

EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

October 1 – December 31, 2024

Prepared by the University of Utah Seismograph Stations and funded by
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March 27, 2025

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 through 02:00 (2:00 a.m.) on November 3 and MST thereafter.
- 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).

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October 1 – December 31, 2024

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During the three-month period October 1, 2024, through December 31, 2024, the University of Utah Seismograph Stations (UUSS) located 681 earthquakes within the Utah region (Figure 1). The total includes one earthquake in the magnitude 3 range, and 48 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 2024 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 3.3 December 25 18:34 MST 22 mi W of Green River, WY

Other Notable Seismicity

During the report period, there were five 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 34 earthquakes ($0.5 \leq M \leq 2.2$) occurred about 15 mi WSW of Bear River City, UT. Four of these events, including a magnitude 2.2 shock, occurred between November 11 and November 17.
- B. A cluster of 12 earthquakes ($-0.1 \leq M \leq 1.5$) occurred about 3 mi NE of Magna, UT. Four of these events, including a magnitude 1.5 shock, occurred between December 4 and December 8.
- C. A cluster of 301 earthquakes ($-0.6 \leq M \leq 2.3$) occurred about 10 mi NNE of Milford, UT. Nine of these events, including a magnitude 2.3 shock, occurred on December 8.
- D. A cluster of 10 earthquakes ($1.2 \leq M \leq 1.9$) occurred about 7 mi W of Enoch, UT. Four of these events, including a magnitude 1.9 shock, occurred between November 13 and November 16.
- E. A cluster of 11 earthquakes ($0.9 \leq M \leq 2.5$) occurred about 12 mi S of Cedar City, UT. Three of these events, including a magnitude 2.5 shock, occurred between December 11 and December 16.

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 153 located shocks ($0.7 \leq M \leq 2.2$) that occurred during the report period.

Seismicity of the Utah Region October 1 – December 31, 2024

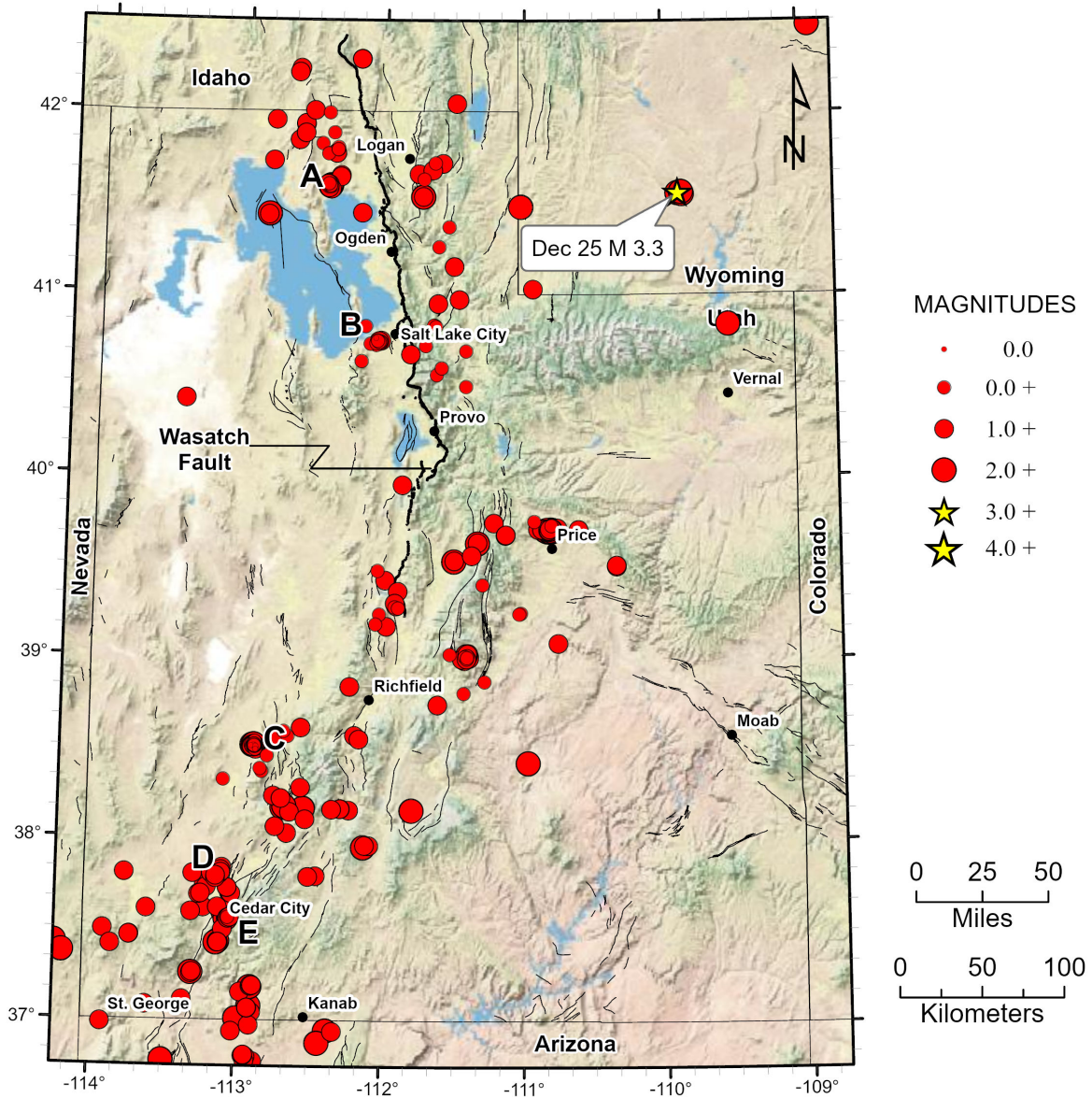


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults (black lines) compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local 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, 2024, to December 31, 2024

