

EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

July 1 – September 30, 2022

Prepared by the University of Utah Seismograph Stations and funded by
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December 28, 2022

Foreword and Data Explanation

This report contains an epicenter map (Figure 1) and listings of earthquakes (Tables 1 and 2) detected and located in the Utah region (lat. 36° 45' – 42° 30' N, long. 108° 45' – 114° 15' W). The computer program HYPOINVERSE-2000 (F. W. Klein, 2012, U.S. Geological Survey Open-File Report 02-171 revised) was used to process the earthquake data. This report also includes maps and a table of operating seismograph stations in the University of Utah's regional/urban seismic network (Figures 2 and 3, Table 3).

The earthquake listing in Table 2 is estimated to be systematically complete above magnitude 1.5 within the Intermountain Seismic Belt in Utah and above magnitude 2.0 to 2.5 elsewhere in the state. *These data are preliminary—both the locations and magnitudes in this table are subject to revision. The catalog may include some man-made seismic events not yet identified.*

The following data are listed for each earthquake in Table 2:

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was MDT.
- Earthquake location coordinates in degrees and minutes of north latitude and west longitude, and depth in kilometers below sea level. Note that prior to October 1, 2012, the earthquake depths in these quarterly reports were computed relative to a datum of 1500 m above sea level.
- "*" indicates poor depth resolution: no recording stations within 10 km or twice the depth.
- MAG, the computed Richter local magnitude (M_L) for each earthquake. "W" indicates that peak amplitude measurements from Wood-Anderson records were used. Otherwise, the estimate is calculated from signal durations and is more correctly identified as coda magnitude (M_C). The notation "--" indicates that a reliable magnitude estimate could not be made.
- NO, the number of P and S readings used in the solution.
- GAP, the largest azimuthal separation in degrees between recording stations used in the solution.
- DMN, the epicentral distance in kilometers to the closest station.
- RMS, the weighted root-mean-square of the travel-time residuals in seconds:

$$RMS = \left(\frac{\sum_i (W_i R_i)^2}{\sum_i (W_i)^2} \right)^{\frac{1}{2}}$$

where: R_i is the observed minus the computed arrival time for the i -th P or S reading, and W_i is the relative weight given to the i -th P or S arrival time (0.0 for no weight through 1.0 for full weight).

EARTHQUAKE ACTIVITY IN THE UTAH REGION July 1 – September 30, 2022

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During the three-month period July 1, 2022, through September 30, 2022, the University of Utah Seismograph Stations (UUSS) located 1,011 earthquakes within the Utah region (Figure 1). The total includes one earthquake in the magnitude 3 range and 55 earthquakes in the magnitude 2 range. Earthquakes of magnitude 3.0 or larger (plotted as stars and specifically labeled on Figure 1) are listed below. One earthquake was reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2022 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

Online Information

A complete copy of this report, including maps and the earthquake catalog, is available on the UUSS web site at <http://www.quake.utah.edu/earthquake-center/quarterly-seismicity-reports>.

Note: On October 1, 2012, UUSS began using the ANSS Quake Monitoring System (AQMS) software package for data acquisition and data processing. The primary effect on the data reported herein comes from computing the earthquake locations with a newer version of the computer program HYPOINVERSE-2000 (F. W. Klein, 2012, U.S. Geological Survey Open-File Report 02-171 revised) and a revised and expanded set of velocity models. As implemented at UUSS, this new version of the location program accounts for station elevation differences more accurately and reports focal depths relative to sea level instead of the 1500 m elevation datum used previously.

ShakeMaps—computer maps of the ground shaking produced by an earthquake—are automatically produced by UUSS for earthquakes of magnitude 3 and larger within a 75-mile wide zone along the I-15 corridor and magnitude 3.5 and larger elsewhere in the Utah region. These magnitude thresholds have changed with time as the network of strong-motion stations in the state has expanded. The ShakeMaps are accessible on the UUSS web page at <http://www.quake.utah.edu>. Earthquakes for which ShakeMaps are available are indicated in Table 1.

For earthquakes of magnitude 3 and larger in the Utah region, the U. S. Geological Survey automatically posts a Community Internet Intensity Map (CIIM) on its "Did You Feel It?" web page at <http://earthquake.usgs.gov/earthquakes/dyfi/>. We encourage anyone who feels an earthquake to report their observations on this interactive web site; felt information is available by zip code on the CIIM site or can be obtained from UUSS directly.

Earthquakes of Magnitude 3.0 or Larger

M_L 3.0 July 12 23:12 MDT 3 mi ENE of Mount Pleasant, UT

Other Notable Seismicity

During the report period, there were six notable spatial clusters of natural earthquake activity. For reporting purposes, we define a cluster as ten or more earthquakes occurring within a 10-km (6-mile) radius during the report period.

- A. A cluster of 10 earthquakes ($0.1 \leq M \leq 1.6$) occurred about 15 mi NW of Garland, UT. Five of these events occurred between August 15 and August 20.
- B. A cluster of 17 earthquakes ($0.1 \leq M \leq 2.1$) occurred about 8 mi ENE of Providence, UT. 14 of these events occurred between August 28 and August 30.
- C. A cluster of 24 earthquakes ($0.1 \leq M \leq 2.1$) occurred about 3 mi NE of Magna, UT. 11 of these events, including a magnitude 2.1 shock, occurred between July 1 and July 21.
- D. A cluster of 13 earthquakes ($0.5 \leq M \leq 2.1$) occurred about 16 mi SSW of Kanosh, UT. Eight of these events, including a magnitude 2.1 shock, occurred between August 3 and August 27.
- E. A cluster of 39 earthquakes ($-0.7 \leq M \leq 1.8$) occurred about 13 mi NE of Milford, UT. 25 of these events, including a magnitude 1.8 shock, occurred between September 3 and September 29.

In Figure 1, the locally clustered seismic events within a radius of approximately 30 miles of Price, together with a localized cluster about 50 miles to its southwest, are associated with known areas of underground coal mining and are interpreted to be mining-related. These events include a total of 753 located shocks ($0.8 \leq M \leq 2.2$) that occurred during the report period.

Seismicity of the Utah Region July 1 – September 30, 2022

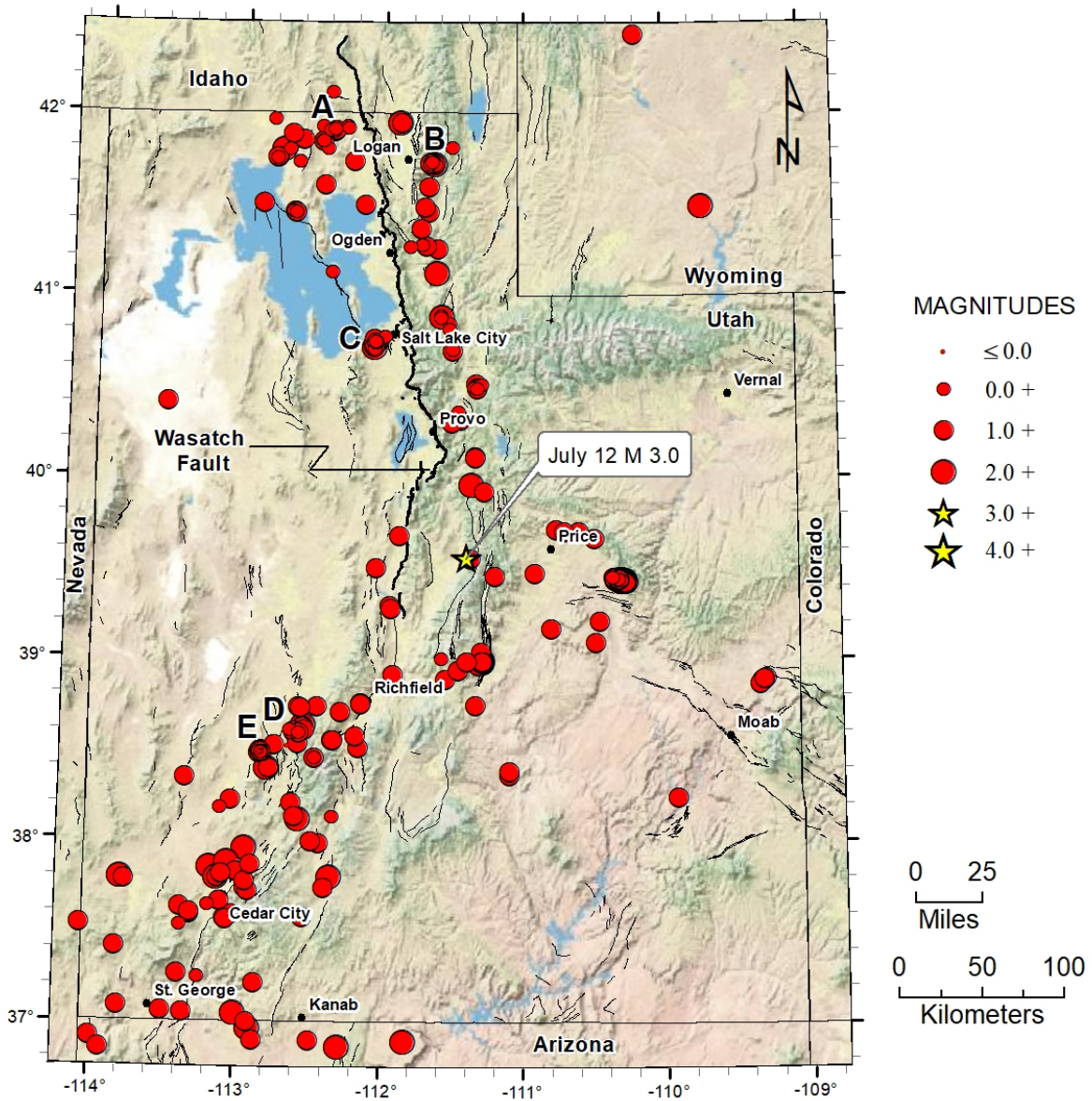


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults (black lines) compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local date and size. The earthquake clusters labeled A–E are discussed in the text.

Table 1

EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION

January 1, 2022 to December 31, 2022

Date and Time†	Felt Information‡	Latitude	Longitude	Magnitude§
2022-02-19 15:17:28 MST 2022-02-19 22:17:28 UTC	DYFI ShakeMap	38° 34.41'	112° 13.43'	M _L 3.5
2022-03-02 02:08:11 MST 2022-03-02 09:08:11 UTC	DYFI ShakeMap	38° 35.09'	112° 12.75'	M _L 3.4
2022-05-31 16:12:11 MDT 2022-05-31 22:12:11 UTC	DYFI ShakeMap	39° 04.28'	109° 17.15'	M _C 2.5
2022-05-31 16:12:27 MDT 2022-05-31 22:12:27 UTC	DYFI ShakeMap	39° 03.65'	109° 17.75'	M _L 3.8
2022-06-03 05:02:47 MDT 2022-06-03 11:02:47 UTC	DYFI	40° 43.13'	112° 05.92'	M _L 2.5
2022-07-12 23:18:47 MDT 2022-07-13 05:18:47 UTC	DYFI ShakeMap	39° 33.34'	111° 24.32'	M _L 3.0

† Times are listed both as Local Time—Mountain Standard Time (MST) or Mountain Daylight Time (MDT)—and as Universal Coordinated Time (UTC).

‡ *DYFI* indicates the availability of a Community Internet Intensity Map (<https://earthquake.usgs.gov/earthquakes/dyfi>), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking produced by the University of Utah Seismograph Stations (UUSS) and displayed by USGS at <https://earthquake.usgs.gov/earthquakes/shakemap>.

§ Moment magnitude (M_w), Richter local magnitude (M_L), and coda magnitude (M_C) determined by UUSS. If labeled “NEIC,” data are from the National Earthquake Information Center of the USGS.

Utah Regional/Urban Seismic Network September 30, 2022

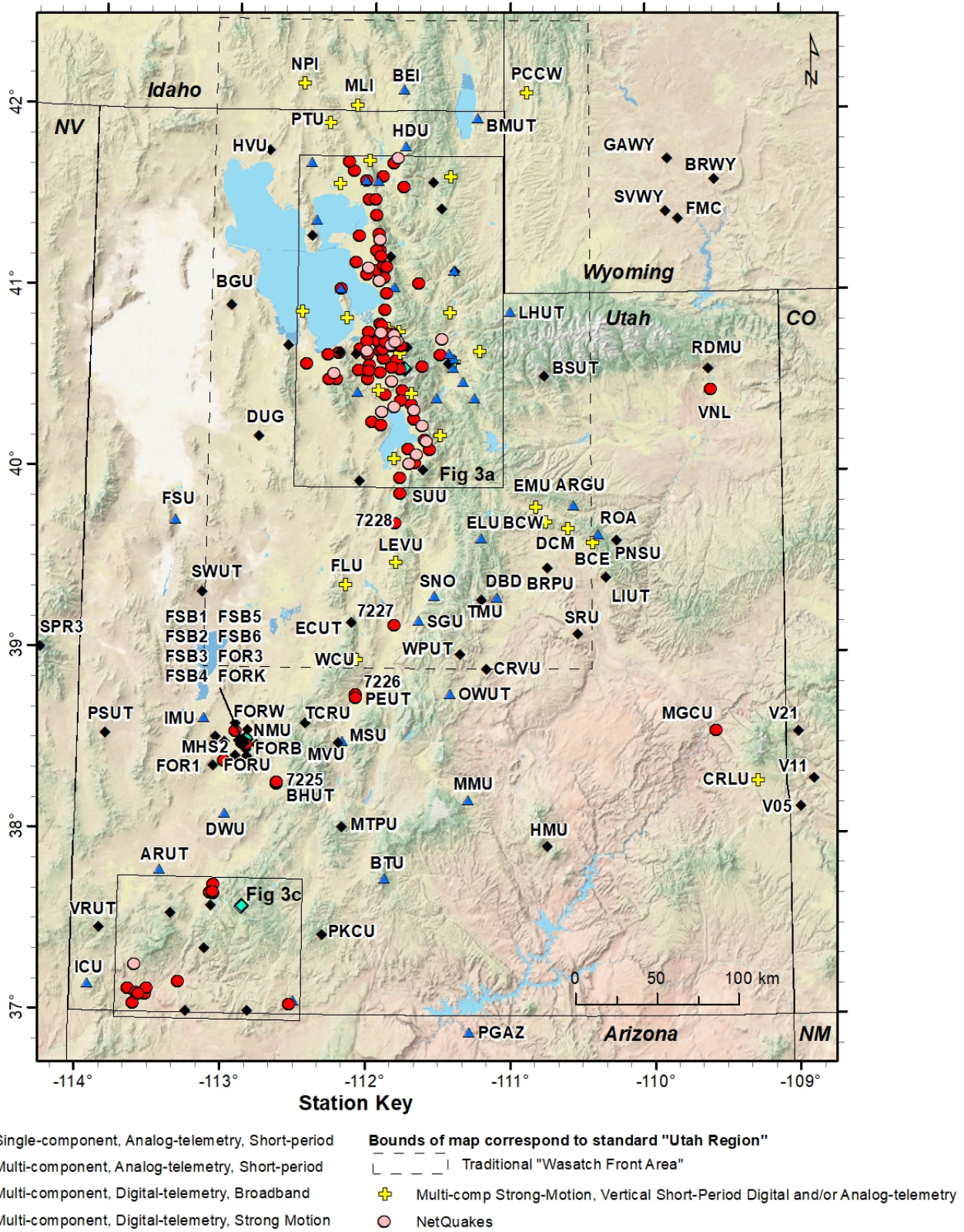


Figure 2

Utah Urban Seismic Network (September 30, 2022)

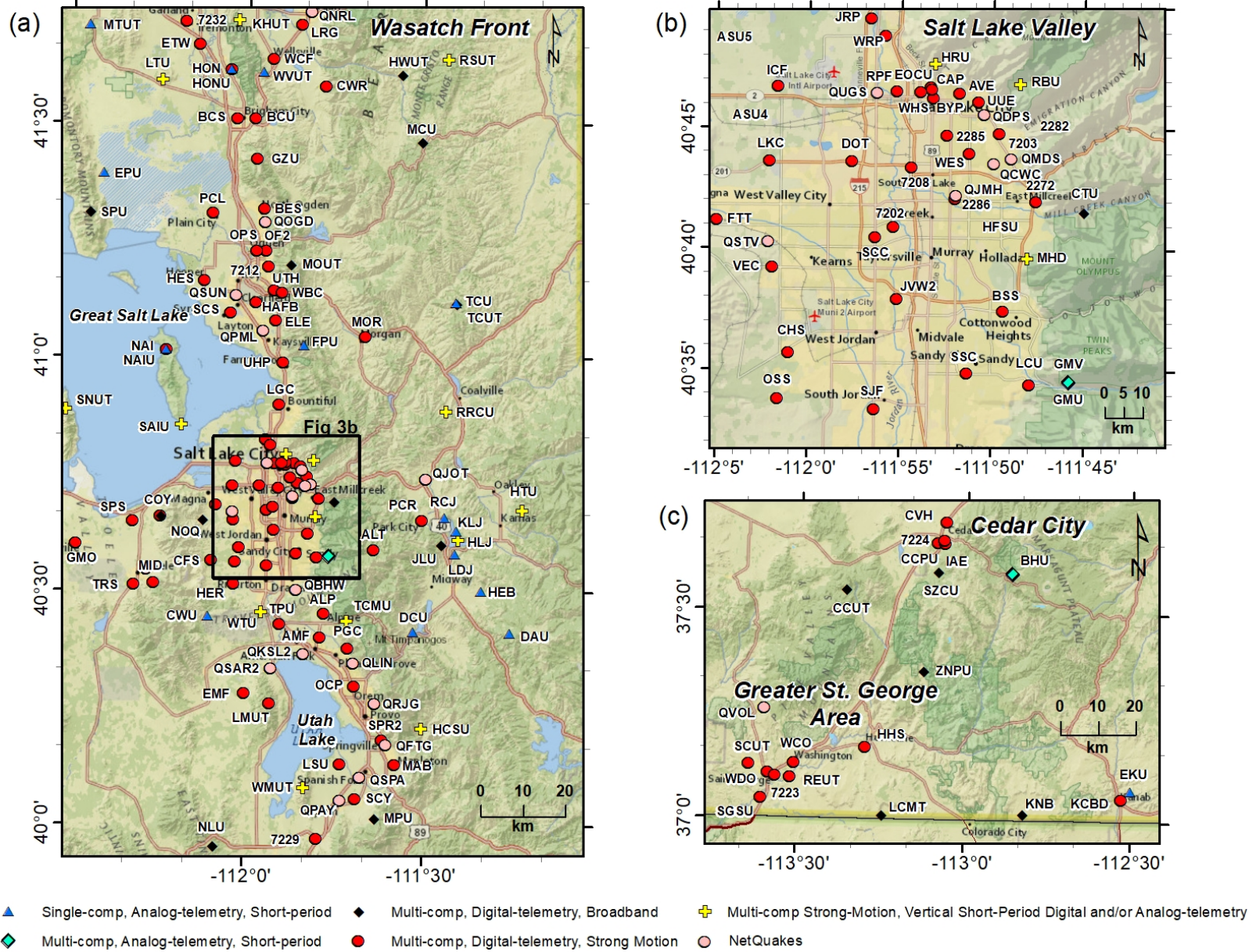


Figure 3

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2022

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220701	00:36:50.95	39° 25.65'	110° 18.01'	-1.6	1.4W	7	198	2	0.15
220701	00:56:52.39	39° 25.61'	110° 17.98'	-1.6	1.7	6	198	2	0.14
220701	01:14:28.91	39° 25.71'	110° 17.82'	-1.8	1.4W	7	199	2	0.14
220701	01:26:39.15	39° 25.71'	110° 18.48'	-1.1	1.4	7	195	2	0.13
220701	03:08:16.42	39° 26.00'	110° 18.52'	-1.5	1.2W	7	179	2	0.17
220701	03:40:02.02	39° 25.88'	110° 17.10'	-3.0	1.8W	14	186	4	0.19
220701	04:10:59.52	39° 25.72'	110° 17.55'	-2.3	1.4W	8	185	3	0.14
220701	05:00:54.04	39° 25.87'	110° 18.27'	-1.5	1.1W	8	196	2	0.15
220701	08:10:52.48	40° 44.16'	112° 03.16'	10.3	1.3W	36	43	2	0.17
220701	08:28:15.04	39° 25.79'	110° 17.21'	-3.3	1.4W	10	186	3	0.16
220701	15:55:06.42	39° 25.68'	110° 17.34'	-2.6	1.5W	7	201	3	0.14
220701	17:33:02.74	37° 15.72'	113° 23.24'	1.6*	1.5W	14	101	25	0.30
220702	12:46:52.93	38° 14.15'	109° 55.04'	6.0*	1.2	11	150	58	0.13
220702	17:29:37.33	36° 53.93'	112° 51.97'	23.7	1.5W	12	83	14	0.05
220702	19:37:43.31	41° 47.73'	112° 42.15'	-3.3	0.9	8	127	6	0.10
220703	08:45:58.36	40° 42.62'	112° 04.17'	11.8	2.0W	53	38	3	0.18
220703	16:24:19.44	40° 42.00'	112° 04.37'	13.0	0.7	13	74	2	0.08
220704	09:51:58.34	39° 17.43'	111° 56.72'	1.4*	1.7W	24	59	21	0.22
220704	22:32:58.48	38° 20.49'	113° 21.92'	1.7*	1.3W	10	118	24	0.10
220705	10:30:10.87	37° 46.37'	112° 56.03'	6.8	1.4W	12	184	13	0.31
220705	13:30:16.51	39° 26.07'	110° 19.81'	-1.1	0.8	5	141	1	0.01
220705	15:40:35.24	40° 44.34'	112° 03.51'	7.7	1.0W	21	91	2	0.14
220705	15:59:18.98	39° 25.72'	110° 17.23'	-3.1	1.8W	10	202	3	0.17
220705	17:07:30.80	39° 25.62'	110° 17.95'	-1.4	1.6W	9	183	2	0.16
220705	17:31:23.38	39° 25.79'	110° 18.09'	-1.6	1.2W	9	197	2	0.13
220705	17:36:43.90	39° 26.12'	110° 18.88'	-1.0	1.1W	9	192	2	0.10
220705	18:57:12.29	39° 25.96'	110° 18.48'	-1.3	1.2W	9	195	2	0.10
220705	19:16:58.99	39° 25.89'	110° 17.93'	-1.8	1.5W	15	183	2	0.15
220705	20:45:38.51	39° 25.84'	110° 18.52'	-1.0	1.7W	14	195	2	0.09
220705	22:48:01.06	39° 25.77'	110° 18.42'	-1.1	1.5	11	195	2	0.08
220705	23:01:49.33	39° 25.62'	110° 17.19'	-3.3	1.5W	8	203	3	0.14
220705	23:23:45.13	39° 25.71'	110° 18.42'	-1.2	1.1W	7	196	2	0.14
220705	23:34:18.65	39° 25.69'	110° 18.40'	-1.2	1.2W	8	196	2	0.13
220706	01:22:02.70	39° 25.80'	110° 18.52'	-1.2	1.5W	16	180	2	0.16
220706	01:40:33.00	39° 25.83'	110° 18.03'	-1.8	1.6W	13	197	2	0.14
220706	05:42:19.96	36° 50.81'	113° 54.74'	4.4*	1.3W	8	281	34	0.12
220706	08:19:20.27	39° 25.78'	110° 17.85'	-2.0	1.7W	16	198	2	0.14
220706	08:45:22.73	39° 25.26'	110° 16.29'	-3.4	1.1	6	208	5	0.16
220706	15:12:08.70	39° 25.59'	110° 17.27'	-3.0	1.5W	8	202	3	0.12
220706	17:26:51.64	39° 25.89'	110° 18.94'	-1.1	1.7W	14	125	1	0.17
220706	17:51:45.49	39° 25.87'	110° 18.46'	-1.2	1.9W	18	180	2	0.12
220706	18:06:38.16	39° 25.70'	110° 18.23'	-1.4	1.6W	12	197	2	0.14
220706	18:31:32.73	39° 25.76'	110° 18.00'	-1.7	1.6	9	198	2	0.15
220706	20:39:40.73	39° 26.03'	110° 19.46'	-0.9	1.1	9	167	1	0.04

