX =	0.8	ERH =	1.2	AVFM =	1.6	Q =	C					
	LONG =	116.355 W	ERY =	0.8	GAP =	92	AVXM =		QS =	C			LATHROP WELLS		
	DEPTH =	5.38 KM	ERZ =	5.9	NM =				QD =	B					
.....															
08	SDH	IPU	1 35 22.71					13	1.4	10.1	9	112	1.85	2.12	-0.28
08	AMR	EPU	1 35 25.00					20	1.8	20.5	211	101	4.14	3.74	0.40
08	JON	IPU	1 35 25.12					10	1.2	26.0	120	98	4.26	4.62	-0.36
08	BRO	EPD	1 35 26.45							33.4	314	97	5.59	5.81	-0.23
08	CDH1	IPD	1 35 26.88					19	1.8	34.0	6	96	6.02	5.92	0.10
08	CDH5	EPU	1 35 26.92					21	1.9	34.0	6	96	6.06	5.92	0.14
08	MCY	IPD	1 35 27.16					14	1.6	37.1	71	96	6.30	6.41	-0.12
08	LCP	EPD	1 35 27.49					11	1.3	37.2	27	96	6.63	6.43	0.20
08	FMT	EPD	1 35 27.45							39.1	284	96	6.59	6.73	-0.15
08	SSP	EPU	1 35 28.40					15	1.6	42.8	17	95	7.54	7.34	0.19
08	CPX	EPD	1 35 29.38							49.2	33	94	8.52	8.38	0.14
.....															
APR H = 2 11 31.66 UTC RMS = 0.18 NO = 16 FREE DEPTH SOLUTION															
08	LAT =	36.852 N	ERX =	0.5	ERH =	0.6	AVFM =	1.9	Q =	C					
	LONG =	115.947 W	ERY =	0.4	GAP =	127	AVXM =		QS =	B			MERCURY		
	DEPTH =	0.02 KM	ERZ =	1.9	NM =				QD =	C					
.....															
08	CPX	IPU0	2 11 34.21					23	1.9	13.1	311	38	2.55	2.83	-0.27
08	LCP	IPU0	2 11 35.30					29	2.1	19.6	271	38	3.64	3.89	-0.25
08	MCY	IPU0	2 11 35.55					27	2.1	21.1	184	38	3.89	4.14	-0.24
08	SPRG	IPU	2 11 35.80					20	1.8	21.4	145	38	4.14	4.18	-0.03
08	SSP	IPD0	2 11 36.39					26	2.0	25.5	289	38	4.73	4.85	-0.12
08	LSM	EP	2 11 37.48							31.6	247	38	5.82	5.83	-0.01
08	BGB	IPU4	2 11 37.27							32.4	310	38	5.61	5.97	-0.36
08	CDH1	EPD	2 11 37.32					41	2.5	33.0	272	38	5.66	6.07	-0.41
08	CDH5	EPU4	2 11 37.12					34	2.3	33.0	272	38	5.46	6.07	-0.61
08	GLR	EPU4	2 11 38.48							39.1	351	38	6.82	7.05	-0.23
08	SDH	EPU	2 11 39.20					12	1.4	41.8	237	38	7.54	7.49	0.05
08	JON	IPU	2 11 40.34					13	1.5	47.8	197	38	8.68	8.47	0.21
08	EPN	EPD	2 11 41.00							52.4	320	38	9.34	9.21	0.13
08	GWR	IPD	2 11 41.59							55.7	16	38	9.93	9.76	0.17
08	BRO	EPU4	2 11 42.73							61.3	261	38	11.07	10.67	0.40
08	BLT	EP	2 11 43.45							69.7	346	38	11.79	12.03	-0.23
	ES	2 11 51.54											19.88	21.05	-1.16
08	BMT	EP 4	2 11 45.10					14	1.7	70.8	313	38	13.44	12.21	1.23
08	NMN	EPD0	2 11 45.90					20	2.0	81.6	288	38	14.24	13.97	0.28
.....															
08	TPU	EPU	2 11 46.60							87.7	18	38	14.94	14.95	-0.01
08	GWV	EP	2 11 48.75							98.2	221	38	17.09	16.67	0.42
	ES	2 12 1.10											29.44	29.18	0.26
08	CTS	EP 4	2 11 51.15							111.5	322	38	19.49	18.83	0.67
	ES 4	2 12 2.50											30.84	32.95	-2.10
.....															

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	T0BS (SEC)	TCAL (SEC)	RLS (SEC)	REMARKS
APR H = 7 39 21.84 UTC RMS = 0.04 NO = 5 FREE DEPTH SOLUTION															
10	LAT =	37.285 N	ERX =	0.6	LRH =	0.9	AVFM =	1.2	Q = D						
	LONG =	117.054 W	ERY =	0.7	GAP =	202	AVXM =		QS = C	MT. JACKSON					
	DEPTH =	6.29 KM	ERZ =	5.0	NM =				QD = D						
10	GMN	IPU	7 39 25.19				5	0.6	17.8	275	105	3.35	3.35	-0.01	
10	NMN	IPU0	7 39 27.28				6	0.8	31.2	137	99	5.44	5.48	-0.04	
10	SGV	EPD	7 39 27.81				11	1.3	33.8	176	98	5.97	5.90	0.06	
10	GVN	EPD0	7 39 28.75				7	1.0	40.3	219	97	6.91	6.95	-0.04	
10	MGM	EP	7 39 29.15				6	0.8	42.4	294	96	7.31	7.29	0.02	
10	BMT	EP 4	7 39 28.60				18	1.8	46.6	90	96	6.76	7.97	-1.22	
10	CDH5	EPD4	7 39 35.55				22	2.1	81.1	126	93	13.71	13.56	0.15	
10	CDH1	IPD4	7 39 35.64						81.1	126	93	13.80	13.56	0.24	
APR H = 9 48 1.29 UTC RMS = 0.04 NO = 4 FIXED DEPTH SOLUTION															
11	LAT =	36.976 N	ERX =		ERH =		AVFM =	1.7	Q = C	DEPTH CONTROL INADEQUATE					
	LONG =	116.592 W	ERY =		GAP =	320	AVXM =		QS = A	CHLORIDE CLIFF					
	DEPTH =	5.00 KM	ERZ =		NM =				QD = D						
11	CDH5	IPU	9 48 6.11				13	1.5	27.7	118	97	4.82	4.88	-0.07	
11	CDH1	IPD	9 48 6.23				23	2.0	27.7	118	97	4.94	4.88	0.05	
11	BGB	EP	9 48 7.08						33.2	78	96	5.79	5.77	0.01	
	ESU		9 48 11.40									10.11	10.10	0.00	
APR H = 13 54 23.50 UTC RMS = 0.31 NO = 15 FREE DEPTH SOLUTION															
14	LAT =	37.184 N	ERX =	1.1	ERH =	1.3	AVFM =	2.0	Q = C	SILENT CANYON - PAHUTE MESA					
	LONG =	116.289 W	ERY =	0.7	GAP =	118	AVXM =		QS = C						
	DEPTH =	12.54 KM	ERZ =	5.5	NM =				QD = B						
14	BGB	IPU	13 54 26.89						17.1	161	124	3.39	3.67	-0.28	
14	BMT	IPU	13 54 28.78				27	2.1	24.4	297	115	5.28	4.71	0.57	
14	SSP	IPU	13 54 29.00				24	2.0	29.4	168	111	5.50	5.46	0.05	
14	BLT	IPD	13 54 29.49				17	1.7	33.7	24	108	5.99	6.12	-0.13	
14	CPX	EPD	13 54 29.80				13	1.5	34.9	144	108	6.30	6.31	-0.01	
14	CDH1	IPD	13 54 29.64				57	2.8	36.0	184	107	6.14	6.47	-0.33	
14	CDH5	IPD	13 54 29.80				36	2.4	36.0	184	107	6.30	6.47	-0.17	
14	LCP	EPD	13 54 30.40				23	2.0	38.1	164	106	6.90	6.80	0.10	
14	NMN	IPD	13 54 31.49				23	2.0	48.4	256	103	7.99	8.42	-0.43	
14	LSM	EPD	13 54 32.59						49.4	178	103	9.09	8.57	0.52	
14	SDH	EPD	13 54 33.75				11	1.4	59.9	184	100	10.25	10.25	0.00	
14	CTS	IPU	13 54 34.10						63.7	323	100	10.60	10.87	-0.26	
14	MCY	EPD	13 54 34.99				19	1.9	64.8	153	100	11.49	11.04	0.45	
14	SPRG	EPD	13 54 35.66				18	1.9	69.1	142	99	12.16	11.73	0.43	
14	SGV	EPD	13 54 35.07				21	2.0	69.8	251	99	11.57	11.84	-0.27	
APR H = 16 55 4.66 UTC RMS = 0.05 NO = 6 FREE DEPTH SOLUTION															
14	LAT =	37.162 N	ERX =	0.5	ERH =	0.6	AVFM =	1.2	Q = C	MT. JACKSON					
	LONG =	117.420 W	ERY =	0.3	GAP =	189	AVXM =		QS = B						
	DEPTH =	4.90 KM	ERZ =	4.1	NM =				QD = D						
14	GVN	IPU	16 55 8.15				14	1.5	19.1	159	100	3.49	3.50	-0.02	
14	GMN	IPD	16 55 8.46				5	0.6	20.9	43	99	3.80	3.79	0.00	
14	LCH	EP 4	16 55 9.10				6	0.8	21.8	292	99	4.44	3.93	0.50	
14	MGM	EP	16 55 10.20				6	0.8	31.7	348	96	5.54	5.54	-0.00	
14	SGV	IPD2	16 55 11.57				10	1.3	39.9	120	95	6.91	6.85	0.05	
14	NMN	EPD	16 55 13.76				10	1.3	54.2	100	93	9.10	9.19	-0.09	
14	MCA	EPD4	16 55 20.50						58.4	168	93	15.84	9.86	5.98	
14	FMT	EPD4	16 55 22.30						81.4	135	92	17.64	13.60	4.04	
14	CDH1	EPD	16 55 21.98				27	2.4	103.7	109	92	17.32	17.22	0.09	
APR H = 10 24 43.67 UTC RMS = 0.05 NO = 5 FREE DEPTH SOLUTION															
15	LAT =	37.503 N	ERX =	0.5	ERH =	0.6	AVFM =	1.7	Q = D	SILVER PEAK					
	LONG =	117.709 W	ERY =	0.4	GAP =	97	AVXM =		QS = C						
	DEPTH =	6.96 KM	ERZ =	7.1	NM =				QD = D						
15	PPK	IPU	10 24 47.29				12	1.4	19.5	244	106	3.62	3.65	-0.03	
15	MGM	IPU	10 24 47.40				10	1.2	20.0	110	106	3.73	3.72	0.01	
15	SVP	IPD	10 24 48.19				18	1.7	24.9	341	103	4.52	4.49	0.03	
15	LCH	EPD	10 24 49.10				10	1.2	30.3	170	100	5.43	5.35	0.07	
15	M7P	EPD	10 24 49.89				6	0.8	36.1	53	99	6.22	6.29	-0.08	
15	NMN	EPD4	10 24 59.80						91.8	121	93	16.13	15.31	0.82	
15	BMT	EPD4	10 25 0.79				21	2.1	106.8	103	93	17.12	17.75	-0.63	
15	KRN	IPD4	10 25 5.57				26	2.4	123.4	79	53	21.90	20.27	1.63	
15	BFO	EPD3	10 25 5.12						126.6	130	53	21.45	20.68	0.77	
15	EPH	IPD4	10 25 6.01						126.7	105	53	22.34	20.70	1.64	



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1980	STA	PHASE	TIME (UTC)		AMP (MU)	PFR (SEC)	XMAG	OUR	FMAG	DIST (KM)	A71 (DEG)	A1N (DEG)	T0BS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 15	CDH1	IPU4	10	25	7.77				51	2.6	142.6	120	53	24.10	22.76	1.34
. 15	CDH5	IPD4	10	25	8.06						142.6	120	53	24.39	22.76	1.63
. 15	LSM	EPD4	10	25	9.91						153.3	124	53	26.24	24.15	2.09
.....																
APR H = 12 42 51.95 UTC RMS = 0.04 NO = 3																
. 15	LAT =	36.533 N	ERX =			ERH =		AVFM =	2.3	Q = C						FIXED DEPTH SOLUTION
. 15	LONG =	115.888 W	ERY =			GAP =	307	AVXM =		QS = A						DEPTH CONTROL INADEQUATE
. 15	DEPTH =	5.00 KM	ERZ =			NM =				QD = D						MERCURY
.....																
. 15	CDH5	IPU	12	43	0.85			29	2.2	52.8	313	94	8.90	8.96	-0.06	
. 15	CDH1	IPD	12	43	0.96			36	2.4	52.8	313	94	9.01	8.96	0.05	
. 15	GMR	EPD	12	43	6.87					89.5	7	92	14.92	14.91	0.01	
.....																
APR H = 12 44 55.55 UTC RMS = 0.19 NO = 4																
. 15	LAT =	36.820 N	ERX =			ERH =		AVFM =	1.6	Q = C						FREE DEPTH SOLUTION
. 15	LONG =	115.945 W	ERY =			GAP =	250	AVXM =		QS = B						MERCURY
. 15	DEPTH =	9.95 KM	ERZ =			NM =				QD = D						
.....																
. 15	MCY	IPU	12	44	59.15			25	2.0	17.6	185	117	3.60	3.54	0.06	
. 15	LOP	IPU0	12	44	59.05			19	1.8	20.2	281	113	3.50	3.92	-0.43	
. 15	SSP	EP	12	45	0.75			22	1.9	27.1	296	108	5.20	4.96	0.24	
. 15	SDH	EP	12	45	2.50			10	1.3	40.1	241	102	6.95	7.02	-0.07	
. 15	JON	EPD4	12	45	3.60			10	1.3	44.5	199	101	8.05	7.71	0.33	
.....																
APR H = 21 30 2.10 UTC RMS = 0.10 NO = 8																
. 15	LAT =	36.905 N	ERX =	0.3		ERH =	0.5	AVFM =	1.6	Q = B						FREE DEPTH SOLUTION
. 15	LONG =	115.992 W	ERY =	0.3		GAP =	123	AVXM =		QS = A						MERCURY
. 15	DEPTH =	0.04 KM	ERZ =	0.7		NM =				QD = B						
.....																
. 15	CPX	IPU	21	30	3.60			20	1.8	6.5	294	90	1.50	1.70	-0.20	
. 15	LOP	IPU	21	30	5.47			21	1.8	16.6	250	38	3.37	3.39	-0.03	
. 15	SSP	EPD	21	30	6.23					20.3	276	38	4.13	3.99	0.13	
. 15	BGB	IPU	21	30	6.77					25.6	305	38	4.67	4.86	-0.19	
. 15	MCY	EPD4	21	30	4.80			18	1.7	27.1	174	38	2.70	5.11	-2.41	
. 15	SPRG	IPD	21	30	7.45			12	1.4	28.5	145	38	5.35	5.34	0.01	
. 15	CDH1	EP	21	30	7.57			29	2.2	29.4	260	38	5.47	5.48	-0.01	
. 15	CDH5	EP	21	30	7.60			23	2.0	29.4	260	38	5.50	5.48	0.02	
. 15	LSM	EP 4	21	30	8.20			10	1.2	31.0	234	38	6.10	5.74	0.36	VERY
. 15	SDH	EP 4	21	30	10.00			7	1.0	42.2	227	38	7.90	7.56	0.34	VERY
. 15	GMR	IPU	21	30	11.25					51.5	22	38	9.15	9.07	0.08	
. 15	BRO	EPD4	21	30	19.32					58.7	254	38	17.22	10.23	6.98	
.....																
APR H = 11 25 35.88 UTC RMS = 0.08 NO = 16																
. 16	LAT =	37.208 N	ERX =	0.2		ERH =	0.3	AVFM =	3.3	Q = C						FREE DEPTH SOLUTION
. 16	LONG =	115.469 W	ERY =	0.2		GAP =	86	AVXM =		QS = C						ALAMO
. 16	DEPTH =	1.70 KM	ERZ =	5.5		NM =				QD = C						
.....																
. 16	EPR	IPU	11	25	40.46			156	3.6	25.4	100	38	4.58	4.49	0.09	
. 16	GMR	IPU4	11	25	40.70					30.2	298	38	4.82	5.27	-0.45	
. 16	PRN	IPD	11	25	43.24					43.2	59	38	7.36	7.38	-0.03	
. 16	GLR	IPU	11	25	44.16			57	2.8	48.7	269	38	8.28	8.28	-0.00	
. 16	MTI	IPD	11	25	45.07					54.9	18	38	9.19	9.27	-0.09	
. 16	CPX	IPD	11	25	46.06			104	3.4	60.9	239	38	10.18	10.25	-0.07	
. 16	SPRG	IPU4	11	25	46.19			119	3.5	64.6	208	38	10.31	10.85	-0.55	
. 16	BLT	IPU	11	25	46.80			99	3.4	65.4	295	38	10.92	10.99	-0.07	
. 16	BGB	IPU4	11	25	47.35					70.0	254	38	11.47	11.74	-0.28	
. 16	LCP	IPD	11	25	48.23			97	3.4	73.5	238	38	12.35	12.31	0.04	
. 16	SSP	IPU	11	25	48.19			111	3.5	73.7	245	38	12.31	12.33	-0.02	
. 16	QCS	IPU	11	25	48.30			83	3.2	73.7	328	38	12.42	12.33	0.08	
. 16	MCY	IPU4	11	25	48.05			123	3.6	74.9	216	38	12.17	12.53	-0.36	
. 16	EPN	IPD2	11	25	48.86					75.9	271	38	12.98	12.69	0.28	
. 16	SPRG	EPD4	11	25	49.00			90	3.3	82.9	160	38	13.12	13.83	-0.72	
. 16	CDH1	IPU4	11	25	49.71					84.8	243	38	13.83	14.14	-0.32	
. 16	CDH5	IPU4	11	25	49.78			103	3.5	84.8	243	38	13.90	14.14	-0.25	
. 16	LSM	IPD	11	25	50.60					88.4	234	38	14.72	14.73	-0.01	
. 16	KPN	IPU4	11	25	52.04					94.4	306	38	16.16	15.71	0.45	
. 16	BMT	IPU4	11	25	53.55			105	3.5	94.9	275	38	17.67	15.79	1.88	
. 16	APK	EPD	11	25	52.29					99.0	185	38	16.41	16.46	-0.05	
. 16	SDH	IPU	11	25	52.32			85	3.3	99.5	231	38	16.44	16.53	-0.09	
. 16	JON	EPD	11	25	52.80			77	3.3	102.3	214	38	16.92	16.99	-0.07	
. 16	RVL	EPD4	11	25	54.61			31	2.5	110.4	325	38	18.73	18.31	0.42	
. 16	BPU	IPU4	11	25	55.36					114.2	244	38	19.48	18.92	0.56	
. 16	NKN	EPD4	11	25	56.17			100	3.6	120.8	263	38	20.29	19.99	0.29	
. 16	CTS	EPD4	11	25	56.26			63	3.2	121.2	273	38	20.38	20.06	0.32	
. 16	AMR	EPD	11	25	56.95			86	3.4	127.0	225	38	21.07	21.01	0.06	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SFC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 16	FMT	IPU4	11 25 58.07						132.7	242	38	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 H = 21 41 27.76 UTC RMS = 0.30 NO = 28 FREE DEPTH SOLUTION															
. 16	LAT =	37.208 N	ERX =	0.5	ERH =	0.7	AVFM =	2.3	Q = C						.
. 16	LONG =	115.476 W	ERY =	0.5	GAP =	63	AVXM =		QS = C			ALAMO			.
. 16	DEPTH =	0.06 KM	ERZ =	5.2	NM =				QD = C						.
.....															
. 16	EPR	IPU	21 41 32.38						26.1	100	38	4.62	4.93	-0.31	.
. 16	GMR	IPU4	21 41 32.65				41	2.5	29.7	298	38	4.89	5.51	-0.62	.
. 16	PRN	IPD	21 41 35.87						43.8	60	38	8.11	7.81	0.29	.
. 16	TPU	EPU	21 41 35.57						46.7	341	38	7.81	8.28	-0.47	.
. 16	GLR	IPD	21 41 36.46						48.1	269	38	8.70	8.51	0.19	.
. 16	CPX	IPD	21 41 38.08				32	2.4	60.3	239	38	10.32	10.49	-0.17	.
. 16	SPRG	IPD4	21 41 38.28				29	2.3	64.2	207	38	10.52	11.14	-0.62	.
. 16	BLT	EPU	21 41 38.70				25	2.2	64.8	296	38	10.94	11.23	-0.29	.
. 16	NPN	IPU	21 41 39.93						68.7	44	38	12.17	11.86	0.31	.
. 16	BGB	EPD4	21 41 40.56				31	2.4	69.4	254	38	12.80	11.98	0.82	.
. 16	LOP	EPU	21 41 40.10				35	2.5	73.0	237	38	12.34	12.56	-0.22	.
. 16	SSP	IPD	21 41 40.26				35	2.5	73.1	245	38	12.50	12.57	-0.07	.
. 16	QCS	EPD	21 41 40.55				19	1.9	73.3	328	38	12.79	12.62	0.17	.
. 16	MCY	IPU4	21 41 40.15				43	2.7	74.5	216	38	12.39	12.80	-0.41	.
. 16	EPN	EPU	21 41 40.35						75.2	271	38	12.59	12.92	-0.33	.
. 16	SHRG	IPD	21 41 42.00				20	2.0	83.1	160	38	14.24	14.21	0.03	.
. 16	CDH1	IPD	21 41 42.03						84.2	243	38	14.27	14.38	-0.12	.
. 16	CDH5	IPD	21 41 42.15				45	2.7	84.2	243	38	14.39	14.38	0.00	.
. 16	LSM	EPD2	21 41 43.10				17	1.9	87.9	234	38	15.34	14.98	0.36	.
. 16	BMT	IPU	21 41 44.60						94.3	275	38	16.84	16.02	0.82	.
. 16	APK	EP	21 41 44.50						98.9	185	38	16.74	16.78	-0.04	.
. 16	SDH	EPU	21 41 44.36				24	2.2	99.0	231	38	16.60	16.78	-0.18	.
. 16	JON	IPU	21 41 44.81				23	2.2	101.9	213	38	17.05	17.26	-0.21	.
. 16	BRO	EPD	21 41 47.46						113.6	244	38	19.70	19.16	0.54	.
. 16	NMN	EP	21 41 48.60						120.1	263	38	20.84	20.22	0.62	.
.....															
. 16	AMR	IPU	21 41 49.39						126.5	225	38	21.63	21.27	0.36	.
. 16	FMT	IPD	21 41 50.19				23	2.3	132.1	242	38	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	GMN	EP	21 41 54.15						158.5	274	30	26.39	25.71	0.68	.
. 16	GVN	EP 4	21 41 55.50						167.5	262	30	27.74	26.88	0.86	.
. 16		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 H = 2 27 39.35 UTC RMS = 0.15 NO = 23 FREE DEPTH SOLUTION															
. 21	LAT =	37.295 N	ERX =	0.3	ERH =	0.4	AVFM =	2.4	Q = C						.
. 21	LONG =	116.346 W	ERY =	0.3	GAP =	77	AVXM =		QS = C			SILENT CANYON - NORTH			.
. 21	DEPTH =	2.86 KM	ERZ =	7.5	NM =				QD = B						.
.....															
. 21	EPN	IPD	2 27 41.38						9.2	167	98	2.03	1.86	0.17	.
. 21	BMT	IPU3	2 27 43.30				54	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	7.28	-0.08	.
. 21	CPX	EPU4	2 27 47.05				32	2.3	48.0	148	91	7.70	8.17	-0.47	.
. 21	NMN	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	2.8	48.3	177	91	8.07	8.21	-0.14	.
. 21	CTS	IPU	2 27 47.99				24	2.1	50.9	319	91	8.64	8.64	-0.00	.
. 21	GMR	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	10.60	10.44	0.36	.
. 21	BRO	IPD	2 27 50.10						64.1	203	90	10.75	10.77	-0.02	.
. 21	QCS	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	MCY	EPD	2 27 52.65				39	2.6	78.1	154	90	13.30	13.06	0.24	.
. 21	GMN	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	FMT	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 55.64				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	LCH	EPD	2 27 58.86				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	NPN	FPD4	2 28 1.44						130.8	72	90	22.09	21.62	0.47	.
.....															

1980 SOUTHERN GREAT BASIN  
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1980 STA PHASE TIME AMP PER XMAG DUR FMAG DIST AZI AIN TORS TCAL RES REMARKS  
(UTC) (MU) (SFC) (KM) (DFG)(DEG) (SEC) (SEC) (SEC)

APR H = 4 8 40.82 UTC RMS = 0.27 NO = 30 FREE DEPTH SOLUTION  
23 LAT = 36.868 N ERX = 0.5 ERH = 0.7 AVFM = 2.3 Q = B  
LONG = 116.175 W ERY = 0.5 GAP = 45 AVXM = US = R LATHROP WELLS  
DEPTH = 3.36 KM ERZ = 1.7 NM = QD = A

23	LOP	IPD0	4	8	42.10	49	2.5	1.7	150	147	1.28	0.80	0.48
23	SSP	IPD	4	8	42.60	48	2.5	7.4	329	105	1.78	1.60	0.18
23	CPX	IPD	4	8	43.00	38	2.3	12.4	57	98	2.18	2.39	-0.22
23	CDH5	IPU	4	8	43.03	50	2.6	12.7	266	98	2.21	2.44	-0.23
23	CDH1	IPD	4	8	43.12	67	2.8	12.7	266	98	2.30	2.44	-0.14
23	LSM	IPD	4	8	43.81			16.7	211	96	2.99	3.08	-0.10
23	BGB	IPU	4	8	44.07	32	2.2	19.4	346	95	3.25	3.53	-0.28
23	SDH	EPD	4	8	45.51			28.6	211	93	4.69	5.02	-0.33
23	MCY	IPD	4	8	45.79	41	2.5	29.7	140	93	4.97	5.20	-0.23
23	SPRG	IPU	4	8	47.13	34	2.3	37.9	121	93	6.31	6.52	-0.22
23	GLR	EP	4	8	47.05	10	1.3	39.4	21	92	6.23	6.76	-0.54
23	EPN	IPU4	4	8	44.34			40.7	341	92	3.52	6.97	-3.45
23	BRO	EPU	4	8	47.51			41.8	254	92	6.69	7.16	-0.48
23	JON	IPU	4	8	48.80	26	2.1	47.9	172	92	7.98	8.15	-0.18
23	BMT	IPU4	4	8	51.13	38	2.5	56.1	325	92	10.31	9.48	0.83
23	AMR	EP	4	8	51.00	17	1.8	58.6	207	92	10.18	9.90	0.28
23	FMT	IPD	4	8	50.86	18	1.8	59.5	245	92	10.04	10.04	-0.01
23	NMN	IPU	4	8	51.24	36	2.5	61.9	292	92	10.42	10.43	-0.02
23	BLT	EPD	4	8	51.80	29	2.3	66.0	3	91	10.98	11.09	-0.11
23	SGV	EPD	4	8	53.89	35	2.5	77.4	279	91	13.07	12.96	0.11
23	APK	EP	4	8	54.70			81.2	139	91	13.88	13.57	0.30
23	GWV	EPU	4	8	55.91	20	2.0	87.7	210	90	15.09	14.61	0.48
23	EPR	IPU	4	8	56.94			94.1	69	90	16.12	15.66	0.46
23	PGE	EPD	4	8	57.33			98.3	234	90	16.51	16.34	0.17
23	CTS	EPD	4	8	57.32	20	2.1	98.6	330	90	16.50	16.39	0.11
23	SHRG	IPD	4	8	57.29	20	2.1	99.7	114	90	16.47	16.56	-0.09
23	MCA	EPD	4	8	57.83	26	2.3	101.6	256	90	17.01	16.88	0.13
23	GVN	EPU	4	8	58.30	31	2.5	105.1	278	90	17.48	17.44	0.03
23	GMN	IPD	4	8	58.81	20	2.1	107.7	296	90	17.99	17.86	0.12
23	TPO	IPD	4	8	59.36	21	2.2	110.3	266	90	18.54	18.28	0.26
23	PRN	EP	4	9	0.50	26	2.4	116.6	59	90	19.68	19.31	0.37
23	MGM	IPU	4	9	3.18			133.5	298	53	22.36	21.92	0.43

APR H = 5 24 30.13 UTC RMS = 0.08 NO = 10 FREE DEPTH SOLUTION  
23 LAT = 36.815 N ERX = 0.3 ERH = 0.4 AVFM = 1.9 Q = C  
LONG = 116.263 W ERY = 0.3 GAP = 98 AVXM = QS = C LATHROP WELLS  
DEPTH = 2.40 KM ERZ = 5.5 NM = QD = B

23	CDH5	IPU4	5	24	31.48	40	2.4	7.0	316	97	1.1	1.50	-0.15
23	CDH1	IPD	5	24	31.58	49	2.5	7.0	316	97	1.1	1.50	-0.05
23	LSM	IPU	5	24	31.85			8.5	186	96	1.72	1.74	-0.02
23	LCP	IPD	5	24	32.12	31	2.1	9.5	63	95	1.99	1.91	0.08
23	SSP	IPU	5	24	32.59	31	2.2	12.8	18	93	2.46	2.44	0.02
23	SDH	IPD	5	24	33.68	20.0		20.0	200	92	3.55	3.61	-0.06
23	CPX	IPD	5	24	33.94	19	1.8	22.2	55	92	3.81	3.96	-0.15
23	BGB	EPD	5	24	34.61	17	1.7	24.9	7	92	4.48	4.41	0.07
23	BRO	EPD	5	24	35.80	11	1.3	32.9	260	91	5.67	5.71	-0.04
23	JON	IPU	5	24	37.70	15	1.6	44.0	161	90	7.57	7.51	0.06
23	EPN	EPU4	5	24	39.06			44.6	353	90	8.93	7.61	1.32
23	FMT	EPU	5	24	38.74	13	1.5	50.1	247	90	8.61	8.49	0.11
23	BMT	EPU4	5	24	40.86	21	2.0	57.3	335	90	10.73	9.67	1.06
23	NMN	EPU4	5	24	40.35	21	2.0	57.6	301	90	10.22	9.72	0.49
23	SGV	EPU4	5	24	42.35	21	2.0	71.0	285	90	12.22	11.90	0.32
23	GVN	EPU4	5	24	47.00	22	2.2	98.4	282	90	16.87	16.36	0.51

APR H = 16 43 20.07 UTC RMS = 0.05 NO = 8 FREE DEPTH SOLUTION  
23 LAT = 37.302 N ERX = 0.2 ERH = 0.4 AVFM = 1.6 Q = B  
LONG = 117.380 W ERY = 0.3 GAP = 125 AVXM = QS = B MT. JACKSON  
DEPTH = 5.97 KM ERZ = 2.4 NM = QD = B

23	GMN	IPU	16	43	22.25	8	1.0	10.6	91	114	2.18	2.23	-0.05
23	MGM	IPU	16	43	23.56	7	0.9	18.6	326	104	3.49	3.46	0.03
23	LCH	IPU	16	43	24.49	10	1.2	24.9	253	100	4.42	4.46	-0.04
23	GVN	EPD	16	43	25.95	14	1.5	33.5	174	98	5.88	5.84	0.04
23	NMN	IPD	16	43	29.59	15	1.7	55.6	116	95	9.52	9.41	0.11
23	BMT	EPD4	16	43	31.40	17	1.9	75.0	92	93	11.33	12.57	-1.24
23	CDH5	EPD	16	43	37.58	22	2.2	106.4	117	92	17.51	17.67	-0.16
23	CDH1	IPD	16	43	37.71	25	2.3	106.4	117	92	17.64	17.67	-0.03
	IS00		16	43	50.95						30.88	30.92	-0.04

APR H = 6 2 27.66 UTC RMS = 0.04 NO = 7 FREE DEPTH SOLUTION  
24 LAT = 36.817 N ERX = 0.4 ERH = 0.4 AVFM = 1.6 Q = B

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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 = 116.274 W ERY = 0.2 GAP = 124 AVXM = QS = 8 LATHROP WELLS															
DEPTH = 2.83 KM ERZ = 3.1 NM = QD = 8															
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 29.44					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	SDH	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	MCY	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 = 36.817 N ERX = 0.4 ERH = 0.5 AVFM = 1.5 Q = 8															
LONG = 116.274 W ERY = 0.3 GAP = 124 AVXM = QS = 8 LATHROP WELLS															
DEPTH = 2.91 KM ERZ = 3.3 NM = QD = 8															
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 1.44					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	SDH	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	MCY	IPD	6 3 5.42					8	1.1	32.8	122	92	5.74	5.69	0.06
APR H = 7 20 49.72 UTC RMS = 0.07 NO = 8 FREE DEPTH SOLUTION															
24 LAT = 36.817 N ERX = 0.5 ERH = 0.6 AVFM = 1.5 Q = 8															
LONG = 116.271 W ERY = 0.3 GAP = 122 AVXM = QS = 8 LATHROP WELLS															
DEPTH = 3.45 KM ERZ = 3.1 NM = QD = 8															
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 51.18					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	SDH	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	MCY	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 = 36.010 N ERX = 1.1 ERH = 2.8 AVFM = 2.5 Q = D															
LONG = 116.091 W ERY = 2.5 GAP = 234 AVXM = QS = C ASH MEADOWS															
DEPTH = 0.30 KM ERZ = 8.1 NM = QD = D															
25	JCN	IPD	3 48 45.85					36	2.4	47.7	359	38	7.91	8.40	-0.49
25	AMR	EPU	3 48 47.00					37	2.5	55.1	321	38	9.06	9.60	-0.54
25	GMV	IPU	3 48 47.35					44	2.6	55.7	291	38	9.41	9.71	-0.29
25	MCY	IPU	3 48 50.00							73.2	9	38	12.06	12.55	-0.49
25	SDH	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	3.0	80.0	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	15.98	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	SHRG	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	NMH	EPU	3 49 0.81					28	2.5	135.5	331	30	22.87	22.67	0.20
25	SGV	EPD	3 49 0.90					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	TWO	IPD	3 49 2.25							147.5	307	30	24.31	24.22	0.09
25	GMR	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 ERH = 0.4 AVFM = 3.1 Q = C															
LONG = 116.304 W ERY = 0.2 GAP = 74 AVXM = QS = 8 SILENT CANYON - NORTH															
DEPTH = 3.78 KM ERZ = 4.9 NM = QD = C															
25	EPH	IPU	10 40 32.70					133	3.4	11.8	189	101	2.37	2.30	0.06
25	BMT	IPU4	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	4.99	5.02	-0.03

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1980	STA	PHASE	TIME (UTC)	AMP PER (MU) (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
.	25	BGB	IPU	10 40 35.87				31.9	168	94	5.54	5.56	-0.02	.
.	25	SSP	IPD	10 40 37.80		122	3.5	44.4	170	93	7.47	7.58	-0.11	.
.	25	KRNA	IPU	10 40 38.50		87	3.2	48.3	352	93	8.17	8.22	-0.05	.
.	25	CPX	EPD	10 40 38.59		82	3.1	48.5	153	93	8.26	8.24	0.01	.
.	25	CDH1	EPD	10 40 38.80		97	3.3	50.9	181	92	8.47	8.64	-0.18	.
.	25	CDH5	IPU	10 40 38.82		77	3.1	50.9	181	92	8.49	8.64	-0.16	.
.	25	CTS	IPU	10 40 39.26		55	2.8	51.6	314	92	8.93	8.75	0.18	.
.	25	NMN	IPD	10 40 39.40		93	3.3	52.8	240	92	9.07	8.95	0.12	.
.	25	BRD	IPD	10 40 41.67				68.1	205	92	11.34	11.43	-0.10	.
.	25	SGV	IPD	10 40 42.99		91	3.3	74.8	240	92	12.66	12.52	0.13	.
.	25	SDH	IPU	10 40 42.89		61	3.0	74.8	182	92	12.56	12.53	0.03	.
.	25	SPRG	EPD	10 40 44.21		76	3.2	82.1	148	91	13.88	13.72	0.15	.
.	25	GMN	EPU	10 40 44.40		64	3.0	84.8	269	91	14.07	14.16	-0.09	.
.	25	GVN	IPD	10 40 46.91		65	3.1	98.7	249	91	16.58	16.43	0.15	.
.	25	JON	EPU	10 40 46.95		51	2.9	99.2	170	91	16.62	16.50	0.11	.
.	25	EPR	EPD4	10 40 47.99		95	3.4	100.6	100	91	17.66	16.73	0.93	.
.	25	AMR	EPU2	10 40 48.05		57	3.0	103.4	188	91	17.72	17.19	0.53	.
.	25	MZP	EPU	10 40 47.46		43	2.8	104.4	294	91	17.13	17.36	-0.23	.
.	25	MGM	IPU	10 40 47.96		60	3.1	106.5	277	90	17.63	17.67	-0.04	.
.	25	MCA	IPU	10 40 49.28		40	2.7	114.5	229	90	18.95	18.97	-0.03	.
.	25	LCH	IPD	10 40 50.50		45	2.9	119.5	266	90	20.17	19.79	0.38	.
.	25	PGE	EP	10 40 51.50				127.4	212	90	21.17	21.06	0.10	.
.	25	APK	EPU4	10 40 52.90		29	2.5	128.6	150	53	22.57	21.25	1.31	.
.	25	SHRG	EPD4	10 40 54.31		51	3.0	136.6	131	53	23.98	22.28	1.69	.
.	25	PPK	IPD4	10 40 54.60		45	2.9	142.5	275	53	24.27	23.06	1.21	.

APR H = 2 13 7.25 UTC RMS = 0.07 NO = 8 FREE DEPTH SOLUTION  
 26 LAT = 36.815 N ERX = 0.5 ERH = 0.6 AVFM = 1.3 Q = B  
 LONG = 116.275 W ERY = 0.3 GAP = 126 AVXM = QS = B LATHROP WELLS  
 DEPTH = 4.20 KM ERZ = 2.3 NM = QD = B

.	26	CDH5	IPU	2 13 8.65		15	1.5	6.4	323	116	1.40	1.48	-0.08	.
.	26	CDH1	IPD	2 13 8.73		20	1.8	6.4	323	116	1.48	1.48	0.00	.
.	26	LSM	IPU	2 13 9.10				8.4	178	109	1.85	1.79	0.06	.
.	26	LOP	IPU	2 13 9.23		11	1.2	10.5	65	105	1.98	2.12	-0.14	.
.	26	SSP	EP	2 13 10.00		9	1.1	13.2	22	102	2.75	2.55	0.20	.
.	26	SDH	IPU	2 13 10.79				19.6	197	98	3.54	3.57	-0.02	.
.	26	BGB	EP	2 13 11.71				25.1	10	96	4.46	4.46	0.00	.
.	26	MCY	EPU	2 13 12.95		7	0.9	32.7	121	95	5.70	5.68	0.02	.

APR H = 13 1 55.13 UTC RMS = 0.08 NO = 4 FREE DEPTH SOLUTION  
 27 LAT = 37.052 N ERX = ERH = AVFM = 1.7 Q = C  
 LONG = 117.451 W ERY = GAP = 195 AVXM = QS = A MT. JAL SON  
 DEPTH = 1.10 KM ERZ = NM = QD = D

.	27	GVN	IPU	13 1 57.35		28	2.1	11.2	120	38	2.22	2.29	-0.08	.
.	27	LCH	EP 4	13 1 59.60		15	1.6	26.7	319	38	4.47	4.83	-0.36	.
.	27	GMN	EP	13 2 0.81				32.3	32	38	5.68	5.73	-0.06	.
.	27	SGV	EP 4	13 2 2.06		21	1.9	38.1	102	38	6.93	6.67	0.26	.
.	27	NMN	EP	13 2 4.91		16	1.7	56.3	87	38	9.78	9.64	0.14	.
.	27	PPK	IPU	13 2 5.06		9	1.2	58.0	316	38	9.93	9.91	0.02	.

APR H = 4 12 47.91 UTC RMS = 0.03 NO = 7 FREE DEPTH SOLUTION  
 29 LAT = 36.827 N ERX = 0.2 ERH = 0.4 AVFM = 1.5 Q = C  
 LONG = 115.864 W ERY = 0.3 GAP = 153 AVXM = QS = B MERCURY  
 DEPTH = 8.08 KM ERZ = 2.2 NM = QD = C

.	29	SPRG	EPU	4 12 51.00		15	1.5	15.5	162	114	3.09	3.10	-0.01	.
.	29	MCY	IPU	4 12 51.74		21	1.8	20.3	205	108	3.83	3.82	0.00	.
.	29	CPX	IPU	4 12 51.75		10	1.2	20.7	303	108	3.84	3.88	-0.04	.
.	29	LCP	IPU	4 12 52.90		15	1.6	27.2	276	104	4.99	4.90	0.08	.
.	29	SSP	EPU4	4 12 53.95		15	1.6	33.4	289	101	6.04	5.88	0.15	.
.	29	LSM	EPD4	4 12 54.79				37.6	255	100	6.88	6.56	0.31	.
.	29	BGB	EP 4	4 12 54.59				40.0	306	99	6.68	6.93	-0.26	.
.	29	CDH5	IPD	4 12 54.88		20	1.9	40.6	275	99	6.97	7.04	-0.07	.
.	29	CDH1	IPU	4 12 54.96		27	2.1	40.6	275	99	7.05	7.04	0.01	.
.	29	SDH	EPD4	4 12 56.37		8	1.1	46.9	245	98	8.46	8.05	0.41	.
.	29	JON	EPU4	4 12 56.50		7	1.0	48.0	206	98	8.59	8.22	0.36	.
.	29	GMN	IPU	4 12 57.59				56.9	8	97	9.68	9.66	0.02	.

APR H = 17 53 31.79 UTC RMS = 0.06 NO = 9 FREE DEPTH SOLUTION  
 29 LAT = 36.817 N ERX = 0.4 ERH = 0.4 AVFM = 1.3 Q = B  
 LONG = 116.273 W ERY = 0.2 GAP = 124 AVXM = QS = B LATHROP WELLS  
 DEPTH = 3.37 KM ERZ = 2.1 NM = QD = B

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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														
29	CDH5	IPU2	17 53	35.12			19 1.7	6.2	321	108	1.33	1.41	-0.08	
29	CDH1	IPD	17 53	33.22			25 1.9	6.2	321	108	1.43	1.41	0.02	
29	LSM	IPD	17 53	33.60				8.7	179	103	1.81	1.79	0.02	
29	LOP	IPD	17 53	33.80			15 1.5	10.3	66	101	2.01	2.05	-0.04	
29	SSP	IPU	17 53	34.20			13 1.4	12.9	22	98	2.41	2.48	-0.06	
29	SDH	EPU	17 53	35.34			6 0.8	19.9	197	95	3.55	3.60	-0.05	
29	BGB	EP	17 53	36.30			6 0.8	24.8	9	94	4.51	4.40	0.11	
29	MCY	IPU	17 53	37.50			19 1.8	32.7	122	93	5.71	5.68	0.04	
29	JON	EPD3	17 53	39.60			6 0.8	44.5	160	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 = 1.0	NM =		QD = B							
30	MCY	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	18.0	70	122	3.76	3.79	-0.04	
30	JON	IPD	9 34	4.08			17 1.7	24.0	203	115	4.63	4.64	-0.01	
30	LSM	IPU	9 34	4.51			42 2.5	26.8	295	113	5.07	5.06	0.01	
30	LOP	EP	9 34	4.68			15 1.6	28.2	328	112	5.24	5.28	-0.04	
30	SDH	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	CDH5	IPU	9 34	6.06			12 1.4	37.6	311	106	6.62	6.72	-0.10	
30	CDH1	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	NMN	EPU	9 34	14.45				87.9	304	97	15.00	14.76	0.25	
MAY	H = 7	38 28.30	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 = 120	AVXM =	QS = B							LATHROP WELLS
	DEPTH = 3.56	KM		ERZ = 3.8	NM =		QD = B							
02	CDH1	IPD	7 38	29.78			27 2.0	6.5	318	109	1.48	1.47	0.01	
02	LSM	IPD	7 38	30.00			31 2.1	8.6	182	104	1.70	1.79	-0.09	
02	LOP	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	SDH	IPD	7 38	31.80			5 0.6	20.0	198	96	3.50	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	24.8	8	95	4.45	4.40	0.05	
02	MCY	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 = 36.458	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	184	138	3.33	3.30	0.03	
03	GWV	EP 4	10 31	36.55			12 1.4	45.9	131	106	17.84	8.11	9.73	
03	TMO	EPD	10 31	27.41				49.7	321	105	8.70	8.72	-0.02	
03	BRQ	EP 2	10 31	27.46				51.2	49	104	8.75	8.95	-0.20	
03	AMR	EPU3	10 31	27.54				52.6	97	104	8.83	9.17	-0.34	
03	SGV	EPU3	10 31	29.09			14 1.6	58.0	2	103	10.38	10.03	0.35	
	ISU4		10 31	36.00							17.29	17.54	-0.26	
03	NMN	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	CDH1	IPD	10 31	32.13			22 2.1	79.6	56	99	13.42	13.47	-0.05	
03	CDH5	EPU	10 31	32.12			17 1.9	79.6	56	99	13.41	13.47	-0.06	
03	LOP	EPU	10 31	34.06			14 1.7	90.7	61	98	15.35	15.25	0.09	
03	SSP	EPU0	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	FFU3	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 = 1.8	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	GMN	IPU	11 36	42.79			10 1.2	20.2	42	106	3.74	3.77	-0.02	
08	LCH	IPU	11 36	43.10			14 1.5	22.2	290	105	4.05	4.08	-0.03	
08	MGM	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	

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. 08	NMN	IPU	11 36 48.10					22 2.0	53.7	100	96	9.05	9.12	-0.07	.
. 08	BMT	EPD2	11 36 50.85					22 2.1	79.1	80	94	11.0	13.25	-1.45	.
. 08	BRO	IPD	11 36 52.95						83.1	123	94	13.90	13.90	0.01	.
. 08	CDH1	IPU	11 36 56.13					32 2.5	103.2	109	93	17.08	17.16	-0.07	.
. 08	CDH5	EP	11 36 56.20					26 2.3	103.2	109	93	17.15	17.16	-0.00	.
. 08	BGB	EPD	11 36 56.77						106.3	98	93	17.72	17.66	0.06	.

MAY H = 11 3 32.82 UTC RMS = 0.13 NO = 16 FREE DEPTH SOLUTION  
 . 10 LAT = 36.809 N ERX = 0.2 ERH = 0.3 AVFM = 2.2 Q = C  
 . LONG = 116.268 W ERY = 0.2 GAP = 84 AVXM = QS = C LATHROP WELLS  
 . DEPTH = 2.28 KM ERZ = 5.5 NM = QD = B

. 10	CDH5	IPU2	11 3 34.14					49 2.5	7.2	322	96	1.32	1.54	-0.21	.
. 10	CDH1	IPD2	11 3 34.18					59 2.7	7.2	322	96	1.36	1.54	-0.17	.
. 10	LSM	IPU2	11 3 33.79						7.7	183	95	0.97	1.62	-0.64	.
. 10	LOP	IPD	11 3 34.75					46 2.5	10.3	61	94	1.93	2.03	-0.09	.
. 10	SDH	IPD	11 3 36.21					21 1.8	19.2	199	92	3.39	3.47	-0.08	.
. 10	CPX	IPD4	11 3 36.49					26 2.0	22.9	54	92	3.67	4.09	-0.41	.
. 10	BGB	IPD2	11 3 37.23						25.7	8	91	4.41	4.53	-0.12	.
. 10	MCY	IPU	11 3 38.35					48 2.6	31.8	121	90	5.53	5.53	0.01	.
. 10	BRO	EPD4	11 3 38.21					18 1.8	32.3	261	90	5.39	5.61	-0.21	.
. 10	SPRG	IPU	11 3 40.14					29 2.2	42.9	107	90	7.32	7.32	0.00	.
. 10	JON	IPU	11 3 40.32					35 2.4	43.5	160	90	7.50	7.43	0.08	.
. 10	GLR	EP	11 3 41.22						48.7	27	90	8.40	8.28	0.13	.
. 10	AMR	EPD	11 3 41.26					20 1.9	49.2	202	90	8.44	8.35	0.09	.
. 10	NMN	IPU4	11 3 43.10					31 2.3	57.6	302	90	10.28	9.72	0.57	.
. 10	BMT	EPD4	11 3 43.50					32 2.3	57.8	336	90	10.68	9.74	0.94	.
. 10	SGV	EPD	11 3 44.81					29 2.3	70.8	286	90	11.99	11.86	0.13	.
. 10	BLT	EP 2	11 3 45.00					20 2.0	73.4	9	90	12.18	12.28	-0.10	VERY E
. 10	NOP	EPD0	11 3 45.40					20 2.0	76.2	172	90	12.58	12.75	-0.16	.
. 10	APK	IPD4	11 3 37.91					25 2.2	82.5	131	90	5.09	13.76	-8.67	.
. 10	GVN	EPD4	11 3 49.60					28 2.4	98.1	283	90	16.78	16.31	0.47	.
. 10	CTS	EP 4	11 3 50.32						100.8	336	90	17.50	16.74	0.76	VERY E
. 10	TMO	IPD4	11 3 50.70					19 2.0	101.8	270	90	17.88	16.90	0.99	.
. 10	EPR	EPD4	11 3 50.59						104.2	67	90	17.77	17.30	0.48	.
. 10	KRNA	EP 4	11 3 50.93					21 2.1	104.9	355	90	18.11	17.41	0.70	VERY E
. 10	SHRG	EPU	11 3 50.40					13 1.7	105.0	109	90	17.58	17.43	0.16	.
. 10	MGM	EPD0	11 3 54.52					22 2.3	129.8	303	90	21.70	21.46	0.24	.
. 10	LCH	EPD4	11 3 55.10					19 2.1	131.6	291	90	22.28	21.75	0.54	.

MAY H = 9 28 54.08 UTC RMS = 0.02 NO = 7 FREE DEPTH SOLUTION  
 . 11 LAT = 36.571 N ERX = 0.2 ERH = 0.3 AVFM = 1.7 Q = B  
 . LONG = 116.339 W ERY = 0.1 GAP = 148 AVXM = QS = A LATHROP WELLS  
 . DEPTH = 7.94 KM ERZ = 0.5 NM = QD = C

. 11	SDH	IPD	9 28 56.15					10 1.2	8.2	1	130	2.07	2.07	0.00	.
. 11	LSM	IPD	9 28 57.75						19.5	18	109	3.67	3.70	-0.03	.
. 11	AMR	EPD	9 28 58.28						22.8	212	106	4.20	4.20	0.00	.
. 11	CDH5	IPD	9 28 59.73					17 1.7	32.1	3	101	5.65	5.68	-0.02	.
. 11	CDH1	IPU	9 28 59.76					27 2.1	32.1	3	101	5.68	5.68	0.01	.
. 11	BRO	EP 4	9 28 59.58						33.2	310	101	5.50	5.86	-0.35	.
. 11	LOP	EPD	9 29 0.25					13 1.5	34.9	26	101	6.17	6.12	0.05	.
. 11	MCY	IPU	9 29 0.23					21 1.9	35.2	73	100	6.15	6.16	-0.01	.
. 11	FMT	EPD4	9 29 1.53						40.1	281	99	7.45	6.95	0.50	.

MAY H = 2 33 41.84 UTC RMS = 0.07 NO = 6 FREE DEPTH SOLUTION  
 . 13 LAT = 36.821 N ERX = 0.7 ERH = 1.1 AVFM = 1.0 Q = C  
 . LONG = 116.060 W ERY = 0.8 GAP = 223 AVXM = QS = B LATHROP WELLS  
 . DEPTH = 17.32 KM ERZ = 1.3 NM = QD = D

. 13	LOP	IPU	2 33 45.36					6 0.7	10.3	291	148	3.52	3.46	0.05	.
. 13	SSP	EPD3	2 33 46.76					6 0.8	18.2	309	132	4.92	4.30	0.61	.
. 13	MCY	IPU	2 33 46.29					13 1.4	19.7	154	130	4.45	4.49	-0.04	.
. 13	LSM	EP 3	2 33 46.90						21.0	244	128	5.06	4.65	0.41	VERY E
. 13	CDH1	IPD	2 33 46.80					17 1.7	23.4	281	125	4.96	4.96	-0.00	.
. 13	CDH5	IPU	2 33 46.75					5 0.6	23.4	281	125	4.91	4.96	-0.05	.
. 13	JON	EP 3	2 33 49.67						42.5	185	111	7.83	7.73	0.10	VERY E

MAY H = 8 33 31.96 UTC RMS = 0.06 NO = 6 FREE DEPTH SOLUTION  
 . 14 LAT = 36.840 N ERX = 0.7 ERH = 0.9 AVFM = 1.5 Q = B  
 . LONG = 116.203 W ERY = 0.5 GAP = 142 AVXM = QS = A LATHROP WELLS  
 . DEPTH = 7.96 KM ERZ = 1.4 NM = QD = C

. 14	LOP	IPU	8 33 33.53					19 1.7	3.5	64	154	1.57	1.60	-0.03	.
. 14	SSP	EPD	8 33 34.22					18 1.7	9.5	352	126	2.26	2.24	0.02	.