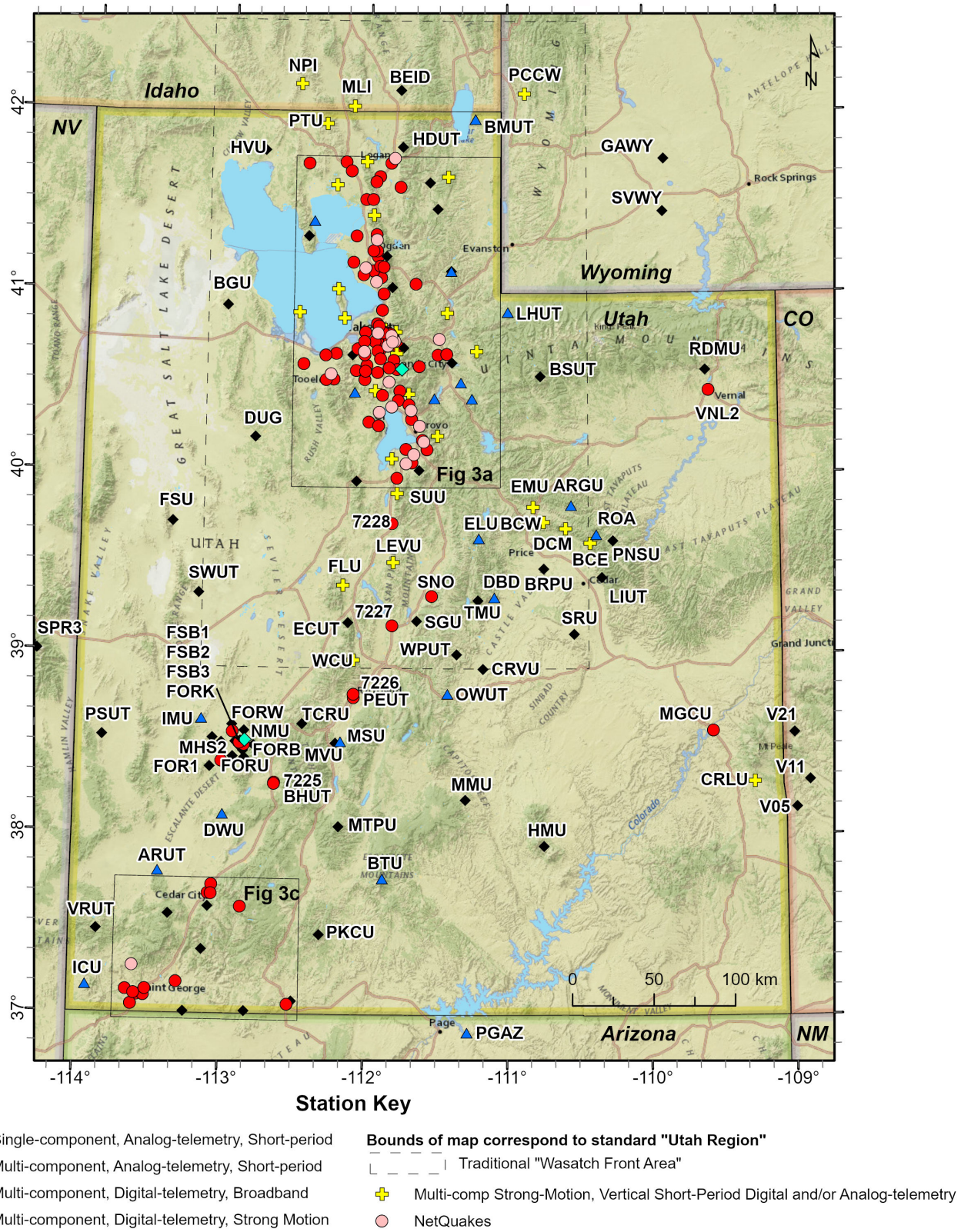
Date and Time†	Felt Information‡	Latitude	Longitude	Magnitude§
2024-02-03 09:28:43 MST 2024-02-03 02:28:43 UTC	DYFI ShakeMap	37° 09.87'	112° 59.44'	M _L 3.5
2024-05-04 02:36:47 MDT 2024-05-04 08:36:47 UTC	DYFI ShakeMap	41° 34.61'	112° 25.12'	M _L 3.9
2024-05-05 17:30:14 MDT 2024-05-05 23:30:14 UTC	DYFI ShakeMap	41° 34.74'	112° 25.10'	M _L 4.4
2024-05-06 23:20:24 MDT 2024-05-07 05:20:24 UTC	DYFI ShakeMap	41° 35.35'	112° 25.27'	M _L 3.1
2024-06-03 11:28:23 MDT 2024-06-03 17:28:23 UTC	DYFI	37° 47.63'	112° 57.09'	M _L 2.7
2024-06-15 23:49:56 MDT 2024-05-16 05:49:56 UTC	DYFI ShakeMap	37° 33.82'	113° 03.56'	M _L 3.1
2024-07-08 15:00:44 MDT 2024-07-08 21:00:44 UTC	DYFI ShakeMap	39° 02.12'	111° 32.41'	M _L 3.4
2024-07-23 22:33:45 MDT 2024-07-24 04:33:45 UTC	DYFI	37° 02.26'	113° 28.97'	M _L 2.9
2024-07-28 23:29:05 MDT 2024-07-29 05:29:05 UTC	DYFI ShakeMap	37° 28.35'	112° 51.14'	M _L 4.5
2024-08-02 04:09:29 MDT 2024-08-02 10:09:29 UTC	DYFI	40° 44.17'	112° 02.89'	M _L 2.5
2024-08-15 12:02:34 MDT 2024-08-15 18:02:34 UTC	DYFI ShakeMap	37° 04.87'	112° 50.87'	M _L 3.3
2024-09-07 20:16:27 MDT 2024-09-08 02:16:27 UTC	DYFI ShakeMap	41° 35.16'	112° 50.87'	M _L 3.3
2024-12-25 18:34:18 MST 2024-12-26 01:34:18 UTC	DYFI ShakeMap	41° 33.55'	109° 53.01'	M _L 3.3

† 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 December 31, 2024



Utah Urban Seismic Network (December 31, 2024)