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2022

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220706	21:37:41.77	39° 42.66'	110° 46.24'	5.6*	1.3W	7	255	23	0.13
220707	00:10:43.66	39° 25.96'	110° 17.85'	-2.8	1.5W	7	198	3	0.15
220707	00:28:28.63	39° 25.37'	110° 18.11'	-0.9	1.2W	10	199	2	0.15
220707	00:40:17.25	39° 26.28'	110° 18.30'	-2.4	1.2W	7	216	2	0.14
220707	01:02:31.37	39° 25.62'	110° 17.55'	-2.0	1.3W	7	185	3	0.15
220707	01:21:49.82	39° 25.95'	110° 17.90'	-2.2	1.4	8	198	2	0.14
220707	01:39:34.96	39° 25.71'	110° 17.62'	-2.2	1.4	7	200	3	0.14
220707	02:21:23.70	39° 26.41'	110° 20.42'	-2.8	1.8W	13	77	2	0.25
220707	03:12:20.37	39° 25.98'	110° 18.07'	-1.8	1.2W	8	183	2	0.10
220707	03:48:53.32	39° 25.77'	110° 18.39'	-1.4	1.5W	9	195	2	0.14
220707	04:06:50.04	39° 25.74'	110° 17.72'	-1.9	1.5W	9	200	3	0.16
220707	04:58:41.94	39° 25.60'	110° 17.92'	-1.5	1.2W	6	199	2	0.15
220707	05:09:35.52	39° 25.95'	110° 18.21'	-1.6	1.5W	12	183	2	0.13
220707	05:56:32.34	39° 25.97'	110° 18.47'	-1.5	1.2W	9	195	2	0.14
220707	06:15:47.69	38° 45.28'	112° 08.58'	9.4*	1.8W	29	80	24	0.22
220707	09:39:45.75	38° 44.89'	112° 08.71'	-0.6	1.4W	12	166	6	0.26
220707	14:22:16.37	39° 25.82'	110° 17.76'	-2.1	1.6W	12	185	3	0.14
220707	14:38:37.19	39° 25.66'	110° 17.37'	-2.6	1.4W	10	201	3	0.14
220707	14:52:45.24	39° 25.94'	110° 17.50'	-2.8	1.6W	15	169	3	0.16
220707	15:28:28.87	39° 25.74'	110° 17.61'	-2.5	1.6W	11	184	3	0.17
220707	15:30:31.64	39° 25.74'	110° 18.03'	-1.6	1.4W	9	197	2	0.15
220707	16:53:14.99	39° 25.90'	110° 19.11'	-0.9	1.2W	6	191	1	0.08
220707	16:58:50.47	39° 25.60'	110° 17.90'	-1.6	1.2W	6	199	2	0.16
220707	17:01:57.51	39° 25.27'	110° 16.67'	-3.4	1.2W	6	206	4	0.13
220707	17:25:54.31	39° 26.02'	110° 18.92'	-1.1	1.6	7	192	1	0.10
220707	18:16:26.32	39° 25.75'	110° 18.70'	-1.0	1.6W	16	194	1	0.16
220707	20:01:08.30	39° 25.56'	110° 18.14'	-1.3	1.5W	11	197	2	0.15
220707	21:15:07.65	39° 25.68'	110° 17.19'	-3.0	1.7W	13	186	3	0.16
220707	21:30:22.77	39° 25.74'	110° 18.01'	-1.6	1.4W	9	198	2	0.16
220707	21:41:41.77	39° 25.73'	110° 18.17'	-1.5	1.6W	8	197	2	0.14
220707	22:56:12.41	40° 48.48'	111° 31.85'	11.8	0.6W	12	99	12	0.11
220708	01:38:35.10	39° 26.23'	110° 20.15'	-2.7	1.5W	9	106	2	0.23
220708	02:00:24.87	39° 25.69'	110° 18.48'	-1.1	1.7W	16	116	2	0.15
220708	02:30:19.72	39° 25.72'	110° 17.49'	-2.3	1.2W	7	200	3	0.14
220708	02:31:24.39	39° 25.98'	110° 19.21'	-0.9	1.3	6	188	1	0.05
220708	03:06:12.28	39° 26.07'	110° 18.36'	-1.8	2.0W	20	103	2	0.19
220708	03:29:00.34	39° 25.80'	110° 18.00'	-1.6	1.2W	10	198	2	0.16
220708	05:11:27.39	39° 25.88'	110° 18.08'	-2.0	1.7W	11	182	2	0.14
220708	05:43:32.18	39° 25.40'	110° 16.74'	-3.4	1.3W	7	187	4	0.13
220708	07:06:08.64	39° 25.54'	110° 16.51'	-3.4	1.6W	11	206	4	0.16
220708	07:23:47.94	39° 25.25'	110° 16.11'	-3.4	1.5	6	209	5	0.19
220708	07:46:18.05	39° 25.29'	110° 16.22'	-3.4	1.5	6	208	5	0.17
220708	08:52:23.76	37° 12.86'	112° 51.47'	19.3	1.3W	8	174	22	0.09
220708	12:32:33.13	37° 52.60'	113° 03.43'	12.2*	2.0W	26	60	26	0.17

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2022

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220708	15:18:50.33	36° 59.84'	112° 54.62'	20.0	1.4W	9	136	8	0.13
220708	15:56:23.38	40° 42.81'	112° 04.63'	9.6	1.1	11	80	8	0.12
220708	17:32:11.60	39° 25.66'	110° 18.31'	-1.1	1.4W	13	197	2	0.16
220708	17:40:02.69	39° 25.68'	110° 18.03'	-1.5	1.5W	11	183	2	0.16
220708	20:05:41.77	39° 25.86'	110° 19.14'	-0.9	1.8	8	191	1	0.04
220708	20:13:54.92	39° 25.79'	110° 17.87'	-2.0	1.8W	17	183	2	0.15
220708	20:51:51.15	39° 26.06'	110° 19.62'	-1.0	1.5	8	154	1	0.03
220708	20:59:17.40	39° 25.91'	110° 18.73'	-1.0	1.7	8	194	1	0.10
220708	21:59:22.49	37° 02.89'	113° 20.88'	3.4	1.4W	18	115	10	0.12
220709	00:47:58.28	39° 25.66'	110° 18.44'	-1.2	1.5	8	196	2	0.14
220709	02:05:08.10	39° 25.71'	110° 17.41'	-2.7	1.4W	7	201	3	0.14
220709	02:21:07.24	39° 25.75'	110° 17.53'	-2.3	1.6W	7	200	3	0.15
220709	02:30:50.35	39° 25.30'	110° 16.24'	-3.4	1.2W	6	208	5	0.16
220709	03:01:29.21	39° 25.28'	110° 16.31'	-3.4	1.4W	6	208	5	0.17
220709	03:29:01.27	39° 25.28'	110° 16.51'	-3.4	1.3W	6	206	4	0.15
220709	04:24:41.08	39° 25.50'	110° 16.94'	-3.3	1.8W	8	187	4	0.14
220709	05:07:36.38	39° 25.93'	110° 18.12'	-1.7	1.7W	8	197	2	0.14
220709	05:17:49.32	39° 25.81'	110° 17.57'	-2.2	1.7	8	200	3	0.15
220709	06:47:03.87	41° 57.61'	112° 48.89'	7.2*	0.9	9	239	20	0.05
220709	11:42:47.99	41° 29.29'	109° 42.55'	-3.4*	2.4W	17	136	11	0.25
220710	10:47:32.03	41° 36.06'	112° 26.51'	4.5	1.0W	16	121	8	0.11
220710	18:42:06.67	38° 34.46'	112° 11.00'	8.4	1.1W	11	109	7	0.10
220711	11:00:24.72	37° 48.66'	113° 05.67'	11.5*	1.3W	13	163	24	0.13
220711	14:14:00.79	39° 25.73'	110° 17.78'	-1.9	1.6W	9	183	3	0.15
220711	15:43:27.87	39° 25.78'	110° 17.32'	-3.2	1.7W	12	185	3	0.15
220711	16:11:45.54	39° 25.65'	110° 18.16'	-1.5	1.5W	8	197	2	0.16
220711	16:31:16.88	39° 25.76'	110° 17.52'	-2.3	1.4W	8	184	3	0.16
220711	17:39:35.33	39° 25.94'	110° 17.86'	-2.1	1.6W	11	198	3	0.15
220711	19:39:32.06	39° 25.96'	110° 19.18'	-0.9	1.6	12	116	1	0.10
220712	14:49:35.05	38° 53.47'	109° 17.72'	6.0*	1.7	14	137	46	0.14
220712	14:59:55.88	39° 25.58'	110° 17.82'	-2.1	1.7W	15	199	2	0.12
220712	15:16:03.20	39° 33.00'	111° 22.37'	1.6*	1.5W	19	78	18	0.14
220712	16:31:02.33	38° 52.39'	109° 19.22'	6.0*	1.9W	15	95	46	0.14
220712	16:49:40.16	38° 52.48'	109° 19.31'	6.0*	1.8W	16	95	46	0.12
220712	21:18:02.70	39° 26.34'	110° 19.96'	-1.7	1.8	9	110	2	0.12
220712	23:24:20.17	40° 52.81'	111° 35.35'	11.5	2.5W	41	56	13	0.17
220712	23:31:50.44	40° 52.44'	111° 35.83'	8.6	0.6	6	175	14	0.04
220713	00:04:07.65	39° 25.71'	110° 17.56'	-2.7	1.5	5	200	3	0.08
220713	00:34:28.72	39° 25.72'	110° 18.20'	-1.5	1.3W	7	197	2	0.09
220713	00:53:00.55	39° 25.74'	110° 17.80'	-2.0	1.4	7	199	3	0.13
220713	01:23:22.21	40° 52.96'	111° 35.59'	10.9	0.9W	14	115	13	0.11
220713	01:26:53.59	37° 24.35'	113° 49.35'	9.6	1.5W	8	136	7	0.12
220713	01:42:05.92	39° 25.78'	110° 16.68'	-3.4	1.8W	15	169	4	0.24
220713	02:36:04.04	39° 25.38'	110° 16.50'	-3.4	1.8W	11	188	4	0.14

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220713	02:56:56.83	39° 25.25'	110° 16.49'	-3.4	1.3W	7	207	4	0.15
220713	02:57:55.57	39° 26.05'	110° 19.31'	-1.0	0.9	5	179	1	0.03
220713	05:10:50.80	39° 25.29'	110° 16.77'	-3.4	1.3W	6	205	4	0.11
220713	05:18:47.47	39° 33.34'	111° 24.32'	4.6*	3.0W	37	55	20	0.15
220713	05:29:20.06	39° 25.60'	110° 17.50'	-2.5	1.8W	13	200	3	0.15
220713	15:07:20.43	39° 26.18'	110° 18.34'	-2.2	1.8W	12	195	2	0.15
220713	15:22:14.94	39° 25.92'	110° 18.91'	-1.1	1.4W	7	192	1	0.12
220713	15:52:24.60	40° 52.37'	111° 35.58'	9.3	0.6	10	133	13	0.04
220713	17:37:43.48	39° 25.74'	110° 18.07'	-1.6	1.6W	10	197	2	0.12
220713	18:03:49.73	39° 25.71'	110° 18.15'	-1.4	1.7W	10	197	2	0.14
220713	18:21:42.03	39° 25.87'	110° 18.83'	-1.1	1.4	7	193	1	0.15
220713	19:05:56.61	39° 26.02'	110° 18.86'	-1.2	1.8W	12	192	1	0.09
220713	23:26:30.12	39° 25.56'	110° 18.89'	-0.7	1.5W	11	194	1	0.15
220713	23:48:26.26	39° 25.93'	110° 19.14'	-1.0	1.5W	10	191	1	0.06
220714	00:29:51.36	39° 26.06'	110° 17.71'	-3.0	1.8W	13	198	3	0.17
220714	02:03:36.85	39° 25.70'	110° 17.61'	-2.4	1.4W	6	200	3	0.08
220714	02:43:30.63	39° 25.58'	110° 17.83'	-1.7	1.4W	6	199	2	0.07
220714	04:03:55.74	39° 25.26'	110° 16.48'	-3.4	1.5W	8	189	4	0.16
220714	05:02:53.93	39° 25.39'	110° 17.01'	-3.4	1.8W	12	203	4	0.13
220714	05:54:27.60	39° 25.34'	110° 16.61'	-3.4	1.4W	8	169	4	0.15
220714	10:21:57.27	37° 48.82'	113° 05.69'	11.7*	1.4W	19	71	24	0.19
220714	12:57:57.52	37° 04.73'	113° 47.83'	2.7*	1.7W	15	159	14	0.17
220714	14:20:46.95	39° 25.90'	110° 18.95'	-1.0	1.3W	7	178	1	0.04
220714	14:36:54.91	39° 25.42'	110° 16.75'	-3.4	1.4W	6	205	4	0.11
220714	16:07:49.87	39° 25.96'	110° 17.78'	-3.1	2.1W	17	115	3	0.18
220714	16:15:13.19	39° 25.81'	110° 18.31'	-1.4	1.7W	9	183	2	0.15
220714	18:45:49.29	39° 26.06'	110° 19.57'	-1.1	1.5	5	158	1	0.02
220714	20:01:00.84	39° 26.07'	110° 19.75'	-1.1	1.7	5	144	1	0.04
220714	20:15:17.26	39° 25.87'	110° 17.58'	-3.1	2.1W	14	184	3	0.17
220714	23:10:58.33	38° 32.91'	112° 20.77'	6.8	1.3W	8	157	11	0.12
220715	05:04:14.19	36° 57.70'	112° 53.46'	18.1	2.1W	15	144	9	0.11
220715	09:47:06.52	37° 35.87'	113° 18.80'	8.3	1.0W	8	80	7	0.07
220715	10:07:45.85	38° 07.71'	112° 20.19'	3.1*	0.8	8	179	16	0.11
220715	10:21:27.39	37° 35.45'	113° 18.57'	8.1	1.1W	10	79	6	0.04
220715	11:52:10.66	41° 54.16'	112° 21.94'	5.2	1.0	13	139	5	0.14
220715	15:50:26.90	41° 53.62'	112° 22.65'	4.3	1.6	19	130	6	0.18
220715	16:38:07.77	38° 06.68'	112° 34.21'	6.2*	2.0W	30	69	35	0.31
220715	19:00:47.42	39° 25.90'	110° 18.81'	-1.1	1.2W	7	194	1	0.11
220715	21:02:23.73	39° 26.20'	110° 19.66'	-1.0	1.8	5	153	1	0.03
220715	21:33:30.49	40° 44.73'	112° 02.83'	0.9	0.6	8	110	2	0.04
220716	00:29:28.73	39° 26.19'	110° 19.26'	-1.2	1.4	6	179	1	0.07
220716	14:25:20.83	39° 29.74'	112° 02.60'	11.3	1.2W	13	225	17	0.19
220716	17:22:07.44	40° 44.61'	112° 03.07'	1.2	0.7	12	82	2	0.15
220716	22:54:16.83	36° 54.63'	113° 59.18'	8.6*	1.4W	8	259	27	0.06

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220718	04:29:55.39	37° 51.80'	112° 53.91'	17.1	1.3W	8	216	28	0.12
220718	09:59:24.43	40° 45.36'	112° 04.15'	6.5	1.0W	30	58	4	0.18
220718	14:28:18.66	39° 25.65'	110° 17.64'	-2.2	1.4	9	200	3	0.12
220718	16:31:55.73	39° 25.71'	110° 17.38'	-3.0	1.7W	10	201	3	0.16
220718	16:58:10.77	39° 25.90'	110° 17.90'	-2.2	1.9W	16	184	2	0.16
220718	19:14:16.10	39° 25.99'	110° 19.21'	-0.9	2.0	10	187	1	0.10
220718	23:18:55.96	39° 25.57'	110° 18.35'	-1.3	2.0W	17	197	2	0.14
220718	23:49:05.52	39° 26.70'	110° 21.71'	-3.5	1.5W	11	100	4	0.26
220719	01:58:11.15	39° 25.81'	110° 18.17'	-1.7	1.6W	10	197	2	0.13
220719	04:41:10.16	39° 25.56'	110° 17.72'	-2.0	1.6W	10	169	3	0.16
220719	06:07:41.29	39° 25.35'	110° 16.72'	-3.4	1.5	8	187	4	0.12
220719	13:06:40.67	38° 21.44'	111° 05.91'	6.0*	1.4W	13	80	55	0.21
220719	14:10:33.31	39° 25.69'	110° 18.42'	-1.2	1.5W	7	181	2	0.13
220719	14:39:16.23	39° 25.70'	110° 17.61'	-2.5	1.7	7	200	3	0.14
220719	14:55:20.26	39° 25.74'	110° 17.18'	-3.1	2.1W	17	169	3	0.17
220719	17:03:20.85	38° 32.94'	112° 20.25'	2.0*	1.1W	6	160	12	0.07
220719	18:09:36.82	39° 26.20'	110° 18.56'	-1.9	1.9W	18	182	2	0.12
220719	18:16:42.55	39° 25.86'	110° 18.19'	-1.6	1.6W	15	197	2	0.15
220719	20:17:23.85	39° 25.62'	110° 18.12'	-1.4	1.6W	12	197	2	0.15
220719	21:34:13.39	39° 26.07'	110° 19.45'	-1.1	1.4W	10	168	1	0.04
220719	22:17:00.34	39° 25.99'	110° 18.72'	-1.1	1.3W	9	194	2	0.09
220720	01:02:40.70	39° 25.87'	110° 18.83'	-1.0	1.4	7	194	1	0.09
220720	01:45:48.14	39° 25.98'	110° 19.39'	-1.1	1.2W	6	174	1	0.07
220720	02:01:06.41	39° 26.03'	110° 17.30'	-3.0	1.9W	17	185	3	0.20
220720	02:11:20.50	39° 25.58'	110° 17.64'	-2.1	1.6	8	200	3	0.15
220720	02:38:57.00	39° 25.62'	110° 17.79'	-1.8	1.6	7	199	2	0.15
220720	02:58:42.33	41° 07.01'	111° 37.30'	9.4	2.1W	40	76	9	0.21
220720	03:14:19.26	39° 25.95'	110° 18.60'	-1.5	1.4W	9	194	2	0.14
220720	04:47:23.87	39° 25.59'	110° 18.02'	-1.4	1.6	6	198	2	0.14
220720	05:11:22.48	39° 26.03'	110° 18.32'	-1.4	1.7W	13	182	2	0.23
220720	05:49:02.03	39° 25.57'	110° 17.92'	-1.5	1.5	6	199	2	0.14
220720	10:44:37.83	37° 31.84'	113° 22.58'	9.2	0.9W	10	89	3	0.09
220720	14:09:28.32	39° 25.59'	110° 17.65'	-2.1	1.3W	8	200	3	0.15
220720	14:17:12.91	39° 25.90'	110° 18.95'	-1.1	1.4W	8	192	1	0.10
220720	14:56:50.85	39° 25.63'	110° 17.91'	-1.6	1.4W	6	199	2	0.14
220720	15:11:44.87	39° 25.65'	110° 17.84'	-1.8	1.6	7	199	2	0.14
220720	15:22:44.97	39° 25.79'	110° 18.25'	-1.5	1.6W	11	197	2	0.14
220720	15:49:44.78	39° 25.69'	110° 17.50'	-2.6	1.3W	7	200	3	0.14
220720	16:29:08.04	39° 26.05'	110° 18.41'	-1.5	1.5W	12	180	2	0.10
220720	17:23:13.78	39° 26.56'	110° 19.16'	-2.1	1.4	7	177	2	0.05
220720	17:38:40.71	39° 25.68'	110° 18.17'	-1.4	1.9W	18	197	2	0.17
220720	18:48:54.36	39° 25.64'	110° 18.65'	-0.9	1.5W	13	194	1	0.12
220720	19:48:27.06	39° 26.03'	110° 19.73'	-1.0	1.4W	9	145	1	0.03
220720	20:08:02.97	39° 25.62'	110° 18.05'	-1.4	1.3W	11	198	2	0.15

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220720	23:05:18.39	39° 25.97'	110° 18.29'	-1.4	1.7W	16	195	2	0.13
220721	02:20:53.86	39° 25.77'	110° 18.48'	-1.3	1.5W	8	195	2	0.13
220721	04:08:31.61	40° 44.24'	112° 04.68'	8.6	1.1W	33	47	4	0.20
220721	04:21:05.36	40° 44.27'	112° 04.45'	7.9	0.8	26	56	3	0.17
220721	04:51:37.13	39° 25.55'	110° 17.69'	-2.2	1.4	7	200	3	0.15
220721	05:03:01.74	39° 26.06'	110° 18.59'	-1.7	2.2W	24	64	2	0.19
220721	06:45:33.00	39° 25.66'	110° 17.82'	-1.9	1.3W	8	183	2	0.14
220721	07:34:39.53	39° 25.60'	110° 17.44'	-2.5	1.2W	8	201	3	0.16
220721	14:23:43.31	40° 44.40'	112° 02.84'	8.5	0.6	11	107	2	0.06
220721	19:25:44.10	39° 25.86'	110° 18.68'	-1.0	1.3W	14	167	1	0.09
220721	19:47:52.73	39° 25.90'	110° 18.58'	-1.2	1.5W	10	194	2	0.11
220721	20:47:48.24	39° 25.92'	110° 18.32'	-1.6	1.8W	11	181	2	0.12
220722	00:21:46.63	39° 25.71'	110° 17.43'	-2.7	1.3W	9	185	3	0.12
220722	04:36:21.01	39° 25.82'	110° 18.68'	-1.1	1.6W	18	179	1	0.15
220722	05:15:33.69	37° 37.68'	113° 23.01'	5.3	1.1W	10	85	9	0.14
220722	05:58:29.67	39° 25.20'	110° 16.26'	-3.4	1.3W	6	208	5	0.20
220722	06:01:28.26	39° 25.68'	110° 18.03'	-1.8	1.7W	14	183	2	0.14
220722	06:26:46.94	41° 15.73'	111° 48.93'	12.1	0.8	32	66	9	0.16
220722	17:17:11.24	38° 44.01'	112° 26.82'	6.9*	1.9W	20	61	14	0.26
220723	01:22:43.02	40° 21.40'	111° 27.85'	7.0*	0.8	11	232	23	0.16
220723	23:36:08.84	41° 47.76'	112° 44.61'	4.9	2.0W	24	149	3	0.12
220724	19:56:28.65	39° 26.00'	110° 18.28'	-1.6	1.3W	15	195	2	0.11
220725	14:16:01.58	39° 25.73'	110° 18.34'	-1.3	1.3W	9	196	2	0.14
220725	14:37:22.02	39° 25.70'	110° 17.62'	-2.0	1.8W	16	185	3	0.17
220725	15:01:11.99	39° 25.63'	110° 17.72'	-1.9	1.1	8	200	3	0.15
220725	15:12:21.39	39° 25.80'	110° 17.67'	-2.2	1.6W	14	185	3	0.15
220725	16:37:03.24	39° 26.13'	110° 17.56'	-3.3	1.7W	13	184	3	0.20
220725	16:58:51.52	39° 25.62'	110° 17.94'	-1.5	1.2W	6	199	2	0.16
220725	18:07:02.19	39° 25.57'	110° 17.85'	-1.7	1.2W	7	199	2	0.15
220725	19:02:03.83	39° 25.86'	110° 18.77'	-1.0	1.8	7	194	1	0.06
220725	19:12:40.22	39° 25.66'	110° 18.53'	-1.1	1.5	8	195	1	0.14
220725	19:21:59.07	38° 35.31'	112° 34.66'	1.4*	1.0	13	172	12	0.09
220725	19:43:08.21	39° 25.62'	110° 18.33'	-1.2	1.2W	7	197	2	0.14
220725	19:45:33.86	39° 25.73'	110° 18.07'	-1.6	1.3W	11	184	2	0.15
220725	20:33:25.53	39° 26.00'	110° 18.93'	-1.0	1.2	6	192	1	0.07
220725	22:46:14.29	39° 26.14'	110° 18.46'	-1.8	1.4W	12	179	2	0.12
220725	23:45:32.74	39° 25.80'	110° 17.47'	-2.8	1.8W	16	185	3	0.16
220725	23:58:25.12	39° 25.66'	110° 16.86'	-3.4	1.8W	16	186	4	0.19
220726	13:37:33.68	41° 27.40'	112° 39.33'	0.3*	1.3W	17	137	22	0.11
220726	15:36:56.76	39° 25.92'	110° 18.67'	-1.2	1.5W	9	194	1	0.10
220726	15:43:50.88	39° 25.61'	110° 18.10'	-1.5	1.2W	6	197	2	0.14
220726	18:52:09.78	39° 25.94'	110° 18.70'	-1.2	1.5W	9	194	1	0.10
220726	21:39:29.75	38° 51.55'	109° 20.08'	5.9*	1.2W	10	169	46	0.18
220727	15:09:04.01	41° 27.04'	112° 39.16'	1.3*	1.1W	18	136	21	0.12
220727	19:12:00.90	39° 26.25'	110° 20.10'	-2.0	1.5	7	138	2	0.05