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	A71 (CFG)	A1N (LEG)	T0BS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 14	LSM	IPD	8 33 34.71					31	2.2	12.8	209	118	2.75	2.69	0.06
. 14	SDH	EPD	8 33 36.35					7	0.9	24.8	209	105	4.39	4.51	-0.12
. 14	MCY	IPU	8 33 37.15					18	1.7	29.2	133	103	5.19	5.22	-0.03
. 14	JON	EPU	8 33 39.86					6	0.8	45.3	169	98	7.40	7.79	0.11

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MAY H = 1 30 38.60 UTC RMS = 0.11 NO = 8									
15 LAT = 36.504 N ERX = 1.2 ERH = 1.6 AVFM = 1.4 Q = D									
LONG = 115.096 W ERY = 1.1 GAP = 229 AVXM = Q = C									
DEPTH = 5.00 KM ERZ = 7.8 NM = QD = D									
.....									
15 MCY IPU 1 30 41.89 26 2.0 18.5 341 101 3.29 3.40 -0.12									
15 JON IPD 1 30 42.21 9 1.1 19.9 249 100 3.61 3.63 -0.03									
15 SPRG EPD 1 30 42.00 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 SDH 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 45.8 328 94 7.91 7.82 0.09									
15 CDH1 IPU0 1 30 48.02 54.6 316 94 9.42 9.25 0.17									
15 CDH5 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									
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MAY H = 16 49 8.20 UTC				RMS = 0.09		NO = 8		FREE DEPTH SOLUTION					
16 LAT = 37.074 N				ERX = 0.9		ERH = 1.0		AVFM = 1.9		Q = C			
LONG = 116.055 W				ERY = 0.4		GAP = 162		AVXM =		QS = B			
DEPTH = 8.64 KM				ERZ = 3.8		NM =				WD = C			
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	SSP	EPD0	16 49 12.24					22.1	221	108	4.04	4.12	-0.08
16	LDP	EPD	16 49 13.19			24	2.0	26.4	202	105	4.99	4.80	0.19
16	CDH5	IPD0	16 49 13.95			26	2.1	33.3	225	102	5.75	5.89	-0.14
16	CDH1	IPD0	16 49 13.99			32	2.3	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	BLT	EPD0	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 H = 1 43 11.44 UTC										RMS = 0.38		NO = 9		FREE DEPTH SOLUTION					
18 LAT = 36.819 N										ERX = 2.5		ERH = 3.1		AVFM = 1.3		Q = C			
LONG = 116.273 W										ERY = 1.9		GAP = 123		AVXM =		QS = C		LATHROP WELLS	
DEPTH = 9.30 KM										ERZ = 5.9		NM =				QD = B			
.....																			
18	CDH1	IPD	1	43	13.63					23	1.9	6.0	319	145	2.19	1.99	0.20		
18	CDH5	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	LGP	IPD	1	43	13.63					11	1.2	10.2	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	SDH	IPU	1	43	15.27							20.1	197	112	3.83	3.87	-0.03		
18	BGB	EPU3	1	43	16.90							24.6	10	108	5.46	4.55	0.92		
18	MCY	IPD	1	43	17.60					12	1.4	32.9	122	104	6.16	5.84	0.32		
18	EPN	EPU1	1	43	17.56							44.0	354	100	6.12	7.62	-1.50		

MAY H = 17 56 25.58 UTC										RMS = 0.27 NO = 8										FREE DEPTH SOLUTION									
18 LAT = 36.930 N										ERX = 2.2 ERH = 3.6										AVFM = 1.2 Q = D									
LONG = 116.009 W										ERY = 2.9 GAP = 204										AVXM = Q5 = C									
DEPTH = 33.89 KM										ERZ = 4.3 NM =										QD = D 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	32.11					11	1.3	16.5	239	149	6.53	5.94	0.59												
18	SSP	EPU4	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	CDH1	EP	17	56	32.25					19	1.8	28.6	254	131	6.67	6.96	-0.28												
18	CDH5	EP	17	56	32.48					9	1.1	28.6	254	131	6.90	6.96	-0.05												
18	MCY	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												

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. MAY H = 4 16 35.37 UTC RMS = 0.43 NU = 31 FREE DEPTH SOLUTION
. 19 LAT = 37.076 N ERX = 0.7 ERH = 1.0 AVFM = 2.9 Q = C
. LONG = 117.074 W FRY = 0.8 GAP = 64 AVXM = QS = C MT. JACKSON
. DEPTH = 1.74 KM ERZ = 3.3 NM = UD = C
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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TGAL (SEC)	RES (SEC)	REMARKS	
. 19	SGV	IPU	4 16 38.00					100	3.2	11.2	161	90	2.63	2.17	0.46	
. 19	NMN	IPU	4 16 39.33					87	3.1	22.7	89	90	3.96	4.05	-0.09	
. 19	GVN	IPD	4 16 40.29					103	3.2	25.3	251	90	4.92	4.47	0.45	
. 19	GMN	IPU	4 16 40.59					43	2.5	29.8	326	90	5.02	5.20	-0.18	
. 19	IMU	IPD	4 16 41.89					38	2.4	42.3	225	90	6.52	7.23	-0.71	
. 19	URO	IPU4	4 16 43.40							53.0	131	90	8.03	8.97	-0.94	
. 19	BMT	IPD3	4 16 42.89					73	3.0	53.2	64	90	7.52	9.00	-1.48	
. 19	LCH	EPU	4 16 44.40					46	2.6	53.9	289	90	9.03	9.11	-0.08	
. 19	FMT	IPU	4 16 43.84							55.1	152	90	8.47	9.32	-0.85	
. 19	MGM	IPU	4 16 44.70					51	2.7	55.2	317	90	9.33	9.32	0.01	
. 19	EPN	IPD	4 16 47.25					87	3.2	68.4	77	90	11.88	11.48	0.40	
. 19	CTS	IPD	4 16 47.14					42	2.6	69.7	26	90	11.77	11.69	0.08	
. 19	CDH5	IPD4	4 16 46.49					71	3.1	71.5	110	90	11.12	11.97	-0.85	
. 19	CDH1	IPD	4 16 46.58					104	3.4	71.5	110	90	11.21	11.97	-0.76	
. 19	MZP	EPU	4 16 47.70					27	2.3	74.5	338	90	12.33	12.46	-0.13	
. 19	BGB	IPD	4 16 47.42							75.4	93	90	12.05	12.60	-0.56	
. 19	SSP	IPU	4 16 48.76					64	3.0	78.0	102	90	13.39	13.03	0.36	
. 19	LSM	EPD	4 16 48.90					71	3.1	80.7	118	90	13.53	13.47	0.05	
. 19	SDH	IPU	4 16 49.06					43	2.7	81.2	126	90	13.69	13.55	0.14	
. 19	PPK	EPD	4 16 49.55							83.5	298	90	14.18	13.92	0.26	
. 19	LOP	EPU	4 16 49.45					63	3.0	84.4	107	90	14.08	14.07	0.01	
. 19	CPX	EPU	4 16 50.55					56	2.9	91.9	100	90	15.18	15.29	-0.11	
. 19	AMR	IPU	4 16 51.05					45	2.8	92.4	145	90	15.68	15.38	0.30	
. 19	BLT	IPD	4 16 50.80					52	2.9	93.6	63	90	15.43	15.57	-0.14	
. 19	KRNA	IPD	4 16 51.29					49	2.8	96.7	39	90	15.92	16.08	-0.16	
. 19	GKV	EPU4	4 16 53.19							105.1	160	90	17.82	17.45	0.37	
. 19	MCY	EPD	4 16 53.59							109.3	115	90	18.22	18.12	0.10	
. 19	JON	IPU	4 16 53.90					47	2.9	111.8	129	90	18.53	18.53	-0.00	
. 19	TNP	IPU	4 16 54.05							112.3	353	90	18.68	18.62	0.06	
. 19	SPRG	IPU	4 16 55.38					59	3.1	120.4	111	90	20.01	19.94	0.07	
. 19	GSM	EPD4	4 16 56.37					37	2.7	124.6	172	90	21.00	20.62	0.38	
. 19	NOP	IPD	4 16 57.60					46	2.9	133.7	142	90	22.23	22.09	0.14	
. 19	APK	IPD	4 16 43.10							158.2	122	53	7.73	25.29	-17.56	
. 19	EPR	IPU	4 17 2.59					74	3.5	168.1	87	53	27.22	26.58	0.64	
. 19	SHRG	EPU	4 17 5.17							182.6	110	53	29.80	28.47	1.33	
. 19	PRN	IPU	4 17 4.60					39	3.0	183.4	78	53	29.23	28.57	0.66	

MAY H = 13 0 0.80 UTC RMS = 0.17 NO = 28 FREE DEPTH SOLUTION  
 22 LAT = 36.991 N ERX = 0.3 ERH = 0.5 AVFM = 3.4 Q = B  
 LONG = 116.040 W ERY = 0.3 GAP = 49 AVXM = GS = B LATHROP WELLS  
 DEPTH = 1.89 KM ERZ = 1.4 NM = GD = B

.	22	CPX	IPU	13 0 2.20					7.1	193	92	1.40	1.52	-0.12	BAD CODA LEN
.	22	BGB	IPU	13 0 3.88			166	3.6	17.5	287	90	3.08	3.20	-0.12	
.	22	SSP	IPD	13 0 4.08			186	3.7	17.5	245	90	3.28	3.20	0.08	
.	22	LCP	IPU	13 0 4.34			166	3.6	19.0	217	90	3.54	3.44	0.09	
.	22	CDH1	IPD	13 0 5.80			32	2.2	28.7	240	90	5.00	5.02	-0.02	
.	22	CDH5	IPD	13 0 5.86			20	1.8	28.7	240	90	5.06	5.02	0.04	
.	22	LSM	IPU	13 0 6.69			208	3.9	34.8	216	90	5.89	6.01	-0.13	
.	22	EPN	IPU	13 0 6.94			176	3.7	35.3	314	90	6.14	6.09	0.04	
.	22	MCY	IPU	13 0 7.02			193	3.8	37.2	169	90	6.22	6.41	-0.19	
.	22	SPRG	IPU	13 0 7.51					38.9	148	90	6.71	6.68	0.03	BAD CODA LEN
.	22	GMR	IPU	13 0 8.27			172	3.8	44.9	32	90	7.47	7.65	-0.18	
.	22	SDH	IPU	13 0 8.55			113	3.4	46.7	215	90	7.75	7.95	-0.20	
.	22	BLT	IPU	13 0 9.42			122	3.5	52.8	351	90	8.62	8.94	-0.32	
.	22	BMT	IPU4	13 0 11.35					54.6	306	90	10.55	9.22	1.32	BAD CODA LEN
.	22	BRO	IPD	13 0 10.45			130	3.6	58.0	244	90	9.65	9.79	-0.14	
.	22	JON	IPU	13 0 11.26			126	3.5	61.5	185	90	10.46	10.35	0.11	
.	22	NMN	IPU	13 0 12.59					70.0	278	90	11.79	11.73	0.06	BAD CODA LEN
.	22	AMR	IPU	13 0 13.73			118	3.5	76.5	210	90	12.93	12.79	0.14	
.	22	FMT	EPD	13 0 13.42			104	3.4	76.6	239	90	12.62	12.81	-0.20	
.	22	EPR	IPU	13 0 14.24					78.4	75	90	13.44	13.10	0.34	BAD CODA LEN
.	22	APK	IPD	13 0 15.31					85.4	151	90	14.51	14.24	0.27	BAD CODA LEN
.	22	SGV	IPU	13 0 15.57					88.3	269	90	14.77	14.72	0.05	BAD CODA LEN
.	22	KRNA	IPD0	13 0 15.74			124	3.6	89.4	340	90	14.94	14.89	0.04	
.	22	CTS	IPD2	13 0 16.89			93	3.4	94.2	320	90	16.09	15.67	0.41	
.	22	SHRG	IPU	13 0 16.50					95.8	124	90	15.70	15.42	-0.23	BAD CODA LEN
.	22	GMN	EPD	13 0 19.79					113.7	288	90	18.99	18.84	0.14	BAD CODA LEN
.	22	GSM	IPD0	13 0 23.64			82	3.4	135.9	213	53	22.84	22.38	0.45	
.	22	MGM	EPU	13 0 23.70					138.6	291	53	22.90	22.74	0.16	BAD CODA LEN
.	22	MZP	EPD0	13 0 24.32					142.7	303	53	23.52	23.27	0.24	BAD CODA LEN
.	22	LCH	EPU4	13 0 25.30					145.4	281	53	24.50	23.62	0.88	BAD CODA LEN

JUN H = 9 4 28.41 UTC RMS = 0.09 NO = 8 FREE DEPTH SOLUTION  
 03 LAT = 36.886 N ERX = 0.5 ERH = 0.6 AVFM = 1.6 Q = C  
 LONG = 116.001 W ERY = 0.4 GAP = 150 AVXM = GS = C LATHROP WELLS  
 DEPTH = 4.81 KM ERZ = 9.7 NM = GD = C

1959 SOUTHERN GREAT BASIN  
LOCAL-EVENT DATA REPORT

1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SFC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TGAL (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	4.44	4.48	-0.04	
. 03	BGB	IPU	9 4 32.95				17	1.7	26.3	310	97	4.54	4.65	-0.12	
. 03	CDH1	EPD	9 4 33.40				17	1.7	28.3	264	97	4.99	4.99	-0.00	
. 03	CDH5	EP 4	9 4 34.09				5	0.6	28.3	264	97	5.68	4.99	0.69	
. 03	GLR	EPU4	9 4 34.10				14	1.5	34.8	358	95	5.69	6.03	-0.34	
. 03		FS	9 4 38.95									10.54	10.56	-0.02	
. 03	EPN	EP 2	9 4 36.50				20	1.9	46.3	322	94	8.09	7.90	0.18	
. 03	GMR	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 H = 19 54 35.79 UTC RMS = 0.20 NO = 13 FREE DEPTH SOLUTION															
. 04 LAT = 37.584 N ERX = 0.7 ERH = 1.0 AVFM = 2.1 Q = C															
LONG = 116.465 W ERY = 0.7 GAP = 97 AVXM = QS = B QUARTZITE MOUNTAIN															
DEPTH = 8.74 KM ERZ = 2.4 NM = QD = C															
.....															
. 04	KRNA	IPD	19 54 39.61				27	2.1	19.8	22	111	3.82	3.79	0.04	
. 04	CTS	IPU	19 54 40.09				16	1.6	23.8	285	107	4.30	4.40	-0.09	
. 04	BLT	IPU	19 54 41.10				25	2.0	32.3	115	103	5.31	5.73	-0.41	
. 04	BMT	IPD0	19 54 41.91				28	2.1	33.9	190	102	6.12	5.99	0.13	
. 04	EPN	IPU	19 54 43.18				27	2.1	43.0	163	100	7.39	7.43	-0.04	
. 04	GLR	IPU0	19 54 46.25				18	1.8	58.3	137	97	10.46	9.90	0.56	
. 04	NMN	IPD0	19 54 46.32				28	2.2	64.0	209	96	10.53	10.83	-0.30	
. 04	BGB	EPD4	19 54 49.11				22	2.0	64.2	161	96	13.32	10.86	2.47	
. 04	GMR	EPD4	19 54 45.27				18	1.9	67.4	114	96	9.48	11.37	-1.89	
. 04	TPU	IPD3	19 54 47.07				17	1.8	72.1	88	96	11.28	12.13	-0.85	
. 04	GMR	EPU0	19 54 48.78						77.1	246	95	12.99	12.94	0.05	
. 04	SGV	IPD0	19 54 49.58				27	2.3	83.7	217	95	13.79	14.01	-0.22	
. 04	GVN	EPD0	19 54 52.60				25	2.3	101.2	230	94	16.81	16.84	-0.03	
. 04	LCH	IPU0	19 54 54.58				19	2.1	111.6	250	94	18.79	18.54	0.25	
. 04	SPRG	EPU	19 54 54.79				25	2.3	114.7	149	53	19.00	18.97	0.04	
. 04	SVP	IPD4	19 54 56.25				20	2.1	118.8	277	53	20.46	19.50	0.97	
.....															
JUN H = 19 43 17.18 UTC RMS = 0.19 NO = 12 FREE DEPTH SOLUTION															
. 06 LAT = 36.888 N ERX = 1.2 ERH = 1.4 AVFM = 1.4 Q = C															
LONG = 115.727 W ERY = 0.6 GAP = 203 AVXM = QS = B MERCURY															
DEPTH = 1.12 KM ERZ = 1.9 NM = QD = D															
.....															
. 06	SPRG	EP	19 43 21.02				28	2.1	22.8	199	38	3.84	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	39.4	264	38	6.88	6.88	0.00	
. 06	GLR	EPD	19 43 24.56				10	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	290	38	8.04	8.20	-0.16	
. 06	GMR	EP 0	19 43 25.97				12	1.5	49.6	356	38	8.79	8.54	0.25	
. 06	CDH1	EPU0	19 43 26.23				11	1.4	52.7	267	38	9.05	9.04	0.01	
. 06	CDH5	EPU4	19 43 32.18				1	-0.7	52.7	267	38	15.00	9.04	5.96	
. 06	JON	EPU	19 43 27.66				21	2.0	60.0	214	38	10.48	10.23	0.25	
. 06	SDH	EPD2	19 43 27.95				10	1.3	60.8	244	38	10.77	10.36	0.41	
	ISU0		19 43 35.50									18.32	18.12	0.19	
.....															
JUN H = 2 8 55.22 UTC RMS = 0.13 NO = 4 FREE DEPTH SOLUTION															
. 07 LAT = 36.923 N ERX = ERH = AVFM = 2.1 Q = C															
LONG = 116.968 W ERY = GAP = 162 AVXM = QS = A CHLORIDE CLIFF															
DEPTH = 22.16 KM ERZ = NM = QD = D															
.....															
. 07	FMT	EPU4	2 9 9.95						35.7	152	121	14.73	7.07	7.66	
. 07	TMO	EPU0	2 9 3.25				23	2.0	41.3	252	117	8.03	7.87	0.16	
.....															
. 07	MCA	IPU	2 9 2.94				21	1.9	41.3	222	117	7.72	7.87	-0.16	
. 07	PGE	EPD4	2 9 5.78				17	1.8	64.3	188	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	EPN	IPU0	2 9 6.62				26	2.2	65.8	61	53	11.40	11.29	0.10	
. 07	LOP	EPU4	2 9 10.25				29	2.3	71.8	96	53	15.03	12.07	2.95	
. 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	18.72	15.00	3.71	
. 07	BLT	IPD4	2 9 13.05				19	2.0	95.1	51	53	17.83	15.10	2.72	
. 07	QSM	EPD4	2 9 10.00				24	2.3	106.6	175	53	14.78	16.60	-1.82	
.....															
JUN H = 12 0 32.82 UTC RMS = 0.03 NO = 7 FREE DEPTH SOLUTION															
. 07 LAT = 36.613 N ERX = 0.2 ERH = 0.2 AVFM = 1.7 Q = B															
LONG = 116.271 W ERY = 0.2 GAP = 156 AVXM = QS = A LATHROP WELLS															
DEPTH = 9.51 KM ERZ = 0.5 NM = QD = C															
.....															
. 07	SDH	IPU	12 0 34.94				16	1.6	7.0	301	141	2.12	2.12	0.00	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PFR (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOUT (SEC)	TAL (SEC)	RES (SEC)	REMARKS
. 07	LSM	IPU2	12 0 35.78					36 2.3	14.0	360	121	2.96	2.99	-0.03	
. 07	JON	IPU	12 0 37.37					13 1.4	24.4	142	109	4.55	4.53	0.02	
. 07	CDH1	EPD	12 0 37.92					13 1.5	27.8	351	106	5.10	5.05	0.05	
. 07	CDH5	EPD4	12 0 41.26						27.8	351	106	8.44	5.05	3.39	
. 07	MCY	IPU	12 0 37.90					26 2.1	28.2	79	106	5.08	5.11	-0.03	
. 07	LCP	EPU3	12 0 37.98					15 1.6	28.3	19	106	5.16	5.14	0.02	
. 07	BRO	EPU	12 0 39.11						35.8	298	103	6.29	6.31	-0.02	
.....															
JUN H = 12 1 41.23 UTC RMS = 0.04 NO = 8 FREE DEPTH SOLUTION															
. 07	LAT = 36.614 N			ERX =	0.2	ERH =	0.3	AVFM =	1.3	Q =	B				
. 07	LONG = 116.262 W			ERY =	0.2	GAP =	153	AVXM =		QS =	A	LATHROP WELLS			
. 07	DEPTH = 7.31 KM			ERZ =	0.8	NM =				QD =	C				
. 07	SDH	IPU	12 1 43.14					9 1.1	7.6	297	130	1.91	1.93	-0.02	
. 07	LSM	IPU0	12 1 44.04					27 2.0	13.8	356	114	2.81	2.80	0.01	
. 07	JON	IPU	12 1 45.63					7 0.9	24.1	144	104	4.40	4.38	0.02	
. 07	MCY	IPU	12 1 46.10					16 1.6	27.4	79	102	4.87	4.90	-0.03	
. 07	CDH1	EPD	12 1 46.20					12 1.4	27.7	350	102	4.97	4.96	0.01	
. 07	LCP	EPD0	12 1 46.30					9 1.1	27.9	18	102	5.07	4.99	0.08	
. 07	BRO	EPD	12 1 47.55					10 1.3	36.4	297	99	6.32	6.34	-0.02	
. 07	SPRG	EPU	12 1 48.33					9 1.2	41.4	78	98	7.10	7.15	-0.05	
.....															
JUN H = 12 21 54.15 UTC RMS = 0.02 NO = 4 FREE DEPTH SOLUTION															
. 07	LAT = 36.612 N			ERX =		ERH =		AVFM =	1.1	Q =	C				
. 07	LONG = 116.259 W			ERY =		GAP =	154	AVXM =		QS =	A	LATHROP WELLS			
. 07	DEPTH = 3.19 KM			ERZ =		NM =				QD =	D				
. 07	SDH	EPD	12 21 55.82					9 1.1	8.0	298	102	1.67	1.68	-0.01	
. 07	LSM	IPD	12 21 56.83					6 0.7	14.2	355	97	2.68	2.67	0.01	
. 07	JON	EPU	12 21 58.37					19 1.8	23.7	144	94	4.22	4.21	0.02	
. 07	MCY	EPU	12 21 58.90					6 0.8	27.1	78	93	4.75	4.77	-0.02	
.....															
JUN H = 11 40 6.68 UTC RMS = 0.17 NO = 8 FREE DEPTH SOLUTION															
. 08	LAT = 37.337 N			ERX =	4.1	ERH =	4.5	AVFM =	2.3	Q =	D				
. 08	LONG = 114.942 W			ERY =	1.8	GAP =	277	AVXM =		QS =	C	DELAMAR MOUNTAINS			
. 08	DEPTH = 4.66 KM			ERZ =	3.3	NM =				QD =	D				
. 08	PRN	IPU	11 40 9.11					25 2.0	12.3	309	105	2.43	2.42	0.01	
. 08	BLT	EPU	11 40 24.22						106.5	277	92	17.54	17.69	-0.15	
. 08	MCY	EPD	11 40 25.68					24 2.3	117.7	230	91	19.00	19.51	-0.51	
. 08		ISD	11 40 41.05									34.37	34.15	0.23	
. 08	LCP	EP	11 40 26.75						121.4	244	91	20.07	20.11	-0.04	VERY E
. 08	EPN	EPD	11 40 27.38						123.3	264	91	20.70	20.42	0.29	
. 08	LSM	EPU	11 40 28.84					35 2.7	135.7	241	53	22.16	22.08	0.08	
. 08	JON	EPD	11 40 30.00						143.6	226	53	23.32	23.11	0.22	
.....															
JUN H = 7 53 32.73 UTC RMS = 0.05 NO = 6 FIXED DEPTH SOLUTION															
. 09	LAT = 37.150 N			ERX =	0.4	ERH =	0.9	AVFM =	2.1	Q =	C	DEPTH CONTROL INADEQUATE			
. 09	LONG = 115.983 W			ERY =	0.8	GAP =	155	AVXM =		QS =	C	MERCURY			
. 09	DEPTH = 5.00 KM			ERZ =	7.0	NM =				QD =	C				
. 09	MCY	IPU	7 53 35.30					44 2.5	13.2	172	105	2.57	2.58	-0.01	
. 09	LCP	IPU	7 53 36.15					31 2.2	18.5	297	101	3.42	3.40	0.02	
. 09	LSM	IPU	7 53 37.40						26.2	260	98	4.67	4.65	0.02	
. 09	SSP	IPU	7 53 37.39					33 2.3	26.5	307	97	4.66	4.70	-0.04	
. 09	HGB	EPD2	7 53 38.58					23 2.0	36.0	323	95	5.85	6.23	-0.38	
. 09	GLR	EPD4	7 53 40.07					16 1.7	46.7	356	94	7.34	7.96	-0.62	
. 09	GPR	EPD	7 53 43.57					16 1.8	64.3	17	93	10.84	10.82	0.02	
. 09	PRN	EPD4	7 53 52.55					20 2.1	108.3	50	92	19.82	17.97	1.85	
. 09	KRNA	EPD4	7 53 52.75					19 2.1	113.3	342	92	20.02	18.79	1.23	
. 09	CTS	EP 0	7 53 52.65						116.0	325	92	19.92	19.24	0.68	
.....															
JUN H = 15 19 5.31 UTC RMS = 0.03 NO = 6 FIXED DEPTH SOLUTION															
. 10	LAT = 37.150 N			ERX =	0.2	ERH =	0.4	AVFM =	1.8	Q =	C	DEPTH CONTROL INADEQUATE			
. 10	LONG = 117.341 W			ERY =	0.4	GAP =	190	AVXM =		QS =	B	MT. JACKSON			
. 10	DEPTH = 5.00 KM			ERZ =	2.9	NM =				QD =	D				
. 10	GMN	IPD	15 19 8.66					12 1.4	18.2	23	101	5.55	3.36	-0.00	
. 10	LCH	IPU	15 19 10.35					17 1.7	28.8	289	97	5.04	5.06	-0.02	
. 10	MGM	IPU	15 19 11.40					15 1.6	35.1	337	96	6.09	6.09	0.01	
. 10	NMN	IPU	15 19 13.30					24 2.1	47.1	99	94	7.99	8.03	-0.04	
. 10	PPK	EP 3	15 19 15.30					11 1.4	58.8	301	93	9.99	9.93	0.06	VERY E
. 10	BMT	EPU4	15 19 15.95						73.2	78	93	10.64	12.27	-1.63	

1980 SOUTHERN GREAT BASIN  
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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	T0US (SEC)	T0AL (SEC)	RES (SEC)	REMARKS
10	BGB	EPU	15 19 21.95				23	2.2	99.8	97	92	16.64	16.59	0.05	
10	GMR	EP 3	15 19 28.88				19	2.2	140.9	82	53	23.57	22.72	0.85	VERY E
.....															
JUN H = 1 17 38.62 UTC RMS = 0.37 NO = 10 FREE DEPTH SOLUTION															
15	LAT =	36.801 N		ERX =	1.4	ERH =	2.2	AVFM =	1.3	Q = C					
15	LONG =	116.042 W		ERY =	1.7	GAP =	125	AVXM =		QS = C					LATHROP WELLS
15	DEPTH =	1.39 KM		ERZ =	3.9	NM =				QD = C					
.....															
15	LOP	IPU	1 17 40.88			13	1.4	12.6	298	38		2.26	2.47	-0.21	
15	CPX	IPU2	1 17 40.62			11	1.3	14.3	354	38		2.00	2.74	-0.74	
15	MCY	EPD	1 17 41.26			18	1.7	17.0	155	38		2.64	3.18	-0.54	
15	ISU		1 17 43.84									5.22	5.57	-0.35	
15	SSP	EPU	1 17 43.20			8	1.0	20.9	311	38		4.58	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	120	38		4.50	4.31	0.19	
15	CDH1	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	SDH	EP	1 17 44.60					31.6	237	38		5.98	5.55	0.44	VERY E
.....															
JUN H = 17 57 11.63 UTC RMS = 0.10 NO = 16 FREE DEPTH SOLUTION															
18	LAT =	36.698 N		ERX =	0.2	ERH =	0.4	AVFM =	2.0	Q = C					
18	LONG =	115.610 W		ERY =	0.3	GAP =	119	AVXM =		QS = B					MERCURY
18	DEPTH =	0.84 KM		ERZ =	4.0	NM =				QD = C					
.....															
18	SPRG	IPU	17 57 14.90			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	SHRG	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	JON	IPD	17 57 20.79			17	1.8	52.6	237	38		9.16	9.08	0.08	
18	LGP	EPU	17 57 20.74			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	64.4	36	38		11.04	11.01	0.04	
18	SDH	EP	17 57 22.85			15	1.7	65.3	265	38		11.22	11.15	0.07	VERY E
18	CDH1	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	GMR	EP	17 57 23.71			20	2.0	72.0	349	38		12.08	12.24	-0.15	
18	PRN	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	104.8	306	38		17.87	17.57	0.31	
18	MTI	EPD4	17 57 30.86									31.07	30.74	0.33	
18	NPN	IPD4	17 57 32.80			23	2.2	112.6	15	38		19.23	18.85	0.39	
18	SGV	EP	17 57 33.65			21	2.2	121.6	29	38		21.17	20.31	0.87	
18						29	2.5	130.8	284	38		22.02	21.79	0.23	
.....															
JUN H = 2 33 21.71 UTC RMS = 0.13 NO = 12 FREE DEPTH SOLUTION															
19	LAT =	36.712 N		ERX =	0.4	ERH =	0.6	AVFM =	1.6	Q = B					
19	LONG =	116.254 W		ERY =	0.5	GAP =	104	AVXM =		QS = A					LATHROP WELLS
19	DEPTH =	1.02 KM		ERZ =	0.8	NM =				QD = B					
.....															
19	LSM	IPU	2 33 22.64			17	1.6	3.3	332	107		0.93	0.92	0.01	
19	SDH	IPD4	2 33 22.80			16	1.6	10.5	225	38		1.09	2.21	-1.11	
19	CDH1	IPU	2 33 24.96			16	1.6	17.4	341	38		3.25	3.32	-0.06	
19	CDH5	EP 4	2 33 26.05			7	0.9	17.4	341	38		4.34	3.32	1.03	VERY E
19	LGP	IPD	2 33 24.94			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	JON	IPU	2 33 27.35			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	280	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	FMT	EP	2 33 30.03			11	1.4	47.6	260	38		8.32	8.22	0.10	VERY E
19	NMN	EP 4	2 33 34.50			19	1.9	64.8	309	38		12.79	11.03	1.76	VERY E
19	APK	EP	2 33 34.63			14	1.7	74.9	126	38		12.92	12.67	0.25	VERY E
.....															
JUN H = 4 4 8.48 UTC RMS = 0.09 NO = 6 FREE DEPTH SOLUTION															
19	LAT =	36.526 N		ERX =	0.2	ERH =	0.4	AVFM =	1.4	Q = C					
19	LONG =	116.372 W		ERY =	0.3	GAP =	107	AVXM =		QS = B					LATHROP WELLS
19	DEPTH =	6.27 KM		ERZ =	3.7	NM =				QD = C					
.....															
19	SDH	IPU3	4 4 10.74			11	1.3	13.6	13	110		2.26	2.69	-0.44	
19	AMR	EP 0	4 4 11.64			16	1.6	16.9	213	106		3.16	3.21	-0.06	VERY E
19	JON	IPU	4 4 13.18			11	1.3	26.0	112	100		4.70	4.64	0.06	

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1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TDBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 19	BPO	EP 0	4 4 14.58					9 1.2	34.7	319	98	6.10	6.04	0.06	VERY E
. 19	CDH1	IPU	4 4 14.93					11 1.3	37.4	8	97	6.45	6.48	-0.03	
. 19	MCY	IPD2	4 4 15.26					18 1.8	39.6	68	97	6.78	6.84	-0.06	
. 19	SPRG	EPD4	4 4 17.90					9 1.2	53.7	70	95	9.42	9.11	0.30	
.....															
JUN H = 20 40 59.00 UTC RMS = 0.06 NO = 6 FREE DEPTH SOLUTION															
. 20 LAT = 36.673 N ERX = 0.4 EPH = 1.5 AVFM = 1.3 Q = C															
. LONG = 116.416 W ERY = 1.5 GAP = 184 AVXM = QS = B LATHROP WELLS															
. DEPTH = 6.28 KM ERZ = 4.5 NM = QD = D															
.....															
. 20	SDH	IPU	20 40 59.82					12 1.3	7.6	114	125	1.82	1.82	-0.01	
. 20	LSM	IPD	20 41 0.96						14.8	60	109	2.96	2.88	0.08	
. 20	BRO	IPU	20 41 1.91					8 1.0	21.2	298	103	3.91	3.88	0.02	
. 20	CDH1	IPD	20 41 2.01					10 1.2	22.5	23	102	4.01	4.09	-0.09	
. 20	LCP	EPD	20 41 3.28					13 1.5	29.9	48	99	5.28	5.27	0.01	
. 20	SSP	IPU2	20 41 3.87					15 1.6	33.0	32	98	5.87	5.77	0.09	
.....															
JUL H = 2 52 10.37 UTC RMS = 0.10 NO = 7 FREE DEPTH SOLUTION															
. 03 LAT = 36.868 N ERX = 1.0 ERH = 1.1 AVFM = 1.1 Q = C															
. LONG = 116.181 W ERY = 0.5 GAP = 152 AVXM = QS = B LATHROP WELLS															
. DEPTH = 8.46 KM ERZ = 4.7 NM = QD = C															
.....															
. 03	CDH5	EPU	2 52 12.91					4 0.4	12.2	266	121	2.54	2.65	-0.11	
. 03	CDH1	IPD	2 52 13.05					10 1.2	12.2	266	121	2.68	2.65	0.03	
. 03	LSM	EP	2 52 13.76						16.5	209	114	3.39	3.27	0.12	very e
. 03	BGB	EPD	2 52 14.07					10 1.2	19.3	348	111	3.70	3.68	0.07	
. 03	SDH	EP	2 52 15.40						28.4	210	104	5.03	5.11	-0.08	very e
. 03	MCY	IPU	2 52 15.65					13 1.5	30.1	140	103	5.28	5.38	-0.10	
. 03	JON	EP	2 52 18.79						48.1	172	98	8.42	8.25	0.17	very e
.....															
JUL H = 21 15 42.35 UTC RMS = 0.15 NO = 10 FREE DEPTH SOLUTION															
. 03 LAT = 36.319 N ERX = 2.5 ERH = 3.1 AVFM = 2.3 Q = D															
. LONG = 114.943 W ERY = 2.0 GAP = 252 AVXM = QS = C HOOVER DAM															
. DEPTH = 0.07 KM ERZ = 11.8 NM = QD = D															
.....															
. 03	MCY	EPD	21 15 59.07					31 2.5	98.9	293	38	16.72	16.78	-0.05	
. 03	JON	EP 2	21 16 0.42						104.9	277	38	18.07	17.75	0.32	
. 03	NOP	FP	21 16 1.02					23 2.2	110.9	259	38	18.67	18.71	-0.04	VERY E
. 03	PRN	EPU	21 16 2.78					26 2.4	121.2	355	38	20.43	20.39	0.04	
. 03	LCP	IPD4	21 16 4.83					24 2.3	124.7	298	38	22.48	20.96	1.52	
. 03	SDH	EP	21 16 4.10					21 2.2	130.2	286	38	21.75	21.86	-0.10	VERY E
. 03	GMR	EPD	21 16 4.86					20 2.2	134.7	327	38	22.51	22.60	-0.09	
. 03	DLM	EPD	21 16 6.07					22 2.3	144.0	7	30	23.72	23.83	-0.10	
. 03	NPN	EPD	21 16 6.63					22 2.3	148.0	0	30	24.28	24.35	-0.07	
. 03	MTI	EPD	21 16 7.63					24 2.4	153.5	349	30	25.28	25.07	0.42	
. 03	BLT	EP 4	21 16 13.06					8 1.5	165.4	320	30	30.71	26.61	4.10	VERY E
. 03	SRG	EPD2	21 16 10.71					32 2.7	173.9	356	30	28.36	27.71	0.66	
.....															
JUL H = 7 3 2.98 UTC RMS = 0.09 NO = 12 FREE DEPTH SOLUTION															
. 04 LAT = 36.695 N ERX = 0.3 ERH = 0.4 AVFM = 1.4 Q = A															
. LONG = 116.278 W ERY = 0.3 GAP = 68 AVXM = QS = A LATHROP WELLS															
. DEPTH = 5.84 KM ERZ = 1.2 NM = QD = A															
.....															
. 04	LSM	IPD	7 3 4.54					15 1.5	5.0	6	135	1.56	1.45	0.11	
. 04	SDH	IPD	7 3 4.69					13 1.4	7.7	225	122	1.71	1.80	-0.09	
. 04	CDH1	IPU	7 3 6.43					12 1.4	18.7	349	103	3.45	3.48	-0.03	
. 04	CDH5	EP	7 3 6.35					10 1.2	18.7	349	103	3.37	3.48	-0.11	
. 04	LCP	IPD	7 3 6.63					15 1.6	20.3	29	102	3.65	3.72	-0.07	
. 04	SSP	EPD	7 3 7.47					18 1.7	26.1	12	99	4.49	4.65	-0.16	
. 04	MCY	IPU	7 3 8.14					21 1.9	28.4	97	99	5.16	5.03	0.13	
. 04	BRO	EPU	7 3 8.52					8 1.0	32.0	284	98	5.54	5.54	-0.05	
. 04	ISU		7 3 12.89									9.91	9.79	0.12	
. 04	JCN	IPU	7 3 8.68					11 1.3	32.3	151	98	5.70	5.65	0.05	
. 04	AMR	EP	7 3 9.38					11 1.3	37.4	208	97	6.40	6.46	-0.07	VERY E
. 04	BGB	EPD	7 3 9.56					11 1.3	38.4	7	96	6.58	6.63	0.00	
.....															
JUL H = 8 21 39.57 UTC RMS = 0.17 NO = 14 FREE DEPTH SOLUTION															
. 04 LAT = 36.808 N ERX = 0.5 ERH = 0.7 AVFM = 1.7 Q = C															
. LONG = 116.688 W ERY = 0.5 GAP = 98 AVXM = QS = C CHLORIDE CLIFF															
. DEPTH = 2.40 KM ERZ = 15.4 NM = QD = B															
.....															
. 04	BRO	IPU	8 21 41.09						7.5	132	96	1.52	1.58	-0.06	
. 04	FMT	IPU	8 21 43.17						20.4	204	92	3.60	3.67	0.03	

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. 04	NMN	IPU	8 21 44.91					17	1.7	32.5	339	91	5.34	5.64	-0.30	.
. 04	CDH1	IPD	8 21 45.17							33.6	80	91	5.60	5.81	-0.21	.
. 04	CDH5	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	36.1	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	54.5	15	90	9.98	9.22	0.36	.
. 04	EPN	EPU	8 21 49.23					19	1.9	55.5	36	90	9.66	9.38	0.28	.
. 04	MCY	IPU	8 21 50.78					19	1.9	66.8	104	90	11.21	11.22	-0.01	.
.....																
JUL H = 13 26 8.26 UTC RMS = 0.23 NO = 6 FREE DEPTH SOLUTION																
. 05	LAT = 36.764 N			ERX = 1.5	ERH = 2.8	AVFM = 1.6	Q = C									
. 05	LONG = 116.627 W			ERY = 2.4	GAP = 106	AVXM =	QS = C	CHLORIDE CLIFF								
. 05	DEPTH = 7.77 KM			ERZ = 3.0	NM =		QD = B									
.....																
. 05	BRO	IPU	13 26 9.70					13	1.4	0.2	141	178	1.44	1.43	0.01	.
. 05	FMT	IPD	13 26 11.68					10	1.2	19.4	224	108	3.42	3.66	-0.14	.
. 05	SDH	EPD4	13 26 23.06							29.0	117	102	14.80	5.17	9.63	.
. 05	CDH1	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	NMN	IPU4	13 26 19.26					22	2.0	39.0	334	99	11.00	6.78	4.22	.
. 05	LOP	IPU2	13 26 14.03					16	1.7	42.2	76	98	5.77	7.29	-1.52	.
. 05	SGV	EP	13 26 15.89					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	50	98	7.86	8.02	-0.11	.
. 05	CPX	IPU4	13 26 14.22					11	1.4	53.9	70	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	-3.79	.
. 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	69.0	292	95	9.40	11.61	-2.21	.
. 05	NCP	EPU4	13 26 26.81							82.4	149	94	18.55	13.79	4.76	.
.....																
JUL H = 15 13 14.81 UTC RMS = 0.16 NO = 6 FREE DEPTH SOLUTION																
. 07	LAT = 36.741 N			ERX = 4.7	ERH = 5.0	AVFM = 1.6	Q = D									
. 07	LONG = 115.821 W			ERY = 1.7	GAP = 192	AVXM =	QS = D	MERCURY								
. 07	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	3.10	0.04	.
. 07	LOP	EP	15 13 20.97					14	1.5	33.4	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	JON	EPD	15 13 22.05							41.9	217	100	7.24	7.25	-0.01	.
. 07	CDH1	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	49.0	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	MTI	IPD	15 13 33.71					18	2.0	114.7	25	53	18.90	18.98	0.12	.
.....																
JUL H = 0 36 58.89 UTC RMS = 0.32 NO = 6 FREE DEPTH SOLUTION																
. 09	LAT = 36.861 N			ERX = 15.6	ERH = 22.9	AVFM = 2.6	Q = D									
. 09	LONG = 118.420 W			ERY = 16.8	GAP = 335	AVXM =	QS = D									
. 09	DEPTH = 0.72 KM			ERZ = 9.9	NM =		QD = D									
.....																
. 09	TMD	IPU	0 37 14.49					21	2.1	90.5	94	38	15.60	15.28	0.32	.
. 09	MCA	EP	0 37 16.00					22	2.2	104.4	103	38	17.11	17.53	-0.42	.
. 09	ESD	0 37 29.45											30.56	30.68	-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 27.29					34	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	30.96	30.48	0.48	.
.....																
JUL H = 2 13 48.05 UTC RMS = 0.48 NO = 19 FREE DEPTH SOLUTION																
. 09	LAT = 37.252 N			ERX = 2.3	ERH = 3.2	AVFM = 2.9	Q = D									
. 09	LONG = 114.999 W			ERY = 2.3	GAP = 189	AVXM =	QS = C	DELMAR MOUNTAINS								
. 09	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	HPN	IPD	2 13 55.74					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	MTI	IPU	2 13 56.57					64	2.9	53.0	333	93	8.52	8.98	-0.26	.
. 09	GMR	IPU	2 13 58.71					49	2.8	69.1	278	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	GLR	EPD	2 14 2.46					79	3.2	90.6	266	92	14.41	15.10	-0.54	.
. 09	WRN	IPU4	2 14 4.95							96.3	327	92	16.90	16.02	0.88	.
. 09	QCS	IPU	2 14 5.61					29	2.4	99.3	305	92	17.56	16.51	1.05	.
. 09	FLT	IPD	2 14 5.70					39	2.7	103.2	283	92	17.65	17.15	0.50	.
. 09	MCY	IPU	2 14 4.96					71	3.2	107.9	233	92	16.91	17.91	-1.00	.
. 09	FCB	IPU	2 14 6.48					48	2.7	111.8	258	91	18.63	18.55	0.13	.

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. 09	LCP	IPU	2 14 7.22					42 2.8	112.9	247	91	19.17	18.72	0.45	
. 09	SSP	IPU	2 14 7.35					47 2.9	114.3	251	91	19.30	18.96	0.34	
. 09	FDN	IPD	2 14 8.16					67 3.2	117.7	268	91	20.11	19.51	0.60	
. 09	CDH1	IPD	2 14 8.64						125.0	250	91	20.79	20.70	0.09	
. 09	LSM	IPD	2 14 9.18					54 3.0	126.8	243	53	21.13	20.94	0.19	
. 09	JCN	EPD	2 14 9.60					34 2.7	133.5	228	53	21.55	21.82	-0.27	
. 09	KRNA	IPD	2 14 9.89					45 2.9	134.1	294	53	21.84	21.89	-0.05	
. 09	NCP	IPU	2 14 14.12					35 2.8	161.8	220	53	26.07	25.49	0.58	

JUL H = 15 5 50.64 UTC RMS = 0.10 NO = 6 FREE DEPTH SOLUTION  
 . 09 LAT = 36.848 N ERX = 1.1 ERH = 1.4 AVFM = 1.4 Q = B  
 . LONG = 116.178 W ERY = 0.9 GAP = 81 AVXM = QS = B LATHROP WELLS  
 . DEPTH = 11.91 KM ERZ = 1.9 NM = QD = A

. 09	LCP	IPD	15 5 52.79					16 1.5	1.2	56	174	2.15	2.12	0.03	
. 09	SSP	IPU	15 5 53.26					15 1.5	9.2	337	140	2.62	2.65	-0.03	
. 09	CDH1	IPD	15 5 53.89					8 1.0	12.5	276	131	3.25	3.02	0.23	
. 09	LSM	EPD	15 5 53.77					14 1.5	14.7	215	127	3.13	3.30	-0.17	
. 09	BGB	FPU	15 5 54.76						21.5	348	117	4.12	4.24	-0.07	
. 09	MCY	EPD	15 5 55.91					17 1.7	28.3	137	111	5.27	5.26	0.01	

JUL H = 13 22 4.54 UTC RMS = 0.22 NO = 23 FIXED DEPTH SOLUTION  
 . 11 LAT = 36.741 N ERX = 0.5 ERH = 0.7 AVFM = 2.1 Q = B  
 . LONG = 116.280 W ERY = 0.5 GAP = 59 AVXM = QS = B DEPTH CONTROL INADEQUATE  
 . DEPTH = 5.00 KM ERZ = 1.2 NM = QD = A LATHROP WELLS

. 11	LSM	IPD	13 22 5.96					44 2.4	0.7	105	170	1.42	0.99	0.42	
. 11	SDH	IPU	13 22 6.86					19 1.7	11.8	206	107	2.32	2.35	-0.03	
. 11	CDH5	EPD3	13 22 6.93					13 1.4	13.7	346	105	2.39	2.65	-0.26	VERY E
. 11	CDH1	IPU	13 22 6.97					29 2.1	13.7	346	105	2.43	2.65	-0.22	
. 11	LCP	IPU	13 22 7.51					36 2.3	16.1	38	103	2.97	3.03	-0.06	
. 11	SSP	IPD	13 22 8.10					41 2.4	21.2	15	99	3.56	3.84	-0.28	
. 11	MCY	FPU	13 22 9.77					47 2.6	29.7	107	97	5.23	5.21	0.01	
. 11	BRO	EPU	13 22 9.65					18 1.7	30.9	275	96	5.11	5.41	-0.31	VERY E
. 11	BGB	IPD	13 22 10.10					22 1.9	33.3	8	96	5.56	5.79	-0.19	VERY E
. 11	JCN	IPU	13 22 10.90					20 1.9	36.9	155	95	6.36	6.38	-0.03	
. 11	SPRG	IPU	13 22 11.64					37 2.4	42.4	97	95	7.10	7.26	-0.16	
. 11	FMT	FPU	13 22 12.08					15 1.6	46.0	256	94	7.54	7.85	-0.21	VERY E
. 11	GLR	EP	13 22 14.35					14 1.6	56.0	25	93	9.81	9.47	0.48	VERY E
. 11	NMN	IPD	13 22 14.76					38 2.5	61.1	308	93	10.22	10.30	-0.08	
. 11	BMT	EPU	13 22 15.90					38 2.5	64.3	339	93	11.36	10.83	0.13	
. 11	SGV	IPU	13 22 16.52					34 2.4	72.2	292	93	11.98	12.11	-0.13	
. 11	APK	IPU	13 22 17.83					33 2.4	78.6	126	92	13.29	13.15	0.14	
. 11	GMR	EPD	13 22 18.07					12 1.6	79.9	35	92	13.53	13.36	0.17	VERY E
. 11	PGE	FPD	13 22 18.53						82.8	238	92	13.99	13.83	0.16	VERY E
. 11	TMO	EPU	13 22 21.70						101.0	274	92	17.16	16.78	0.37	
. 11	SHRG	EPD	13 22 21.86					25 2.3	104.0	105	92	17.32	17.28	0.09	
. 11	MGM	EPD	13 22 26.57					26 2.4	133.2	306	53	22.03	21.73	0.30	
. 11	LCH	IPD	13 22 26.62					27 2.5	133.5	294	53	22.08	21.77	0.31	
. 11	MZP	IPD4	13 22 28.65					26 2.5	144.7	317	53	24.11	23.22	1.07	

JUL H = 13 26 9.66 UTC RMS = 0.08 NO = 7 FREE DEPTH SOLUTION  
 . 11 LAT = 36.756 N ERX = 0.5 ERH = 0.7 AVFM = 1.2 Q = A  
 . LONG = 116.282 W ERY = 0.5 GAP = 73 AVXM = QS = A LATHROP WELLS  
 . DEPTH = 8.37 KM ERZ = 1.2 NM = QD = A

. 11	LSM	IPD	13 26 11.24					15 1.5	2.1	153	165	1.58	1.58	0.00	
. 11	CDH5	EPU	13 26 12.20					5 0.6	12.0	345	121	2.54	2.62	-0.08	
. 11	CDH1	IPU	13 26 12.22					13 1.4	12.0	345	121	2.56	2.62	-0.06	
. 11	SDH	EPU	13 26 12.55						13.2	202	119	2.89	2.78	0.11	
. 11	LOP	IPD	13 26 12.95					15 1.5	15.0	43	116	3.19	3.04	0.15	
. 11	SSP	IPU4	13 26 15.24						19.6	17	110	5.58	3.74	1.84	
. 11	MCY	IPU	13 26 15.00					12 1.4	30.5	110	103	5.34	5.43	-0.09	
. 11	BRO	EP	13 26 15.09					8 1.0	30.6	271	103	5.43	5.45	-0.02	
. 11	JON	EP 4	13 26 21.25						38.5	155	100	11.59	6.72	4.87	

JUL H = 13 37 58.35 UTC RMS = 0.25 NO = 17 FREE DEPTH SOLUTION  
 . 11 LAT = 36.752 N ERX = 0.5 ERH = 0.8 AVFM = 1.7 Q = B  
 . LONG = 116.273 W ERY = 0.6 GAP = 66 AVXM = QS = B LATHROP WELLS  
 . DEPTH = 7.14 KM ERZ = 1.7 NM = QD = A

. 11	LSM	IPD	13 37 59.90					39 2.3	1.5	174	167	1.55	1.36	0.19	
. 11	CDH1	IPU	13 38 0.80					16 1.6	12.6	342	115	2.45	2.61	-0.15	
. 11	CDH5	EP 3	13 38 0.77					4 0.4	12.6	342	115	2.42	2.61	-0.18	VERY
. 11	ISU		13 38 2.66									4.31	4.56	-0.25	

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. 11	SDH	IPD	13 38	0.79				14	1.5	13.2	206	114	2.44	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	3.70	-0.49	.
. 11	MCY	IPU	13 38	3.63				33	2.3	29.6	110	101	5.28	5.25	0.04	.
. 11	BRO	EPD	13 38	3.61						31.4	272	100	5.26	5.54	-0.28	.
.	ISU		13 38	8.40									10.05	9.70	0.36	.
. 11	BGB	IPU	13 38	4.03				9	1.2	32.0	7	100	5.68	5.63	0.11	.
. 11	JCN	IPU	13 38	4.83				14	1.6	37.9	156	98	6.48	6.58	-0.09	.
. 11	SPRG	EPD	13 38	5.53				14	1.6	42.0	99	98	7.18	7.24	-0.06	.
.	ESD		13 38	11.39									13.04	12.66	0.38	.
. 11	FMT	EPD4	13 38	12.33						46.9	255	97	13.98	8.02	6.06	.
. 11	NMN	EP	13 38	8.77				20	1.9	60.7	307	95	10.42	10.27	0.16	.
. 11	BMT	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			ERX =	0.6	ERH =	0.8	AVFM =	1.3	Q = A		LATHROP WELLS				
. 11	LONG = 116.281 W			ERY =	0.5	GAP =	73	AVXM =		QS = A						
. 11	DEPTH = 7.75 KM			ERZ =	1.3	NM =				QD = A						
.....																
. 11	LSM	IPD	14 53	3.13				29	2.1	1.7	151	167	1.47	1.46	0.01	.
. 11	CDH5	EP 3	14 53	4.15				5	0.6	12.5	345	118	2.49	2.63	-0.14	.
. 11	CDH1	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						20.0	16	108	0.77	3.76	-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	BGB	EPD	14 53	7.42				16	1.7	32.1	9	101	5.76	5.66	0.14	.
. 11	JCN	EP 4	14 53	10.55				5	0.7	38.1	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 = 37.698 N			FRX =	0.6	ERH =	0.9	AVFM =	2.2	Q = C		HIKO				
. 11	LONG = 115.041 W			ERY =	0.7	GAP =	117	AVXM =		QS = B						
. 11	DEPTH = 0.51 KM			ERZ =	1.5	NM =				QD = C						
.....																
. 11	NPN	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	PRN	IPD	15 10	27.48				28	2.1	32.3	181	38	5.71	5.85	-0.13	.
. 11	IPU	EPD	15 10	30.99				16	1.7	54.6	259	38	9.22	9.47	-0.25	.
. 11	BLT	EPD	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	.
.	ESD4		15 10	55.42									33.65	34.69	-1.04	.
. 11	SPRG	EP 4	15 10	44.60				24	2.3	130.6	211	38	22.83	21.84	1.00	.
. 11	LCP	EP 4	15 10	45.53				25	2.4	136.9	227	30	23.76	22.80	0.96	NOISY
.....																
. 11	BMT	EPD4	15 10	47.79				29	2.5	139.7	251	30	26.02	23.17	2.45	VERY E
. 11	MCY	EPD4	15 10	46.17				39	2.8	141.1	215	30	24.40	23.35	1.06	.
. 11	LSM	EPD	15 10	47.42				39	2.8	152.5	226	30	25.65	24.83	0.82	NOISY
.....																
JUL H = 17 10 19.80 UTC RMS = 0.15 NO = 19 FIXED DEPTH SOLUTION																
. 12	LAT = 36.696 N			ERX =	0.4	ERH =	0.5	AVFM =	2.0	Q = B		DEPTH CONTROL INADEQUATE				
. 12	LONG = 116.284 W			ERY =	0.3	GAP =	58	AVXM =		QS = B		LATHROP WELLS				
. 12	DEPTH = 5.00 KM			ERZ =	1.5	NM =				QD = A						
.....																
. 12	LSM	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	CDH1	IPU	17 10	23.04				34	2.3	18.4	351	101	3.24	3.40	-0.16	.
. 12	CDH5	EP	17 10	23.38				17	1.7	18.4	351	101	3.58	3.40	0.18	.
. 12	LOP	IPD	17 10	23.36				21	1.8	20.4	31	100	3.56	3.71	-0.15	.
. 12	SSP	IPD	17 10	24.29				18	1.7	26.0	13	98	4.49	4.62	-0.13	.
. 12	MCY	IPU	17 10	24.87				28	2.1	29.1	98	97	5.07	5.11	-0.04	.
. 12	BRO	IPU	17 10	25.23				25	2.0	31.3	284	96	5.43	5.48	-0.05	.
. 12	JON	IPU	17 10	25.41				12	1.4	32.8	150	96	5.61	5.71	-0.10	.
. 12	AMR	EPD	17 10	26.16						37.3	207	95	6.36	6.44	-0.07	.
. 12	BGB	IPD	17 10	26.22				28	2.2	38.2	8	95	6.42	6.59	-0.12	.
. 12	SPRG	IPU	17 10	26.97				29	2.2	42.5	90	95	7.17	7.28	-0.10	.
. 12	FMT	EPD	17 10	27.61				26	2.1	44.6	262	94	7.81	7.63	0.28	.
. 12	GLR	EPD	17 10	30.23				17	1.8	60.7	23	93	10.43	10.23	0.35	.
. 12	NMN	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	10.80	-0.05	.
. 12	GMV	EP 4	17 10	31.89				11	1.4	66.3	211	93	12.09	11.15	0.84	.
. 12	SGV	EPD	17 10	32.30				32	2.4	73.9	295	93	12.50	12.38	0.13	.



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. 12	APK	EPD	17 10 32.82					19 2.0	76.1	123	93	13.02	12.75	0.28	.
. 12	GMR	EPD	17 10 34.02					19 2.0	84.2	33	92	14.22	14.06	0.16	.
. 12	TPU	FPO4	17 10 39.80					25 2.3	115.5	24	92	20.00	19.16	0.85	.
. 12	PRN	FPU3	17 10 42.82					33 2.6	135.1	54	53	23.02	21.98	1.04	.
.....															
JUL H = 13 58 20.82 UTC RMS = 0.35 NO = 11 FREE DEPTH SOLUTION															
. 13 LAT = 37.399 N ERX = 1.9 ERH = 2.5 AVFM = 2.4 Q = C ALAMO															
. LONG = 115.197 W FRY = 1.7 GAP = 146 AVXM = QS = C															
. DEPTH = 3.81 KM ERZ = 20.4 NM = QD = C															
.....															
. 13	PRN	IPD	13 58 23.14					36 2.3	13.0	86	100	2.32	2.50	-0.19	.
. 13	MTI	EPD	13 58 25.75					23 2.0	31.5	348	94	4.93	5.48	-0.36	.
. 13	NPN	IPU	13 58 27.30					21 1.9	36.3	39	93	6.48	6.26	0.21	.
. 13	DLM	EP	13 58 29.24						46.5	61	93	8.42	7.92	0.49	.
. 13	GMR	EP 4	13 58 28.45					15 1.7	51.4	262	92	7.63	8.72	-1.09	.
. 13	SRG	EPD	13 58 30.13					28 2.2	54.8	12	92	9.31	9.27	0.04	.
. 13	GLR	EPD	13 58 32.99						76.1	253	92	12.17	12.74	-0.43	.
. 13	BLT	EP	13 58 35.32					35 2.5	83.4	275	91	14.50	13.92	0.57	.
. 13	BGB	EP 4	13 58 38.63						100.0	246	91	17.81	16.63	1.23	.
. 13	EPN	FPU	13 58 38.33					47 2.8	102.0	258	91	17.51	16.96	0.54	.
. 13	SSP	IPD4	13 58 39.40					32 2.5	104.9	240	91	18.58	17.43	1.14	.
. 13	LOP	IPU4	13 58 39.67					29 2.4	105.4	235	91	18.85	17.52	1.33	.
. 13	MCY	EPD4	13 58 37.53					47 2.8	106.5	220	91	16.71	17.70	-0.99	.
. 13	KRNA	EPD	13 58 39.13						111.6	290	90	18.31	18.49	-0.19	.
. 13		ISD4	13 58 52.04									31.22	32.36	-1.14	.
. 13	CDH1	EP	13 58 40.68						116.2	239	90	19.86	19.25	0.60	.
. 13	LSM	EPD	13 58 40.40					46 2.9	120.5	233	90	19.58	19.94	-0.36	.
.....															
JUL H = 16 2 10.52 UTC RMS = 0.16 NO = 17 FREE DEPTH SOLUTION															
. 13 LAT = 36.799 N ERX = 0.7 ERH = 0.8 AVFM = 1.9 Q = C															
. LONG = 115.937 W ERY = 0.5 GAP = 172 AVXM = QS = B MERCURY															
. DEPTH = 7.57 KM ERZ = 3.5 NM = QD = C															
.....															
. 13	MCY	IPD	16 2 13.57						15.4	188	112	3.05	3.05	0.01	.
. 13	LOP	IPU	16 2 14.51					39 2.4	21.4	287	106	3.99	3.97	0.02	.
. 13	SSP	IPU	16 2 15.65					31 2.2	28.7	299	102	5.13	5.12	0.02	.
. 13	LSM	EPD	16 2 15.76					44 2.5	30.6	257	101	5.24	5.42	-0.18	.
. 13	CDH5	IPU	16 2 16.40					7 0.9	34.6	281	100	5.88	6.06	-0.18	.
.....															
. 13	CDH1	IPD	16 2 16.51						34.6	281	100	5.99	6.06	-0.07	.
. 13	BGB	IPU	16 2 16.85					13 1.5	37.0	316	99	6.33	6.45	-0.07	.
. 13	SDH	EPD	16 2 17.47					31 2.3	39.7	245	99	6.95	6.88	0.08	.
. 13	JON	EPD	16 2 18.07					23 2.0	42.5	200	98	7.55	7.34	0.22	.
. 13	GLR	IPD	16 2 18.00					10 1.3	45.0	351	98	7.48	7.73	-0.10	.
. 13	EPN	IPD	16 2 20.43					30 2.3	57.5	323	96	9.91	9.75	0.17	.
. 13	GMR	EP	16 2 20.76						61.1	14	96	10.24	10.34	-0.10	.
. 13	BRO	EP	16 2 21.05					11 1.4	61.5	266	96	10.53	10.40	0.13	.
. 13	BLT	EPD	16 2 22.85					23 2.1	75.6	347	95	12.33	12.68	-0.34	.
. 13		ISD4	16 2 33.35									22.83	22.18	0.65	.
. 13	NOP	EPD	16 2 23.34					24 2.2	76.9	195	94	12.82	12.90	-0.07	.
. 13		ISU2	16 2 32.60									22.08	22.57	-0.49	.
. 13	TPU	EP	16 2 26.55						93.0	16	94	16.03	15.51	0.53	.
.....															
JUL H = 16 51 6.91 UTC RMS = 0.00 NO = 4 FREE DEPTH SOLUTION															
. 13 LAT = 36.763 N ERX = ERH = AVFM = 2.0 Q = C															
. LONG = 115.957 W ERY = GAP = 234 AVXM = QS = A MERCURY															
. DEPTH = 20.21 KM ERZ = NM = QD = D															
.....															
. 13	MCY	IPU	16 51 10.86					24 1.9	11.2	182	150	3.95	3.95	-0.00	.
. 13	LOP	IPU	16 51 11.90					20 1.8	21.3	298	132	4.99	4.99	0.00	.
. 13	LSM	EPD	16 51 12.78					29 2.2	28.2	265	124	5.87	5.87	-0.00	.
. 13	SSP	IPU	16 51 12.95						29.4	308	123	6.04	6.04	0.00	.
.....															
JUL H = 2 18 23.08 UTC RMS = 0.03 NO = 3 FIXED DEPTH SOLUTION															
. 14 LAT = 36.780 N ERX = ERH = AVFM = 1.5 Q = C DEPTH CONTROL INADEQUATE															
. LONG = 115.964 W ERY = GAP = 245 AVXM = QS = A MERCURY															
. DEPTH = 5.00 KM ERZ = NM = QD = D															
.....															
. 14	MCY	IPU	2 18 25.65					16 1.6	13.1	179	106	2.57	2.56	0.01	.
. 14	LOP	IPU	2 18 26.75					10 1.2	20.0	294	100	3.67	3.65	0.02	.
. 14	LSM	EPD	2 18 27.94					15 1.6	27.9	261	97	4.86	4.92	-0.05	.
.....															
JUL H = 2 51 48.27 UTC RMS = 0.18 NO = 11 FREE DEPTH SOLUTION															

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14 LAT = 36.803 N ERX = 1.3 ERH = 1.5 AVFM = 1.8 Q = D 14 LONG = 115.940 W ERY = 0.7 GAP = 196 AVXM = QS = C MERCURY 14 DEPTH = 6.70 KM ERZ = 6.2 NM = QD = D															
14	MCY	IPD	2 51 51.34				38	2.3	15.8	187	109	3.07	3.06	0.01	
14	LOP	IPU	2 51 52.27				27	2.1	21.1	286	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	2.4	30.5	256	100	4.89	5.37	-0.48	
14	CDH5	IPU	2 51 54.16				6	0.8	34.3	281	99	5.89	5.99	-0.09	
14	CDH1	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	6.28	6.35	-0.02	
14	SDH	EPD	2 51 55.60				22	2.0	39.6	244	97	7.33	6.85	0.48	
14	JON	EP	2 51 55.75				19	1.8	42.9	200	97	7.48	7.37	0.11	
14	GLR	EP	2 51 55.60						44.5	351	97	7.33	7.64	-0.15	
14	EPN	EPD	2 51 57.96				30	2.3	57.0	323	95	9.69	9.65	0.04	
14	BRO	EP	2 51 58.80				13	1.6	61.3	266	95	10.53	10.36	0.18	
JUL H = 2 57 15.16 UTC RMS = 0.02 NO = 4 FREE DEPTH SOLUTION 14 LAT = 36.753 N ERX = 2.4 ERH = AVFM = 1.8 Q = C 14 LONG = 115.965 W ERY = GAP = 229 AVXM = QS = A MERCURY 14 DEPTH = 23.29 KM ERZ = NM = QD = D															
14	MCY	IPD	2 57 19.46				23	1.9	10.2	179	156	4.30	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	EPD	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 ERH = 2.6 AVFM = 2.1 Q = D 14 LONG = 116.199 W ERY = 1.0 GAP = 200 AVXM = QS = C SILENT CANYON - YUCCA FLAT 14 DEPTH = 17.01 KM ERZ = 3.8 NM = QD = D															
14	EPN	IPU	12 4 33.21				40	2.4	16.2	317	135	4.02	4.03	-0.01	
14	SSP	EPD	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	28.3	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	EPD	12 4 38.66				22	2.0	53.8	157	106	9.47	9.46	0.01	
JUL H = 12 12 42.13 UTC RMS = 0.06 NO = 9 FREE DEPTH SOLUTION 14 LAT = 37.094 N ERX = 0.3 ERH = 0.4 AVFM = 1.7 Q = C 14 LONG = 116.188 W ERY = 0.2 GAP = 108 AVXM = QS = C SILENT CANYON - YUCCA FLAT 14 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	EPN	EPD	12 12 45.44				24	2.0	18.0	318	38	3.31	3.30	0.01	
14	SSP	EPD	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	CDH1	EPD	12 12 46.70				15	1.6	28.3	204	38	4.57	4.98	-0.41	
14	CDH5	EPD	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	EPD	12 12 50.94				23	2.0	52.0	157	38	8.81	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 = 0.3 ERH = AVFM = 1.5 Q = C 14 LONG = 116.139 W ERY = GAP = 187 AVXM = QS = A SILENT CANYON - YUCCA FLAT 14 DEPTH = 1.01 KM ERZ = NM = QD = D															
14	BGB	IPD	12 44 31.30				29	2.1	7.9	269	38	1.64	1.78	-0.09	
14	GLR	IPD	12 44 33.38				15	1.6	20.8	31	38	3.72	3.87	-0.00	
14	CDH1	EPD	12 44 34.35				29	2.1	25.5	219	38	4.69	4.63	0.05	
14	CDH5	EPD	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 ERH = 1.0 AVFM = 1.3 Q = C 14 LONG = 115.950 W ERY = 0.5 GAP = 192 AVXM = QS = B MERCURY 14 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	
14	ISU	IPD	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	EPD	16 42 55.29						27.7	300	107	5.08	5.05	0.03	