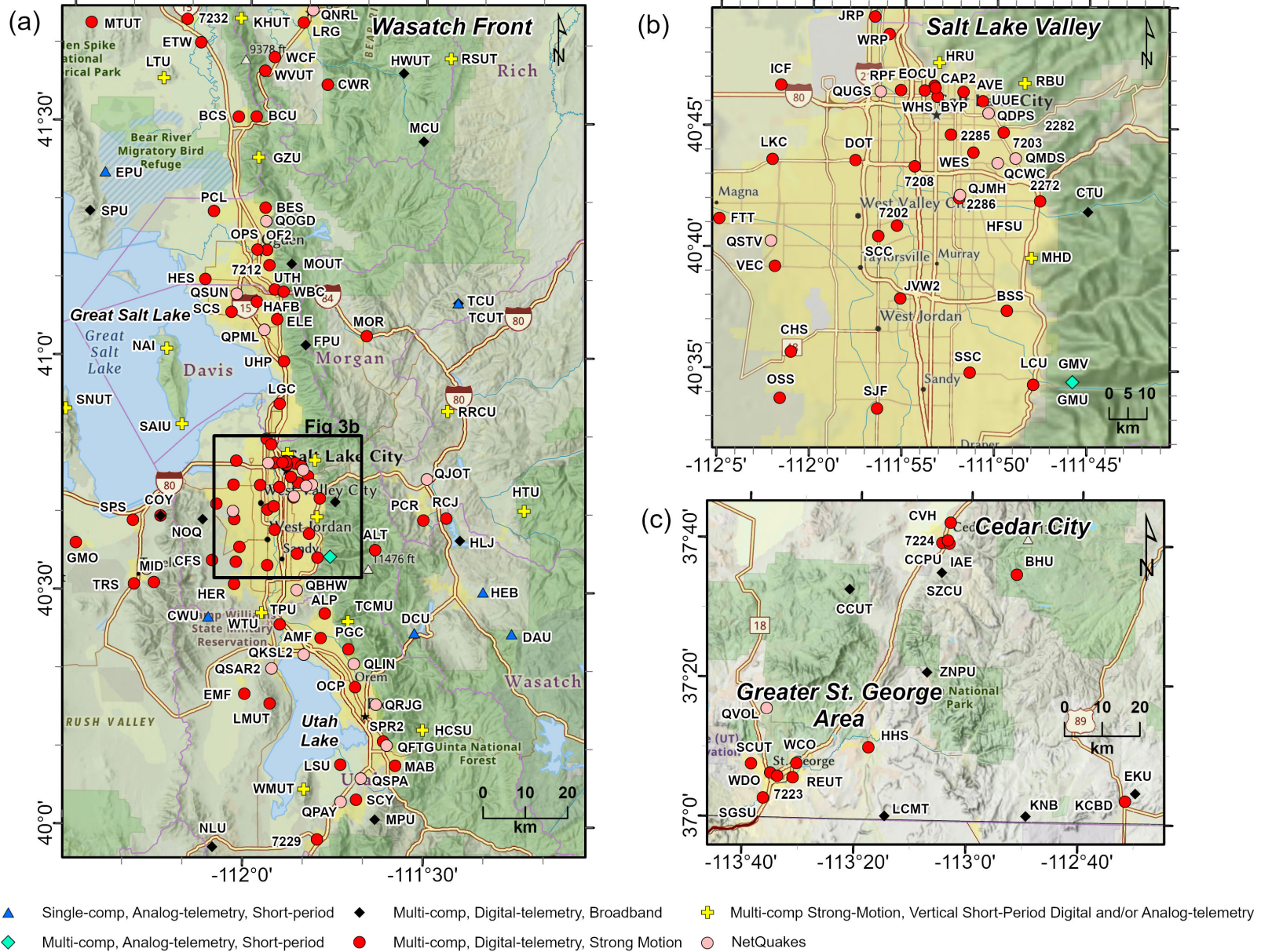


Figure 3

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2024

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241001	07:07:07.29	41° 45.90'	112° 25.79'	-1.2*	0.7	15	82	11	0.13
241001	16:04:04.25	39° 28.56'	112° 02.41'	5.9*	0.7	10	95	16	0.07
241002	03:12:30.69	36° 58.96'	113° 54.75'	10.8	1.5W	10	133	19	0.12
241002	07:05:52.93	39° 40.39'	111° 07.97'	3.5	1.6W	25	42	7	0.19
241002	07:09:28.64	39° 40.60'	111° 07.83'	2.8	1.4	22	72	7	0.16
241002	14:12:04.54	39° 00.71'	111° 24.06'	-1.4	0.9W	7	128	4	0.16
241002	23:20:23.14	38° 06.47'	112° 31.67'	2.2*	1.5W	22	50	31	0.33
241003	07:32:23.92	41° 14.93'	110° 26.71'	8.8*	2.1W	36	112	53	0.24
241003	11:48:37.59	41° 34.77'	112° 24.97'	6.9	1.6W	30	121	11	0.18
241003	23:08:03.85	38° 29.45'	112° 52.58'	0.0	0.8	22	69	1	0.12
241004	06:00:09.22	38° 29.57'	112° 52.44'	0.6	-0.4	16	71	0	0.11
241005	00:56:03.88	41° 35.19'	112° 25.41'	5.8*	0.9W	13	123	15	0.15
241005	04:32:00.82	37° 15.67'	113° 17.62'	6.0	1.7W	26	46	10	0.13
241005	04:32:57.38	38° 01.84'	112° 39.25'	5.3*	1.8W	23	59	41	0.23
241005	05:14:34.28	37° 15.79'	113° 17.58'	5.5	1.3W	21	76	10	0.20
241005	05:52:57.11	38° 29.40'	112° 52.74'	0.4	1.0	21	72	1	0.07
241005	17:01:10.42	40° 43.58'	112° 04.01'	9.2	0.6	16	97	3	0.08
241006	01:49:37.58	38° 16.88'	112° 33.72'	1.8*	1.2W	25	60	30	0.17
241006	02:10:05.09	41° 42.83'	111° 35.48'	11.2	1.1W	35	66	12	0.14
241006	03:33:41.01	42° 28.32'	108° 54.60'	34.6	2.5W	19	243	62	0.20
241006	10:36:49.45	37° 15.75'	113° 17.70'	6.1	1.9W	36	47	10	0.16
241006	17:37:47.47	40° 42.76'	111° 42.57'	5.0	0.8	11	96	4	0.09
241006	23:17:47.95	40° 44.30'	112° 02.77'	6.2	0.9	32	43	2	0.13
241007	17:22:31.29	38° 33.83'	112° 39.40'	0.9*	0.6	20	154	14	0.11
241007	21:10:55.50	38° 09.98'	112° 17.01'	1.5*	1.5W	17	74	16	0.29
241007	21:15:56.68	38° 09.97'	112° 17.05'	5.0*	1.4W	11	103	16	0.25
241007	21:40:36.88	37° 48.30'	113° 17.91'	1.6*	1.4	7	239	13	0.18
241008	01:34:48.74	41° 56.97'	112° 48.74'	8.0*	1.8W	24	217	19	0.12
241008	10:34:49.38	40° 43.96'	112° 02.69'	7.2	0.3	12	104	1	0.09
241008	18:26:52.38	41° 55.56'	112° 35.83'	6.8*	1.7W	25	151	22	0.18
241008	18:29:21.24	41° 55.85'	112° 35.81'	6.4*	1.7W	27	153	22	0.13
241009	09:33:10.19	38° 29.55'	112° 52.79'	0.7	-0.4	20	99	1	0.08
241009	12:25:39.56	40° 24.86'	113° 25.46'	10.6*	1.2	13	202	57	0.16
241009	16:17:02.76	38° 36.66'	112° 33.92'	-1.4	1.4W	21	78	10	0.18
241010	09:59:47.70	38° 59.53'	111° 26.33'	-1.2	1.1W	7	144	7	0.05
241010	20:49:07.50	39° 14.16'	112° 01.57'	1.7*	0.8	6	91	12	0.17
241011	03:19:40.00	37° 15.57'	113° 17.95'	6.1	2.0W	23	66	10	0.18
241011	04:30:21.59	37° 33.37'	113° 03.88'	10.4	2.3W	33	56	12	0.21
241011	06:13:32.35	38° 29.41'	112° 52.82'	0.8	-0.3	9	102	1	0.05
241011	08:02:30.74	39° 00.19'	111° 24.41'	-0.4	1.4W	25	59	4	0.12
241011	10:27:05.24	41° 52.68'	112° 35.88'	1.8*	1.0	11	138	18	0.12
241011	12:23:25.09	38° 29.45'	112° 52.62'	0.1	0.7	23	69	1	0.09
241012	06:19:17.12	39° 00.65'	111° 24.11'	-0.2	1.1W	10	82	4	0.10
241012	07:44:10.42	37° 22.12'	114° 11.53'	12.1*	2.2W	15	98	31	0.22

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2024

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241013	00:35:12.39	41° 35.45'	112° 25.05'	7.6	0.8	13	121	14	0.14
241013	09:18:21.07	41° 50.34'	112° 38.48'	3.8*	1.1	10	136	13	0.13
241013	19:25:12.66	40° 44.12'	112° 03.07'	8.4	0.4	13	115	2	0.09
241013	19:46:18.10	39° 16.60'	111° 55.08'	14.1	0.7	6	125	22	0.12
241014	05:59:24.99	41° 40.60'	111° 39.96'	9.5	1.0	26	59	11	0.11
241014	11:49:53.54	38° 29.29'	112° 52.77'	0.3	-0.5	15	90	1	0.07
241015	04:35:59.03	36° 58.42'	112° 53.63'	19.4	1.4W	17	140	8	0.11
241015	18:25:27.65	39° 17.01'	111° 54.45'	6.0*	1.3W	9	89	23	0.14
241015	23:15:08.86	41° 15.36'	111° 37.01'	9.0*	0.8W	13	110	23	0.16
241016	00:32:15.09	37° 48.35'	113° 10.22'	10.4*	1.3	8	169	24	0.24
241016	18:24:31.23	38° 29.41'	112° 52.95'	1.0	0.3	8	110	1	0.06
241017	03:32:25.47	37° 44.66'	113° 13.00'	-0.8*	1.7	12	110	20	0.20
241017	03:57:19.52	38° 29.52'	112° 52.76'	1.0	-0.6	12	96	1	0.06
241018	08:47:43.43	39° 00.36'	111° 25.12'	-1.0	0.9W	9	135	5	0.21
241018	22:47:39.90	40° 41.09'	111° 25.12'	12.3	0.7	12	68	3	0.10
241020	01:14:21.99	40° 51.57'	112° 16.88'	8.3	0.9	9	109	8	0.05
241020	20:43:05.79	38° 35.42'	112° 41.13'	3.7*	0.6W	23	118	14	0.12
241021	11:09:33.59	39° 14.43'	111° 02.07'	6.0*	0.9	8	177	36	0.09
241021	19:34:51.77	38° 13.35'	112° 41.86'	1.6*	1.3W	24	46	26	0.16
241022	08:14:23.96	41° 21.97'	111° 32.64'	19.1	0.8W	24	127	11	0.14
241022	12:37:48.70	39° 43.61'	110° 48.43'	-3.5	0.9	7	187	6	0.26
241022	15:06:16.97	38° 33.46'	112° 42.78'	9.3	1.4W	32	79	10	0.12
241022	16:12:11.42	37° 29.95'	113° 05.14'	18.5	1.7W	10	138	16	0.19
241025	10:18:24.23	39° 00.38'	111° 24.38'	-1.2	1.1W	18	58	4	0.12
241025	21:01:52.44	41° 08.93'	111° 30.35'	17.1	1.7W	36	107	9	0.13
241025	23:43:37.81	41° 36.08'	112° 25.42'	8.6	0.5	9	121	15	0.12
241026	21:48:41.99	37° 33.49'	113° 03.63'	10.7	1.8W	30	44	12	0.15
241027	01:16:25.67	37° 48.32'	113° 46.36'	1.8*	1.5	13	106	29	0.18
241027	16:25:13.67	41° 59.44'	112° 25.35'	0.8*	0.7	7	104	11	0.06
241028	01:02:48.32	37° 27.82'	113° 43.70'	8.3	1.8W	15	85	11	0.19
241028	01:04:00.30	37° 27.80'	113° 43.81'	0.4*	1.3W	11	85	11	0.12
241028	04:19:58.49	39° 42.10'	110° 50.65'	2.6*	1.5	8	210	13	0.15
241028	04:43:51.60	37° 25.90'	113° 07.10'	12.0	1.9W	19	40	8	0.15
241028	04:44:20.13	37° 25.95'	113° 07.15'	11.6	2.4W	19	40	8	0.14
241028	05:48:22.58	40° 58.07'	111° 28.11'	12.1	1.1	8	146	9	0.04
241028	14:24:32.82	41° 34.27'	112° 24.33'	2.7*	0.9	6	120	13	0.02
241028	19:27:56.99	37° 57.82'	112° 04.94'	5.9*	1.8	11	82	12	0.15
241028	22:01:13.56	40° 35.49'	111° 35.65'	4.6	0.4	9	243	4	0.16
241028	23:57:56.42	39° 01.06'	111° 31.50'	10.5	0.9W	13	97	15	0.14
241029	00:31:04.79	37° 57.28'	112° 07.34'	10.9	2.5W	31	51	11	0.27
241029	01:02:29.18	39° 41.99'	110° 49.65'	-3.4	1.8W	15	105	8	0.19
241029	02:58:28.68	37° 25.52'	113° 07.81'	9.2	2.4W	36	36	8	0.16
241029	12:23:44.12	37° 33.42'	113° 03.37'	9.5	1.7W	24	44	12	0.12
241029	21:29:15.80	41° 35.08'	112° 25.68'	0.6	0.7	16	92	10	0.16