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220727	20:53:35.35	41° 27.34'	112° 40.20'	1.3*	0.8W	16	139	23	0.20
220727	21:07:51.33	39° 25.91'	110° 18.86'	-1.1	1.5W	9	192	1	0.11
220727	21:17:54.80	39° 26.10'	110° 19.86'	-1.2	1.1W	5	139	1	0.03
220727	21:24:48.20	39° 25.72'	110° 18.22'	-1.5	1.5	9	197	2	0.14
220727	21:31:55.96	39° 25.88'	110° 19.01'	-1.0	1.2W	6	192	1	0.09
220727	21:44:55.11	39° 25.78'	110° 17.66'	-3.5	2.0W	15	184	3	0.18
220728	00:37:49.10	39° 25.88'	110° 18.77'	-1.1	1.5	7	194	1	0.11
220728	01:55:10.79	39° 25.85'	110° 17.72'	-2.1	1.7W	19	169	3	0.17
220728	02:22:32.81	39° 25.92'	110° 19.22'	-1.0	1.4	5	190	1	0.03
220728	03:13:43.89	39° 25.57'	110° 17.44'	-2.4	1.3W	9	201	3	0.16
220728	04:22:49.07	38° 36.16'	112° 38.18'	0.5*	0.6	10	187	16	0.03
220728	04:47:03.27	39° 25.61'	110° 17.96'	-1.8	1.5W	7	183	2	0.08
220728	05:24:34.60	39° 25.56'	110° 18.15'	-1.6	1.6W	11	197	2	0.13
220728	05:38:43.92	39° 25.54'	110° 17.72'	-2.0	1.3W	7	185	3	0.08
220728	06:11:41.91	39° 25.28'	110° 16.46'	-3.4	1.5W	7	189	4	0.18
220728	08:22:35.94	38° 35.36'	112° 37.94'	0.8*	0.9W	13	79	16	0.21
220728	14:00:20.29	39° 26.80'	110° 21.28'	-2.6	1.6W	9	114	4	0.21
220728	14:19:08.89	39° 25.77'	110° 17.76'	-2.1	1.8W	14	199	3	0.17
220728	14:33:49.18	39° 25.85'	110° 18.62'	-1.1	1.2W	8	194	1	0.09
220728	14:36:18.34	40° 41.44'	111° 30.68'	12.0	1.0W	30	62	7	0.19
220728	15:04:40.33	39° 40.58'	111° 52.87'	6.9*	1.3W	8	134	20	0.20
220728	16:00:27.51	37° 34.37'	112° 31.87'	6.0*	1.6W	14	128	49	0.26
220728	16:17:03.69	39° 25.82'	110° 17.67'	-2.3	1.4W	11	184	3	0.16
220728	17:45:52.42	39° 25.51'	110° 17.70'	-1.9	1.7W	13	200	3	0.16
220728	17:59:48.73	39° 25.82'	110° 18.50'	-1.3	1.3W	8	195	2	0.11
220728	19:35:48.44	39° 26.05'	110° 19.61'	-1.0	1.5	8	155	1	0.03
220728	20:11:01.73	39° 25.11'	110° 17.29'	-2.7	1.6	9	203	3	0.22
220728	21:24:22.09	39° 25.64'	110° 18.41'	-1.1	1.5W	12	181	2	0.15
220728	21:44:29.31	39° 25.86'	110° 18.16'	-1.7	2.2W	13	182	2	0.16
220728	22:14:50.07	39° 25.62'	110° 17.89'	-1.9	1.2W	7	199	2	0.14
220728	23:53:15.21	39° 25.68'	110° 17.50'	-2.6	1.7W	10	184	3	0.16
220728	23:56:00.81	39° 25.65'	110° 17.94'	-1.7	1.3W	7	198	2	0.14
220729	00:04:47.31	39° 25.54'	110° 17.61'	-2.1	1.6W	7	200	3	0.15
220729	00:27:12.50	39° 25.66'	110° 17.30'	-2.9	1.2W	7	202	3	0.15
220729	02:05:20.30	39° 25.62'	110° 18.14'	-1.6	1.5W	9	197	2	0.12
220729	02:07:46.81	39° 25.24'	110° 16.27'	-3.4	1.3W	6	208	5	0.20
220729	03:40:47.15	39° 25.69'	110° 17.77'	-2.1	1.6W	8	199	3	0.14
220729	04:06:41.79	39° 25.62'	110° 17.40'	-2.9	1.6W	11	201	3	0.13
220729	04:26:28.22	39° 25.17'	110° 16.38'	-3.4	1.4W	7	208	5	0.17
220729	04:59:39.78	39° 25.63'	110° 17.36'	-3.5	1.8W	15	185	3	0.17
220729	05:39:13.08	39° 25.69'	110° 18.27'	-1.4	0.8	6	197	2	0.02
220729	05:47:16.26	39° 25.24'	110° 16.79'	-3.4	1.2W	6	205	4	0.22
220729	06:26:45.37	39° 25.30'	110° 16.78'	-3.4	1.5W	6	205	4	0.12
220729	06:42:49.24	39° 25.19'	110° 16.08'	-3.4	1.4W	6	209	5	0.21

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220729	06:56:24.70	39° 25.72'	110° 18.22'	-1.4	1.4	5	197	2	0.06
220729	07:08:19.74	39° 25.70'	110° 18.19'	-1.7	1.2W	10	197	2	0.13
220729	07:22:07.15	39° 25.25'	110° 16.41'	-3.4	1.4W	6	208	4	0.16
220729	07:41:55.03	39° 25.19'	110° 16.27'	-3.4	1.3W	6	208	5	0.18
220729	12:04:48.01	39° 25.46'	110° 17.05'	-3.5	1.5	7	203	4	0.10
220729	18:59:37.57	39° 25.84'	110° 18.95'	-0.9	1.1W	7	192	1	0.10
220729	23:54:02.77	39° 26.26'	110° 19.76'	-1.2	1.1	6	148	2	0.02
220730	03:57:27.40	37° 02.56'	112° 59.71'	17.3	2.1W	22	124	16	0.19
220730	06:28:33.49	40° 41.69'	111° 30.59'	11.1	0.9W	23	79	7	0.16
220730	07:39:28.65	38° 52.90'	109° 19.13'	6.0*	1.6	9	108	46	0.07
220730	10:35:13.55	36° 53.58'	111° 49.49'	23.1	2.0W	14	78	32	0.16
220730	23:21:38.73	38° 10.39'	113° 06.92'	4.5*	0.7	8	238	13	0.14
220731	22:54:13.02	39° 26.08'	110° 19.27'	-1.1	1.6	6	181	1	0.07
220801	14:42:20.36	39° 25.68'	110° 17.46'	-2.5	1.3	7	201	3	0.15
220801	15:12:54.04	39° 25.59'	110° 18.04'	-1.5	1.5W	12	198	2	0.16
220801	15:46:19.01	39° 25.66'	110° 17.71'	-2.1	1.5W	8	200	3	0.13
220801	16:09:19.86	39° 25.97'	110° 19.46'	-1.2	1.8W	21	112	1	0.19
220801	19:00:48.32	39° 25.84'	110° 19.11'	-0.9	1.2W	9	192	1	0.10
220801	19:12:12.87	39° 25.89'	110° 18.87'	-1.0	1.6	9	192	1	0.11
220801	19:22:23.96	39° 25.79'	110° 18.48'	-1.1	1.3W	12	195	2	0.11
220801	19:58:48.50	39° 25.63'	110° 18.37'	-1.4	2.0W	19	181	2	0.15
220801	23:01:25.86	39° 25.32'	110° 16.84'	-3.4	1.8	6	205	4	0.11
220801	23:35:45.87	39° 25.14'	110° 16.13'	-3.4	1.5W	7	209	5	0.21
220802	00:42:45.37	39° 25.56'	110° 18.13'	-1.4	1.4W	11	197	2	0.14
220802	00:54:55.35	39° 25.39'	110° 18.16'	-1.2	1.3W	8	197	2	0.14
220802	02:02:08.06	39° 25.60'	110° 18.14'	-1.3	1.3W	7	184	2	0.08
220802	03:30:00.05	39° 42.03'	110° 42.91'	5.8*	1.1	5	141	15	0.02
220802	03:57:07.36	39° 25.60'	110° 17.48'	-3.2	2.0W	16	185	3	0.15
220802	04:09:44.99	39° 25.19'	110° 16.05'	-3.5	1.5W	9	171	5	0.22
220802	04:39:55.94	39° 25.19'	110° 16.36'	-3.4	1.5	6	208	5	0.20
220802	05:26:05.25	39° 25.19'	110° 16.09'	-3.4	1.4W	6	209	5	0.21
220802	05:55:25.20	39° 25.21'	110° 16.43'	-3.4	1.5W	7	208	4	0.18
220802	05:56:38.05	39° 25.61'	110° 17.33'	-3.3	1.5	6	202	3	0.08
220802	07:08:43.64	39° 55.09'	111° 16.89'	16.7	1.0W	10	74	32	0.11
220802	09:17:06.29	39° 25.40'	110° 16.83'	-3.3	1.3W	8	187	4	0.12
220802	17:45:51.80	39° 25.70'	110° 18.27'	-1.3	1.7W	16	197	2	0.17
220802	18:35:46.50	41° 27.13'	112° 38.88'	7.8*	0.8W	13	135	21	0.10
220802	18:59:48.36	39° 25.70'	110° 17.77'	-2.1	2.1W	17	199	3	0.17
220802	20:13:39.24	39° 25.57'	110° 18.01'	-1.5	1.5W	10	183	2	0.14
220802	20:47:31.50	39° 25.83'	110° 18.98'	-0.9	1.6W	11	192	1	0.10
220803	00:07:47.96	39° 25.60'	110° 17.75'	-2.0	1.6W	7	200	3	0.14
220803	00:38:03.13	39° 25.84'	110° 18.31'	-1.6	2.0W	18	181	2	0.15
220803	03:24:32.09	38° 22.82'	111° 05.72'	3.9*	1.1W	14	101	53	0.24
220803	03:27:37.01	39° 25.92'	110° 18.74'	-1.2	1.6W	21	179	1	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220803	03:35:36.02	39° 26.15'	110° 19.28'	-1.3	1.6	13	179	1	0.08
220803	04:15:12.33	39° 25.66'	110° 18.04'	-1.5	1.7	7	198	2	0.13
220803	04:48:48.32	39° 25.58'	110° 17.91'	-1.8	1.4W	7	199	2	0.14
220803	04:51:40.75	39° 25.70'	110° 17.81'	-2.1	1.4W	8	183	2	0.14
220803	05:14:53.17	39° 25.59'	110° 17.83'	-1.8	1.3W	7	199	2	0.15
220803	05:54:22.61	39° 25.66'	110° 17.39'	-2.8	1.3W	7	201	3	0.14
220803	05:58:19.65	39° 25.43'	110° 16.16'	-3.3	1.4	6	230	5	0.20
220803	06:32:20.09	39° 25.58'	110° 17.75'	-1.9	1.6	7	200	3	0.14
220803	06:35:42.48	38° 37.52'	112° 32.80'	1.1	1.7W	18	104	9	0.11
220803	08:20:53.14	37° 39.82'	113° 06.34'	9.8	1.3W	12	91	2	0.08
220803	09:06:38.06	39° 25.39'	110° 18.78'	-1.5	1.3W	12	179	1	0.11
220803	12:43:31.76	39° 25.41'	110° 17.12'	-3.3	1.5	7	203	3	0.12
220803	14:21:31.45	39° 24.98'	110° 18.17'	-0.9	1.2W	10	199	2	0.14
220803	14:36:32.79	39° 25.54'	110° 18.01'	-1.6	1.6W	8	183	2	0.14
220803	14:54:56.71	39° 25.74'	110° 17.67'	-2.5	1.6W	9	184	3	0.14
220803	16:15:29.61	39° 25.63'	110° 18.06'	-1.5	1.4W	15	182	2	0.14
220803	17:43:03.81	39° 25.89'	110° 19.02'	-1.0	1.6W	11	178	1	0.09
220803	19:55:20.70	39° 25.68'	110° 18.19'	-1.3	1.7W	17	168	2	0.15
220803	21:10:38.62	39° 25.65'	110° 18.02'	-1.5	1.7	8	198	2	0.14
220803	21:43:43.58	39° 26.12'	110° 19.42'	-1.1	1.6	8	170	1	0.03
220803	22:27:37.26	39° 26.27'	110° 20.04'	-1.5	1.4W	12	134	2	0.11
220803	22:48:04.06	37° 31.77'	114° 03.93'	10.1	1.8W	14	159	20	0.24
220804	00:05:14.19	39° 25.95'	110° 19.04'	-1.0	1.2W	13	178	1	0.14
220804	00:15:51.86	39° 25.71'	110° 18.03'	-1.8	1.5W	8	182	2	0.14
220804	01:50:02.03	39° 25.53'	110° 17.66'	-1.9	1.4	6	200	3	0.08
220804	02:20:01.31	39° 25.64'	110° 18.04'	-1.8	1.6W	10	183	2	0.13
220804	03:44:14.64	39° 25.66'	110° 17.84'	-1.9	1.8	8	169	2	0.08
220804	04:17:43.03	39° 25.51'	110° 17.69'	-2.0	1.7	6	200	3	0.09
220804	04:48:19.61	39° 25.76'	110° 18.39'	-1.4	1.3W	6	181	2	0.11
220804	06:03:54.47	39° 25.82'	110° 18.41'	-1.5	1.8W	11	195	2	0.11
220804	09:44:58.65	40° 50.43'	111° 31.89'	12.0	0.9W	17	90	9	0.06
220804	15:05:08.91	39° 25.64'	110° 17.79'	-1.8	1.5W	12	183	2	0.14
220804	16:40:35.79	39° 25.90'	110° 18.73'	-1.2	1.5W	8	179	1	0.11
220804	17:26:20.71	39° 25.63'	110° 18.17'	-1.3	1.3W	10	197	2	0.15
220804	19:00:58.40	39° 25.99'	110° 19.05'	-1.0	1.2W	13	192	1	0.06
220804	19:06:00.89	39° 25.70'	110° 17.79'	-1.9	1.3W	14	183	3	0.14
220804	19:37:45.04	39° 25.94'	110° 19.00'	-1.0	1.4	10	192	1	0.09
220804	19:43:59.82	39° 25.57'	110° 18.04'	-1.5	1.9W	14	198	2	0.15
220804	20:37:10.81	39° 25.91'	110° 19.55'	-0.9	1.5	9	158	1	0.03
220804	20:45:33.43	39° 25.95'	110° 19.10'	-1.0	1.2W	8	191	1	0.07
220804	20:58:21.63	39° 25.61'	110° 17.86'	-1.8	1.6W	14	199	2	0.14
220804	21:38:33.15	39° 26.00'	110° 19.64'	-0.9	1.8	9	152	1	0.05
220804	21:41:17.85	39° 26.01'	110° 19.43'	-1.0	1.3	8	170	1	0.04
220804	21:49:32.27	39° 25.91'	110° 19.42'	-0.8	1.4W	11	173	1	0.04

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220804	23:46:10.96	39° 25.70'	110° 18.48'	-1.3	1.4W	8	195	2	0.15
220805	00:25:41.97	39° 25.74'	110° 17.52'	-2.5	1.3W	7	200	3	0.14
220805	01:12:02.90	39° 25.22'	110° 16.62'	-3.3	1.6W	5	206	4	0.16
220805	02:22:46.80	39° 25.54'	110° 17.96'	-1.7	1.6	5	199	2	0.06
220805	02:28:23.17	39° 25.18'	110° 16.48'	-3.4	1.6W	7	207	4	0.16
220805	03:15:40.25	39° 25.73'	110° 17.92'	-2.0	1.7W	11	198	2	0.14
220805	04:24:22.65	39° 25.17'	110° 16.41'	-3.4	1.6W	6	208	4	0.18
220805	04:51:07.63	39° 25.19'	110° 16.52'	-3.4	1.2W	7	207	4	0.14
220805	04:54:58.13	39° 25.36'	110° 17.07'	-3.4	1.3W	6	203	4	0.09
220805	05:12:59.86	39° 25.62'	110° 17.95'	-1.7	1.6W	19	183	2	0.14
220805	05:28:05.17	39° 25.78'	110° 18.32'	-1.5	1.6W	15	196	2	0.09
220805	06:40:56.67	41° 21.73'	111° 44.45'	3.2*	1.3W	31	60	21	0.15
220805	06:43:26.58	39° 25.18'	110° 15.58'	-3.5	1.2W	7	190	6	0.19
220805	11:54:16.16	39° 25.20'	110° 16.64'	-3.4	1.4W	5	206	4	0.13
220805	15:07:06.37	39° 25.27'	110° 17.08'	-3.4	1.7W	10	204	4	0.16
220805	16:15:29.37	39° 26.02'	110° 19.51'	-1.0	1.0	5	164	1	0.03
220805	17:12:22.40	39° 25.54'	110° 18.21'	-1.4	1.5W	10	182	2	0.14
220805	17:59:59.79	39° 25.81'	110° 18.67'	-1.0	1.2W	10	179	1	0.10
220805	18:51:03.33	39° 25.90'	110° 19.57'	-0.9	1.4W	8	156	1	0.04
220805	22:09:23.57	39° 25.57'	110° 18.21'	-1.2	1.5W	11	182	2	0.14
220805	22:52:55.72	39° 25.79'	110° 18.61'	-1.2	1.7W	16	179	1	0.13
220805	23:20:52.02	39° 25.69'	110° 18.52'	-1.2	1.5W	8	195	1	0.14
220805	23:47:55.59	39° 25.77'	110° 17.76'	-2.8	1.3W	10	199	3	0.16
220806	00:34:54.56	39° 25.86'	110° 18.38'	-1.6	1.5W	12	195	2	0.15
220806	00:47:20.15	39° 25.68'	110° 18.39'	-1.2	1.5W	11	196	2	0.14
220806	00:59:54.29	39° 25.74'	110° 17.89'	-2.0	1.1W	9	198	2	0.15
220806	05:35:19.79	39° 25.20'	110° 16.37'	-3.4	1.5W	7	190	5	0.19
220807	07:54:02.97	39° 27.37'	111° 12.35'	3.2*	1.5W	14	58	18	0.09
220807	09:47:23.79	39° 25.94'	110° 18.12'	-2.7	1.3	7	197	2	0.09
220807	10:55:44.97	40° 44.46'	112° 03.90'	9.1	0.1	13	105	3	0.09
220807	10:55:50.47	40° 44.30'	112° 03.75'	9.2	0.9	14	104	3	0.07
220807	21:54:28.08	40° 44.24'	112° 03.41'	8.7	0.7	8	104	2	0.07
220808	04:05:05.73	39° 25.67'	110° 17.33'	-3.5	1.4W	7	202	3	0.10
220808	09:02:01.65	39° 25.23'	110° 16.71'	-3.4	1.0	6	206	4	0.12
220808	10:29:40.13	38° 54.70'	111° 55.09'	12.5	1.1W	14	86	16	0.08
220808	15:11:09.97	39° 25.57'	110° 17.77'	-2.0	1.5W	8	200	3	0.15
220808	15:55:40.88	39° 25.53'	110° 17.12'	-3.0	1.9W	13	203	3	0.18
220809	03:45:36.39	39° 25.64'	110° 17.63'	-2.5	1.5W	17	184	3	0.14
220809	05:19:58.31	39° 25.49'	110° 18.00'	-1.7	1.4W	12	183	2	0.13
220809	06:51:37.88	39° 25.34'	110° 17.58'	-2.2	1.6	10	184	3	0.11
220809	07:22:37.51	39° 25.71'	110° 18.09'	-1.5	1.3W	10	182	2	0.07
220809	07:35:06.22	39° 25.50'	110° 17.45'	-2.7	1.6W	11	202	3	0.14
220809	15:18:06.09	39° 25.91'	110° 19.23'	-0.9	1.7W	15	177	1	0.08
220809	16:23:45.08	39° 25.58'	110° 18.13'	-1.5	1.4W	10	182	2	0.15