1980 SOUTH PACIFIC OCEAN  
LOCAL-EVENT DATA REPORT

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	X MAG	DUR	F MAG	DIST (KM)	A71 (DEG)	A1N (DEG)	TOHS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 14	LSM	EPD	16 42 55.45					9 1.1	29.5	257	106	5.24	5.33	-0.09	
. 14	CDH1	IPD	16 42 56.12					14 1.5	33.5	282	104	5.91	5.96	-0.05	
. 14	BGB	EPD	16 42 56.56					15 1.6	36.3	317	103	6.35	6.39	0.01	
. 14	JON	EP	16 42 57.70						42.2	199	101	7.49	7.33	0.16	
. 14	GLR	EPD	16 42 57.80					10 1.3	44.8	352	100	7.59	7.75	-0.01	

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FREE DEPTH SOLUTION														
JUL H = 12	3 20.98	UTC	RMS = 0.11	NO = 6										
. 15 LAT = 36.734 N	ERX = 1.2	ERH = 2.9	AVFM = 1.1	Q = C										
. LONG = 115.957 W	ERY = 2.6	GAP = 157	AVXM =	QS = C	MERCURY									
. DEPTH = 26.05 KM	ERZ = 2.5	NM =		QD = C										

. 15	MCY	IPD	12 3 25.75					7 0.8	8.1	183	158	4.77	4.54	0.23	
. 15	ISU	IPD	12 3 28.91									7.93	7.94	-0.01	
. 15	SPRG	EPD	12 3 25.81					13 1.4	13.9	109	144	4.83	4.91	-0.08	
. 15	LDP	EPD	12 3 26.60						23.0	305	125	5.62	5.75	-0.13	
. 15	LSM	EP	12 3 27.30						28.1	271	116	6.32	6.33	-0.00	
. 15	SSP	EPD	12 3 27.83						31.5	312	111	6.85	6.73	0.12	

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FREE DEPTH SOLUTION														
JUL H = 14	23 33.58	UTC	RMS = 0.05	NO = 6										
. 15 LAT = 36.788 N	ERX = 0.3	ERH = 0.5	AVFM = 1.2	Q = C										
. LONG = 115.925 W	ERY = 0.5	GAP = 195	AVXM =	QS = A	MERCURY									
. DEPTH = 13.69 KM	ERZ = 0.9	NM =		QD = D										

. 15	MCY	IPD	14 23 37.06					7 0.9	14.5	193	131	3.48	3.45	0.03	
. 15	ISU	IPD	14 23 39.60									6.02	6.04	-0.02	
. 15	SPRG	EPD	14 23 37.05					14 1.5	14.7	136	131	3.47	3.48	-0.01	
. 15	LDP	EPD	14 23 38.07						22.9	289	119	4.49	4.57	-0.08	
. 15	SSP	EP	14 23 39.25						30.3	300	112	5.67	5.66	0.01	
. 15	LSM	EP	14 23 39.49						31.5	260	112	5.91	5.84	0.07	

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FREE DEPTH SOLUTION														
JUL H = 23	16 16.39	UTC	RMS = 0.22	NO = 11										
. 15 LAT = 36.895 N	ERX = 1.3	ERH = 1.5	AVFM = 2.4	Q = C										
. LONG = 116.820 W	ERY = 0.8	GAP = 124	AVXM =	QS = C	CHLORIDE CLIFF									
. DEPTH = 3.96 KM	ERZ = 32.5	NM =		QD = C										

. 15	NMN	IPD	23 16 20.02					38 2.4	20.6	0	97	3.63	3.73	-0.10	
. 15	SGV	IPD	23 16 20.35					40 2.4	21.2	297	96	3.96	3.82	0.13	
. 15	BRO	IPD	23 16 20.30					27 2.1	22.7	130	96	3.9	4.07	-0.16	
. 15	FMT	EPD	23 16 21.20					33 2.3	28.6	173	95	4.1	5.01	-0.11	
. 15	CDH1	IPD	23 16 24.18					34 2.4	44.9	95	93	7.1	7.67	0.12	
. 15	BMT	EPD	23 16 24.41					42 2.6	50.1	31	93	8.02	8.50	-0.88	
. 15	SDH	EPD	23 16 25.23					24 2.1	51.1	123	93	8.84	8.68	0.16	
. 15	LSM	IPD	23 16 25.40					41 2.5	51.9	109	93	9.01	8.80	0.21	
. 15	SSP	EPD	23 16 25.52					41 2.5	53.7	86	92	9.13	9.09	0.03	
. 15	BGB	IPD	23 16 26.03					31 2.3	55.0	73	92	9.64	9.31	0.37	
. 15	EPN	EPD	23 16 26.70					41 2.6	56.6	51	92	10.31	9.56	0.75	
. 15	LDP	EPD	23 16 26.64					35 2.4	58.3	94	92	10.25	9.85	0.40	

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FREE DEPTH SOLUTION														
JUL H = 6	37 39.48	UTC	RMS = 0.22	NO = 14										
. 16 LAT = 36.199 N	ERX = 1.8	ERH = 2.6	AVFM = 2.4	Q = D										
. LONG = 115.506 W	ERY = 1.8	GAP = 245	AVXM =	QS = C	CHARLESTON PEAK									
. DEPTH = 1.07 KM	ERZ = 2.1	NM =		QD = D										

. 16	APK	IPD	6 37 42.10					30 2.1	14.7	335	38	2.62	2.86	-0.24	
. 16	NOP	EPD	6 37 49.32					30 2.3	58.7	262	38	9.84	10.02	-0.18	
. 16	ISD	IPD	6 37 57.23									17.75	17.53	0.22	
. 16	JON	EPD	6 37 49.57					28 2.2	59.9	296	38	10.09	10.22	-0.12	
. 16	SPRG	IPD	6 37 49.50					28 2.2	61.2	334	38	10.02	10.44	-0.42	
. 16	MCY	IPD	6 37 50.44					44 2.6	65.6	321	38	10.96	11.15	-0.19	
. 16	SDH	EPD	6 37 54.40					20 2.0	89.5	304	38	14.92	15.04	-0.12	
. 16	LSM	IPD	6 37 54.92					42 2.7	91.0	311	38	15.44	15.28	0.16	
. 16	LDP	IPD	6 37 55.38					33 2.5	93.7	321	38	15.90	15.73	0.18	
. 16	CDH1	IPD	6 37 56.79					21 2.1	103.3	315	38	17.31	17.27	0.04	
. 16	GKV	EPD	6 37 57.14					31 2.5	104.7	269	38	17.66	17.51	0.05	
. 16	ESD2	IPD	6 38 9.67									30.19	30.82	-0.62	
. 16	BGB	EP	6 37 58.66						113.2	325	38	19.18	18.89	0.34	
. 16	GLR	EPD	6 37 59.75					24 2.3	120.0	338	38	20.27	20.00	0.43	
. 16	PRN	EPD	6 38 2.50					34 2.7	140.1	17	30	23.02	23.09	-0.07	

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FREE DEPTH SOLUTION														
JUL H = 14	16 3.12	UTC	RMS = 0.10	NO = 9										
. 17 LAT = 36.757 N	ERX = 0.5	ERH = 0.8	AVFM = 1.3	Q = C										
. LONG = 115.909 W	ERY = 0.7	GAP = 184	AVXM =	QS = A	MERCURY									

1980 SOUTHERN GREAT BASIN  
LOCAL-EVENT DATA REPORT

JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TORS (SEC)	TCL (SEC)	RES (SEC)	REMARKS
DEPTH = 1.28 KM      ERZ = 1.2 NM =      QD = D															
17	SPRG	IPU	14 16 5.38					9 1.1	11.3	128	38	2.26	2.28	-0.02	
17	MCY	EPU	14 16 5.46					16 1.6	11.6	204	38	2.34	2.33	0.01	
17		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	EPD	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	304	38	5.95	5.86	0.09	
17	CDH5	IPU	14 16 9.68					12 1.4	38.2	287	38	6.56	6.66	-0.10	
17	CDH1	EPD	14 16 10.00					15 1.6	38.2	287	38	6.88	6.66	0.22	
17	SDH	EP	14 16 10.19						40.3	252	38	7.07	7.00	0.07	
JUL H = 22 3 14.17 UTC      RMS = 0.16      NO = 4      FIXED DEPTH SOLUTION 17 LAT = 37.170 N      ERX =      ERH =      AVFM = 1.5      Q = C      DEPTH CONTROL INADEQUATE LONG = 115.270 W      ERY =      GAP = 213      AVXM =      QS = B      ALAMO 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					16 1.8	83.6	228	92	13.13	13.96	-0.83	
17		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	14.41	4.13	
17	LOP	EP 4	22 3 30.91					7 1.1	87.2	246	92	16.74	14.55	2.19	
17		ESD4	22 3 34.02									19.85	25.46	-5.61	
17	JON	EP	22 3 32.12						110.0	223	92	17.95	18.25	-0.30	
17	SDH	EPD	22 3 32.60						111.6	239	92	18.43	18.51	-0.08	
JUL H = 12 13 41.73 UTC      RMS = 0.27      NO = 10      FREE DEPTH SOLUTION 18 LAT = 37.087 N      ERX = 1.1      ERH = 1.4      AVFM = 2.3      Q = C      SILENT CANYON - YUCCA FLAT LONG = 116.181 W      ERY = 0.9      GAP = 94      AVXM =      QS = C 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 45.04					60 2.8	19.0	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	
18			12 13 0.00												
18	CDH5	EPU	12 13 46.17					21 1.9	27.9	206	38	4.44	4.93	-0.49	
18	CDH1	IPD	12 13 46.23					35 2.3	27.9	206	38	4.50	4.93	-0.43	
18	BMT	IPU	12 13 49.46					17 1.7	38.2	305	38	7.73	6.61	0.73	
18	LSM	EPD	12 13 48.30					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	
18			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	NMN	EPD	12 13 51.24					18 1.8	56.7	269	38	9.51	9.61	-0.10	
JUL H = 15 18 52.62 UTC      RMS = 0.04      NO = 6      FREE DEPTH SOLUTION 18 LAT = 36.751 N      ERX = 0.6      ERH = 0.6      AVFM = 1.2      Q = B LONG = 116.304 W      ERY = 0.3      GAP = 160      AVXM =      QS = A DEPTH = 10.92 KM      ERZ = 1.1      NM =      QD = C      LATHROP WELLS															
18	LSM	IPD	15 18 54.60					13 1.4	3.2	114	163	1.98	2.02	-0.05	
18	SDH	EP	15 18 55.45						12.0	194	130	2.83	2.86	-0.03	
18		ESD	15 18 57.66									5.04	5.00	0.04	
18	CDH1	IPU	15 18 55.50					12 1.3	12.2	355	129	2.88	2.88	-0.01	
18	LOP	IPD	15 18 56.17					8 1.0	16.8	47	120	3.55	3.49	0.06	
18		ESD4	15 18 59.63									7.01	6.11	0.90	
18	SSP	EPU4	15 18 59.92						20.8	22	115	7.30	4.07	3.22	
18	MCY	IPU	15 18 58.36					9 1.2	32.1	108	107	5.74	5.80	-0.06	
JUL H = 15 39 43.85 UTC      RMS = 0.00      NO = 4      FREE DEPTH SOLUTION 18 LAT = 36.761 N      ERX =      ERH =      AVFM = 1.0      Q = C LONG = 116.309 W      ERY =      GAP = 229      AVXM =      QS = A DEPTH = 7.30 KM      ERZ =      NM =      QD = D      LATHROP WELLS															
18	LSM	IPD	15 39 45.40					9 1.1	4.1	127	148	1.55	1.55	-0.00	
18	CDH1	EPU	15 39 46.24					8 1.0	11.0	356	119	2.39	2.38	0.01	
18	LOP	EPD	15 39 47.01						16.3	51	110	3.16	3.16	-0.00	
18		ESU	15 39 49.38									5.53	5.53	-0.00	

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JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PFR (SEC)	XMAG	DUR	FMAG	DTST (KM)	AZI (DEG)	AIN (DEG)	TOHS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
.....															
JUL H = 10	1	46.27	UTC	RMS =	0.07	NO =	8								FREE DEPTH SOLUTION
19 LAT =	36.868	N		ERX =	0.5	ERH =	0.6	AVFM =	1.0	Q =	B				
LONG =	116.180	W		ERY =	0.3	GAP =	152	AVXM =		QS =	A				LATHROP WELLS
DEPTH =	9.51	KM		ERZ =	0.7	NM =				QD =	C				
.....															
19	LCP	EPD	10 1 48.06					6 0.7	1.9	144	168	1.79	1.75	0.04	
19	SSP	FPU	10 1 48.35					7 0.8	7.2	332	140	2.08	2.14	-0.06	
		ESD	10 1 49.96									3.69	3.74	-0.06	
19	CDH1	EPD	10 1 49.00					9 1.1	12.3	266	125	2.73	2.75	-0.03	
19	LSM	EP	10 1 49.75					8 1.0	16.5	210	117	3.48	3.34	0.14	
		ESU	10 1 52.04									5.77	5.84	-0.08	
19	BGB	EPD	10 1 50.02					11 1.3	19.3	347	113	3.75	3.76	0.04	
19	MCY	IPD	10 1 51.60						30.0	140	105	5.33	5.40	-0.08	
.....															
JUL H = 21	49	34.21	UTC	RMS =	0.01	NO =	4								FREE DEPTH SOLUTION
19 LAT =	36.898	N		ERX =		ERH =		AVFM =	1.8	Q =	C				
LONG =	115.179	W		ERY =		GAP =	265	AVXM =		QS =	A				HAYFORD PEAK
DEPTH =	12.77	KM		ERZ =		NM =				QD =	D				
.....															
19	SHRG	EPD	21 49 41.85						43.7	177	105	7.64	7.69	-0.00	
19	MCY	IPD4	21 49 46.32					20 2.0	74.6	249	99	12.11	12.62	-0.51	
19	LCP	EPU	21 49 49.04					12 1.6	88.2	267	97	14.83	14.81	0.02	
19	SSP	EPD	21 49 49.72					13 1.7	92.7	272	97	15.51	15.53	-0.02	
19	LSM	EPD	21 49 50.75					15 1.8	99.1	260	53	16.54	16.54	0.00	
.....															
JUL H = 21	49	4.36	UTC	RMS =	0.45	NO =	3								FIXED DEPTH SOLUTION
19 LAT =	37.394	N		ERX =		ERH =		AVFM =	2.5	Q =	D				DEPTH CONTROL INADEQUATE
LONG =	114.473	W		ERY =		GAP =	327	AVXM =		QS =	C				
DEPTH =	5.00	KM		ERZ =		NM =				QD =	D				
.....															
19	NPN	IPU0	21 49 12.45					37 2.4	50.1	305	94	8.09	8.52	-0.43	
19	PRN	IPD0	21 49 12.95					37 2.4	51.1	272	94	8.59	8.68	-0.10	
19	MTI	EPD0	21 49 17.98					36 2.5	77.4	294	92	13.62	12.95	0.87	
.....															
JUL H = 1	49	59.30	UTC	RMS =	0.06	NO =	3								FIXED DEPTH SOLUTION
20 LAT =	37.025	N		ERX =		ERH =		AVFM =	1.3	Q =	C				DEPTH CONTROL INADEQUATE
LONG =	116.019	W		ERY =		GAP =	235	AVXM =		QS =	A				SILENT CANYON - YUCCA FLAT
DEPTH =	5.00	KM		ERZ =		NM =				QD =	D				
.....															
20	BGB	EP	1 50 2.75					13 1.4	18.6	274	101	3.4	3.43	0.08	
20	GLR	EPD	1 50 2.70					8 1.0	19.4	0	100	3.40	3.55	0.00	
20	CDH1	EPU	1 50 4.83					11 1.3	32.2	236	96	5.53	5.62	-0.09	
.....															
JUL H = 9	7	54.80	UTC	RMS =	0.03	NO =	9								FREE DEPTH SOLUTION
20 LAT =	37.021	N		ERX =	0.3	ERH =	0.4	AVFM =	1.8	Q =	C				
LONG =	116.009	W		ERY =	0.3	GAP =	156	AVXM =		QS =	B				SILENT CANYON - YUCCA FLAT
DEPTH =	14.32	KM		ERZ =	2.1	NM =				QD =	C				
.....															
20	BGB	EPD	9 7 58.93					20 1.8	19.6	275	124	4.13	4.17	0.01	
20	GLR	IPD	9 7 58.85					14 1.5	19.8	358	124	4.05	4.20	-0.00	
20	SSP	EPD	9 7 59.18					18 1.7	21.5	240	122	4.38	4.43	-0.05	
20	LCP	EPU	9 7 59.54					24 2.0	23.3	217	120	4.74	4.68	0.05	
20	CDH1	EPD	9 8 0.87					14 1.5	32.8	237	112	6.07	6.08	-0.01	
20	LSM	EPU	9 8 1.96					27 2.1	39.1	217	108	7.16	7.04	0.11	
20	MCY	EPD	9 8 1.91					26 2.1	40.1	174	108	7.11	7.20	-0.09	
20	SPRG	EPD	9 8 2.05					14 1.6	40.4	154	108	7.25	7.25	0.00	
20	JON	EPD	9 8 5.89					19 1.9	65.0	187	101	11.09	11.13	-0.04	
.....															
JUL H = 9	47	19.60	UTC	RMS =	0.03	NO =	7								FREE DEPTH SOLUTION
20 LAT =	37.017	N		ERX =	0.3	ERH =	0.5	AVFM =	1.8	Q =	C				
LONG =	116.004	W		ERY =	0.4	GAP =	158	AVXM =		QS =	B				SILENT CANYON - YUCCA FLAT
DEPTH =	9.56	KM		ERZ =	3.7	NM =				QD =	C				
.....															
20	BGB	EPD	9 47 23.42					20 1.8	20.1	277	113	3.82	3.87	-0.00	
20	GLR	IPD	9 47 23.35					14 1.5	20.3	356	112	3.75	3.90	-0.00	
20	SSP	EPD	9 47 23.18					23 1.9	21.7	242	111	3.58	4.11	-0.53	
20	LCP	FPU	9 47 24.03					24 2.0	23.2	219	110	4.43	4.35	0.08	
20	CDH1	EPD	9 47 25.42					14 1.5	32.9	238	104	5.82	5.86	-0.04	
20	LSM	FPU	9 47 26.47					28 2.2	39.0	218	102	6.87	6.83	0.04	
20	MCY	EPD	9 47 26.43					23 2.0	39.6	175	102	6.83	6.92	-0.09	

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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
20	SPRG	EPU	9 47 26.56				15	1.6	39.8	154	102	6.96	6.95	0.01	
.....															
JUL H = 23	4	18.78	UTC	RMS =	0.10	NO =	6								FREE DEPTH SOLUTION
20	LAT =	36.706	N	ERX =	2.1	ERH =	2.3	AVFM =	1.2	Q =	C				
	LONG =	116.303	W	ERY =	0.9	GAP =	191	AVXM =		QS =	B				LATHROP WELLS
	DEPTH =	5.69	KM	ERZ =	2.5	NM =				QD =	D				
.....															
20	LSM	IP	23 4 20.00				11	1.2	4.6	37	136	1.22	1.39	-0.18	
20	SDH	IPD	23 4 20.52						7.4	205	122	1.74	1.74	-0.01	
		ISD	23 4 21.90									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 25.49									6.71	6.55	0.16	
20	JON	EP	23 4 24.76						34.5	149	97	5.98	6.00	-0.02	
.....															
JUL H = 2	8	41.81	UTC	RMS =	0.51	NO =	4								FREE DEPTH SOLUTION
21	LAT =	36.782	N	ERX =		ERH =		AVFM =	0.7	Q =	D				
	LONG =	116.057	W	ERY =		GAP =	165	AVXM =		QS =	D				LATHROP WELLS
	DEPTH =	2.01	KM	ERZ =		NM =				QD =	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	90	3.69	3.56	0.13	
		ESU4	2 8 50.00									8.19	6.23	1.96	
21	SPRG	EP	2 8 46.94				5	0.6	24.2	114	90	5.13	4.29	0.84	
.....															
JUL H = 4	7	59.95	UTC	RMS =	0.34	NO =	8								FIXED DEPTH SOLUTION
21	LAT =	37.078	N	ERX =	2.2	ERH =	2.6	AVFM =	1.7	Q =	C				DEPTH CONTROL INADEQUATE
	LONG =	116.191	W	ERY =	1.4	GAP =	107	AVXM =		QS =	C				SILENT CANYON - YUCCA FLAT
	DEPTH =	5.00	KM	ERZ =	6.6	NM =				QD =	B				
.....															
21	BGB	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				23	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	49	100	3.43	3.73	-0.15	
21	LOP	EP	4 8 4.98				20	1.8	24.9	175	98	5.03	4.43	0.60	
21	CDH1	EP	4 8 4.45				15	1.6	26.6	205	97	4.50	4.71	-0.21	
21	BMT	EPU2	4 8 7.60				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 H = 10	50	14.89	UTC	RMS =	0.10	NO =	6								FREE DEPTH SOLUTION
22	LAT =	36.954	N	FRX =	0.7	ERH =	0.9	AVFM =	2.4	Q =	C				
	LONG =	115.635	W	ERY =	0.5	GAP =	122	AVXM =		QS =	B				MERCURY
	DEPTH =	14.55	KM	ERZ =	2.0	NM =				QD =	C				
.....															
22	MCY	IPU	10 50 22.75				45	2.6	43.7	222	107	7.86	7.77	0.09	
22	GMR	IPU	10 50 22.71				45	2.6	43.8	344	107	7.82	7.78	0.04	
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	JON	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	NOP	EP	10 50 31.68				33	2.5	102.8	207	53	16.79	16.84	-0.05	
22	KRNA	EPD4	10 50 31.45				32	2.5	110.2	323	53	16.56	17.81	-1.25	
.....															
JUL H = 14	11	43.26	UTC	RMS =	0.62	NO =	6								FREE DEPTH SOLUTION
22	LAT =	36.663	N	ERX =	4.2	ERH =	9.5	AVFM =	1.9	Q =	D				
	LONG =	115.730	W	ERY =	8.5	GAP =	170	AVXM =		QS =	D				MERCURY
	DEPTH =	9.84	KM	ERZ =	26.5	NM =				QD =	C				
.....															
22	MCY	IPU	14 11 47.87				21	1.8	20.8	269	113	4.61	3.99	0.62	
22	LOP	FPU	14 11 51.30				18	1.8	44.4	298	101	8.04	7.70	0.34	
		ESD	14 11 55.62									12.36	13.48	-1.12	
22	LSM	EPU	14 11 52.23				19	1.9	49.2	280	100	8.97	8.46	0.51	
		ESD	14 11 58.09									14.83	14.80	0.03	
22	SPRG	EPD	14 11 51.89				22	2.0	54.4	109	99	8.63	9.29	-0.61	
.....															
JUL H = 20	0	48.32	UTC	RMS =	2.56	NO =	4								FREE DEPTH SOLUTION
22	LAT =	37.135	N	FRX =		ERH =		AVFM =	2.0	Q =	D				
	LONG =	115.340	W	ERY =		GAP =	222	AVXM =		QS =	D				ALAMO

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JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	X MAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SFC)	TCAL (SEC)	RES (SEC)	REMARKS
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DEPTH =		0.03 KM		ERZ =		NM =		QD = D							
22	PRN	EPD	20 0 56.32					49	2.6	39.6	40	38	8.00	7.14	0.86
22	GMR	EPD	20 0 52.00					49	2.7	44.2	300	38	3.68	7.88	-4.21
22	BGB	EPD	20 1 0.62					41	2.6	79.7	262	38	12.30	13.65	-1.31
		ESU4	20 1 18.20										29.88	23.81	6.07
22	NMN	EPD	20 1 16.57					2	0.2	131.6	267	38	28.25	22.09	6.15

JUL H = 20		28 14.09 UTC		RMS = 0.05		NO = 4		FREE DEPTH SOLUTION							
22	LAT = 36.956 N		ERX =		ERH =		AVFM = 2.0		Q = C						
	LONG = 115.623 W		ERY =		GAP = 120		AVXM =		QS = A		MERCURY				
	DEPTH = 5.00 KM		ERZ =		NM =				QD = D						

22	GMR	EPD	20 28 21.62					24	2.0	43.9	342	94	7.53	7.51	0.02
22	MCY	IPU	20 28 21.67					44	2.6	44.6	223	94	7.58	7.62	-0.04
22	LCP	EPD4	20 28 25.18					20	1.9	49.9	257	94	11.09	8.48	2.61
22	LSM	EPD4	20 28 25.98					32	2.4	62.8	247	93	11.89	10.57	1.32
22	CDH1	EPD4	20 28 27.34					26	2.2	62.8	260	93	13.25	10.59	2.66
22	SHRG	EPD	20 28 25.10					20	2.0	65.3	140	93	11.01	10.98	0.08
22	PRN	EPD	20 28 26.00					18	1.9	71.3	45	93	11.91	11.96	-0.05
22	BRO	EPD4	20 28 30.35					5	0.8	91.9	256	92	16.26	15.31	0.95

JUL H = 10		3 50.68 UTC		RMS = 0.15		NO = 29		FREE DEPTH SOLUTION							
23	LAT = 36.704 N		ERX = 0.6		ERH = 0.7		AVFM = 3.0		Q = C						
	LONG = 115.791 W		ERY = 0.4		GAP = 181		AVXM =		QS = B		MERCURY				
	DEPTH = 2.08 KM		ERZ = 1.3		NM =				QD = D						

23	MCY	IPU	10 3 53.63					93	3.1	16.0	253	91	2.95	2.95	-0.01
23	CPX	EPD3	10 3 57.26					89	3.1	34.5	316	90	6.58	5.96	0.61
23	LCP	IPU	10 3 57.12					82	3.1	37.5	296	90	6.44	6.45	-0.01
23	JON	IPU	10 3 57.46					79	3.1	40.5	224	90	6.78	6.93	-0.16
23	LSM	IPU	10 3 58.00					90	3.2	43.1	275	90	7.32	7.37	-0.05
23	SSP	IPU	10 3 58.43							45.4	303	90	7.75	7.73	0.02
23	SDH	IPU	10 3 58.97					52	2.7	49.3	262	90	8.29	8.37	-0.08
23	CDH1	EPD	10 3 59.04					64	2.9	50.1	290	90	8.36	8.50	-0.14
23	CDH5	EPD	10 3 59.10					40	2.5	50.1	290	90	8.42	8.50	-0.08
23	BGB	EPD	10 3 59.60					83	3.2	53.7	314	90	8.92	9.09	-0.12
23	GLR	EPD	10 4 0.35					75	3.1	58.6	340	90	9.67	9.87	-0.06
23	SHRG	IPU4	10 3 57.05					78	3.1	61.1	111	90	6.37	10.28	-3.86
23	GMR	IPU4	10 3 53.67					86	3.2	69.9	1	90	2.99	11.72	-8.74
23	AMR	IPD	10 4 2.50					59	2.9	69.9	241	90	11.82	11.72	0.09
23	NCP	EPD4	10 4 2.61					62	3.0	71.7	207	90	11.93	12.00	-0.08
23	EPN	EPD	10 4 3.34					105	3.4	73.8	320	90	12.66	12.36	0.30
23	BRO	EPD	10 4 3.20					49	2.8	74.8	275	90	12.52	12.52	-0.00
23	FMT	EPD	10 4 5.50					45	2.7	88.6	265	90	14.82	14.75	0.16

23	BLT	EPD	10 4 5.35					58	3.0	89.4	340	90	14.67	14.89	-0.23
23	GNV	EPD	10 4 7.03					58	3.0	97.6	234	90	16.35	16.22	0.03
23	NMN	EPD4	10 4 10.00					59	3.0	100.6	295	90	19.32	16.72	2.60
23	TPU	EPD	10 4 7.45					58	3.0	100.8	7	90	16.77	16.74	0.02
23	PRN	IPU3	10 4 8.12					80	3.3	102.1	40	90	17.44	16.96	0.48
23	SGV	EPD4	10 4 15.00							115.0	286	90	24.32	19.05	5.27
23	MTI	EP	4 10 4 7.55					57	3.1	117.4	23	90	16.87	19.43	-2.37
23	QCS	EPD4	10 4 11.00					45	2.9	118.6	355	90	20.32	19.63	0.68
		ESD4	10 4 25.92										35.24	34.36	0.87
23	PGE	EPD	10 4 11.03					40	2.8	120.8	251	90	20.35	20.00	0.35
23	QSM	EPD	10 4 11.65					46	2.9	126.8	230	90	20.97	20.97	-0.00
23	KRNA	EPD	10 4 11.85					56	3.1	127.3	336	90	21.17	21.06	0.11
23	NPN	EPD4	10 4 12.70					67	3.2	129.8	36	90	22.02	21.45	0.57
23	CTS	EPD	10 4 12.90					41	2.8	132.9	321	90	22.22	21.97	0.25
		ESD	10 4 29.05										38.37	38.45	-0.08
23	MCA	EPD	10 4 12.46					43	2.9	133.3	267	90	21.78	22.02	-0.25
23	DLM	EPD	10 4 13.15					44	2.9	136.9	43	53	22.47	22.50	-0.03
23	TVO	IPD	10 4 14.55					44	2.9	144.7	274	53	23.87	23.51	0.35
23	SPG	EPD4	10 4 15.20					88	3.5	145.6	26	53	24.52	23.63	0.89
23	GMN	EPD	10 4 14.25					59	3.2	146.5	297	53	23.57	23.74	-0.18
23	MGM	EPD	10 4 18.07					47	3.1	172.3	298	53	27.39	27.09	0.30
23	LCH	EPD4	10 4 19.21					43	3.0	175.4	290	53	28.53	27.50	1.03
		ISU4	10 4 42.50										51.82	48.12	3.70

JUL H = 10		5 49.09 UTC		RMS = 0.09		NO = 4		FREE DEPTH SOLUTION							
23	LAT = 36.663 N		ERX =		ERH =		AVFM = 1.9		Q = C						
	LONG = 115.674 W		ERY =		GAP = 175		AVXM =		QS = A		MERCURY				
	DEPTH = 15.55 KM		ERZ =		NM =				QD = D						

23	MCY	IPU	10 5 54.30					25	2.0	25.7	270	119	5.21	5.13	0.08
23	LCP	EPD	10 5 57.60					19	1.9	48.8	296	106	8.51	8.62	-0.11

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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
23	SHRG	EPD	10	5	57.77			18	1.8	49.7	111	106	8.68	8.75	-0.02	
23	LSM	EPD	10	5	58.68			22	2.0	54.1	279	105	9.59	9.43	0.16	
23	GMR	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		GROOM LAKE				
LONG = 115.502 W			ERY =		6.0	GAP =	108	AVXM =		QS = D						
DEPTH = 21.06 KM			ERZ =		8.3	NM =				QD = D						
.....																
23	GMR	EPD	13	18	56.80			27	2.1	40.8	324	116	7.61	7.72	-0.11	
23	PRN	EPD4	13	19	1.55					57.5	44	109	12.36	10.23	2.13	
	ESD		13	19	7.34								18.15	17.91	0.24	
23	MCY	EPD4	13	18	56.97			24	2.1	58.4	225	109	7.78	10.36	-2.59	
23	LCP	EPD	13	19	0.50			22	2.0	62.6	251	53	11.31	10.99	0.31	
23	SHRG	EPD	13	19	0.55			17	1.8	66.6	152	53	11.36	11.50	-0.09	
23	LSM	EPD	13	19	1.45			20	2.0	76.1	244	53	12.26	12.74	-0.48	
.....																
JUL H = 11 39 43.31 UTC			RMS =		0.04	NO =	9	FREE DEPTH SOLUTION								
24	LAT = 37.045 N		ERX =		0.3	ERH =	0.3	AVFM =	1.8	Q = B		SILENT CANYON - YUCCA FLAT				
LONG = 116.241 W			ERY =		0.1	GAP =	146	AVXM =		QS = A						
DEPTH = 7.20 KM			ERZ =		0.4	NM =				QD = C						
.....																
24	BGB	IPU	11	39	44.63			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	EPD	11	39	47.07			30	2.2	20.1	339	106	3.76	3.75	0.00	
24	CDH1	IPU	11	39	47.28			18	1.7	21.6	198	105	3.97	3.99	-0.02	
24	CDH5	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	EPD	11	39	47.35			22	1.9	22.2	163	105	4.04	4.08	-0.04	
24	GLR	EPD4	11	39	47.40			15	1.6	26.2	49	102	4.09	4.71	-0.47	
24	LSM	EPD	11	39	49.35			28	2.1	34.1	185	100	6.04	5.97	0.07	
24	MCY	EPD	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		SILENT CANYON - NORTH				
LONG = 116.474 W			ERY =		0.2	GAP =	48	AVXM =		QS = C						
DEPTH = 2.22 KM			ERZ =		5.8	NM =				QD = C						
.....																
25	EPN	IPD	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	IPD	20	30	56.72					37.8	53	90	6.42	6.50	-0.08	
25	GLR	EPD	20	30	57.05			93	3.2	41.0	99	90	6.75	7.01	-0.12	
25	SSP	IPD	20	30	57.63			241	4.0	43.0	148	90	7.33	7.35	-0.03	
25	CDH5	EPD	20	30	58.06					45.9	162	90	7.76	7.82	-0.06	
25	CDH1	IPU	20	30	58.12			142	3.6	45.9	162	90	7.82	7.82	0.00	
25	CTS	IPD	20	30	58.55			130	3.5	48.2	332	90	8.25	8.19	0.05	
25	LCP	EPD	20	30	59.00			145	3.6	52.1	148	90	8.70	8.83	-0.13	
25	KRNA	IPD	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	IPD	20	31	0.34			220	4.0	60.0	163	90	10.04	10.10	-0.07	
25	SDH	EPD	20	31	1.57			118	3.5	68.7	170	90	11.27	11.52	-0.25	
25	FMT	EPD	20	31	2.50			97	3.4	73.4	202	90	12.20	12.29	0.00	
25	QCS	EPD	20	31	3.03			127	3.6	75.4	41	90	12.73	12.61	0.12	
25	MCY	IPD	20	31	3.96			215	4.1	80.0	145	90	13.66	13.36	0.29	
25	GVN	IPD	20	31	4.07			51	2.8	82.2	250	90	13.77	13.71	0.06	
25	TPU	EPD	20	31	4.07			101	3.4	82.8	62	90	13.77	13.81	-0.04	
25	MGM	EPD	20	31	5.62			47	2.8	93.0	283	90	15.32	15.47	-0.16	
25	MZP	EPD	20	31	5.80			46	2.8	94.4	302	90	15.50	15.70	-0.02	
25	AMP	EPD	20	31	6.36			115	3.6	95.1	180	90	16.06	15.81	0.24	
25	JON	EPD	20	31	6.22			115	3.6	96.3	160	90	15.92	16.01	-0.09	
25	LCH	EPD	20	31	7.60			33	2.5	104.2	269	90	17.30	17.29	0.00	
25	GWV	IPU	20	31	10.45			110	3.6	119.8	188	90	20.15	19.83	0.22	
25	SVP	EPD	20	31	11.72			51	3.0	128.0	294	90	21.42	21.16	0.11	
25	NOP	IPU4	20	31	12.68			137	3.9	128.3	167	90	22.38	21.21	1.17	
25	PPK	EPD	20	31	12.03			40	2.8	128.5	279	90	21.73	21.24	0.48	
25	DLM	EPD	20	31	16.12			89	3.6	158.5	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		SILENT CANYON - NORTH				
LONG = 116.470 W			ERY =		0.2	GAP =	51	AVXM =		QS = C						
DEPTH = 1.64 KM			ERZ =		136.3	NM =				QD = C						
.....																
25	EPN	IPD	21	14	13.50					13.8	109	38	2.42	2.60	-0.19	
25	BGB	IPD	21	14	16.72			130	3.5	32.4	138	38	5.64	5.63	0.06	



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. 25	BLT	IPD	21 14 17.70			182	3.8	37.5	52	38		6.62	6.46	0.16	
. 25	GLR	EPD	21 14 17.86			108	3.3	40.6	99	38		6.78	6.97	-0.05	
. 25	SSP	IPD	21 14 18.39			170	3.7	42.9	149	38		7.31	7.35	-0.04	
. 25	CDH1	EPD	21 14 18.70			86	3.2	45.9	163	38		7.62	7.83	-0.21	
. 25	CTS	EPD	21 14 19.30			170	3.8	48.3	332	38		8.22	8.22	-0.00	
. 25	LOP	EPD	21 14 19.88			172	3.8	52.0	149	38		8.80	8.82	-0.03	
. 25	KRNA	IPD	21 14 20.48			180	3.8	55.5	8	38		9.40	9.38	0.01	
. 25	LSM	EPD	21 14 21.16			170	3.8	60.0	163	38		10.08	10.11	-0.04	
. 25	SDH	EPD	21 14 22.58			105	3.4	68.7	170	38		11.50	11.53	-0.04	
. 25	GCS	EPD	21 14 23.42			162	3.8	75.1	41	38		12.34	12.57	-0.23	
. 25	MCY	EPD	21 14 24.76			175	3.9	79.9	146	38		13.68	13.36	0.32	
. 25	TPU	EPD	21 14 25.00			98	3.4	82.4	62	38		13.92	13.76	0.15	
. 25	GVN	IPD	21 14 24.90			45	2.7	82.5	250	38		13.82	13.78	0.03	
. 25	MGM	EPD	21 14 26.49			43	2.7	93.3	283	38		15.41	15.54	-0.13	
. 25	MZP	EPD	21 14 26.65			41	2.7	94.7	301	38		15.57	15.75	0.00	
. 25	AMR	EPD	21 14 27.08			105	3.5	95.2	180	38		16.00	15.84	0.15	
. 25	JCN	EPD	21 14 27.10			107	3.5	96.3	160	38		16.02	16.01	0.00	
. 25	TMO	EPD	21 14 27.28			88	3.4	97.3	239	38		16.20	16.18	0.01	
. 25	LCH	EPD	21 14 28.71			29	2.4	104.5	269	38		17.63	17.36	0.26	
. 25	TNP	EPD	21 14 29.72					113.0	324	38		18.64	18.74	-0.10	
. 25	GWV	EPD	21 14 31.23			109	3.6	119.9	189	38		20.15	19.87	0.18	
. 25	SVP	EPD	21 14 32.59			53	3.0	128.3	293	38		21.51	21.22	0.14	
. 25	NCP	EPD	21 14 33.47			117	3.7	128.3	167	38		22.39	21.22	1.16	
. 25	PPK	IPD	21 14 32.80			34	2.6	128.8	278	38		21.72	21.31	0.40	
. 25	SRG	EPD	21 14 35.00			117	3.8	142.0	61	30		23.92	23.21	0.70	

JUL H = 23 10 40.35 UTC RMS = 0.33 NO = 15 FREE DEPTH SOLUTION  
 . 25 LAT = 37.262 N ERX = 0.9 ERH = 1.2 AVFM = 4.1 Q = C  
 . LONG = 116.491 W ERY = 0.7 GAP = 62 AVXM = QS = C SILENT CANYON - NORTH  
 . DEPTH = 0.69 KM ERZ = 12.2 NM = QD = C

. 25	BGB	IPD	23 10 46.26			354	4.3	34.1	137	38		5.91	6.11	-0.16	
. 25	BLT	IPD	23 10 49.60			360	4.4	38.6	55	38		9.25	6.84	2.41	
. 25	SSP	IPD	23 10 47.74			353	4.4	44.5	147	38		7.39	7.80	-0.42	
. 25	CTS	EPD	23 10 53.16			338	4.4	46.8	334	38		12.81	8.18	4.63	
. 25	CDH1	IPD	23 10 48.08			189	3.8	47.1	161	38		7.73	8.22	-0.50	
. 25	CPX	IPD	23 10 50.09			192	3.9	53.3	134	38		9.74	9.23	0.50	
. 25	LCP	IPD	23 10 50.00			350	4.4	53.6	148	38		9.65	9.28	0.37	
. 25	KRNA	EPD	23 10 49.56			340	4.4	55.1	10	38		9.21	9.52	-0.31	
. 25	LSM	IPD	23 10 50.95			373	4.5	61.2	161	38		10.60	10.51	0.09	
. 25	SDH	EPD	23 10 51.53			280	4.3	69.7	169	38		11.18	11.90	-0.72	
. 25	FMT	EPD	23 10 52.42			188	3.9	73.6	200	38		12.07	12.53	-0.36	
. 25	GCS	EPD	23 10 57.45			345	4.5	75.8	42	38		17.10	12.89	4.21	
. 25	GVN	EPD	23 10 53.89			136	3.7	81.0	249	38		13.54	13.73	-0.19	
. 25	MCY	IPD	23 10 55.90			370	4.6	81.6	145	38		15.55	13.82	1.73	
. 25	MGM	IPD	23 10 58.10			112	3.5	91.2	283	38		17.75	15.39	2.36	
. 25	MZP	IPD	23 10 58.20			82	3.3	92.7	302	38		17.85	15.63	2.41	
. 25	AMR	EPD	23 10 58.47			290	4.4	95.9	179	38		18.12	16.15	1.97	
. 25	JCN	EPD	23 10 56.60			288	4.4	97.5	159	38		16.25	16.42	-0.17	
. 25	LCH	IPD	23 10 59.45			67	3.1	102.7	268	38		19.10	17.26	1.84	
. 25	TNP	IPD	23 10 59.13			361	4.6	111.4	325	38		18.78	18.67	0.11	
. 25	GWV	EPD	23 11 1.25			299	4.5	120.4	188	38		20.90	20.13	0.67	
. 25	SVP	EPD	23 11 1.83			99	3.6	126.3	293	38		21.48	21.09	0.24	
. 25	PPK	EPD	23 11 1.85			76	3.3	126.8	278	38		21.50	21.19	0.31	
. 25	NCP	EPD	23 11 3.00			317	4.6	129.4	166	38		22.65	21.60	1.05	
. 25	NPN	EPD	23 11 4.48			206	4.3	144.1	72	30		24.13	23.70	0.42	

JUL H = 5 0 4.28 UTC RMS = 0.06 NO = 4 FREE DEPTH SOLUTION  
 . 26 LAT = 37.231 N ERX = ERH = AVFM = 1.4 Q = C  
 . LONG = 116.309 W ERY = GAP = 161 AVXM = QS = A SILENT CANYON - NORTH  
 . DEPTH = 23.42 KM ERZ = NM = QD = D

. 26	LCP	EPD	5 0 14.10			11	1.4	43.6	163	53		9.82	8.29	1.52	
. 26	NMN	EPD	5 0 13.27			14	1.6	48.2	250	53		8.99	8.88	0.10	
. 26	GMR	IPD	5 0 13.30			13	1.5	49.0	76	53		9.02	9.00	0.02	
. 26	LSM	IPD	5 0 13.93			14	1.6	54.7	177	53		9.65	9.73	-0.08	
. 26	GMN	EP	5 0 17.86			6	1.0	84.6	275	53		13.58	13.62	-0.04	

JUL H = 22 3 14.17 UTC RMS = 0.16 NO = 4 FIXED DEPTH SOLUTION  
 . 17 LAT = 37.170 N ERX = ERH = AVFM = 1.5 Q = C DEPTH CONTROL INADEQUATE  
 . LONG = 115.270 W ERY = GAP = 213 AVXM = QS = B ALAMO  
 . DEPTH = 5.00 KM ERZ = NM = QD = D

. 17	EFR	EPD	22 3 15.86					7.4	91	117		1.69	1.70	-0.01	
. 17	SPRG	IPD	22 3 26.49			12	1.5	71.4	222	93		12.32	11.98	0.34	
. 17	MCY	IPD	22 3 27.30			16	1.8	83.6	228	92		13.13	13.96	-0.83	

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.	17	ISU4	22 3 30.22									16.05	24.43	-8.38	.
.	17	BCU EPU4	22 3 32.66				12	1.6	86.4	260	92	18.49	14.41	4.13	.
.	17	LOP EP 4	22 3 30.91				7	1.1	87.2	246	92	16.74	14.55	2.19	.
.	17	ESD4	22 3 34.02									19.85	25.46	-5.61	.
.	17	JON EP	22 3 32.12						110.0	223	92	17.95	18.25	-0.30	.
.	17	SDH EPD	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 = 36.702 N	ERX = 0.5	ERH = 1.0	AVFM = 2.2	Q = C									
.	26	LONG = 115.650 W	ERY = 0.8	GAP = 170	AVXM =	QS = C									
.	26	DEPTH = 0.41 KM	ERZ = 122.5	NM =		QD = C									
.	26	MCY EPU4	17 20 1.20				45	2.5	28.2	261	38	3.53	5.21	-1.68	.
.	26	LOP EPU	17 20 6.21				33	2.3	49.1	290	38	8.54	8.61	-0.07	.
.....															
.	26	SHRG IPU	17 20 6.28				27	2.2	49.4	116	38	8.61	8.66	-0.00	.
.	26	JON EPD	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	SDH EPU	17 20 8.02				37	2.5	61.8	264	38	10.35	10.66	-0.32	.
.	26	CDH1 EPU	17 20 8.13				29	2.3	62.1	286	38	10.46	10.71	-0.26	.
.	26	CDH5 EPD	17 20 8.26				24	2.1	62.1	286	38	10.59	10.71	-0.13	.
.	26	BCB 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 EPD4	17 20 1.65				45	2.7	71.0	351	38	3.98	12.16	-8.18	.
.	26	NOP EPD	17 20 11.50				23	2.1	78.0	215	38	13.83	13.30	0.53	.
.	26	BRO EPU	17 20 12.59				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	34	38	9.51	16.02	-6.52	.
.	26	SGV EPD4	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 = 0.43 NO = 5 FREE DEPTH SOLUTION															
.	26	LAT = 36.960 N	ERX = 0.2	ERH = 0.2	AVFM = 2.0	Q = D									
.	26	LONG = 115.654 W	ERY = 0.1	GAP = 126	AVXM =	QS = C									
.	26	DEPTH = 5.99 KM	ERZ = 5.8	NM =		QD = D									
.	26	GMR IPU	18 33 15.39				29	2.2	42.7	346	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	LOP 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	246	94	12.16	10.19	1.97	.
.	26	SHRG EPU	18 33 18.84				30	2.3	67.4	139	94	11.27	11.34	-0.03	.
.	26	BLT EPU4	18 33 18.30						70.1	323	94	10.73	11.77	-1.04	.
.	26	JON EPD	18 33 18.62				15	1.7	70.3	215	94	11.05	11.81	-0.76	.
.	26	SDH EPD4	18 33 20.70				13	1.6	70.3	240	94	13.13	11.81	1.32	.
.	26	PRN EPU	18 33 19.58				20	2.0	73.1	47	93	12.01	12.26	-0.25	.
.....															
JUL H = 9 42 9.04 UTC RMS = 0.41 NO = 8 FREE DEPTH SOLUTION															
.	27	LAT = 36.648 N	ERX = 1.9	ERH = 2.6	AVFM = 2.2	Q = C									
.	27	LONG = 115.249 W	ERY = 1.8	GAP = 140	AVXM =	QS = C									
.	27	DEPTH = 1.04 KM	ERZ = 572.9	NM =		QD = C									
.	27	SHRG 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	10.18	10.86	-0.68	.
.	27	JON EPU	9 42 23.07				18	1.9	80.0	253	38	14.03	13.49	0.54	.
.	27	LOP EPU	9 42 22.71				23	2.2	85.1	286	38	13.67	14.33	-0.66	.
.	27	PRN 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	SDH EPD	9 42 24.54				15	1.8	97.5	270	38	15.50	16.34	-0.84	.
.	27	CDH1 EPD	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 28.09 UTC RMS = 0.00 NO = 4 FREE DEPTH SOLUTION															
.	27	LAT = 36.921 N	ERX =	ERH =	AVFM = 1.7	Q = C									
.	27	LONG = 115.534 W	ERY =	GAP = 136	AVXM =	QS = A									
.	27	DEPTH = 20.06 KM	ERZ =	NM =		QD = D									
.	27	LOP IPD	13 50 38.19				16	1.7	57.0	262	108	10.10	10.10	-0.00	.
.	27	SHRG JPD	13 50 38.19						57.3	144	108	10.10	10.15	0.00	.
.	27	PRN EPD	13 50 40.00				12	1.5	68.9	39	53	11.91	11.91	0.00	.
.	27	LSM EPD	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															
.	28	LAT = 36.907 N	ERX = 0.8	ERH = 0.8	AVFM = 1.6	Q = C									

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LONG = 115.983 W ERY = 0.4 GAP = 182 AVXM = US = A MERCURY															
DEPTH = 1.61 KM ERZ = 1.3 NM = QD = D															
28	LDP	EPD	5 0 32.72					23 1.9	17.5	250	38	3.05	3.21	-0.16	
28	HGB	EPU	5 0 34.16					17 1.7	26.2	304	38	4.49	4.63	-0.09	
28	MCY	EPU	5 0 34.33					21 1.9	27.3	176	38	4.66	4.81	-0.15	
28	CDH1	EPU4	5 0 35.40					14 1.5	30.3	260	38	5.73	5.29	0.44	
28	CDH5	EP 4	5 0 35.36						30.3	260	38	5.69	5.29	0.40	
28	LSM	EPD	5 0 35.29					21 1.9	31.8	234	38	5.62	5.54	0.08	
28	GLR	EPU	5 0 35.20					13 1.5	32.6	355	38	5.53	5.67	0.01	
28	SDH	EPU	5 0 37.17					13 1.5	43.0	228	38	7.50	7.36	0.14	
28	EPN	EPU	5 0 37.57					21 1.9	45.6	318	38	7.90	7.79	0.11	
28	GMR	EPU4	5 0 34.37					22 2.0	51.0	22	38	4.70	8.66	-3.96	
28	JON	EPU	5 0 38.75					12 1.5	52.9	192	38	9.08	8.98	0.10	
28	ESU		5 0 45.37									15.70	15.71	-0.01	
28	GWV	EPU	5 0 45.96					5 0.9	100.9	218	38	16.29	16.78	-0.59	
JUL H = 14 48 46.81 UTC RMS = 0.07 NO = 3 FIXED DEPTH SOLUTION															
28 LAT = 37.173 N ERH = ERH = 1.9 AVFM = 1.9 Q = C DEPTH CONTROL INADEQUATE															
LONG = 115.422 W ERY = GAP = 280 AVXM = QS = A ALAMO															
DEPTH = 5.00 KM ERZ = NM = QD = D															
28	MCY	EPD4	14 49 2.58					22 2.1	74.4	220	93	15.77	12.46	3.30	
28	LDP	EP	14 48 59.30					15 1.7	75.2	242	93	12.49	12.59	-0.11	
28	SHRG	EP	14 48 59.80						77.9	162	92	12.99	13.03	0.01	VERY E
28	ESD4		14 49 2.70									15.89	22.72	-6.83	
28	LSM	EPD	14 49 1.86					15 1.8	89.7	238	92	15.05	14.95	0.10	
JUL H = 18 55 55.98 UTC RMS = 0.08 NO = 6 FREE DEPTH SOLUTION															
28 LAT = 36.723 N ERH = 1.7 ERH = 1.9 AVFM = 1.6 Q = C															
LONG = 115.941 W ERY = 0.8 GAP = 250 AVXM = QS = B MERCURY															
DEPTH = 0.14 KM ERZ = 1.4 NM = QD = D															
28	MCY	IPU	18 55 57.72					21 1.8	7.0	196	38	1.74	1.82	-0.08	
28	LDP	EPD	18 56 0.84					17 1.7	24.9	306	38	4.86	4.73	0.13	
28	LSM	EPU	18 56 1.37					18 1.7	29.6	273	38	5.39	5.49	-0.10	
28	JON	EPD	18 56 2.35					11 1.3	34.6	205	38	6.37	6.30	0.07	
28	ESU		18 56 7.00									11.02	11.02	-0.00	
28	SDH	EPD	18 56 2.57					11 1.3	36.5	256	38	6.59	6.61	-0.02	
JUL H = 19 38 10.83 UTC RMS = 0.15 NO = 20 FREE DEPTH SOLUTION															
28 LAT = 37.228 N ERH = 0.4 ERH = 0.6 AVFM = 2.7 Q = C															
LONG = 115.416 W ERY = 0.4 GAP = 153 AVXM = QS = C ALAMO															
DEPTH = 0.88 KM ERZ = 6.8 NM = QD = C															
28	PRN	EPU4	19 38 26.70					36 2.4	38.0	59	38	15.87	6.70	9.17	
28	TPU	IPU	19 38 18.66					38 2.5	46.6	334	38	7.83	8.10	-0.27	
28	MTI	EP	19 38 19.55					37 2.4	51.3	14	38	8.72	8.87	0.05	
28	NPN	IPD	19 38 21.57					35 2.4	63.3	42	38	10.74	10.82	-0.08	
28	BLT	EPU	19 38 22.23					53 2.8	68.8	292	38	11.40	11.71	-0.31	
28	DLM	IPD	19 38 23.20					25 2.2	73.1	55	38	12.37	12.41	-0.04	
28	LDP	EPD	19 38 24.23					55 2.9	78.8	238	38	13.40	13.33	0.07	
28	SRG	IPU	19 38 24.30						78.8	23	38	13.47	13.33	0.13	
28	SSP	IPD	19 38 24.20					57 2.9	78.9	245	38	13.37	13.35	0.01	
28	MCY	IPU	19 38 24.17					71 3.1	79.6	218	38	13.34	13.46	-0.12	
28	EPN	EPU	19 38 25.00					72 3.1	80.6	269	38	14.17	13.63	0.54	
28	WRN	EPU	19 38 25.32					25 2.2	85.0	350	38	14.49	14.34	0.15	
28	LSM	EPD	19 38 26.60					73 3.2	93.6	235	38	15.77	15.74	0.03	
28	KRNA	EPU	19 38 28.07					48 2.9	103.1	304	38	17.24	17.28	-0.05	
28	SDH	EPU	19 38 28.55					47 2.8	104.6	232	38	17.72	17.53	0.18	
28	JON	EPU	19 38 28.75					46 2.8	106.9	215	38	17.92	17.90	0.02	
28	RVE	EPU	19 38 29.70					25 2.3	111.4	322	38	18.87	18.64	0.23	
28	CTS	EPU	19 38 31.77					33 2.6	124.7	291	38	20.94	20.79	0.15	
28	AMR	EPD	19 38 33.52					47 2.9	132.0	226	38	22.69	21.98	0.70	
28	NOP	EPU	19 38 34.01					46 2.9	138.8	208	30	23.18	22.96	0.22	
28	GWV	EPU4	19 38 37.90					42 2.9	161.1	224	30	27.07	25.86	1.11	
28	TNP	EPU	19 38 40.00					49 3.2	185.0	301	30	29.17	28.97	0.20	
JUL H = 3 48 9.89 UTC RMS = 0.12 NO = 14 FREE DEPTH SOLUTION															
31 LAT = 36.696 N FRX = 0.5 ERH = 0.6 AVFM = 2.0 Q = B															
LONG = 115.787 W ERY = 0.4 GAP = 109 AVXM = QS = A MERCURY															
DEPTH = 9.09 KM ERZ = 1.0 NM = QD = B															

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JUL 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SFC)	XMAG	DUR	FMAG	UTST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
31	SPRG	IPD	3 48 11.60					30	2.1	2.0	265	167	1.71	1.69	0.02
31	MCY	IPU	3 48 13.01					38	2.3	16.1	256	116	3.12	3.25	-0.14
31	LOP	EPD	3 48 16.52					20	1.9	38.3	297	101	6.63	6.69	-0.07
31	JGN	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					30	2.2	43.6	276	100	7.58	7.55	0.03
31	SSP	IPD	3 48 17.92					17	1.8	46.2	303	99	8.03	7.96	0.07
31	SDH	EPD	3 48 18.40					12	1.5	49.6	264	99	8.51	8.51	-0.00
31	CDH1	EPD	3 48 18.45					21	2.0	50.8	291	98	8.56	8.70	-0.14
31	BGB	EPD	3 48 19.33					30	2.3	54.6	314	98	9.44	9.32	0.17
31	SHRG	EPD	3 48 20.15					18	1.9	60.4	111	97	10.26	10.24	0.06
31	GMR	EPD	3 48 21.70					22	2.1	70.8	1	96	11.81	11.93	-0.13
31	NOP	EPD	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	EPD	3 48 22.83					18	1.9	75.3	276	96	12.94	12.66	0.28
31	NPN	EPD4	3 48 32.30					26	2.4	130.3	35	53	22.41	20.95	1.46
31	SRG	EPD4	3 48 35.25					33	2.7	146.3	26	53	25.36	23.03	2.33

JUL H = 19 22 16.60 UTC RMS = 0.37 NO = 9 FREE DEPTH SOLUTION  
 31 LAT = 37.067 N ERX = 1.8 ERH = 2.4 AVFM = 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	GMR	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	KRNA	EPD	19 22 30.00						83.0	336	90	13.40	13.84	-0.44	
31	CTS	EPD	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	EPD	19 22 35.95					79 3.3	114.5	55	90	19.35	18.97	0.39	
31	GWV	EPD	19 22 35.60						114.6	212	90	19.00	18.98	-0.08	
31	SRG	EPD4	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 = 1.0 ERH = 1.4 AVFM = 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	EPD	19 26 26.94							64.4	240	38	10.96	11.00	-0.04	
31	TPU	EPD	19 26 28.10					190	3.9	68.4	27	38	12.12	11.64	0.48	
31	JON	EPD	19 26 27.62					172	3.8	69.1	187	38	11.64	11.76	-0.12	
31	NMN	EPD	19 26 28.00					182	3.9	72.6	272	38	12.02	12.33	-0.30	
31	QCS	EPD4	19 26 30.70							79.2	6	38	14.72	13.41	1.31	
31	FMT	EPD	19 26 29.82							83.4	236	38	13.84	14.08	-0.14	
31	KRNA	EPD	19 26 29.98							83.9	336	38	14.00	14.16	-0.16	
31	AMR	EPD	19 26 30.10					160	3.8	84.5	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	EPD	19 26 31.80							93.0	65	38	15.82	15.65	0.17	
31	MTI	EPD	19 26 31.40							94.3	43	38	15.42	15.86	-0.24	
31	NOP	IPD	19 26 33.49					217	4.2	104.0	187	38	17.51	17.43	0.08	
31	GWV	EPD	19 26 35.65					174	4.0	113.6	212	38	19.67	19.00	0.57	
31	GVN	EPD	19 26 36.45					166	4.0	119.5	267	38	20.47	19.95	0.52	
31	MCA	EPD4	19 26 37.20							122.7	248	38	21.22	20.47	0.75	
31	DLM	EPD4	19 26 38.70							127.5	61	38	22.72	21.25	1.47	
31	QSM	EPD	19 26 39.30							143.9	213	30	23.32	23.63	-0.30	
31	PPK	EPD	19 26 44.20					146	4.1	174.0	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 = 37.052 N ERX = 0.7 ERH = 0.9 AVFM = 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 7.80					13	1.4	19.3	32	38	3.56	3.71	-0.00	
06	LOP	EPD	3 42 8.68					16	1.6	22.2	188	38	4.44	4.19	0.25	
06	EPN	EPD	3 42 8.70							24.7	317	38	4.46	4.60	-0.14	
	ESU		3 42 12.39										8.15	8.04	0.11	
06	BMT	EPD4	3 42 13.41							43.9	306	38	9.17	7.71	1.06	
06	EPR	EP 4	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 ERH = 0.7 AVFM = 2.7 Q = B  
 LONG = 116.483 W ERY = 0.5 GAP = 75 AVXM = QS = B SILENT CANYON - NORTH