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2024

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241029	21:29:46.55	41° 36.15'	112° 25.00'	3.6	1.1	20	89	8	0.18
241029	21:43:50.95	41° 46.08'	112° 22.22'	4.7*	1.7W	28	71	13	0.16
241029	22:59:05.77	41° 35.53'	112° 25.15'	5.5	1.2	27	91	9	0.22
241029	22:59:25.85	41° 35.47'	112° 25.25'	3.4	1.3	16	121	9	0.10
241030	03:25:48.59	37° 37.10'	113° 13.29'	1.6*	1.7W	21	61	13	0.16
241030	12:48:27.07	36° 56.51'	112° 19.39'	22.0	1.9	9	176	21	0.07
241031	03:37:56.00	38° 09.74'	112° 20.66'	2.8*	1.0W	11	170	19	0.21
241031	12:54:28.32	41° 39.38'	111° 46.00'	8.7	1.6W	32	52	8	0.14
241101	02:07:48.18	39° 42.32'	110° 49.78'	-3.4	1.6	11	149	8	0.10
241101	11:07:38.32	38° 59.77'	111° 24.96'	-1.2	1.3W	11	71	5	0.11
241101	16:52:46.62	41° 37.63'	111° 43.71'	14.4	0.9	18	108	7	0.09
241102	00:29:22.29	42° 02.58'	111° 29.55'	8.4*	1.1	20	184	23	0.18
241102	11:53:04.80	40° 29.37'	111° 25.08'	1.1*	0.8	13	205	14	0.06
241102	17:16:29.56	41° 28.64'	111° 01.54'	6.1*	2.8W	42	62	38	0.22
241103	03:11:11.40	41° 52.84'	112° 23.29'	6.9	0.9	11	153	8	0.08
241104	12:29:50.88	38° 10.03'	112° 32.66'	5.8*	2.2W	31	52	35	0.22
241105	15:38:28.69	37° 00.62'	112° 59.05'	26.1	2.5W	35	119	14	0.18
241105	21:57:13.13	38° 09.53'	111° 47.28'	14.8*	2.2W	25	86	37	0.18
241106	14:04:56.06	38° 04.02'	112° 44.13'	6.0*	1.4	12	109	45	0.18
241106	17:25:59.00	38° 27.30'	112° 47.97'	4.0	0.3	18	148	5	0.07
241107	03:25:17.08	40° 44.50'	112° 03.68'	7.0	0.8	8	115	6	0.09
241107	13:11:33.95	37° 47.73'	112° 27.01'	3.9*	1.9W	25	68	36	0.27
241107	22:00:07.75	39° 24.01'	111° 17.75'	16.3	0.8W	23	63	14	0.22
241108	01:54:38.90	37° 25.62'	113° 06.94'	9.6	1.1W	11	139	8	0.07
241108	05:19:00.59	38° 52.11'	111° 16.80'	2.0*	0.8W	6	165	11	0.13
241108	07:23:29.09	40° 33.20'	111° 37.73'	-3.5	0.4	21	158	4	0.22
241108	13:02:45.26	39° 00.56'	111° 24.62'	-1.3	0.9W	9	83	5	0.10
241108	16:03:39.86	37° 02.67'	112° 52.75'	17.2	1.5W	20	122	6	0.14
241108	20:33:57.42	37° 57.92'	112° 06.74'	12.6	1.6	17	74	11	0.18
241109	04:04:10.61	40° 49.52'	111° 39.10'	10.5	0.3	16	61	14	0.17
241109	04:04:32.03	40° 49.43'	111° 38.78'	10.8	0.9W	24	62	14	0.12
241109	04:04:41.72	40° 49.10'	111° 38.17'	6.2*	0.3	10	162	15	0.11
241109	10:51:34.49	36° 48.61'	112° 55.63'	15.1	1.3	10	183	25	0.17
241109	11:53:14.51	37° 25.58'	113° 07.18'	9.6	1.3W	12	109	8	0.08
241109	17:08:59.95	41° 35.83'	112° 23.57'	0.2	1.0	20	114	10	0.14
241110	03:48:26.07	38° 59.82'	111° 23.27'	0.5	1.2W	10	71	3	0.06
241110	07:52:38.17	39° 14.71'	111° 01.41'	16.4	0.9	16	85	17	0.10
241110	08:35:12.92	39° 41.20'	110° 48.82'	-3.2	1.6	11	97	8	0.29
241110	15:14:08.24	39° 00.28'	111° 24.73'	-2.2	1.4	6	132	5	0.05
241110	17:17:25.20	38° 25.30'	110° 58.32'	3.6*	2.9W	31	69	38	0.18
241110	17:55:04.50	40° 43.39'	112° 06.51'	8.2	0.9	12	100	5	0.17
241110	18:26:13.36	37° 11.02'	112° 53.51'	19.2	2.3W	31	78	20	0.15
241110	22:17:06.10	39° 00.57'	111° 23.79'	-1.0	1.5	7	80	4	0.07
241110	23:48:37.92	38° 19.35'	113° 06.14'	6.6	0.7	15	227	5	0.12

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241111	04:00:53.14	37° 43.65'	113° 03.50'	1.2	1.6W	16	65	1	0.17
241111	11:28:38.61	41° 35.59'	112° 25.54'	0.5*	0.6	8	122	15	0.08
241112	04:28:11.17	36° 47.98'	112° 54.65'	16.2	1.6W	12	168	25	0.15
241113	00:26:39.43	42° 17.23'	112° 11.57'	5.1*	1.5	13	238	29	0.09
241113	00:31:54.39	42° 17.18'	112° 11.56'	2.9*	1.2	8	237	29	0.12
241113	03:54:35.98	36° 48.31'	112° 56.02'	17.4	1.6W	10	169	25	0.18
241113	04:48:19.92	40° 45.29'	112° 04.09'	6.3	-0.1	13	98	4	0.16
241113	06:29:22.37	37° 49.52'	113° 06.35'	5.7*	1.5W	12	147	13	0.16
241113	10:43:07.65	37° 48.67'	113° 06.31'	5.3*	1.2W	10	143	11	0.24
241114	15:27:48.99	39° 01.48'	111° 23.70'	-2.9	1.1W	6	124	4	0.03
241114	21:44:30.00	41° 35.26'	112° 25.07'	3.5	1.3W	18	91	10	0.20
241114	23:50:27.78	41° 35.67'	112° 25.64'	3.8	1.0	12	122	9	0.13
241115	00:27:07.92	38° 30.61'	112° 53.14'	2.0	0.2	13	152	1	0.07
241115	18:25:32.95	37° 15.31'	113° 17.91'	1.8*	1.4W	10	90	19	0.07
241116	06:55:39.88	37° 47.64'	113° 08.42'	5.9*	1.2	10	259	23	0.09
241116	08:30:52.33	37° 48.90'	113° 06.93'	12.7	1.9W	26	117	12	0.13
241116	19:04:16.36	40° 39.97'	111° 49.02'	0.1	1.1	23	59	1	0.22
241116	22:29:37.57	39° 01.29'	111° 24.07'	-3.3	1.1W	6	126	5	0.02
241117	11:10:16.40	41° 35.32'	112° 24.74'	4.5*	2.2W	36	113	22	0.13
241117	17:31:24.37	38° 50.28'	112° 13.69'	6.7*	1.2	9	123	14	0.09
241117	22:08:51.98	39° 41.80'	110° 50.12'	-2.4	1.6	11	107	9	0.15
241118	11:51:09.20	36° 46.49'	112° 51.91'	18.3	1.7W	11	169	27	0.19
241119	10:08:09.40	37° 33.82'	113° 03.07'	10.8	0.9W	16	80	5	0.06
241120	04:53:56.99	37° 50.32'	113° 05.84'	3.6*	1.8	7	160	27	0.26
241120	06:30:53.23	41° 32.89'	109° 51.11'	-2.0*	2.7W	16	157	11	0.14
241120	23:36:09.21	36° 48.41'	112° 55.64'	12.1*	1.6W	9	183	25	0.14
241121	07:32:10.03	38° 30.71'	112° 53.54'	1.9	0.6	15	110	1	0.06
241121	07:50:19.79	38° 30.49'	112° 53.55'	1.7	-0.5	13	208	1	0.05
241121	07:50:45.59	38° 30.41'	112° 52.80'	1.5	0.0	10	199	1	0.05
241121	08:23:48.50	38° 30.63'	112° 53.21'	2.8	0.9	16	106	1	0.05
241121	09:38:26.41	40° 49.20'	112° 08.59'	6.1	0.4	12	116	5	0.06
241121	17:46:12.20	36° 56.76'	112° 22.12'	19.4	2.9W	21	103	17	0.26
241121	17:58:17.90	38° 29.34'	112° 52.87'	0.7	--	11	103	1	0.05
241122	00:23:49.27	39° 00.97'	111° 23.77'	-1.3	1.3	7	125	4	0.04
241122	03:39:28.99	39° 56.91'	111° 52.12'	0.6	1.0	13	76	9	0.14
241122	05:30:44.33	36° 56.37'	113° 00.89'	23.5	1.5W	18	126	19	0.08
241122	10:30:32.80	41° 35.84'	112° 25.17'	6.3	1.7W	32	90	9	0.23
241123	05:27:23.72	39° 17.87'	111° 54.94'	10.2*	1.0	8	98	23	0.07
241123	15:00:50.05	41° 01.55'	110° 56.23'	24.3	1.5	12	138	16	0.12
241123	16:13:45.69	41° 31.84'	111° 44.07'	10.7	2.9W	44	67	7	0.17
241123	16:17:16.23	41° 31.95'	111° 44.02'	8.9	1.2	22	87	7	0.13
241123	22:18:42.83	39° 00.37'	111° 23.25'	0.1	1.5	6	124	3	0.06
241124	04:50:12.44	41° 35.57'	112° 24.54'	7.4	2.1W	35	89	9	0.16
241124	05:41:00.13	41° 35.61'	112° 24.73'	3.5	1.2W	18	90	9	0.16