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220809	18:04:54.74	39° 25.68'	110° 18.38'	-1.2	1.5W	14	181	2	0.15
220809	18:09:36.27	37° 43.20'	112° 54.69'	17.8	1.4W	15	114	21	0.15
220809	18:37:58.45	39° 25.72'	110° 18.06'	-1.6	1.6	11	182	2	0.15
220809	19:08:35.38	39° 25.93'	110° 19.09'	-1.1	1.6W	12	178	1	0.07
220809	19:40:05.16	38° 12.36'	112° 37.40'	8.5	1.5W	25	78	8	0.18
220809	20:33:05.26	39° 25.83'	110° 18.83'	-0.9	1.3W	13	179	1	0.11
220809	21:38:08.30	39° 25.75'	110° 18.85'	-0.9	1.4	9	194	1	0.10
220809	23:05:11.95	39° 25.79'	110° 18.73'	-0.9	1.2W	11	179	1	0.09
220809	23:36:09.76	39° 25.68'	110° 18.49'	-1.2	1.4W	16	180	2	0.16
220810	00:13:36.07	39° 25.67'	110° 17.85'	-2.0	1.8W	18	169	2	0.15
220810	00:19:05.37	39° 25.93'	110° 18.03'	-2.3	1.6W	10	197	2	0.15
220810	00:30:44.34	39° 26.06'	110° 19.26'	-1.1	1.2W	7	182	1	0.09
220810	01:37:42.83	39° 25.50'	110° 17.74'	-2.2	1.2W	9	200	3	0.14
220810	01:59:51.48	39° 25.77'	110° 17.75'	-2.5	1.6	7	183	3	0.12
220810	03:33:08.52	39° 25.62'	110° 18.31'	-1.4	1.3W	9	197	2	0.09
220810	03:50:51.64	39° 25.64'	110° 17.91'	-1.8	1.5	5	199	2	0.05
220810	04:00:43.66	37° 50.88'	113° 10.90'	10.6*	2.1W	24	106	24	0.14
220810	04:36:06.61	39° 25.70'	110° 17.73'	-2.1	1.1W	6	200	3	0.08
220810	05:12:10.29	39° 25.54'	110° 17.64'	-2.2	1.3W	7	200	3	0.08
220810	05:30:15.30	39° 25.59'	110° 18.27'	-1.4	1.5W	8	197	2	0.11
220810	05:33:12.14	39° 25.94'	110° 18.58'	-1.6	1.9W	12	194	2	0.12
220810	17:53:53.37	39° 25.67'	110° 18.12'	-1.5	1.7	11	182	2	0.14
220810	18:04:34.43	39° 25.60'	110° 18.22'	-1.4	1.5W	13	182	2	0.15
220810	19:57:57.54	39° 25.67'	110° 18.25'	-1.5	1.4W	11	182	2	0.15
220810	20:31:24.12	39° 25.79'	110° 17.92'	-2.2	2.2W	20	169	2	0.17
220811	02:00:24.61	39° 25.26'	110° 16.53'	-3.4	1.6W	8	206	4	0.17
220811	02:06:52.36	39° 25.22'	110° 16.53'	-3.4	1.5W	8	207	4	0.17
220811	02:15:52.13	39° 25.52'	110° 17.60'	-2.2	1.4W	7	200	3	0.09
220811	04:40:43.44	39° 25.51'	110° 17.47'	-2.7	1.7	6	201	3	0.08
220811	06:01:25.62	39° 25.22'	110° 16.32'	-3.4	1.6W	7	208	5	0.17
220811	06:15:59.97	39° 25.42'	110° 16.89'	-3.4	1.4W	6	205	4	0.10
220811	06:38:34.25	39° 25.17'	110° 16.52'	-3.4	1.9W	6	207	4	0.16
220811	06:47:41.02	41° 44.95'	112° 47.64'	7.1	1.1	16	219	4	0.16
220811	12:39:54.71	38° 37.23'	112° 32.81'	2.8	1.6W	16	66	9	0.20
220811	12:42:32.44	38° 37.36'	112° 32.73'	-0.2	1.6W	19	192	9	0.12
220811	14:33:03.67	38° 31.26'	112° 44.43'	0.7	1.0W	13	154	10	0.08
220811	14:33:13.26	39° 26.86'	110° 22.14'	-3.5	0.8	5	150	5	0.25
220811	14:33:30.78	39° 26.56'	110° 21.53'	-3.3	1.2	5	146	4	0.13
220811	17:06:04.02	39° 25.87'	110° 18.38'	-1.5	1.4W	10	181	2	0.17
220811	17:18:16.38	39° 25.61'	110° 18.18'	-1.2	1.4W	11	182	2	0.17
220811	18:48:18.59	37° 33.69'	113° 03.68'	12.2	1.4W	20	60	4	0.15
220811	18:53:44.93	37° 33.83'	113° 04.02'	13.6	1.9W	24	50	4	0.16
220811	19:01:53.61	39° 25.83'	110° 18.91'	-1.1	1.5W	11	178	1	0.10
220811	19:31:46.59	39° 25.90'	110° 18.88'	-1.0	1.4W	11	178	1	0.07

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220811	19:54:13.53	39° 25.99'	110° 18.84'	-1.1	1.3W	12	178	1	0.12
220811	21:23:46.94	39° 25.68'	110° 18.41'	-1.3	1.8W	12	181	2	0.15
220811	22:48:18.42	38° 38.06'	112° 32.57'	1.9	2.1W	25	57	9	0.19
220811	23:30:39.46	39° 25.85'	110° 18.87'	-1.0	1.5	6	193	1	0.10
220812	00:07:57.78	39° 25.76'	110° 18.34'	-1.2	1.5	7	196	2	0.13
220812	01:10:33.72	39° 25.79'	110° 18.75'	-1.1	1.3W	8	194	1	0.09
220812	03:07:01.96	39° 25.67'	110° 17.91'	-2.0	1.4W	9	199	2	0.15
220812	03:58:07.93	39° 25.52'	110° 17.88'	-1.6	1.4	6	199	2	0.15
220812	04:24:49.03	39° 25.41'	110° 17.71'	-2.0	1.6W	11	200	3	0.18
220812	05:51:15.08	39° 25.92'	110° 18.48'	-1.5	1.4W	10	195	2	0.11
220812	06:25:14.96	39° 25.85'	110° 18.00'	-1.7	1.5W	12	197	2	0.15
220812	06:34:38.66	39° 25.62'	110° 17.43'	-2.8	1.3W	7	201	3	0.15
220812	21:01:52.43	39° 25.87'	110° 18.75'	-1.1	1.4W	8	194	1	0.10
220813	04:09:10.56	38° 29.12'	112° 50.49'	-0.4	0.6	16	194	3	0.07
220813	19:07:49.31	39° 25.79'	110° 18.67'	-1.1	1.3W	10	194	1	0.10
220814	04:33:24.50	37° 03.28'	113° 29.63'	18.4	1.2W	12	164	5	0.09
220814	22:43:27.07	38° 35.82'	112° 36.75'	0.8*	1.5W	20	115	14	0.06
220814	23:08:14.78	38° 35.74'	112° 36.67'	3.1*	1.5W	21	64	14	0.08
220815	03:04:17.80	41° 54.45'	112° 22.86'	6.0	0.7	11	98	5	0.13
220815	10:31:53.55	39° 25.76'	110° 18.38'	-1.5	1.6W	18	181	2	0.16
220815	11:46:47.33	39° 25.56'	110° 16.89'	-3.4	1.2W	9	186	4	0.16
220815	11:53:06.48	39° 25.74'	110° 18.30'	-1.4	1.2W	16	181	2	0.16
220815	16:25:48.59	39° 25.93'	110° 19.59'	-1.0	1.2W	6	155	1	0.04
220815	16:28:09.81	37° 59.51'	112° 28.79'	5.1*	1.8W	28	50	27	0.28
220815	16:51:25.00	39° 25.75'	110° 17.70'	-2.2	2.0W	16	184	3	0.17
220815	20:37:46.42	39° 25.59'	110° 18.13'	-1.5	1.5W	12	182	2	0.17
220815	20:49:51.21	39° 25.70'	110° 18.45'	-1.1	1.3W	13	195	2	0.11
220815	21:11:19.49	39° 25.99'	110° 18.78'	-1.0	1.6	11	194	1	0.09
220815	21:26:31.14	39° 25.77'	110° 18.96'	-0.9	1.4	6	192	1	0.10
220815	21:27:35.43	39° 25.87'	110° 18.69'	-1.1	1.4	7	194	1	0.06
220816	01:22:23.13	39° 25.59'	110° 17.44'	-2.8	1.4W	12	169	3	0.14
220816	01:31:37.91	39° 25.50'	110° 17.42'	-2.4	1.2W	8	186	3	0.15
220816	03:14:22.74	39° 25.47'	110° 17.41'	-3.0	1.4W	13	202	3	0.15
220816	03:32:57.57	39° 25.61'	110° 17.86'	-1.9	1.2	6	199	2	0.15
220816	03:44:09.05	38° 07.61'	112° 35.83'	3.6*	1.0	22	64	35	0.21
220816	13:50:29.31	41° 53.83'	112° 22.96'	4.1	0.4	7	128	6	0.02
220816	14:30:07.25	39° 25.56'	110° 17.92'	-1.8	1.6W	7	199	2	0.16
220816	15:54:13.52	39° 25.86'	110° 18.53'	-1.2	1.3W	12	195	2	0.10
220816	16:20:22.02	39° 25.51'	110° 17.41'	-2.7	1.4W	8	202	3	0.15
220816	16:27:40.29	41° 14.94'	111° 37.22'	1.3*	1.6W	26	48	22	0.14
220816	16:38:46.11	39° 25.81'	110° 17.86'	-2.7	1.8W	15	183	2	0.15
220816	18:07:26.77	39° 25.92'	110° 19.34'	-0.8	1.4	8	180	1	0.04
220816	22:49:02.26	39° 25.69'	110° 18.26'	-1.4	1.7W	17	182	2	0.13
220816	23:29:36.50	37° 14.54'	113° 14.82'	17.9	0.8W	14	85	9	0.18
220817	00:29:10.63	39° 25.74'	110° 17.96'	-1.8	1.5W	19	183	2	0.17

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220817	01:17:47.50	39° 25.74'	110° 18.15'	-1.5	1.2W	11	182	2	0.15
220817	02:24:46.51	39° 25.70'	110° 18.39'	-1.3	1.4W	17	181	2	0.15
220817	04:11:17.01	39° 25.64'	110° 17.83'	-2.1	2.0W	22	183	2	0.16
220817	04:54:56.84	39° 25.58'	110° 17.77'	-2.1	1.4W	7	200	3	0.16
220817	05:41:37.89	39° 25.62'	110° 17.26'	-3.3	1.4	8	202	3	0.15
220817	05:42:16.16	39° 25.64'	110° 17.41'	-2.8	1.7	7	201	3	0.14
220817	06:21:50.11	39° 25.64'	110° 17.82'	-2.1	1.5W	8	183	2	0.15
220817	06:57:18.58	39° 25.72'	110° 18.13'	-1.5	1.1W	7	197	2	0.14
220817	06:58:00.72	39° 26.00'	110° 19.93'	-1.2	1.4	5	137	1	0.02
220817	07:21:14.13	39° 25.58'	110° 17.25'	-2.9	1.6	8	202	3	0.14
220817	08:13:53.70	38° 28.94'	112° 50.66'	-0.3	0.6	25	192	1	0.21
220817	08:14:54.55	38° 28.94'	112° 50.80'	-0.2	0.7W	23	99	1	0.16
220817	08:15:44.28	38° 29.04'	112° 50.69'	-0.9	--	17	191	1	0.14
220817	08:15:46.97	38° 28.86'	112° 50.69'	-1.5	0.3	19	190	1	0.18
220817	08:15:53.25	38° 28.95'	112° 50.01'	-2.2	0.5	17	204	2	0.15
220817	12:19:01.49	38° 28.44'	112° 51.16'	0.1	-0.7	12	177	3	0.08
220817	15:27:01.34	39° 26.12'	110° 19.25'	-1.3	1.4W	11	177	1	0.11
220817	15:51:18.20	39° 25.79'	110° 17.87'	-2.3	1.7W	12	198	2	0.16
220817	19:35:47.84	39° 25.95'	110° 19.33'	-1.0	1.6W	11	177	1	0.06
220817	20:32:33.96	39° 25.89'	110° 18.36'	-1.5	1.6W	11	181	2	0.12
220817	22:18:05.05	40° 44.99'	112° 03.79'	8.7	1.3W	29	57	3	0.12
220817	22:43:56.92	39° 25.69'	110° 17.72'	-2.0	1.4W	8	200	3	0.15
220818	02:19:08.70	39° 25.48'	110° 18.14'	-1.5	1.5	11	182	2	0.15
220818	02:19:56.33	39° 25.95'	110° 19.19'	-0.9	1.1	8	191	1	0.05
220818	02:53:21.54	39° 25.52'	110° 17.06'	-3.2	1.7W	11	186	4	0.15
220818	04:00:51.84	39° 25.70'	110° 18.44'	-1.3	1.2W	8	196	2	0.14
220818	04:03:20.54	41° 54.23'	112° 24.86'	0.5	0.4	7	119	8	0.09
220818	05:07:14.18	39° 25.59'	110° 17.65'	-2.2	1.2W	8	200	3	0.14
220818	05:23:54.60	39° 25.69'	110° 17.56'	-2.4	1.3W	8	200	3	0.15
220818	05:31:43.41	39° 25.75'	110° 17.57'	-2.5	1.3	9	200	3	0.13
220818	05:46:40.75	39° 25.44'	110° 16.37'	-3.3	1.6W	12	208	5	0.21
220818	06:12:42.48	39° 25.62'	110° 17.57'	-2.3	1.5W	14	200	3	0.16
220818	12:17:18.83	38° 52.58'	109° 18.82'	11.1*	1.8W	21	98	46	0.15
220818	13:55:53.29	38° 28.50'	112° 50.67'	0.2	-0.2	11	192	3	0.05
220818	14:45:41.40	39° 25.80'	110° 17.67'	-2.7	1.7W	12	200	3	0.16
220818	15:54:36.54	39° 25.55'	110° 17.11'	-3.1	1.8W	12	203	3	0.17
220818	16:59:11.86	38° 52.60'	109° 19.22'	6.0*	1.4W	9	171	46	0.08
220818	18:31:26.09	39° 25.67'	110° 18.04'	-1.7	1.6W	16	182	2	0.15
220818	19:07:18.31	39° 25.72'	110° 18.23'	-1.4	1.5W	13	182	2	0.16
220818	19:46:51.18	39° 25.45'	110° 17.80'	-1.9	1.5W	13	184	2	0.16
220818	21:05:50.99	39° 25.63'	110° 18.56'	-1.2	1.3W	11	180	1	0.15
220819	00:49:36.07	38° 28.63'	112° 50.42'	0.0	0.1	20	196	2	0.07
220819	02:14:53.51	39° 25.86'	110° 18.21'	-1.7	1.7W	19	117	2	0.16
220819	03:45:43.74	39° 25.52'	110° 17.15'	-3.5	1.4W	9	186	3	0.16

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220819	03:55:50.78	39° 25.58'	110° 17.72'	-2.1	1.6	7	200	3	0.15
220819	05:52:08.07	39° 25.76'	110° 17.70'	-2.1	1.4W	19	169	3	0.18
220819	06:10:54.49	39° 25.56'	110° 17.67'	-2.1	1.6	9	185	3	0.14
220819	06:27:06.07	39° 25.62'	110° 17.41'	-2.6	1.2W	7	201	3	0.14
220819	06:34:59.16	39° 25.84'	110° 17.28'	-3.4	1.7W	15	185	3	0.17
220819	08:02:35.67	41° 54.26'	112° 22.66'	3.7	0.1	8	89	5	0.07
220819	11:57:12.45	38° 59.90'	111° 34.49'	2.6*	0.7W	12	111	19	0.11
220819	12:37:20.72	39° 25.37'	110° 17.70'	-1.8	1.3W	7	184	3	0.15
220819	14:03:51.62	39° 25.62'	110° 18.35'	-1.3	1.4W	10	196	2	0.15
220819	14:27:59.50	39° 05.33'	110° 29.38'	11.3	1.0W	17	101	4	0.18
220820	03:04:21.62	41° 53.91'	112° 23.60'	1.2	0.8	7	133	7	0.04
220820	06:48:45.17	39° 25.61'	110° 17.56'	-2.6	1.2W	8	200	3	0.15
220820	11:28:09.26	36° 53.68'	112° 28.85'	17.3	1.8W	20	109	16	0.17
220821	07:32:12.20	40° 46.04'	111° 59.60'	3.8	0.3	13	129	3	0.16
220821	07:41:48.26	38° 59.01'	111° 24.09'	-0.6	1.0W	6	104	4	0.05
220822	16:42:22.02	39° 25.93'	110° 19.55'	-0.9	1.2	5	159	1	0.02
220822	17:15:51.70	39° 25.98'	110° 19.23'	-1.4	2.0W	25	113	1	0.21
220822	17:32:52.73	39° 25.54'	110° 18.28'	-1.2	1.2W	11	182	2	0.15
220822	18:41:52.78	39° 25.72'	110° 17.62'	-2.6	1.7W	10	200	3	0.15
220822	20:46:27.93	39° 25.57'	110° 17.92'	-1.8	1.2W	10	199	2	0.15
220822	21:05:42.90	39° 25.89'	110° 19.07'	-0.9	1.5	10	192	1	0.06
220822	21:32:41.72	39° 26.02'	110° 18.97'	-1.2	1.3W	13	178	1	0.11
220822	22:16:15.72	39° 25.95'	110° 19.53'	-1.0	1.2	8	161	1	0.04
220822	23:42:05.99	39° 25.74'	110° 17.71'	-2.3	1.8W	12	185	3	0.14
220823	01:28:32.32	39° 25.51'	110° 17.97'	-1.7	1.4W	7	199	2	0.15
220823	02:37:18.86	39° 25.58'	110° 17.98'	-1.7	1.2W	7	198	2	0.15
220823	03:43:19.90	39° 25.54'	110° 18.05'	-1.6	1.5	7	198	2	0.14
220823	04:37:20.75	39° 25.94'	110° 19.37'	-1.0	1.1	6	177	1	0.04
220823	05:21:05.95	39° 25.58'	110° 17.32'	-3.1	1.2W	7	202	3	0.15
220823	05:28:26.37	39° 25.77'	110° 17.86'	-1.6	2.1W	25	169	2	0.20
220823	06:34:57.95	41° 44.65'	112° 47.51'	5.4	0.8	21	186	4	0.14
220823	15:13:06.89	39° 25.66'	110° 18.12'	-1.6	1.4W	10	197	2	0.15
220823	16:02:17.99	39° 25.79'	110° 18.90'	-0.9	1.4	9	193	1	0.13
220823	16:05:36.77	39° 25.72'	110° 18.83'	-0.9	1.6	6	194	1	0.10
220823	17:14:22.09	39° 25.70'	110° 17.93'	-2.2	1.9W	13	198	2	0.15
220823	19:35:38.08	39° 25.79'	110° 19.12'	-0.9	1.3W	11	178	1	0.10
220823	19:37:12.46	39° 25.95'	110° 19.11'	-1.1	1.5	11	177	1	0.10
220823	21:52:17.73	39° 25.59'	110° 18.40'	-1.2	1.2W	12	181	2	0.14
220823	22:37:49.45	39° 25.76'	110° 17.92'	-2.0	1.2W	8	198	2	0.16
220824	01:53:50.55	39° 25.59'	110° 16.93'	-3.0	1.7W	14	204	4	0.18
220824	03:35:00.64	39° 25.57'	110° 17.89'	-1.8	1.3W	7	199	2	0.15
220824	03:43:34.73	39° 25.78'	110° 17.63'	-2.8	2.0W	13	184	3	0.15
220824	05:18:55.62	39° 25.59'	110° 17.34'	-3.3	1.7	7	202	3	0.15
220824	05:27:39.92	39° 25.58'	110° 17.82'	-2.1	1.5	7	199	2	0.14

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220824	06:37:26.49	39° 25.80'	110° 18.04'	-1.9	1.4W	10	197	2	0.15
220824	07:21:22.07	39° 25.65'	110° 17.59'	-2.8	1.5W	9	184	3	0.14
220824	11:08:36.87	39° 25.85'	110° 18.73'	-1.2	1.3W	8	194	1	0.11
220824	12:36:03.64	38° 52.96'	109° 19.11'	6.0*	1.4W	10	126	47	0.11
220824	12:49:27.77	39° 25.70'	110° 18.38'	-1.4	1.6W	18	181	2	0.14
220824	17:02:29.18	39° 25.61'	110° 17.37'	-3.2	2.0	7	202	3	0.14
220824	17:31:47.15	39° 25.82'	110° 18.55'	-1.1	1.6W	15	180	2	0.11
220824	18:58:20.69	39° 25.86'	110° 19.48'	-0.9	1.5	9	167	1	0.03
220824	19:04:00.38	39° 25.80'	110° 18.09'	-1.6	1.9W	20	182	2	0.19
220824	20:41:07.12	39° 25.76'	110° 17.97'	-1.8	1.7W	18	183	2	0.15
220824	21:20:08.17	39° 25.95'	110° 19.29'	-0.8	1.3	8	183	1	0.04
220824	21:53:12.57	39° 25.85'	110° 18.08'	-2.0	2.0W	17	182	2	0.18
220824	22:57:04.84	39° 26.03'	110° 19.05'	-1.1	1.4W	14	178	1	0.13
220824	23:47:36.95	39° 25.60'	110° 17.17'	-3.2	1.6	7	203	3	0.15
220825	00:21:55.70	39° 25.66'	110° 18.19'	-1.6	1.5	7	197	2	0.15
220825	01:28:48.96	39° 25.47'	110° 16.78'	-3.4	1.4W	8	205	4	0.16
220825	05:11:57.34	39° 25.44'	110° 17.28'	-3.4	1.5W	12	202	3	0.16
220825	05:32:03.02	39° 25.46'	110° 17.30'	-3.2	1.6W	12	202	3	0.15
220825	05:35:07.94	39° 25.52'	110° 17.89'	-1.8	1.3W	8	183	2	0.15
220825	05:44:45.63	39° 25.87'	110° 18.09'	-1.8	1.7	8	182	2	0.11
220825	06:37:05.79	39° 25.64'	110° 17.83'	-1.9	1.7W	18	183	2	0.18
220825	06:49:41.47	42° 25.78'	110° 11.99'	10.9*	1.9W	10	116	65	0.21
220825	07:46:13.24	39° 25.53'	110° 17.68'	-1.9	1.8	7	200	3	0.15
220825	09:47:49.10	38° 36.37'	112° 32.21'	-0.5	1.2W	19	122	8	0.16
220825	15:48:53.30	39° 25.69'	110° 17.56'	-2.8	1.8W	14	184	3	0.16
220825	16:49:35.44	39° 25.55'	110° 17.39'	-3.0	1.3W	7	202	3	0.15
220825	18:22:04.20	39° 25.67'	110° 18.12'	-1.6	1.8W	18	182	2	0.15
220825	19:46:02.29	39° 16.50'	111° 56.39'	4.4*	1.4W	14	76	20	0.20
220825	20:09:43.85	39° 25.75'	110° 18.39'	-1.3	1.5W	16	181	2	0.12
220825	21:25:50.04	39° 25.48'	110° 17.48'	-2.3	1.7	7	202	3	0.16
220825	21:53:43.86	39° 25.84'	110° 19.48'	-0.9	1.2W	5	167	1	0.03
220825	22:11:55.62	39° 25.58'	110° 17.89'	-1.8	1.8	6	199	2	0.15
220825	22:42:46.64	39° 25.63'	110° 18.16'	-1.5	1.6W	9	197	2	0.12
220825	23:29:53.00	39° 25.50'	110° 17.91'	-1.7	1.2W	6	199	2	0.15
220826	01:08:20.09	39° 25.76'	110° 18.66'	-1.3	1.4W	7	194	1	0.12
220826	05:03:54.50	39° 25.63'	110° 17.69'	-2.4	1.2W	7	200	3	0.15
220826	05:04:48.05	39° 26.04'	110° 19.51'	-1.5	1.4W	7	162	1	0.05
220826	05:17:19.27	39° 25.50'	110° 17.18'	-3.3	1.4W	9	203	3	0.16
220826	05:49:50.74	39° 25.52'	110° 17.39'	-3.0	1.6W	11	202	3	0.16
220826	07:58:40.88	39° 25.52'	110° 17.08'	-3.3	1.6W	11	186	3	0.16
220826	11:34:28.19	38° 42.22'	112° 17.15'	4.3*	1.1	6	204	18	0.08
220826	14:21:49.13	38° 29.41'	112° 50.23'	0.2	-0.4	10	199	3	0.05
220826	14:34:43.00	38° 29.38'	112° 49.64'	0.6	-0.1	6	230	4	0.03
220826	15:06:29.06	39° 25.47'	110° 17.72'	-1.8	1.5	7	185	3	0.12