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AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PFR (SEC)	XMAG	DUR	FMAG	DIST (KM)	A/I (DIG)	AIN (DEG)	T00S (SEC)	TCAL (SEC)	RLS (SEC)	REMARKS
DEPTH = 8.08 KM      FRZ = 1.6 NM =      GD = A															
06	BMT	IPD	9 37 36.88					76	2.9	5.6	307	142	2.39	1.79	0.20
06	EPN	IPD	9 37 37.26					100	3.2	14.8	107	115	2.77	2.99	-0.23
06	BGB	EPD	9 37 40.00					53	2.7	33.0	136	101	5.51	5.82	-0.26
06	NMN	IPD	9 37 40.55					59	2.8	35.4	237	101	6.06	6.20	-0.14
06	BLT	EPD	9 37 41.07					53	2.7	38.5	53	100	6.58	6.70	-0.13
06	GLR	EPD4	9 37 43.30					34	2.3	41.8	98	99	8.81	7.22	1.73
06	CTS	EPD	9 37 42.77					35	2.4	48.0	333	98	8.28	8.22	0.05
06	LCP	EPD	9 37 43.71					45	2.6	52.4	148	97	9.27	8.94	0.27
06	KRNA	EPD	9 37 43.98					55	2.8	55.9	9	97	9.49	9.50	-0.01
06	SGV	EPD	9 37 44.17					55	2.8	57.4	238	96	9.68	9.75	-0.07
06	LSM	EPD	9 37 44.82					60	2.9	60.1	162	96	10.33	10.18	0.15
06	GMR	EP	9 37 45.45					35	2.4	63.8	82	96	10.96	10.77	0.19
		ESU4	9 38 1.17										26.68	18.85	7.83
06	GMN	EPD	9 37 46.13					34	2.4	69.0	274	95	11.64	11.63	0.01
06	MCY	EPD4	9 37 49.50					44	2.7	80.4	145	95	15.01	13.47	1.54
06	GVN	EPD	9 37 48.15					37	2.6	81.3	250	95	13.66	13.62	0.04
AUG H = 3 21 59.24 UTC      RMS = 0.17      NO = 16      FREE DEPTH SOLUTION 07 LAT = 36.438 N      ERX = 0.6      ERH = 0.9      AVFM = 2.2      Q = B LONG = 115.644 W      ERY = 0.7      GAP = 87      AVXM =      GS = B      CHAL ESTON PEAK DEPTH = 10.57 KM      ERZ = 1.3      NM =      GD = B															
07	APK	IPD	3 22 2.66					39	2.4	14.6	154	123	3.42	3.15	0.26
07	SPRG	IPD	3 22 5.02					35	2.3	32.0	333	106	5.78	5.76	0.01
07	MCY	IPD	3 22 5.87					49	2.6	37.8	311	104	6.63	6.67	-0.04
07	JON	IPD	3 22 6.44					27	2.1	41.1	270	103	7.20	7.20	-0.00
07	SHRG	EPD	3 22 6.57					23	2.0	44.4	80	102	7.33	7.73	-0.35
07	NOP	EPD	3 22 8.70					26	2.2	57.2	233	99	9.46	9.76	-0.30
07	LSM	IPD	3 22 10.46					46	2.7	65.3	301	98	11.22	11.08	0.14
07	LCP	EPD	3 22 10.51					32	2.4	65.8	315	98	11.27	11.14	0.12
07	SDH	IPD	3 22 10.46					23	2.1	66.3	290	98	11.22	11.23	-0.01
07	AMR	EPD	3 22 11.80					28	2.3	74.6	267	97	12.56	12.56	-0.01
07	CDH1	EPD	3 22 12.06					26	2.2	76.3	308	97	12.82	12.85	-0.03
07	CDH5	EPD	3 22 12.03					9	1.3	76.3	308	97	12.79	12.85	-0.06
07	BGB	EPD	3 22 13.20					25	2.2	84.6	322	96	13.96	14.18	-0.17
07	BRO	EPD	3 22 15.20					21	2.1	94.9	292	95	15.96	15.85	0.11
07	GMR	EPD	3 22 16.27					22	2.2	100.1	354	95	17.03	16.69	0.34
07	BMT	EP 4	3 22 20.95					25	2.4	122.8	320	53	21.71	19.84	1.47
07	NMN	EPD3	3 22 21.00					27	2.4	126.7	304	53	21.76	20.35	1.41
		ESU	3 22 34.90										35.66	35.61	0.05
AUG H = 9 53 37.18 UTC      RMS = 0.13      NO = 11      FREE DEPTH SOLUTION 07 LAT = 37.312 N      ERX = 0.5      ERH = 0.6      AVFM = 2.2      Q = C LONG = 116.290 W      ERY = 0.4      GAP = 118      AVXM =      GS = B      SILENT CANYON - NORTH DEPTH = 1.57 KM      ERZ = 2.3      NM =      GD = C															
07	EPN	IPD	9 53 39.37					60	2.7	11.3	195	38	2.19	2.22	-0.03
07	BLT	EP	9 53 41.00					37	2.3	21.5	40	38	3.82	3.88	-0.06
07	BGB	EPD	9 53 42.32					26	2.1	31.0	170	38	5.14	5.42	-0.23
07	GMR	EP	9 53 45.10					21	1.9	46.1	87	38	7.92	7.88	0.04
07	KRNA	EPD	9 53 45.48					22	2.0	49.2	351	38	8.30	8.38	-0.08
		ESU2	9 53 51.43										14.25	14.67	-0.42
07	CDH1	EPD	9 53 45.50					23	2.0	50.2	183	38	8.32	8.55	-0.23
07	LCP	EPD	9 53 45.85					27	2.2	52.0	168	38	8.67	8.84	-0.17
07	CTS	EPD	9 53 46.27					19	1.9	52.9	313	38	9.09	8.99	0.10
07	LSM	EP	9 53 48.15					35	2.4	63.7	179	38	10.97	10.73	0.24
07	MCY	EP	9 53 50.33					33	2.4	77.9	158	38	13.15	13.05	0.10
AUG H = 9 51 35.85 UTC      RMS = 0.20      NO = 4      FREE DEPTH SOLUTION 08 LAT = 37.131 N      ERX =      ERH =      AVFM = 2.0      Q = C LONG = 116.182 W      ERY =      GAP = 221      AVXM =      GS = B      SILENT CANYON - YUCCA FLAT DEPTH = 0.16 KM      ERZ =      NM =      GD = D															
08	BMT	EPD	9 51 42.48					37	2.4	35.5	298	38	6.63	6.45	-0.22
08	LSM	EPD	9 51 43.60							44.2	190	38	7.75	7.86	-0.11
08	MCY	EPD	9 51 45.72							55.6	159	38	9.87	9.72	0.15
08	SDH	EPD4	9 51 42.69					9	1.2	55.6	195	38	6.84	9.72	-2.88
08	NMN	EPD4	9 51 46.20					30	2.3	56.8	264	38	10.35	9.91	0.43
08	JCN	EPD4	9 51 45.19					12	1.6	77.0	175	38	9.34	13.19	-3.85
08	GVN	EPD	9 51 53.79					25	2.3	104.2	262	38	17.94	17.61	0.33
AUG H = 2 21 21.90 UTC      RMS = 0.03      NO = 4      FREE DEPTH SOLUTION															

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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
09 LAT = 36.536 N ERX = ERH = AVFM = 1.6 Q = C LONG = 116.387 W ERY = GAP = 267 AVXM = QS = A LATHROP WELLS DEPTH = 1.39 KM ERZ = NM = QD = D															
09	SDH	EPD	2 21 24.37					12 1.3	12.9	20	38	2.47	2.52	-0.05	
09	LSM	EPD	2 21 26.38					22 1.9	24.8	25	38	4.48	4.45	0.03	
09	JCN	EPD	2 21 26.82					12 1.4	27.6	113	38	4.92	4.91	0.01	
09	MCY	EPD	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 = 36.616 N ERX = 1.5 ERH = 1.6 AVFM = 1.3 Q = C LONG = 116.271 W ERY = 0.7 GAP = 156 AVXM = QS = B LATHROP WELLS DEPTH = 9.74 KM ERZ = 3.8 NM = QD = D															
09	SDH	EPD	2 21 42.66					9 1.1	6.8	299	143	2.09	2.13	-0.04	
09	LSM	EPD	2 21 43.60					15 1.5	13.6	360	123	3.03	2.96	0.07	
09	JCN	EPD	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	EPD	2 21 45.63					10 1.2	28.1	80	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 ERH = 2.0 AVFM = 1.3 Q = C LONG = 117.392 W ERY = 1.3 GAP = 127 AVXM = QS = C MT. JACKSON DEPTH = 12.18 KM ERZ = 6.4 NM = QD = B															
11	GVN	EPD	8 14 33.70					17 1.7	17.3	165	123	3.73	3.66	0.07	
11	GMN	EPD	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	LCH	EPD	8 14 34.46					12 1.4	24.5	292	114	4.49	4.70	-0.20	
11	MGM	EPD	8 14 36.04					8 1.1	33.4	344	108	6.07	6.06	0.02	
	ESD		8 14 40.80									10.83	10.60	0.23	
11	SGV	EPD	8 14 36.95					12 1.4	37.2	121	106	6.98	6.64	0.35	
11	BMT	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 ERH = 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	IPD	8 19 47.05					11 1.3	11.0	141	38	2.36	2.17	0.23	
11	EPN	EPD	8 19 46.69					2 -0.2	11.1	352	38	2.00	2.19	-0.19	
11	BMT	IPD	8 19 50.45					11 1.3	27.5	313	38	5.76	4.86	0.50	
	ISD		8 19 54.89									10.20	9.20	0.99	
11	CDH1	IPD	8 19 49.75					9 1.1	28.3	182	38	5.06	4.98	0.08	
	ES		8 19 53.10									8.41	8.71	-0.30	
11	CDH5	EPD	8 19 49.73						28.3	182	38	5.04	4.98	0.06	
11	LOP	EPD	8 19 50.21					17 1.7	31.5	157	38	5.52	5.49	0.02	
11	NMN	EPD	8 19 52.40					10 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	EPD	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 ERH = 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	AMR	IPD	4 53 19.64					17 1.7	31.7	108	38	5.70	5.81	-0.11	
12	BRO	IPD	4 53 19.96					26 2.1	34.7	28	38	6.02	6.31	-0.29	
12	GKV	IPD	4 53 20.41					19 1.8	35.6	159	38	6.47	6.44	-0.07	
12	SDH	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	60	38	9.59	9.71	-0.11	
12	QSM	EPD	4 53 24.25					30 2.3	58.1	185	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	CDH1	EPD	4 53 24.37					31 2.3	60.4	47	38	10.43	10.48	-0.05	
12	CDH5	EPD	4 53 24.37						60.4	47	38	10.43	10.48	-0.05	
	ESU2		4 53 32.36									18.42	18.35	0.08	
12	JCN	EPD	4 53 25.10						63.5	95	38	11.16	10.99	0.18	
12	TMQ	EPD	4 53 24.96					28 2.2	64.2	303	38	11.02	11.09	-0.07	
12	NMN	EPD4	4 53 26.18					33 2.4	65.9	359	38	12.24	11.38	0.67	
	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	

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AUG 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	X MAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS	
.	12	NOP	EPD	4 53 25.98				14	1.7	71.2	124	38	12.04	12.23	-0.19	
.	12	GVN	EPD4	4 53 27.35						74.4	320	38	13.41	12.75	0.66	
.	12	HGB	EPD	4 53 27.87				32	2.4	80.2	40	38	13.93	13.70	0.28	
.	12	BMT	FPU	4 53 30.15						91.8	16	38	16.21	15.58	0.23	
.	.	ESU4		4 53 40.14								26.20	27.96	-1.76		

AUG H = 8 20 27.36 UTC RMS = 0.05 NO = 7 FREE DEPTH SOLUTION  
 14 LAT = 36.329 N ERX = 0.3 ERH = 0.3 AVFM = 1.7 Q = C  
 LONG = 116.238 W ERY = 0.2 GAP = 129 AVXM = QS = C ASH MEADOWS  
 DEPTH = 1.83 KM ERZ = 66.8 NM = QD = C

.	14	JCN	IPD	8 20 30.51				14	1.5	17.2	44	90	3.15	3.16	-0.00	
.	14	AMR	EPD	8 20 31.35				17	1.7	22.6	290	90	3.99	4.02	-0.03	
.	14	NCP	EPU	8 20 31.54				15	1.6	23.6	161	90	4.18	4.18	-0.00	
.	14	SDH	EP 2	8 20 33.85				12	1.4	36.3	346	90	6.49	6.25	0.24	
.	14	MCY	EPU	8 20 34.91				22	2.0	44.4	34	90	7.55	7.57	-0.02	
.	14	LSM	EPU	8 20 35.25				21	1.9	45.6	356	90	7.89	7.77	0.12	
.	14	LOP	EPD	8 20 37.26				14	1.6	58.6	6	90	9.90	9.89	0.02	
.	14	BGB	EPD2	8 20 41.00				19	2.0	78.7	1	90	13.64	13.15	0.55	
.	14	NMN	EPU4	8 20 46.39						98.3	328	90	19.03	16.33	2.70	
.	14	GMR	EPD4	8 20 48.15						119.0	20	90	20.79	19.71	1.08	

AUG H = 8 59 59.92 UTC RMS = 0.02 NO = 3 FIXED DEPTH SOLUTION  
 15 LAT = 36.203 N ERX = ERH = AVFM = 1.6 Q = C DEPTH CONTROL INADEQUATE  
 LONG = 116.700 W ERY = GAP = 288 AVXM = QS = A FURNACE CREEK  
 DEPTH = 5.00 KM ERZ = NM = QD = D

.	15	SDH	EPD	9 0 9.85						58.8	33	93	9.93	9.94	-0.00	
.	15	MCY	EPD4	9 0 9.17						83.5	52	92	9.25	13.94	-4.69	
.	15	LCH	IPU	9 0 22.83				10	1.6	142.4	324	53	22.91	22.92	-0.01	
.	15	PPK	EPU	9 0 26.90						173.3	322	53	26.98	26.94	0.04	

AUG H = 18 15 37.34 UTC RMS = 0.47 NO = 19 FREE DEPTH SOLUTION  
 15 LAT = 36.007 N ERX = 2.6 ERH = 4.5 AVFM = 2.8 Q = D  
 LONG = 115.274 W ERY = 3.6 GAP = 253 AVXM = QS = C LAS VEGAS  
 DEPTH = 0.31 KM ERZ = 3.9 NM = QD = D

.	15	APK	EPD	18 15 44.71				45	2.6	43.9	322	38	7.37	7.78	-0.41	
.	15	SHRG	EPD	18 15 46.40				40	2.5	56.2	11	38	9.06	9.78	-0.67	
.	.	ISO		18 15 54.60								17.26	17.02	0.24		
.	15	NOP	EP	18 15 50.60				32	2.4	80.3	280	38	13.26	13.69	-0.43	
.	15	JON	EPU	18 15 52.30				31	2.4	88.7	303	38	14.96	15.06	-0.10	
.	15	MCY	EPD	18 15 53.33				54	2.9	95.4	320	38	15.99	16.15	-0.15	
.	15	AMR	EPD	18 15 57.97				33	2.6	116.3	292	38	20.63	19.55	1.08	
.	15	SDH	EPD	18 15 58.01				34	2.6	119.0	307	38	20.67	19.98	0.69	
.	15	LSM	EP	18 15 57.68				47	2.9	120.9	312	38	20.34	20.29	0.05	
.	15	LOP	EPD	18 15 58.30				36	2.7	123.5	320	38	20.96	20.72	0.24	
.	15	CPX	EPU4	18 16 7.35						124.1	326	38	30.01	20.82	9.20	
.	15	GWV	EPD	18 15 58.42				36	2.7	127.3	279	38	21.08	21.35	-0.36	
.	15	EPR	EPD4	18 16 0.30				60	3.1	129.1	3	38	22.96	21.64	1.33	
.	15	CDH1	EPU	18 15 59.56				39	2.8	133.1	315	38	22.22	22.29	-0.06	
.	15	CDH5	EPU	18 15 59.43				37	2.7	133.1	315	38	22.09	22.29	-0.19	
.	15	QSM	EPD	18 16 0.67				52	3.1	143.8	268	30	23.33	23.75	-0.42	
.	15	BRO	EPU	18 16 2.50				45	3.0	147.4	305	30	25.16	24.21	0.95	
.	15	GMR	EPU	18 16 2.90				47	3.0	153.8	343	30	25.56	25.04	0.52	
.	.	ESD4		18 16 23.50								46.16	43.82	2.34		
.	15	PRN	EPU	18 16 3.32				62	3.3	156.6	7	30	25.98	25.41	0.57	
.	15	DLM	EPD	18 16 6.76				36	2.9	183.7	15	30	29.42	28.93	0.49	
.	15	NPN	EPD	18 16 7.03				46	3.1	185.1	9	30	29.69	29.11	0.59	
.	15	GVN	EPU4	18 16 13.50						215.7	301	30	36.16	33.08	3.08	

AUG H = 23 9 49.90 UTC RMS = 0.21 NO = 15 FREE DEPTH SOLUTION  
 15 LAT = 36.481 N ERX = 0.6 ERH = 0.8 AVFM = 2.0 Q = C  
 LONG = 116.918 W ERY = 0.5 GAP = 78 AVXM = QS = C FURNACE CREEK  
 DEPTH = 5.71 KM ERZ = 8.0 NM = QD = C

.	15	PGE	IPD	23 9 53.66				30	2.2	19.8	222	102	3.76	3.65	0.12	
.	15	FMT	IPD	23 9 53.23				30	2.2	21.5	35	101	3.33	3.91	-0.48	
.	15	MCA	FPD	23 9 56.27				30	2.2	37.4	300	96	6.37	6.47	-0.10	
.	15	GWV	EPU	23 9 56.85				22	2.0	39.5	146	96	6.95	6.81	0.04	
.	15	BRO	IPD	23 9 56.95				25	2.1	40.7	40	96	7.05	7.01	0.05	
.	15	AMR	IPU	23 9 56.83				13	1.5	40.9	103	96	6.93	7.03	-0.10	
.	15	SDH	EPD4	23 9 59.75				12	1.5	55.0	71	94	9.85	9.31	0.54	
.	15	TPO	EPU	23 9 59.50				27	2.2	56.7	309	94	9.60	9.60	0.00	

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. 15	QSM	EPU	23 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	NMN	EPD	23 10 1.60					24 2.1	67.1	8	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	JON	EPD	23 10 2.19					13 1.6	73.1	94	93	12.29	12.26	0.03	.
. 15	LOP	EP 4	23 10 3.80					23 2.1	78.8	58	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 10 5.11					28 2.3	87.8	77	93	15.21	14.65	0.57	.
. 15	APK	EPU	23 10 10.45						121.8	98	92	20.55	20.18	0.37	.

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AUG H = 17 48 9.14 UTC RMS = 0.13 NO = 17 FREE DEPTH SOLUTION															
17 LAT = 36.990 N ERX = 0.6 ERH = 0.9 AVFM = 2.6 Q = D															
LONG = 117.536 W ERY = 0.6 GAP = 187 AVXM = QS = C DRY MOUNTAIN															
DEPTH = 0.09 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	LCH	IPD	17 48 14.33					51 2.6	28.9	340	38	5.19	5.38	-0.19	.
. 17	GMN	IPD	17 48 16.74					38 2.4	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 19.47					46 2.7	58.6	326	38	10.33	10.21	0.12	.
. 17	NMN	EPU	17 48 20.12					53 2.8	64.7	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	SDH	EPD	17 48 28.27					22 2.2	113.6	110	38	19.13	19.15	-0.02	.
. 17	AMR	EP	17 48 28.30					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	19.58	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	GWV	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	20.76	20.68	0.08	.
. 17	JON	IPD	17 48 32.65					25 2.4	141.9	115	30	23.51	23.55	-0.04	.
. 17	MCY	EPU	17 48 33.26					41 2.9	145.2	105	30	24.12	23.97	0.15	.
. 17	NOP	EP	17 48 34.82						156.5	128	30	25.68	25.44	0.24	.

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AUG H = 8 0 42.67 UTC RMS = 0.12 NO = 4 FREE DEPTH SOLUTION															
18 LAT = 37.170 N ERX = ERH = AVFM = 2.4 Q = C															
LONG = 115.188 W ERY = GAP = 131 AVXM = QS = A ALAMO															
DEPTH = 4.01 KM ERZ = NM = QD = D															

. 18	EPR	IPD	8 0 43.50					63 2.7	0.2	141	176	0.83	0.83	0.01	.
. 18	PRN	IPD4	8 0 48.26					45 2.5	29.0	25	95	5.59	5.08	0.51	.
. 18	GMR	EPU	8 0 51.75					30 2.3	54.8	289	92	9.08	9.27	-0.19	.
. 18	NPN	EPD	8 0 52.47					29 2.3	58.0	23	92	9.80	9.79	0.01	.
. 18	GLR	EPU	8 0 55.05					29 2.3	73.7	273	92	12.38	12.35	0.18	.

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AUG H = 8 33 4.44 UTC RMS = 0.17 NO = 9 FREE DEPTH SOLUTION															
19 LAT = 36.910 N ERX = 1.3 ERH = 1.4 AVFM = 1.5 Q = C															
LONG = 115.986 W ERY = 0.7 GAP = 181 AVXM = QS = B MERCURY															
DEPTH = 9.42 KM ERZ = 4.3 NM = QD = D															

. 19	LOP	EPD	8 33 7.67					14 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	BGB	EPU	8 33 9.09					19 1.8	25.8	303	107	4.65	4.74	-0.04	.
. 19	MCY	IPU	8 33 9.32					13 1.5	27.6	176	106	4.88	5.02	-0.14	.
. 19	CDH1	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 14.38									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	.

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AUG H = 11 58 16.22 UTC RMS = 0.09 NO = 17 FREE DEPTH SOLUTION															
20 LAT = 36.711 N ERX = 0.2 ERH = 0.4 AVFM = 2.0 Q = B															
LONG = 115.604 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	SHRG	FPD	11 58 24.10					23 2.0	46.2	120	98	7.88	7.93	-0.00	.
. 20	LOP	EPU	11 58 25.20					17 1.8	52.8	288	97	8.98	8.99	-0.02	.
. 20	JON	EPD	11 58 25.51					12 1.5	53.9	236	97	9.29	9.17	0.12	.
.		ESU	11 58 32.30									16.08	16.04	0.04	.
. 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 26.44					18 1.8	59.8	293	96	10.22	10.13	0.09	.
.		ISD	11 58 34.50									18.28	17.73	0.55	.



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. 20	GLR	EPD	11 58 27.00				28	2.3	65.6	326	95	10.78	11.06	-0.14	.
. 20	CDH5	EPD4	11 58 27.05				17	1.8	65.8	285	95	10.83	11.11	-0.28	.
. 20	CDH1	EPD	11 58 27.15				27	2.2	65.8	285	95	10.93	11.11	-0.18	.
. 20	SDH	EPD	11 58 27.42				11	1.4	66.0	264	95	11.20	11.14	0.06	.
. 20	BGB	EPD	11 58 27.18				31	2.3	66.4	303	95	10.96	11.20	-0.19	.
. 20	GMR	EPD	11 58 28.25				24	2.1	70.8	348	95	12.03	11.90	0.13	.
. 20	AMR	EP	11 58 30.62						85.3	246	94	14.40	14.26	0.14	.
. 20	BRO	EPD	11 58 31.56				20	2.1	91.5	274	94	15.34	15.26	0.07	.
. 20	BMT	EPD4	11 58 35.57				28	2.4	104.4	308	93	19.35	17.36	1.59	.
. 20	NMN	EPD	11 58 35.43				27	2.4	115.8	291	53	19.21	19.19	0.01	.
. 20	SGV	EPD	11 58 38.00				25	2.4	131.0	283	53	21.78	21.17	0.61	.
.....															
. AUG H = 18 5 20.23 UTC RMS = 0.37 NO = 4 FREE DEPTH SOLUTION															
. 20 LAT = 36.817 N ERX = ERH = AVFM = 1.3 Q = D															
. LONG = 116.273 W ERY = GAP = 124 AVXM = QS = C LATHROP WELLS															
. DEPTH = 0.52 KM ERZ = NM = QD = D															
. 20	CDH1	EP 3	18 5 22.05				20	1.8	6.2	321	38	1.82	1.61	0.21	.
. 20	LSM	IPD	18 5 21.85				14	1.5	8.6	179	38	1.62	2.00	-0.37	.
. 20	LOP	EPD2	18 5 22.70				9	1.1	10.3	66	38	2.47	2.28	0.19	.
. 20	SSP	EPD4	18 5 27.53				6	0.7	13.0	22	38	7.30	2.71	4.59	.
. 20	SDH	EP 3	18 5 26.10						19.8	197	38	5.87	3.82	2.05	.
.....															
. AUG H = 3 24 2.88 UTC RMS = 0.29 NO = 9 FREE DEPTH SOLUTION															
. 21 LAT = 37.221 N ERX = 1.2 ERH = 1.7 AVFM = 2.6 Q = C															
. LONG = 116.466 W ERY = 1.2 GAP = 80 AVXM = QS = C SILENT CANYON - NORTH															
. DEPTH = 1.75 KM ERZ = 8.9 NM = QD = 8															
. 21	BMT	EPD	3 24 5.02						9.2	319	90	2.14	1.84	-0.10	.
. 21	BGB	EPD4	3 24 8.84				74	3.0	29.4	134	90	5.96	5.12	0.88	.
. 21	NMN	EPD4	3 24 7.15						34.9	244	90	4.27	6.03	-1.76	.
. 21	BLT	EPD	3 24 10.13				32	2.3	39.7	48	90	7.25	6.80	0.45	.
. 21	GLR	EPD	3 24 9.20				48	2.6	39.9	93	90	6.32	6.83	-0.37	.
. 21	CDH1	EPD	3 24 10.45				42	2.5	42.1	162	90	7.57	7.20	0.36	.
. 21	SGV	EPD	3 24 12.60						56.9	242	90	9.72	9.61	0.11	.
. 21	GMR	EPD4	3 24 15.00				52	2.8	62.9	79	90	12.12	10.57	1.55	.
. 21	QCS	EPD	3 24 15.88				26	2.2	77.8	39	90	13.00	12.99	0.00	.
. 21	ESU	EPD	3 24 26.85									23.97	22.74	1.23	.
. 21	GVN	EPD4	3 24 17.60						81.6	253	90	14.72	13.63	1.09	.
. 21	SPRG	EPD	3 24 16.10				43	2.7	82.7	135	90	13.22	13.80	-0.58	.
. 21	NPN	EP	3 24 26.25				45	2.9	143.6	71	53	23.37	23.40	-0.03	.
.....															
. AUG H = 12 30 47.79 UTC RMS = 0.03 NO = 4 FREE DEPTH SOLUTION															
. 21 LAT = 36.812 N ERX = ERH = AVFM = 1.0 Q = C															
. LONG = 115.958 W ERY = GAP = 257 AVXM = QS = A MERCURY															
. DEPTH = 1.79 KM ERZ = NM = QD = D															
. 21	MCY	EPD	12 30 50.87				9	1.1	16.6	181	90	3.08	3.06	0.03	.
. 21	ISU	EPD	12 30 53.10									5.31	5.35	-0.04	.
. 21	SPRG	EPD4	12 30 56.10						18.6	134	90	8.31	3.38	4.93	.
. 21	LOP	EPD	12 30 51.25				6	0.8	19.2	284	90	3.46	3.48	-0.02	.
. 21	ESD4	EPD	12 30 53.69									5.90	6.09	-0.19	.
. 21	LSM	EP	12 30 52.90				9	1.1	29.1	254	90	5.11	5.08	0.03	.
.....															
. AUG H = 1 11 2.12 UTC RMS = 0.10 NO = 6 FREE DEPTH SOLUTION															
. 22 LAT = 36.505 N ERX = 1.1 ERH = 1.6 AVFM = 1.4 Q = D															
. LONG = 116.445 W ERY = 1.1 GAP = 288 AVXM = QS = C LATHROP WELLS															
. DEPTH = 8.87 KM ERZ = 6.3 NM = QD = D															
. 22	AMR	EPD4	1 11 9.50						12.2	192	123	7.38	2.68	4.70	.
. 22	SDH	EPD	1 11 5.60				13	1.4	18.3	32	113	3.48	3.56	-0.08	.
. 22	LSM	EPD	1 11 7.55				12	1.4	30.2	31	104	5.43	5.41	0.02	.
. 22	ESU	EPD	1 11 11.68									9.56	9.47	0.09	.
. 22	JON	EPD	1 11 7.89				11	1.3	31.5	103	103	5.77	5.61	0.16	.
. 22	MCY	EP	1 11 10.00						46.6	68	99	7.88	8.02	-0.14	.
. 22	ESU	EPD	1 11 16.10									13.98	14.03	-0.05	.
.....															
. AUG H = 3 37 51.05 UTC RMS = 0.09 NO = 13 FREE DEPTH SOLUTION															
. 23 LAT = 37.126 N ERX = 0.2 ERH = 0.4 AVFM = 2.3 Q = C															
. LONG = 117.018 W ERY = 0.3 GAP = 146 AVXM = QS = C MT. JACKSON															

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DEPTH = 2.98 KM ERZ = 7.3 NM = QD = C															
23	SGV	IPU	3 37 54.03			44	2.5	16.2	184	95		2.98	2.99	-0.01	
23	NMN	IPU	3 37 54.24			35	2.3	18.5	106	94		3.19	3.37	-0.18	
23	GMN	EPD	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	BMT	EPD4	3 37 57.00			42	2.5	46.4	68	92		5.95	7.91	-2.36	
23	BRU	EPD	3 37 59.95			24	2.1	53.4	139	91		8.90	9.05	-0.15	
23	CDH5	EPD	3 38 2.62			23	2.1	69.0	115	90		11.57	11.57	-0.00	
23	CDH1	EPD	3 38 2.55			30	2.3	69.0	115	90		11.50	11.57	-0.07	
23	BGB	EPD	3 38 3.03			30	2.3	71.0	98	90		11.98	11.89	0.14	
23	SSP	IPU	3 38 3.75			23	2.1	74.6	107	90		12.70	12.49	0.22	
		ESD	3 38 12.90									21.85	21.85	0.00	
23	LSM	EPD	3 38 4.49			24	2.2	79.2	123	90		13.44	13.23	0.21	
23	SDH	EPD	3 38 4.49			33	2.4	80.8	131	90		13.44	13.48	-0.04	
23	LOP	EP 3	3 38 5.12					81.5	112	90		14.07	13.61	0.46	
23	MCY	EPD	3 38 9.05			26	2.3	107.3	119	90		18.00	17.81	0.20	
23	NOP	EPD4	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 ERH = 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 NM = QD = 0															
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	5.74	-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 ERH = 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 NM = 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	CDH5	EP	11 40 11.30					8.7	255	114		2.15	1.87	0.28	
24	LSM	EP	11 40 11.95			7	0.9	16.2	195	102		2.80	3.05	-0.25	
24	BGB	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 ERH = 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 NM = QD = C															
24	MCY	IPD	23 7 4.19			25	1.9	4.8	40	150		1.84	1.84	0.00	
24	SPRG	EPD	23 7 5.83			18	1.7	18.2	67	113		3.48	3.56	-0.08	
24	JON	IPD	23 7 6.74			10	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		4.85	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	SDH	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	1.8	38.5	312	101		6.55	6.73	-0.17	
24	CDH5	EP	23 7 8.83			13	1.5	38.5	312	101		6.48	6.73	-0.24	
24	GMR	EPD	23 7 16.20			15	1.8	80.8	14	95		13.85	13.54	0.31	
24	NMN	EPD	23 7 17.55			17	1.9	88.8	304	95		15.20	14.83	0.37	
24	SGV	EPD	23 7 19.59			19	2.0	100.4	293	94		17.24	16.72	0.53	
AUG H = 8 7 48.75 UTC RMS = 0.08 NO = 16 FREE DEPTH SOLUTION 25 LAT = 37.312 N ERX = 0.2 ERH = 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 NM = QD = B															
25	BMT	IPU4	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	14.8	137	122		3.21	3.18	0.03	
25	HLT	EPD	8 7 54.47			12	1.4	31.5	58	106		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	GLR	EPD4	8 7 55.15			25	2.1	39.3	109	103		6.40	6.90	-0.35	
25	NMN	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	

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.		ISD	8 8 2.21									13.46	13.51	-0.05	
.	25	SSP EP	8 7 56.80					25 2.1	47.1	156	101	8.05	8.15	-0.10	
.	25	CDH1 EPU	8 7 57.65					25 2.1	51.2	168	100	8.90	8.81	-0.09	
.	25	LCP EP	8 7 58.26					24 2.1	56.2	155	99	9.51	9.60	-0.09	
.	25	GMR EPD	8 7 58.82					20 1.9	59.1	88	99	10.07	10.07	-0.01	
.	25	BRO EPD	8 7 59.29					19 1.9	63.2	195	98	10.54	10.73	-0.19	
.	25	SCV EPD	8 7 59.64					25 2.2	64.4	235	98	10.89	10.92	-0.03	
.	25	LSM EP 4	8 8 0.70					25 2.2	65.3	167	98	11.95	11.06	0.89	
.	25	GMN EPD	8 8 0.97					15 1.7	72.9	269	97	12.22	12.29	-0.08	
.	25	MCY EP	8 8 2.91					27 2.3	83.7	150	96	14.16	14.03	0.13	
.	25	GVN EPD	8 8 3.54					32 2.4	87.4	247	96	14.79	14.64	0.15	
.	25	MCA EP	8 8 6.49					19 2.1	105.2	226	95	17.74	17.51	0.22	

AUG H = 8 9 30.03 UTC RMS = 0.03 NO = 5 FREE DEPTH SOLUTION  
 25 LAT = 37.309 N ERX = 0.4 ERH = 0.7 AVFM = 1.9 Q = C  
 LONG = 116.441 W ERY = 0.5 GAP = 190 AVXM = QS = A SILENT CANYON - NORTH  
 DEPTH = 11.75 KM ERZ = 1.0 NM = QD = D

.	25	EPN IPU	8 9 33.30					29 2.1	14.8	135	126	3.27	3.30	-0.03	
.		ESU	8 9 35.83									5.80	5.78	0.02	
.	25	BLT EP	8 9 35.85						31.9	58	108	5.82	5.81	0.01	
.	25	CTS IPU	8 9 37.84						44.5	326	103	7.81	7.77	0.03	
.		ISD	8 9 43.61									13.58	13.60	-0.03	
.	25	SSP EP 4	8 9 44.05					15 1.6	47.0	155	102	14.02	8.18	5.84	
.	25	MCY EP 4	8 9 45.78					20 2.0	83.6	149	97	15.75	14.04	1.70	

AUG H = 8 32 35.88 UTC RMS = 0.18 NO = 13 FREE DEPTH SOLUTION  
 25 LAT = 37.311 N ERX = 0.5 ERH = 0.8 AVFM = 1.9 Q = B  
 LONG = 116.445 W ERY = 0.5 GAP = 93 AVXM = QS = B SILENT CANYON - NORTH  
 DEPTH = 8.73 KM ERZ = 3.8 NM = QD = B

.	25	BMT EPD4	8 32 35.33					30 2.1	8.4	249	133	*****	2.18	-3.12	
.	25	EPN IPU	8 32 38.98					32 2.2	15.2	135	117	3.10	3.09	0.01	
.	25	BLT EP	8 32 41.51					12 1.4	32.2	59	103	5.63	5.71	-0.08	
.	25	BGB EPU	8 32 41.95					26 2.1	35.9	147	101	6.07	6.31	-0.18	
.	25	NMN IPD	8 32 43.11					22 2.0	41.8	232	100	7.23	7.24	-0.01	
.	25	CTS IPU	8 32 43.56						44.2	326	99	7.68	7.63	0.06	
.		ISD	8 32 49.24									13.36	13.35	0.02	
.	25	SSP EPU	8 32 44.60						47.3	155	99	8.72	8.13	0.59	
.	25	LCP EP	8 32 45.30						56.4	154	97	9.42	9.59	-0.16	
.	25	GMR EPD	8 32 45.91					20 1.9	59.8	88	97	10.03	10.15	-0.12	
.	25	BRO EPD	8 32 46.40					19 1.9	62.9	195	97	10.57	10.64	-0.12	
.	25	SGV EPD	8 32 46.72					18 1.9	63.7	235	96	10.8	10.78	0.07	
.	25	GMN EPD4	8 32 47.22					4 0.6	72.2	269	96	11.3	12.15	-0.81	
.	25	MCY EP	8 32 50.35					26 2.3	83.9	149	95	14.4	14.04	0.43	
.	25	GVN EPD	8 32 50.34					27 2.3	86.7	247	95	14.46	14.50	-0.04	

AUG H = 9 27 4.38 UTC RMS = 0.11 NO = 15 FREE DEPTH SOLUTION  
 25 LAT = 37.306 N ERX = 0.3 ERH = 0.4 AVFM = 2.5 Q = B  
 LONG = 116.432 W ERY = 0.3 GAP = 92 AVXM = QS = A SILENT CANYON - NORTH  
 DEPTH = 11.64 KM ERZ = 1.1 NM = QD = B

.	25	BMT IPU	9 27 7.78					71 2.9	9.4	254	139	3.40	2.63	0.37	
.	25	EPN IPU	9 27 7.60					70 2.9	14.0	137	127	3.22	3.19	0.03	
.	25	BLT EPU	9 27 10.15					18 1.8	31.4	57	108	5.77	5.72	0.04	
.	25	BGB EPU	9 27 10.50					69 2.9	34.9	149	106	6.12	6.26	-0.09	
.	25	GLR EPU	9 27 10.97					43 2.5	38.6	108	105	6.59	6.84	-0.11	
.	25	NMN IPD	9 27 11.79					68 2.9	42.4	234	104	7.41	7.45	-0.04	
.		IS 4	9 27 40.66									36.28	13.03	23.24	
.	25	CTS IPU	9 27 12.21					12 1.4	45.2	325	103	7.83	7.88	-0.06	
.	25	SSP EPD2	9 27 13.15					30 2.2	46.4	156	102	8.77	8.07	0.69	
.		ESD	9 27 18.40									14.02	14.13	-0.11	
.	25	LCP EPD	9 27 13.86					28 2.2	55.4	155	100	9.48	9.51	-0.04	
.	25	GMR EPU	9 27 14.45					43 2.6	58.7	87	100	10.07	10.03	0.03	
.	25	BRO EPD	9 27 14.83					31 2.3	62.7	196	99	10.45	10.69	-0.24	
.	25	SGV EPD	9 27 15.36					68 3.0	64.4	236	99	10.98	10.95	0.02	
.		ESD4	9 27 52.28									47.90	19.17	28.73	
.	25	LSM EP 4	9 27 16.24					30 2.3	64.6	167	99	11.86	10.98	0.88	
.	25	MCY EPD	9 27 18.52					32 2.4	82.9	150	97	14.14	13.93	0.21	
.	25	GVN EPU	9 27 19.10					51 2.9	87.6	247	97	14.72	14.69	0.02	
.	25	MCA EPU	9 27 22.07					34 2.6	105.1	226	53	17.69	17.43	0.26	
.	25	NPN EPD4	9 27 27.89					29 2.5	137.7	74	53	23.51	21.66	1.85	
.	25	QSM EPU4	9 27 29.89					14 2.0	153.8	195	53	25.51	23.76	1.75	

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AUG H = 13 32 25.71 UTC RMS = 0.09 NO = 12 FREE DEPTH SOLUTION															
25	LAT =	37.311 N		ERX =	0.3	ERH =	0.4	AVFM =	1.8	Q = B					
25	LONG =	116.435 W		ERY =	0.3	GAP =	93	AVXM =		QS = A					SILENT CANYON - NORTH
25	DEPTH =	14.59 KM		ERZ =	1.1	NM =				QD = R					
25	BMT	EPD	13 32 29.31					21 1.8	9.3	251	146	3.60	3.00	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						31.4	58	113	5.89	5.88	0.00	
25	BGB	EPD	13 32 32.00					19 1.8	35.5	149	111	6.29	6.50	-0.16	
25	GLR	EPD	13 32 32.58					12 1.4	39.0	108	109	6.87	7.04	-0.03	
25	NMN	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	
25		ESD	13 32 39.46									13.75	13.86	-0.11	
25	SSP	EPD	13 32 34.71					17 1.8	46.9	156	106	9.00	8.28	0.72	
25	LOP	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	88	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	MCY	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	247	98	14.79	14.75	0.04	
AUG H = 15 12 22.09 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					
25	LONG =	116.439 W		ERY =	0.2	GAP =	93	AVXM =		QS = A					SILENT CANYON - NORTH
25	DEPTH =	10.29 KM		ERZ =	1.4	NM =				QD = B					
25	BMT	EPD	15 12 25.50					22 1.8	8.9	251	137	3.41	2.42	0.60	
25	EPN	IPU	15 12 25.25					29 2.1	14.7	136	122	3.16	3.14	0.02	
25	BLT	EPD	15 12 27.80					8 1.0	31.7	58	106	5.71	5.71	0.01	
25	BGB	EPD	15 12 28.15					20 1.9	35.5	148	104	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	NMN	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 29.85					7 1.0	44.6	325	101	7.76	7.75	0.02	
25		ESD	15 12 35.59									13.50	13.56	-0.05	
25	LOP	EP 3	15 12 31.95					17 1.8	56.0	154	99	9.86	9.56	0.30	
25	GMR	EPD	15 12 32.22					14 1.6	59.2	87	98	10.13	10.09	0.05	
25	BRO	EPD	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	
25		ESD	15 12 41.10									19.01	19.03	-0.02	
25	APK	EPD 4	15 12 41.12					16 2.0	134.2	145	53	19.03	21.34	-2.31	
AUG H = 1 0 10.17 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					
26	LONG =	116.435 W		ERY =	0.4	GAP =	92	AVXM =		QS = A					SILENT CANYON - NORTH
26	DEPTH =	13.58 KM		ERZ =	1.8	NM =				QD = B					
26	BMT	EPD	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 1.0	31.7	57	111	5.89	5.86	0.02	
26	BGB	EPD	1 0 16.65						35.1	148	109	6.48	6.39	0.14	
26	GLR	EPD	1 0 16.84						38.9	108	108	6.67	6.98	-0.16	
26	NMN	EPD	1 0 17.68						42.2	234	106	7.51	7.50	0.01	
26	CTS	IPU	1 0 18.17					7 1.0	45.0	325	105	8.00	7.93	0.07	
26		ESD	1 0 23.90									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	LOP	EP 4	1 0 21.90					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	
26		ESU	1 0 29.12									18.95	19.20	-0.26	
26	MCY	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					
26	LONG =	116.432 W		ERY =	0.3	GAP =	93	AVXM =		QS = A					SILENT CANYON - NORTH
26	DEPTH =	15.23 KM		ERZ =	1.5	NM =				QD = B					
26	BMT	EPD	1 29 0.15					26 2.0	9.4	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 1.4	31.3	57	114	5.98	5.91	0.07	
26	BGB	EPD	1 29 2.80						35.2	149	112	6.33	6.49	-0.12	
26	GLR	EPD	1 29 3.28						38.7	108	110	6.81	7.03	-0.08	
26	NMN	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 1.4	44.9	325	107	8.06	7.99	0.06	
26		ESD	1 29 10.30									13.83	13.99	-0.16	
26	SSP	EPD	1 29 4.47					22 2.0	46.7	156	107	8.00	8.27	-0.27	
26	LOP	EPD	1 29 6.25					21 2.0	55.7	155	104	9.78	9.68	0.09	
26	BPO	EPD	1 29 7.32						63.1	196	102	10.85	10.84	0.00	
26	SGV	EPD	1 29 7.67					19 1.9	64.6	236	102	11.20	11.09	0.11	

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. 26	LSM	EP 4	1 29 8.99					25 2.2	64.9	167	102	12.52	11.13	1.38	
. 26	MCA	EPU	1 29 14.44						105.3	226	53	17.97	17.11	0.86	
.....															
AUG H = 2 40 29.08 UTC RMS = 0.12 NO = 9 FREE DEPTH SOLUTION															
. 26	LAT = 37.298 N			ERX =	0.6	ERH =	0.8	AVFM =	1.8	Q = B					
. 26	LONG = 116.455 W			ERY =	0.6	GAP =	138	AVXM =		QS = A		SILENT CANYON - NORTH			
. 26	DEPTH = 14.22 KM			ERZ =	1.1	NM =				QD = C					
.....															
. 26	BMT	EPU	2 40 32.25						7.1	257	152	3.17	2.77	0.00	
. 26	EPN	EPU	2 40 32.50				29	2.1	14.9	129	132	3.42	3.56	-0.14	
. 26	FSU	EPD	2 40 35.48									6.40	6.23	0.17	
. 26	BGB	EPD	2 40 35.55				21	1.9	35.2	145	110	6.47	6.44	0.08	
. 26	NMN	EPD	2 40 36.17						40.2	233	108	7.09	7.21	-0.12	
. 26	GLR	EPD	2 40 36.08				13	1.5	40.3	106	108	7.00	7.23	-0.08	
. 26	CTS	EPU	2 40 37.14				8	1.1	44.9	328	106	8.06	7.94	0.12	
. 26	ESD	EPD	2 40 42.93									13.85	13.89	-0.04	
. 26	SGV	EPD	2 40 40.28				16	1.8	62.2	236	102	11.20	10.67	0.53	
. 26	PRN	EP 4	2 40 50.70				21	2.2	125.0	84	53	21.62	19.76	1.86	
.....															
AUG H = 10 15 44.92 UTC RMS = 0.08 NO = 8 FREE DEPTH SOLUTION															
. 26	LAT = 37.302 N			ERX =	0.3	ERH =	1.0	AVFM =	1.8	Q = C					
. 26	LONG = 116.433 W			ERY =	0.9	GAP =	210	AVXM =		QS = A		SILENT CANYON - NORTH			
. 26	DEPTH = 14.80 KM			ERZ =	1.4	NM =				QD = D					
.....															
. 26	BMT	EPU	10 15 48.38				21	1.8	9.2	257	147	3.46	3.02	0.04	
. 26	BGB	EPD	10 15 51.27				24	2.0	34.5	148	111	6.35	6.37	0.03	
.....															
. 26	GLR	EPD	10 15 51.69				13	1.5	38.5	107	109	6.77	6.98	-0.06	
. 26	NMN	EPD	10 15 52.43				13	1.5	42.1	234	108	7.51	7.53	-0.02	
. 26	BRO	EPU	10 15 55.65				25	2.1	62.3	196	102	10.73	10.70	0.03	
. 26	SGV	EPD	10 15 55.94				14	1.6	64.1	236	102	11.02	10.99	0.03	
. 26	ESD	EPD	10 16 4.00									19.08	19.24	-0.16	
. 26	GVN	EPD	10 15 59.82				21	2.1	87.4	248	99	14.90	14.72	0.18	
.....															
AUG H = 11 18 13.83 UTC RMS = 0.04 NO = 7 FREE DEPTH SOLUTION															
. 26	LAT = 36.410 N			ERX =	0.2	ERH =	0.3	AVFM =	1.3	Q = B					
. 26	LONG = 116.291 W			ERY =	0.2	GAP =	107	AVXM =		QS = A		ASH MEADOWS			
. 26	DEPTH = 1.13 KM			ERZ =	0.7	NM =				QD = C					
.....															
. 26	AMR	EPU	11 18 16.95				11	1.3	16.5	265	38	3.1	3.15	-0.03	
. 26	JON	IPU	11 18 17.04				11	1.3	17.2	79	38	3.2	3.27	-0.06	
. 26	SDH	EPD	11 18 18.65				5	0.6	26.4	351	38	4.82	4.77	0.05	
. 26	NOP	EPU	11 18 19.81				10	1.2	33.7	158	38	5.98	5.95	0.03	
. 26	LSM	EPU	11 18 20.33				16	1.7	36.5	3	38	6.50	6.41	0.09	
. 26	ESU	EPD	11 18 25.03									11.20	11.21	-0.02	
. 26	MCY	EPD	11 18 20.89				16	1.7	40.6	47	38	7.06	7.07	-0.01	
.....															
AUG H = 11 18 58.51 UTC RMS = 0.07 NO = 3 FIXED DEPTH SOLUTION															
. 26	LAT = 36.807 N			ERX =		ERH =		AVFM =	1.2	Q = C		DEPTH CONTROL INADEQUATE			
. 26	LONG = 116.305 W			ERY =		GAP =	212	AVXM =		QS = A		LATHROP WELLS			
. 26	DEPTH = 5.00 KM			ERZ =		NM =				QD = D					
.....															
. 26	TMO	EP	11 19 14.90				7	1.2	98.4	270	92	16.39	16.37	0.02	
. 26	NPN	EPD	11 19 22.93				8	1.5	153.5	52	53	24.42	24.37	0.05	
. 26	DLM	EP	11 19 24.20				5	1.1	164.9	57	53	25.69	25.85	-0.16	
.....															
AUG H = 2 10 26.29 UTC RMS = 0.11 NO = 3 FIXED DEPTH SOLUTION															
. 28	LAT = 36.744 N			ERX =		ERH =		AVFM =	1.6	Q = C		DEPTH CONTROL INADEQUATE			
. 28	LONG = 115.981 W			ERY =		GAP =	223	AVXM =		QS = A		MERCURY			
. 28	DEPTH = 5.00 KM			ERZ =		NM =				QD = D					
.....															
. 28	MCY	IPU	2 10 28.25				16	1.6	9.3	170	112	1.96	1.98	-0.01	
. 28	LDP	EPD	2 10 30.21						20.6	306	100	3.92	3.75	0.17	
. 28	LSM	EP	2 10 30.76				15	1.6	26.0	269	98	4.47	4.61	-0.14	
.....															
AUG H = 17 12 28.53 UTC RMS = 0.19 NO = 10 FREE DEPTH SOLUTION															
. 28	LAT = 36.801 N			ERX =	0.5	ERH =	0.7	AVFM =	1.5	Q = C					
. 28	LONG = 116.008 W			ERY =	0.5	GAP =	94	AVXM =		QS = C		LATHROP WELLS			
. 28	DEPTH = 2.14 KM			ERZ =	23.8	NM =				QD = C					
.....															
. 28	CPX	EPU	17 12 31.07				12	1.3	14.9	342	92	2.54	2.77	-0.23	

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. 28	LOP	EPU	17 12 31.30					20 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	SDH	EP	17 12 34.60						34.2	240	90	6.07	5.91	0.16	.
. 28	JON	EPU	17 12 35.82					8 1.1	41.0	192	90	7.29	7.02	0.27	.
. 28	BRO	EPU4	17 12 45.50					7 1.0	55.3	266	90	16.97	9.34	7.63	.
. 28	GMR	EPU	17 12 39.29					16 1.8	62.8	20	90	10.76	10.56	0.20	.
. 28	NMN	EPU	17 12 41.30					12 1.6	78.6	293	90	12.77	13.13	-0.36	.
. 28	SHRG	EPU	17 12 42.39					8 1.2	83.0	113	90	13.86	13.85	0.05	.
.....															
. AUG H = 5 1 30.09 UTC RMS = 0.11 NO = 17 FREE DEPTH SOLUTION															
. 29 LAT = 36.978 N ERX = 0.2 ERH = 0.4 AVFM = 2.1 Q = C															
. LONG = 116.730 W ERY = 0.4 GAP = 89 AVXM = QS = B CHLORIDE CLIFF															
. DEPTH = 6.04 KM ERZ = 2.6 NM = QD = C															
.....															
. 29	NMN	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					34 2.4	48.7	123	95	8.25	8.31	-0.05	.
. 29	SDH	IPD	5 1 38.69					20 1.9	50.9	137	95	8.60	8.65	-0.05	.
. 29	LOP	EPU	5 1 39.05					27 2.2	52.0	105	95	8.96	8.84	0.13	.
. 29	GVN	EPU	5 1 39.34					25 2.1	54.6	273	95	9.25	9.25	0.00	.
. 29	GMN	EPU	5 1 39.87					16 1.7	59.1	307	94	9.78	9.99	-0.20	.
. 29	MCA	EPU	5 1 40.50					18 1.9	61.3	233	94	10.41	10.34	0.07	.
. 29	GLR	EPD4	5 1 40.69					19 1.9	67.9	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	JON	EPD	5 1 43.56					13 1.6	81.9	137	93	13.47	13.69	-0.22	.
. 29	LCH	EP	5 1 44.75					25 2.2	86.4	289	93	14.66	14.41	0.25	.
. 29	GMR	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	16.45	-0.10	.
.....															
. AUG H = 5 54 32.24 UTC RMS = 0.06 NO = 5 FREE DEPTH SOLUTION															
. 29 LAT = 36.835 N ERX = 1.3 ERH = 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	LOP	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 H = 20 48 3.44 UTC RMS = 0.19 NO = 10 FREE DEPTH SOLUTION															
. 29 LAT = 36.094 N ERX = 2.3 ERH = 3.0 AVFM = 2.8 Q = D															
. LONG = 117.707 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	EPU4	20 48 14.30					49 2.8	72.4	32	38	10.86	12.31	-1.45	.
. 29	QSM	EPU	20 48 16.45					46 2.7	77.0	101	38	13.01	13.05	-0.04	.
. 29	TMD	EPD	20 48 17.30					44 2.7	83.3	19	38	13.86	14.09	-0.23	.
. 29	FMT	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	LCH	EPU	20 48 24.43					45 2.9	126.7	2	38	20.99	21.13	-0.15	.
. 29	NMN	EPU	20 48 26.25					44 2.9	135.3	36	30	22.81	22.53	0.28	.
. 29	CDH1	EPD	20 48 28.36					46 3.0	150.7	56	30	24.92	24.54	0.38	.
. 29	BGB	EPD4	20 48 31.12					48 3.1	168.8	52	30	27.68	26.88	0.85	.
.....															
. AUG H = 19 18 6.73 UTC RMS = 0.08 NO = 6 FREE DEPTH SOLUTION															
. 30 LAT = 37.123 N FRX = 0.7 ERH = 1.0 AVFM = 2.3 Q = C															
. LONG = 117.417 W ERY = 0.8 GAP = 148 AVXM = QS = B MT. JACKSON															
. DEPTH = 8.90 KM ERZ = 4.0 NM = QD = C															
.....															
. 30	GVN	IPU	19 18 9.85					35 2.3	15.0	154	117	3.12	3.08	0.04	.
. 30	LCH	FPU	19 18 11.10					32 2.2	23.9	301	108	4.37	4.42	-0.05	.
. 30	GMN	EPD	19 18 11.10					34 2.3	24.1	35	107	4.37	4.46	-0.09	.
. 30	MGM	FPU	19 18 13.16					35 2.3	36.0	349	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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30	NMN	EPU	19 18 15.75				35	2.4	53.5	95	98	9.02	9.12	-0.10	
.....															
SEP H = 1 31 17.90 UTC RMS = 0.04 NO = 7 FREE DEPTH SOLUTION															
03 LAT = 37.192 N ERX = 0.4 ERH = 0.5 AVFM = 2.0 Q = B															
LONG = 117.571 W ERY = 0.3 GAP = 169 AVXM = QS = A MAGRUDER MOUNTAIN															
DEPTH = 6.89 KM ERZ = 1.1 NM = QD = C															
.....															
03	LCH	IPU	1 31 19.86				23	1.9	8.3	305	126	1.96	1.97	-0.01	
03	MGM	EPD	1 31 23.00				16	1.6	28.4	13	101	5.10	5.06	0.04	
03	GVN	EPD	1 31 23.13				24	2.0	29.3	136	100	5.23	5.20	0.03	
03	GMN	EPU	1 31 23.22				22	1.9	30.1	67	100	5.32	5.33	-0.01	
03	PPK	IPD	1 31 24.71				20	1.9	39.5	311	98	6.81	6.84	-0.03	
03	SGV	IPU	1 31 27.00				22	2.0	53.3	116	96	9.10	9.06	0.04	
03	NMN	EPU	1 31 29.20				26	2.2	68.1	100	94	11.30	11.45	-0.15	
03	MCY	IPD	1 31 43.60				31	2.7	155.0	112	53	25.70	24.38	1.32	
.....															
SEP H = 1 31 18.04 UTC RMS = 0.09 NO = 11 FREE DEPTH SOLUTION															
03 LAT = 37.195 N ERX = 0.4 ERH = 0.6 AVFM = 2.2 Q = B															
LONG = 117.567 W ERY = 0.4 GAP = 165 AVXM = QS = A MAGRUDER MOUNTAIN															
DEPTH = 4.13 KM ERZ = 1.6 NM = QD = C															
.....															
03	LCH	IPU	1 31 19.86				23	1.9	8.4	302	109	1.82	1.78	0.04	
03	MGM	EPD	1 31 23.00				16	1.6	28.1	13	95	4.96	4.94	0.03	
03	GVN	EPD	1 31 23.13				24	2.0	29.3	137	95	5.09	5.13	-0.04	
03	GMN	EPU	1 31 23.22				22	1.9	29.7	67	95	5.18	5.20	-0.02	
03	PPK	IPD	1 31 24.71				20	1.9	39.6	310	94	6.67	6.81	-0.13	
03	TMO	EPD4	1 31 25.40				23	2.0	45.5	162	93	7.36	7.76	-0.39	
03	SGV	IPU	1 31 27.00				22	2.0	53.1	116	93	8.96	9.00	-0.04	
03	NMN	EPU4	1 31 29.20				26	2.2	67.8	101	92	11.16	11.38	-0.22	
03	CTS	EPU4	1 31 43.67						89.4	56	92	25.63	14.91	10.73	
03	BRO	IPD	1 31 34.10				21	2.1	96.6	120	91	16.06	16.07	-0.01	
03	CDH1	EPD	1 31 37.60				21	2.2	117.3	108	91	19.56	19.45	0.12	
03	SSP	EPU	1 31 38.50				33	2.6	123.6	104	90	20.46	20.45	0.02	
03	LSM	EPD	1 31 39.10				39	2.8	125.9	114	90	21.06	20.83	0.24	
03	LOP	EPU	1 31 39.80				30	2.5	130.2	107	53	21.76	21.42	0.34	
03	MCY	EPD4	1 31 43.57				34	2.7	154.8	112	53	25.53	24.62	0.91	
.....															
SEP H = 5 11 50.84 UTC RMS = 0.11 NO = 8 FREE DEPTH SOLUTION															
05 LAT = 36.714 N ERX = 1.1 ERH = 1.2 AVFM = 0.9 Q = C															
LONG = 116.342 W ERY = 0.4 GAP = 190 AVXM = QS = B LATHROP WELLS															
DEPTH = 5.34 KM ERZ = 2.0 NM = QD = D															
.....															
05	LSM	IPD	5 11 52.64				11	1.2	6.9	66	122	1.80	1.64	0.16	
05	SDH	IPU	5 11 52.65				5	0.6	7.6	178	119	1.81	1.74	0.07	
	ESD		5 11 53.79									2.95	3.05	-0.10	
05	CDH5	EP	5 11 53.80				6	0.7	16.4	8	104	2.96	3.09	-0.13	
	ESD		5 11 56.07									5.23	5.41	-0.18	
05	CDH1	EPU	5 11 54.06				9	1.1	16.4	8	104	3.22	3.09	0.13	
05	LOP	EPU	5 11 54.91						22.0	45	100	4.07	3.99	0.09	
05	MCY	EPU	5 11 56.80						34.4	100	96	5.96	5.98	-0.02	
.....															
SEP H = 11 42 38.18 UTC RMS = 0.10 NO = 4 FREE DEPTH SOLUTION															
05 LAT = 36.845 N ERX = ERH = AVFM = 1.0 Q = C															
LONG = 116.261 W ERY = GAP = 198 AVXM = QS = A LATHROP WELLS															
DEPTH = 1.20 KM ERZ = NM = QD = D															
.....															
05	LOP	EPD	11 42 39.98				9	1.1	8.4	83	38	1.80	1.82	-0.02	
05	SSP	EPU	11 42 40.19				7	0.9	9.7	23	38	2.01	2.03	-0.02	
05	LSM	EPU	11 42 40.71				8	1.0	11.8	185	38	2.53	2.37	0.16	
	ESD		11 42 42.21									4.03	4.15	-0.11	
.....															
SEP H = 14 59 59.92 UTC RMS = 0.20 NO = 19 FREE DEPTH SOLUTION															
11 LAT = 36.967 N ERX = 0.6 ERH = 0.7 AVFM = 2.7 Q = B															
LONG = 116.161 W ERY = 0.4 GAP = 135 AVXM = QS = B LATHROP WELLS															
DEPTH = 0.11 KM ERZ = 1.1 NM = QD = B															
.....															
11	SSP	IPU	15 0 1.40				90	3.1	6.9	228	38	1.48	1.80	-0.32	
11	BGH	IPU	15 0 1.78				75	2.9	9.8	323	38	1.86	2.78	-0.37	
11	LOP	EPU	15 0 2.60				76	2.9	12.5	182	38	2.68	2.72	-0.04	
11	CDH1	EPD4	15 0 3.12				44	2.5	18.5	250	38	3.20	3.65	-0.45	

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SEP 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
11	CDH5	EPD	15 0 3.30						18.3	230	38	3.38	3.65	-0.27	.
11	LSM	FPU	15 0 4.87				87	3.1	27.1	201	38	4.95	5.09	-0.14	.
11	GLR	EPD	15 0 5.03				73	3.0	28.8	26	38	5.11	5.36	-0.10	.
11	EPN	EPD	15 0 5.65				92	3.2	31.0	332	38	5.73	5.72	0.01	.
11	SDH	EPD	15 0 6.70				47	2.6	39.0	204	38	6.78	7.02	-0.24	.
	ESU		15 0 12.00									*****	*****	-0.21	.
11	SPRG	EPD4	15 0 8.35				52	2.7	43.6	134	38	8.43	7.78	0.65	.
11	BMT	EPD4	15 0 9.83				45	2.6	48.3	317	38	9.91	8.53	0.98	.
11	GMR	EPD	15 0 9.34				40	2.5	53.5	40	38	9.42	9.37	0.04	.
11	BLT	EPD2	15 0 9.90				41	2.5	54.9	2	38	9.98	9.61	0.37	.
	ISU		15 0 16.87									*****	*****	0.13	.
11	JON	EPD	15 0 10.46				41	2.6	58.7	175	38	10.54	10.23	0.31	.
11	NMN	EPD	15 0 10.65				40	2.5	59.8	282	38	10.73	10.41	0.32	.
11	SGV	EPD	15 0 13.37						77.5	271	38	13.45	13.29	0.16	.
	ESU4		15 0 20.62									*****	*****	-2.56	.
11	CTS	EPD	15 0 15.42				27	2.3	89.9	326	38	15.50	15.30	0.20	.
11	QCS	EPD4	15 0 16.80				30	2.4	91.5	14	38	16.88	15.56	1.32	.
	ESU		15 0 26.95									*****	*****	-0.20	.
11	GVN	EPD	15 0 18.08						105.2	272	38	18.16	17.79	0.37	.
	ESU		15 0 31.30									*****	*****	0.25	.
11	PRN	EPD4	15 0 19.80				45	2.8	110.1	64	38	19.88	18.59	1.29	.
11	MTI	EPD4	15 0 17.00				36	2.6	111.4	45	38	17.08	18.80	-1.52	.
11	TMO	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 = 0.30 NO = 7 FREE DEPTH SOLUTION  
 11 LAT = 36.589 N EXR = 2.4 ERH = 2.7 AVFM = 1.8 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	JON	IPD	20 58 6.45				18	1.7	16.8	169	117	3.39	3.40	-0.01	.
11	SDH	IPD4	20 58 7.94				17	1.7	19.0	289	114	4.88	3.71	1.17	.
11	LSM	EPD	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	29.5	355	106	4.65	5.33	-0.68	.
11	SPRG	IPD	20 58 8.84				13	1.5	31.6	68	105	5.78	5.66	0.12	.
11	CDH1	EPD	20 58 9.06				17	1.7	34.1	332	104	6.00	6.05	-0.05	.
11	SSP	EPD3	20 58 8.92				20	1.9	38.0	349	102	5.86	6.66	-0.80	.
11	NCP	EPD	20 58 11.85				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 EXR = 0.5 ERH = 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	CDH1	IPD	22 19 10.95				25	2.0	25.5	4	100	4.62	4.56	0.06	.
11	CDH5	EPD	22 19 11.00				22	1.9	25.5	4	100	4.67	4.56	0.11	.
11	AMR	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	BRO	EPD	22 19 11.50				22	1.9	29.4	300	99	5.17	5.18	-0.02	.
11	JON	IPD	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	EPD	22 19 13.00				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 EXR = 0.2 ERH = 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	EPD	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	JON	EPD	2 21 45.35				56	2.9	68.6	241	38	11.71	11.80	-0.09	.
12	GMR	EPD	2 21 45.90				69	3.1	72.3	335	38	12.26	12.40	-0.14	.
12	GLR	EPD	2 21 45.95				57	2.9	72.7	314	38	12.31	12.47	-0.01	.
12	SSP	IPD4	2 21 47.00				87	3.3	73.0	286	38	13.36	12.51	0.85	.
12	LSM	EPD	2 21 46.50				90	3.3	74.9	270	38	12.86	12.83	0.03	.
12	BGB	EPD	2 21 46.86				58	2.9	78.1	295	38	13.22	13.34	-0.07	.
12	CDH1	EPD	2 21 47.30				45	2.7	80.0	280	38	13.66	13.65	0.01	.
12	CDH1	EPD	2 21 47.32						80.0	280	38	13.68	13.65	0.03	.
12	CDH5	EPD	2 21 47.30						80.0	280	38	13.66	13.65	0.01	.
12	PRN	EPD	2 21 47.50						81.4	25	38	13.86	13.87	-0.02	.
12	SDH	EPD	2 21 47.75				56	2.9	81.6	263	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	DLH	EPD4	2 21 54.10				36	2.6	114.1	33	38	20.46	19.19	1.27	.