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241124	11:23:40.97	38° 59.62'	111° 24.36'	-1.4	1.0W	7	132	4	0.09
241124	15:12:08.98	41° 35.48'	112° 25.25'	4.9	0.8	8	121	9	0.12
241125	00:24:43.20	41° 13.87'	110° 43.24'	27.9	2.0W	29	97	44	0.21
241125	08:28:58.51	37° 06.72'	113° 21.40'	15.3	1.1	19	127	14	0.15
241125	23:15:27.47	41° 34.92'	112° 25.25'	3.0	1.1	18	91	10	0.17
241125	23:33:14.00	41° 35.28'	112° 24.99'	1.7	1.2	18	91	10	0.18
241126	14:47:31.04	39° 44.96'	110° 55.70'	1.6*	0.8	14	169	12	0.24
241126	18:32:19.23	38° 23.06'	112° 50.84'	8.4	0.4	22	212	4	0.11
241127	14:37:04.72	36° 52.68'	112° 25.52'	19.7	2.0W	13	116	20	0.10
241128	09:53:57.37	38° 30.66'	112° 53.10'	1.5	0.1	23	72	0	0.10
241128	10:49:56.15	38° 30.40'	112° 52.82'	1.9	-0.2	25	49	1	0.15
241128	10:49:59.71	38° 30.59'	112° 52.90'	4.8	0.9	13	86	7	0.23
241128	10:52:55.49	38° 30.55'	112° 52.97'	1.7	0.9	31	49	0	0.14
241128	10:56:28.34	38° 30.63'	112° 53.19'	2.2	1.4	23	59	1	0.11
241128	11:25:50.39	38° 30.74'	112° 53.29'	1.9	-0.2	26	50	1	0.10
241128	11:25:58.98	38° 30.65'	112° 53.18'	2.1	0.6	24	48	1	0.11
241128	11:36:22.78	38° 30.49'	112° 53.21'	2.1	0.9	28	48	1	0.12
241128	16:49:06.42	41° 35.31'	112° 24.16'	8.7	0.9	14	117	13	0.15
241128	21:05:39.03	38° 30.68'	112° 53.40'	2.3	0.7	28	60	1	0.10
241128	21:07:55.64	38° 30.61'	112° 53.37'	2.0	0.7	26	59	1	0.11
241128	21:19:24.22	38° 30.75'	112° 53.69'	2.4	-0.5	18	112	1	0.08
241128	21:20:50.55	38° 30.49'	112° 53.22'	2.1	1.1	34	47	1	0.15
241128	21:55:01.83	38° 30.53'	112° 53.29'	1.9	0.7	30	58	1	0.13
241129	00:06:49.98	38° 30.25'	112° 53.15'	2.0	0.9	30	57	0	0.15
241129	08:46:47.63	38° 30.36'	112° 52.81'	1.7	0.6	29	48	1	0.14
241129	09:19:59.97	38° 30.34'	112° 53.00'	2.1	1.0	36	45	1	0.16
241129	09:57:19.93	38° 30.34'	112° 53.13'	2.1	1.3W	41	46	0	0.16
241129	11:25:54.94	41° 35.40'	112° 24.71'	5.8*	0.6	12	119	14	0.16
241129	12:37:23.95	38° 30.22'	112° 53.30'	2.2	1.1	33	48	0	0.16
241129	13:24:48.88	38° 30.51'	112° 53.13'	2.0	1.0	33	46	1	0.15
241129	13:25:07.81	38° 30.46'	112° 53.20'	2.0	1.0	25	57	1	0.11
241129	13:26:15.43	38° 30.62'	112° 53.55'	2.1	1.3	30	49	1	0.09
241129	13:28:27.59	38° 30.56'	112° 53.30'	2.2	1.3	29	47	1	0.11
241129	13:34:29.87	38° 30.59'	112° 53.45'	2.2	0.8	29	48	1	0.11
241129	15:14:45.02	39° 42.53'	110° 49.13'	-3.4	1.2	6	152	7	0.16
241129	15:47:07.30	38° 30.47'	112° 53.61'	2.4	0.9	27	60	1	0.10
241130	00:10:40.11	38° 30.63'	112° 53.38'	2.4	0.0	23	107	1	0.09
241130	00:25:05.40	38° 30.52'	112° 53.53'	2.3	1.2	27	66	1	0.10
241130	00:30:22.71	38° 30.41'	112° 52.94'	1.8	1.7W	34	56	1	0.13
241130	00:33:48.74	38° 30.60'	112° 53.37'	2.5	0.1	22	59	1	0.09
241130	00:34:12.29	38° 30.60'	112° 53.69'	2.4	1.2W	29	45	1	0.10
241130	00:41:13.58	38° 30.46'	112° 53.38'	2.6	0.2	21	57	1	0.08
241130	00:41:23.22	38° 30.52'	112° 53.57'	2.2	1.5	22	108	1	0.09
241130	00:42:47.49	38° 30.54'	112° 53.51'	2.4	0.8	23	107	1	0.07