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220826	15:27:02.68	39° 25.46'	110° 17.32'	-3.2	1.7W	11	202	3	0.16
220826	16:10:17.76	39° 25.68'	110° 18.11'	-1.6	1.4W	8	197	2	0.14
220826	16:17:49.74	39° 25.74'	110° 17.81'	-2.4	1.3W	7	199	3	0.16
220826	16:40:41.19	39° 25.74'	110° 18.91'	-1.0	1.3W	7	193	1	0.09
220826	18:14:23.92	39° 25.97'	110° 19.64'	-1.0	0.9	5	152	1	0.03
220826	18:28:07.73	39° 26.24'	110° 20.16'	-2.3	1.4W	9	109	2	0.16
220826	19:05:05.53	39° 25.51'	110° 17.69'	-2.3	1.4W	7	200	3	0.15
220826	19:20:41.34	39° 25.53'	110° 17.88'	-1.8	1.1W	6	199	2	0.16
220826	19:23:58.26	39° 25.60'	110° 17.13'	-3.3	1.2W	11	203	3	0.16
220826	19:29:29.20	39° 25.81'	110° 18.66'	-1.1	1.6	7	194	1	0.09
220826	19:33:04.74	39° 25.53'	110° 17.96'	-1.6	1.3W	6	199	2	0.14
220826	20:33:23.27	39° 25.66'	110° 17.50'	-2.5	1.7	7	200	3	0.13
220827	00:31:24.15	38° 35.18'	112° 34.50'	1.9*	0.4	11	170	11	0.09
220827	03:29:11.75	41° 45.04'	112° 47.14'	7.1	1.7W	29	132	3	0.18
220827	14:57:24.90	39° 26.03'	110° 18.50'	-1.4	1.3W	13	179	2	0.13
220827	23:02:17.65	37° 49.46'	112° 59.60'	3.5*	1.6W	22	53	31	0.26
220828	03:48:08.66	39° 25.62'	110° 18.00'	-1.7	1.4W	13	183	2	0.15
220828	04:05:25.32	36° 51.67'	112° 16.76'	16.0	2.3W	20	89	29	0.29
220828	17:15:39.06	41° 43.36'	111° 40.85'	8.5	0.9	19	64	11	0.07
220828	20:04:58.23	41° 43.14'	111° 40.92'	7.3	1.0	20	123	12	0.07
220828	20:18:35.06	41° 43.40'	111° 41.03'	7.7	1.8W	35	57	11	0.13
220828	20:24:39.27	41° 43.35'	111° 40.88'	4.8*	0.9W	18	64	11	0.13
220828	21:01:38.88	41° 43.37'	111° 40.83'	6.3	1.0	18	64	11	0.07
220829	05:07:27.73	42° 06.51'	112° 23.48'	8.3	0.8	16	155	11	0.15
220829	14:31:59.58	39° 25.92'	110° 16.93'	-3.4	2.1W	15	203	4	0.26
220829	15:24:37.84	39° 25.64'	110° 17.93'	-1.6	1.4W	10	199	2	0.15
220829	15:44:16.59	39° 25.57'	110° 17.47'	-2.5	1.3W	8	201	3	0.15
220829	16:03:39.56	39° 25.79'	110° 17.79'	-2.3	1.6W	11	199	3	0.15
220829	16:25:14.59	39° 25.62'	110° 17.98'	-1.8	1.7W	16	183	2	0.14
220829	18:04:47.23	41° 43.70'	111° 40.41'	9.4	1.6W	28	65	11	0.15
220829	19:18:02.02	41° 43.67'	111° 40.62'	8.6	0.8W	17	66	11	0.11
220829	20:32:30.13	41° 43.55'	111° 40.30'	6.5	0.7	16	65	12	0.20
220829	20:32:39.87	41° 43.17'	111° 40.92'	8.4	1.3	10	149	12	0.06
220829	21:30:57.08	41° 43.74'	111° 40.13'	5.3*	0.1	7	159	12	0.16
220829	21:31:03.00	41° 43.04'	111° 40.75'	7.8	0.3	11	89	12	0.10
220829	21:31:12.55	41° 43.27'	111° 40.78'	6.4	1.2W	14	123	12	0.14
220830	01:16:29.46	39° 25.89'	110° 19.42'	-0.9	1.8	5	172	1	0.03
220830	02:42:28.18	39° 26.21'	110° 19.49'	-1.7	1.5W	9	112	1	0.15
220830	03:07:26.98	39° 25.57'	110° 17.90'	-1.8	1.3W	8	199	2	0.13
220830	03:07:55.58	39° 25.59'	110° 17.68'	-2.3	1.7W	9	200	3	0.16
220830	03:53:34.21	39° 25.77'	110° 18.88'	-0.9	1.1	10	178	1	0.11
220830	04:46:58.70	39° 25.62'	110° 17.42'	-2.9	1.6	7	201	3	0.14
220830	04:51:04.00	39° 25.66'	110° 18.42'	-1.2	1.5W	15	181	2	0.16
220830	05:27:52.01	41° 43.31'	111° 40.62'	9.4	1.4W	24	65	12	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220830	05:31:19.38	41° 43.15'	111° 40.55'	9.7	1.0	25	64	12	0.12
220830	07:12:45.10	39° 25.60'	110° 17.23'	-3.3	1.3W	8	202	3	0.15
220830	08:54:03.68	39° 25.81'	110° 19.04'	-1.1	1.7	7	192	1	0.11
220830	12:52:14.15	38° 29.09'	112° 50.70'	0.1	-0.4	12	193	3	0.06
220830	12:52:40.32	38° 29.05'	112° 50.83'	0.1	-0.7	12	188	3	0.05
220830	14:31:37.00	39° 26.03'	110° 18.79'	-1.4	1.6W	8	192	1	0.11
220830	14:54:47.32	39° 25.69'	110° 17.15'	-2.7	1.8	6	225	3	0.11
220830	16:30:46.90	39° 25.83'	110° 19.37'	-0.9	1.4	8	181	1	0.03
220830	17:27:42.53	39° 25.94'	110° 18.90'	-1.0	1.2	6	216	1	0.04
220830	18:21:49.87	39° 25.73'	110° 21.49'	-2.8	1.7W	10	99	3	0.21
220830	18:29:00.38	39° 25.43'	110° 17.15'	-3.5	1.7W	11	203	3	0.16
220830	20:32:05.91	39° 26.13'	110° 19.76'	-1.3	1.5	11	146	1	0.07
220830	22:07:14.26	39° 25.77'	110° 18.49'	-1.3	1.4W	10	195	2	0.13
220830	23:35:01.63	39° 25.92'	110° 18.33'	-1.6	1.4W	16	181	2	0.13
220831	00:18:24.00	39° 25.80'	110° 18.48'	-1.2	1.5	12	180	2	0.12
220831	02:00:11.03	39° 25.50'	110° 18.02'	-1.7	1.5W	18	169	2	0.14
220831	02:19:49.09	39° 25.71'	110° 18.43'	-1.3	1.4W	15	181	2	0.15
220831	03:07:18.89	39° 25.78'	110° 18.40'	-1.5	1.6W	18	181	2	0.17
220831	04:42:57.07	39° 25.78'	110° 18.14'	-1.6	1.6	9	197	2	0.11
220831	06:35:06.41	39° 25.74'	110° 18.27'	-1.3	1.4W	13	182	2	0.18
220831	07:03:19.49	39° 25.63'	110° 18.01'	-1.8	1.4W	11	198	2	0.15
220831	08:31:17.70	39° 25.61'	110° 17.52'	-2.8	1.3W	7	200	3	0.14
220831	15:01:53.43	39° 25.69'	110° 18.05'	-1.9	1.5W	9	197	2	0.16
220831	15:10:04.45	39° 25.54'	110° 17.47'	-2.7	1.4W	8	201	3	0.15
220831	15:26:34.83	39° 25.96'	110° 19.07'	-1.1	1.7	6	192	1	0.07
220831	16:51:59.83	39° 25.99'	110° 18.36'	-1.6	1.6	6	195	2	0.10
220831	18:23:56.94	39° 25.64'	110° 17.46'	-2.8	1.4W	8	201	3	0.14
220831	18:44:12.77	39° 25.76'	110° 17.71'	-2.7	1.6W	11	200	3	0.14
220831	18:57:40.94	38° 56.09'	111° 27.64'	1.7*	1.0W	14	79	11	0.15
220831	19:25:12.66	39° 25.53'	110° 17.74'	-1.9	1.3W	8	200	3	0.15
220831	19:58:23.28	39° 25.61'	110° 17.44'	-3.1	1.3W	7	201	3	0.15
220831	22:11:48.66	39° 25.91'	110° 18.26'	-1.5	2.0	9	196	2	0.09
220831	23:00:31.64	37° 38.21'	113° 11.10'	3.4*	0.9W	7	88	28	0.07
220831	23:08:35.51	39° 25.83'	110° 17.48'	-3.5	2.1W	13	200	3	0.17
220831	23:19:20.41	39° 25.62'	110° 17.90'	-2.0	1.4W	8	183	2	0.15
220831	23:34:05.81	39° 25.86'	110° 17.63'	-2.2	1.3W	8	184	3	0.14
220831	23:48:30.51	39° 25.72'	110° 17.93'	-1.8	1.4W	10	198	2	0.14
220901	01:08:38.72	39° 25.52'	110° 17.39'	-3.2	1.2W	7	202	3	0.14
220901	03:20:25.27	39° 25.73'	110° 18.63'	-1.2	1.6W	11	194	1	0.10
220901	04:47:47.02	39° 26.08'	110° 18.34'	-2.1	1.4W	10	195	2	0.14
220901	05:53:13.54	39° 25.76'	110° 18.47'	-1.2	1.8	8	180	2	0.10
220901	07:01:01.72	39° 25.59'	110° 18.36'	-1.3	1.6	11	181	2	0.16
220901	07:05:18.52	39° 25.64'	110° 18.35'	-1.4	1.6W	10	196	2	0.14
220901	07:27:59.05	39° 25.54'	110° 18.02'	-1.9	1.4W	8	198	2	0.13

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220901	11:47:10.71	39° 25.82'	110° 18.57'	-1.3	1.8	9	167	2	0.10
220901	15:43:13.03	39° 25.80'	110° 17.80'	-2.7	1.7W	12	183	3	0.14
220901	17:44:51.33	39° 25.98'	110° 18.93'	-0.9	1.4W	11	167	1	0.09
220901	18:21:38.63	39° 25.87'	110° 18.49'	-1.5	1.6W	12	167	2	0.12
220901	20:04:07.83	39° 25.71'	110° 17.84'	-2.1	1.8W	17	183	2	0.17
220901	22:20:10.72	39° 25.59'	110° 17.41'	-3.1	1.7	7	201	3	0.14
220902	01:33:19.60	40° 29.18'	111° 19.72'	14.0	0.5	14	107	2	0.06
220902	08:01:12.22	40° 45.13'	112° 02.54'	7.4	0.5	16	115	3	0.18
220902	10:09:02.27	40° 29.16'	111° 20.05'	12.8	1.0	23	88	2	0.14
220902	22:52:40.41	38° 58.72'	111° 17.80'	-2.8	1.3W	6	85	6	0.02
220903	14:40:40.08	38° 28.96'	112° 50.32'	0.0	1.0W	17	199	2	0.08
220903	14:48:36.67	38° 28.88'	112° 50.27'	0.2	-0.2	8	206	3	0.08
220903	15:06:07.12	38° 29.07'	112° 50.00'	0.0	1.5W	24	127	2	0.12
220903	15:58:00.36	38° 28.82'	112° 51.09'	-0.1	-0.5	12	180	2	0.07
220903	15:58:29.35	38° 28.75'	112° 51.32'	0.0	-0.7	12	172	2	0.08
220903	17:39:17.60	38° 28.80'	112° 50.93'	-0.4	1.3W	23	97	1	0.15
220903	17:53:03.87	38° 29.08'	112° 49.87'	0.1	-0.1	9	248	4	0.11
220903	18:28:36.28	38° 28.94'	112° 49.73'	0.2	-0.1	8	249	4	0.08
220903	19:10:12.85	37° 47.30'	113° 47.95'	6.6*	2.2W	18	168	32	0.15
220903	19:42:56.04	38° 29.29'	112° 49.43'	0.3	-0.3	7	286	4	0.12
220903	20:06:12.73	38° 31.14'	112° 38.86'	2.7*	-0.2	9	179	20	0.14
220903	21:42:26.56	38° 29.09'	112° 48.91'	5.4	0.6W	6	266	5	0.27
220904	00:27:35.74	38° 28.90'	112° 50.19'	0.1	0.5	18	201	2	0.10
220904	00:36:04.70	38° 29.04'	112° 50.08'	0.0	0.6	18	203	2	0.11
220904	00:43:18.13	38° 29.04'	112° 50.45'	0.0	0.9	19	103	1	0.12
220904	00:50:19.78	38° 58.82'	111° 17.72'	-2.8	1.5W	8	82	6	0.03
220904	00:53:56.81	38° 29.06'	112° 49.92'	-0.2	-0.4	6	218	4	0.09
220904	01:24:56.16	38° 28.98'	112° 49.87'	0.0	-0.2	8	219	4	0.10
220904	01:53:15.03	38° 28.93'	112° 50.16'	0.2	-0.1	14	202	3	0.25
220904	05:51:13.82	37° 46.48'	113° 46.30'	13.7*	1.3	8	105	29	0.23
220904	07:13:17.27	38° 58.44'	111° 17.16'	-3.4	1.6W	9	80	7	0.26
220904	08:18:41.39	38° 58.85'	111° 17.78'	-3.2	1.2W	7	85	6	0.14
220904	09:29:45.70	38° 58.81'	111° 17.67'	-3.4	1.5	5	84	6	0.03
220904	10:29:00.34	38° 58.82'	111° 17.43'	-3.5	2.1W	16	78	6	0.17
220904	10:53:37.91	38° 58.67'	111° 17.86'	-3.0	1.8	7	86	6	0.05
220904	11:24:50.68	38° 58.86'	111° 17.50'	-3.4	2.0W	15	83	6	0.13
220904	12:03:55.03	38° 58.92'	111° 17.89'	-3.0	1.9W	16	71	6	0.16
220904	12:18:32.92	39° 25.53'	110° 18.08'	-1.6	1.8	8	197	2	0.14
220904	14:11:44.05	38° 58.98'	111° 17.59'	-3.0	1.2W	7	85	6	0.03
220904	14:21:33.96	41° 43.54'	112° 37.66'	5.5*	0.8	10	135	14	0.13
220904	16:17:58.91	41° 43.65'	112° 37.69'	6.2*	0.7	11	134	14	0.12
220904	17:39:09.79	38° 58.67'	111° 17.85'	-3.1	1.6W	10	79	6	0.06
220904	17:51:43.26	38° 58.76'	111° 17.74'	-3.3	1.5W	7	85	6	0.03
220904	18:44:53.81	37° 58.98'	112° 25.79'	5.4*	1.9W	27	53	23	0.24
220904	19:56:31.95	38° 58.77'	111° 17.69'	-2.8	1.4W	6	85	6	0.04

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220904	22:27:25.50	38° 58.68'	111° 17.74'	-2.8	1.4W	7	86	6	0.03
220905	05:06:39.40	38° 59.09'	111° 17.44'	-3.4	1.3	6	153	6	0.06
220905	11:07:12.32	41° 51.10'	112° 36.06'	3.8*	1.6W	19	129	17	0.12
220905	13:43:37.73	38° 58.82'	111° 17.86'	-3.1	1.8W	20	65	6	0.19
220905	14:12:09.07	38° 58.65'	111° 17.79'	-2.5	1.4W	5	86	6	0.02
220905	16:29:59.14	38° 28.65'	112° 51.20'	-0.1	-0.2	6	209	2	0.03
220905	16:41:09.99	41° 56.62'	111° 53.76'	4.5*	2.0W	31	90	19	0.16
220905	19:17:35.46	38° 58.72'	111° 17.80'	-2.9	1.6W	6	85	6	0.01
220905	19:21:41.13	37° 47.69'	112° 20.80'	9.1*	2.1W	20	80	31	0.15
220905	22:09:17.76	38° 31.88'	112° 34.88'	4.1*	1.3W	11	190	15	0.04
220906	03:09:46.70	41° 56.58'	111° 53.26'	-0.4*	1.3	19	88	18	0.13
220906	14:18:42.52	39° 25.50'	110° 18.03'	-1.8	1.6W	14	199	2	0.14
220906	14:37:12.63	39° 25.50'	110° 17.12'	-3.3	1.4W	8	203	3	0.16
220906	14:58:03.39	39° 25.83'	110° 19.06'	-1.0	1.7	7	178	1	0.08
220906	16:44:03.22	39° 25.91'	110° 19.63'	-1.1	1.5	5	151	1	0.02
220906	17:35:08.44	39° 25.83'	110° 19.55'	-1.0	1.9	8	158	1	0.03
220906	17:50:44.06	39° 25.74'	110° 17.95'	-2.1	1.3W	7	198	2	0.12
220906	18:27:57.82	39° 25.93'	110° 19.39'	-1.0	1.6	9	175	1	0.06
220906	18:33:12.52	39° 25.52'	110° 17.34'	-3.3	1.9	7	202	3	0.15
220906	18:49:16.99	38° 58.70'	111° 17.77'	-2.8	1.5W	6	86	6	0.01
220906	18:55:53.09	39° 25.95'	110° 19.62'	-1.1	1.7W	10	153	1	0.13
220906	22:58:09.80	40° 30.69'	111° 20.21'	7.9*	1.2	10	190	27	0.09
220906	23:50:02.63	39° 25.50'	110° 17.69'	-2.3	1.5W	7	200	3	0.15
220907	01:00:53.51	39° 25.78'	110° 17.83'	-2.8	1.6W	10	169	2	0.16
220907	03:00:25.01	39° 25.56'	110° 18.14'	-1.6	2.2	8	197	2	0.15
220907	03:35:34.57	39° 25.62'	110° 18.25'	-1.5	1.5W	7	197	2	0.10
220907	04:34:39.26	39° 25.54'	110° 17.45'	-3.0	2.0W	16	169	3	0.15
220907	04:47:13.50	39° 25.71'	110° 18.83'	-1.1	1.5W	7	194	1	0.10
220907	04:51:05.65	39° 25.75'	110° 18.88'	-1.1	1.9	8	178	1	0.10
220907	04:55:03.17	39° 25.86'	110° 18.75'	-1.3	1.2W	7	179	1	0.09
220907	08:24:35.65	39° 25.54'	110° 17.70'	-2.1	1.4W	10	200	3	0.14
220907	09:29:25.54	38° 58.87'	111° 17.68'	-3.3	1.3W	6	84	6	0.03
220907	09:37:11.95	41° 55.18'	112° 27.58'	0.6*	0.6	8	110	11	0.29
220907	11:49:38.83	38° 12.98'	113° 02.51'	4.1*	1.4W	22	93	13	0.17
220907	14:48:36.15	39° 25.64'	110° 17.46'	-3.0	1.7W	13	201	3	0.16
220907	15:26:43.06	39° 25.81'	110° 17.82'	-2.4	1.7W	10	198	3	0.14
220907	15:54:50.61	39° 25.93'	110° 19.01'	-1.0	1.6	6	192	1	0.07
220907	17:42:10.76	39° 25.65'	110° 18.13'	-1.6	1.5W	8	197	2	0.13
220907	18:43:01.20	39° 25.90'	110° 19.66'	-1.1	1.9	8	148	1	0.03
220907	20:49:18.75	39° 25.97'	110° 19.85'	-1.2	1.3	6	136	1	0.02
220907	21:58:00.09	39° 25.60'	110° 18.01'	-2.0	1.5W	10	183	2	0.14
220908	01:19:29.12	39° 25.46'	110° 17.29'	-3.4	1.7W	14	185	3	0.16
220908	05:02:23.69	39° 26.17'	110° 18.78'	-1.5	1.7	7	192	2	0.11
220908	06:04:25.87	38° 44.43'	111° 20.08'	8.9	1.3W	15	90	9	0.16

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2022

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220908	14:40:51.62	39° 25.53'	110° 18.02'	-1.7	1.9	6	198	2	0.14
220908	15:24:50.71	39° 25.90'	110° 18.20'	-1.7	1.7W	8	197	2	0.12
220908	16:25:51.70	39° 25.49'	110° 17.08'	-3.4	1.9	5	203	3	0.08
220908	17:10:32.20	39° 25.91'	110° 18.46'	-1.6	1.8W	19	195	2	0.11
220908	18:35:09.03	39° 25.98'	110° 19.22'	-1.2	1.5W	10	177	1	0.07
220908	20:00:59.95	39° 25.86'	110° 19.36'	-1.0	1.5W	12	177	1	0.05
220908	21:17:52.77	39° 25.60'	110° 17.83'	-2.1	1.5W	10	199	2	0.15
220908	21:39:52.64	39° 25.80'	110° 18.69'	-1.1	1.6W	8	194	1	0.09
220909	02:06:21.32	39° 25.50'	110° 17.88'	-1.8	1.8	7	199	2	0.13
220909	02:18:54.23	39° 25.35'	110° 16.81'	-3.4	1.4W	9	187	4	0.19
220909	02:24:53.48	39° 25.38'	110° 16.70'	-3.2	1.9W	11	205	4	0.18
220909	04:35:40.58	39° 57.20'	111° 22.41'	12.1	2.2W	37	63	23	0.17
220909	05:17:39.09	39° 25.66'	110° 17.90'	-2.1	1.7	12	183	2	0.15
220909	05:18:24.92	39° 25.77'	110° 19.63'	-0.9	1.2	8	146	1	0.05
220909	06:19:53.95	39° 25.51'	110° 17.73'	-2.2	1.9	7	200	3	0.15
220909	10:51:16.29	39° 25.82'	110° 19.25'	-1.0	1.5	8	191	1	0.15
220909	14:04:47.96	39° 25.65'	110° 17.88'	-1.7	1.3W	10	199	2	0.12
220909	14:35:26.50	39° 25.52'	110° 17.75'	-2.3	1.5W	8	184	3	0.14
220909	17:05:21.69	39° 25.83'	110° 19.36'	-0.9	1.4W	7	181	1	0.04
220909	17:39:40.27	39° 25.75'	110° 17.86'	-2.2	1.4W	11	183	2	0.15
220909	18:35:34.20	39° 25.66'	110° 17.86'	-1.9	1.4W	12	183	2	0.12
220909	19:28:14.07	39° 25.72'	110° 17.74'	-2.5	1.7W	11	184	3	0.15
220909	20:08:53.84	41° 28.94'	111° 42.84'	9.1	1.6W	26	50	12	0.13
220910	01:14:21.18	37° 47.33'	113° 07.69'	11.4*	2.1W	24	44	28	0.25
220910	01:14:50.25	37° 47.26'	113° 07.26'	8.5*	1.4	15	91	28	0.23
220910	01:34:50.00	39° 25.85'	110° 19.08'	-1.1	1.8	9	192	1	0.10
220910	01:40:33.64	38° 53.12'	111° 33.12'	19.8	1.3W	18	75	16	0.16
220910	01:50:17.85	39° 25.58'	110° 18.06'	-1.9	1.8	9	198	2	0.13
220910	02:36:11.48	39° 25.53'	110° 17.00'	-3.3	2.0	8	203	4	0.17
220910	03:00:42.74	39° 25.66'	110° 17.85'	-2.2	1.5W	8	183	2	0.14
220910	03:22:23.61	39° 25.61'	110° 17.60'	-2.7	1.6W	8	200	3	0.15
220910	03:36:21.52	39° 25.80'	110° 18.06'	-1.8	1.5	7	197	2	0.12
220910	03:44:58.34	39° 25.50'	110° 17.45'	-3.0	1.4W	7	202	3	0.16
220910	04:09:30.21	39° 25.55'	110° 17.61'	-2.7	1.6W	7	200	3	0.15
220910	08:46:01.47	39° 25.71'	110° 17.92'	-2.0	1.3W	8	183	2	0.14
220911	07:02:16.25	40° 06.53'	111° 20.79'	8.1*	1.9W	34	68	27	0.18
220911	07:43:30.93	40° 06.30'	111° 20.77'	6.1*	1.5W	28	69	26	0.22
220911	11:45:33.96	40° 44.93'	112° 02.17'	9.1	1.1W	34	49	2	0.14
220912	09:40:50.28	40° 45.05'	112° 04.30'	8.7	0.6	15	58	4	0.10
220912	15:36:05.15	39° 25.77'	110° 18.38'	-1.4	2.0	7	196	2	0.12
220912	17:43:24.92	39° 25.83'	110° 17.59'	-3.3	1.4W	10	200	3	0.15
220912	18:22:48.67	39° 25.87'	110° 19.30'	-1.0	1.4	9	185	1	0.06
220912	18:25:10.11	39° 25.62'	110° 18.55'	-1.2	1.4W	11	180	1	0.16
220912	19:00:49.63	39° 25.70'	110° 18.27'	-1.7	1.7W	14	182	2	0.16