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SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	X MAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RCS (SEC)	REMARKS
.		ESD4	2 22 9.17									35.53	33.58	1.95	
.	12	KRNA EPD	2 21 57.36				68	3.3	140.0	323	30	23.72	23.76	0.46	
.		ESD	2 22 15.20									41.56	40.70	0.86	
.	12	CTS EPU4	2 21 59.30				46	3.0	152.0	311	30	25.66	24.82	0.84	
.		ESU4	2 22 18.95									45.31	43.43	1.88	
.	12	QSM EPU2	2 21 59.47						154.9	236	30	25.83	25.18	0.64	
.	12	TPO EPU4	2 22 0.30				43	3.0	176.4	272	30	26.66	27.98	-1.32	
.		ESD4	2 23 18.37									104.73	48.96	55.76	

SEP H = 7 41 56.44 UTC RMS = 0.15 NO = 19 FREE DEPTH SOLUTION  
 12 LAT = 37.286 N ERX = 0.6 ERH = 0.9 AVFM = 2.8 Q = C  
 LONG = 115.003 W ERY = 0.7 GAP = 193 AVXM = QS = B ALAMO  
 DEPTH = 2.83 KM ERZ = 1.2 NM = QD = D

.	12	PRN IPU	7 41 59.10			80	3.0	14.0	343	95		2.66	2.64	0.01	
.	12	NPN IPU	7 42 3.55			66	2.9	41.1	8	92		7.11	7.04	0.07	
.	12	DLM EPD	7 42 3.60			45	2.6	42.5	33	92		7.16	7.26	-0.11	
.	12	MTI IPU	7 42 4.70			54	2.8	49.5	331	91		8.26	8.41	0.05	
.	12	TPU EPD	7 42 7.57			50	2.8	67.3	302	90		11.13	11.29	-0.17	
.	12	GMR EPU	7 42 7.45			51	2.8	68.3	274	90		11.01	11.46	-0.46	
.	12	GLR EPU	7 42 11.35			40	2.7	90.6	264	90		14.91	15.09	-0.03	
.	12	QCS EPD4	7 42 13.80			48	2.8	96.9	303	90		17.36	16.10	1.25	
.	12	BLT EPD	7 42 14.00			40	2.7	102.1	281	90		17.56	16.96	0.60	
.	12	LCP EPD	7 42 15.70			50	2.9	114.1	245	90		19.26	18.91	0.35	
.	12	SSP EPD	7 42 15.30			52	3.0	115.3	250	90		18.86	19.10	-0.24	
.	12	EPN EPD	7 42 16.00			71	3.2	117.4	266	90		19.56	19.44	0.12	
.	12	LSM EPD	7 42 17.58			55	3.1	128.3	242	90		21.14	21.21	-0.07	
.	12	KRNA EPD	7 42 18.45			45	2.9	132.3	293	53		22.01	21.82	0.19	
.		ISU	7 42 34.50									38.06	38.18	-0.13	
.	12	JON EPD	7 42 18.73			36	2.7	135.8	226	53		22.29	22.28	0.01	
.	12	SDH EPD	7 42 18.90			35	2.7	138.5	239	53		22.46	22.63	-0.17	
.		ESD	7 42 36.85									40.41	39.61	0.80	
.	12	BRO IPU	7 42 21.40			34	2.7	155.7	248	53		24.96	24.86	0.10	
.	12	FMT IPU	7 42 24.00			33	2.8	173.6	246	53		27.56	27.19	0.47	

SEP H = 5 54 25.67 UTC RMS = 0.19 NO = 11 FREE DEPTH SOLUTION  
 13 LAT = 37.134 N ERX = 0.9 ERH = 1.0 AVFM = 2.3 Q = C  
 LONG = 116.325 W ERY = 0.5 GAP = 162 AVXM = QS = B SILENT CANYON - PAHUTE MESA  
 DEPTH = 9.43 KM ERZ = 2.4 NM = QD = C

.	13	EPN IPU	5 54 28.06			60	2.7	8.9	1	134		2.39	2.32	0.08	
.	13	BGB IPU	5 54 28.49			26	2.0	13.7	141	121		2.82	2.94	-0.07	
.	13	GLR EPU	5 54 30.49			32	2.2	28.3	75	106		4.82	5.12	-0.15	
.	13	CPX IPD	5 54 31.85			27	2.1	32.9	134	104		6.18	5.85	0.33	
.	13	LOP EPU	5 54 31.54			57	2.8	34.1	156	103		5.87	6.04	-0.17	
.	13	BLT EPD	5 54 32.78			21	1.9	40.1	25	101		7.11	6.99	0.12	
.		ISD	5 54 38.07									12.40	12.24	0.17	
.	13	LSM EPU4	5 54 31.57			53	2.7	44.1	174	100		5.90	7.63	-1.73	
.	13	NMN IPU4	5 54 31.80			30	2.2	44.2	262	100		6.13	7.65	-1.52	
.	13	GMR EPU	5 54 34.50			26	2.1	54.0	66	98		8.83	9.22	-0.39	
.	13	CTS EPU3	5 54 37.38			17	1.8	66.4	328	97		11.71	11.23	0.49	
.		ESU	5 54 45.26									19.59	19.65	-0.05	
.	13	JON EPU	5 54 39.03			25	2.2	79.5	166	96		13.36	13.35	0.02	

SEP H = 10 48 38.14 UTC RMS = 0.34 NO = 9 FREE DEPTH SOLUTION  
 13 LAT = 37.555 N ERX = 1.4 ERH = 1.8 AVFM = 2.3 Q = C  
 LONG = 115.835 W ERY = 1.1 GAP = 95 AVXM = QS = C WORTHINGTON PEAK  
 DEPTH = 0.12 KM ERZ = 15.1 NM = QD = C

.	13	TPU EPU	10 48 41.06			35	2.3	17.3	71	38		2.92	3.50	-0.57	
.	13	QCS EPU	10 48 42.77			19	1.8	24.7	343	38		4.63	4.69	-0.06	
.	13	GMR IPD	10 48 42.89			24	2.0	25.2	167	38		4.75	4.77	-0.02	
.	13	BLT EPD	10 48 43.65			42	2.5	28.5	249	38		5.51	5.31	0.20	
.	13	EPN EPD	10 48 47.68			37	2.5	57.5	229	38		9.54	10.02	-0.48	
.	13	BGB EPU	10 48 50.23			26	2.2	67.1	211	38		12.09	11.59	0.55	
.		ESD	10 49 0.35									22.21	20.20	2.02	
.	13	PRN EPU4	10 48 44.15			42	2.6	71.3	103	38		6.01	12.28	-6.27	
.	13	EPR EPU4	10 48 46.35			32	2.4	71.7	127	38		8.21	12.33	-4.12	
.	13	CPX EPU4	10 48 54.75			32	2.4	72.2	196	38		16.61	12.43	4.19	
.		ISD4	10 49 7.33									29.19	21.75	7.45	
.	13	SRG EPD4	10 48 53.55			37	2.5	76.8	62	38		15.41	13.16	2.25	
.	13	NPN EPU	10 48 52.00			42	2.7	80.0	82	38		13.86	13.69	0.17	
.	13	DLM EP	10 48 55.30			20	2.1	97.0	87	38		17.16	16.45	0.72	
.	13	LSM EPU4	10 48 51.65			30	2.4	98.5	203	38		13.51	16.70	-3.18	
.		ISD4	10 49 1.91									23.77	29.22	-5.45	

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SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DLG)	TOBS (SEC)	TCAL (SEC)	RES (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 =	115.440 W	ERY =	0.8	GAP =	128	AVXM =		QS = B	ALAMO					
	DEPTH =	0.07 KM	ERZ =	1.9	NM =				QD = C						
13	EPR	IPU	14 58 22.95				50	2.6	22.5	88	38	4.28	4.35	-0.07	
13	GMR	EPU4	14 58 28.41				29	2.2	35.1	303	38	9.74	6.39	3.35	
13	PRN	IPU	14 58 26.65				70	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 30.88				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	OLM	EPU4	14 58 30.80				36	2.5	79.3	52	38	12.13	13.58	-1.45	
13	QCS	EPU	14 58 32.00				29	2.3	79.4	328	38	13.33	13.59	-0.27	
	ESU	14 58 42.70										24.03	23.79	0.24	
13	CDH5	EPD4	14 58 34.33				24	2.2	85.0	247	38	15.66	14.51	1.15	
	ESU	14 58 43.85										25.18	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	SDH	IPD	14 58 35.55				37	2.6	98.4	234	38	16.88	16.70	0.18	
13	JON	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 =	36.825 N	ERX =	1.1	ERH =	1.1	AVFM =	1.9	Q = C						
	LONG =	115.954 W	ERY =	0.3	GAP =	133	AVXM =		QS = C	MERCURY					
	DEPTH =	9.42 KM	ERZ =	6.7	NM =				QD = C						
14	LOP	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	CDH1	EPU	14 19 23.70						32.7	277	104	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	JON	EPU4	14 19 26.75				15	1.6	44.8	197	100	8.88	7.75	1.13	
14	GMR	EPU	14 19 27.78				15	1.7	58.7	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 =		QS = D	WARM SPRINGS					
	DEPTH =	0.34 KM	ERZ =	5.8	NM =				QD = D						
17	KRNA	IPD	4 48 46.89				33	2.3	35.7	203	38	6.38	6.43	-0.05	
17	QCS	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				24	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				30	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	15.10	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	SRG	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	180	38	19.38	18.82	0.61	
	ESD	4 49 12.15										31.64	32.85	-1.21	
17	NMN	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 =		QS = C	CHLORIDE CLIFF					
	DEPTH =	6.68 KM	ERZ =	10.1	NM =				QD = D						
18	CDH1	IPD	11 13 51.35				15	1.6	26.7	119	101	4.62	4.77	-0.15	
18	CDH5	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	BGB	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	FPD4	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 57.07										10.34	11.55	-1.20	
18	LOP	IPU	11 13 53.50				25	2.1	39.2	110	97	6.77	6.77	0.00	
18	SCH	FPD4	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	PCY	EPD	11 13 57.80				23	2.1	65.3	122	94	11.07	11.00	0.08	

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SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SFC)	TCAL (SEC)	RES (SEC)	REMARKS
.....															
SEP H = 18			0 43.94	UTC	RMS = 0.06	NO = 7	FREE DEPTH SOLUTION								
19 LAT =			36.711 N		ERX = 0.2	ERH = 0.3	AVFM = 2.7	Q = B							
LONG =			116.941 W		ERY = 0.3	GAP = 155	AVXM =	QS = A	CHLORIDE CLIFF						
DEPTH =			1.00 KM		ERZ = 0.8	NM =		QD = C							
.....															
19	FMT	IPU	18 0 46.70			64	2.8	16.5	119	38	2.76	3.19	-0.32		
19	BRO	EPD	18 0 49.09			60	2.8	28.8	79	38	5.15	5.18	-0.03		
19	PGE	IPD	18 0 51.26			59	2.8	41.8	196	38	7.32	7.29	0.04		
19	TMO	EPD	18 0 51.42			58	2.8	42.9	284	38	7.48	7.48	0.00		
19	SDH	EPU	18 0 53.25			38	2.5	54.4	98	38	9.31	9.34	-0.03		
	ISU		18 1 0.42								16.48	16.34	0.14		
19	NOP	EPU	18 0 59.90			41	2.7	95.9	132	38	15.96	16.09	-0.12		
.....															
SEP H = 18			0 47.59	UTC	RMS = 0.49	NO = 9	FIXED DEPTH SOLUTION								
19 LAT =			36.389 N		ERX = 8.6	ERH = 14.0	AVFM = 2.9	Q = D	DEPTH CONTROL INADEQUATE						
LONG =			117.005 W		ERY = 11.0	GAP = 230	AVXM =	QS = D	PANAMINT BUTTE						
DEPTH =			5.00 KM		ERZ = 188.6	NM =		QD = D							
.....															
19	MCA	EPD	18 0 54.43			47	2.6	37.9	319	95	6.84	6.53	0.31	SAME AS ABOVE	
19	AMR	EPU	18 0 55.26			35	2.4	47.6	89	94	7.67	8.12	-0.45		
19	SGV	IPU	18 0 57.95			80	3.2	65.7	358	93	10.36	11.05	-0.69		
19	GVN	IPD4	18 0 58.27			82	3.2	74.3	336	93	10.68	12.45	-1.77		
19	LSM	EPD	18 1 0.79			74	3.1	76.2	59	93	13.20	12.76	0.44		
.....															
19	NMN	EPD	18 1 0.63			60	3.0	78.5	12	92	13.04	13.14	-0.09		
19	JON	EPU	18 1 0.61			29	2.3	81.1	86	92	13.02	13.56	-0.53		
19	LOP	EPD	18 1 3.47			47	2.8	91.0	55	92	15.88	15.16	0.72		
19	SSP	EPD	18 1 3.67			46	2.8	92.1	50	92	16.08	15.34	0.75		
19	BGB	IPU4	18 1 5.11			63	3.1	100.0	44	92	17.52	16.63	0.94		
19	LCH	EPD4	18 1 2.87			42	2.8	109.9	329	92	15.28	18.24	-2.96		
19	SPRG	EPD	18 1 6.45			65	3.1	112.4	72	92	18.86	18.64	0.22		
19	GMR	EPD4	18 1 13.72			48	3.0	151.9	46	53	26.13	24.16	1.97		
.....															
SEP H = 17			22 51.58	UTC	RMS = 0.14	NO = 14	FREE DEPTH SOLUTION								
22 LAT =			37.245 N		ERX = 0.4	ERH = 0.6	AVFM = 3.0	Q = A							
LONG =			116.474 W		ERY = 0.4	GAP = 77	AVXM =	QS = A	SILENT CANYON - NORTH						
DEPTH =			8.75 KM		ERZ = 1.4	NM =		QD = A							
.....															
22	BMT	EPD	17 22 54.14			139	3.4	6.8	309	139	2.56	2.00	0.16		
22	EPN	IPD	17 22 54.30			126	3.4	13.8	104	119	2.72	2.89	-0.17		
22	BGB	EPD	17 22 56.95			90	3.1	31.7	136	103	5.37	5.64	-0.22		
22	NMN	EPD	17 22 57.72			93	3.2	35.6	239	102	6.14	6.25	-0.11		
22	BLT	EPD	17 22 58.38			82	3.1	38.4	51	101	6.80	6.71	0.09		
22	GLR	EPU4	17 22 57.70			63	2.9	40.8	97	100	6.12	7.09	-0.82		
22	SSP	EPU	17 22 58.91			91	3.2	42.1	147	100	7.33	7.30	0.03		
22	CDH1	EPD	17 22 59.40			47	2.6	44.9	162	99	7.82	7.74	0.08		
22	CDH5	EPD	17 22 59.40			40	2.5	44.9	162	99	7.82	7.74	0.08		
22	CTS	EPU	17 23 0.06			60	2.9	49.2	333	98	8.48	8.44	0.05		
22	KRNA	EPU	17 23 1.06			89	3.2	56.7	8	97	9.48	9.64	-0.16		
22	SCV	EPD	17 23 1.44			74	3.1	57.6	239	97	9.86	9.79	0.07		
22	GMN	EPU	17 23 2.90			46	2.7	69.9	275	96	11.32	11.78	-0.46		
22	QCS	EPD	17 23 4.54			36	2.5	76.2	40	95	12.96	12.79	0.17		
22	MCY	EPD4	17 23 6.12			54	2.9	79.1	145	95	14.54	13.27	1.27		
22	GVN	EPU	17 23 5.40			67	3.1	81.8	251	95	13.82	13.71	0.11		
22	PPN	EPU4	17 23 13.56			57	3.1	127.5	82	53	21.98	20.63	1.35		
.....															
SEP H = 19			6 49.32	UTC	RMS = 0.14	NO = 10	FREE DEPTH SOLUTION								
22 LAT =			36.895 N		ERX = 0.6	ERH = 0.8	AVFM = 2.3	Q = C							
LONG =			116.813 W		ERY = 0.5	GAP = 110	AVXM =	QS = B	CHLORIDE CLIFF						
DEPTH =			0.51 KM		ERZ = 2.2	NM =		QD = C							
.....															
22	NMN	IPD	19 6 53.15			38	2.4	20.6	359	38	3.83	3.95	-0.12		
22	SGV	EPU	19 6 53.44			39	2.4	21.7	296	38	4.12	4.13	-0.01		
22	BRO	EPU	19 6 53.38			28	2.1	22.3	131	38	4.06	4.22	-0.16		
22	FMT	EPU	19 6 54.40			27	2.1	28.5	174	38	5.08	5.23	-0.05		
22	CDH5	EPU	19 6 57.15			26	2.1	44.4	95	38	7.83	7.81	0.02		
22	CDH1	IPU	19 6 57.26			27	2.1	44.4	95	38	7.94	7.81	0.13		
	ESU		19 7 3.10								13.78	13.67	0.11		
22	GVN	EPU	19 6 58.10			30	2.3	48.6	284	38	8.78	8.50	0.28		
22	LSM	EPU4	19 6 53.45			43	2.6	51.3	110	38	4.13	4.95	-4.82		
22	SSP	EPU4	19 6 57.55			42	2.6	53.1	86	38	8.23	9.24	-1.01		
22	BGB	EPU	19 6 59.13			25	2.1	54.5	73	38	9.81	9.46	0.40		
22	EPN	EPU	19 6 59.30			42	2.6	56.1	51	38	9.98	9.72	0.26		
22	LCP	EPU4	19 6 54.55			38	2.5	57.8	95	38	5.23	9.99	-4.76		
22	GMR	EPU4	19 7 8.00			22	2.2	104.7	62	38	18.68	17.62	1.06		

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SEP 1980	STA	PHASE	TIME (UTC)		AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TODS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
22	QCS	EPD4	19	7 12.22	28					125.3	39	38	22.90	20.98	1.92	
		ESU4	19	7 29.20									39.88	36.71	3.17	
.....																
SEP H = 21 28 40.70 UTC RMS = 0.09 NO = 6 FREE DEPTH SOLUTION																
22	LAT = 37.249 N			FRX = 0.7	ERH = 1.0	AVFM = 2.6	Q = C									
	LONG = 116.527 W			ERY = 0.7	GAP = 140	AVXM =	QS = B	THIRSTY CANYON								
	DEPTH = 8.65 KM			ERZ = 1.5	NM =		QD = C									
.....																
22	BMT	EPD	21	28 42.80			64	2.8	3.9	351	154		2.10	1.72	-0.02	
22	EPN	EPD4	21	28 43.00			77	3.0	18.4	102	112		2.30	3.57	-1.27	
22	NMN	EPD	21	28 46.35			63	2.8	31.9	234	103		5.65	5.66	-0.02	
22	BGB	EPD	21	28 46.94			59	2.8	35.4	131	102		6.24	6.23	0.06	
22	CTS	EPD	21	28 48.75			21	1.9	46.8	338	99		8.05	8.05	-0.00	
22	CDH1	EPD	21	28 48.55			37	2.4	47.0	157	99		7.85	8.08	-0.23	
.....																
22	SGV	EPD	21	28 50.00			37	2.5	53.9	237	98		9.30	9.19	0.11	
22	LOP	EPD4	21	28 51.11			29	2.2	54.2	144	97		10.41	9.24	1.17	
.....																
SEP H = 12 28 28.49 UTC RMS = 0.86 NO = 9 FREE DEPTH SOLUTION																
23	LAT = 36.907 N			ERX = 11.0	ERH = 14.0	AVFM = 1.8	Q = D									
	LONG = 115.816 W			ERY = 8.7	GAP = 230	AVXM =	QS = D	MERCURY								
	DEPTH = 12.22 KM			ERZ = 27.0	NM =		QD = D									
.....																
23	CPX	IPD	12	28 33.07			15	1.6	21.8	276	117		4.58	4.30	0.28	
23	SPRG	EPD	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	206	110		5.46	5.56	-0.10	
23	LOP	EPD	12	28 34.00			14	1.5	31.9	259	109		5.51	5.83	-0.31	
23	BGB	EPD	12	28 35.90			16	1.7	39.4	292	105		7.41	7.00	0.47	
23	LSM	IPD	12	28 36.06			20	1.9	44.8	245	104		7.57	7.84	-0.26	
23	CDH5	EPD	12	28 36.15					45.0	263	104		7.66	7.88	-0.21	
23	CDH1	EPD	12	28 36.23			13	1.5	45.0	263	104		7.74	7.88	-0.13	
23	APK	EPD	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	ERH = 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	EPD4	6	17 34.97			30	2.2	27.9	286	106		10.98	5.05	5.93	
24	CPX	EPD	6	17 32.50			17	1.8	51.3	317	99		8.51	8.79	-0.27	
24	LSM	EPD	6	17 33.40			27	2.2	56.8	287	98		9.41	9.67	-0.25	
24	SDH	EPD4	6	17 30.03			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	GMR	EPD	6	17 37.75			22	2.1	82.7	353	95		13.76	13.86	-0.10	
24	BMT	EPD4	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	NMN	EPD4	6	17 43.98			24	2.3	116.5	298	53		19.99	19.14	0.85	
24	MTI	EPD	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	ERH = 1.3	AVFM = 3.0	Q = C									
	LONG = 116.060 W			ERY = 0.8	GAP = 98	AVXM =	QS = C	SILENT CANYON - YUCCA FLAT								
	DEPTH = 1.10 KM			ERZ = 325.1	NM =		QD = C									
.....																
25	CPX	EPD	16	5 3.39			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	-0.44	
25	SSP	EPD	16	5 4.50			216	3.9	20.3	224	38		3.65	3.78	-0.13	COLLAP
25	LCP	EPD	16	5 5.37			305	4.2	24.5	203	38		4.52	4.46	0.06	
25	EPN	EPD	16	5 6.25			212	3.9	29.2	307	38		5.40	5.22	0.18	
25	CDH1	EPD	16	5 6.35			45	2.5	31.7	226	38		5.50	5.62	-0.12	
25	GMR	EPD	16	5 8.00			65	2.9	40.0	40	38		7.15	6.98	0.17	
25	BLT	EPD2	16	5 9.25			240	4.0	45.3	352	38		8.40	7.84	0.56	
25	JCN	EPD2	16	5 13.00			22	2.1	68.6	183	38		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	EPD	16	5 17.40			60	3.0	97.7	67	38		16.55	16.37	0.18	
25	MZP	EPD4	16	5 25.44			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			ERX = 0.6	ERH = 1.3	AVFM = 1.2	Q = D									
	LONG = 116.445 W			ERY = 1.2	GAP = 174	AVXM =	QS = C	LATHROP WELLS								

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SEP 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SFC)	TCAL (SEC)	RLS (SEC)	REMARKS
. DEPTH = 0.66 KM ERZ = 154.4 NM = QD = D .															
. 26	SDH	IPU	18 59 51.86					7 0.9	11.1	121	38	2.38	2.37	0.01	
. 26	LSM	IPU	18 59 52.64					14 1.5	16.2	73	38	3.16	3.20	-0.04	
. 26	BRO	EPU	18 59 52.86					13 1.4	17.7	295	38	3.38	3.45	-0.07	
. 26	CDH1	EPU4	18 59 55.82					6 0.8	21.5	32	38	6.34	4.06	2.28	
. 26 LOP EPU 18 59 54.94 15 1.6 30.3 55 38 5.46 5.50 -0.04 .															
. 26	SGV	EPU	18 60 0.13					6 0.9	61.2	301	38	10.65	10.52	0.13	
. SEP H = 9 18 46.38 UTC RMS = 7.56 NO = 5 .															
. 27	LAT = 36.663 N			ERX = 6.5	ERH = 16.4	AVFM = 2.2	Q = D	FIXED DEPTH SOLUTION							
. 27	LONG = 115.964 W			ERY = 15.0	GAP = 182	AVXM =	QS = D	DEPTH CONTROL INADEQUATE							
. 27	DEPTH = 5.00 KM			ERZ = 8.7	NM =		QD = D	MERCURY							
. 27	MCY	EPU	9 18 42.94					38 2.3	0.2	141	177	*****	0.99	-4.42	
. 27		ISU	9 19 0.46									14.08	1.72	12.36	
. 27	LOP	EPU	9 18 44.73					29 2.2	27.9	319	97	*****	4.92	-6.57	
. 27		ESU4	9 19 2.27									15.89	8.62	7.28	
. 27	LSM	EPD	9 18 45.00					33 2.3	28.8	287	97	*****	5.06	-6.44	
. 27		ESU	9 19 1.35									14.97	8.86	6.11	
. SEP H = 15 6 14.46 UTC RMS = 0.22 NO = 4 .															
. 28	LAT = 36.893 N			ERX =	ERH =	AVFM = 1.5	Q = C	FREE DEPTH SOLUTION							
. 28	LONG = 115.948 W			ERY =	GAP = 251	AVXM =	QS = B	MERCURY							
. 28	DEPTH = 0.31 KM			ERZ =	NM =		QD = D								
. 28	CPX	EPU	15 6 16.80					11 1.3	10.6	292	38	2.34	2.37	-0.03	
. 28	LOP	EPD	15 6 18.15					14 1.5	20.1	258	38	3.69	3.90	-0.21	
. 28	MCY	EPD	15 6 19.23					15 1.6	25.7	183	38	4.77	4.82	-0.05	
. 28	LSM	EPD	15 6 21.14					14 1.5	33.6	239	38	6.68	6.10	0.58	
. SEP H = 21 25 53.93 UTC RMS = 0.27 NO = 5 .															
. 29	LAT = 36.853 N			ERX = 4.0	ERH = 4.9	AVFM = 1.7	Q = D	FREE DEPTH SOLUTION							
. 29	LONG = 116.008 W			ERY = 2.8	GAP = 197	AVXM =	QS = C	LATHROP WELLS							
. 29	DEPTH = 0.06 KM			ERZ = 595.9	NM =		QD = D								
. 29	CPX	EPD	21 25 56.08					11 1.2	9.5	332	38	2.15	2.23	-0.09	
. 29	LCP	EPU	21 25 56.46					28 2.1	14.2	270	33	2.53	3.00	-0.47	
. 29	SSP	EPD	21 25 58.40					26 2.0	20.4	293	38	4.47	4.00	0.47	
. 29	MCY	EPD	21 25 58.13					22 1.9	21.7	169	38	4.20	4.21	-0.02	
. 29	SPRG	IPU4	21 26 1.55					10 1.2	25.1	135	38	7.62	4.76	2.85	
. 29	LSM	EPD	21 25 59.06					28 2.1	26.7	242	38	5.13	5.04	0.09	
. 29	CDH1	EPU4	21 26 1.44					13 1.5	27.6	272	38	7.51	5.18	2.33	
. 29	BGB	EPU4	21 26 1.20					12 1.4	28.3	316	38	7.27	5.30	2.02	
. 29	GLR	EPU4	21 26 4.20					13 1.5	38.4	359	38	10.27	6.93	3.48	
. OCT H = 1 48 14.38 UTC RMS = 0.09 NO = 20 .															
. 02	LAT = 37.271 N			ERX = 0.4	ERH = 0.5	AVFM = 3.3	Q = D	FREE DEPTH SOLUTION							
. 02	LONG = 117.058 W			ERY = 0.2	GAP = 199	AVXM =	QS = C	MT. JACKSON							
. 02	DEPTH = 0.27 KM			ERZ = 6.0	NM =		QD = D								
. 02	KRYA	IPD	1 48 28.07					62 3.0	80.1	48	38	13.69	13.67	0.02	
. 02	CDH5	EPD	1 48 28.07					49 2.8	80.1	125	38	13.69	13.67	0.02	
. 02	SSP	IPU	1 48 28.80					91 3.3	84.0	117	38	14.42	14.30	0.12	
. 02	BLT	EPD4	1 48 28.94					68 3.1	84.5	76	38	14.56	14.38	0.18	
. 02	TNP	IPU	1 48 29.80					100 3.4	91.1	351	38	15.42	15.46	-0.04	
. 02	LSM	IPU	1 48 29.85					90 3.4	91.6	130	38	15.47	15.54	-0.07	
. 02	LCP	IPU	1 48 30.00					90 3.4	91.7	120	38	15.62	15.56	0.06	
. 02	GLR	EPU	1 48 29.75					70 3.1	92.7	95	38	15.37	15.73	-0.21	
. 02	SDH	IPU	1 48 30.45					80 3.3	94.5	137	38	16.07	16.02	0.05	
. 02	CPX	EPU	1 48 30.56					59 3.0	96.7	113	38	16.18	16.37	-0.19	
. 02	AMR	EPU	1 48 33.00					67 3.2	110.1	152	38	18.62	18.55	0.07	
. 02	RVE	EPD	1 48 33.35					57 3.0	113.0	43	38	18.97	19.01	-0.04	
. 02	GMR	EPU	1 48 33.50					67 3.2	114.3	87	38	19.12	19.24	-0.12	
. 02	QCS	EPD	1 48 33.87					56 3.0	115.1	61	38	19.49	19.36	0.13	
. 02	MCY	EPU	1 48 34.20					86 3.4	118.7	125	38	19.82	19.95	-0.13	
. 02	SPRG	EPU	1 48 35.84					84 3.4	128.3	120	38	21.46	21.51	-0.05	
. 02	TPU	EPU	1 48 36.20					68 3.3	130.2	73	38	21.82	21.81	0.01	
. 02	NCP	EPU	1 48 39.25					70 3.3	150.5	107	30	24.87	24.62	0.25	
. 02	EPR	EPU4	1 48 41.40					92 3.6	166.6	94	30	27.02	26.71	0.31	
. 02	PRN	EPU	1 48 42.65					87 3.6	178.7	85	30	28.27	28.29	-0.02	
. 02	NPN	EPD	1 48 44.75					75 3.6	192.3	77	30	30.37	30.05	0.32	

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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOHS (SEC)	TCAL (SEC)	RLS (SEC)	REMARKS
02	DLM	EPD	1 48 46.65			50	3.3	208.7	80	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 =	B					
02	LONG =	115.987 W	ERY =	0.4	GAP =	93	AVXM =		QS =	B	MERCURY				
02	DEPTH =	5.40 KM	ERZ =	4.6	NM =				QD =	B					
02	CPX	IPU	6 13 42.94			16	1.6	9.2	224	115	2.03	1.99	0.04		
02	SSP	IPD	6 13 44.94			36	2.3	21.8	251	100	4.03	3.95	0.07		
02	LOP	EPD	6 13 44.90			37	2.3	22.0	227	100	3.99	3.98	0.01		
02	BGB	EPU	6 13 44.85			21	1.9	22.1	284	100	3.94	4.00	-0.02		
02	GLR	EPU	6 13 44.77			16	1.6	23.5	353	99	3.86	4.23	-0.22		
02	SPRG	EPU	6 13 47.11			15	1.6	36.3	154	96	6.20	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	2.4	39.0	310	96	6.89	6.73	0.16		
02	GMR	EPD	6 13 48.15			14	1.6	42.8	27	95	7.24	7.34	-0.10		
02	SDH	EPD	6 13 49.12			21	1.9	49.4	219	94	8.21	8.40	-0.19		
02	BMT	EPU4	6 13 52.35			23	2.1	58.6	304	94	11.44	9.90	1.14		
02	JON	EPU	6 13 51.50			20	1.9	61.8	190	94	10.59	10.42	0.17		
02	PRN	EPD	6 13 57.30			20	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				
02	LONG =	114.779 W	ERY =	2.8	GAP =	283	AVXM =		QS =	D	MOAPA				
02	DEPTH =	5.00 KM	ERZ =	2.6	NM =				QD =	D					
02	SPRG	EPD	20 16 7.10			44	2.7	94.0	281	92	15.77	15.65	0.11		
02	MCY	EPD	20 16 9.10			77	3.3	106.9	278	92	17.77	17.75	0.02		
02	JON	EPD	20 16 10.60			53	3.0	119.0	265	92	19.27	19.72	-0.45		
02	GMR	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	286	53	21.40	21.22	0.18		
02	NOP	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	0.28		
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	SDH	EPD	20 16 14.20			56	3.1	140.1	275	53	22.87	22.62	0.24		
02	CDH1	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	AMR	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	BMT	EPU4	20 16 13.24			50	3.1	177.5	298	53	21.91	27.48	-5.97		
02	KRNA	EPU	20 16 21.02					196.7	314	53	29.69	29.97	-0.29		
02	QSM	EPU4	20 16 23.21					197.9	252	53	31.88	30.13	1.74		
02	SGV	EPU	20 16 23.35			49	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					
02	LONG =	114.992 W	ERY =	4.9	GAP =	166	AVXM =		QS =	D	DELAMAR MOUNTAINS				
02	DEPTH =	9.71 KM	ERZ =	25.7	NM =				QD =	C					
02	EPR	EPD	20 16 4.51			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	MTI	EPD	20 16 12.32			40	2.5	61.5	336	98	11.17	10.43	0.94		
02	SHRG	IPD	20 16 14.63			34	2.5	75.3	191	96	13.48	12.67	0.86		
02	SRG	FPU	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	288	94	16.57	17.70	-1.13		
.....															
OCT H = 5 25 3.67 UTC RMS = 0.26 NO = 18 FREE DEPTH SOLUTION															
03	LAT =	37.222 N	ERX =	0.8	ERH =	0.9	AVFM =	2.6	Q =	B					
03	LONG =	116.338 W	ERY =	0.5	GAP =	90	AVXM =		QS =	B	SILENT CANYON - NORTH				
03	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	BMT	EPD	5 25 8.20			48	2.6	18.7	291	38	4.53	3.51	0.62		
03	BGB	EPU	5 25 7.65			47	2.6	22.6	154	38	3.98	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	34.6	162	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			68	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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. 03	KRNA	EPD	5 25 13.38					60	2.9	58.7	356	38	9.71	10.02	-0.31
. 03	SDH	EPU	5 25 14.24					38	2.5	64.0	180	38	10.57	10.87	-0.30
. 03	SGV	EPU	5 25 14.90					37	2.5	67.3	247	38	11.23	11.41	-0.18
. 03	QCS	EPU	5 25 15.80					41	2.6	71.1	32	38	12.13	12.04	0.10
. 03	FMT	EPU	5 25 16.25					32	2.4	75.6	211	38	12.58	12.77	-0.09
. 03	GVN	EPU	5 25 19.00					30	2.4	92.6	255	38	15.33	15.53	-0.20
. 03	MCA	EPD	5 25 21.40					34	2.6	105.5	233	38	17.73	17.62	0.11
. 03	MGM	EPU	5 25 20.89					31	2.5	105.6	283	38	17.22	17.64	-0.42
. 03	MZP	EPU4	5 25 22.84					23	2.2	106.6	300	38	19.17	17.81	1.55
. 03	PRN	EPU4	5 25 24.70					35	2.6	116.0	80	38	21.03	19.34	1.70
. 03	PGE	EPU	5 25 23.12					29	2.5	116.7	214	38	19.45	19.44	0.01
. 03	SVP	EPU	5 25 28.00					7	1.3	140.5	293	30	24.33	23.13	1.05

OCT H = 11 50 55.40 UTC RMS = 0.06 NO = 5 FREE DEPTH SOLUTION  
 . 03 LAT = 37.335 N ERX = 2.3 ERH = 3.1 AVFM = 1.4 Q = D  
 LONG = 115.916 W ERY = 2.0 GAP = 178 AVXM = QS = C GROOM LAKE  
 DEPTH = 5.27 KM ERZ = 10.4 NM = QD = D

. 03	GMR	IPU	11 50 57.91					12	1.3	12.8	91	107	2.51	2.53	-0.01
. 03	GLR	EPD	11 50 58.55					10	1.2	17.6	211	102	3.15	3.28	0.02
. 03	TPU	EPU	11 51 2.00					13	1.5	38.1	38	96	6.60	6.57	0.03
. 03	BGB	EPU	11 51 2.65					12	1.4	43.1	220	95	7.25	7.39	-0.09
. 03	CDH1	EPD	11 51 6.26					15	1.7	63.7	214	93	10.86	10.73	0.14

OCT H = 17 52 6.10 UTC RMS = 0.18 NO = 4 FREE DEPTH SOLUTION  
 . 03 LAT = 37.309 N ERX = ERH = AVFM = 2.1 Q = C  
 LONG = 114.673 W ERY = GAP = 282 AVXM = QS = B DELAMAR MOUNTAINS  
 DEPTH = 1.95 KM ERZ = NM = QD = D

. 03	DLM	EPD	17 52 11.87					19	1.8	33.4	350	90	5.77	5.79	-0.02
. 03	PRN	IPU	17 52 11.85					31	2.2	35.1	288	90	5.75	6.05	-0.31
. 03	MTI	EPD	17 52 17.38					24	2.1	66.9	308	90	11.28	11.23	0.25
. 03	GMR	EPU	17 52 22.52					22	2.2	97.4	272	90	16.42	16.19	0.23

OCT H = 17 52 41.63 UTC RMS = 0.83 NO = 3 FIXED DEPTH SOLUTION  
 . 03 LAT = 36.782 N ERX = ERH = AVFM = 1.3 Q = D DEPTH CONTROL INADEQUATE  
 LONG = 115.817 W ERY = GAP = 290 AVXM = QS = D MERCURY  
 DEPTH = 5.00 KM ERZ = NM = QD = D

. 03	MCY	EPU	17 52 43.96					20	1.8	18.6	224	101	2.33	3.43	-1.10
. 03	LDP	EPU	17 52 47.27					10	1.2	32.3	284	96	5.64	5.64	0.00
. 03	JON	EPD	17 52 50.75					6	0.8	45.8	214	94	9.12	7.82	1.30

OCT H = 2 23 47.91 UTC RMS = 0.18 NO = 12 FREE DEPTH SOLUTION  
 . 04 LAT = 35.684 N ERX = 1.3 ERH = 2.2 AVFM = 2.7 Q = C  
 LONG = 117.521 W ERY = 1.8 GAP = 294 AVXM = QS = B LITTLE LAKE  
 DEPTH = 0.89 KM ERZ = 1.2 NM = QD = D

. 04	GSM	EPU	2 23 59.30					36	2.5	66.8	62	38	11.39	11.38	0.01
. 04	PGE	EPD	2 24 2.06					28	2.3	84.5	29	38	14.15	14.25	-0.10
. 04	MCA	EPD3	2 24 5.90					26	2.3	109.2	11	38	17.99	18.27	-0.28
. 04	AMR	EPU2	2 24 7.94					45	2.9	123.3	50	38	20.03	20.56	-0.53
. 04	NCP	EPU4	2 24 9.15					38	2.8	133.0	68	38	21.24	22.15	-0.91
. 04	BRO	EPU3	2 24 11.41					33	2.7	144.3	34	30	23.50	23.68	-0.18
. 04	GVN	EPU	2 24 12.11					38	2.8	147.1	6	30	24.20	24.04	0.16
. 04	SGV	EPU3	2 24 12.25							150.5	17	30	24.34	24.08	-0.14
. 04	ESU		2 24 31.10										43.19	42.85	0.34
. 04	JON	EPD	2 24 12.84					39	2.8	152.8	57	30	24.93	24.78	0.15
. 04	CDH1	EPU4	2 24 16.88					20	2.3	169.5	40	30	28.97	26.95	2.02
. 04	ESU4		2 24 36.75										48.84	47.17	1.67
. 04	LCH	EPU3	2 24 15.20					28	2.6	172.4	356	30	27.29	27.33	-0.04
. 04	MCY	EPU4	2 24 15.30					49	3.1	177.3	52	30	27.39	27.97	-0.58
. 04	LCP	EPD	2 24 15.97					44	3.0	177.9	43	30	28.06	28.04	0.02
. 04	SSP	EPD	2 24 16.22					44	3.0	180.7	40	30	28.31	28.41	-0.10
. 04	GMN	EPU4	2 24 18.25					9	1.7	180.9	7	30	30.34	28.43	1.91
. 04	APK	EPU4	2 24 19.38					30	2.7	189.2	68	30	31.47	29.51	1.96
. 04	SPRG	EPU4	2 24 20.00					40	3.0	190.5	54	30	32.09	29.67	2.42
. 04	FSD4		2 24 42.45										54.54	51.93	2.61
. 04	MGM	EPD4	2 24 20.63					31	2.8	195.0	1	30	32.72	30.27	2.45
. 04	EPN	EPU4	2 24 22.08					48	3.2	200.9	32	30	34.17	31.03	3.14
. 04	MZP	EPD4	2 24 25.66					11	2.0	224.2	3	30	37.75	34.05	3.89
. 04	KPNA	EPD4	2 24 29.17					36	3.1	250.9	24	30	41.26	37.53	3.73
. 04	TNP	EPD4	2 24 32.00					13	2.3	267.5	6	30	44.09	39.68	4.41

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UCT	STA	PHASE	TIME	AMP	PER	XMAG	DUR	FMAG	DIST	AZI	AIN	TOBS	TCAL	RLS	REMARKS
1980			(UTC)	(MU)	(SEC)				(KM)	(DEG)	(DFG)	(SEC)	(SEC)	(SEC)	
.....															
OCT	H = 19	40	31.20	UTC	RMS =	0.08	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	GMN	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	5.84	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	BMT	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	LCH	EPU	19 40 40.30					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	328	95	9.19	9.38	-0.00
06	BRU	EPU	19 40 42.63					23	2.1	68.7	146	94	11.43	11.55	-0.12
06	FMT	EPU	19 40 43.57					18	1.9	74.8	161	94	12.37	12.55	-0.08
.....															
06	KRNA	EPD	19 40 44.55					23	2.1	79.5	49	94	13.35	13.30	0.04
06	CDH1	EPD2	19 40 44.80					32	2.4	80.2	125	94	13.60	13.42	0.18
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	SDH	EPD1	19 40 47.00					40	2.7	94.7	138	93	15.80	15.78	0.01
06	QCS	EPD4	19 40 50.86					20	2.1	114.5	62	93	19.66	18.99	0.66
06	QSM	EPD2	19 40 54.37					40	2.8	146.5	173	53	23.17	23.28	-0.11
06	NOP	EPD4	19 40 56.30					56	3.2	150.8	148	53	25.10	23.85	1.25
.....															
OCT	H = 21	45	54.05	UTC	RMS =	0.17	NO = 16					FREE DEPTH SOLUTION			
	08	LAT =	37.300 N		ERX =	4.3	ERH =	4.4	AVFM =	3.3	Q = D				
		LONG =	114.794 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	247	96	6.52	6.53	-0.01
08	GMR	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	200	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	EPD2	21 46 16.50					73	3.3	136.0	266	53	22.45	22.03	0.42
08	CDH1	EPU	21 46 16.98					63	3.2	144.0	250	53	22.93	23.07	-0.14
08	CDH5	EPD4	21 46 18.12					40	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 18.00					47	3.0	150.8	231	53	23.95	23.95	-0.00
08	BMT	EPD4	21 46 19.78					80	3.5	154.3	269	53	25.73	24.41	0.92
08	BRO	EP	21 46 21.18					37	2.9	173.6	250	53	27.13	26.92	0.21
08	NOP	EPD3	21 46 21.86					57	3.3	177.9	223	53	27.81	27.48	0.33
08	FMT	EPD4	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	GMN	EPU	21 46 26.70					63	3.5	218.7	270	53	32.65	32.77	-0.12
08	PGE	EPD4	21 46 32.50					47	3.3	228.6	243	53	38.45	34.06	4.39
08	MCA	EPD4	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	EPD4	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	280	53	39.15	39.42	-0.42
08	PPK	EPD2	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	CDH1	EPD0	2 19 28.18					22	1.9	35.6	286	38	6.07	6.14	-0.07
09	CDH5	EPD	2 19 28.13							35.6	286	38	6.02	6.14	-0.12
09	SDH	EPU	2 19 29.00					15	1.6	38.7	249	38	6.89	6.64	0.25
09	BGB	EPD4	2 19 29.61					20	1.9	39.5	319	38	7.50	6.77	0.78
09	JCN	EPD0	2 19 29.00					17	1.7	39.8	202	38	6.89	6.82	0.07
09	GLR	EPU	2 19 30.24							48.1	351	38	8.13	8.17	0.11
09	EPN	EPD4	2 19 27.82					37	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	GMR	EPD0	2 19 32.80					16	1.8	64.1	13	38	10.69	10.78	-0.09
09	SPRG	EPU	2 19 34.95					21	2.0	75.8	113	38	12.84	12.68	0.21
09	PRN	EPD4	2 19 32.15					42	2.7	105.7	48	38	10.04	17.54	-7.50
09	MCA	EPD4	2 19 38.63							121.1	264	38	16.52	20.04	-3.52



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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	A1N (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
09	GVN	EPD4	2 19 37.69						128.1	282	38	15.58	21.18	-5.60	
.....															
OCT H = 10	3 39.02	UTC	RMS = 0.07	NO = 8											FREE DEPTH SOLUTION
09 LAT = 36.781 N			ERX = 0.1	ERH = 0.1	AVFM = 1.6	Q = C									
LONG = 115.926 W			ERY = 0.1	GAP = 169	AVXM =	QS = B									MERCURY
DEPTH = 2.90 KM			ERZ = 2.3	NM =		QD = C									
.....															
09	MCY	IPD	10 3 41.55			31	2.2	13.7	194	96	2.53	2.59	-0.06		
09	SPRG	EPD	10 3 41.70			19	1.7	14.2	133	95	2.68	2.68	-0.00		
09	CPX	EPD	10 3 42.63			20	1.8	20.2	324	94	3.61	3.64	-0.03		
09	LGP	EPD	10 3 43.15			24	2.0	23.0	291	93	4.13	4.10	0.03		
09	SSP	EPD	10 3 44.42			21	1.9	30.6	301	92	5.40	5.33	0.07		
09	CDH1	EPD	10 3 45.38			14	1.5	36.0	284	92	6.36	6.21	0.14		
09	BGB	EPD	10 3 45.85			19	1.8	39.2	317	92	6.83	6.72	0.15		
09	SDH	EPD2	10 3 46.11			13	1.5	39.8	248	92	7.09	6.83	0.26		
09	BRO	EPD4	10 3 58.85			4	0.6	62.4	268	90	19.83	10.51	9.32		
09	SHRG	EPD4	10 3 52.48			4	0.6	75.5	114	90	13.46	12.63	0.88		
.....															
OCT H = 2	47 41.28	UTC	RMS = 0.01	NO = 4											FREE DEPTH SOLUTION
12 LAT = 37.199 N			ERX =	ERH =	AVFM = 3.5	Q = C									
LONG = 117.118 W			ERY =	GAP = 285	AVXM =	QS = A									MT. JACKSON
DEPTH = 2.74 KM			ERZ =	NM =		QD = D									
.....															
12	CTS	EPD	2 47 51.38			89	3.2	60.1	35	90	10.10	10.12	-0.02		
12	EPN	EPD	2 47 53.10			133	3.6	70.6	89	90	11.82	11.82	-0.00		
12	SSP	EPD	2 47 55.55			126	3.6	85.5	111	90	14.27	14.26	0.01		
12	KRNA	EPD	2 47 56.19			94	3.4	89.4	47	90	14.91	14.89	0.02		
12	LSM	EPD4	2 47 54.48			106	3.5	91.0	124	90	13.20	15.14	-1.94		
12	SDH	EPD4	2 47 58.52			121	3.6	92.7	131	90	17.24	15.43	1.81		
12	MCY	EPD4	2 47 54.30			135	3.8	119.0	120	90	13.02	19.70	-6.68		
.....															
OCT H = 5	40 44.28	UTC	RMS = 0.05	NO = 4											FREE DEPTH SOLUTION
12 LAT = 36.835 N			ERX =	ERH =	AVFM = 2.6	Q = C									
LONG = 115.643 W			ERY =	GAP = 323	AVXM =	QS = A									MERCURY
DEPTH = 7.33 KM			ERZ =	NM =		QD = D									
.....															
12	MCY	EPD	5 40 50.28			51	2.7	34.4	236	100	6.00	6.02	-0.01		
	ESU		5 40 54.80								10.52	10.53	-0.01		
12	LGP	EPD	5 40 52.25			48	2.7	46.8	273	97	7.97	8.02	-0.05		
12	LSM	EPD	5 40 54.04			44	2.6	57.1	259	96	9.76	9.68	0.08		
.....															
OCT H = 14	52 14.97	UTC	RMS = 0.09	NO = 4											FIXED DEPTH SOLUTION
12 LAT = 37.060 N			ERX =	ERH =	AVFM = 2.3	Q = C									DEPTH CONTROL INADEQUATE
LONG = 117.143 W			ERY =	GAP = 267	AVXM =	QS = A									MT. JACKSON
DEPTH = 5.00 KM			ERZ =	NM =		QD = D									
.....															
12	CTS	EPD	14 52 27.41			25	2.2	74.2	30	93	12.44	12.43	0.01		
12	EPN	EPD	14 52 27.40			34	2.5	74.8	77	93	12.43	12.53	-0.10		
12	SSP	EPD	14 52 29.10			25	2.2	83.6	100	92	14.13	13.97	0.16		
	ESD4		14 52 38.25								23.28	24.44	-1.16		
12	SDH	EPD1	14 52 29.05			21	2.1	85.2	123	92	14.08	14.22	-0.14		
12	LSM	EPD3	14 52 29.98			33	2.5	85.4	115	92	15.01	14.26	0.75		
.....															
OCT H = 16	27 31.22	UTC	RMS = 0.63	NO = 6											FREE DEPTH SOLUTION
12 LAT = 37.418 N			ERX = 10.8	ERH = 11.6	AVFM = 2.0	Q = D									
LONG = 116.136 W			ERY = 4.2	GAP = 156	AVXM =	QS = D									SILENT CANYON - NORTH
DEPTH = 36.14 KM			ERZ = 7.1	NM =		QD = C									
.....															
12	BLT	EP	16 27 36.21			21	1.8	4.8	2	171	4.99	5.70	-0.71		
	ESD		16 27 43.15								11.93	9.97	1.96		
12	EPN	EPD4	16 27 39.70			40	2.4	28.1	216	135	8.48	7.10	1.38		
12	KRNA	EPD	16 27 40.00			25	2.1	42.7	330	120	8.78	8.61	0.17		
12	QCS	EPD	16 27 39.75			19	1.8	43.4	27	120	8.53	8.70	-0.17		
12	LOP	EPD	16 27 42.00			28	2.2	62.6	183	109	10.78	10.98	-0.20		
	ES 4		16 27 56.00								24.78	19.21	5.57		
.....															
12	LSM	FPU	16 27 44.00			32	2.4	76.3	189	104	12.78	12.68	0.10		
12	JON	EPD4	16 27 46.80			10	1.5	108.6	178	99	15.58	16.80	-1.21		
.....															