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241130	00:55:13.37	38° 30.37'	112° 53.25'	2.3	1.1W	30	47	1	0.12
241130	00:55:57.97	38° 30.67'	112° 53.55'	2.5	1.2	22	109	1	0.07
241130	01:00:24.73	38° 30.50'	112° 53.30'	2.3	0.8	29	47	1	0.12
241130	01:02:06.35	38° 30.90'	112° 53.37'	1.8	0.5	20	110	1	0.08
241130	01:10:27.91	38° 30.73'	112° 53.59'	2.2	1.0W	26	110	1	0.09
241130	01:11:11.74	38° 30.65'	112° 53.35'	2.3	0.9	20	107	1	0.08
241130	01:12:35.45	38° 30.32'	112° 53.35'	2.2	1.1	28	48	0	0.13
241130	01:21:40.67	38° 30.54'	112° 53.17'	1.9	0.6	28	66	1	0.13
241130	01:24:32.06	38° 30.50'	112° 53.55'	2.2	1.0	25	77	1	0.09
241130	01:25:14.03	38° 30.43'	112° 53.46'	2.6	1.2	23	56	1	0.09
241130	01:37:09.31	38° 30.55'	112° 53.37'	2.2	1.2	25	59	1	0.10
241130	01:41:24.82	38° 30.41'	112° 53.51'	2.7	0.3	18	105	1	0.07
241130	01:42:58.73	38° 30.41'	112° 53.11'	2.0	1.1W	30	57	1	0.14
241130	01:44:49.39	38° 30.65'	112° 53.59'	2.5	1.2	22	67	1	0.07
241130	01:45:17.44	38° 30.50'	112° 52.96'	2.3	0.1	16	172	1	0.08
241130	01:45:31.89	38° 30.57'	112° 53.58'	2.4	1.4	24	108	1	0.07
241130	01:48:51.82	38° 30.81'	112° 53.52'	2.0	0.9	23	111	1	0.09
241130	01:55:19.52	38° 30.36'	112° 53.33'	2.3	1.3W	29	48	1	0.13
241130	02:02:08.69	38° 30.47'	112° 53.59'	2.5	1.3	26	66	1	0.08
241130	02:03:22.76	38° 30.53'	112° 53.52'	2.5	0.9	25	60	1	0.09
241130	02:08:25.56	38° 30.34'	112° 53.59'	2.4	1.1	23	66	1	0.08
241130	02:17:30.86	38° 30.49'	112° 53.61'	2.4	1.3	24	66	1	0.09
241130	02:18:22.50	38° 30.37'	112° 53.53'	2.5	1.3	22	70	1	0.09
241130	02:30:21.26	38° 30.42'	112° 53.37'	2.3	1.0	24	48	1	0.10
241130	02:41:12.06	38° 30.27'	112° 53.04'	1.9	1.7W	30	56	0	0.14
241130	02:44:08.66	38° 30.72'	112° 53.55'	2.4	0.7	23	110	1	0.08
241130	02:58:31.44	38° 30.54'	112° 53.46'	2.3	1.2	26	66	1	0.10
241130	03:15:04.93	38° 30.47'	112° 53.64'	2.6	0.4	23	107	1	0.09
241130	03:37:39.93	38° 30.63'	112° 53.51'	2.2	1.1	27	66	1	0.10
241130	03:55:38.78	38° 30.46'	112° 53.64'	2.3	1.4	24	66	1	0.08
241130	03:58:57.75	38° 30.47'	112° 53.50'	2.7	1.0	16	138	1	0.07
241130	03:59:53.85	38° 30.37'	112° 53.62'	2.6	1.1	24	66	1	0.07
241130	04:42:03.50	38° 30.39'	112° 53.63'	2.3	0.9	22	70	1	0.08
241130	04:48:01.60	38° 30.36'	112° 53.54'	2.4	1.4	24	66	1	0.08
241130	05:05:57.37	38° 30.36'	112° 53.58'	2.6	1.2W	23	66	1	0.09
241130	06:25:11.38	38° 30.41'	112° 53.38'	2.2	1.9W	34	39	1	0.14
241130	06:26:49.41	38° 30.34'	112° 53.55'	2.3	1.0	25	66	1	0.08
241130	08:02:22.72	38° 30.51'	112° 53.43'	2.2	1.0	25	66	1	0.09
241130	08:04:42.05	38° 30.44'	112° 53.51'	2.5	0.7	25	65	1	0.09
241130	10:14:41.43	38° 30.54'	112° 53.58'	2.7	-0.5	22	108	1	0.08
241130	10:15:20.84	39° 41.92'	110° 49.44'	-3.5	1.8W	23	58	8	0.21
241130	13:15:30.84	38° 30.51'	112° 53.53'	2.5	0.5	22	107	1	0.07
241130	14:45:35.62	38° 30.73'	112° 53.49'	2.4	0.9	23	109	1	0.07
241130	14:57:58.91	38° 30.60'	112° 53.59'	2.2	1.0	23	108	1	0.07
241130	14:59:15.09	38° 30.41'	112° 53.60'	1.8	1.1	24	70	1	0.09

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241130	15:27:51.95	38° 30.65'	112° 53.67'	2.0	1.4	21	110	1	0.08
241130	15:56:11.80	38° 30.53'	112° 53.58'	2.8	1.4	25	108	1	0.08
241130	16:06:50.84	38° 30.69'	112° 53.58'	2.2	1.1	21	110	1	0.07
241130	16:31:40.11	38° 30.63'	112° 53.41'	2.2	1.6	22	60	1	0.09
241130	16:53:13.03	38° 30.89'	112° 53.39'	2.3	0.1	19	110	1	0.08
241130	17:51:48.74	39° 01.41'	111° 24.77'	-3.4	1.2	5	129	5	0.19
241130	20:40:42.41	37° 36.61'	113° 36.95'	1.7*	1.1W	13	80	23	0.14
241130	21:11:43.88	38° 30.55'	112° 53.67'	2.2	0.9	20	109	1	0.07
241130	21:57:10.86	38° 30.62'	112° 53.53'	2.3	0.8	22	108	1	0.07
241130	22:53:45.21	38° 30.35'	112° 53.68'	2.3	1.3	25	66	1	0.08
241201	01:47:13.64	38° 30.67'	112° 53.49'	2.4	1.1	19	109	1	0.07
241201	02:43:04.12	38° 30.64'	112° 53.61'	2.7	1.0	20	109	1	0.07
241201	03:01:23.28	38° 30.39'	112° 53.23'	1.6	1.3	25	65	1	0.14
241201	03:13:44.71	38° 30.63'	112° 53.49'	1.8	1.0	26	66	1	0.11
241201	03:41:46.47	38° 30.56'	112° 53.60'	1.8	1.2	24	67	1	0.08
241201	03:43:39.23	38° 30.18'	112° 53.14'	2.9	1.6W	43	40	0	0.18
241201	05:35:57.80	38° 30.57'	112° 53.01'	1.9	0.6	24	102	0	0.12
241201	05:37:36.37	38° 30.50'	112° 53.54'	2.1	1.1	24	107	1	0.08
241201	05:49:51.76	38° 30.52'	112° 53.47'	2.4	0.8	20	107	1	0.07
241201	06:12:03.98	38° 30.52'	112° 53.56'	2.4	1.1	23	108	1	0.07
241201	06:14:34.61	38° 30.33'	112° 53.31'	2.4	1.5	23	55	0	0.11
241201	06:23:16.49	38° 30.53'	112° 53.61'	2.1	1.2	24	67	1	0.08
241201	06:38:59.12	38° 30.37'	112° 53.12'	1.9	0.9	31	46	1	0.15
241201	07:28:54.34	38° 30.52'	112° 53.12'	2.3	1.1	24	57	1	0.12
241201	08:25:05.51	38° 30.16'	112° 53.32'	2.5	1.9W	31	40	0	0.16
241201	08:25:55.31	38° 30.38'	112° 52.95'	2.0	1.4	23	54	1	0.11
241201	08:38:22.85	38° 30.32'	112° 53.60'	2.3	1.2	22	71	1	0.08
241201	09:30:31.08	38° 30.58'	112° 53.68'	2.4	0.9	20	109	1	0.07
241201	09:31:05.12	38° 30.37'	112° 53.19'	2.3	1.3W	35	47	1	0.15
241201	10:49:35.88	38° 30.34'	112° 53.67'	2.2	1.6W	33	44	1	0.11
241201	11:43:53.37	38° 30.66'	112° 53.09'	1.1	0.9	20	58	0	0.11
241201	12:21:35.23	38° 30.64'	112° 53.59'	2.1	1.0	25	109	1	0.08
241201	12:55:04.66	38° 30.47'	112° 53.14'	1.6	1.6W	40	38	1	0.16
241201	13:23:07.06	38° 30.36'	112° 53.39'	2.0	1.2	26	56	1	0.12
241201	13:41:04.74	38° 30.37'	112° 53.34'	1.6	0.7	18	58	1	0.08
241201	16:06:40.92	38° 30.75'	112° 53.60'	2.3	1.1W	24	67	1	0.10
241201	16:26:58.77	38° 30.39'	112° 52.93'	1.8	1.7W	25	47	1	0.15
241201	19:45:37.68	38° 14.13'	112° 45.04'	-0.6*	1.4W	20	121	22	0.10
241201	21:26:41.42	38° 30.55'	112° 53.54'	2.3	0.3	18	208	1	0.07
241201	21:26:47.99	38° 30.55'	112° 53.52'	2.7	1.7	19	107	1	0.08
241201	21:54:06.43	38° 30.66'	112° 53.54'	2.0	1.0	19	109	1	0.08
241201	22:19:08.86	38° 30.52'	112° 53.62'	1.9	1.2	23	61	1	0.10
241201	22:37:58.89	38° 30.69'	112° 53.44'	1.9	1.0	23	109	1	0.11
241201	23:11:29.36	38° 30.67'	112° 53.59'	2.1	0.3	15	211	1	0.07