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220913	01:17:47.99	39° 25.47'	110° 17.95'	-1.8	1.7	6	199	2	0.15
220913	03:41:07.87	41° 07.26'	112° 22.70'	5.1*	0.6	14	87	17	0.13
220913	04:04:42.66	41° 55.43'	112° 16.88'	7.2	0.6	9	113	4	0.15
220913	04:26:15.84	39° 25.94'	110° 19.19'	-1.3	1.5	11	113	1	0.17
220913	04:32:40.41	39° 25.97'	110° 18.57'	-1.7	2.2W	28	103	2	0.18
220913	07:01:27.21	40° 44.43'	112° 03.45'	7.7	0.2	14	116	2	0.15
220913	08:34:50.83	41° 16.38'	111° 44.07'	12.7	0.9W	33	80	15	0.19
220913	14:05:14.48	38° 58.79'	111° 17.79'	-3.0	1.4W	5	110	6	0.02
220913	14:17:25.54	41° 54.87'	112° 16.74'	6.6	0.4	7	132	4	0.04
220913	16:29:23.88	39° 26.02'	110° 19.79'	-1.1	1.3W	11	141	1	0.08
220913	17:42:03.48	38° 58.72'	111° 17.62'	-3.4	1.9W	20	74	6	0.10
220913	17:59:36.05	38° 58.81'	111° 17.69'	-2.8	1.4W	7	85	6	0.06
220913	18:27:52.90	39° 25.67'	110° 17.83'	-1.9	1.8W	18	185	2	0.19
220913	19:10:49.14	39° 25.59'	110° 17.75'	-2.0	1.4W	10	184	3	0.14
220913	20:08:05.30	39° 25.57'	110° 18.07'	-1.5	1.4W	11	197	2	0.14
220913	20:25:00.21	39° 25.90'	110° 19.50'	-0.9	1.8	7	165	1	0.04
220913	21:28:18.91	39° 25.62'	110° 18.39'	-1.4	1.8	12	196	2	0.13
220914	00:11:00.49	39° 25.67'	110° 19.26'	-0.8	1.5	9	191	1	0.06
220914	00:19:38.34	39° 25.48'	110° 17.94'	-1.8	1.7	6	199	2	0.15
220914	03:15:51.02	38° 58.74'	111° 17.86'	-2.8	1.5W	8	86	6	0.10
220914	06:20:43.27	39° 25.74'	110° 17.71'	-2.2	1.9W	22	185	3	0.17
220914	06:50:35.60	39° 25.54'	110° 18.07'	-1.6	1.2W	8	198	2	0.14
220914	06:57:35.78	39° 25.59'	110° 16.99'	-3.3	1.8W	15	186	4	0.17
220914	07:34:21.94	39° 25.58'	110° 17.39'	-2.8	1.3W	7	202	3	0.14
220914	07:35:10.52	39° 26.00'	110° 19.29'	-1.2	1.5	6	182	1	0.07
220914	11:17:20.16	41° 27.31'	111° 41.24'	7.2*	1.7	35	60	15	0.21
220914	13:27:22.51	38° 43.73'	112° 33.70'	9.8	1.0	9	181	17	0.06
220914	14:10:51.38	39° 25.67'	110° 17.85'	-2.0	1.6	9	199	2	0.14
220914	14:31:35.99	37° 44.07'	112° 56.03'	4.2*	1.9W	21	40	17	0.20
220914	16:38:39.86	39° 25.44'	110° 16.76'	-3.3	1.8W	12	205	4	0.17
220914	17:35:38.59	39° 25.98'	110° 18.82'	-1.1	1.3W	15	178	1	0.10
220914	17:59:28.24	39° 25.63'	110° 18.29'	-1.5	1.6W	12	182	2	0.16
220914	19:10:11.64	39° 25.70'	110° 18.78'	-1.0	1.3W	11	179	1	0.10
220914	20:01:15.04	39° 26.01'	110° 19.44'	-1.2	1.2W	10	169	1	0.14
220914	20:41:10.36	39° 25.49'	110° 18.21'	-1.5	1.5W	9	197	2	0.13
220914	20:49:02.83	39° 25.71'	110° 17.96'	-1.9	1.4W	11	183	2	0.14
220914	21:02:40.04	39° 25.55'	110° 18.39'	-1.3	1.5W	12	196	2	0.15
220914	21:44:30.56	39° 25.49'	110° 18.21'	-1.3	1.4W	12	182	2	0.15
220914	22:25:30.62	38° 59.02'	111° 17.53'	-3.2	1.2W	5	86	6	0.02
220915	00:38:11.92	39° 26.01'	110° 17.99'	-3.4	2.0W	15	117	2	0.20
220915	02:19:57.05	39° 25.61'	110° 17.89'	-2.0	1.3W	9	199	2	0.14
220915	02:58:50.30	39° 25.51'	110° 17.35'	-3.3	1.3W	7	202	3	0.14
220915	05:57:15.89	39° 25.61'	110° 18.26'	-1.5	1.4W	9	197	2	0.13
220915	06:41:27.24	39° 25.73'	110° 18.05'	-1.9	1.4W	8	197	2	0.15

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220915	07:28:07.22	39° 25.50'	110° 17.07'	-3.4	1.3W	11	203	4	0.15
220915	07:36:47.04	39° 25.87'	110° 16.84'	-3.4	1.4W	6	204	4	0.25
220915	13:01:36.94	40° 17.65'	111° 30.67'	4.0*	1.3W	17	144	13	0.21
220915	21:22:37.68	39° 09.94'	110° 48.22'	16.2	1.2W	18	84	25	0.21
220916	00:12:34.52	39° 25.71'	110° 17.40'	-3.2	1.5W	13	185	3	0.16
220916	04:33:06.84	40° 24.13'	113° 32.80'	7.4*	1.9W	9	217	66	0.04
220916	08:49:24.64	39° 25.72'	110° 18.27'	-1.6	1.6W	9	197	2	0.14
220916	11:35:13.79	38° 58.49'	111° 17.92'	-3.2	1.6W	7	76	6	0.03
220916	14:57:48.18	39° 25.68'	110° 17.65'	-2.8	1.9W	17	184	3	0.17
220916	15:15:30.99	38° 59.15'	111° 16.83'	-3.4	1.3W	5	89	7	0.20
220916	16:12:07.28	39° 26.13'	110° 19.12'	-1.6	1.7	9	177	1	0.11
220916	16:42:08.02	39° 25.62'	110° 17.85'	-2.2	1.5W	10	199	2	0.14
220916	19:53:52.08	39° 25.79'	110° 18.84'	-0.9	1.6	10	194	1	0.07
220916	21:14:24.52	39° 25.73'	110° 18.16'	-1.8	1.6W	13	197	2	0.14
220916	23:02:28.48	38° 58.82'	111° 17.79'	-3.1	1.3W	5	85	6	0.02
220917	04:57:54.31	38° 27.02'	112° 27.74'	2.4*	1.3W	19	81	18	0.12
220917	05:37:10.21	38° 27.13'	112° 27.69'	8.7*	0.9W	16	81	18	0.05
220917	18:38:11.79	38° 29.47'	112° 50.54'	0.0	1.3W	16	118	1	0.10
220917	18:43:21.80	38° 29.49'	112° 50.47'	-0.5	1.8W	22	71	1	0.15
220918	02:48:31.97	41° 52.96'	112° 40.90'	2.4*	1.1	9	169	14	0.12
220918	07:09:50.54	37° 35.30'	113° 01.49'	10.3	1.8	17	75	14	0.20
220918	13:17:34.88	39° 25.38'	110° 18.10'	-1.5	1.6W	11	199	2	0.15
220918	13:17:43.30	39° 02.32'	111° 18.06'	2.0	1.3	6	147	7	0.05
220918	23:50:20.84	39° 25.67'	110° 18.47'	-1.1	1.4W	12	195	2	0.12
220919	01:22:12.75	39° 25.58'	110° 18.82'	-0.9	1.7W	9	194	1	0.10
220919	02:00:02.20	39° 25.56'	110° 17.94'	-1.8	1.5W	14	169	2	0.15
220919	04:36:21.13	39° 25.89'	110° 18.76'	-1.4	1.4W	13	179	1	0.14
220919	15:09:51.60	39° 25.69'	110° 18.44'	-1.4	1.6	7	196	2	0.11
220920	00:39:31.60	39° 25.65'	110° 17.67'	-2.8	1.7W	12	185	3	0.15
220920	02:52:49.02	39° 25.63'	110° 17.89'	-2.0	1.8	8	183	2	0.15
220920	04:26:54.32	41° 35.60'	111° 41.16'	9.7	1.1	20	74	8	0.15
220920	04:44:55.05	39° 25.72'	110° 18.36'	-1.5	1.6W	14	181	2	0.14
220920	05:10:46.82	39° 25.86'	110° 19.42'	-1.0	1.4	7	173	1	0.05
220920	06:05:23.13	39° 25.57'	110° 18.31'	-1.5	1.6	12	182	2	0.15
220920	06:33:19.51	39° 25.56'	110° 17.87'	-2.1	1.6W	11	199	2	0.16
220920	07:09:34.12	39° 25.53'	110° 18.29'	-1.6	1.5W	16	182	2	0.16
220920	07:28:35.79	39° 25.91'	110° 18.58'	-1.5	1.1W	8	179	2	0.12
220920	16:08:26.33	39° 25.66'	110° 18.53'	-1.3	1.4W	9	195	1	0.10
220920	17:35:17.96	38° 30.49'	112° 09.64'	6.8	1.4W	8	248	2	0.07
220920	20:16:56.52	39° 25.70'	110° 18.71'	-1.1	1.4W	8	194	1	0.10
220920	21:14:58.14	40° 43.60'	112° 04.13'	9.7	0.9W	20	84	3	0.14
220920	21:15:36.26	39° 25.82'	110° 19.18'	-1.1	1.7W	9	191	1	0.10
220921	03:02:41.75	40° 43.33'	112° 04.24'	10.2	1.0W	18	82	3	0.14
220921	18:48:41.64	38° 43.90'	112° 34.68'	4.8*	1.2	13	158	18	0.14

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2022

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
220921	22:00:25.78	40° 44.03'	112° 03.98'	4.9	0.6	13	56	3	0.12
220922	05:42:49.11	39° 12.50'	110° 27.79'	11.2	1.7W	21	107	12	0.13
220922	10:33:56.99	38° 53.18'	109° 18.51'	5.0*	1.2	12	108	46	0.11
220922	13:39:17.80	41° 29.74'	112° 08.79'	0.9*	1.0	15	65	14	0.17
220922	17:01:03.23	39° 39.51'	110° 29.80'	-1.3	1.0	8	116	8	0.04
220922	20:37:05.72	39° 25.97'	110° 19.81'	-1.1	1.3	5	137	1	0.02
220922	22:30:21.19	38° 57.78'	111° 19.10'	-0.2	1.4W	6	113	5	0.00
220923	00:56:40.00	41° 42.86'	111° 38.54'	9.6	2.1W	38	60	14	0.19
220923	03:06:54.20	40° 30.32'	111° 17.72'	10.6	0.6	12	98	3	0.17
220923	04:57:56.79	41° 29.90'	112° 53.24'	2.8*	1.0	15	185	33	0.15
220924	00:23:07.57	38° 59.18'	111° 17.56'	-3.1	2.0W	24	47	6	0.19
220924	03:38:27.78	37° 57.25'	112° 56.26'	5.9*	2.1W	30	59	18	0.26
220924	03:57:48.31	41° 47.84'	112° 25.47'	1.6*	0.9	21	82	14	0.13
220924	05:09:23.60	41° 50.44'	112° 27.78'	5.6*	1.5	32	97	15	0.14
220924	12:18:32.81	38° 58.82'	111° 17.77'	-3.1	2.0W	24	45	6	0.15
220924	12:35:28.36	41° 50.44'	112° 27.70'	5.8*	0.4	9	97	15	0.03
220924	18:32:16.04	38° 23.75'	112° 47.76'	6.1	2.2W	32	78	6	0.13
220924	19:02:16.94	38° 23.49'	112° 46.99'	2.9	1.2	18	190	7	0.17
220925	00:41:09.45	41° 42.72'	111° 38.31'	12.0	0.7	25	65	13	0.17
220925	08:44:13.41	41° 50.54'	112° 28.07'	0.2*	0.6	14	98	15	0.14
220925	13:06:53.40	41° 42.84'	111° 38.77'	11.5	1.1	22	65	14	0.14
220925	21:21:44.94	38° 35.28'	112° 35.59'	1.4*	0.9W	17	174	13	0.12
220926	09:02:02.97	39° 41.90'	110° 36.67'	-1.9	1.2W	9	76	2	0.08
220927	11:38:34.91	39° 28.25'	110° 55.43'	6.0*	1.0W	12	77	31	0.20
220928	15:00:35.34	41° 44.03'	112° 13.70'	7.8*	1.0	8	82	16	0.10
220928	22:31:17.17	38° 29.19'	112° 50.06'	0.2	-0.3	8	263	4	0.04
220928	23:26:56.68	40° 29.37'	111° 20.11'	13.6	1.0	27	86	1	0.17
220929	00:00:57.77	38° 29.07'	112° 50.95'	-0.1	0.1	10	202	3	0.04
220929	01:24:11.72	38° 29.08'	112° 50.35'	2.6	-0.2	20	198	3	0.10
220929	01:37:32.78	38° 28.87'	112° 50.34'	2.6	1.3W	26	74	3	0.12
220929	02:33:43.41	38° 29.05'	112° 49.62'	3.2	1.1W	22	112	4	0.13
220929	02:45:05.89	38° 29.07'	112° 50.27'	2.6	-0.2	10	207	3	0.06
220929	16:24:09.93	41° 15.91'	111° 42.20'	11.2	1.6W	27	87	16	0.19
220929	18:08:46.50	40° 29.10'	111° 19.85'	14.2	0.7	17	104	2	0.13
220929	18:17:25.80	41° 48.33'	111° 30.90'	11.5	0.9	17	106	20	0.07
220930	01:07:23.96	40° 18.66'	111° 26.98'	7.3	1.4	20	151	13	0.18
220930	04:09:10.28	40° 29.33'	111° 21.09'	11.0	0.9	12	124	2	0.12
220930	04:14:49.21	38° 58.72'	111° 17.74'	-3.1	1.5W	6	85	6	0.02
220930	11:35:31.81	40° 44.57'	112° 02.88'	8.2	1.1	20	52	2	0.09
220930	12:25:51.10	37° 44.15'	112° 23.34'	5.9*	1.2	6	141	33	0.19