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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
OCT H = 10 57 31.83 UTC RMS = 0.10 NO = 8 FREE DEPTH SOLUTION															
13	LAT =	37.258 N	FRX =	0.6	ERH =	0.8	AVFM =	2.1	Q =	B					
13	LONG =	116.455 W	ERY =	0.5	GAP =	106	AVXM =		QS =	A	SILENT CANYON - NORTH				
13	DEPTH =	9.60 KM	ERZ =	1.1	NM =				QD =	B					
13	BMT	EPD	10 57 34.37				40	2.4	7.6	292	139	2.54	2.18	-0.04	
13	EPN	EPD	10 57 34.70						12.6	113	124	2.87	2.80	0.07	
13	BGB	EPD	10 57 38.25				37	2.4	31.7	140	105	6.42	5.67	0.80	
13	CDH1	EPD	10 57 39.78				15	1.6	45.8	165	100	7.95	7.91	0.04	
13	CTS	EPD	10 57 40.20						48.7	330	99	8.37	8.38	-0.01	
13	LOP	EPD	10 57 40.54						51.6	150	99	8.71	8.84	-0.13	
13	KRNA	EPD	10 57 41.20						55.0	7	98	9.37	9.39	-0.02	
13	SGV	EPD	10 57 42.26				24	2.1	59.8	239	98	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	EPD	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					
13	LONG =	117.083 W	ERY =	1.4	GAP =	96	AVXM =		QS =	C	MT. JACKSON				
13	DEPTH =	5.83 KM	ERZ =	6.9	NM =				QD =	B					
13	SGV	IPD	14 52 17.75				24	1.9	10.9	156	113	2.24	2.26	-0.02	
13	GVN	IPD	14 52 20.21				19	1.8	24.4	252	100	4.70	4.37	0.33	
13	MCA	EPD	14 52 20.45				12	1.5	50.1	201	95	4.94	8.52	-3.58	
13	BRO	EPD	14 52 24.34				19	1.9	53.2	130	95	8.83	9.02	-0.19	
13	BMT	EPD	14 52 23.21				17	1.8	54.2	64	94	7.70	9.19	-1.89	
13	FMT	EPD	14 52 20.22				30	2.3	54.9	150	94	4.71	9.31	-4.50	
13	MGM	EPD	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						70.7	27	93	11.86	11.87	-0.01	
13	BGB	EPD	14 52 28.30				20	2.0	76.1	93	93	12.79	12.74	0.10	
13	LSM	EPD	14 52 28.85						81.1	117	93	13.34	13.55	-0.22	
13	SDH	EPD	14 52 28.90						81.4	125	93	13.39	13.61	-0.22	
13	LOP	EPD	14 52 29.80						84.9	106	93	14.29	14.18	0.11	
13	GMR	EPD	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					
13	LONG =	115.369 W	ERY =	0.3	GAP =	95	AVXM =		QS =	B	ALAMO				
13	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	PRN	EPD	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	6.80	-0.07	
13	GMR	EPD	16 27 30.75				16	1.7	39.8	244	96	6.53	6.86	-0.33	
13	NPN	EPD	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	EPD	16 27 35.39				17	1.8	66.1	240	94	11.17	11.13	0.19	
13	BLT	EPD	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	EPD	16 27 39.85						93.8	288	93	15.63	15.62	0.00	
13	SPRG	EPD	16 27 41.15				20	2.1	96.9	204	93	16.93	16.13	0.80	
13	SSP	EPD	16 27 41.00						98.3	230	93	16.78	16.35	0.42	
13	LOP	EPD	16 27 41.17						100.2	225	93	16.95	16.67	0.28	
13	BMT	EPD	16 27 58.07				14	1.8	105.7	257	92	33.85	17.56	15.89	
13	MCY	EPD	16 27 41.73						106.2	210	92	17.51	17.65	-0.14	
13	SHRG	EPD	16 27 57.41				7	1.2	111.3	170	92	33.19	18.47	14.77	
13	LSM	EPD	16 27 44.00						115.9	224	92	19.78	19.22	0.56	
13	SGV	EPD	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	FRX =	1.5	ERH =	2.1	AVFM =	2.6	Q =	C					
15	LONG =	115.001 W	ERY =	1.5	GAP =	216	AVXM =		QS =	B	ALAMO				
15	DEPTH =	1.84 KM	ERZ =	3.1	NM =				QD =	D					
15	EPR	IPD	4 53 25.90				58	2.7	17.6	249	90	3.02	3.21	-0.19	
15	PRN	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	DLM	EPD	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	GMR	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	EPD	4 53 40.25						103.9	285	90	17.37	17.24	0.13	
15	MCY	EPD	4 53 44.64				42	2.7	106.0	234	90	21.76	17.58	4.18	
15	BGB	EPD	4 53 42.40				38	2.7	111.0	259	90	19.52	18.39	1.18	
15	SSP	EPD	4 53 42.70				41	2.8	113.2	253	90	19.82	18.76	1.07	

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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	X MAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SLC)	RES (SEC)	REMARKS	
. 15	EPN	EPD	4 53 43.00					46	2.9	117.4	269	90	20.12	19.44	0.68	
. 15	LSM	EPD	4 53 42.20					44	2.9	125.3	245	90	19.32	20.72	-1.40	
. 15	KRNA	EPD	4 53 45.60					41	2.8	135.2	296	53	22.72	22.30	0.43	
. 15	SDH	EPD4	4 53 40.60					42	2.9	135.4	242	53	17.72	22.32	-4.60	
. 15	BMT	EPD4	4 53 47.77					33	2.6	136.0	273	53	24.89	22.40	2.09	
. 15	SGV	EPD	4 53 52.06					36	2.9	182.6	261	53	29.18	28.45	0.73	
. 15	GVN	EPD4	4 53 52.98					17	2.3	209.6	263	53	30.10	31.96	-1.86	

OCT H = 12 21 51.66 UTC RMS = 0.08 NO = 6 FREE DEPTH SOLUTION  
 . 15 LAT = 37.314 N ERX = 0.9 ERH = 1.0 AVFM = 1.9 Q = C  
 . LONG = 116.375 W ERY = 0.4 GAP = 201 AVXM = QS = B SILENT CANYON - NORTH  
 . DEPTH = 9.89 KM ERZ = 2.3 NM = QD = 0

. 15	EPN	IPD	12 21 54.45					38	2.3	12.0	158	127	2.79	2.75	0.04	
. 15	BLT	EPD	12 21 56.50					17	1.7	26.8	52	108	4.84	4.91	-0.08	
. 15	BGB	EPD	12 21 57.53							33.3	157	104	5.87	5.94	-0.02	
. 15	KRNA	EPD	12 22 0.10					15	1.7	48.4	359	100	8.44	8.33	0.11	
. 15		ESU	12 22 6.15										14.49	14.58	-0.09	
. 15	GMR	EP	12 22 0.90					16	1.7	53.5	88	99	9.24	9.16	0.08	
. 15	MCY	EPD3	12 22 6.56					20	2.0	81.2	153	96	14.90	13.62	1.27	

OCT H = 12 29 7.43 UTC RMS = 0.37 NO = 10 FIXED DEPTH SOLUTION  
 . 15 LAT = 37.243 N ERX = 1.2 ERH = 2.0 AVFM = 2.3 Q = C DEPTH CONTROL INADEQUATE  
 . LONG = 116.404 W ERY = 1.6 GAP = 77 AVXM = QS = C SILENT CANYON - NORTH  
 . DEPTH = 5.00 KM ERZ = 4.3 NM = QD = 8

. 15	EPN	IPD	12 29 9.45					39	2.3	7.8	114	116	2.02	1.76	0.27	
. 15	BMT	EPD	12 29 10.20					35	2.3	12.3	291	107	2.77	2.43	-0.06	
. 15	BGB	EPD4	12 29 13.52					27	2.1	27.7	145	97	6.09	4.88	1.26	
. 15	BLT	EPD4	12 29 16.00					32	2.3	34.0	45	96	8.57	5.91	2.66	
. 15	SSP	IPD4	12 29 10.38					60	2.8	39.0	155	95	2.95	6.71	-3.76	
. 15	KRNA	IPD	12 29 16.43					30	2.3	56.3	2	93	9.00	9.53	-0.52	
. 15	GMR	EPD	12 29 16.98					15	1.7	57.0	80	93	9.55	9.64	-0.09	
. 15	LSM	EPD	12 29 17.10					36	2.4	57.1	168	93	9.67	9.66	0.01	
. 15	SGV	EPD4	12 29 19.65					30	2.3	62.9	243	93	12.22	10.60	1.62	
. 15	SDH	EPD3	12 29 19.54					36	2.5	66.6	175	93	12.11	11.19	0.92	
. 15	QCS	EPD4	12 29 21.61							72.5	37	93	14.18	12.16	2.03	
. 15	MCY	EPD	12 29 19.45					34	2.5	75.6	149	93	12.02	12.65	-0.63	
. 15	SPRG	EPD4	12 29 22.20					28	2.3	80.7	139	92	14.77	13.49	1.28	
. 15	GVN	EPD	12 29 22.25					29	2.4	87.6	252	92	14.82	14.61	0.21	
. 15	MGM	EPD	12 29 24.20					23	2.2	99.3	283	92	16.77	16.51	0.26	
. 15	EPR	EPD4	12 29 29.82					30	2.5	108.4	94	92	22.3	18.00	4.39	
. 15	WRN	EPD4	12 29 27.12							109.2	41	92	19.6	18.12	1.57	
. 15	PRN	EPD4	12 29 30.55					39	2.7	121.5	81	92	23.1	20.12	3.00	
. 15	NPN	EPD	12 29 30.60					30	2.6	137.7	71	53	23.17	22.31	0.86	
. 15	SHRG	EPD4	12 29 32.00					7	1.3	138.2	126	53	24.57	22.38	2.24	

OCT H = 19 21 35.21 UTC RMS = 0.22 NO = 12 FREE DEPTH SOLUTION  
 . 17 LAT = 35.855 N ERX = 4.1 ERH = 6.6 AVFM = 2.4 Q = D  
 . LONG = 117.491 W ERY = 5.1 GAP = 290 AVXM = QS = D SEARLES LAKE  
 . DEPTH = 0.52 KM ERZ = 11.2 NM = QD = 0

. 17	PGE	EPD	19 21 46.44					27	2.2	66.8	35	38	11.23	11.46	-0.23	
. 17	MCA	EPD	19 21 50.31					23	2.2	90.0	12	38	15.10	15.23	-0.13	
. 17	AMR	EPD	19 21 53.80					34	2.6	109.6	57	38	18.59	18.41	0.18	
. 17	HOP	EPD	19 21 55.73					31	2.5	124.4	76	38	20.52	20.82	-0.30	
. 17	BRO	EPD	19 21 56.62					10	1.6	127.2	38	38	21.41	21.28	0.13	
. 17	GVN	EPD	19 21 56.55					30	2.5	127.9	6	38	21.34	21.39	-0.05	
. 17	SGV	EPD	19 21 57.35					37	2.7	131.5	18	38	22.14	21.98	0.15	
. 17	SDH	EPD4	19 21 54.21					10	1.6	135.7	50	30	19.00	22.64	-3.64	
. 17	JON	EPD	19 21 58.38					31	2.6	140.8	63	30	23.17	23.31	-0.14	
. 17	LOP	EPD	19 22 1.65					33	2.7	162.4	47	30	26.44	26.12	0.32	
. 17	MCY	EPD	19 22 1.70					31	2.7	163.9	57	30	26.49	26.31	0.18	
. 17	SSP	EPD	19 22 2.15					28	2.6	164.7	44	30	26.94	26.41	0.53	
. 17	SPRG	EP	19 22 3.90					33	2.8	177.4	58	30	28.69	28.06	0.63	

OCT H = 19 21 51.47 UTC RMS = 0.26 NO = 4 FREE DEPTH SOLUTION  
 . 17 LAT = 36.799 N ERX = FRX = AVFM = 1.6 Q = C  
 . LONG = 117.060 W ERY = GAP = 261 AVXM = QS = B TIN MOUNTAIN  
 . DEPTH = 19.75 KM ERZ = NM = QD = 0

. 17	BMT	EPD	19 22 4.40					32	2.4	71.4	41	53	12.93	12.25	0.28	
. 17	BGB	EPD	19 22 4.80					11	1.5	78.8	70	53	13.33	13.22	0.16	
. 17	EPN	EPD	19 22 4.23					31	2.4	80.2	55	53	12.76	13.40	-0.63	

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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DLG)	TORS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
17	MGM	EPD	19 22 5.00					5 0.8	81.2	331	53	13.53	13.53	0.00	
17	CTS	EPD4	19 22 10.21					10 1.5	98.0	18	53	18.74	15.71	3.03	
17	BLT	EPD4	19 22 9.77					7 1.2	110.3	48	53	18.30	17.32	0.99	
.....															
OCT H = 0 33 9.83 UTC RMS = 0.31 NO = 6 FREE DEPTH SOLUTION															
19 LAT = 37.372 N ERX = 3.1 ERH = 4.2 AVFM = 2.6 Q = D															
LONG = 116.191 W ERY = 2.8 GAP = 199 AVXM = QS = C SILENT CANYON - NORTH															
DEPTH = 0.45 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	EPD	0 33 13.91					29 2.1	24.5	141	38	4.08	4.60	-0.37	
19	SSP	EPD4	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	LOP	EPD	0 33 20.32					41 2.6	57.5	178	38	10.49	9.96	0.54	
19	CDH1	EPD	0 33 20.26						57.9	191	38	10.43	10.02	0.41	
19	NMN	EPD	0 33 20.65					47 2.7	64.4	240	38	10.82	11.08	-0.26	
19	LSM	EPD4	0 33 23.00					47 2.7	70.6	186	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 ERX = 11.4 ERH = 12.8 AVFM = 2.1 Q = D															
LONG = 117.000 W ERY = 5.6 GAP = 280 AVXM = QS = D MT. JACKSON															
DEPTH = 14.31 KM ERZ = 12.5 NM = QD = D															
20	GMN	EPD4	11 36 32.00					24 2.0	23.3	278	120	23.97	4.68	19.29	
20	NMN	EPD4	11 36 20.65					25 2.0	26.5	143	116	12.62	5.14	7.48	
20	BMT	EPD4	11 36 22.81					29 2.2	41.3	88	107	14.78	7.39	7.00	
20	GVN	EPD4	11 36 33.03					12 1.4	42.7	226	107	25.00	7.59	17.41	
20	CTS	EPD	11 36 16.93					20 1.9	47.6	31	105	8.90	8.37	0.53	
20	EPN	IPU	11 36 18.40					47 2.7	60.3	96	102	10.37	10.38	-0.00	
20	BRO	EPD4	11 36 27.07					12 1.5	65.4	149	101	19.04	11.19	7.85	
20	BGB	EPD	11 36 21.55					20 2.0	73.2	111	100	13.52	12.44	1.14	
20	KRNA	EPD	11 36 19.71					25 2.2	76.4	46	100	11.68	12.94	-1.26	
20	ISD	EPD	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	EPD4	11 36 25.00					30 2.4	87.2	122	98	16.97	14.68	2.29	
20	LSM	EPD4	11 36 26.80					36 2.5	87.6	132	98	18.77	14.74	4.03	
20	GMR	EPD4	11 36 22.71					15 1.9	109.1	86	53	14.68	17.69	-3.01	
.....															
20	MCY	EPD4	11 36 29.05					28 2.4	114.4	126	53	21.02	18.38	2.65	
20	SPRG	EPD4	11 36 25.11					13 1.8	123.8	121	53	17.08	19.59	-2.51	
20	TPU	EPD	11 36 27.62					25 2.4	125.2	73	53	19.59	19.78	-0.19	
20	APK	EPD4	11 36 30.40					20 2.3	165.3	130	53	22.37	24.98	-2.61	
20	PRN	EPD4	11 36 35.70					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 ERH = 0.4 AVFM = 2.4 Q = B															
LONG = 116.347 W ERY = 0.2 GAP = 110 AVXM = QS = A SILENT CANYON - NORTH															
DEPTH = 4.61 KM ERZ = 1.3 NM = QD = C															
20	EPN	IPU	11 41 40.30					65 2.8	11.5	170	106	2.36	2.29	0.07	
20	BLT	IPD	11 41 42.40					20 1.8	24.8	49	97	4.46	4.41	0.05	
20	BGB	EPD	11 41 43.46					37 2.4	32.7	161	95	5.52	5.69	-0.12	
20	SSP	IPD	11 41 45.50					32 2.3	44.9	165	94	7.56	7.67	-0.11	
20	KRNA	IPU	11 41 45.92					34 2.4	48.2	357	94	7.98	8.21	-0.23	
20	CTS	IPU	11 41 46.32					27 2.2	49.1	317	93	8.38	8.35	0.03	
20	NMN	EPD4	11 41 42.57					37 2.4	49.3	238	93	4.63	8.38	-3.75	
20	GMR	EPD	11 41 46.79					28 2.2	51.1	88	93	8.85	8.68	0.17	
20	LOP	EPD	11 41 46.80					37 2.5	53.7	163	93	8.86	9.10	-0.24	
20	BRO	EPD	11 41 49.05					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	11.61	11.67	-0.07	
20	MCY	EPD	11 41 51.45					39 2.6	80.3	155	92	13.51	13.43	0.08	
20	GMN	EPD4	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	207	92	14.03	14.08	0.05	
20	JON	EPD	11 41 54.60					29 2.4	99.7	167	92	16.66	16.58	0.08	
20	PRN	EPD2	11 41 57.65					36 2.6	115.3	85	91	19.71	19.12	0.59	
20	SRG	EPD	11 41 59.30					35 2.7	129.3	61	53	21.36	21.26	0.10	
20	NPN	EPD4	11 42 0.50					33 2.6	130.2	73	53	22.56	21.37	1.19	
20	APK	EPD4	11 41 52.27					28 2.5	130.4	148	53	14.33	21.40	-7.07	
20	DLM	EPD4	11 42 2.75					36 2.8	145.8	77	53	24.81	23.40	1.40	
.....															
OCT H = 4 1 54.71 UTC RMS = 0.17 NO = 11 FREE DEPTH SOLUTION															
21 LAT = 36.691 N ERX = 1.0 ERH = 1.4 AVFM = 2.5 Q = C															
LONG = 115.700 W ERY = 1.0 GAP = 142 AVXM = QS = B MERCURY															
DEPTH = 7.43 KM ERZ = 2.3 NM = QD = C															

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UCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	A71 (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 21	MCY	IPD	4 1 59.20					51 2.6	23.6	262	104	4.49	4.31	0.18	
. 21	APK	IPD	4 2 2.07					38 2.4	42.7	165	98	7.36	7.36	-0.00	
. 21	LGP	EPD	4 2 2.05					38 2.4	45.5	293	97	7.34	7.81	-0.47	
. 21	JON	EPD4	4 2 3.90					34 2.4	45.5	232	97	9.19	7.82	1.37	
. 21	LSM	EPD	4 2 3.19					46 2.6	51.4	276	97	8.48	8.76	-0.28	
. 21	SSP	EPD	4 2 3.80					39 2.5	53.1	299	96	9.09	9.03	0.06	
. 21	SDH	EPD	4 2 4.32					32 2.3	57.2	265	96	9.61	9.71	-0.10	
. 21	BGB	IPD	4 2 5.29					35 2.4	60.8	309	96	10.58	10.28	0.35	
. 21	NCP	EPD4	4 2 9.74					36 2.5	74.5	213	94	15.03	12.50	2.53	
. 21	EPN	EPD	4 2 9.25					34 2.5	80.3	316	94	14.54	13.45	1.09	
. 21	TPU	EPD	4 2 11.05					47 2.8	101.6	3	93	16.34	16.89	-0.56	
. 21	SGV	EPD	4 2 15.13					34 2.6	123.2	285	53	20.42	20.19	0.23	
. 21	KRNA	EPD4	4 2 18.94					30 2.5	132.2	333	53	24.23	21.35	2.87	
. 21	CTS	EPD4	4 2 19.05					24 2.4	139.2	319	53	24.34	22.27	2.07	
. 21	SRG	EPD	4 2 17.56					47 3.0	143.6	23	53	22.85	22.84	0.01	
. 21	TMO	IPD	4 2 18.75					25 2.5	153.1	275	53	24.04	24.08	-0.04	

OCT H = 1 32 15.47 UTC RMS = 0.19 NO = 16 FREE DEPTH SOLUTION  
. 23 LAT = 36.259 N ERX = 1.9 ERH = 2.7 AVFM = 2.8 Q = D  
. LONG = 114.801 W ERY = 2.0 GAP = 261 AVXM = QS = C HOOVER DAM  
. DEPTH = 10.26 KM ERZ = 0.9 NM = QD = D

. 23	APK	EPD	1 32 27.26					43 2.6	69.8	276	97	11.79	11.79	-0.00	
. 23	SPRG	EPD	1 32 32.99					46 2.8	102.4	298	95	17.52	17.07	0.45	
. 23	EPR	EPD	1 32 33.09					57 3.0	106.7	341	95	17.62	17.76	-0.14	
. 23	MCY	EPD4	1 32 32.90					54 3.0	113.2	293	53	17.43	18.62	-1.19	
. 23	JON	EPD4	1 32 33.55					37 2.7	118.7	280	53	18.08	19.33	-1.25	
. 23	NCP	EPD4	1 32 34.10					36 2.7	122.4	263	53	18.63	19.82	-1.19	
. 23	ISD		1 32 50.12									34.65	34.68	-0.03	

. 23	PRN	EPD	1 32 36.22					54 3.0	129.4	350	53	20.75	20.71	0.03	
. 23	CPX	EPD	1 32 36.52					30 2.6	134.9	303	53	21.05	21.43	-0.38	
. 23	LGP	EPD	1 32 37.47					40 2.8	139.0	298	53	22.00	21.97	0.03	
. 23	SDH	EPD	1 32 38.13					30 2.6	144.3	287	53	22.66	22.65	0.01	
. 23	SSP	EPD	1 32 37.71					41 2.9	146.8	300	53	22.24	22.98	-0.75	
. 23	ISU4		1 32 58.89									43.42	40.22	3.20	
. 23	DLM	EPD	1 32 38.79					31 2.6	149.6	2	53	23.32	23.34	-0.02	
. 23	ISU		1 32 56.44									40.97	40.85	0.12	
. 23	AMR	EPD	1 32 39.18					39 2.8	151.1	276	53	23.71	23.54	0.17	
. 23	BGB	EPD	1 32 39.20					50 3.1	154.2	304	53	23.73	23.94	-0.16	
. 23	NPN	IPD	1 32 39.51					40 2.9	155.2	356	53	24.04	24.07	-0.03	
. 23	EPN	EPD	1 32 42.11					48 3.1	172.5	308	53	26.64	26.32	0.32	
. 23	BMT	EPD4	1 32 48.32					39 3.0	192.0	306	53	32.8	28.85	3.60	
. 23	KRNA	EPD	1 32 47.21						217.2	320	53	31.7	32.12	-0.38	

OCT H = 2 31 19.56 UTC RMS = 0.36 NO = 9 FREE DEPTH SOLUTION  
. 23 LAT = 37.456 N ERX = 1.4 ERH = 1.9 AVFM = 2.1 Q = C  
. LONG = 116.269 W ERY = 1.2 GAP = 101 AVXM = QS = C SILENT CANYON - NORTH  
. DEPTH = 2.81 KM ERZ = 66.8 NM = QD = C

. 23	EPN	EPD	2 31 24.89					30 2.2	27.3	190	92	5.33	4.79	0.54	
. 23	BMT	EPD4	2 31 27.22						30.3	231	92	7.66	5.28	1.98	
. 23	GLR	IPD4	2 31 28.60					30 2.2	36.1	142	92	9.04	6.23	2.96	
. 23	CTS	EPD	2 31 26.91					17 1.7	45.3	297	91	7.35	7.73	-0.38	
. 23	GMR	EPD4	2 31 29.42					22 2.0	46.1	107	91	9.86	7.85	2.00	
. 23	BGB	IPD	2 31 27.36					26 2.1	46.5	176	91	7.80	7.92	-0.08	
. 23	QCS	EPD	2 31 27.19					20 1.9	46.6	42	91	7.63	7.93	-0.30	
. 23	CDH1	EPD	2 31 30.13					25 2.2	66.2	184	90	10.57	11.12	-0.55	
. 23	LSM	EPD4	2 31 33.95					25 2.2	79.5	180	90	14.39	13.29	1.10	
. 23	ISD		2 31 42.44									22.88	23.25	-0.37	
. 23	SDH	EPD4	2 31 36.94					28 2.3	90.1	184	90	17.38	15.01	2.37	
. 23	ISU4		2 31 42.91									23.35	26.26	-2.92	
. 23	MTI	EPD	2 31 35.00					23 2.2	91.3	74	90	15.44	15.20	0.44	
. 23	MCY	EPD4	2 31 36.92					31 2.4	92.2	163	90	17.36	15.35	2.01	
. 23	ISU4		2 31 42.91									23.35	26.86	-3.52	
. 23	SPRG	EPD4	2 31 37.97						93.9	154	90	18.41	15.62	2.79	
. 23	TNP	EPD	2 31 37.84					11 1.6	108.7	310	90	18.28	18.03	0.24	
. 23	ISU4		2 31 53.82									34.26	31.56	2.70	
. 23	MGM	EPD	2 31 37.89						108.7	269	90	18.33	18.03	0.29	
. 23	PPK	IPD4	2 31 44.72						145.1	269	53	25.16	23.49	1.66	

OCT H = 13 27 47.05 UTC RMS = 0.00 NO = 4 FREE DEPTH SOLUTION  
. 24 LAT = 36.981 N ERX = ERH = AVFM = 2.5 Q = C  
. LONG = 115.956 W ERY = GAP = 130 AVXM = QS = A MERCURY  
. DEPTH = 6.63 KM ERZ = NM = QD = D

. 24	SPRG	EPD	13 27 53.06					47 2.6	34.4	158	98	6.01	6.01	0.00	
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OCT 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PFR (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DLG)	T00S (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 24	BMT	EPD	13 27 57.81					27 2.2	61.3	303	95	10.76	10.36	0.00	
. 24	EPR	EPD	13 27 59.06					33 2.4	71.5	73	94	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 38.89 UTC RMS = 0.49 NO = 13 FREE DEPTH SOLUTION .															
. 24	LAT = 37.081 N		ERX =	2.0	ERH =	2.4	AVFM =	2.6	Q = C	GROOM LAKE					
. 24	LONG = 115.963 W		ERY =	1.3	GAP =	96	AVXM =		QS = C						
. 24	DEPTH = 9.52 KM		ERZ =	8.6	NM =				QD = R						
.....															
. 24	GLR	IP	19 25 41.85					58 2.7	14.0	340	121	2.96	2.99	0.12	
. 24	BGB	EPD	19 25 43.11					47 2.6	24.0	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	LOP	EPD	19 25 44.16					76 3.0	31.0	216	105	5.27	5.56	-0.29	
. 24	GMR	EPD2	19 25 43.23					54 2.7	32.9	31	104	4.34	5.85	-1.51	
. 24	EPN	EPD4	19 25 45.96					48 2.6	35.3	295	103	7.07	6.24	0.83	
. 24	CDH5	EPD4	19 25 43.28						39.9	232	101	4.39	6.97	-2.57	
. 24	CDH1	EPD	19 25 44.81					24 2.0	39.9	232	101	5.92	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	EPD	19 25 47.10					63 2.9	45.0	162	100	8.21	7.79	0.42	
. 24	MCY	EPD	19 25 47.00					83 3.1	46.5	180	100	8.11	8.02	0.09	
. 24	BMT	EPD	19 25 48.97					43 2.6	55.4	294	98	10.08	9.46	0.23	
. 24	BRO	EPD4	19 26 0.15					20 2.0	68.8	239	97	21.26	11.61	9.66	
. 24	EPR	EPD4	19 25 52.20					41 2.6	69.7	82	97	13.31	11.76	1.55	
. 24	JON	EPD	19 25 51.55					24 2.1	72.2	190	96	12.66	12.16	0.50	
. 24	KRNA	EPD	19 25 53.11					24 2.2	83.0	334	95	14.22	13.91	0.32	
. 24	PRN	EPD	19 25 53.31					45 2.7	88.8	66	95	14.42	14.85	-0.43	
. 24	MTI	EPD4	19 25 56.62					45 2.8	90.1	43	95	17.73	15.06	2.88	
. 24	SCV	EPD4	19 25 57.65					39 2.6	95.8	263	95	18.76	15.98	2.78	
. 24	NPN	EPD4	19 25 59.95					40 2.7	110.9	55	53	21.06	18.38	2.68	
. 24	GYN	EPD4	19 26 0.50					33 2.6	117.7	282	53	21.61	19.27	2.34	
. 24	SRG	EPD4	19 26 1.11					49 2.9	119.1	42	53	22.22	19.45	2.77	
. 24	GVN	EPD4	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	TNP	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	SILENT CANYON - YUCCA FLAT					
. 24	LONG = 116.007 W		ERY =	0.9	GAP =	139	AVXM =		QS = C						
. 24	DEPTH = 8.59 KM		ERZ =	5.3	NM =				QD = C						
.....															
. 24	GLR	EPD	19 27 47.65					53 2.6	13.5	356	119	2.55	2.84	-0.14	
. 24	BGB	EPD	19 27 48.88					64 2.8	20.2	257	110	3.78	3.83	-0.00	
. 24	SSP	EPD	19 27 49.51					50 2.6	25.4	228	106	4.41	4.64	-0.23	
. 24	LOP	EPD	19 27 50.00					48 2.6	28.7	210	104	4.90	5.16	-0.26	
. 24	EPN	EPD4	19 27 51.84					50 2.6	32.0	298	103	6.74	5.68	1.06	
. 24	GMR	EPD	19 27 51.40					28 2.1	35.2	36	101	6.30	6.20	0.10	
. 24	CDH1	EPD	19 27 51.30					24 2.0	36.7	229	101	6.20	6.43	-0.24	
. 24	CDH5	EPD	19 27 51.56					13 1.5	36.7	229	101	6.46	6.43	0.02	
. 24	ISD	EPD	19 27 56.75									11.65	11.26	0.39	
. 24	BLT	EPD	19 27 52.95					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	SDH	EPD	19 27 54.15					36 2.4	56.4	212	97	9.05	9.59	-0.54	
. 24	TPU	EPD	19 27 56.40					23 2.1	66.5	28	96	11.30	11.23	0.07	
. 24	JON	EPD	19 27 57.40					22 2.1	71.4	187	96	12.30	12.01	0.29	
. 24	PRN	EPD4	19 28 2.15					35 2.5	92.5	67	94	17.05	15.43	1.62	
. 24	NCP	EPD3	19 28 3.60					25 2.3	106.2	187	94	18.50	17.67	0.83	
. 24	NPN	EPD4	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	TONOPAH					
. 25	LONG = 117.233 W		ERY =	2.7	GAP =	246	AVXM =		QS = C						
. 25	DEPTH = 0.61 KM		ERZ =	5.9	NM =				QD = D						
.....															
. 25	TNP	IPD	0 27 42.89						12.9	174	38	2.30	2.67	-0.37	
. 25	CTS	EPD	0 27 53.21						76.3	144	38	12.62	12.98	-0.36	
. 25	MGM	EPD	0 27 55.12					29 2.4	87.1	195	38	14.53	14.73	-0.21	
. 25	KRNA	EPD	0 27 55.50						89.9	124	38	14.91	15.19	-0.28	
. 25	GYN	IPD4	0 27 56.75					48 2.8	99.6	181	38	16.16	16.77	-0.61	
. 25	PPK	EPD2	0 27 57.70					23 2.2	104.1	215	38	17.11	17.51	-0.40	
. 25	LCH	EPD	0 27 59.82					28 2.4	112.9	199	38	19.23	18.94	0.29	
. 25	BMT	EPD4	0 28 0.03						118.7	149	38	19.44	19.88	-0.84	
. 25	QCS	EPD3	0 28 1.02					40 2.8	125.1	112	38	20.43	20.92	-0.49	
. 25	BLT	EPD	0 28 1.72					38 2.7	126.6	130	38	21.13	21.17	-0.04	
. 25	GVN	EPD	0 28 2.79						133.1	184	38	22.20	22.21	-0.02	
. 25	EPN	EPD	0 28 3.75					71 3.3	135.4	144	30	23.16	22.59	0.57	

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. 25	SGV	EPU	0 28 3.67					34	2.7	136.1	173	30	23.08	22.68	0.40	.
. 25	TPU	EPD	0 28 5.15					38	2.8	154.1	115	30	24.56	25.01	-0.45	.
. 25	GLR	EPD	0 28 5.90					34	2.7	154.2	136	30	25.31	25.02	0.44	.
. 25	BGB	EPU	0 28 6.30					44	3.0	156.4	145	30	25.71	25.31	0.45	.
. 25	GMR	EPD	0 28 6.58					33	2.7	160.5	127	30	25.99	25.85	0.14	.
. 25	SSP	EPD	0 28 7.86							167.3	148	30	27.27	26.72	0.54	.
. 25	BRO	EPD	0 28 7.85							168.0	161	30	27.26	26.82	0.43	.
. 25	CDH1	EPU	0 28 7.81					32	2.7	169.1	151	30	27.22	26.96	0.26	.
. 25	CPX	EPU	0 28 8.56							174.9	144	30	27.97	27.72	0.25	.
. 25	LCP	EPD	0 28 8.90							176.4	148	30	28.31	27.91	0.40	.
. 25	FMT	EPD	0 28 9.32					34	2.8	177.5	167	30	28.73	28.05	0.78	.
. 25	MTI	EPD	0 28 8.62					17	2.2	181.9	109	30	28.03	28.62	-0.39	.
. 25	LSM	EPD	0 28 9.70							182.8	152	30	29.11	28.74	0.36	.
. 25	SPG	EPU	0 28 10.17					52	3.2	193.4	100	30	29.58	30.12	-0.54	.
. 25	MCY	EPU	0 28 11.90							204.2	147	30	31.31	31.53	-0.22	.
. 25	PGE	EPU	0 28 13.15					37	3.0	205.7	176	30	32.56	31.71	0.85	.
. 25	SPRG	EPU	0 28 12.10					14	2.2	209.1	143	30	31.51	32.16	-0.65	.
. 25	NPN	EPD	0 28 12.44					41	3.1	210.8	107	30	31.85	32.38	-0.53	.
. 25	PPN	EPD2	0 28 12.65					42	3.1	211.4	115	30	32.06	32.45	-0.40	.
. 25	EPR	EPU	0 28 13.16					34	2.9	213.6	122	30	32.57	32.74	-0.17	.
. 25	JCN	EPU	0 28 14.95							219.3	153	30	34.36	33.48	0.88	.
. 25	DLM	EPU	0 28 14.35							229.0	107	30	33.76	34.74	-0.99	.

OCT H = 0 30 59.69 UTC RMS = 0.18 NO = 40 FREE DEPTH SOLUTION  
 25 LAT = 37.753 N ERX = 0.2 ERH = 0.4 AVFM = 3.7 Q = C  
 LONG = 116.306 W ERY = 0.3 GAP = 134 AVXM = QS = C QUARTZITE MOUNTAIN  
 DEPTH = 0.67 KM ERZ = 6.8 NM = QD = C

25	QCS	IPU	0 31 5.63					150	3.6	34.4	87	38	5.94	6.16	-0.21	.
25	BLT	IPU	0 31 5.53							35.8	155	38	5.84	6.39	-0.54	.
25	CTS	IPU	0 31 6.38							39.1	251	38	6.69	6.92	-0.22	.
25	BMT	IPD	0 31 10.06					160	3.7	55.9	201	38	10.37	9.65	0.32	.
25	EPN	IPD	0 31 10.42							59.9	181	38	10.73	10.30	0.43	.
25	TPU	IPU	0 31 9.95					122	3.5	60.3	106	38	10.26	10.36	-0.10	.
25	GMR	IPU	0 31 11.22							66.4	135	38	11.53	11.36	0.17	.
25	GLR	IPU	0 31 10.86					119	3.5	66.6	157	38	11.17	11.39	-0.07	.
25	WRN	EPU	0 31 11.32							68.1	68	38	11.63	11.63	0.00	.
25	BGB	EPU	0 31 13.15							79.7	175	38	13.46	13.53	-0.01	.
25	TNP	IPU	0 31 14.56							88.1	294	38	14.87	14.89	-0.01	.
25	MTI	IPU	0 31 14.89					105	3.5	91.6	95	38	15.20	15.46	-0.05	.
25	SSP	EPD	0 31 15.16							92.3	175	38	15.47	15.57	-0.09	.
25	CPX	EPU	0 31 15.25					115	3.6	94.1	166	38	15.56	15.87	-0.31	.
25	MZP	EPD4	0 31 16.40							95.1	266	38	16.71	16.03	0.87	.
25	GMN	IPU	0 31 16.18					104	3.5	98.2	239	38	16.49	16.53	-0.03	.
25	CDHS	EPD	0 31 16.21							99.1	181	38	16.52	16.68	-0.16	.
25	CDH1	IPU	0 31 16.31					94	3.4	99.1	181	38	16.62	16.68	-0.06	.
25	LDP	EPD	0 31 16.60					200	4.1	100.6	173	38	16.91	16.92	-0.00	.
25	SGV	IPD	0 31 17.78					142	3.8	107.1	217	38	18.09	17.98	0.11	.
25	SRG	EPU	0 31 18.50					162	3.9	110.0	83	38	18.81	18.45	0.36	.
25	MGM	IPU	0 31 18.26					112	3.6	110.7	252	38	18.57	18.56	0.01	.
25	LSM	EPU	0 31 18.50					206	4.2	112.6	178	38	18.81	18.88	-0.06	.
25	BRO	IPD	0 31 18.65					91	3.4	113.5	194	38	18.96	19.03	-0.06	.
25	PRN	IPU	0 31 19.40					150	3.9	117.5	109	38	19.71	19.66	0.05	.
25	EPR	IPU	0 31 19.73					180	4.1	118.4	123	38	20.04	19.82	0.23	.
25	NPN	EPU	0 31 20.00					130	3.8	121.3	95	38	20.31	20.29	0.03	.
25	SDH	EPD	0 31 20.04							123.0	181	38	20.35	20.56	-0.21	.
25	GVN	IPD	0 31 20.57					130	3.8	124.0	228	38	20.88	20.73	0.15	.
25	MCY	EPD	0 31 20.53							125.0	166	38	20.84	20.88	-0.04	.
25	SPRG	EPU	0 31 20.50					139	3.9	125.6	159	38	20.81	20.99	-0.17	.
25	FMT	IPD	0 31 21.35					89	3.5	130.5	199	38	21.66	21.79	-0.02	.
25	LCH	EPD	0 31 21.95					98	3.6	131.8	244	38	22.26	22.00	0.27	.
25	DLM	IPU	0 31 22.85					107	3.7	139.2	97	30	23.16	23.07	0.09	.
25	TWO	EPU	0 31 24.20					26	2.5	143.6	223	30	24.51	23.63	0.88	.
25	PPK	EPU	0 31 23.80					96	3.6	146.0	256	30	24.11	23.94	0.17	.
25	JCN	EPD	0 31 24.10							146.9	173	30	24.41	24.07	0.35	.
25	MCA	EPD	0 31 24.25							150.1	215	30	24.56	24.48	0.08	.
25	PGE	IPU	0 31 27.45					82	3.6	169.9	203	30	27.76	27.05	0.71	.
25	APK	IPD	0 31 27.78					112	3.8	172.0	158	30	28.09	27.32	0.77	.
25	NCP	EPU	0 31 28.20							180.9	176	30	28.51	28.48	0.03	.
25	QSM	EPU	0 31 31.25					87	3.7	204.6	194	30	31.56	31.57	-0.00	.

OCT H = 1 6 46.30 UTC RMS = 0.20 NO = 9 FREE DEPTH SOLUTION  
 25 LAT = 37.335 N FRX = 6.0 ERH = 6.1 AVFM = 2.8 Q = D  
 LONG = 114.924 W ERY = 1.2 GAP = 281 AVXM = QS = D DELAMAR MOUNTAINS  
 DEPTH = 0.34 KM ERZ = 11.2 NM = QD = D

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25	QCS	EPD	1 7 3.07					39	2.7	99.9	299	38	16.77	16.89	-0.11
25	BLT	EPD	1 7 4.61					39	2.7	108.1	277	38	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	EPD	1 7 6.66					47	2.9	122.7	244	38	20.36	20.59	-0.23
25	KRNA	EPD	1 7 9.17					42	2.9	136.8	290	30	22.87	22.83	0.04
25	JON	EPD	1 7 10.54					40	2.8	144.6	227	30	24.24	23.84	0.40
25	SDH	EPD	1 7 10.81					36	2.8	147.3	239	30	24.51	24.20	0.31
25	NCP	EPD	1 7 13.76					43	3.0	173.2	219	30	27.46	27.56	-0.10
25	TNP	EPD	1 7 20.11					16	2.3	218.7	292	30	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 AVFM = 2.4 Q = C															
LONG = 116.316 W ERY = 0.6 GAP = 129 AVXM = QS = C LATHROP WELLS															
DEPTH = 3.73 KM ERZ = 5.4 NM = QD = 8															
27	LSM	IPU	13 22 52.76					87	3.0	7.5	148	108	1.41	1.62	-0.21
27	LDP	IPU	13 22 54.21					36	2.3	14.8	64	99	2.86	2.78	0.08
27	SDH	EPD	13 22 54.57					30	2.1	16.8	187	97	3.22	3.11	0.11
27	CPX	EPD	13 22 56.18					30	2.2	27.3	57	94	4.83	4.80	0.02
27	MCY	EPD	13 22 57.15					39	2.4	35.0	115	93	5.80	6.05	-0.25
27	JON	EPD	13 22 58.79					30	2.2	43.9	154	93	7.44	7.50	-0.06
27	SPRG	EPD	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	EPD	13 23 9.81					33	2.5	94.3	284	91	18.46	15.70	2.75
27	EPR	EPD	13 23 9.84					38	2.7	108.7	68	90	18.49	18.03	0.45
OCT H = 20 2 28.83 UTC RMS = 0.15 NO = 11 FREE DEPTH SOLUTION															
27 LAT = 36.010 N ERX = 1.9 ERH = 2.9 AVFM = 2.7 Q = D															
LONG = 115.139 W ERY = 2.2 GAP = 273 AVXM = QS = C LAS VEGAS															
DEPTH = 0.60 KM ERZ = 8.5 NM = QD = D															
27	NCP	EPD	20 2 44.31					28	2.3	92.2	278	38	15.48	15.57	-0.09
27	JON	EPD	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	2.8	103.4	314	38	17.12	17.40	-0.28
27	SDH	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	LDP	EPD	20 2 50.85					35	2.7	131.5	315	38	22.02	21.96	0.06
27	CDH1	EPD	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 53.90					42	2.9	155.3	3	30	25.07	25.17	-0.10
27	GMR	EPD	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	2.8	182.8	346	30	28.84	28.75	0.09
27	NPN	EPD	20 2 57.83					32	2.8	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 = 1.1 AVFM = 2.5 Q = C															
LONG = 115.932 W ERY = 0.7 GAP = 56 AVXM = QS = C MERCURY															
DEPTH = 0.79 KM ERZ = 3.1 NM = QD = 8															
31	MCY	EPD	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	3.88	4.64	-0.76
31	LSM	EPD	0 40 37.46					38	2.4	30.4	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	38	7.28	7.62	-0.29
31	APK	EPD	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	GMR	EPD	0 40 45.18					37	2.5	69.0	12	38	11.76	11.76	0.00
31	SHRG	EPD	0 40 46.20					22	2.1	73.7	109	38	12.78	12.52	0.31
31	FMT	EPD	0 40 52.15					30	2.4	76.3	263	38	18.73	12.95	5.88
31	BMT	EPD	0 40 48.13					30	2.4	81.9	319	38	14.71	13.86	0.46
31	EPR	EPD	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	2.8	108.9	46	38	18.70	18.25	0.45
31	QSM	EPD	0 40 53.65					33	2.6	119.1	225	38	20.23	19.91	0.32
31	KRNA	EPD	0 40 54.35					24	2.3	120.5	341	38	20.93	20.13	0.80
31	MTJ	EPD	0 40 54.60					32	2.6	120.7	29	38	21.18	20.16	1.22
31	CTS	EPD	0 40 54.51					22	2.2	123.6	325	38	21.09	20.63	0.46
31	GVN	EPD	0 40 54.11					35	2.7	129.4	284	38	20.69	21.59	-0.89
31	GMR	EPD	0 40 55.95					36	2.7	134.3	298	38	22.53	22.38	0.15
31	DLM	EPD	0 40 57.31					35	2.7	144.1	47	30	23.89	23.67	0.22
31	SRG	EPD	0 40 58.13					48	3.0	149.5	31	30	24.71	24.37	0.34
31	MGM	IPD	0 40 60.28					32	2.7	160.2	300	30	26.86	25.76	1.10



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.....															
OCT H = 18 11 9.65 UTC			RMS = 0.37	NO = 12		FREE DEPTH SOLUTION									
31 LAT = 37.193 N			ERX = 1.1	ERH = 1.6		AVFM = 2.1		Q = C		SILENT CANYON - YUCCA FLAT					
LONG = 116.184 W			ERY = 1.1	GAP = 72		AVXM =		QS = C							
DEPTH = 0.01 KM			ERZ = 453.5	NM =				QD = C							
.....															
31	EPN	IPU	18 11 12.13			45	2.5	12.6	281	38	2.48	2.75	-0.27		
31	GLR	IPU	18 11 12.00			26	2.0	14.8	87	38	2.35	3.11	-0.61		
31	BGB	IPD	18 11 13.32			32	2.2	17.6	193	38	3.67	3.57	0.15		
31	SSP	EPD	18 11 15.22			40	2.4	29.9	186	38	5.57	5.56	0.01		
31	BLT	EPD	18 11 15.35			35	2.3	30.1	8	38	5.70	5.60	0.10		
31	CPX	EPD	18 11 15.50			20	1.8	31.4	159	38	5.85	5.80	0.05		
31	BMT	EPD	18 11 16.73			22	1.9	32.6	288	38	7.08	6.00	0.68		
31	LOP	EPD	18 11 16.50			39	2.4	37.6	178	38	6.85	6.82	0.03		
31	GMR	IPD	18 11 17.24			18	1.8	39.8	67	38	7.59	7.18	0.41		
31	SPRG	EPD	18 11 22.11			15	1.7	64.7	149	38	12.46	11.22	1.24		
31	QCS	EPD	18 11 21.70			25	2.2	68.1	20	38	12.05	11.77	0.28		
31	CTS	EPD	18 11 21.00			27	2.2	69.0	316	38	11.35	11.92	-0.57		
31	SGV	IPD	18 11 23.54			27	2.3	79.0	253	38	13.89	13.54	0.35		
31	MTI	EPD	18 11 26.82			15	1.8	97.0	56	38	17.17	16.47	0.90		
31	GVN	EPD	18 11 28.43			28	2.4	105.1	258	38	18.78	17.79	0.98		
.....															
OCT H = 18 11 49.28 UTC			RMS = 0.00	NO = 5		FREE DEPTH SOLUTION									
31 LAT = 37.171 N			ERX = 0.0	ERH = 0.0		AVFM = 2.3		Q = C		SILENT CANYON - YUCCA FLAT					
LONG = 116.200 W			ERY = 0.0	GAP = 165		AVXM =		QS = A							
DEPTH = 7.50 KM			ERZ = 0.0	NM =				QD = D							
.....															
31	EPN	IPU	18 11 51.82			59	2.7	12.0	294	118	2.54	2.54	-0.00		
31	BGB	EPD	18 11 52.21			38	2.3	15.0	189	113	2.93	2.98	-0.00		
31	BLT	EPD	18 11 55.05			28	2.1	32.8	10	100	5.77	5.76	0.00		
31	LOP	EPD	18 11 55.45			30	2.2	35.3	175	100	6.17	6.17	0.00		
31	KRNA	EPD	18 12 0.45			24	2.1	66.2	346	95	11.17	11.16	0.00		
31	PRN	EPD	18 12 8.85			31	2.5	105.3	76	93	19.57	17.50	2.06		
.....															
OCT H = 18 15 51.35 UTC			RMS = 0.16	NO = 9		FREE DEPTH SOLUTION									
31 LAT = 37.196 N			ERX = 0.8	ERH = 1.1		AVFM = 2.1		Q = B		SILENT CANYON - YUCCA FLAT					
LONG = 116.239 W			ERY = 0.7	GAP = 101		AVXM =		QS = B							
DEPTH = 13.87 KM			ERZ = 1.7	NM =				QD = B							
.....															
31	EPN	IPU	18 15 54.02			43	2.4	7.7	285	149	2.67	2.77	-0.10		
31	BGB	IPD	18 15 55.17			35	2.3	17.6	177	126	3.82	3.87	0.00		
31	BMT	IPD	18 15 56.85			29	2.2	27.9	290	115	5.50	5.31	-0.21		
31	SSP	EPD	18 15 57.05			39	2.4	30.2	176	113	5.70	5.66	0.05		
31	BLT	EPD	18 15 57.25			29	2.2	30.8	18	112	5.90	5.76	0.14		
31	CPX	EPD	18 15 56.61			22	1.9	33.8	152	110	5.26	6.20	-0.94		
31	LOP	EPD	18 15 58.66			31	2.2	38.5	170	108	7.31	6.93	0.38		
31	GMR	EPD	18 15 59.01			20	1.9	44.2	70	106	7.66	7.82	-0.16		
31	CTS	EPD	18 16 3.60			22	2.0	65.4	319	101	12.25	11.17	1.08		
31	SGV	EPD	18 16 3.03			27	2.3	74.4	251	99	11.68	12.62	-0.93		
31	GVN	EPD	18 16 8.09			30	2.4	100.4	258	53	16.74	16.60	0.14		
.....															
31	MTI	EPD	18 16 10.19			10	1.5	100.8	58	53	18.84	16.66	2.38		
.....															
OCT H = 18 40 57.63 UTC			RMS = 0.17	NO = 7		FREE DEPTH SOLUTION									
31 LAT = 37.139 N			ERX = 1.1	ERH = 1.4		AVFM = 2.4		Q = B		SILENT CANYON - PAHUTE MESA					
LONG = 116.253 W			ERY = 0.8	GAP = 103		AVXM =		QS = B							
DEPTH = 9.01 KM			ERZ = 3.0	NM =				QD = B							
.....															
31	EPN	IPU	18 41 0.23			66	2.8	10.4	323	128	2.60	2.46	0.14		
31	BGB	EPD	18 41 0.00					11.5	169	125	2.37	2.59	-0.18		
31	SSP	EPD	18 41 2.45			57	2.7	24.0	173	108	4.82	4.43	0.38		
31	LOP	EPD	18 41 3.60			52	2.7	32.5	167	103	5.97	5.78	0.19		
31	BLT	EPD	18 41 4.05			22	1.9	37.3	16	101	6.42	6.53	-0.11		
31	GMR	EPD	18 41 5.79					47.9	63	99	8.16	8.23	-0.08		
31	SGV	EPD	18 41 9.53			22	2.1	71.5	256	96	11.90	12.04	-0.14		
.....															
OCT H = 18 43 4.45 UTC			RMS = 0.27	NO = 8		FREE DEPTH SOLUTION									
31 LAT = 37.203 N			ERX = 1.4	ERH = 1.9		AVFM = 2.4		Q = C		SILENT CANYON - NORTH					
LONG = 116.216 W			ERY = 1.2	GAP = 97		AVXM =		QS = C							
DEPTH = 8.15 KM			ERZ = 5.7	NM =				QD = B							
.....															
31	EPN	EPD	18 43 6.61			65	2.8	9.6	277	127	2.16	2.27	-0.12		
31	GLR	IPU	18 43 8.23			27	2.1	17.6	91	111	3.78	3.41	0.51		
31	BGB	IPD	18 43 7.76			40	2.4	18.4	183	111	3.31	3.53	-0.17		
31	BLT	EPD	18 43 9.60			39	2.4	29.5	14	103	5.15	5.27	-0.13		

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. 31	BMT	EPD4	18 43 11.95					32 2.2	29.6	288	103	7.50	5.28	1.82	.
. 31	SSP	EPD	18 43 9.64					39 2.4	30.9	180	102	5.19	5.48	-0.30	.
. 31	LOP	EPD	18 43 11.40					42 2.5	39.0	174	100	6.95	6.78	0.17	.
. 31	GMR	EPD	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					40 2.6	76.6	251	95	13.34	12.86	0.48	.
. 31	GVN	EPD4	18 43 23.30					29 2.4	102.6	257	94	18.85	17.07	1.77	.
.....															
OCT H = 19 18 13.53 UTC RMS = 0.24 NO = 8 FREE DEPTH SOLUTION															
. 31	LAT = 37.051 N			ERX = 1.7	ERH = 2.0	AVFM = 2.4	Q = B								
. 31	LONG = 116.165 W			ERY = 1.1	GAP = 112	AVXM =	QS = B	SILENT CANYON - YUCCA FLAT							
. 31	DEPTH = 12.19 KM			ERZ = 1.8	NM =		QD = B								
. 31	BGB	IPD	19 18 16.11					34 2.2	5.7	256	153	2.58	2.37	0.25	.
. 31	SSP	IPD4	19 18 15.00						14.7	199	127	1.47	3.33	-1.86	.
. 31	GLR	EPD4	19 18 14.00					26 2.0	21.1	38	118	0.47	4.20	-3.59	.
. 31	LCP	EPD	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	EPD	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	IPD	19 18 26.39					26 2.2	77.6	264	98	12.86	13.08	-0.22	.
. 31	GVN	EPD	19 18 31.22					31 2.5	104.9	267	53	17.69	17.35	0.33	.
. 31	PRN	EPD	19 18 31.25					29 2.4	106.6	68	53	17.72	17.57	0.14	.
.....															
OCT H = 19 46 11.39 UTC RMS = 0.23 NO = 14 FREE DEPTH SOLUTION															
. 31	LAT = 37.164 N			ERX = 0.8	ERH = 1.0	AVFM =	Q = C								
. 31	LONG = 116.219 W			ERY = 0.6	GAP = 100	AVXM =	QS = B	SILENT CANYON - YUCCA FLAT							
. 31	DEPTH = 7.44 KM			ERZ = 2.2	NM =		QD = C								
. 31	CPX	EPD	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	0.01	.
. 31	KRNA	IPD	19 46 22.01						66.6	348	95	10.62	11.22	-0.60	.
. 31	CTS	EPD	19 46 23.21						69.3	320	95	11.82	11.67	0.16	.
. 31	TPU	EPD	19 46 22.85						70.3	46	95	11.46	11.82	-0.36	.
. 31	QCS	EPD	19 46 23.85						72.2	22	95	12.46	12.12	0.34	.
. 31	SGV	EPD4	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	AMR	EPD	19 46 26.10						88.0	195	94	14.71	14.70	0.01	.
. 31	EPR	EPD	19 46 26.26						91.6	90	94	14.87	15.28	-0.41	.
. 31	GMN	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	300	53	20.88	19.65	1.42	.
. 31	ESD4		19 46 49.69									38.30	34.06	4.24	.
. 31	SHRG	EPD	19 46 30.86						119.9	128	53	19.47	19.76	-0.23	.
. 31	NPN	EPD	19 46 32.10						125.8	64	53	20.71	20.53	0.19	.
. 31	SRG	EPD	19 46 32.05						129.3	52	53	20.66	20.98	-0.32	.
. 31	PPK	EPD4	19 46 37.37						152.5	281	53	25.98	24.00	1.99	.
.....															
NOV H = 23 59 35.63 UTC RMS = 0.03 NO = 5 FREE DEPTH SOLUTION															
. 02	LAT = 37.344 N			ERX = 0.4	ERH = 1.0	AVFM = 2.1	Q = D								
. 02	LONG = 116.984 W			ERY = 0.9	GAP = 201	AVXM =	QS = C	THIRSTY CANYON							
. 02	DEPTH = 9.17 KM			ERZ = 5.4	NM =		QD = D								
. 02	GMN	IPD	23 59 40.19					16 1.6	24.9	259	108	4.56	4.59	-0.03	.
. 02	BMT	EPD	23 59 43.10					24 2.0	40.5	100	101	7.47	7.05	0.02	.
. 02	SGV	IPD	23 59 42.68					28 2.2	40.5	186	101	7.05	7.05	-0.01	.
. 02	GVN	IPD	23 59 44.19					19 1.9	49.6	220	99	8.56	8.51	0.05	.
. 02	MZP	EPD4	23 59 46.00					20 1.9	53.0	318	98	10.37	9.06	1.50	.
. 02	GLR	EPD4	23 59 52.98					22 2.1	87.2	101	95	17.35	14.58	2.92	.
. 02	LSM	EPD	23 59 51.02					28 2.3	92.3	137	95	15.39	15.42	-0.03	.
. 02	SDH	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 H = 2 17 27.19 UTC RMS = 0.00 NO = 4 FREE DEPTH SOLUTION															
. 03	LAT = 37.532 N			ERX =	ERH =	AVFM = 2.1	Q = C								
. 03	LONG = 115.310 W			ERY =	GAP = 130	AVXM =	QS = A	HIKU							
. 03	DEPTH = 14.73 KM			ERZ =	NM =		QD = D								
. 03	MTI	EPD	2 17 30.79					26 2.0	16.4	11	130	3.60	3.80	-0.00	.
. 03	PRN	IPD	2 17 32.41					38 2.4	26.8	121	117	5.22	5.22	0.00	.
. 03	NPN	IPD4	2 17 34.49					26 2.1	35.6	68	111	7.30	6.52	0.78	.