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241202	02:04:48.35	38° 30.56'	112° 53.50'	2.4	1.5	24	107	1	0.09
241202	04:31:15.16	38° 30.83'	112° 53.65'	2.2	1.2	22	113	1	0.08
241202	04:48:05.48	38° 30.34'	112° 53.03'	1.9	1.5W	18	60	1	0.10
241202	04:48:21.44	38° 30.44'	112° 53.08'	2.3	1.5W	30	56	1	0.13
241202	05:14:29.18	38° 30.46'	112° 53.61'	2.7	1.0	24	107	1	0.08
241202	05:38:36.50	38° 30.71'	112° 53.37'	1.8	0.7	22	108	1	0.08
241202	05:49:16.73	38° 30.47'	112° 53.47'	1.5	1.1	27	48	1	0.10
241202	06:00:26.88	38° 30.76'	112° 53.60'	2.0	0.4	17	111	1	0.07
241202	06:00:30.45	38° 30.86'	112° 53.47'	2.0	1.1	16	111	1	0.07
241202	06:36:02.63	38° 30.68'	112° 53.41'	1.9	1.0	26	60	1	0.11
241202	07:22:48.20	38° 30.43'	112° 53.12'	1.6	1.5	25	57	1	0.13
241202	09:15:55.60	38° 30.38'	112° 52.98'	1.7	1.0	23	56	1	0.11
241202	12:23:09.13	38° 30.15'	112° 53.28'	1.5	-0.3	14	101	0	0.06
241202	12:23:21.90	38° 30.36'	112° 53.70'	2.7	1.4W	27	66	1	0.08
241202	12:25:58.48	37° 33.88'	113° 02.29'	5.9*	1.0	6	171	16	0.03
241202	14:20:24.96	38° 30.34'	112° 53.08'	1.6	0.9	18	73	0	0.08
241202	14:29:55.40	38° 30.59'	112° 53.82'	2.1	0.8	12	231	1	0.06
241202	14:38:11.24	41° 38.37'	112° 20.18'	5.4	1.0	18	73	9	0.13
241202	14:51:33.35	38° 30.19'	112° 53.43'	2.2	1.3W	30	47	0	0.13
241202	16:20:50.35	38° 30.54'	112° 53.69'	2.7	1.3	19	109	1	0.07
241202	18:33:48.07	38° 30.27'	112° 53.10'	2.1	1.0W	27	56	0	0.13
241202	19:17:22.96	38° 30.39'	112° 53.14'	1.7	0.6	12	130	1	0.10
241202	20:29:33.64	38° 30.31'	112° 53.36'	2.3	1.2	28	64	0	0.12
241202	21:11:04.92	38° 30.12'	112° 53.15'	2.1	0.8	28	46	0	0.15
241202	21:28:09.84	38° 30.73'	112° 53.64'	2.3	0.3	21	111	1	0.08
241202	21:28:43.82	38° 30.51'	112° 53.54'	2.5	0.5	21	107	1	0.08
241202	22:18:11.23	38° 30.53'	112° 53.46'	2.3	1.2	24	60	1	0.07
241203	00:05:21.02	38° 30.36'	112° 53.40'	2.6	1.6	30	49	1	0.14
241203	01:19:49.85	38° 30.36'	112° 53.46'	2.5	1.0	17	105	1	0.07
241203	02:13:51.26	38° 30.56'	112° 53.62'	2.7	1.3	23	109	1	0.07
241203	04:15:31.55	38° 30.42'	112° 53.52'	2.3	1.7W	33	44	1	0.11
241203	04:57:17.85	38° 30.70'	112° 53.49'	2.1	0.3	19	109	1	0.07
241203	04:57:20.73	38° 30.48'	112° 53.20'	2.1	1.5	22	57	1	0.09
241203	05:12:58.58	38° 30.41'	112° 53.26'	2.0	0.1	15	91	1	0.07
241203	06:13:39.34	38° 30.24'	112° 53.21'	2.1	1.3	29	54	0	0.14
241203	06:42:13.02	38° 30.34'	112° 53.59'	2.6	0.4	19	105	1	0.07
241203	10:44:36.36	39° 04.79'	110° 45.51'	24.5	1.0W	16	164	21	0.07
241203	10:48:41.11	38° 30.41'	112° 52.96'	1.8	0.4	22	57	1	0.10
241203	11:18:54.61	39° 00.90'	111° 25.07'	-1.6	1.3	7	132	5	0.03
241203	13:25:18.80	38° 30.25'	112° 53.04'	2.3	1.1W	27	56	0	0.12
241203	13:53:40.55	38° 30.54'	112° 53.18'	2.1	0.8W	24	58	1	0.13
241203	14:19:31.59	38° 30.29'	112° 53.07'	1.7	1.0	19	63	0	0.09
241203	14:39:48.77	38° 30.30'	112° 53.31'	1.7	1.3W	28	57	0	0.14
241203	14:49:10.28	38° 30.34'	112° 53.24'	2.0	0.2	16	74	0	0.11

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241203	14:56:05.35	39° 16.27'	111° 53.58'	14.3	0.6	11	84	23	0.21
241203	15:36:15.36	38° 30.46'	112° 53.25'	1.8	0.9	24	58	1	0.12
241203	16:20:17.42	38° 30.63'	112° 53.36'	1.9	1.0	20	60	1	0.12
241203	16:52:16.52	38° 30.48'	112° 53.29'	2.1	1.7W	31	59	1	0.13
241203	16:59:02.93	38° 30.37'	112° 53.24'	2.1	0.9	21	58	1	0.09
241203	17:08:42.93	38° 30.30'	112° 53.35'	2.0	1.2	20	58	0	0.09
241203	19:44:18.35	38° 30.26'	112° 53.57'	2.0	1.7W	27	50	1	0.11
241203	19:54:28.91	39° 41.73'	110° 48.77'	-3.3	1.4W	11	99	7	0.17
241203	20:49:49.32	38° 30.77'	112° 53.55'	2.4	0.9W	23	60	1	0.09
241203	21:20:38.35	38° 30.58'	112° 53.82'	2.4	1.6W	33	45	1	0.09
241203	21:57:45.18	38° 30.54'	112° 53.36'	2.0	1.1	24	59	1	0.11
241203	22:41:16.77	38° 32.97'	112° 09.60'	12.9*	1.6W	17	119	26	0.08
241203	23:40:56.06	39° 10.91'	112° 03.12'	15.2	0.6	6	99	7	0.05
241204	02:11:23.55	38° 30.44'	112° 53.58'	2.4	0.5	25	106	1	0.09
241204	02:11:31.38	38° 30.51'	112° 53.61'	2.2	1.7W	23	108	1	0.09
241204	02:13:44.39	38° 30.75'	112° 53.58'	2.1	1.1	22	110	1	0.08
241204	02:47:00.02	38° 30.63'	112° 53.22'	2.1	0.4	19	106	1	0.08
241204	05:23:26.98	38° 30.37'	112° 53.03'	2.0	1.1	23	56	1	0.11
241204	05:30:46.77	38° 30.27'	112° 53.22'	2.2	0.7	22	57	0	0.12
241204	07:02:48.42	39° 00.18'	111° 24.28'	-0.8	1.4W	14	83	4	0.08
241204	07:36:34.23	38° 30.58'	112° 53.21'	2.3	1.0	26	58	1	0.12
241204	09:06:22.50	38° 30.64'	112° 53.34'	2.2	0.9	17	107	1	0.08
241204	09:46:51.59	38° 30.43'	112° 53.06'	1.9	0.9	22	56	1	0.11
241204	09:54:04.17	38° 30.46'	112° 53.09'	1.9	1.1	26	57	1	0.11
241204	11:21:42.26	38° 30.33'	112° 53.03'	2.0	0.9W	27	57	1	0.11
241204	11:37:48.19	40° 43.01'	112° 04.05'	8.0	0.9W	23	81	3	0.14
241204	12:05:38.97	38° 30.58'	112° 53.08'	1.4	0.9W	29	57	1	0.12
241204	12:07:54.97	38° 30.56'	112° 54.76'	1.4	-0.6	10	246	2	0.11
241204	12:08:05.56	37° 41.44'	113° 15.36'	0.0*	1.3W	14	123	15	0.18
241204	12:18:13.77	38° 30.56'	112° 53.31'	2.1	0.8	24	58	1	0.10
241204	12:18:35.42	37° 41.66'	113° 14.55'	2.1*	1.1	7	187	18	0.11
241204	12:20:05.32	37° 41.71'	113° 14.68'	3.0*	1.7W	16	76	14	0.14
241204	14:19:00.40	39° 31.76'	111° 29.98'	6.3*	2.1W	30	51	24	0.17
241204	14:20:33.90	39° 31.94'	111° 29.77'	2.4*	1.4	16	73	24	0.11
241204	16:16:24.02	38° 30.47'	112° 53.24'	2.1	1.2	26	58	1	0.13
241204	16:47:07.06	38° 30.37'	112° 53.32'	2.3	1.0	19	58	1	0.09
241204	17:44:12.42	38° 29.85'	112° 53.36'	2.2	1.8W	26	42	1	0.18
241204	17:55:17.54	38° 30.34'	112° 53.08'	1.9	1.0	24	57	0	0.11
241204	20:08:53.06	41° 35.87'	112° 24.71'	4.5*	0.8	7	118	14	0.16
241205	05:54:55.52	38° 30.73'	112° 53.27'	2.4	0.7	24	61	1	0.10
241205	05:55:56.86	39° 40.98'	110° 48.39'	-3.3	1.8W	10	143	8	0.14
241205	06:15:32.13	38° 30.70'	112° 53.65'	2.7	1.6W	27	68	1	0.09
241205	06:54:21.05	38° 30.57'	112° 53.85'	2.4	1.4W	27	60	1	0.09
241205	09:32:25.52	38° 30.58'	112° 53.32'	1.9	0.8W	26	71	1	0.10