number of earthquakes = 1,011

* indicates poor depth control

M indicates moment magnitude

W indicates Wood-Anderson data used for magnitude calculation

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
September 30, 2022

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
2272	Eastwood Elementary School Salt Lake City, UT	HN[ZEN]	3	NP	40° 41.98'	111° 47.62'	1515	EpiSensor	Basalt	Digital	NSMP, ANSS
2285	Liberty Park Salt Lake City, UT	HN[ZEN]	3	NP	40° 44.70'	111° 52.49'	1298	EpiSensor	Basalt	Digital	NSMP, ANSS
2286	Roosevelt Elementary School Salt Lake City, UT	HN[ZEN]	3	NP	40° 42.08'	111° 52.01'	1314	EpiSensor	Basalt	Digital	NSMP, ANSS
7202	Meadowbrook Golf Course Murray, UT	HN[ZEN]	3	NP	40° 40.93'	111° 55.36'	1293	EpiSensor	Basalt	Digital	NSMP, ANSS
7203	Bonneville Golf Course Salt Lake City, UT	HN[ZEN]	3	NP	40° 44.81'	111° 49.63'	1457	EpiSensor	Basalt	Digital	NSMP, ANSS
7208	SR 201/I-80 Bridge Array, Salt Lake City, UT	EN[ZEN]	3	NP	40° 43.38'	111° 54.43'	1291	EpiSensor	K2	Digital	NSMP, ANSS
7212	Annex Bldg., Weber State University, Ogden, UT	HN[ZEN]	3	NP	41° 11.75'	111° 56.50'	1422	EpiSensor	Basalt	Digital	NSMP, ANSS
7223	Dixie State College St. George, UT	HN[ZEN]	3	NP	37° 06.02'	113° 33.94'	815	EpiSensor	Etna	Digital	NSMP, ANSS
7224	Southern Utah University Cedar City, UT	HN[ZEN]	3	NP	37° 40.35'	113° 04.29'	1782	EpiSensor	Basalt	Digital	NSMP, ANSS
7225	City Maintenance Yard Beaver, UT	HN[ZEN]	3	NP	38° 17.01'	112° 38.32'	1808	EpiSensor	Etna	Digital	NSMP, ANSS
7226	UDOT IT Radio Shop Richfield, UT	HN[ZEN]	3	NP	38° 45.43'	112° 05.26'	1616	FBA23	Basalt	Digital	NSMP, ANSS
7227	City Maintenance Yard Gunnison, UT	HN[ZEN]	3	NP	39° 09.35'	111° 49.17'	1568	EpiSensor	Basalt	Digital	NSMP, ANSS
7228	Juab School District Nephi, UT	HN[ZEN]	3	NP	39° 43.27'	111° 49.49'	1576	EpiSensor	Basalt	Digital	NSMP, ANSS
7229	City Maintenance Shop Santaquin, UT	HN[ZEN]	3	NP	39° 58.35'	111° 47.58'	1520	EpiSensor	Etna	Digital	NSMP, ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
7232	City Parks & Recreation Office Tremonton, UT	HN[ZEN]	3	NP	41° 43.13'	112° 10.91'	1320	EpiSensor	Etna2	Digital	NSMP, ANSS
AHID	Auburn, ID	BH[ZEN]	3	US	42° 45.92'	111° 06.02'	1960	*	*	Digital	USGS
ALP	Alpine Fire Station, Alpine, UT	EN[ZEN]	3	UU	40° 27.26'	111° 46.61'	1510	EpiSensor	Etna2	Digital	ANSS
ALT	Alta City Offices, Alta, UT	EN[ZEN]	3	UU	40° 35.42'	111° 38.25'	2635	EpiSensor	Etna2	Digital	ANSS
AMF	Tri-Cities Golf Course American Fork, UT	EN[ZEN]	3	UU	40° 24.11'	111° 47.27'	1445	EpiSensor	Basalt	Digital	ANSS
ANMO	Albuquerque, NM	BH[ZEN]	3	IU	34° 57.01'	106° 27.61'	1743	*	*	Digital	USGS
ARGU	Argyle Ridge, UT	EHZ	1	UU	39° 49.37'	110° 32.62'	2828	S13	PSN	Analog	Utah
ARUT	Antelope Range, UT	EHZ	1	UU	37° 47.28'	113° 26.42'	1646	L4C	PSN	Analog	Utah
AVE	Avenues, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.47'	111° 51.83'	1387	EpiSensor	Etna2	Digital	ANSS
B206	Canyon206bwy2008, Yellowstone, WY	EH[ZEN]	3	PB	44° 46.66'	110° 30.70'	2400	IESE-S2	Q330	Digital	PBO
B207	Madisn207bwy2007, Yellowstone, WY	EH[ZEN]	3	PB	44° 37.14'	110° 50.91'	2182	IESE-S2	Q330	Digital	PBO
B208	Lakejn208bwy2008, Yellowstone, WY	EH[ZEN]	3	PB	44° 33.61'	110° 24.09'	2406	IESE-S2	Q330	Digital	PBO
B944	Grantt944bwy2008, Yellowstone, WY	EH[ZEN]	3	PB	44° 23.38'	110° 32.63'	2365	IESE-S2	Q330	Digital	PBO
B945	Panthr944swy2008, Yellowstone, WY	EH[ZEN]	3	PB	44° 53.64'	110° 44.65'	2249	IESE-S2	Q330	Digital	PBO
B950	Norris950bwy2013, Yellowstone, WY	EH[ZEN]	3	PB	44° 42.77'	110° 40.71'	2328	IESE-S2	Q330	Digital	PBO
BCE	Book Cliffs East, UT	EHZ	1	UU	39° 36.79'	110° 24.51'	2666	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BCS	Brigham City Maintenance Shop Brigham City, UT	EN[ZEN]	3	UU	41° 30.71'	112° 01.98'	1303	EpiSensor	Etna2	Digital	ANSS
BCU	Brigham City, UT	EN[ZEN]	3	UU	41° 30.74'	111° 58.93'	1676	EpiSensor	Etna2	Digital	ANSS
BCW	Book Cliffs West, UT	EHZ	1	UU	39° 43.82'	110° 44.55'	2614	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BEI	Bear River Range, ID	EHZ	1	UU	42° 07.00'	111° 46.94'	1859	L4C	PSN	Analog	USGS
BES	Bates Elementary School Ogden, UT	EN[ZEN]	3	UU	41° 19.10'	111° 57.26'	1455	EpiSensor	K2	Digital	ANSS
BGMT	Barton Gulch, MT	EHZ	1	MB	45° 14.00'	112° 02.43'	2172	*	*	Analog	MBMT
BGU	Big Grassy Mountain, UT	EN[ZEN]	3	UU	40° 55.53'	113° 01.79'	1640	EpiSensor	Q330	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
BHU	Blowhard Mountain, UT	EH[ZEN]	3	UU	37° 35.63'	112° 51.72'	3250	S13	PSN	Analog	Utah
BHUT	Beaver High School, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
BMUT	Black Mountain, UT	EHZ	1	UU	41° 57.49'	111° 14.05'	2243	S13	PSN	Analog	USGS
BOZ	Bozeman, MT	BH[ZEN]	3	US	45° 38.82'	111° 37.78'	1589	*	*	Digital	USGS
BRPU	Butcher Ranch, Price, UT	HH[ZEN]	3	UU	39° 28.38'	110° 44.40'	1687	Trillium 240	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BRWY	Blue Rim, WY	HH[ZEN]	3	UU	41° 37.32'	109° 30.19'	2098	Trillium 120	Centaur	Digital	Utah
BSS	Butlerville Substation Salt Lake City, UT	EN[ZEN]	3	UU	40° 37.45'	111° 49.37'	1411	EpiSensor	Etna2	Digital	ANSS
BSUT	Blindstream Canyon, Hanna, UT	HH[ZEN]	3	UU	40° 32.19'	110° 45.67'	3211	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BTU	Barney Top, UT	EHZ	1	UU	37° 45.34'	111° 52.46'	3235	S13	PSN	Analog	Utah
BW06	Boulder, WY	BH[ZEN]	3	US	42° 46.00'	109° 33.50'	2224	*	*	Digital	USGS
BYP	Brigham Young Park Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.26'	111° 53.23'	1323	EpiSensor	Etna2	Digital	ANSS
BZMT	Bozeman Pass, MT	EHZ	1	MB	45° 38.89'	110° 47.80'	1905	*	*	Analog	MBMT
CAPU	Capitol, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.71'	111° 53.40'	1384	EpiSensor	Etna2	Digital	ANSS
CCPU	Cedar City Park, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
CCUT	Cedar City, UT	HH[ZEN]	3	UU	37° 33.04'	113° 21.77'	2124	STS-2	Centaur	Digital	USGS
		EN[ZEN]	3					R147			
CFS	Copperton Fire Station, Copperton, UT	EN[ZEN]	3	UU	40° 33.96'	112° 05.61'	1654	EpiSensor	Etna2	Digital	ANSS
CHS	Copper Hills High School, West Jordan, UT	EN[ZEN]	3	UU	40° 35.68'	112° 01.03'	1460	EpiSensor	Etna2	Digital	ANSS
CMI	Centennial Mountains, ID	EHZ	1	RC	44° 30.99'	111° 37.05'	2267	L4C	*	Analog	BYU-I
COMI	Craters of the Moon, ID	EHZ	1	IE	43° 27.72'	113° 35.64'	1890	*	*	Digital	INL
COY	Coyote Canyon, Tooele Valley, UT	EN[ZEN]	3	UU	40° 39.56'	112° 14.34'	1572	EpiSensor	Etna2	Digital	ANSS
CRLU	Curley Ranch, La Sal, UT	EHZ	1	UU	38° 17.50'	109° 15.64'	2035	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
CRMT	Chrome Mountain, MT	EHZ	1	MGB	45° 27.35'	110° 08.41'	2941	*	*	Analog	MBMT
CTU	Camp Tracy, UT	HH[ZEN]	3	UU	40° 41.55'	111° 45.02'	1731	Titan	Centaur	Digital	USGS
		EN[ZEN]	3					Trillium 120			
CVH	Cedar City, Canyon View High School, UT	EN[ZEN]	3	UU	37° 42.91'	113° 03.85'	1724	PA-23	SMART-24	Digital	Utah
CVRU	Castle Valley Ranch, Emery, UT	HH[ZEN]	3	UU	38° 55.06'	111° 10.30'	1912	STS-2	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
CWR	Coldwater Ranch, Paradise, UT	EN[ZEN]	3	UU	41° 34.90'	111° 46.89'	1837	EpiSensor	Etna2	Digital	ANSS
CWU	Camp Williams, UT	EHZ	1	UU	40° 26.75'	112° 06.13'	1945	L4C	PSN	Analog	USGS
DAU	Daniels Canyon, UT	EHZ	1	UU	40° 24.75'	111° 15.35'	2771	S13	PSN	Analog	USGS
DBD	Des Bee Dove, UT	EHZ	1	UU	39° 18.82'	111° 05.55'	2265	L4C	PSN	Analog	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
DCM	Dugout Coal Mine, UT	EHZ	1	UU	39° 41.70'	110° 35.00'	2537	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	EHZ	1	UU	40° 24.82'	111° 31.61'	1829	L4C	PSN	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.61'	111° 57.65'	1282	EpiSensor	Etna2	Digital	ANSS
DUG	Dugway, UT	BH[ZEN]	3	US	40° 11.70'	112° 48.80'	1477	STS-2	Q330	Digital	USGS
DVCI	Devils Canyon, ID	HH[ZEN]	3	IE	44° 22.99'	114° 02.31'	1997	Trillium 120	Q330	Digital	INL
DWU	Dry Willow, UT	EHZ	1	UU	38° 06.32'	112° 59.85'	2270	S13	PSN	Analog	Utah
ECRI	Eagle Creek, ID	EHZ	1	IE	43° 03.24'	111° 22.26'	2086	*	*	Digital	INL
ECUT	Ebbs Canyon, Scipio, UT	HH[ZEN]	3	UU	39° 10.30'	112° 07.99'	2136	Trillium 120	Centaur	Digital	Utah
EKU	East Kanab, UT	EHZ	1	UU	37° 04.48'	112° 29.81'	1829	S13	PSN	Analog	Utah
ELE	East Layton Elementary School, East Layton, UT	EN[ZEN]	3	UU	41° 04.84'	111° 55.09'	1444	EpiSensor	Etna2	Digital	ANSS
ELK	Elko, NV	BH[ZEN]	3	US	40° 44.69'	115° 14.33'	2210	*	*	Digital	USGS
ELU	Electric Lake, UT	EHZ	1	UU	39° 38.41'	111° 12.23'	2970	L4C	PSN	Analog	Utah
EMF	Eagle Mountain Gas Tap, UT	EN[ZEN]	3	UU	40° 16.89'	111° 59.92'	1487	EpiSensor	Etna2	Digital	ANSS
EMU	Emma Park, UT	EH[ZEN]	3	UU	39° 48.84'	110° 48.92'	2268	S13	PSN	Analog	USGS
		EN[ZEN]	3					FBA23	K2	Digital	Utah
EOCU	EOC, State Capitol Campus, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.62'	111° 53.95'	1356	EpiSensor	Basalt	Digital	Utah
EPU	East Promontory, UT	EHZ	1	UU	41° 23.49'	112° 24.53'	1436	L4C	PSN	Analog	USGS
ETW	Elwood Town Hall, Elwood, UT	EN[ZEN]	3	UU	41° 40.15'	112° 08.53'	1305	EpiSensor	Etna2	Digital	ANSS
FLU	Fool's Peak, UT	EHZ	1	UU	39° 22.69'	112° 10.29'	1951	18300	Basalt	Digital	USGS
		EN[ZEN]	3								
FLWY	Flagg Ranch, WY	BH[Z12]	3	IW	44° 04.96'	110° 41.96'	2078	3ESP	RT-130	Digital	ANSS
FMC	FMC Mine, Green River, WY	HH[ZEN]	3	UU	41° 24.49'	109° 46.67'	1903	40T	RT-130	Digital	Utah
FOR1	Milford Southwest, UT	HH[ZEN]	3	UU	38° 22.13'	113° 05.63'	1642	Trillium 120	Centaur	Digital	Utah
FOR2	Blundell East, UT	HH[ZEN]	3	UU	38° 29.70'	112° 52.34'	1760	Trillium 120	Centaur	Digital	Utah
FOR5	SW Antelope Mountain, UT	HH[ZEN]	3	UU	38° 34.18'	112° 51.27'	1742	Trillium 120	Centaur	Digital	Utah
FOR6	FORGE, UT	HH[ZEN]	3	UU	38° 29.39'	112° 47.25'	2421	Trillium 120	Centaur	Digital	Utah
FOR7	FORGE, UT	HH[ZEN]	3	UU	38° 25.24'	112° 51.16'	1964	Trillium 120	Centaur	Digital	Utah
FOR8	FORGE, UT	HH[ZEN]	3	UU	38° 31.72'	113° 04.68'	1654	Trillium 120	Centaur	Digital	Utah
FORB	Blundell, Power Plant, UT	EN[ZEN]	3	UU	38° 29.41'	112° 51.30'	1845	EpiSensor	Basalt	Digital	Utah
FORK	Blundell, UT	EH[Z12]	3	UU	38° 30.07'	112° 53.19'	1408	Omni-2400	Obsidian	Digital	Utah
		GH[Z12]	3								
		EN[Z12]	3								
		GN[Z12]	3								
FORU	South Mineral Mountains, UT	HH[ZEN]	3	UU	38° 27.53'	112° 51.68'	1840	40T	ANSS-130	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
FORW	Milford Wind Farm, UT	EN[ZEN]	3	UU	38° 33.76'	112° 56.21'	1516	EpiSensor	Obsidian	Digital	Utah
FPU	Francis Peak, UT	EHZ	1	UU	41° 01.58'	111° 50.21'	2816	L4C	PSN	Analog	USGS
FSB1	FORGE surface borehole 1, UT	DN[Z12]	3	UU	38° 29.10'	112° 53.48'	1697	Titan	Centaur	Digital	Utah
		EN[Z12]	3					Compact			
		HH[Z12]	3								
FSB2	FORGE surface borehole 2, UT	DN[Z12]	3	UU	38° 30.44'	112° 54.98'	1587	Titan	Centaur	Digital	Utah
		EN[Z12]	3					Compact			
		HH[Z12]	3								
FSB3	FORGE surface borehole 3, UT	DN[Z12]	3	UU	38° 30.80'	112° 52.84'	1701	Titan	Centaur	Digital	Utah
		EN[Z12]	3					Compact			
		HH[Z12]	3								
FSB4	FORGE surface borehole 4, UT	HH[Z12]	3	UU	38° 25.54'	112° 56.02'	1578	Compact	Centaur	Digital	Utah
FSB5	FORGE surface borehole 5, UT	HH[Z12]	3	UU	38° 30.19'	113° 00.83'	1474	Compact	Centaur	Digital	Utah
FSB6	FORGE surface borehole 6, UT	HH[Z12]	3	UU	38° 36.12'	112° 56.47'	1462	Compact	Centaur	Digital	Utah
FSU	Fish Springs, UT	EHZ	1	UU	39° 43.35'	113° 23.48'	1487	18300	PSN	Analog	Utah
FTT	Fire Training Tower, Magna, UT	EN[ZEN]	3	UU	40° 41.16'	112° 04.99'	1381	EpiSensor	Etna2	Digital	ANSS
GAWY	Genesis Alkali Granger, WY	HH[ZEN]	3	UU	41° 44.43'	109° 51.13'	2011	Trillium 120	Centaur	Digital	Utah
GBI	Big Grassy Butte, ID	HH[ZEN]	3	IE	43° 59.22'	112° 03.78'	1541	*	*	Digital	INL
GCAZ	Grand Canyon, AZ	EHZ	1	AR	36° 03.51'	112° 11.02'	2072	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	EN[ZEN]	3	UU	40° 36.04'	112° 28.48'	1320	EpiSensor	Etna2	Digital	ANSS
GMU	Granite Mountain, UT	EH[ZEN]	3	UU	40° 34.53'	111° 45.79'	1829	S13	PSN	Analog	USGS
GRII	Grays Lake, ID	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INL
GZU	Grizzly Peak, UT	EH[ZEN]	3	UU	41° 25.53'	111° 58.50'	2646	S13	Obsidian	Digital	USGS
		EN[ZEN]	3					EpiSensor			
HAFB	Hill Air Force Base, Hill AFB, UT	EN[ZEN]	3	UU	41° 07.07'	111° 58.55'	1471	EpiSensor	Etna2	Digital	Utah
HCSU	Hobble Creek, Springville, UT	EHZ	1	UU	40° 12.40'	111° 30.14'	1789	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
HDU	Hyde Park, UT	EHZ	1	UU	41° 48.18'	111° 45.99'	1807	L4C	PSN	Analog	USGS
HEB	Heber, UT	EHZ	1	UU	40° 30.09'	111° 20.15'	1925	S13	PSN	Analog	Utah
HER	Herriman Fire Station Herriman, UT	EN[ZEN]	3	UU	40° 30.94'	112° 01.85'	1502	EpiSensor	Etna2	Digital	ANSS
HES	Hooper Elementary School Hooper, UT	EN[ZEN]	3	UU	41° 09.89'	112° 07.30'	1292	EpiSensor	K2	Digital	ANSS
HHAI	Hell's Half Acre, ID	HH[Z12]	3	IE	43° 17.70'	112° 22.74'	1371	*	*	Digital	INL
HHS	Hurricane High School, UT	EN[ZEN]	3	UU	37° 10.43'	113° 17.74'	987	EpiSensor	Etna2	Digital	Utah
HLID	Hailey, ID	BH[ZEN]	3	US	43° 33.75'	114° 24.83'	1772	*	*	Digital	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
HLJ	Hailstone, UT	EHZ	1	UU	40° 36.64'	111° 24.05'	1931	S13	PSN	Analog	Utah
		EN[ZEN]	3					FBA23	K2	Digital	
HMU	Henry Mountain, UT	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
HRU	Hogsback Ridge, UT	EHZ	1	UU	40° 47.67'	111° 53.14'	1620	L4C	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Obsidian	Digital	ANSS
HTU	Hoyt, UT	EHZ	1	UU	40° 40.52'	111° 13.21'	2576	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
HVU	Hansel Valley, UT	HH[ZEN]	3	UU	41° 46.78'	112° 46.50'	1609	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			
HWUT	Hardware Ranch, UT	BH[ZEN]	3	US	41° 36.41'	111° 33.91'	1830	*	*	Digital	USGS
IAE	Cedar City, Iron County Adult Education, UT	EN[ZEN]	3	UU	37° 39.91'	113° 40.02'	1807	EpiSensor	Etna	Digital	Utah
ICF	International Center Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.69'	112° 01.72'	1281	EpiSensor	Etna2	Digital	ANSS
ICU	Indian Springs Canyon, UT	EHZ	1	UU	37° 08.98'	113° 55.41'	1451	S13	PSN	Analog	Utah
IMU	Iron Mountain, UT	EHZ	1	UU	38° 37.99'	113° 09.50'	1833	L4C	PSN	Analog	Utah
IMW	Indian Meadows, WY	BH[ZEN]	3	IW	43° 53.58'	110° 56.58'	2670	3ESP	RT-130	Digital	ANSS
ISCO	Idaho Springs, CO	BH[ZEN]	3	US	39° 47.98'	105° 36.80'	2743	STS-2	Q330	Digital	ANSS
JRP	Jordan River State Park Salt Lake City, UT	EN[ZEN]	3	UU	40° 49.54'	111° 56.66'	1284	EpiSensor	Etna2	Digital	ANSS
JVW2	Murray City Parkway Golf Course, Murray, UT	EN[ZEN]	3	UU	40° 37.90'	111° 55.15'	1310	EpiSensor	Etna2	Digital	ANSS
KCBD	Kane County Bus Depot, UT	EN[ZEN]	3	UU	37° 02.15'	112° 31.59'	1470	PA-23	SMART-24	Digital	Utah
KHUT	Kindman Hollow, UT	EHZ	1	UU	41° 43.29'	112° 01.78'	1829	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
KLJ	Keetley, UT	EHZ	1	UU	40° 37.85'	111° 24.30'	1992	S13	PSN	Analog	Utah
KNB	Kanab, UT	HH[ZEN]	3	UU	37° 01.00'	112° 49.34'	1715	Trillium 120	Centaur	Digital	Utah, ANSS, LLNL
		EN[ZEN]	3					EpiSensor			
LCMT	Little Creek Mountain, UT	HH[ZEN]	3	UU	37° 00.71'	113° 14.63'	1411	3T	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
		EN[ZEN]	3								
LCU	Little Cottonwood, UT	EN[ZEN]	3	UU	40° 34.41'	111° 47.91'	1571	EpiSensor	Etna2	Digital	ANSS
LDJ	Lady, UT	EHZ	1	UU	40° 34.89'	111° 24.52'	2217	S13	PSN	Analog	Utah
LEVU	Levan, UT	EHZ	1	UU	39° 30.39'	111° 48.88'	1996	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
LGC	Lakeside Golf Course Bountiful, UT	EN[ZEN]	3	UU	40° 54.04'	111° 54.51'	1292	EpiSensor	Etna2	Digital	ANSS
LHUT	Little Humpy Peak, UT	EHZ	1	UU	40° 53.49'	110° 59.78'	3084	S13	PSN	Analog	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
LIUT	Lila Canyon, UT	HH[ZEN]	3	UU	39° 25.45'	110° 19.51'	2178	Trillium 120	Centaur	Digital	Utah
LKC	Lee Kay Hunter Education Center Magna, UT	EN[ZEN]	3	UU	40° 43.62'	112° 02.14'	1289	EpiSensor	Etna2	Digital	ANSS
LKWY	Lake, WY	BH[ZEN]	3	US	44° 33.91'	110° 24.00'	2424	*	*	Digital	USGS
LMUT	Lake Mountain, UT	EN[ZEN]	3	UU	40° 15.69'	111° 55.69'	2330	EpiSensor	Etna2	Digital	ANSS
LOHW	National Elk Refuge, WY	BH[Z12]	3	IW	43° 36.76'	110° 36.30'	2245	3ESP	RT-130	Digital	ANSS
LRG	Logan River Golf Course Logan, UT	EN[ZEN]	3	UU	41° 42.82'	111° 51.08'	1362	EpiSensor	Etna2	Digital	ANSS
LSU	Lake Shores, UT	EN[ZEN]	3	UU	40° 07.94'	111° 43.80'	1375	EpiSensor	Etna2	Digital	ANSS
LTU	Little Mountain, UT	EHZ	1	UU	41° 35.51'	112° 14.83'	1585	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
MAB	Mapleton Ambulance Building Mapleton, UT	EN[ZEN]	3	UU	40° 07.85'	111° 34.67'	1440	EpiSensor	Etna2	Digital	ANSS
MCID	Moose Creek, ID	EHZ	1	WY	44° 11.45'	111° 11.03'	2137	L4C	PSN	Analog	USGS
MCU	Monte Cristo Peak, UT	EN[ZEN]	3	UU	41° 27.70'	111° 30.45'	2664	Titan	Centaur	Digital	USGS
		HH[ZEN]	3					Trillium 120			
MGCU	Grand County Courthouse, Moab, UT	EN[ZEN]	3	UU	38° 34.46'	109° 32.89'	1241	EpiSensor	K2	Digital	Utah
MHD	Mile High Drive, UT	EHZ	1	UU	40° 39.64'	111° 48.05'	1597	Ranger	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
MHS2	Milford High School, UT	EN[ZEN]	3	UU	38° 23.97'	113° 00.78'	1529	EpiSensor	Etna2	Digital	Utah
MID	Middle Canyon, UT	EN[ZEN]	3	UU	40° 31.04'	112° 15.28'	1722	EpiSensor	Etna2	Digital	ANSS
MLI	Malad Range, ID	EHZ	1	UU	42° 01.61'	112° 07.53'	1896	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
MMU	Miners Mountain, UT	EHZ	1	UU	38° 11.57'	111° 17.66'	2387	S13	PSN	Analog	Utah
MOMT	Monida, MT	EHZ	1	MB	44° 35.60'	112° 23.66'	2220	*	*	Analog	MBMT
MOOW	Moose Ponds, WY	BH[Z12]	3	IW	43° 44.92'	110° 44.69'	2128	*	*	Digital	ANSS
MOR	Morgan, UT	EN[ZEN]	3	UU	41° 02.77'	111° 39.94'	1633	Applied Mems	ANSS-130	Digital	ANSS
MOUT	Mount Ogden, UT	EN[ZEN]	3	UU	41° 11.94'	111° 52.73'	2743	Titan	Centaur	Digital	USGS
		HH[ZEN]	3					Trillium 120			
MPU	Maple Canyon, UT	EN[ZEN]	3	UU	40° 00.93'	111° 38.00'	1909	EpiSensor	Centaur	Digital	ANSS USGS
		HH[ZEN]	3					Observer			
MSU	Marysvale, UT	EHZ	1	UU	38° 30.74'	112° 10.63'	2105	18300	PSN	Analog	Utah
MTPU	Mt. Pierson, UT	EN[ZEN]	3	UU	38° 02.49'	112° 11.06'	3112	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
MTUT	Morton Thiokol, UT	EHZ	1	UU	41° 42.55'	112° 27.28'	1373	L4C	PSN	Analog	USGS
MVCO	Mesa Verde, CO	BH[ZEN]	3	US	37° 12.62'	108° 29.92'	2170	STS-2	Q330	Digital	ANSS
MVU	Marysvale, UT	BH[ZEN]	3	LB	38° 30.22'	112° 12.74'	2240	*	*	Digital	Sandia