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. 03	GMR	EPD	2 17 35.38					24	2.1	46.4	242	106	8.19	8.19	-0.00
. 03	DLM	EPD	2 17 36.12					17	1.8	51.1	81	105	8.93	8.93	0.00

NOV H = 3 30 26.85 UTC RMS = 0.05 NO = 4 FREE DEPTH SOLUTION  
 . 03 LAT = 36.630 N ERX = 1.7 ERH = 3.3 AVFM = 2.2 Q = C  
 . LONG = 116.267 W ERY = 2.1 GAP = 203 AVXM = QS = A LATHROP WELLS  
 . DEPTH = 22.54 KM ERZ = 2.8 NM = QD = D

. 03	SDH	IPU	3 30 30.83			42	2.4	6.6	285	163		3.98	3.99	-0.01
. 03	LSM	IPU4	3 30 32.30			38	2.3	12.1	358	151		5.45	4.34	1.11
. 03	MCY	EPD	3 30 32.85			42	2.5	27.5	83	128		6.00	6.00	0.00
. 03	BGB	EPD4	3 30 33.49			29	2.2	45.4	4	115		6.64	8.49	-1.80
. 03	GLR	EPD	3 30 38.21			17	1.8	67.0	19	53		11.36	11.41	0.10
. 03	GMR	EPD	3 30 41.14			18	2.0	89.7	29	53		14.29	14.37	-0.07
. 03	MTI	EPD4	3 30 51.18			23	2.4	145.9	37	53		24.33	21.66	2.87

NOV H = 9 10 25.01 UTC RMS = 0.33 NO = 10 FREE DEPTH SOLUTION  
 . 03 LAT = 36.629 N ERX = 1.7 ERH = 3.3 AVFM = 3.3 Q = D  
 . LONG = 116.025 W ERY = 2.8 GAP = 216 AVXM = QS = C LATHROP WELLS  
 . DEPTH = 11.21 KM ERZ = 2.8 NM = QD = D

. 03	MCY	EPD	9 10 27.36			155	3.5	6.7	57	147		2.35	2.31	0.04
. 03	LSM	EPD	9 10 30.02			137	3.5	25.2	299	112		5.01	4.74	0.26
. 03	SDH	EPD	9 10 29.85			134	3.5	28.1	274	109		4.84	5.18	-0.35
. 03	SSP	EPD	9 10 31.45			145	3.6	37.1	332	105		6.44	6.58	-0.14
. 03	BGB	EPD4	9 10 31.41			79	3.1	48.8	338	101		6.40	8.44	-1.99
. 03	GLR	EPD	9 10 34.82			56	2.8	63.3	1	99		9.81	10.76	-0.80
. 03	EPN	EPD	9 10 37.19			85	3.2	70.1	338	98		12.18	11.86	0.31
. 03	GMR	EPD	9 10 38.78			77	3.2	81.4	16	97		13.77	13.68	0.09
. 03	BLT	EPD	9 10 41.00			80	3.3	92.8	354	96		15.99	15.53	0.46
. 03	PRN	EPD	9 10 44.50			91	3.5	122.4	45	53		19.49	19.72	-0.23
. 03	KRNA	EPD4	9 10 36.70			83	3.4	128.3	346	53		11.69	20.49	-8.80
. 03	MTI	EPD2	9 10 46.74			50	3.0	134.1	30	53		21.73	21.23	0.70

NOV H = 14 8 37.68 UTC RMS = 0.09 NO = 5 FREE DEPTH SOLUTION  
 . 03 LAT = 36.663 N ERX = 0.9 ERH = 2.2 AVFM = 2.4 Q = C  
 . LONG = 116.081 W ERY = 2.1 GAP = 174 AVXM = QS = B LATHROP WELLS  
 . DEPTH = 12.66 KM ERZ = 2.5 NM = QD = D

. 03	MCY	EPD	14 8 40.55			57	2.7	10.6	91	138		2.87	2.89	-0.02
. 03	LSM	EPD4	14 8 43.42			47	2.5	19.0	296	121		5.74	3.95	1.79
. 03	SDH	EPD	14 8 42.25			49	2.6	23.1	265	117		4.57	4.53	0.04
. 03	SSP	EPD4	14 8 47.00			18	1.8	31.5	337	110		9.32	5.79	3.53
. 03	BGB	EPD	14 8 45.19			35	2.4	43.6	343	105		7.51	7.66	-0.11
. 03	GLR	EPD4	14 8 50.00			31	2.3	59.7	5	101		12.32	10.23	2.23
. 03	BLT	EPD	14 8 53.20			52	2.9	88.7	357	97		15.52	14.88	0.63
. 03	KRNA	EPD	14 8 57.33			19	2.1	123.5	348	53		19.65	19.72	-0.07

NOV H = 6 49 50.88 UTC RMS = 0.23 NO = 18 FREE DEPTH SOLUTION  
 . 04 LAT = 37.666 N ERX = 0.7 ERH = 0.9 AVFM = 2.8 Q = B  
 . LONG = 114.974 W ERY = 0.6 GAP = 127 AVXM = QS = B HIGHLAND PEAK  
 . DEPTH = 1.25 KM ERZ = 0.8 NM = QD = B

. 04	NPN	IP	6 49 51.85			58	2.7	3.6	115	109		0.97	0.99	-0.02
. 04	DLM	IPU	6 49 54.86			35	2.3	21.8	108	38		3.98	3.99	-0.01
. 04	SRG	IP	6 49 55.40			74	3.0	25.4	341	38		4.52	4.57	-0.05
. 04	MTI	IP	6 49 55.45			44	2.5	26.4	273	38		4.57	4.74	0.03
. 04	PRN	IPU	6 49 55.75			64	2.8	29.5	193	38		4.87	5.25	-0.38
. 04	EPR	EPD4	6 50 9.74			65	3.0	58.3	199	38		18.86	9.93	8.93
. 04	TPU	EPD	6 50 1.00			49	2.7	60.0	264	38		10.12	10.21	-0.09
. 04	GMR	EPD	6 50 3.90			46	2.7	79.6	242	38		13.02	13.38	-0.36
. 04	QCS	EPD4	6 50 5.95			44	2.7	83.9	278	38		15.07	14.09	0.98
. 04	BLT	EPD	6 50 8.78			37	2.6	105.0	258	38		17.90	17.52	0.38
. 04	GLR	IPU	6 50 8.76			39	2.7	106.0	241	38		17.88	17.67	0.35
. 04	KRNA	EPD	6 50 12.00			48	2.9	124.4	274	38		21.12	20.68	0.44
. 04	CPX	EPD	6 50 12.05			35	2.7	126.3	230	38		21.17	20.98	0.19
. 04	EPN	EPD	6 50 12.79			63	3.2	129.6	247	38		21.91	21.52	0.39
. 04	SHRG	EPD	6 50 13.22			36	2.7	129.9	187	38		22.34	21.57	0.82
. 04	BGB	EPD	6 50 12.88			42	2.8	131.1	238	38		22.00	21.76	0.29
. 04	LDP	EPD	6 50 14.38			46	2.9	139.0	230	38		23.50	22.91	0.59
. 04	MCY	EPD	6 50 14.44			66	3.3	141.9	218	30		23.56	23.28	0.28
. 04	UMT	EPD4	6 50 17.16			57	3.1	144.3	253	30		26.28	23.60	2.28
. 04	LSM	EPD	6 50 16.52			60	3.2	154.5	228	30		25.64	24.92	0.72
. 04	CTS	EPD4	6 50 10.19			33	2.7	154.5	269	30		19.31	24.93	-5.62

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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	
. 04	APK	EPD4	6 50 17.85					39	2.9	158.7	200	30	26.97	25.47	1.50	
. 04	SGV	EPD	6 50 22.32					58	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 FREE DEPTH SOLUTION																
. 04 LAT = 36.243 N ERX = 0.5 ERH = 1.1 AVFM = 2.7 Q = C																
. LONG = 117.121 W ERY = 1.0 GAP = 265 AVXM = QS = B PANAMINT BUTTE																
. DEPTH = 1.89 KM ERZ = 0.6 NM = QD = D																
.....																
. 04	SGV	IPU	7 40 4.93					50	2.8	82.3	6	90	13.77	13.73	0.04	
. 04	LSM	EPD	7 40 6.79					73	3.2	93.9	54	90	15.63	15.62	0.01	
. 04	LOP	EPD	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	66	90	18.84	18.84	-0.00	
. 04	BGB	EPD	7 40 10.85					41	2.8	119.0	42	90	19.69	19.71	0.03	
. 04	CPX	EPD	7 40 11.33					34	2.6	121.8	51	90	20.17	20.16	0.02	
. 04	BMT	EPD	7 40 12.25					39	2.8	126.8	24	90	21.09	20.97	-0.28	
. 04	SPRG	EPD	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	MGM	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	EPD	7 40 15.19					33	2.7	148.9	332	53	24.03	24.07	-0.04	
. 04	CTS	EPD	7 40 16.57					45	3.0	159.0	13	53	25.41	25.38	0.03	
. 04	BLT	EPD	7 40 16.88					38	2.9	161.3	33	53	25.72	25.68	0.04	
. 04	GMR	EPD	7 40 18.09					12	1.9	170.8	45	53	26.93	26.91	0.02	
. 04	KRNA	EPD	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 25.18					14	2.2	225.5	55	53	34.02	34.02	0.00	
.....																
NOV H = 8 6 38.42 UTC RMS = 0.59 NO = 9 FREE DEPTH SOLUTION																
. 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 LATHROP WELLS																
. DEPTH = 20.92 KM ERZ = 3.1 NM = QD = D																
.....																
. 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	2.4	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	44.6	345	114	8.23	8.27	0.01	
. 04	GLR	EPD	8 6 49.05					21	2.0	61.3	7	108	10.63	10.81	-0.03	
. 04	BMT	EPD	8 6 51.21					21	2.1	80.4	331	53	12.79	13.31	-0.92	
. 04	GMR	EPD	8 6 52.35					18	1.9	81.2	21	53	13.93	13.42	0.51	
. 04	SGV	EPD	8 6 51.81					29	2.4	91.3	294	53	13.39	14.73	-1.34	
.....																
NOV H = 9 46 15.77 UTC RMS = 0.15 NO = 4 FREE DEPTH SOLUTION																
. 05 LAT = 37.143 N ERX = ERH = AVFM = 2.4 Q = C																
. LONG = 115.000 W ERY = GAP = 345 AVXM = QS = B ALAMO																
. DEPTH = 1.53 KM ERZ = NM = QD = D																
.....																
. 05	MCY	EPD	9 46 32.44					33	2.5	101.0	238	38	16.67	16.81	-0.15	
. 05	LOP	EPD	9 46 33.72					24	2.3	108.7	253	38	17.95	18.07	-0.12	
. 05	LSM	EPD	9 46 36.15					24	2.3	121.9	248	38	20.38	20.21	0.17	
. 05	SDH	EPD	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 FREE DEPTH SOLUTION																
. 06 LAT = 36.796 N ERX = 1.9 ERH = 2.3 AVFM = 1.6 Q = D																
. LONG = 115.994 W ERY = 1.3 GAP = 191 AVXM = QS = C MERCURY																
. DEPTH = 1.77 KM ERZ = 254.2 NM = QD = D																
.....																
. 06	MCY	EPD	5 52 34.70					24	1.9	15.2	169	90	2.81	2.82	-0.01	
. 06	CPX	EPD	5 52 34.70					11	1.3	15.8	339	90	2.81	2.93	-0.11	
. 06	LOP	EPD	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	4.36	4.52	-0.15	
. 06	CDH1	EPD	5 52 37.34					11	1.3	29.8	284	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 FREE DEPTH SOLUTION																
. 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 MERCURY																
. DEPTH = 2.84 KM ERZ = 6.8 NM = QD = B																
.....																
. 06	MCY	IPD	10 41 23.23					32	2.2	6.2	206	103	1.42	1.39	0.03	

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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	
. 06	SPRG	EPD	10 41 23.93					18	1.7	11.1	100	97	2.12	2.17	-0.05	.
. 06	LCP	EPD	10 41 26.40					24	2.0	26.3	307	93	4.59	4.64	-0.05	.
. 06	CPX	EPD	10 41 26.55					11	1.3	26.6	335	93	4.74	4.68	0.06	.
. 06	LSM	EPD	10 41 27.00					30	2.2	30.6	276	92	5.19	5.33	-0.14	.
. 06	CDH1	EPD4	10 41 32.39					4	0.5	38.2	296	92	10.58	6.57	4.01	.
. 06	GVN	EPD	10 41 43.38					7	1.3	129.8	284	90	21.57	21.46	0.11	.
. 06	MGM	EPD4	10 41 45.22					5	1.1	161.0	300	53	23.41	25.54	-2.13	.
.....																
. NOV H = 22 27 17.61 UTC RMS = 0.28 NO = 6 FREE DEPTH SOLUTION																
. 08 LAT = 37.185 N ERX = 3.0 ERH = 3.3 AVFM = 2.1 Q = C																
. LONG = 115.830 W ERY = 1.3 GAP = 159 AVXM = OS = C GROOM LAKE																
. DEPTH = 0.20 KM ERZ = 460.8 NM = QD = C																
.....																
. 08	GMR	EPD4	22 27 22.29					29	2.1	17.3	18	38	4.68	3.48	1.20	.
. 08	BGB	EPD4	22 27 26.83					27	2.1	38.9	245	38	9.22	6.99	2.28	.
. 08	BLT	EPD	22 27 24.50					30	2.2	40.9	319	38	6.89	7.31	-0.42	.
. 08	EPN	EPD4	22 27 27.10					39	2.5	43.9	274	38	9.49	7.81	1.68	.
. 08	SSP	EPD4	22 27 26.90					35	2.4	45.0	230	38	9.29	7.98	1.31	.
. 08	TPU	EPD	22 27 26.35					17	1.8	49.3	19	38	8.74	8.68	0.06	.
.....																
. 08	SPRG	EPD	22 27 26.92					16	1.7	54.5	178	38	9.31	9.52	-0.22	.
. 08	LSM	EPD	22 27 29.00					29	2.3	63.2	218	38	11.39	10.94	0.45	.
. 08	QCS	EPD	22 27 28.70					19	1.9	65.2	353	38	11.09	11.26	-0.17	.
. 08	PRN	EPD4	22 27 31.31					23	2.1	73.4	70	38	13.70	12.60	1.10	.
. 08	SDH	EPD4	22 27 31.85					30	2.3	75.1	217	38	14.24	12.87	1.37	.
. 08	KRNA	EPD	22 27 31.05					27	2.3	79.4	322	38	13.44	13.57	-0.13	.
. 08	NMN	EPD4	22 27 35.69					16	1.8	88.6	263	38	18.08	15.07	3.01	.
.....																
. NOV H = 2 25 29.36 UTC RMS = 0.46 NO = 7 FIXED DEPTH SOLUTION																
. 09 LAT = 36.130 N ERX = 19.3 ERH = 57.8 AVFM = 2.6 Q = D DEPTH CONTROL INADEQUATE																
. LONG = 116.154 W ERY = 54.5 GAP = 175 AVXM = OS = D ASH MEADOWS																
. DEPTH = 5.00 KM ERZ = 61.6 NM = QD = C																
.....																
. 09	NOP	EPD	2 25 30.10					41	2.4	0.2	141	177	0.74	0.99	-0.25	.
. 09	JON	EPD	2 25 35.01					37	2.4	34.7	8	96	5.65	6.02	-0.38	.
. 09	AMR	EPD	2 25 36.22					42	2.5	41.3	316	95	6.86	7.10	-0.24	.
. 09	SDH	EPD	2 25 39.77					36	2.5	59.6	344	93	10.41	10.05	0.35	.
. 09	MCY	EPD4	2 25 40.81					46	2.7	61.5	16	93	11.45	10.37	1.08	.
. 09	LSM	EPD	2 25 41.55					48	2.7	68.4	351	93	12.19	11.49	0.69	.
. 09	LCP	EPD	2 25 43.30					47	2.8	80.4	359	92	13.94	13.44	0.50	.
. 09	SSP	EPD	2 25 43.47					43	2.7	88.5	356	92	14.11	4.75	-0.64	.
.....																
. NOV H = 7 8 45.67 UTC RMS = 0.17 NO = 20 FIXED DEPTH SOLUTION																
. 09 LAT = 37.769 N ERX = 0.5 ERH = 0.6 AVFM = 2.8 Q = 8 DEPTH CONTROL INADEQUATE																
. LONG = 116.305 W ERY = 0.4 GAP = 86 AVXM = OS = 8 QUARTZITE MOUNTAIN																
. DEPTH = 3.71 KM ERZ = 3.4 NM = QD = 8																
.....																
. 09	KRNA	IPD	7 8 47.25					50	2.6	7.0	252	109	1.58	1.54	0.04	.
. 09	RVE	IPD	7 8 50.87					36	2.3	29.5	20	94	5.20	5.16	0.04	.
. 09	QCS	EPD	7 8 51.40					40	2.5	34.2	90	93	5.73	5.93	-0.20	.
. 09	BLT	IPD4	7 8 51.27					46	2.6	37.3	156	93	5.60	6.43	-0.83	.
. 09	CTS	EPD	7 8 52.10					38	2.4	39.8	249	93	6.43	6.83	-0.39	.
. 09	BMT	IPD	7 8 55.91					65	3.0	57.6	201	92	10.24	9.72	0.12	.
. 09	TPU	EPD	7 8 55.92					40	2.5	60.7	107	92	10.25	10.23	0.03	.
. 09	EPN	EPD	7 8 56.20					74	3.1	61.6	182	92	10.53	10.38	0.15	.
. 09	GMR	IPD	7 8 57.10					43	2.6	67.5	136	92	11.43	11.34	0.09	.
. 09	BGB	EPD	7 8 59.10					51	2.8	81.5	175	91	13.43	13.61	-0.13	.
. 09	TNP	EPD	7 9 0.33					39	2.6	87.5	293	91	14.66	14.59	0.07	.
. 09	MTI	EPD	7 9 0.78					40	2.7	91.6	96	91	15.11	15.27	0.04	.
. 09	CPX	EPD	7 9 1.36					40	2.7	95.8	167	91	15.69	15.95	-0.26	.
. 09	GMN	IPD4	7 9 9.03					42	2.7	99.2	238	91	23.36	16.50	6.86	.
. 09	LCP	EPD	7 9 2.90					50	2.9	102.3	173	90	17.23	16.98	0.25	.
. 09	LSM	EPD	7 9 4.70					55	3.0	114.4	179	90	19.03	18.95	0.08	.
. 09	PRN	IPD	7 9 5.01					74	3.3	117.9	110	90	19.34	19.53	-0.18	.
. 09	EPR	EPD	7 9 5.19					87	3.4	119.3	124	90	19.52	19.75	-0.22	.
. 09	NPN	EPD	7 9 6.45					54	3.0	121.4	96	90	20.78	20.08	0.70	.
. 09	GVN	IPD	7 9 6.59					44	2.9	125.3	227	90	20.92	20.72	0.20	.
. 09	MCY	EPD	7 9 6.57					48	2.9	126.6	166	90	20.90	20.94	-0.04	.
. 09	DLM	EPD4	7 9 9.51					41	2.8	139.3	97	53	23.84	22.65	1.19	.
. 09	PPK	EPD	7 9 10.31					37	2.8	146.5	255	53	24.64	23.58	1.06	.
. 09	SHRG	EPD4	7 9 14.78					66	3.4	173.6	144	53	29.11	27.11	2.06	.
.....																
. NOV H = 13 58 35.97 UTC RMS = 0.01 NO = 3 FIXED DEPTH SOLUTION																
. 09 LAT = 36.774 N ERX = ERH = AVFM = 1.8 Q = C DEPTH CONTROL INADEQUATE																
. LONG = 116.013 W ERY = GAP = 217 AVXM = OS = A LATHROP WELLS																

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NOV 1980	STA	PHASE	TIME (UTC)	AMP (MU)	P.R (SFC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. DEPTH = 5.00 KM      ERZ =      NM =      QD = D															
. 09	MCY	EPD	13 58 38.55				26	2.0	13.2	160	105	2.58	2.58	0.00	
. 09	LOP	EPD	13 58 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	4.18	4.19	-0.01	
. NOV H = 1 43 51.42 UTC    RMS = 0.00    NO = 3    FIXED DEPTH SOLUTION															
. 11 LAT = 36.738 N    ERX =    ERH =    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 43 52.59				21	1.8	3.3	271	142	1.17	1.17	-0.00	
. 11	LCP	EPD	1 43 54.15				15	1.5	14.2	25	104	2.73	2.73	0.00	
. 11	MCY	EPD	1 43 56.01				16	1.6	25.8	109	98	4.59	4.59	-0.00	
. NOV H = 8 33 4.01 UTC    RMS = 0.36    NO = 19    FIXED DEPTH SOLUTION															
. 11 LAT = 37.302 N    ERX = 1.1    ERH = 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	BMT	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	5.84	5.94	-0.10	
. 11	BGB	IPU	8 33 10.22				41	2.5	36.2	144	95	6.21	6.26	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	8.16	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	EPD	8 33 13.15				65	3.0	56.4	152	93	9.14	9.53	-0.39	
. 11	BRO	IPD	8 33 14.12				50	2.7	61.5	193	93	10.11	10.37	-0.26	
. 11	GMR	EPD	8 33 14.00				41	2.6	61.7	87	93	9.99	10.40	-0.41	
. 11	LSM	EPD	8 33 15.21				72	3.1	64.8	165	93	11.20	10.91	0.29	
. 11	QCS	EPD	8 33 15.52				40	2.6	70.9	43	93	11.51	11.90	-0.39	
. 11	SDH	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	EPD4	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	148	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	AMR	EPD4	8 33 21.61				52	2.9	100.4	180	92	17.60	16.69	0.91	
. 11	JON	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	18.10	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 26.38				40	2.8	128.4	276	53	22.37	21.12	1.25	
. 11	NPN	EPD	8 33 26.89				79	3.4	140.7	74	53	22.88	22.72	0.16	
. 11	SHRG	EPD2	8 33 28.44				41	2.9	146.6	127	53	24.43	23.49	0.99	
. 11	DLM	EPD4	8 33 29.90				40	2.9	156.4	78	53	25.89	24.76	1.13	
. NOV H = 11 4 59.01 UTC    RMS = 0.43    NO = 11    FREE DEPTH SOLUTION															
. 11 LAT = 37.279 N    ERX = 1.1    ERH = 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 = 8															
. 11	EPN	IPD	11 5 2.78				45	2.5	17.8	114	114	3.77	3.50	0.26	
. 11	BGB	IPD	11 5 5.82				29	2.2	36.5	137	102	6.81	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	KRNA	EPD	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	EPD3	11 5 9.00				35	2.4	63.5	161	97	9.99	10.75	-0.76	
. 11	GMR	EPD	11 5 10.00				23	2.1	65.6	85	97	10.99	11.08	-0.09	
. 11	GMN	IPD	11 5 10.47				35	2.5	66.7	272	96	11.46	11.27	0.18	
. 11	ISD		11 5 18.45									14.44	19.73	-0.29	
. 11	SDH	EPD4	11 5 13.50				31	2.4	71.9	168	96	14.49	12.10	2.38	
. 11	GVN	EPD4	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 H = 12 36 12.92 UTC    RMS = 0.00    NO = 3    FIXED DEPTH SOLUTION															
. 11 LAT = 36.700 N    ERX =    ERH =    AVFM = 2.0    Q = C    DEPTH CONTROL INADEQUATE															
. LONG = 116.268 W    ERY =    GAP = 130    AVXM =    QS = A    LATHROP WELLS															
. DEPTH = 5.00 KM    ERZ =    NM =    QD = D															

**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
.....															
. 11	ISM	EPU	12 36 14.20					25 1.9	4.3	356	133	1.28	1.28	0.00	
. 11	SDH	EPD	12 36 14.80					25 2.0	8.7	226	114	1.88	1.88	0.00	
. 11	MCY	EPD	12 36 17.80					26 2.1	27.7	99	97	4.88	4.89	-0.00	
.....															
NOV H = 9 44 44.54 UTC RMS = 0.17 NO = 8 FREE DEPTH SOLUTION															
. 12 LAT = 37.314 N ERX = 0.9 ERH = 1.4 AVFM = 2.2 Q = B															
. LONG = 116.431 W ERY = 1.1 GAP = 81 AVXM = QS = B SILENT CANYON - NORTH															
. DEPTH = 12.14 KM ERZ = 3.2 NM = QD = A															
.....															
. 12	BMT	EPU	9 44 47.82					22 1.8	9.7	250	139	3.28	2.72	0.15	
. 12	EPN	IPU	9 44 47.72					49 2.6	14.6	139	127	3.18	3.31	-0.13	
. 12	BLT	EPU	9 44 50.37					28 2.1	30.9	58	109	5.83	5.67	0.15	
. 12	CTS	IPU	9 44 52.30					21 1.9	44.6	324	104	7.76	7.80	-0.05	
. 12	KRNA	IPD	9 44 52.70					29 2.2	48.6	5	102	8.16	8.45	-0.29	
. 12	SGV	EPD	9 44 55.45					18 1.9	64.9	235	99	10.91	11.05	-0.14	
. 12	SDH	EPD3	9 44 56.44					32 2.4	74.6	174	98	11.90	12.61	-0.71	
. 12	MCY	EPD4	9 44 54.30					36 2.5	83.5	150	97	9.76	14.04	-4.29	
. 12	GVN	EPD	9 44 59.55					25 2.2	88.0	247	97	15.01	14.76	0.24	
.....															
NOV H = 19 7 44.57 UTC RMS = 0.17 NO = 7 FIXED DEPTH SOLUTION															
. 13 LAT = 36.996 N ERX = 1.6 ERH = 1.8 AVFM = 1.8 Q = C															
. LONG = 116.229 W ERY = 0.8 GAP = 168 AVXM = QS = B DEPTH CONTROL INADEQUATE															
. DEPTH = 5.00 KM ERZ = 3.1 NM = QD = C LATHROP WELLS															
.....															
. 13	BGB	IPD	19 7 45.72					22 1.8	4.6	2	131	1.15	1.31	-0.11	
. 13	SSP	IPU	19 7 46.37					30 2.1	8.0	173	116	1.80	1.78	0.02	
. 13	LOP	EPU	19 7 47.68					27 2.1	16.7	161	102	3.11	3.13	-0.02	
. 13	CPX	EPD	19 7 47.79					7 0.9	17.0	116	102	3.22	3.17	0.05	
. 13	EPN	EPD	19 7 49.21					31 2.2	25.6	341	98	4.64	4.55	0.09	
. 13	GLR	EPD	19 7 49.24					17 1.7	29.3	40	97	4.67	5.16	-0.34	
. 13	GMR	EPD	19 7 54.26					14 1.6	55.3	47	93	9.69	9.36	0.33	
.....															
NOV H = 17 10 26.79 UTC RMS = 0.61 NO = 17 FREE DEPTH SOLUTION															
. 14 LAT = 37.081 N ERX = 1.8 ERH = 2.4 AVFM = 3.2 Q = D															
. LONG = 116.003 W ERY = 1.6 GAP = 100 AVXM = QS = D SILENT CANYON - YUCCA FLAT															
. DEPTH = 1.81 KM ERZ = 10.5 NM = QD = C															
.....															
. 14	CPX	EPD4	17 10 30.71					92 3.1	17.6	196	90	3.92	3.21	0.72	
. 14	SSP	EPU	17 10 31.05					220 3.9	25.8	228	90	4.26	4.55	-0.28	
. 14	LOP	EPU	17 10 31.45					210 3.9	29.1	210	90	4.66	5.08	-0.42	
. 14	GMR	EPD	17 10 31.95					98 3.2	34.8	36	90	5.16	6.02	-0.85	
. 14	CDH5	EPD4	17 10 37.27					89 3.2	37.1	229	90	10.48	6.39	4.09	
. 14	SPRG	EPD	17 10 34.75					72 3.0	46.3	158	90	7.96	7.88	0.09	
. 14	SDH	EPD4	17 10 37.30					113 3.4	56.8	212	90	10.51	9.58	0.93	
. 14	TPU	EPU	17 10 37.35					63 3.0	66.1	28	90	10.56	11.10	-0.54	
. 14	JON	EPD	17 10 38.75					120 3.5	71.7	187	90	11.96	12.01	-0.04	
. 14	EPR	EPD	17 10 39.40					85 3.2	73.3	82	90	12.61	12.27	0.35	
. 14	GCS	EPU	17 10 39.63					105 3.4	76.6	6	90	12.84	12.81	0.03	
. 14	PRN	EPD	17 10 41.58					79 3.2	92.1	67	90	14.79	15.32	-0.53	
. 14	SHRG	EPU	17 10 43.94					54 2.9	99.1	130	90	17.15	16.47	0.74	
. 14	NOP	EPU	17 10 43.42					35 2.6	106.6	187	90	16.63	17.68	-1.05	
. 14	NPN	EPU	17 10 46.51					48 2.9	113.8	56	90	19.72	18.85	0.87	
. 14	GVN	EPU	17 10 47.10					56 3.0	119.5	266	90	20.31	19.79	0.53	
. 14	SRG	EPD	17 10 47.83					73 3.3	121.5	43	90	21.04	20.10	0.94	
. 14	MCA	EPU3	17 10 48.52					51 3.0	123.6	247	90	21.73	20.44	1.29	
. 14	PGE	EPD4	17 10 49.48					70 3.3	124.9	229	90	22.69	20.67	2.03	
. 14	DLM	EPD	17 10 48.70					41 2.8	126.4	63	90	21.91	20.90	1.02	
. 14	GSM	EPU	17 10 51.56					47 3.0	146.0	212	53	24.77	23.71	1.07	
.....															
NOV H = 17 15 35.51 UTC RMS = 0.26 NO = 17 FREE DEPTH SOLUTION															
. 14 LAT = 37.089 N ERX = 0.9 ERH = 1.1 AVFM = 4.3 Q = C															
. LONG = 115.965 W ERY = 0.7 GAP = 81 AVXM = QS = C GROOM LAKE															
. DEPTH = 0.83 KM ERZ = 20.3 NM = QD = C															
.....															
. 14	CPX	EPD	17 15 38.91					279 4.1	19.7	205	38	3.40	3.73	-0.33	
. 14	SSP	IPU	17 15 41.01						29.0	231	38	5.50	5.25	0.25	
. 14	LOP	IPU	17 15 40.74						31.7	215	38	5.23	5.69	-0.46	
. 14	GMR	EPD	17 15 40.97					319 4.2	32.1	32	38	5.46	5.75	-0.29	
. 14	SPRG	EPU	17 15 43.80					268 4.1	46.0	162	38	8.29	8.01	0.28	
. 14	TPU	EPD	17 15 46.36					284 4.3	63.7	26	38	10.85	10.89	-0.04	
. 14	HRO	EPU	17 15 47.40					232 4.1	69.1	238	38	11.89	11.78	0.12	
. 14	EPR	EPD4	17 15 48.25					292 4.3	69.7	83	38	12.74	11.87	0.87	
. 14	JON	EPU	17 15 47.64						73.1	190	38	12.13	12.42	-0.29	

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
. 14	QCS	EPD	17 15 48.50						75.4	3	38	12.99	12.80	0.20	.
. 14	FMT	EPD4	17 15 56.41				253	4.2	88.1	235	38	20.90	14.85	6.15	.
. 14	PRN	IPU	17 15 50.39				295	4.4	88.6	67	38	14.88	14.93	-0.05	.
. 14	AMR	EPD	17 15 50.10						89.2	211	38	14.59	15.04	-0.45	.
. 14	MTI	EPD4	17 15 51.31				268	4.3	89.5	43	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	SHRG	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						108.0	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	DLM	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	QSM	EPD4	17 16 0.67						148.7	213	30	25.16	24.26	0.90	.
. 14	PPK	EPU	17 16 3.50				247	4.5	176.2	282	30	27.99	27.84	0.15	.

NOV H = 3 15 8.81 UTC RMS = 0.08 NO = 16 FREE DEPTH SOLUTION  
 19 LAT = 37.134 N ERX = 0.2 ERH = 0.3 AVFM = 2.3 Q = B  
 LONG = 116.591 W ERY = 0.2 GAP = 89 AVXM = Q = A THIRSTY CANYON  
 DEPTH = 16.11 KM ERZ = 0.6 NM = QD = B

. 19	BMT	IPU4	3 15 11.19				43	2.5	17.3	17	131	2.38	4.06	-2.07	.
. 19	EPN	IPD	3 15 13.83				70	2.9	25.3	70	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	CDH1	IPD	3 15 15.83				26	2.1	39.0	141	111	7.02	7.12	-0.09	.
. 19	CDH5	EPD4	3 15 20.88				9	1.2	39.0	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	42.8	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 18.50				29	2.2	54.3	48	105	9.69	9.50	0.20	.
.	ESD		3 15 25.44									16.63	16.62	0.01	.
. 19	CTS	IPU	3 15 18.67				30	2.3	57.4	348	104	9.86	9.97	-0.11	.
. 19	SDH	EPD	3 15 19.00				35	2.4	58.8	157	104	10.19	10.19	-0.00	.
. 19	GMN	EPD4	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	68.4	258	102	11.72	11.73	-0.00	.
.	ISU		3 15 29.39									20.58	20.52	0.07	.
. 19	KRNA	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 H = 8 43 56.49 UTC RMS = 0.20 NO = 14 FIXED DEPTH SOLUTION  
 19 LAT = 37.219 N ERY = 0.5 ERH = 0.9 AVFM = 2.4 Q = C DEPTH CONTROL INADEQUATE  
 LONG = 115.635 W ERY = 0.7 GAP = 107 AVXM = Q = 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 6.14				29	2.3	55.9	68	93	9.65	9.45	0.20	.
. 19	BGB	EPD4	8 44 6.59				22	2.0	56.4	249	93	10.10	9.55	0.60	.
. 19	EPN	EPD	8 44 7.06						61.2	269	93	10.57	10.32	0.25	.
. 19	LDP	EPD	8 44 7.31						62.4	229	93	10.82	10.51	0.31	.
. 19	MCY	EPU	8 44 7.90				44	2.7	68.4	205	93	11.41	11.50	-0.08	.
. 19	CDH1	EPD4	8 44 9.61				19	1.9	72.7	237	93	13.12	12.19	0.93	.
. 19	LSM	EPD	8 44 9.40				44	2.7	77.9	227	92	12.91	13.03	-0.11	.
. 19	NPN	EPD	8 44 9.50				38	2.6	78.3	52	92	13.01	13.09	-0.08	.
. 19	BMT	EPU	8 44 10.56				22	2.1	80.0	275	92	14.07	13.38	0.29	.
. 19	KRNA	EPD	8 44 11.22				34	2.5	88.4	312	92	14.73	14.74	-0.01	.
.	ESD		8 44 21.75									25.26	25.80	-0.54	.
. 19	SRG	EPD	8 44 11.42				37	2.6	89.0	34	92	14.93	14.83	0.10	.
. 19	SDH	EPD4	8 44 12.90						89.4	225	92	16.41	14.90	1.51	.
. 19	JON	EPU	8 44 12.20				31	2.4	96.1	206	92	15.71	15.99	-0.28	.
. 19	NOP	EPD4	8 44 19.98				34	2.6	129.7	201	53	23.49	21.27	2.22	.

NOV H = 9 2 41.18 UTC RMS = 0.17 NO = 5 FREE DEPTH SOLUTION  
 19 LAT = 36.613 N ERX = 3.4 ERH = 3.8 AVFM = 1.8 Q = D  
 LONG = 116.250 W ERY = 1.8 GAP = 207 AVXM = Q = C LATHROP WELLS  
 DEPTH = 9.14 KM ERZ = 9.2 NM = QD = D

. 19	LSM	IPU	9 2 44.04				25	2.0	14.1	352	120	2.86	2.97	-0.11	.
. 19	JON	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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NOV 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DEG)	AIN (DEG)	TORS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
19	GLR	EPU	9 2 52.33					13 1.6	68.3	18	96	11.15	11.52	-0.22	
19	GMR	EPU4	9 2 55.18					17 1.9	90.6	28	95	14.00	15.14	-1.14	
.....															
NOV H = 2 50 17.27 UTC RMS = 0.24 NO = 6 FREE DEPTH SOLUTION															
20 LAT = 37.797 N ERX = 13.5 ERH = 93.0 AVFM = 1.8 Q = D															
LONG = 116.305 W ERY = 92.0 GAP = 327 AVXM = QS = D QUARTZITE MOUNTAIN															
DEPTH = 9.28 KM ERZ = 29.7 NM = QD = D															
.....															
20	BMT	IPU	2 50 27.89				4	0.5	60.5	200	97	10.62	10.26	-0.04	
20	BGB	EPU	2 50 31.91				27	2.3	84.5	175	95	14.64	14.15	0.54	
20	SSP	IPD	2 50 33.84				23	2.2	97.1	175	95	16.57	16.18	0.39	
20	CPX	IPD	2 50 33.51				14	1.8	98.8	167	94	16.24	16.46	-0.22	
20	CDH5	IPU4	2 50 35.30				9	1.4	103.9	181	94	18.03	17.30	0.73	
20	CDH1	IPU4	2 50 35.37				19	2.1	103.9	181	94	18.10	17.30	0.80	
20	LOP	IPD	2 50 34.33				23	2.2	105.3	173	94	17.06	17.52	-0.46	
20	MCY	IPU	2 50 38.15				20	2.2	129.6	166	53	20.88	20.84	0.04	
.....															
NOV H = 3 52 55.46 UTC RMS = 0.27 NO = 5 FREE DEPTH SOLUTION															
21 LAT = 37.468 N ERX = 3.2 ERH = 7.3 AVFM = 2.4 Q = D															
LONG = 116.877 W ERY = 6.6 GAP = 217 AVXM = QS = D THIRSTY CANYON															
DEPTH = 2.83 KM ERZ = 260.3 NM = QD = D															
.....															
21	BMT	IPU	3 53 2.02				45	2.6	36.7	124	92	6.56	6.33	-0.17	
21	GMN	IPU	3 53 1.92				28	2.2	38.7	241	92	6.46	6.64	-0.19	
21	MGM	IPU	3 53 5.01				31	2.3	54.8	267	91	9.55	9.28	0.27	
21	SGV	EPD	3 53 5.27				42	2.6	55.8	194	91	9.81	9.44	0.37	
21	GVN	EPD4	3 53 6.14				42	2.6	66.3	219	90	10.68	11.13	-0.45	
21	LCH	EPU4	3 53 8.33				27	2.2	72.9	249	90	12.87	12.21	0.65	
		ISD	3 53 16.49									21.03	21.37	-0.35	
.....															
NOV H = 3 35 28.53 UTC RMS = 0.00 NO = 3 FIXED DEPTH SOLUTION															
21 LAT = 37.401 N ERX = ERH = AVFM = 2.3 Q = C DEPTH CONTROL INADEQUATE															
LONG = 115.067 W ERY = GAP = 264 AVXM = QS = A ALAMO															
DEPTH = 5.00 KM ERZ = NM = QD = D															
.....															
21	PRN	IPD	3 35 29.57				46	2.5	1.7	66	159	1.04	1.04	0.00	
21	NPN	IPU	3 35 33.84				25	2.0	30.2	22	97	5.31	5.30	0.01	
21	MTI	EPD	3 35 34.50				33	2.3	35.6	329	95	5.97	6.17	-0.00	
.....															
NOV H = 4 58 53.67 UTC RMS = 0.20 NO = 16 FREE DEPTH SOLUTION															
22 LAT = 36.507 N ERX = 0.6 ERH = 0.9 AVFM = 2.2 Q = C															
LONG = 116.588 W ERY = 0.7 GAP = 169 AVXM = QS = B CHLORIDE CLIFF															
DEPTH = 9.76 KM ERZ = 2.0 NM = QD = C															
.....															
22	AMR	IPU	4 58 56.90				38	2.3	15.8	140	119	3.23	3.26	-0.03	
22	FMT	EPU	4 58 57.61				17	1.7	22.6	311	111	3.94	4.26	-0.22	
22	SDH	IPU	4 58 58.50				32	2.2	27.1	55	107	4.83	4.96	-0.13	
22	BRO	EPD2	4 58 59.50				15	1.6	28.6	353	106	5.83	5.19	0.64	
22	LSM	IPD	4 59 0.30				39	2.4	38.3	48	102	6.63	6.71	-0.09	
22	JON	EPD	4 59 1.60				30	2.2	44.1	100	101	7.93	7.64	0.29	
22	CDH1	EPD	4 59 1.50				24	2.1	46.1	32	100	7.83	7.96	-0.13	
22	LOP	EPU	4 59 2.90				36	2.4	53.8	44	99	9.23	9.20	0.02	
22	NOP	EPU	4 59 3.50				26	2.2	57.4	137	98	9.83	9.78	0.05	
22	MCY	EPU	4 59 3.75				39	2.5	58.6	73	98	10.08	9.97	0.11	
22	SGV	EPU	4 59 4.92				25	2.2	65.9	323	97	11.25	11.16	0.09	
22	BGB	EPU	4 59 5.06				23	2.1	67.1	29	97	11.39	11.35	0.09	
22	SPRG	EPU2	4 59 5.20				9	1.3	72.7	73	96	11.53	12.25	-0.72	
22	BMT	EPD	4 59 8.34						86.3	3	95	14.67	14.45	-0.18	
22	GVN	EPD	4 59 8.58				29	2.4	86.9	309	95	14.91	14.54	0.37	
22	SHRG	EPD	4 59 13.85				37	2.7	128.4	90	53	20.18	20.64	-0.41	
.....															
NOV H = 19 16 25.92 UTC RMS = 0.08 NO = 8 FREE DEPTH SOLUTION															
22 LAT = 36.515 N ERX = 1.9 ERH = 2.0 AVFM = 2.3 Q = C															
LONG = 116.639 W ERY = 0.4 GAP = 265 AVXM = QS = B CHLORIDE CLIFF															
DEPTH = 5.67 KM ERZ = 4.5 NM = QD = D															
.....															
22	AMR	IPU	19 16 29.53				30	2.2	19.7	131	102	3.61	3.62	-0.01	
22	SDH	IPU	19 16 31.14				37	2.4	30.5	62	98	5.22	5.36	-0.14	
22	LSM	IPD	19 16 32.96				35	2.4	41.2	53	96	7.04	7.08	-0.04	
22	JON	EPD	19 16 34.27				31	2.3	48.7	100	95	8.35	8.30	0.05	
22	LOP	EPU	19 16 35.50				33	2.4	56.5	48	94	9.58	9.56	0.02	
22	SSP	EPU	19 16 36.05				31	2.3	59.0	40	94	10.13	9.97	0.16	
22	NOP	EPU	19 16 36.20				27	2.2	61.2	135	94	10.28	10.33	-0.05	
22	MCY	EPD	19 16 36.50				39	2.5	62.7	75	94	10.58	10.57	0.02	

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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 H = 22	6	32.31	UTC	RMS =	0.24	NO = 10									FREE DEPTH SOLUTION
22 LAT =	36.535	N		ERX =	1.0	ERH = 1.5		AVFM =	1.9	Q = C					
22 LONG =	115.815	W		ERY =	1.0	GAP = 120		AVXM =		QS = C					MERCURY
22 DEPTH =	9.37	KM		ERZ =	7.3	NM =				QD = C					
.....															
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	248	106	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	318	99	8.31	8.17	0.14	
22	LOP	IPD	22 6 40.62					24 2.1	47.4	318	99	8.31	8.17	0.14	
22	SDH	EPD	22 6 40.70					19 1.9	48.4	285	99	8.39	8.32	0.06	
22	CPX	EPD	22 6 40.76						48.8	334	99	8.45	8.39	0.05	
22	NOP	EPD	22 6 41.34					12 1.5	54.4	214	98	9.03	9.28	-0.26	
22	SHRG	IPU	22 6 41.95						59.2	93	98	9.64	10.06	-0.38	
.....															
NOV H = 1	11	44.51	UTC	RMS =	0.23	NO = 7									FREE DEPTH SOLUTION
23 LAT =	37.170	N		ERX =	2.9	ERH = 3.2		AVFM =	2.1	Q = D					
23 LONG =	114.682	W		ERY =	1.4	GAP = 216		AVXM =		QS = C					DELAMAR MOUNTAINS
23 DEPTH =	4.57	KM		ERZ =	4.2	NM =				QD = D					
.....															
23	PRN	EPD	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	44.8	270	94	7.51	7.66	-0.15	
23	DLM	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	58.1	337	93	9.89	9.81	0.08	
23	MTI	EPD4	1 11 58.40					32 2.4	76.8	317	92	13.89	12.85	1.24	
23	SHRG	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	EPD	1 12 0.51					22 2.2	98.3	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	LOP	EPD4	1 12 9.01					14 1.9	136.9	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	EPD4	1 12 9.81					14 1.9	149.4	251	53	25.30	23.88	1.42	
23	JCN	EPD4	1 12 10.52					15 2.0	150.6	237	53	26.01	24.02	1.99	
23	SDH	EPD4	1 12 15.85					16 2.1	158.7	248	53	31.34	25.09	6.25	
.....															
NOV H = 2	57	24.19	UTC	RMS =	0.16	NO = 12									FREE DEPTH SOLUTION
23 LAT =	36.526	N		ERX =	0.5	ERH = 0.7		AVFM =	2.3	Q = C					
23 LONG =	115.545	W		ERY =	0.5	GAP = 94		AVXM =		QS = C					MERCURY
23 DEPTH =	0.36	KM		ERZ =	20.5	NM =				QD = C					
.....															
23	APK	EP	2 57 28.61					27 2.1	23.1	187	38	4.42	4.38	0.04	
23	SPRG	EPD1	2 57 29.20					27 2.1	30.1	308	38	5.01	5.53	-0.51	
23	SHRG	EPD	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	EPD	2 57 35.30					15 1.7	64.1	314	38	11.11	11.04	0.07	
23	LOP	EPD	2 57 35.50					39 2.5	66.5	303	38	11.31	11.44	-0.13	
23	LSM	EPD	2 57 35.95					40 2.6	69.2	290	38	11.76	11.88	-0.12	
23	SDH	EPD	2 57 36.50					23 2.1	72.2	281	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	EPD4	2 57 41.71					9 1.4	100.2	285	38	17.52	16.92	0.60	
23	PRN	EPD4	2 57 43.11					32 2.5	107.2	24	38	18.92	18.07	0.85	
23	BMT	EPD	2 57 45.24					34 2.6	121.8	314	38	21.05	20.43	0.22	
23	MTI	EPD	2 57 46.15					25 2.4	130.0	11	38	21.96	21.76	0.40	
23	NPN	EPD0	2 57 47.57					31 2.6	136.2	23	30	23.38	22.75	0.63	
23	SGV	EPD4	2 57 48.55					33 2.7	142.0	291	30	24.36	23.50	0.86	
23	GVN	EPD4	2 57 53.00					35 2.8	168.9	288	30	28.81	26.99	1.82	
23	MZP	EPD4	2 57 53.74					15 2.2	209.0	309	30	29.55	32.21	-2.46	
.....															
NOV H = 4	48	28.60	UTC	RMS =	0.22	NO = 12									FREE DEPTH SOLUTION
23 LAT =	36.531	N		ERX =	0.4	ERH = 0.6		AVFM =	2.3	Q = C					
23 LONG =	115.554	W		ERY =	0.5	GAP = 90		AVXM =		QS = C					MERCURY
23 DEPTH =	0.31	KM		ERZ =	9.0	NM =				QD = C					
.....															
23	APK	EPD	4 48 33.05					23 1.9	23.5	184	38	4.45	4.46	-0.02	
23	SPRG	EPD4	4 48 35.23					23 2.0	29.2	308	38	6.63	5.38	1.25	
23	SHRG	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	EPD	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	63.1	314	38	10.90	10.90	-0.00	
23	LOP	EPD	4 48 39.90					30 2.3	65.5	303	38	11.30	11.29	0.00	
23	LSM	EPD3	4 48 39.80					29 2.3	68.3	290	38	11.20	11.74	-0.54	
23	SDH	EPD	4 48 40.80					25 2.2	71.3	280	38	12.20	12.23	-0.04	
23	PRN	EPD4	4 48 48.21					35 2.6	107.1	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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NOV 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	FMAG	DIST (KM)	AZI (DFG)	AIN (DEG)	TOBS (SEC)	TCAL (SEC)	RES (SEC)	REMARKS
. 23	NMN	EPD4	4 48 52.97						128.3	298	38	24.37	21.50	2.87	
. 23	MTI	EPD3	4 48 51.07					25	2.4	129.6	11	38	22.47	21.71	0.96
. 23	NPN	EPD	4 48 52.20					30	2.6	136.0	24	30	23.60	22.74	0.86
. 23	SGV	EPD3	4 48 52.90					29	2.5	141.1	291	30	24.30	23.39	0.90
. 23	GVN	EPD	4 48 56.01					27	2.6	167.9	288	30	27.41	26.88	0.53

NOV H = 12 13 22.72 UTC RMS = 0.11 NO = 11 FREE DEPTH SOLUTION  
 . 23 LAT = 36.537 N ERX = 0.4 ERH = 0.6 AVFM = 2.2 Q = C  
 . LONG = 115.544 W ERY = 0.5 GAP = 90 AVXM = QS = B MERCURY  
 . DEPTH = 8.75 KM ERZ = 2.4 NM = QD = C

. 23	APK	EPD	12 13 27.17					19	1.8	24.3	186	107	4.45	4.48	-0.03
. 23	SPRG	EPD	12 13 28.05					19	1.8	29.4	306	104	5.33	5.27	0.05
. 23	SHRG	EPD	12 13 28.92					14	1.5	35.1	96	102	6.20	6.17	0.07
. 23	MCY	IPU	12 13 29.42					40	2.5	39.8	290	100	6.70	6.93	-0.24
. 23	JON	EPD	12 13 31.41					34	2.4	51.2	258	98	8.69	8.76	-0.07
. 23	CPX	EPD	12 13 33.75					17	1.8	63.2	313	96	11.03	10.70	0.33
. 23	LDP	EPD	12 13 34.00					34	2.4	65.9	302	96	11.28	11.12	0.15
. 23	LSM	IPU	12 13 34.96					32	2.4	68.8	289	96	12.24	11.60	0.63
. 23	SDH	EPD	12 13 34.94					26	2.2	72.0	280	96	12.22	12.12	0.09
. 23	BGB	EPD3	12 13 37.35					23	2.1	82.5	312	95	14.63	13.81	0.86
. 23	PRN	EPD	12 13 40.24					30	2.5	106.1	25	94	17.52	17.64	-0.13
. 23	8MT	EPD	12 13 43.11					38	2.7	121.0	313	53	20.39	19.77	0.21
. 23	SGV	EPD4	12 13 47.00					33	2.7	141.6	290	53	24.28	22.46	1.82

NOV H = 15 15 28.22 UTC RMS = 0.05 NO = 6 FREE DEPTH SOLUTION  
 . 23 LAT = 36.561 N ERX = 0.3 ERH = 0.6 AVFM = 1.8 Q = C  
 . LONG = 115.510 W ERY = 0.5 GAP = 162 AVXM = QS = C MERCURY  
 . DEPTH = 4.83 KM ERZ = 11.9 NM = QD = C

. 23	APK	EPD	15 15 33.07					18	1.7	27.4	192	97	4.85	4.84	0.01
. 23	SPRG	EPD	15 15 33.60					18	1.7	30.6	299	96	5.38	5.36	0.02
. 23	SHRG	EPD	15 15 33.80					15	1.6	32.4	101	96	5.58	5.64	-0.01
. 23	MCY	IPU	15 15 35.33					35	2.4	42.0	285	94	7.11	7.20	-0.10
. 23	JON	EPD4	15 15 38.35					26	2.2	54.8	256	93	10.13	9.29	0.84
. 23	CPX	EPD4	15 15 39.75					5	0.8	63.8	310	93	11.53	10.74	0.78
. 23	LDP	EPD2	15 15 40.00					29	2.3	67.2	299	93	11.78	11.29	0.48
. 23	SDH	EPD	15 15 40.85					23	2.1	74.7	277	92	12.63	12.52	0.11
. 23	PRN	EPD4	15 15 48.52					21	2.1	102.4	24	92	20.30	17.02	3.27
. 23	SGV	EPD4	15 15 52.90					7	1.3	143.7	289	53	24.68	23.11	1.57

NOV H = 0 38 31.11 UTC RMS = 0.12 NO = 7 FREE DEPTH SOLUTION  
 . 25 LAT = 36.676 N ERX = 0.3 ERH = 0.6 AVFM = 2.3 Q = C  
 . LONG = 115.557 W ERY = 0.5 GAP = 150 AVXM = QS = B MERCURY  
 . DEPTH = 7.35 KM ERZ = 4.0 NM = QD = C

. 25	SPRG	EPD	0 38 35.45					35	2.3	22.6	275	105	4.34	4.15	0.20
. 25	MCY	EPD0	0 38 37.35					37	2.4	36.2	267	99	6.24	6.31	-0.07
. 25	SHRG	EPD	0 38 38.05					53	2.7	40.7	118	98	6.94	7.04	-0.05
. 25	CPX	EPD	0 38 40.00					26	2.1	52.8	302	96	8.89	8.98	-0.09
. 25	CPX	EPD	0 38 40.00					26	2.1	52.8	302	96	8.89	8.98	-0.09
. 25	LDP	EPD4	0 38 39.43					22	2.0	57.9	290	96	8.32	9.82	-1.49
. 25	LSM	EPD4	0 38 42.75					44	2.6	64.2	276	95	11.64	10.84	0.81
. 25	BGB	EPD	0 38 42.95					27	2.2	72.0	304	95	11.84	12.09	-0.20
. 25	NCP	EPD4	0 38 46.09					25	2.2	80.9	221	94	14.98	13.55	1.43
. 25	EPN	EPD4	0 38 42.21					22	2.1	90.7	311	94	11.10	15.13	-4.03
. 25	MTI	EPD	0 38 49.96					27	2.4	113.9	13	93	18.85	18.89	0.16
. 25	MGM	EPD4	0 38 57.84					14	2.1	192.1	296	53	26.73	29.15	-2.42

NOV H = 4 7 5.81 UTC RMS = 0.10 NO = 6 FREE DEPTH SOLUTION  
 . 26 LAT = 37.095 N ERX = 0.4 ERH = 0.5 AVFM = 1.9 Q = C  
 . LONG = 117.331 W ERY = 0.4 GAP = 120 AVXM = QS = C MT. JACKSON  
 . DEPTH = 2.57 KM ERZ = 8.4 NM = QD = C

. 26	GVN	EPD	4 7 7.77					24	1.9	10.4	185	95	1.96	2.05	-0.09
. 26	GMM	EPD	4 7 10.00					11	1.3	23.6	16	92	4.19	4.20	-0.01
. 26	SGV	EPD	4 7 11.05					25	2.0	29.5	115	92	5.24	5.15	0.10
. 26	LCH	EPD4	4 7 12.27					12	1.4	32.1	299	92	6.46	5.57	0.89
. 26	MGM	EPD	4 7 12.76					12	1.4	41.1	339	91	6.95	7.05	-0.09
. 26	PPK	EPD	4 7 16.51					15	1.7	62.9	306	90	10.70	10.58	0.12
. 26	CTS	EPD4	4 7 20.11					14	1.7	80.8	42	90	14.30	13.50	0.81
. 26	LSM	EPD2	4 7 23.42					25	2.3	102.4	113	90	17.61	17.00	0.62
. 26	MCY	EPD4	4 7 28.12					26	2.4	131.2	112	90	22.31	21.68	0.63
. 26	SPRG	EPD4	4 7 30.55					27	2.5	142.8	108	53	24.74	23.21	1.53

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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	H = 11	12 45.06	UTC	RMS =	0.07	NO =	5								FIXED DEPTH SOLUTION
26	LAT =	36.158 N		ERX =	2.3	ERH =	5.7	AVFM =	2.4	Q =	D				DEPTH CONTROL INADEQUATE
	LONG =	117.505 W		ERY =	5.3	GAP =	285	AVXM =		QS =	D				DARWIN
	DEPTH =	5.00 KM		ERZ =	3.4	NM =				QD =	D				
.....															
26	SGV	EPD	11 13 1.80					38 2.6	100.7	25	92	16.74	16.74	0.01	
26	LCH	EPD	11 13 4.95					35 2.6	120.2	354	92	19.89	19.91	-0.02	
26	GMN	EPD4	11 13 7.21					8 1.4	128.6	10	53	22.15	21.14	1.02	
26	BMT	EPD	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 10.65					42 2.9	163.3	69	53	25.59	25.64	-0.04	
26	SHRG	EPD4	11 13 10.49					12 2.0	214.5	80	53	33.43	32.29	1.20	
.....															
NOV	H = 11	24 33.94	UTC	RMS =	0.12	NO =	5								FIXED DEPTH SOLUTION
26	LAT =	37.514 N		ERX =	2.6	ERH =	3.3	AVFM =	1.9	Q =	D				DEPTH CONTROL INADEQUATE
	LONG =	116.343 W		ERY =	1.9	GAP =	175	AVXM =		QS =	C				QUARTZITE MOUNTAIN
	DEPTH =	5.00 KM		ERZ =	43.0	NM =				QD =	D				
.....															
26	BLT	EPD	11 24 37.45					14 1.5	19.3	108	100	3.51	3.54	-0.03	
26	KRNA	EPD4	11 24 39.35					15 1.6	26.4	353	97	5.41	4.69	0.72	
26	BMT	EPD0	11 24 39.53					30 2.2	30.6	213	96	5.59	5.36	-0.17	
26	EPN	EPD2	11 24 40.00					30 2.2	33.3	177	96	6.06	5.79	0.27	
26	CTS	EPD	11 24 40.32					12 1.4	36.6	293	95	6.38	6.33	0.05	
26	SGV	EPD0	11 24 48.03					30 2.4	85.1	226	92	14.09	14.20	-0.11	
26	SPRG	EPD4	11 24 51.52					26 2.3	102.6	152	92	17.58	17.05	0.53	
.....															
NOV	H = 10	15 13.36	UTC	RMS =	0.25	NO =	8								FREE DEPTH SOLUTION
27	LAT =	36.438 N		ERX =	1.0	ERH =	3.6	AVFM =	2.0	Q =	C				CHARLESTON PEAK
	LONG =	115.562 W		ERY =	3.4	GAP =	116	AVXM =		QS =	C				
	DEPTH =	4.49 KM		ERZ =	28.9	NM =				QD =	C				
.....															
27	APK	EPD	10 15 15.93					24 1.9	13.1	185	103	2.57	2.54	0.03	
27	SPRG	EPD	10 15 19.21					22 1.9	36.1	322	95	5.85	6.24	-0.39	
27	SHRG	EPD	10 15 19.75					27 2.1	37.2	78	94	6.39	6.41	0.03	
27	MCY	EPD	10 15 20.76					27 2.1	43.7	305	94	7.40	7.47	-0.07	
27	JON	EPD	10 15 21.20					20 1.9	48.6	270	93	7.84	8.26	-0.43	
27	CPX	EPD	10 15 25.32					14 1.7	70.3	321	92	11.96	11.80	0.16	
27	LOP	EPD	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	298	92	13.07	12.04	1.03	
27	SDH	EPD	10 15 26.28					17 1.8	73.3	288	92	12.92	12.28	0.63	
27	SSP	EPD4	10 15 28.22					23 2.1	79.8	313	92	14.86	13.35	1.51	
27	SGV	EPD4	10 15 38.29					32 2.6	144.6	295	53	24.93	23.26	1.67	
.....															
NOV	H = 22	2 2.34	UTC	RMS =	0.00	NO =	4								FREE DEPTH SOLUTION
27	LAT =	36.871 N		ERX =		ERH =		AVFM =	1.6	Q =	C				
	LONG =	116.245 W		ERY =		GAP =	216	AVXM =		QS =	A				LATHROP WELLS
	DEPTH =	6.31 KM		ERZ =		NM =				QD =	D				
.....															
27	SSP	IPD	22 2 4.02					16 1.6	6.4	21	130	1.68	1.68	0.00	
27	LOP	IPD	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	EPD	22 2 10.78					9 1.2	49.5	165	95	8.44	8.44	-0.00	
.....															
NOV	H = 11	8 20.10	UTC	RMS =	0.19	NO =	6								FREE DEPTH SOLUTION
28	LAT =	36.856 N		ERX =	3.1	ERH =	3.5	AVFM =	1.6	Q =	D				
	LONG =	115.936 W		ERY =	1.7	GAP =	227	AVXM =		QS =	C				MERCURY
	DEPTH =	1.07 KM		ERZ =	314.2	NM =				QD =	D				
.....															
28	LOP	EPD	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	287	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	EPD	11 8 28.60					10 1.3	48.5	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	H = 4	56 53.57	UTC	RMS =	0.03	NO =	5								FREE DEPTH SOLUTION
29	LAT =	36.760 N		ERX =	0.4	ERH =	0.5	AVFM =	1.6	Q =	C				
	LONG =	116.275 W		ERY =	0.3	GAP =	198	AVXM =		QS =	A				LATHROP WELLS
	DEPTH =	3.50 KM		ERZ =	0.7	NM =				QD =	D				
.....															
29	LSM	IPD	4 56 54.45					25 1.9	2.4	176	138	0.88	0.88	0.00	
29	SDH	EPD	4 56 56.20					11 1.3	14.0	204	98	2.63	2.65	-0.01	
29	LOP	EPD	4 56 56.25					18 1.7	14.1	42	98	2.68	2.66	0.02	

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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
. 29	MCY	EPU	4 56 58.75					15	1.6	29.9	111	94	5.18	5.22	-0.04
. 29	JON	EPD	4 57 0.26					12	1.4	38.7	157	93	6.69	6.65	0.04
.....															
NOV H = 5 21 31.05 UTC RMS = 0.05 NO = 3															
. 29 LAT = 36.868 N ERX = ERH = AVFM = 0.9 Q = C															
. LONG = 115.786 W ERY = GAP = 307 AVXM = Q3 = A															
. DEPTH = 5.00 KM ERZ = NM = QD = D															
FIXED DEPTH SOLUTION															
DEPTH CONTROL INADEQUATE															
MERCURY															
.....															
. 29	MCY	EPU	5 21 35.93					9	1.1	27.8	214	97	4.88	4.91	-0.03
. 29	LCP	EPD	5 21 36.94					6	0.8	34.1	267	96	5.89	5.92	-0.02
. 29	LSM	EPU	5 21 38.93					6	0.8	45.7	252	94	7.88	7.80	0.08
.....															
NOV H = 9 17 14.53 UTC RMS = 0.00 NO = 4															
. 29 LAT = 36.708 N ERX = ERH = AVFM = 1.2 Q = C															
. LONG = 116.273 W ERY = GAP = 143 AVXM = Q3 = A															
. DEPTH = 9.35 KM ERZ = NM = QD = D															
FREE DEPTH SOLUTION															
LATHROP WELLS															
.....															
. 29	LSM	EPD	9 17 16.32					12	1.3	3.4	2	158	1.79	1.80	-0.00
. 29	SDH	EPD	9 17 16.85					7	0.9	9.0	220	133	2.32	2.32	0.00
. 29	LCP	EPU	9 17 18.19					9	1.1	18.8	30	113	3.66	3.66	0.00
. 29	MCY	EPU	9 17 19.65					12	1.4	28.3	101	106	5.12	5.13	-0.00
.....															
NOV H = 6 0 56.01 UTC RMS = 0.65 NO = 7															
. 30 LAT = 36.240 N ERX = 23.8 ERH = 27.5 AVFM = 2.1 Q = D															
. LONG = 116.476 W ERY = 13.8 GAP = 247 AVXM = Q3 = D															
. DEPTH = 8.94 KM ERZ = 36.3 NM = QD = D															
FREE DEPTH SOLUTION															
ASH MEADOWS															
.....															
. 30	AMR	EPU	6 0 59.35					34	2.3	17.5	0	114	3.34	3.44	-0.10
. 30	NOP	EPU	6 1 1.35					34	2.3	31.6	113	103	5.34	5.63	-0.29
. 30	SDH	EPU	6 1 4.96					39	2.5	46.6	15	99	8.95	8.03	0.93
. 30	LSM	EPD	6 1 6.76					12	1.5	58.3	18	97	10.75	9.90	0.85
. 30	BRO	EPU4	6 1 2.83					30	2.3	59.5	347	97	6.82	10.10	-3.28
. 30	MCY	EPU	6 1 7.05					25	2.2	65.6	45	96	11.04	11.08	-0.04
. 30	LCP	EPU	6 1 7.12					10	1.4	73.5	22	96	11.11	12.36	-1.25
. 30	BGB	EPU	6 1 10.86					27	2.3	91.2	14	95	14.85	15.24	-0.33
. 30	SGV	EPU4	6 1 2.80					37	2.6	96.1	329	94	6.79	16.03	-9.23
.....															
DEC H = 23 16 11.90 UTC RMS = 0.12 NO = 16															
. 01 LAT = 36.670 N ERX = 0.6 ERH = 0.8 AVFM = 2.5 Q = C															
. LONG = 115.326 W ERY = 0.6 GAP = 123 AVXM = Q3 = C															
. DEPTH = 3.07 KM ERZ = 22.4 NM = QD = C															
FREE DEPTH SOLUTION															
HAYFORD PEAK															
.....															
. 01	SPRG	IPU	23 16 16.08					30	2.2	23.9	140	93	4.18	4.24	-0.01
. 01	SPRG	EPD	23 16 19.36					40	2.5	43.3	274	92	7.46	7.40	0.06
. 01	APK	EPU	23 16 19.65					31	2.3	44.8	210	92	7.75	7.65	0.10
. 01	EPR	EPD4	23 16 19.84					53	2.8	56.7	13	91	7.94	9.58	-1.64
. 01	MCY	EPU	23 16 21.80					39	2.5	56.9	269	91	9.90	9.61	0.29
. 01	JON	EPD	23 16 24.15					31	2.4	74.1	250	90	12.25	12.40	-0.15
. 01	LCP	EPU	23 16 25.00					36	2.5	77.9	285	90	13.10	13.01	0.09
. 01	SSP	EPD	23 16 26.03					38	2.6	84.6	290	90	14.13	14.10	0.03
. 01	LSM	EPU	23 16 25.85					31	2.4	84.9	275	90	13.95	14.16	-0.21
. 01	GLR	EPD	23 16 26.05					45	2.7	85.2	314	90	14.15	14.20	0.10
. 01	PRN	EPU	23 16 26.13					49	2.8	85.4	17	90	14.23	14.24	-0.01
. 01	BGB	EPD	23 16 27.03					42	2.7	90.2	297	90	15.13	15.01	0.17
. 01	ESU4		23 16 37.63										25.73	26.18	-0.45
. 01	SDH	EPD	23 16 27.25					27	2.3	90.5	268	90	15.35	15.07	0.28
. 01	CDH1	EPD4	23 16 27.79					40	2.7	91.0	283	90	15.89	15.15	0.74
. 01	ESU		23 16 38.10										26.20	26.51	-0.31
. 01	CDH5	EPU	23 16 27.20					18	2.0	91.0	283	90	15.30	15.15	0.15
. 01	ESU4		23 16 37.05										25.15	26.51	-1.36
. 01	NPN	EPU2	23 16 31.36					39	2.7	114.4	18	90	19.46	18.95	0.51
. 01	ESU		23 16 44.90										33.00	33.16	-0.16
. 01	DLM	EPU4	23 16 31.85					25	2.3	116.2	27	90	19.95	19.25	0.70
.....															
DEC H = 6 31 2.93 UTC RMS = 0.09 NO = 5															
. 02 LAT = 36.774 N ERX = 1.1 ERH = 1.9 AVFM = 1.8 Q = D															
. LONG = 115.906 W ERY = 1.5 GAP = 205 AVXM = Q3 = C															
. DEPTH = 3.91 KM ERZ = 19.1 NM = QD = D															
FREE DEPTH SOLUTION															
MERCURY															
.....															
. 02	SPRG	EPU	6 31 5.38					22	1.9	12.4	136	101	2.45	2.40	0.05
. 02	MCY	IPD	6 31 5.38					27	2.0	13.4	202	100	2.45	2.56	-0.11
. 02	LCP	EPU	6 31 7.31					22	1.9	25.0	291	95	4.38	4.43	-0.05
. 02	LSM	EPD4	6 31 7.34					18	1.8	32.8	263	94	4.41	5.71	-1.30
. 02	SDH	EPU	6 31 10.03					12	1.4	41.1	250	93	7.10	7.05	0.05

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	ESU		6 31 15.40									12.47	12.34	0.13	
.....															
DEC H = 0 40 35.65 UTC				RMS =	0.23	NO =	11					FREE DEPTH SOLUTION			
04 LAT = 38.289 N				ERX =	2.2	ERH =	4.2	AVFM =	3.0	Q =	D				
LONG = 117.196 W				ERY =	3.6	GAP =	244	AVXM =		QS =	C	TONOPAH			
DEPTH = 6.39 KM				ERZ =	3.3	NM =				QD =	D				
.....															
04	MZP	EPD	0 40 46.46					34 2.4	67.3	194	94	10.81	11.33	-0.33	
04	SVP	EPD	0 40 49.75					40 2.6	83.0	220	93	14.10	13.86	0.09	
04	GMN	EPD	0 40 54.25					46 2.8	109.9	183	92	18.60	18.24	0.36	
04	SGV	EPD	0 40 58.86					45 2.9	145.9	174	53	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	GLR	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	CDH1	EPD	0 41 2.60					43 3.0	176.5	154	53	26.95	27.22	-0.27	
04	MTI	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	104	53	29.41	29.24	0.17	
04	NPN	EPD	0 41 7.10					57 3.4	210.6	110	53	31.45	31.65	-0.20	
.....															
DEC H = 6 46 35.11 UTC				RMS =	0.09	NO =	10					FREE DEPTH SOLUTION			
06 LAT = 37.374 N				ERX =	0.5	ERH =	0.6	AVFM =	2.6	Q =	B				
LONG = 115.127 W				ERY =	0.3	GAP =	119	AVXM =		QS =	A	ALAMO			
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					60 2.8	23.4	193	99	4.11	4.20	-0.09	
06	NPN	EPD	6 46 41.10					38 2.4	35.2	29	96	5.99	6.10	-0.11	
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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
06	MTI	EPD	6 46 41.12					33 2.3	35.9	339	96	6.01	6.22	-0.01	
06	DLM	EPD	6 46 42.50					27 2.1	42.9	53	95	7.39	7.35	0.04	
06	TPU	EPD	6 46 44.07					31 2.3	52.8	299	94	8.96	8.95	0.01	
06	SHRG	EPD	6 46 51.20					37 2.6	96.6	181	92	16.09	16.07	0.07	
	ESD4		6 47 6.19									31.08	28.03	3.05	
06	SPRG	EPD	6 46 51.17					41 2.7	96.9	219	92	16.06	16.12	-0.06	
06	EPN	EPD	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	LDP	EPD	6 46 54.67					42 2.8	109.0	238	92	19.56	18.09	1.47	
06	SSP	EPD	6 46 54.40					43 2.8	109.1	243	92	19.29	18.10	1.19	
06	KRNA	EPD	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 H = 20 5 13.69 UTC				RMS =	0.02	NO =	3					FIXED DEPTH SOLUTION			
08 LAT = 36.794 N				ERX =		ERH =		AVFM =	1.5	Q =	C	DEPTH CONTROL INADEQUATE			
LONG = 115.480 W				ERY =		GAP =	157	AVXM =		QS =	A	HAYFORD PEAK			
DEPTH = 5.00 KM				ERZ =		NM =				QD =	D				
.....															
08	EPR	EPD	20 5 22.03					16 1.7	49.1	32	94	8.34	8.36	-0.02	
08	APK	EPD	20 5 22.72					10 1.3	53.3	189	94	9.03	9.04	-0.01	
08	CPX	EPD	20 5 22.81					12 1.5	53.6	286	94	9.12	9.09	0.03	
.....															
DEC H = 19 34 47.37 UTC				RMS =	0.28	NO =	12					FREE DEPTH SOLUTION			
10 LAT = 38.214 N				ERX =	1.8	ERH =	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 3.00					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	GMN	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	LCH	EPD	19 35 6.93						114.6	198	38	19.56	19.32	0.24	
10	BMT	EPD	19 35 7.82					42 2.8	120.4	149	38	20.45	20.26	-0.21	
10	QCS	EPD	19 35 8.95					28 2.5	126.0	113	38	21.58	21.17	0.41	
10	BLT	EPD	19 35 9.05					42 2.8	127.9	131	38	21.68	21.49	0.19	
10	GVN	IPD	19 35 10.61					32 2.6	134.9	184	38	23.24	22.62	0.62	
10	SGV	EPD	19 35 10.82					35 2.7	138.0	173	30	24.45	23.04	0.41	
10	TPU	EPD	19 35 12.44					39 2.9	155.0	116	30	25.07	25.25	-0.18	
	ESU4		19 35 33.11									45.74	44.19	1.55	
10	BRO	EPD	19 35 15.81					30 2.7	169.8	161	30	28.44	27.18	1.26	
10	MTI	EPD	19 35 15.69					37 2.9	182.6	109	30	28.32	28.84	-0.31	
10	NPN	EPD	19 35 19.44					46 3.2	211.5	107	30	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
.....															
DEC H = 21			44 33.13	UTC	RMS =	0.19	NO =	6	FREE DEPTH SOLUTION						
10 LAT =			36.692	N	ERX =	6.5	ERH =	9.3	AVFM =	3.0	Q =	D			
LONG =			114.609	W	ERY =	6.7	GAP =	291	AVXM =		QS =	D	MOAPA		
DEPTH =			8.97	KM	ERZ =	3.0	NM =				QD =	D			
.....															
10	PRN	EPU	21 44 48.13					63 3.0	88.5	334	95	15.00	14.80	0.20	
10	DLM	EPU	21 44 49.78					60 3.0	102.1	354	94	16.65	17.00	-0.35	
10	NPN	IPU	21 44 51.75					56 3.0	110.5	345	94	18.62	18.37	0.25	
10	TPU	EPD	21 44 55.00					45 2.9	137.2	318	53	21.87	21.86	0.01	
10	SRG	EPU	21 44 55.12					65 3.2	138.2	343	53	21.99	21.99	-0.01	
10	BGB	EPU	21 44 56.39					43 2.9	149.3	285	53	23.26	23.43	-0.12	
.....															
DEC H = 0			21 40.52	UTC	RMS =	0.21	NO =	21	FREE DEPTH SOLUTION						
14 LAT =			37.385	N	ERX =	0.4	ERH =	0.6	AVFM =	2.2	Q =	C			
LONG =			116.059	W	ERY =	0.4	GAP =	72	AVXM =		QS =	B	SILENT CANYON - NORTH		
DEPTH =			1.68	KM	ERZ =	1.1	NM =				QD =	C			
.....															
14	BLT	EPU	0 21 42.52				24	1.9	10.8	322	38	2.00	2.11	-0.12	
14	GLR	IPD	0 21 44.08				26	2.0	20.9	170	38	3.56	3.76	-0.06	
14	EPN	EPD	0 21 45.90				31	2.2	30.2	231	38	5.38	5.26	0.11	
14	BGB	EPU4	0 21 46.74				34	2.3	41.3	201	38	6.22	7.08	-0.81	
		ESD4	0 21 50.48									9.96	12.30	-2.35	

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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	BMT	EPD4	0 21 49.51					39 2.5	43.6	255	38	8.99	7.44	1.15	.
.		ISD4	0 21 56.59									16.07	13.72	2.35	.
. 14	TPU	EPD	0 21 47.71					22 2.0	43.7	56	38	7.19	7.46	-0.28	.
. 14	QCS	EPU	0 21 48.21					16 1.7	44.3	17	38	7.69	7.56	0.12	.
. 14	KRNA	EPU	0 21 48.94					20 1.9	49.5	325	38	8.42	8.40	0.02	.
. 14	CPX	EPD	0 21 48.62					22 2.0	50.6	180	38	8.10	8.59	-0.50	.
.		ESU	0 21 54.79									14.27	15.03	-0.77	.
. 14	LOP	EPU	0 21 50.52					28 2.2	59.7	189	38	10.00	10.06	-0.07	.
. 14	RVE	EPD	0 21 52.47					15 1.7	71.4	351	38	11.95	11.97	-0.02	.
. 14	SPRG	EPD	0 21 53.89					34 2.5	79.9	164	38	13.37	13.34	0.02	.
. 14	MCY	EPU	0 21 54.11					30 2.4	80.7	174	38	13.59	13.49	0.10	.
. 14	EPR	EPU2	0 21 54.71					34 2.5	81.0	107	38	14.19	13.53	0.66	.
. 14	PRN	IPU	0 21 55.82					39 2.6	89.4	88	38	15.30	14.89	0.40	.
.		ISD	0 22 6.51									25.99	26.06	-0.08	.
. 14	SGV	EPD	0 21 56.87					33 2.5	97.3	243	38	16.35	16.18	0.16	.
. 14	NPN	EPU	0 21 57.83					28 2.4	103.6	73	38	17.31	17.20	0.11	.
. 14	JON	EPU	0 21 59.08					20 2.1	105.0	182	38	18.56	17.43	1.13	.
. 14	GVN	EPU	0 22 0.70					38 2.7	121.6	250	38	20.18	20.13	0.04	.
.		ESU	0 22 15.75									35.23	35.23	-0.01	.
. 14	SHRG	EPD	0 22 2.29					29 2.5	126.7	140	38	21.77	20.95	0.86	.
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14	TPU	EPU	6 6 16.80					32	2.5	111.9	60	91	18.59	18.57	0.02
		ESU	6 6 30.45										32.24	32.50	-0.26
14	QSM	EPU	6 6 20.21					28	2.5	127.1	185	53	22.00	20.99	1.01
		ESU	6 6 34.85										36.64	36.74	-0.09
14	PRN	EPU	6 6 23.84					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	ERX = 1.0	ERH = 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									
14	AMR	EPU	11 12 58.28					38	2.4	18.8	141	106	3.19	3.52	-0.33
14	BRD	EPU	11 12 59.00					19	1.8	26.0	356	101	3.91	4.66	-0.76
14	SDH	EPD	11 12 59.83					32	2.2	27.3	62	101	4.74	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	189	98	6.73	6.65	-0.02
14	CDH1	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

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	LOP	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	NCP	EPD	11 13 5.00					29	2.3	60.3	137	95	9.91	10.19	-0.29
14	QSM	EPU	11 13 6.66					17	1.8	66.8	201	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	ERX = 0.1	ERH = 0.2	AVFM = 2.6	Q = B									
	LONG = 115.409	W	ERY = 0.1	GAP = 108	AVXM =	QS = A									HAYFORD PEAK
	DEPTH = 0.42	KM	ERZ = 0.5	NM =		QD = C									
15	SHRG	EPU	2 34 51.44					29	2.1	26.7	122	38	4.90	4.96	-0.00
15	SPRG	IPU	2 34 53.10					41	2.5	36.5	281	38	6.56	6.55	0.02
15	EPR	IPU	2 34 57.41					41	2.6	62.9	18	38	10.87	10.84	0.04
15	JCN	EPD	2 34 57.80					42	2.6	65.7	251	38	11.26	11.30	-0.04
15	LOP	EPU	2 34 58.90					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	SDH	EPU	2 35 0.65					35	2.5	83.2	271	38	14.11	14.14	-0.03
15	GLR	EPU	2 35 0.46					33	2.5	83.2	319	38	13.92	14.15	-0.07
15	CDH1	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	87.0	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
		ESU4	2 35 18.69										32.15	36.22	-4.06
15	SGV	EPD	2 35 11.31					38	2.8	150.0	285	30	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	30	24.68	24.68	0.00
15	GVN	EPU	2 35 14.60					38	2.9	177.4	283	30	28.06	28.09	-0.02
		ESU4	2 35 36.73										50.19	49.15	1.04
15	GVN	IPU	2 35 15.23					30	2.7	180.7	294	30	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	ERX =	ERH =	AVFM = 2.1	Q = C									DEPTH CONTROL INADEQUATE
	LONG = 115.824	W	ERY =	GAP = 307	AVXM =	QS = A									GROOM LAKE
	DEPTH = 5.00	KM	ERZ =	NM =		QD = D									
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 49.50					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	ERX =	ERH =	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									
17	SSP	IPU	7 28 53.82					33	2.2	11.5	163	112	2.35	2.36	-0.00
17	LOP	EPD	7 28 55.10					30	2.2	19.7	169	103	3.63	3.63	0.00



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17	EPN	EPD	7 28 55.61					42 2.5	22.9	334	101	4.14	4.14	0.00	
17	LSM	EPD	7 28 57.16					32 2.3	32.6	190	98	5.69	5.70	-0.00	
.....															
DEC H = 15	23 52.35	UTC	RMS = 0.42	NO = 25											FREE DEPTH SOLUTION
17 LAT =	37.329 N		ERX = 0.8	ERH = 1.1				AVFM = 3.4		Q = C					
LONG =	116.290 W		ERY = 0.7	GAP = 43				AVXM =		QS = C					SILENT CANYON - NORTH
DEPTH =	0.79 KM		ERZ = 3.6	NM =						QD = C					
.....															
17	BLT	EPD	15 23 56.15					150 3.6	20.1	43	38	3.80	3.81	-0.01	
17	BMT	EPD	15 23 57.45					113 3.3	22.2	257	38	5.10	4.15	0.55	
17	GLR	EPD	15 23 57.18					77 3.0	28.1	121	38	4.83	5.11	-0.13	
17	BGB	IPD	15 23 57.69					113 3.4	32.8	170	38	5.34	5.87	-0.48	
17	SSP	IPU	15 23 59.82					150 3.6	45.3	172	38	7.47	7.90	-0.43	
17	KRNA	EPD	15 24 0.30					150 3.6	47.4	350	38	7.95	8.25	-0.30	
17	CTS	EPD	15 24 1.00					150 3.7	51.7	312	38	8.65	8.96	-0.31	
17	CDH5	EPD	15 24 1.09					40 2.5	52.0	183	38	8.74	9.00	-0.26	
	ISD		15 24 8.54									16.19	15.75	0.44	
17	LOP	EPD	15 24 0.90					120 3.5	53.8	168	38	8.55	9.29	-0.74	
17	QCS	EPD	15 24 2.48					110 3.4	58.9	34	38	10.13	10.11	0.01	
17	TPU	IPU	15 24 3.39					77 3.1	64.4	62	38	11.04	11.02	0.02	
17	BRO	IPU	15 24 3.96					79 3.2	69.6	205	38	11.61	11.85	-0.24	
17	SDH	EPD	15 24 4.78					120 3.6	75.9	183	38	12.43	12.89	-0.46	
17	SGV	IPU	15 24 5.09					116 3.5	76.4	240	38	12.74	12.96	-0.22	
17	RVE	EPD	15 24 5.27						77.2	6	38	12.92	13.09	-0.17	
17	SPRG	IPD	15 24 6.61					114 3.5	82.4	149	38	14.26	13.94	0.32	
17	AMR	EPD	15 24 10.13					120 3.7	104.6	189	38	17.78	17.55	0.23	
17	MZP	EPD	15 24 9.69					45 2.8	105.1	293	38	17.34	17.63	-0.10	
17	SRG	IPD	15 24 14.21					96 3.5	124.2	60	38	21.86	20.73	1.13	
17	NPN	EPD	15 24 14.45					93 3.5	124.9	73	38	22.10	20.85	1.25	
17	NOP	EPD	15 24 15.04					120 3.8	133.8	175	38	22.69	22.30	0.39	
17	SMRG	IPU	15 24 16.01					64 3.2	136.4	132	30	23.66	22.67	1.04	
17	DLM	EPD	15 24 16.41					59 3.2	140.6	77	30	24.06	23.22	0.84	
17	PPK	IPU	15 24 16.58					84 3.5	143.6	274	30	24.23	23.61	0.62	
	ESD4		15 24 36.49									44.14	41.32	2.82	
17	GSM	EPD4	15 24 16.58					76 3.5	159.9	199	30	24.23	25.73	-1.50	
	ISU4		15 24 19.98									27.63	45.02	-17.39	
.....															
DEC H = 15	25 45.47	UTC	RMS = 0.21	NO = 20											FREE DEPTH SOLUTION
17 LAT =	37.348 N		ERX = 0.5	ERH = 0.7				AVFM = 3.4		Q = C					
LONG =	116.330 W		ERY = 0.4	GAP = 44				AVXM =		QS = B					SILENT CANYON - NORTH
DEPTH =	2.21 KM		ERZ = 2.2	NM =						QD = C					
.....															
17	BLT	EPD	15 25 49.27					131 3.4	21.4	54	91	3.80	3.83	-0.03	
17	GLR	IPD2	15 25 50.00					119 3.4	32.3	121	90	4.53	5.60	-0.92	
17	KRNA	IPD	15 25 53.21					120 3.4	44.8	354	90	7.74	7.64	0.10	
17	CTS	EPD	15 25 53.68					118 3.4	47.7	313	90	8.21	8.10	0.11	
17	CPX	EPD	15 25 54.30					86 3.2	52.4	153	90	8.83	8.88	-0.05	
17	CDH5	EPD	15 25 54.72					36 2.4	54.1	179	90	9.25	9.16	0.09	
17	QCS	EPD	15 25 55.47					112 3.4	59.2	38	90	10.00	9.98	0.02	
17	SGV	IPU	15 25 58.09					97 3.4	74.5	237	90	12.62	12.46	0.16	
17	RVE	EPD	15 25 58.15					110 3.5	75.5	9	90	12.68	12.63	0.04	
17	SDH	EPD	15 25 58.47					120 3.6	78.0	181	90	13.00	13.03	-0.03	
17	GMN	EPD	15 25 59.39					61 3.0	82.6	266	90	13.92	13.78	0.14	
	IS03		15 26 7.53									22.06	24.11	-2.06	
17	MTI	EPD	15 26 1.91					50 2.9	100.4	69	90	16.44	16.67	-0.04	
17	MZP	EPD	15 26 1.51					44 2.8	101.0	293	90	16.04	16.77	-0.54	
17	JON	EPD	15 26 2.54					117 3.6	102.8	169	90	17.07	17.07	-0.00	
17	AMR	EPD	15 26 3.11					115 3.6	106.3	187	90	17.64	17.63	0.01	
17	NPN	EPD	15 26 6.52					103 3.6	127.8	75	90	21.05	21.13	-0.08	
17	GWV	IPU	15 26 7.21					120 3.8	132.4	193	90	21.74	21.88	-0.25	
17	APK	EPD4	15 26 8.11					105 3.6	132.6	149	90	22.64	21.91	0.73	
17	NOP	EPD	15 26 7.71					121 3.8	136.3	173	53	22.24	22.41	-0.17	
17	SMRG	EPD	15 26 8.41					69 3.3	140.5	132	53	22.94	22.95	0.04	
	ISU4		15 26 16.42									30.95	40.07	-9.12	
17	DLM	IPU	15 26 9.21					77 3.4	143.6	79	53	23.74	23.35	0.39	
.....															
H = 15	51 31.42	UTC	RMS = 0.52	NO = 24											FREE DEPTH SOLUTION
17 LAT =	37.544 N		ERX = 0.7	ERH = 0.9				AVFM = 3.8		Q = C					
LONG =	116.534 W		ERY = 0.6	GAP = 47				AVXM =		QS = C					SILENT CANYON - NORTH
DEPTH =	2.55 KM		ERZ = 2.3	NM =						QD = C					
.....															
17	BLT	EPD	15 51 33.35					19.0	249	43		5.43	3.44	0.09	
17	BLT	EPD	15 51 35.40					21.9	54	92		5.98	3.91	0.07	
17	BLT	EPD	15 51 36.80					45.2	355	90		7.38	7.70	-0.32	
17	SSP	EPD	15 51 40.00					47.6	160	90		8.58	8.10	0.48	

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17	CTG	EPD	15 51 39.20						47.7	513	90	7.79	8.11	-0.33	
17	CPX	EPD	15 51 40.05						52.2	152	90	8.63	8.84	-0.21	
17	LCP	EPD	15 51 40.85						56.4	165	90	9.43	9.52	-0.09	
17	QCS	EPD	15 51 41.70						59.7	58	90	10.28	10.06	0.22	
17	LS4	EPD	15 51 42.45						67.4	175	90	11.43	11.31	0.12	
17	SGV	EPD	15 51 43.17						74.0	237	90	11.75	12.38	-0.63	
17	RVE	EPD4	15 51 45.50						76.0	9	90	14.08	12.71	1.37	
17	SDH	EPD	15 51 44.50						77.6	180	90	13.08	12.96	0.12	
17	GAH	EPD	15 51 45.35					170	82.3	267	90	13.93	13.73	0.21	
17	MCY	EPD	15 51 44.85						82.7	156	90	13.43	13.79	-0.36	
17	SEFG	EPD	15 51 45.10					175	85.4	147	90	13.68	14.33	-0.64	
17	MZP	EPD	15 51 48.13					189	100.9	293	90	16.71	16.75	0.15	
17	JCN	EPD	15 51 48.15					198	102.5	168	90	16.73	17.01	-0.28	
17	EPK	EPD	15 51 48.95					169	103.6	101	90	17.53	17.19	0.34	
17	APK	EPD	15 51 49.75					175	105.8	187	90	16.33	17.56	0.78	
17	LCH	EPD	15 51 51.52						117.1	264	90	20.10	19.39	0.71	
17	GVV	EPD	15 51 53.40						131.9	193	53	21.98	21.81	0.08	
17	APK	EPD	15 51 53.55						132.4	149	53	22.13	21.86	0.27	
17	NCP	EPD	15 51 53.53						135.9	173	53	21.91	22.33	-0.41	
17	PPK	EPD	15 51 54.52						139.6	274	53	23.10	22.80	0.30	
17	SHRG	EPD	15 51 54.10						140.4	132	53	22.68	22.91	-0.18	

DEC H = 16	1 18.40	UTC	RMS = 0.10	NO = 13											FREE DEPTH SOLUTION
17 LAT = 36.944 N			ERX = 0.3	ERH = 0.4	AVFM = 3.8	Q = B									
LONG = 115.737 W			ERY = 0.3	GAP = 83	AVXM =	QS = A									MERCURY
DEPTH = 2.49 KM			ERZ = 1.8	NM =		QD = C									
17	SPRG	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	6.49	0.07			
17	ISD	EPD	16 1 28.92							10.52	11.10	-0.58			
17	SSP	EPD4	16 1 26.63		202	3.9	42.9	267	90	8.23	7.33	0.90			
17	BGB	EPD	16 1 26.01		206	3.9	44.9	283	90	7.61	7.65	0.02			
17	EPR	EPD	16 1 27.71		70	3.0	54.9	63	90	9.31	9.29	0.03			
17	EPN	EPD	16 1 28.03		192	3.9	60.1	300	90	9.63	10.13	-0.49			
17	ISD4	EPD	16 1 31.91							13.51	17.72	-4.21			
17	SDH	EPD	16 1 29.09		79	3.1	63.0	238	90	10.69	10.60	0.09			
17	SHRG	EPD	16 1 30.25		127	3.6	71.3	133	90	11.85	11.95	-0.05			
17	NCP	EPD	16 1 34.70		184	4.0	97.9	202	90	16.30	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	EPD	16 1 37.45		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	EPD2	16 1 39.92		202	4.2	125.9	341	90	21.52	20.83	0.69			
17	MCA	EPD	16 1 41.61				141.6	257	53	23.21	23.07	0.15			

DEC H = 0	30 11.80	UTC	RMS = 0.22	NO = 13											FREE DEPTH SOLUTION
18 LAT = 38.036 N			ERX = 1.1	ERH = 3.3	AVFM = 2.6	Q = D									
LONG = 116.830 W			ERY = 3.1	GAP = 217	AVXM =	QS = C									BLACK BUTTE
DEPTH = 7.27 KM			ERZ = 2.4	NM =		QD = D									
18	CTS	EPD4	0 30 25.40		28	2.2	44.9	168	97	13.60	7.71	5.90			
18	RVE	EPD4	0 30 23.69		27	2.2	56.1	92	96	11.89	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	IPD4	0 30 19.10				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	EPN	EPD4	0 30 29.00		34	2.5	101.6	154	93	17.20	16.89	0.31			
18	NMN	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	EPD	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	EPD	0 30 31.91		48	2.9	122.9	154	53	20.11	20.17	-0.00			
18	GVN	EPD4	0 30 29.66		33	2.6	123.4	202	53	17.86	20.24	-2.37			
18	SSP	EPD	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	EPD4	0 30 29.50		30	2.6	143.6	156	53	17.70	22.86	-5.16			
18	LSM	EPD	0 30 36.04		40	2.9	152.2	161	53	24.24	23.97	0.28			
18	FMT	EPD	0 30 35.91		29	2.6	155.0	178	53	24.11	24.34	-0.12			
18	NPN	EPD	0 30 38.04		42	3.0	172.0	104	53	26.24	26.55	-0.31			
18	EPR	EPD	0 30 38.61				174.1	124	53	26.81	26.82	-0.01			
18	JON	EPD	0 30 41.10		40	3.0	188.5	160	53	29.30	28.69	0.62			
18	APK	EPD4	0 30 41.20				220.7	150	53	29.40	32.87	-3.46			

DEC H = 14	47 32.92	UTC	RMS = 0.44	NO = 4											FREE DEPTH SOLUTION
19 LAT = 36.325 N			ERX =	ERH =	AVFM = 2.3	Q = D									
LONG = 116.313 W			ERY =	GAP = 152	AVXM =	QS = C									ASH MEADOWS
DEPTH = 0.10 KM			ERZ =	NM =		QD = D									
19	AMR	EPD	14 47 36.05		23	1.9	16.6	299	38	3.13	3.38	-0.25			
19	JON	EPD	14 47 36.86		24	2.0	22.7	56	38	3.94	4.37	-0.44			
19	NOP	EPD	14 47 38.05		17	1.7	26.2	147	38	5.13	4.94	0.18			

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. 19	BGB	EPD	14 47 47.30					31 2.4	79.4	5	38	14.38	13.60	0.83	
. 19	PRN	IPD4	14 47 51.45					41 2.9	164.5	43	30	18.53	26.49	-7.96	
. 19	MTI	EPD4	14 47 54.28					28 2.6	176.2	32	30	21.36	28.00	-6.45	
.....															
. DEC H = 19 10 33.96 UTC RMS = 0.24 NO = 15 FREE DEPTH SOLUTION															
. 19 LAT = 36.955 N ERX = 0.6 ERH = 1.1 AVFM = 2.2 Q = C															
. LONG = 116.708 W ERY = 1.0 GAP = 114 AVXM = QS = C CHLORIDE CLIFF															
. DEPTH = 6.73 KM ERZ = 8.7 NM = QD = C															
.....															
. 19	BRO	IPU	19 10 37.81					20 1.8	22.6	161	103	3.85	4.12	-0.27	
. 19	SGV	IPU	19 10 39.29					28 2.1	29.0	276	100	5.33	5.14	0.19	
.	ESD		19 10 42.94									8.98	9.00	-0.02	
. 19	CDH5	EPD	19 10 40.29					21 1.9	36.4	107	98	6.33	6.32	0.01	
. 19	CDH1	EPD	19 10 40.32					26 2.1	36.4	107	98	6.36	6.32	0.04	
. 19	BMT	EPD	19 10 40.79					26 2.1	39.6	23	97	6.83	6.84	-0.41	
.	ISU2		19 10 45.79									11.83	12.68	-0.85	
. 19	BGB	EPD	19 10 41.72					28 2.2	43.7	78	97	7.76	7.51	0.30	
. 19	SSP	EPD	19 10 41.81					39 2.5	43.8	94	97	7.85	7.51	0.34	
. 19	EPN	EPD4	19 10 42.34					37 2.4	44.6	50	97	8.38	7.66	0.72	
. 19	LSM	EPD	19 10 41.62					42 2.5	45.7	122	96	7.66	7.83	-0.17	
. 19	SDH	EPD	19 10 42.02					27 2.2	47.6	136	96	8.06	8.14	-0.08	
. 19	LDP	EPD	19 10 42.56					40 2.5	49.5	103	96	8.60	8.44	0.17	
. 19	GVN	EPD4	19 10 39.97					27 2.2	56.7	275	95	6.01	9.61	-3.60	
.	ESD		19 10 50.54									16.58	16.82	-0.24	
. 19	GMN	EPD	19 10 44.82					17 1.8	62.2	308	95	10.86	10.50	0.36	
. 19	MCY	EPD	19 10 46.30					39 2.6	74.1	116	94	12.34	12.43	-0.09	
.....															
. DEC H = 0 38 2.82 UTC RMS = 0.32 NO = 11 FREE DEPTH SOLUTION															
. 20 LAT = 36.372 N ERX = 10.9 ERH = 14.9 AVFM = 3.5 Q = D															
. LONG = 117.379 W ERY = 10.2 GAP = 285 AVXM = QS = D TONOPAH															
. DEPTH = 0.89 KM ERZ = 8.3 NM = QD = D															
.....															
. 20	MZP	EPD	0 38 15.02						74.5	180	38	12.20	12.63	-0.24	
. 20	GMN	EPD	0 38 22.50						119.4	175	38	19.68	19.93	-0.25	
. 20	BMT	IPU4	0 38 25.06						141.9	148	30	22.24	23.36	-1.52	
.	ESD		0 38 44.85									42.03	41.58	0.45	
. 20	SGV	EPD	0 38 28.76						157.3	169	30	25.94	25.37	0.57	
. 20	TPU	EPD	0 38 30.29					57 3.3	174.1	119	30	27.47	27.55	-0.08	
.	ESU		0 38 50.58									47.76	48.22	-0.45	
. 20	GLR	IPU	0 38 30.96					73 3.5	176.9	137	30	28.14	27.91	0.38	
. 20	BGB	EPD	0 38 30.91					73 3.5	179.5	146	30	28.09	28.25	-0.11	
.	ESU4		0 38 53.13									50.31	19.35	0.96	
. 20	CDH1	EPD	0 38 32.94					42 3.0	192.1	151	30	30.12	29.89	0.23	
. 20	MTI	IPU	0 38 33.62					88 3.7	200.4	113	30	30.80	30.97	0.04	
. 20	SRG	EPD	0 38 35.01					95 3.8	209.8	105	30	32.19	32.19	0.00	
. 20	PGE	EPD	0 38 37.32					70 3.6	226.2	173	30	34.50	34.31	0.19	
. 20	NPN	IPU	0 38 37.41					83	228.8	110	30	34.59	34.66	-0.06	
. 20	DLM	EPD	0 38 39.51					40 3.2	247.0	110	30	36.69	37.01	-0.32	
.....															
. DEC H = 0 47 54.10 UTC RMS = 0.10 NO = 7 FREE DEPTH SOLUTION															
. 20 LAT = 36.525 N ERX = 0.4 ERH = 1.5 AVFM = 2.4 Q = C															
. LONG = 115.555 W ERY = 1.4 GAP = 166 AVXM = QS = C MERCURY															
. DEPTH = 0.79 KM ERZ = 156.3 NM = QD = C															
.....															
. 20	SHRG	IPD	0 48 0.41					19 1.8	35.9	94	38	6.31	6.37	-0.01	
. 20	MCY	IPU	0 48 0.81					45 2.6	39.5	293	38	6.71	6.96	-0.25	
. 20	JON	EPD	0 48 2.80					34 2.4	50.0	259	38	8.70	8.67	0.03	
. 20	LDP	EPD	0 48 5.35					38 2.5	65.9	304	38	11.25	11.25	0.00	
. 20	SDH	EPD	0 48 6.38					30 2.3	71.4	281	38	12.28	12.15	0.13	
. 20	SSP	EPD2	0 48 7.13						74.1	307	38	13.03	12.59	0.44	
. 20	CDH1	EPD	0 48 7.17					23 2.1	77.7	299	38	13.07	13.17	-0.10	
. 20	PPH	EPD4	0 48 13.53					36 2.6	107.7	25	38	19.43	18.06	1.37	
. 20	BMT	EPD4	0 48 16.56					32 2.6	121.3	314	38	22.46	20.26	1.80	
. 20	MTI	EPD3	0 48 16.47					29 2.5	130.3	11	38	22.37	21.72	0.84	
.....															
. DEC H = 1 46 16.86 UTC RMS = 0.18 NO = 21 FREE DEPTH SOLUTION															
. 20 LAT = 36.529 N ERX = 0.5 ERH = 0.6 AVFM = 2.6 Q = C															
. LONG = 115.550 W ERY = 0.4 GAP = 91 AVXM = QS = B MERCURY															
. DEPTH = 1.34 KM ERZ = 1.2 NM = QD = C															
.....															
. 20	APK	EPD	1 46 21.13					28 2.1	23.4	185	38	4.27	4.23	0.04	
. 20	SPRG	IPU	1 46 21.57					33 2.3	29.6	308	38	4.71	5.24	-0.53	
. 20	SHRG	IPU	1 46 22.07					27 2.1	35.8	94	38	6.07	6.10	-0.03	

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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	
20	CPX	EPD	1 46 27.64					22	2.0	63.5	314	38	10.78	10.75	0.03	.
20	LCP	EPD	1 46 27.78					48	2.7	66.0	303	38	10.92	11.15	-0.23	.
20	LSM	EPD	1 46 28.29							68.7	290	38	11.43	11.60	-0.17	.
20	SDH	EPD	1 46 28.89					43	2.6	71.7	280	38	12.03	12.09	-0.06	.
20	SSP	EPD	1 46 29.50					52	2.8	74.2	306	38	12.64	12.49	0.15	.
20	CDH5	EPD	1 46 29.77					34	2.5	77.8	298	38	12.91	13.08	-0.17	.
20	CDH1	EPD	1 46 29.99					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	AMR	EPD	1 46 31.13					38	2.6	84.1	260	38	14.27	14.10	0.17	.
20	GLR	EPD	1 46 31.05					48	2.8	85.3	331	38	14.19	14.29	0.05	.
20	EPN	EPD	1 46 33.24					54	3.0	102.7	318	38	16.38	17.12	-0.74	.
20	MTI	EPD	1 46 38.70					36	2.7	129.7	11	38	21.84	21.52	0.52	.
20	NPN	EPD	1 46 39.64					52	3.0	136.1	24	30	22.78	22.50	0.28	.
20	DLM	EPD	1 46 40.32					36	2.7	139.5	31	30	23.46	22.96	0.50	.
20	SGV	EPD	1 46 40.45					39	2.8	141.5	291	30	23.59	23.22	0.38	.
.....																
.....																
DEC H = 6 24 27.71 UTC RMS = 0.06 NO = 11 FREE DEPTH SOLUTION																
20 LAT = 36.748 N ERX = 0.3 ERH = 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	10.2	160	116	2.16	2.17	-0.02	.
20	SPRG	IPU	6 24 31.09					24	2.0	18.1	109	104	3.38	3.39	-0.01	.
20	LCP	IPU	6 24 31.28					36	2.3	19.0	308	104	3.57	3.52	0.04	.
20	CPX	EPD	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	EPD	6 24 32.73					33	2.3	27.6	315	99	5.02	4.90	0.11	.
20	CDH5	EPD	6 24 32.94					13	1.5	30.9	294	98	5.23	5.43	-0.20	.
20	CDH1	IPD	6 24 33.03					18	1.7	30.9	294	98	5.32	5.43	-0.11	.
20	SDH	EPD	6 24 33.30					23	2.0	32.3	249	98	5.59	5.65	-0.06	.
20	JON	EPD	6 24 33.96					22	1.9	35.4	195	97	6.25	6.16	0.09	.
20	BGB	EPD	6 24 34.21					18	1.8	38.0	328	97	6.50	6.57	-0.02	.
.....																
.....																
DEC H = 18 18 43.36 UTC RMS = 0.38 NO = 12 FREE DEPTH SOLUTION																
20 LAT = 36.514 N ERX = 1.3 ERH = 1.7 AVFM = 2.4 Q = C																
LONG = 115.560 W ERY = 1.1 GAP = 92 AVXM = QS = C MERCURY																
DEPTH = 1.66 KM ERZ = 3.4 NM = QD = C																
.....																
20	APK	EPD	18 18 47.33					33	2.2	21.6	183	38	3.97	3.88	0.09	.
20	SPRG	IPU	18 18 47.85					34	2.3	29.9	312	38	4.49	5.22	-0.73	.
20	SHRG	EPD	18 18 49.15					26	2.1	36.3	92	38	5.79	6.26	-0.42	.
20	ISU		18 18 54.01										10.65	10.87	-0.22	.
20	MCY	IPU	18 18 49.70					50	2.7	39.5	294	38	6.34	6.78	-0.44	.
20	JON	EPD	18 18 51.70					40	2.5	49.3	260	38	8.34	8.38	-0.04	.
20	LCP	EPD	18 18 54.12					48	2.7	66.1	305	38	10.76	11.11	-0.35	.
20	SDH	EPD	18 18 55.28					37	2.5	71.1	282	38	11.92	11.92	-0.00	.
20	SSP	EPD	18 18 53.50					53	2.8	74.4	308	38	10.14	12.46	-2.32	.
20	CDH1	EPD	18 18 56.78					22	2.1	77.8	300	38	13.42	13.01	0.41	.
20	BGB	EPD	18 18 57.95					34	2.5	83.2	314	38	14.59	13.89	0.75	.
20	PRN	IPD	18 19 2.08					32	2.5	109.0	25	38	18.72	18.08	0.64	.
20	MTI	EPD	18 19 5.48					24	2.4	131.5	11	38	22.12	21.74	0.58	.
.....																
.....																
DEC H = 18 32 26.54 UTC RMS = 0.09 NO = 7 FREE DEPTH SOLUTION																
20 LAT = 36.543 N ERX = 0.4 ERH = 0.7 AVFM = 2.2 Q = C																
LONG = 115.557 W ERY = 0.5 GAP = 150 AVXM = QS = C MERCURY																
DEPTH = 0.85 KM ERZ = 133.1 NM = QD = C																
.....																
20	APK	EPD	18 32 31.05					26	2.0	24.8	184	38	4.51	4.57	-0.05	.
20	SPRG	EPD	18 32 31.56					23	2.0	28.1	307	38	5.02	5.10	-0.08	.
20	SHRG	IPD	18 32 32.95					16	1.7	36.3	97	38	6.41	6.42	0.04	.
20	MCY	FPU	18 32 33.35					35	2.4	38.6	290	38	6.81	6.80	0.01	.
20	JCN	EPD	18 32 35.33					27	2.2	50.2	257	38	8.79	8.69	0.10	.
20	LCP	EPD	18 32 38.30					39	2.5	64.6	302	38	11.76	11.03	0.74	.
20	LSM	EPD	18 32 38.18					38	2.5	67.6	289	38	11.64	11.51	0.13	.
20	SDH	EPD	18 32 38.83					23	2.1	70.8	279	38	12.29	12.04	0.25	.
20	PRN	EPD	18 32 46.23					29	2.4	106.0	25	38	19.69	17.76	1.93	.
.....																
.....																
DEC H = 14 54 45.53 UTC RMS = 0.16 NO = 11 FREE DEPTH SOLUTION																
21 LAT = 37.428 N ERX = 0.7 ERH = 1.1 AVFM = 2.5 Q = C																
LONG = 114.997 W ERY = 0.8 GAP = 176 AVXM = QS = B DELAMAR MOUNTAINS																
DEPTH = 3.94 KM ERZ = 3.7 NM = QD = C																
.....																
21	PRN	IPU	14 54 46.22					32	2.2	5.2	243	118	0.69	1.30	-0.60	.
21	NPN	IPU	14 54 50.09					50	2.6	25.5	12	95	4.56	4.51	0.05	.
21	DLM	EPD	14 54 50.80					29	2.2	30.2	49	94	5.27	5.27	0.00	.
21	MTI	EPD	14 54 51.58					28	2.2	36.8	319	94	6.05	6.35	-0.09	.

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.	21	BGB	EPD	14 55	5.29			18	2.1	117.5	248	90	19.76	19.46	0.35	
.	21	EPN	EPD	14 55	5.94			38	2.7	120.0	259	90	20.41	19.87	0.55	
.	21	MCY	EPD	14 55	5.47			47	2.9	120.9	225	90	19.94	20.01	-0.07	
.	21	SSP	EPD	14 55	6.00			35	2.6	122.0	243	90	20.47	20.19	0.29	
.	21	LOP	EPD	14 55	6.02			38	2.7	122.0	239	90	20.49	20.19	0.30	
.	21	KRNA	EPD	14 55	6.94			32	2.6	127.3	286	90	21.41	21.05	0.36	
.	21	LSM	EPD	14 55	7.35			41	2.8	136.7	236	53	21.82	22.29	-0.47	

DEC H = 22 13 45.41 UTC RMS = 0.17 NO = 5 FREE DEPTH SOLUTION  
 21 LAT = 36.781 N ERX = 2.3 ERH = 3.4 AVFM = 1.2 Q = D  
 LONG = 116.229 W ERY = 2.5 GAP = 100 AVXM = QS = C LATHROP WELLS  
 DEPTH = 0.35 KM ERZ = 4.9 NM = QD = D

.	21	LSM	EPD	22 13	47.00			15	1.5	6.0	219	93	1.59	1.58	0.02	
.	21	LOP	EPD	22 13	47.39			13	1.4	9.9	34	38	1.98	2.23	-0.25	
.	21	CDH1	EPD	22 13	47.81			9	1.1	11.8	318	38	2.40	2.55	-0.15	
.	21	SSP	EPD	22 13	50.25			9	1.1	16.0	3	38	4.84	3.24	1.60	
.	21	SDH	EPD	22 13	50.37			5	0.6	17.9	213	38	4.96	3.54	1.42	
.	21	MCY	EPD	22 13	50.62			10	1.2	27.3	119	38	5.21	5.07	0.14	
.	21	BGB	EPD	22 13	50.94			17	1.7	28.5	0	38	5.53	5.27	0.31	

DEC H = 1 34 17.36 UTC RMS = 0.19 NO = 8 FREE DEPTH SOLUTION  
 22 LAT = 36.546 N ERX = 0.8 ERH = 1.4 AVFM = 2.1 Q = C  
 LONG = 115.546 W ERY = 1.1 GAP = 153 AVXM = QS = C MERCURY  
 DEPTH = 9.80 KM ERZ = 9.4 NM = QD = C

.	22	APK	IPD	1 34	22.05			30	2.2	25.3	186	109	4.69	4.68	0.01	
.	22	SPRG	EPD	1 34	22.46			33	2.3	28.7	305	106	5.10	5.21	-0.11	
.	22	SHRG	IPD	1 34	23.29			20	1.9	35.4	97	103	5.93	6.26	-0.28	
.	22	MCY	EPD	1 34	24.17			32	2.3	39.4	289	102	6.81	6.89	-0.08	
.	22	JGN	EPD	1 34	26.17			17	1.8	51.2	257	99	8.81	8.79	0.02	
.	22	LOP	EPD	1 34	29.00			26	2.2	65.2	302	97	11.64	11.04	0.60	
.	22	LSM	EPD	1 34	29.45			32	2.4	68.4	288	97	12.09	11.55	0.54	
.	22	SDH	EPD	1 34	29.67			20	2.0	71.7	279	97	12.31	12.09	0.22	

DEC H = 1 35 26.88 UTC RMS = 0.08 NO = 4 FREE DEPTH SOLUTION  
 22 LAT = 37.000 N ERX = 0.8 ERH = 1.2 AVFM = 1.5 Q = C  
 LONG = 115.436 W ERY = 0.9 GAP = 222 AVXM = QS = A  
 DEPTH = 0.08 KM ERZ = 328.5 NM = QD = D ALAMO

.	22	PRN	EPD	1 35	36.75			28	2.2	56.7	37	38	9.1	9.91	-0.04	
.	22	MTI	EPD	1 35	39.85			26	2.2	76.5	11	38	12.4	13.12	0.05	
.	22	CDH1	EPD	1 35	40.69			5	0.8	80.1	259	38	13.81	13.71	0.10	
.	22	CDH5	EPD	1 35	40.49			5	0.8	80.1	259	38	13.61	13.71	-0.10	

DEC H = 11 42 55.02 UTC RMS = 0.27 NO = 12 FREE DEPTH SOLUTION  
 22 LAT = 37.325 N ERX = 0.8 ERH = 1.2 AVFM = 2.3 Q = C  
 LONG = 116.304 W ERY = 0.9 GAP = 75 AVXM = QS = C  
 DEPTH = 1.67 KM ERZ = 328.5 NM = QD = C SILENT CANYON - NORTH

.	22	EPN	EPD	11 42	57.00			63	2.8	12.4	188	38	1.98	2.38	-0.40	
.	22	BMT	EPD	11 42	59.39			40	2.4	20.9	257	38	4.37	3.75	0.22	
.	22	ISD4	EPD	11 42	5.65								-49.37	7.27	-56.64	
.	22	GLR	EPD	11 42	59.71			24	2.0	29.0	119	38	4.69	5.07	-0.23	
.	22	BGB	EPD	11 43	0.00			51	2.7	32.6	168	38	4.98	5.66	-0.63	
.	22	SSP	EPD	11 43	2.55			37	2.4	45.1	170	38	7.53	7.69	-0.15	
.	22	KRNA	EPD	11 43	2.85			22	2.0	47.6	352	38	7.83	8.10	-0.27	
.	22	CTS	EPD	11 43	3.60			17	1.8	51.1	313	38	8.58	8.67	-0.08	
.	22	LOP	EPD	11 43	4.09			32	2.3	53.7	167	38	9.07	9.08	-0.01	
.	22	LSM	EPD	11 43	7.10			33	2.4	65.1	177	38	12.08	10.95	1.14	
.	22	SGV	EPD	11 43	7.76			35	2.5	75.1	239	38	12.74	12.57	0.17	
.	22	MCY	EPD	11 43	8.70			36	2.5	79.7	158	38	13.68	13.31	0.37	
.	22	MTI	EPD	11 43	11.69			23	2.2	99.2	67	38	16.67	16.49	0.39	
.	22	JON	EPD	11 43	12.91			17	1.9	99.9	170	38	17.89	16.60	1.29	
.	22	PRN	EPD	11 43	13.95			38	2.7	111.4	85	38	18.93	18.40	0.46	
.	22	ESD4	EPD	11 43	30.61								35.59	32.33	3.26	

DEC H = 14 42 25.17 UTC RMS = 0.18 NO = 13 FREE DEPTH SOLUTION  
 22 LAT = 37.224 N ERX = 4.9 ERH = 5.0 AVFM = 3.1 Q = D  
 LONG = 114.706 W ERY = 1.1 GAP = 270 AVXM = QS = D DELAMAR MOUNTAINS  
 DEPTH = 12.33 KM ERZ = 219.2 NM = QD = D

.	22	WRN	EPD	14 42	43.95			34	2.6	114.7	317	53	18.78	18.61	0.18	
.	22	WCS	EPD	14 42	44.85			49	2.9	122.9	299	53	19.68	19.67	0.01	

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DEC 1980	STA	PHASE	TIME (UTC)	AMP (MU)	PER (SEC)	XMAG	DUR	F MAG	DIST (KM)	AZI (DEG)	AIN (DEG)	T OBS (SEC)	T CAL (SEC)	RES (SEC)	REMARKS
22	MCY	EPD	14 42 45.25					72 3.3	128.2	241	53	20.08	20.36	-0.28	
22	BLT	EPD	14 42 45.70					60 3.1	129.4	282	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					65 3.2	138.5	256	53	21.77	21.70	0.07	
22	EPN	EPD	14 42 47.95					66 3.3	143.6	270	53	22.78	22.37	0.42	
22	LSM	EPD	14 42 47.40					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	SDH	EPD	14 42 49.65					50 3.1	159.0	246	53	24.48	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	EPD	14 42 52.66					57 3.3	184.7	284	53	27.49	27.70	-0.21	
.....															
DEC H = 1 14 45.59 UTC RMS = 0.15 NO = 5 FREE DEPTH SOLUTION															
23 LAT = 36.752 N ERX = 2.5 ERH = 3.0 AVFM = 1.4 Q = D															
LONG = 116.009 W ERY = 1.6 GAP = 209 AVXM = QS = C LATHROP 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	EPD	1 14 7.90					15 1.5	18.1	309	91	3.31	3.30	0.01	
23	LSM	EPD	1 14 8.71					13 1.4	23.5	266	90	4.12	4.18	-0.05	
23	SDH	EPD	1 14 10.11					9 1.1	31.7	248	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 = 4.0 ERH = 4.3 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	GMN	IPD	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	BRO	EPD	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	20.82	0.38	
23	GHV	EPD	9 5 47.13					40 2.8	124.4	133	38	20.72	20.87	-0.25	
23	AMR	EPD	9 5 47.05					41 2.8	124.4	120	38	20.64	20.88	-0.24	
23	SDH	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	EPD	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	EPD	9 5 48.43					40 2.8	131.9	146	38	22.02	22.08	-0.06	
23	ESU	EPD	9 6 5.40									38.99	38.65	0.34	
23	LOP	EPD	9 5 49.26					57 3.1	135.4	95	30	22.85	22.67	0.18	
23	CPX	EPD	9 5 51.65					45 2.9	144.7	91	30	25.24	23.87	1.37	
23	ESD	EPD	9 6 8.21									41.80	41.78	0.02	
23	KRNA	EPD	9 5 50.60					48 3.0	145.1	53	30	24.19	23.92	0.27	
23	BLT	EPD	9 5 51.21					40 2.9	148.4	68	30	24.80	24.34	0.46	
23	GLR	EPD	9 5 51.78					41 2.9	150.4	80	30	25.37	24.61	0.91	
23	JON	EPD	9 5 52.20					38 2.8	152.3	112	30	25.79	24.85	0.94	
23	MCY	EPD	9 5 52.56					57 3.2	156.9	102	30	26.15	25.45	0.70	
23	NOP	EPD	9 5 53.08					37 2.8	165.0	124	30	26.67	26.50	0.17	
23	SPRG	EPD	9 5 54.83					57 3.2	169.6	100	30	28.42	27.11	1.32	
23	ISU	EPD	9 6 16.65									50.24	47.44	2.81	
23	RVE	EPD	9 5 55.76					39 2.9	176.9	48	30	29.35	28.05	1.30	
23	QCS	EPD	9 5 56.43					34 2.8	180.4	60	30	30.02	28.51	1.51	
23	TPU	EPD	9 5 58.30					46 3.1	194.1	68	30	31.89	30.28	1.61	
23	ESD	EPD	9 6 22.69									56.28	52.99	3.29	
23	PRN	EPD	9 6 2.98					65 3.6	239.0	78	30	36.57	36.11	0.46	
23	NPN	EPD	9 6 5.04					54 3.5	255.4	72	30	38.63	38.24	0.39	
.....															
DEC H = 17 35 58.97 UTC RMS = 0.59 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	EPN	EPD	17 35 54.18					146 3.5	18.0	160	122	*****	3.79	-8.58	
25	BLT	EPD	17 36 4.70					65 2.8	25.1	65	114	5.73	4.80	0.92	
25	BGB	IPD	17 36 8.23					75 3.0	39.3	158	106	9.26	6.99	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	EPD	17 36 5.35					85 3.2	51.4	163	102	6.38	8.90	-2.52	
25	LOP	EPD	17 36 7.37					53 2.8	60.3	161	100	8.40	10.31	-1.91	
25	LSM	EPD	17 36 10.25					93 3.3	70.5	171	99	11.28	11.95	-0.67	
25	SGV	EPD	17 36 10.63					63 3.0	71.1	233	99	11.66	12.05	-0.39	
25	RVE	EPD	17 36 11.30					39 2.6	74.6	14	98	12.33	12.61	-0.28	
25	SDH	EPD	17 36 12.60					37 2.5	80.2	177	98	13.63	13.51	0.12	
25	MCY	EPD	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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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
25	JON	EPD	17 36 16.42					33 2.5	106.1	166	53	17.45	17.48	-0.03	
25	EPR	EPD	17 36 16.65					65 3.1	109.2	102	53	17.68	17.88	-0.20	
25	PPN	EPD	17 36 18.05						119.0	88	53	19.08	19.16	-0.08	
25	GWV	EPD	17 36 20.71					35 2.7	133.3	191	53	21.74	21.02	0.62	
.....															
DEC H = 3	21 46.63	UTC	RMS = 1.37	NO = 5											FIXED DEPTH SOLUTION
26 LAT =	36.663 N		ERX = 324.0	ERH = 335.6				AVFM = 2.5	Q = D						DEPTH CONTROL INADEQUATE
LONG =	115.201 W		ERY = 87.5	GAP = 276				AVXM =	QS = D						HAYFORD PEAK
DEPTH =	5.00 KM		ERZ = 318.6	NM =					QD = D						
26	MCY	EPD	3 21 57.20					52 2.8	68.0	270	93	10.57	11.42	-0.86	
26	JON	EPD	3 21 59.20					19 2.0	84.4	253	92	12.57	14.09	-1.52	
26	LSM	EPD	3 22 6.00					57 3.0	96.0	275	92	19.37	15.98	3.39	
26	NOP	EPD	3 22 4.50					55 3.0	104.0	235	92	17.87	17.28	0.59	
26	KRNA	EPD	3 22 11.79					13 1.9	159.7	319	53	25.16	25.17	-0.01	
.....															
DEC H = 7	1 18.15	UTC	RMS = 0.06	NO = 7											FREE DEPTH SOLUTION
26 LAT =	36.646 N		ERX = 0.3	ERH = 0.4				AVFM = 2.5	Q = B						
LONG =	115.443 W		ERY = 0.3	GAP = 106				AVXM =	QS = A						HAYFORD PEAK
DEPTH =	18.66 KM		ERZ = 0.4	NM =					QD = B						
26	SHRG	IPD	7 1 24.13					29 2.2	30.2	121	120	5.98	6.01	0.02	
26	SPRG	EPD	7 1 24.51					34 2.3	33.2	279	118	6.36	6.43	-0.07	
26	MCY	EPD	7 1 26.36					44 2.6	46.4	272	111	8.21	8.40	-0.20	
26	JON	EPD	7 1 27.85					32 2.4	63.4	249	105	9.70	11.03	-1.34	
26	LCP	EPD	7 1 30.35					36 2.5	68.6	290	104	12.20	11.85	0.34	
26	SDH	EPD	7 1 31.70					32 2.4	80.1	270	53	13.55	13.50	0.05	
26	NCP	EPD	7 1 32.41					35 2.5	85.8	228	53	14.26	14.24	0.02	
26	PRN	EPD	7 1 30.81					41 2.7	91.4	23	53	12.66	14.96	-2.30	
	ISU		7 1 44.34									26.19	26.18	0.01	
26	EPN	EPD	7 1 35.94					44 2.8	100.6	309	53	17.79	16.16	1.62	
.....															
DEC H = 8	46 30.82	UTC	RMS = 0.03	NO = 4											FREE DEPTH SOLUTION
28 LAT =	36.687 N		ERX =	ERH =				AVFM = 1.9	Q = C						
LONG =	116.322 W		ERY =	GAP = 182				AVXM =	QS = A						LATHROP WELLS
DEPTH =	3.66 KM		ERZ =	NM =					QD = D						
28	SDH	EPD	8 46 32.03					22 1.8	4.8	198	118	1.21	1.22	-0.01	
28	LCP	EPD	8 46 34.90					24 2.0	23.1	37	95	4.08	4.13	-0.05	
28	SSP	EPD	8 46 35.80					16 1.6	28.0	19	94	4.98	4.92	0.06	
28	MCY	EPD	8 46 36.46					23 2.0	32.3	95	94	5.64	5.61	0.03	
.....															
DEC H = 12	9 23.94	UTC	RMS = 0.03	NO = 4											FIXED DEPTH SOLUTION
30 LAT =	36.612 N		ERX =	ERH =				AVFM = 1.5	Q = C						DEPTH CONTROL INADEQUATE
LONG =	116.257 W		ERY =	GAP = 153				AVXM =	QS = A						LATHROP WELLS
DEPTH =	5.00 KM		ERZ =	NM =					QD = D						
30	SDH	EPD	12 9 25.75					12 1.3	8.1	297	115	1.81	1.79	0.02	
30	LSM	EPD	12 9 26.60					18 1.7	14.1	355	104	2.66	2.72	-0.05	
30	JCN	EPD	12 9 28.16					9 1.1	23.6	144	98	4.22	4.23	-0.01	
30	MCY	EPD	12 9 28.75					17 1.7	27.0	78	97	4.81	4.77	0.04	
.....															
DEC H = 19	45 27.57	UTC	RMS = 0.19	NO = 12											FREE DEPTH SOLUTION
30 LAT =	37.316 N		ERX = 0.9	ERH = 1.1				AVFM = 2.2	Q = C						
LONG =	115.046 W		ERY = 0.7	GAP = 203				AVXM =	QS = B						ALAMO
DEPTH =	1.66 KM		ERZ = 1.0	NM =					QD = D						
30	PRN	EPD	19 45 29.49					23 1.9	10.1	358	38	1.92	2.01	-0.08	
30	EPR	IPD	19 45 31.13					34 2.3	20.5	217	38	3.56	3.70	-0.14	
30	NPN	IPD	19 45 34.13					24 2.0	38.6	15	38	6.56	6.64	-0.08	
	ISU		19 45 39.34									11.77	11.62	0.15	
30	MTI	EPD	19 45 34.93					27 2.1	44.8	333	38	7.36	7.64	-0.08	
30	TPU	EPD	19 45 37.95					22 2.0	62.2	301	38	10.38	10.48	-0.10	
	ISU		19 45 45.71									18.14	18.33	-0.19	
30	SRG	EPD	19 45 38.11					29 2.3	62.9	358	38	10.54	10.59	-0.04	
	ISU4		19 45 46.62									19.05	18.53	0.53	
30	QCS	EPD	19 45 43.80					16 1.9	91.8	303	38	16.23	15.29	0.94	
30	SFRG	EP	19 45 43.71					27 2.3	96.8	225	38	16.14	16.10	0.04	
	ISD4		19 45 58.43									30.86	28.18	2.68	
30	MCY	EPD	19 45 46.62					30 2.5	109.2	228	38	19.05	18.11	0.94	
30	LCP	EPD	19 45 47.48					25 2.3	112.1	243	38	19.91	18.58	1.33	
30	EPN	EPD	19 45 47.02					23 2.3	113.8	264	38	20.25	18.87	1.39	
30	LSM	EPD	19 45 49.35					24 2.3	126.5	240	38	21.78	20.93	0.86	
30	KRNA	EPD	19 45 49.09					25 2.4	127.4	292	38	21.52	21.08	0.44	
30	RVE	EPD	19 45 49.12					19 2.1	127.7	308	38	21.55	21.13	0.43	