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
NAI	North Antelope Island, UT	EN[ZEN]	3	UU	41° 00.97'	112° 13.68'	1472	EpiSensor	Etna2	Digital	ANSS
NAIU	North Antelope Island, UT	EHZ	1	UU	41° 00.97'	112° 13.68'	1472	L4C	PSN	Analog	USGS
NLU	North Lily Mine, UT	EN[ZEN]	3	UU	39° 57.29'	112° 04.50'	2036	EpiSensor	Centaur	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
NMU	North Mineral Mountain, UT	EH[ZEN]	3	UU	38° 30.99'	112° 51.00'	1853	S13	PSN	Analog	Utah
NOQ	North Oquirrh Mountains, UT	EN[ZEN]	3	UU	40° 39.16'	112° 07.26'	1628	Titan	Centaur	Digital	ANSS
		HH[ZEN]	3					Trillium 120		Digital	USGS
NPI	North Pocatello, ID	EHZ	1	UU	42° 08.84'	112° 31.10'	1640	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
O20A	White River City, CO	BH[ZEN]	3	N4	40° 08.09'	108° 14.50'	1915	STS-2	Q330	Digital	NCF
OCP	Orem City Park, Orem, UT	EN[ZEN]	3	UU	40° 17.87'	111° 41.44'	1464	EpiSensor	Etna2	Digital	ANSS
OF2	Ogden Fire Station ° 2 Ogden, UT	EN[ZEN]	3	UU	41° 13.70'	111° 56.92'	1358	EpiSensor	Etna2	Digital	ANSS
OPS	Ogden Public Safety Building, Ogden, UT	EN[ZEN]	3	UU	41° 13.72'	111° 58.54'	1317	EpiSensor	Etna2	Digital	ANSS
OSS	Oquirrh Sub Station, UT	EN[ZEN]	3	UU	40° 33.92'	112° 01.73'	1503	EpiSensor	Etna2	Digital	ANSS
OWUT	Old Woman Plateau, UT	EHZ	1	UU	38° 46.80'	111° 25.42'	2568	L4C	PSN	Analog	Utah
PCCW	Pine Creek, Cokeville, WY	EHZ	1	UU	42° 05.97'	110° 52.36'	1996	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
PCL	Plain City Landfill Plain City, UT	EN[ZEN]	3	UU	41° 18.60'	112° 06.00'	1290	EpiSensor	Etna2	Digital	ANSS
PCR	Park City Recreation Center, Park City, UT	EN[ZEN]	3	UU	40° 39.25'	111° 30.19'	2100	EpiSensor	Etna2	Digital	ANSS
PEUT	Pahvant Elementary School, Richfield, UT	EN[ZEN]	3	UU	38° 46.55'	112° 05.32'	1644	PA-23	SMART-24	Digital	Utah
PGA	Page, AZ	EHZ	1	AR	36° 54.34'	111° 16.86'	1272	*	*	Analog	NAU
PGC	Pleasant Grove Creek, UT	EN[ZEN]	3	UU	40° 22.71'	111° 42.62'	1707	EpiSensor	Etna2	Digital	ANSS
PIO	Pioche, NV	HH[ZEN]	3	NN	37° 56.83'	114° 29.48'	1887	Trillium 120	Q330	Digital	UNR
PKCU	Pink Cliffs, UT	HH[ZEN]	3	UU	37° 26.63'	112° 18.66'	2834	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
PNSU	Preston Nutter Ranch, Sunnyside, UT	HH[ZEN]	3	UU	39° 37.67'	110° 14.74'	2743	Trillium 240	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
PRN	Pahroc, Range, NV	HH[ZEN]	3	NN	37° 24.40'	115° 03.05'	1402	Trillium 120	ANSS-130	Digital	UNR
PSUT	Pine Spring, UT	HH[ZEN]	3	UU	38° 32.02'	113° 51.28'	1999	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
PTI	Pocatello, ID	HH[ZEN]	3	IE	42° 52.20'	112° 22.21'	1670	*	*	Digital	INL
PTU	Portage, UT	EHZ	1	UU	41° 55.76'	112° 19.48'	2192	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
PV05	E. Island Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 08.87'	108° 50.08'	2142	*	*	Digital	USBR
PV11	Davis Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 17.96'	108° 52.33'	1881	*	*	Digital	USBR
PV15	Pinto Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 20.51'	108° 28.66'	2280	*	*	Digital	USBR
PV21	Cone Mountain, Paradox Basin, CO	HH[ZEN]	3	RE	38° 33.67'	108° 58.50'	2235	*	*	Digital	USBR
Q12A	Willow Creek Ranch, Ely, NV	HH[ZEN]	3	NN	39° 02.40'	114° 19.88'	1625	Trillium 120	Q330	Digital	UNR
QBHW	Bridle Trail Rd, Draper, UT	HN[ZEN]	3	UU	40° 30.23'	111° 51.35'	1400	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCSP	White Pine Dr., Tooele, UT	HN[ZEN]	3	UU	40° 32.75'	112° 16.56'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCWC	E 2100 S, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.54'	111° 49.94'	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QDPS	Dept of Public Safety Univ. of Utah, Salt Lake City, UT	HN[ZEN]	3	UU	40° 45.60'	111° 50.46'	1460	Gsig-AC63	Gsig-GMS	Digital	ANSS
QFTG	N 450 E St., Springville, UT	HN[ZEN]	3	UU	40° 10.42'	111° 36.12'	1395	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJHW	Red Rock Ranch, Teton County, WY	HN[ZEN]	3	UU	43° 34.99'	110° 24.65'	2169	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJMH	S 900 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 42.21'	111° 51.97'	1312	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJOT	Whileaway Rd., Snyderville, UT	HN[ZEN]	3	UU	40° 44.50'	111° 41.68'	1977	Gsig-AC63	Gsig-GMS	Digital	ANSS
QKSL2	Lehi, UT	HN[ZEN]	3	UU	40° 15.98'	111° 50.07'	1371	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLIN	884 E 490 N, Lindon, UT	HN[ZEN]	3	UU	40° 20.83'	111° 29.63'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLMT	Earthquake Lake, MT	EHZ	1	MB	44° 49.84'	111° 25.80'	2064	*	*	Analog	MBMT
QMDS	S 2600 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.74'	111° 48.97'	1405	Gsig-AC63	Gsig-GMS	Digital	ANSS
QNRL	E 500 N, Logan, UT	HN[ZEN]	3	UU	40° 44.44'	111° 49.49'	1407	Gsig-AC63	Gsig-GMS	Digital	ANSS
QOGD	1723 N 900 E, North Ogden, UT	HN[ZEN]	3	UU	41° 17.38'	111° 57.11'	1361	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPAY	N 300 E Payson, UT	HN[ZEN]	3	UU	40° 03.18'	111° 43.70'	1404	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPML	S Whitesides St., Layton, UT	HN[ZEN]	3	UU	40° 03.47'	111° 57.23'	1334	Gsig-AC63	Gsig-GMS	Digital	ANSS
QRJG	N 1450 E, Provo, UT	HN[ZEN]	3	UU	40° 15.65'	111° 37.96'	1530	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSAR2	Saratoga Springs, UT	HN[ZEN]	3	UU	40° 20.17'	111° 55.43'	1420	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSPA	520 S, Spanish Fork, UT	HN[ZEN]	3	UU	40° 17.47'	111° 52.95'	1413	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSTV	S City Vistas Way, Kearns, UT	HN[ZEN]	3	UU	40° 40.25'	112° 02.18'	1416	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSUN	1412 N 350 W, Sunset, UT	HN[ZEN]	3	UU	41° 08.04'	112° 01.97'	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QUGS	240 N Redwood Road, SLC, UT	HN[ZEN]	3	UU	40° 46.45'	111° 56.32'	1300	Gsig-AC63	Gsig-GMS	Digital	ANSS
R11B	Troy Canyon, Currant, NV	HH[ZEN]	3	NN	38° 20.93'	115° 35.12'	1756	STS-5A	Q330	Digital	UNR
RBU	Red Butte Canyon, UT	EHZ	1	UU	40° 46.85'	111° 48.50'	1676	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
RCJ	Ross Creek, UT	EHZ	1	UU	40° 39.51'	111° 26.36'	2090	S13	PSN	Analog	Utah
RDMU	Red Mountain, UT	HH[ZEN]	3	UU	40° 34.25'	109° 34.17'	2087	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
REDW	Red-Top Meadows, WY	BH[ZEN]	3	IW	43° 21.74'	110° 51.18'	2322	3ESP	RT-130	Digital	ANSS
REUT	Washington Fields, Riverside Elementary School, UT	EN[ZEN]	3	UU	37° 05.86'	113° 31.16'	791	PA-23	SMART-24	Digital	Utah
RLMT	Red Lodge, MT	BH[12Z]	3	US	45° 07.33'	109° 16.04'	2086	STS-2	Q330	Digital	ANSS
ROA	Roan Cliffs, UT	EHZ	1	UU	39° 39.69'	110° 21.88'	2962	S13	PSN	Analog	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
RPF	Rose Park Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.52'	111° 55.22'	1287	Applied Mems	ANSS-130	Digital	ANSS
RRCU	Rees Ranch, Coalville, UT	EHZ	1	UU	40° 53.21'	111° 26.22'	2028	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
RSUT	Red Spur, UT	EHZ	1	UU	41° 38.31'	111° 25.90'	2682	S13	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
RWWY	Rawlins, WY	BH[ZEN]	3	IW	41° 41.33'	107° 12.61'	2402	3ESP	RT-130	Digital	ANSS
SAIU	South Antelope Island, UT	EHZ	1	UU	40° 51.29'	112° 10.89'	1384	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SCC	Salt Lake Community College, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 40.49'	111° 56.37'	1306	EpiSensor	Etna2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	EN[ZEN]	3	UU	41° 05.73'	112° 02.81'	1321	EpiSensor	Etna2	Digital	ANSS
SCUT	Santa Clara, UT	EN[ZEN]	3	UU	37° 07.69'	113° 38.68'	837	EpiSensor	Etna2	Digital	Utah
SCY	Salem City Yard, Salem, UT	EN[ZEN]	3	UU	40° 03.47'	111° 41.14'	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	EHZ	1	UU	39° 10.94'	111° 38.68'	2357	18300	PSN	Analog	USGS
SHP	Sheep Range, NV	HH[ZEN]	3	NN	36° 30.33'	115° 09.61'	1590	Trillium 120	ANSS-130	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	EN[ZEN]	3	UU	40° 33.37'	111° 56.34'	1356	EpiSensor	Obsidian	Digital	ANSS
SKII	Z, ID	HH[ZEN]	3	IE	43° 19.21'	111° 55.79'	2082	*	*	Digital	INL
SMAZ	Slide Mountain, AZ	EHZ	1	AR	36° 19.29'	113° 10.14'	2200	*	*	Analog	NAU
SNO	Snow College, UT	EHZ	1	UU	39° 19.18'	111° 32.33'	2503	Ranger	PSN	Analog	Utah
SNOW	Snowking Mountain, WY	BH[ZEN]	3	IW	43° 27.75'	110° 45.31'	2390	*	*	Digital	ANSS
SNUT	Stansbury North, UT	EHZ	1	UU	40° 53.10'	112° 30.52'	1652	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SPR2	Wildlife Resource Center Springville, UT	EN[ZEN]	3	UU	40° 10.95'	111° 36.69'	1382	EpiSensor	Etna2	Digital	ANSS
SPR3	Spring Creek 3, NV	HH[ZEN]	3	NN	38° 59.93'	114° 19.88'	2815	Trillium 120	RT-130	Digital	UNR
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	EN[ZEN]	3	UU	40° 38.97'	112° 18.95'	1293	EpiSensor	Etna2	Digital	ANSS
SPU	South Promontory Point, UT	EN[ZEN]	3	UU	41° 18.52'	112° 26.95'	2086	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
SRU	San Rafael Swell, UT	EHZ	1	UU	39° 06.65'	110° 31.43'	1804	S13	PSN	Analog	Utah, ANSS, IRIS
		HH[ZEN]	3					STS-2	ANSS-130	Digital	
		EN[ZEN]	3					EpiSensor			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SSC	Sandy Senior Center Sandy, UT	EN[ZEN]	3	UU	40° 34.89'	111° 51.35'	1414	EpiSensor	Etna2	Digital	ANSS
SUU	Santaquin Canyon, UT	EH[ZEN]	3	UU	39° 53.29'	111° 47.45'	2024	S13	Obsidian	Digital	USGS
		EN[ZEN]	3					EpiSensor			
SVWY	Solvay Mine, WY	HH[ZEN]	3	UU	41° 27.02'	109° 51.88'	1950	Trillium 120	Centaur	Digital	Utah
SWUT	Soap Wash, Delta, UT	EN[ZEN]	3	UU	39° 19.72'	113° 11.72'	1644	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
SZCU	Shurtz Canyon, UT	HH[ZEN]	3	UU	37° 35.72'	113° 05.25'	2026	3T	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
TCMU	Timpanogos Cave Mouth, UT	EHZ	1	UU	40° 26.26'	111° 42.71'	2045	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
TCRU	Three Creeks Reservoir, UT	HH[ZEN]	3	UU	38° 36.57'	112° 26.83'	2293	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
TCU	Toone Canyon, UT	EN[ZEN]	3	UU	41° 07.04'	111° 24.47'	2269	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
TCUT	Toone Canyon, UT	EHZ	1	UU	41° 07.07'	111° 24.51'	2320	L4C	PSN	Analog	USGS
TMI	Taylor Mountain, ID	EHZ	1	IE	43° 18.30'	111° 55.08'	2179	*	*	Digital	INL
TMU	Trail Mountain, UT	HH[ZEN]	3	UU	39° 17.79'	111° 12.49'	2731	Observer	ANSS-130	Digital	Utah, ANSS
		EN[ZEN]	3					EpiSensor			
TPAW	Teton Pass, WY	BH[ZEN]	3	IW	43° 29.41'	110° 57.04'	2512	3ESP	RT-130	Digital	ANSS
TPH	Tonopah, NV	BH[ZEN]	3	LB	38° 04.50'	117° 13.35'	1883	3ESP	Q330	Digital	Sandia
TPMT	Teepee Creek, MT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	BH[ZEN]	3	US	36° 56.93'	116° 14.97'	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	EN[ZEN]	3	UU	40° 25.81'	111° 54.13'	1383	EpiSensor	Etna2	Digital	ANSS
TRS	Tooele County Radio Shop, Tooele, UT	EN[ZEN]	3	UU	40° 30.83'	112° 18.63'	1568	EpiSensor	Etna2	Digital	ANSS
U15A	North Rim, AZ	BH[ZEN]	3	AE	36° 25.80'	112° 17.40'	2489	Trillium 240	Q330	Digital	AZGS
UHP	Utah Highway Patrol Farmington, UT	EN[ZEN]	3	UU	40° 59.47'	111° 53.88'	1295	EpiSensor	Etna2	Digital	ANSS
UTH	Uintah Town Hall, Uintah, UT	EN[ZEN]	3	UU	41° 08.65'	111° 55.52'	1389	EpiSensor	Etna2	Digital	ANSS
UUE	University of Utah EMCB Bldg. Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.09'	111° 50.77'	1449	EpiSensor	Etna2	Digital	ANSS
V12A	Nelson, NV	HH[ZEN]	3	NN	35° 44.00'	114° 51.07'	1098	Trillium 120	Q330	Digital	UNR
VEC	Valley Emergency Communications Center West Valley City, UT	EN[ZEN]	3	UU	40° 39.21'	112° 01.95'	1480	EpiSensor	Basalt	Digital	ANSS
VNL	Vernal, UT	EN[ZEN]	3	UU	40° 27.48'	109° 32.89'	1648	EpiSensor	Obsidian	Digital	Utah
VRUT	Veyo Road, Veyo, UT	HH[ZEN]	3	UU	37° 27.71'	113° 51.41'	1874	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
W13A	Hualapai Mountain Park, Kingman, AZ	BH[ZEN]	3	AE	35° 06.00'	113° 53.40'	1988	3T	Q330	Digital	AZGS
WBC	Weber Canyon, UT	EN[ZEN]	3	UU	41° 08.38'	111° 54.05'	1602	EpiSensor	Etna2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	EN[ZEN]	3	UU	41° 38.37'	111° 55.94'	1387	EpiSensor	Etna2	Digital	ANSS
WCO	Washington City Office Building, UT	EN[ZEN]	3	UU	37° 07.91'	113° 30.56'	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	EHZ	1	UU	38° 57.88'	112° 05.44'	2673	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WDO	Saint George, Washington County School District Office, UT	EN[ZEN]	3	UU	37° 06.46'	113° 35.19'	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.97'	111° 51.26'	1341	EpiSensor	Etna2	Digital	ANSS
WHS	West High School, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.51'	111° 53.93'	1301	EpiSensor	Etna2	Digital	ANSS
WMUT	West Mountain, UT	EHZ	1	UU	40° 04.60'	111° 50.00'	1981	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WPUT	Wasatch Plateau, UT	HH[ZEN]	3	UU	38° 59.85'	111° 21.53'	2618	Trillium 120	Taurus	Digital	Utah
WRP	Water Reclamation Plant Salt Lake City, UT	EN[ZEN]	3	UU	40° 48.82'	111° 55.87'	1286	EpiSensor	Etna2	Digital	ANSS
WTNK	7433 Soaring Heights, NV	HH[ZEN]	3	NN	36° 11.50'	115° 00.64'	676	3ESP	ANSS-130	Digital	UNR
WTU	Western Traverse Mountains, UT	EH[ZEN]	3	UU	40° 27.29'	111° 57.21'	1552	S13	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Etna2	Digital	
WUAZ	Wupatki, AZ	BH[ZEN]	3	US	35° 31.01'	111° 22.43'	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	EHZ	1	UU	41° 36.61'	111° 57.55'	1828	L4C	PSN	Analog	USGS
YDC	Denny Creek, MT	EHZ	1	WY	44° 42.51'	111° 14.60'	2025	L4C	PSN	Analog	USGS
YDD	Grant Junction, Yellowstone, WY	HH[ZEN]	3	WY	44° 24.00'	110° 34.80'	2400	STS-2	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			
YEE	East Entrance (YNP), WY	HH[ZEN]	3	WY	44° 29.12'	109° 53.81'	2270	Compact	Centaur	Digital	USGS
YFT	Old Faithful (YNP), WY	HH[ZEN]	3	WY	44° 27.05'	110° 50.24'	2292	Compact	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
YGC	Grayling Creek, MT	EHZ	1	WY	44° 47.77'	111° 06.45'	2075	L4C	PSN	Analog	USGS
YHB	Horse Butte, MT	EHZ	1	WY	44° 45.07'	111° 11.71'	2157	L4C	PSN	Analog	USGS
		HH[ZEN]	3					Compact Titan	ANSS-130	Digital	
		EN[ZEN]	3								
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120 Titan	Q330	Digital	
		EN[ZEN]	3								

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YHL	Hebgen Lake, MT	HH[ZEN]	3	WY	44° 51.05'	111° 10.98'	2691	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YHR	Hawk's Rest, WY	HH[ZEN]	3	WY	44° 06.36'	110° 04.90'	2976	Trillium 120	Q330	Digital	USGS
YJC	Joseph's Coat (YNP), WY	EH[ZEN]	3	WY	44° 45.33'	110° 20.95'	2684	S13	PSN	Analog	USGS
YLA	Lake Butte (YNP), WY	EHZ	1	WY	44° 30.76'	110° 16.12'	2580	L4C	PSN	Analog	USGS
YLT	Little Thumb Creek (YNP), WY	EHZ	1	WY	44° 26.25'	110° 35.28'	2439	L4C	PSN	Analog	USGS
YMC	Maple Creek (YNP), WY	EH[ZEN]	3	WY	44° 45.53'	111° 00.41'	2073	S13	PSN	Analog	USGS
YML	Mary Lake (YNP), WY	EH[ZEN]	3	WY	44° 36.20'	110° 38.63'	2653	L4C	PSN	Analog	USGS
YMP	Mirror Plateau (YNP), WY	EHZ	1	WY	44° 44.38'	110° 09.40'	2774	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan			
YMR	Madison River (YNP), WY	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YMS	Mount Sheridan (YNP), WY	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	HH[ZEN]	3	WY	45° 00.46'	110° 00.48'	2343	Compact	ANSS-130	Digital	USGS
YNM	Norris Museum (YNP), WY	HH[ZEN]	3	WY	44° 43.59'	110° 42.22'	2311	Trillium 240	Q330	Digital	USGS
YNR	Norris Junction (YNP), WY	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YPC	Pelican Cone (YNP), WY	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	PSN	Analog	USGS
YPK	Parker Peak (YNP), WY	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	PSN	Analog	USGS
YPM	Purple Mountain (YNP), WY	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	PSN	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan			
YSB	Soda Butte (YNP), WY	EHZ	1	WY	44° 53.04'	110° 09.06'	2072	L4C	PSN	Analog	USGS
YTP	The Promontory (YNP), WY	EHZ	1	WY	44° 23.51'	110° 17.10'	2384	L4	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan			
YUF	Upper Falls (YNP), WY	HH[ZEN]	3	WY	44° 42.76'	110° 30.71'	2394	Trillium 120	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
YWB	West Boundary (YNP), WY	EHZ	1	WY	44° 36.35'	111° 06.05'	2310	L4C	PSN	Analog	USGS
ZNP	Zion National Park, UT	HH[ZEN]	3	UU	37° 21.37'	113° 07.52'	1953	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			

* Station operated by another agency and recorded as part of University of Utah regional seismic network

Network Statistics: 1029 data channels from 351 stations were being recorded at the end of this report period

EXPLANATION OF TABLE

UURSN Code: Station code formerly used in routine processing. Because of software limitations, the station code may not be the station code used by the original operator. For multi-component stations, the vertical, east-west, and north-south high gain (low gain) components are identified by an appended Z(V), E(L), and N(M), respectively, in UUSS phase files.

Location: General description of station location. YNP = Yellowstone National Park.

SEED Station: The SEED (Standard for the Exchange of Earthquake Data) station code used by the original operator.

SEED Channel: The SEED format uses three letters to name seismic channels. See <<http://www.iris.edu/manuals/SEEDManual_V2.4.pdf>> for information about the SEED channel naming convention. Relevant sections are reproduced below. In the SEED convention, each letter describes one aspect of the instrumentation and its digitization. The first letter specifies the general sampling rate and the response band of the instrument. Band codes used in this table include:

Band Code	Band Type	Sample Rate	Corner Period
E	Extremely short period	≥ 80 Hertz	< 10 seconds
H	High broadband	≥ 80 Hertz	≥ 10 seconds
B	Broadband	≥ 10 to < 80 Hertz	≥ 10 seconds
S	Short period	≥ 10 to < 80 Hertz	< 10 seconds

The second letter specifies the family to which the sensor belongs. Sensor families used in this table are:

Instrument Code	Description
H	High gain seismometer
L	Low gain seismometer
N	Accelerometer

The third letter specifies the physical configuration of the members of a multiple axis instrument package. Channel orientations used in this table are:

Z E N Traditional (Vertical, East-West, North-South)

Number of Channels: Total number of waveform channels recorded.

Network Code: The FDSN (Federation of Digital Seismographic Networks) registered network code. See <<http://www.iris.edu/dms/nodes/dmc/services/network_codes>> for information about registered seismograph network codes. Network codes referenced in this table:

Network Code	Network name; Network operator or responsible organization
AE	Arizona Broadband Seismic Network, Arizona Geological Survey
AR	Northern Arizona Seismic Network, Northern Arizona University
IE	Idaho National Laboratory Seismic Network

IU	IRIS/USGS Network; USGS Albuquerque Seismological Laboratory
IW	Intermountain West Network, U.S. Geological Survey
LB	Leo Brady Network; Sandia National Laboratory
MB	Montana Regional Seismic Network; Montana Bureau of Mines and Geology
NN	Western Great Basin Network; University of Nevada, Reno
NP	National Strong Motion Network; U.S. Geological Survey
PB	Plate Boundary Observatory
RE	U.S. Bureau of Reclamation Seismic Networks; U.S. Bureau of Reclamation, Denver Federal Center
UU	University of Utah Regional Network; University of Utah
US	US National Network; USGS National Earthquake Information Center
WY	Yellowstone Wyoming Seismic Network; University of Utah

Latitude, Longitude: Sensor location in degrees and decimal minutes; North latitude, West longitude.

Elevation: Sensor altitude in meters above sea level.

Sensor	Description
L4, L4C	Mark Products L4 or L4C short-period seismometer
S13, 18300	Geotech S13 or 18300 short-period seismometer
Ranger	Kinometrics Ranger short-period seismometer
40T	Guralp CMG-40T broadband seismometer
3T	Guralp CMG-3T broadband seismometer
3ESP	Guralp CMG-3ESP broadband seismometer
STS-2	Streckheisen STS-2 broadband seismometer
STS-5A	Streckheisen STS-5A broadband seismometer
FBA23	Kinometrics FBA-23 accelerometer
EpiSensor	Kinometrics EpiSensor accelerometer
Applied Mems	Applied Mems accelerometer
PA-23	Geotech PA-23 accelerometer
Compact	Nanometrics Compact broadband seismometer
Trillium 120	Nanometrics Trillium 120 broadband seismometer
Trillium 240	Nanometrics Trillium 240 broadband seismometer
Titan	Nanometrics Titan accelerometer
Observer	Refraction Technology (REF TEK) Model 151 Observer broadband seismometer
R147	Refraction Technology (REF TEK) Model 147 accelerometer
IESE-S2	Institute of Earth Science and Engineering S-2 model borehole seismometer
Gsig-AC63	Geosig-AC63 NetQuakes accelerometer
Omni-2400	Geospace OMNI-2400
Silicon-ULN	Silicon Audio Ultra Low Noise

Digitizer	Description
K2	Kinometrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinometrics Altus Series Etna (18-bit resolution field digitizer)
72A-07	Refraction Technology (REF TEK) model 72A-07 (24-bit field digitizer)

72A-08	Refraction Technology (REF TEK) model 72A-08 (24-bit field digitizer)
ANSS-130	Refraction Technology (REF TEK) model 130-ANSS/02 (24-bit resolution field digitizer)
RT-130	Refraction Technology (REF TEK) model RT-130 (24-bit resolution field digitizer)
Q330	Quanterra, Inc. Q330 digitizer (24-bit resolution field digitizer)
SMART-24	Geotech SMART-24 digitizer (24-bit resolution field digitizer)
PSN	PSN-ADC-SERIAL version III (16-bit resolution field digitizer)
Basalt	Kinometrics Basalt (24-bit resolution field digitizer)
Taurus	Nanometrics Taurus (24-bit resolution field digitizer)
Gsig-GMS	Geosig-GMS NetQuakes (24-bit resolution field digitizer)
Centaur	Nanometrics Centaur (24-bit resolution field digitizer)
Obsidian	Kinometrics Obsidian (24-bit resolution field digitizer)
Etna2	Kinometrics Etna 2 (24-bit resolution field digitizer)

Telemetry	Description
Analog	Data transmission is analog along part of the transmission pathway
Digital	Data are converted to digital form at the station site
None	On-site recording system

Sponsor (or Operator for stations marked by * in preceding columns)

USGS	U.S. Geological Survey
Utah	State of Utah
ANSS	Advanced National Seismic System
INL	Idaho National Laboratory
USBR	U.S. Bureau of Reclamation
LLNL	Lawrence Livermore National Laboratory
Sandia	Sandia National Laboratory
BYU-I	Brigham Young University, Idaho (formerly Ricks College)
MBMT	Montana Bureau of Mines and Geology
NSMP	National Strong Motion Project, U.S. Geological Survey
UNR	University of Nevada, Reno
AZGS	Arizona Geological Survey
NAU	Northern Arizona University
NSF	National Science Foundation
PBO	Plate Boundary Observatory

NETWORK CHANGES DURING JULY 1–SEPTEMBER 30, 2022

August 23 KHUT EHZ EN[ZEN] installed