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241205	10:12:30.64	38° 30.26'	112° 53.07'	2.0	1.1W	25	56	0	0.12
241205	10:19:56.48	38° 30.41'	112° 53.89'	2.5	1.7W	27	86	1	0.07
241205	12:17:40.73	38° 30.36'	112° 53.10'	1.6	1.0	24	57	1	0.13
241205	15:19:24.60	38° 30.30'	112° 53.39'	1.8	1.0	27	58	0	0.13
241205	15:24:04.12	38° 30.26'	112° 53.25'	2.0	0.9W	26	65	0	0.13
241205	15:36:12.93	39° 00.06'	111° 24.20'	-1.6	0.7W	8	130	4	0.06
241205	16:07:56.79	38° 30.10'	112° 53.21'	1.7	0.9	22	56	0	0.11
241205	17:28:01.96	38° 30.19'	112° 53.78'	2.0	1.7W	35	43	1	0.09
241205	18:00:49.15	38° 30.24'	112° 53.57'	2.1	1.2	28	59	1	0.12
241205	18:26:49.27	38° 30.45'	112° 53.20'	2.7	-0.1	16	192	1	0.06
241205	18:45:50.11	38° 30.41'	112° 53.90'	2.2	1.1W	26	109	1	0.08
241205	23:20:03.71	38° 30.38'	112° 53.94'	2.1	1.7W	27	66	1	0.09
241205	23:43:20.92	38° 59.61'	111° 24.31'	-1.0	0.8W	6	132	4	0.10
241206	06:14:55.47	39° 42.06'	110° 49.48'	-3.2	1.2W	12	103	8	0.18
241206	06:46:08.43	38° 30.72'	112° 54.10'	2.1	0.8	20	115	2	0.10
241206	07:23:18.61	38° 30.54'	112° 53.73'	2.1	1.2W	27	67	1	0.10
241206	08:44:41.71	39° 00.10'	111° 24.02'	0.0	1.3W	11	82	4	0.07
241206	19:51:06.94	38° 30.32'	112° 53.82'	2.5	0.9	26	65	1	0.08
241206	21:21:32.11	38° 30.44'	112° 53.87'	2.0	1.4	28	66	1	0.10
241207	01:35:45.19	38° 30.54'	112° 53.54'	2.3	1.2	24	59	1	0.09
241207	02:20:58.66	37° 25.14'	114° 14.66'	11.1*	2.5W	15	83	35	0.20
241207	03:27:25.60	38° 30.32'	112° 53.62'	2.8	1.3	23	55	1	0.12
241207	05:17:05.32	38° 30.75'	112° 53.80'	2.1	0.5	25	113	1	0.09
241207	05:57:46.46	38° 30.46'	112° 53.68'	2.7	1.1	20	107	1	0.07
241207	06:49:33.06	38° 31.10'	112° 53.39'	1.5	0.1	15	206	2	0.07
241207	07:14:01.79	38° 30.14'	112° 53.54'	2.4	1.0	26	53	1	0.13
241207	07:44:40.05	38° 30.13'	112° 53.20'	2.3	0.7	26	53	0	0.15
241207	09:33:26.37	40° 44.47'	112° 01.81'	10.4	1.5W	48	36	2	0.18
241207	11:38:25.32	38° 30.40'	112° 53.88'	2.2	1.1	32	53	1	0.09
241207	14:35:48.99	38° 30.18'	112° 53.70'	2.8	0.8	25	60	1	0.12
241207	14:52:42.94	40° 44.08'	112° 02.14'	9.4	0.3	14	104	1	0.06
241207	15:56:21.97	38° 30.60'	112° 53.27'	2.6	0.9	24	59	1	0.11
241207	16:21:03.74	38° 30.26'	112° 53.28'	4.2	1.2	29	47	0	0.18
241207	16:21:09.67	39° 21.77'	111° 53.73'	11.5	1.2	8	108	17	0.07
241207	18:28:09.56	37° 43.85'	113° 12.16'	4.3*	1.5	12	102	12	0.17
241207	18:53:59.94	38° 30.34'	112° 53.48'	2.9	1.3	28	49	1	0.13
241207	19:29:34.89	38° 30.03'	112° 53.61'	2.7	1.1	25	51	1	0.12
241207	20:13:50.97	38° 29.97'	112° 53.73'	2.5	1.2W	19	56	1	0.08
241207	23:53:54.92	38° 30.82'	112° 53.44'	2.1	0.8	15	66	1	0.11
241208	05:24:32.61	40° 37.63'	112° 10.30'	1.4	0.6	10	93	5	0.23
241208	07:07:41.33	41° 42.98'	111° 38.83'	11.0	0.8	16	96	14	0.10
241208	07:18:23.29	38° 30.54'	112° 53.75'	2.2	1.3	30	67	1	0.11
241208	07:51:28.29	40° 44.05'	112° 02.01'	9.5	0.7	16	88	1	0.07
241208	08:25:40.74	38° 30.44'	112° 53.35'	2.3	1.3	29	65	1	0.12

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241208	09:13:12.62	38° 30.44'	112° 53.67'	2.3	1.2	24	66	1	0.12
241208	12:35:02.66	38° 30.45'	112° 53.89'	2.8	0.9	25	66	1	0.08
241208	14:02:12.65	38° 30.82'	112° 54.18'	2.8	2.3W	41	46	2	0.18
241208	15:36:18.88	38° 30.46'	112° 53.85'	2.9	0.6	23	109	1	0.08
241208	22:34:13.26	38° 10.34'	112° 41.19'	7.1*	2.4W	38	59	31	0.14
241208	22:38:23.17	38° 30.26'	112° 53.58'	2.8	1.7W	32	40	1	0.14
241208	22:57:08.18	38° 30.94'	112° 53.44'	2.3	0.9	23	60	1	0.09
241208	23:46:44.94	38° 30.45'	112° 53.84'	2.2	1.0	22	66	1	0.10
241209	02:25:11.29	38° 30.28'	112° 53.52'	1.9	1.6W	27	59	1	0.14
241209	03:05:03.89	38° 30.75'	112° 53.77'	3.2	0.4	17	161	1	0.08
241209	10:31:23.12	38° 30.38'	112° 53.32'	2.0	1.2	18	103	1	0.07
241209	11:47:23.79	38° 30.58'	112° 53.60'	2.3	0.9	20	108	1	0.08
241209	14:19:18.16	41° 49.25'	112° 28.42'	8.2*	0.8	6	117	17	0.20
241209	16:08:50.57	38° 30.03'	112° 53.76'	2.8	1.5W	31	64	1	0.12
241209	17:56:01.54	38° 30.87'	112° 53.71'	2.9	1.3	21	113	1	0.08
241209	18:52:24.63	38° 30.47'	112° 53.16'	1.8	1.4	16	82	1	0.11
241209	18:59:34.84	38° 30.27'	112° 53.43'	2.3	1.3	16	81	0	0.11
241209	21:49:50.39	38° 30.31'	112° 53.91'	2.8	1.6	21	108	1	0.07
241209	22:00:17.27	38° 30.85'	112° 53.50'	2.0	1.2	21	111	1	0.09
241209	23:41:55.34	38° 30.37'	112° 53.57'	2.9	1.7	26	56	1	0.12
241210	02:56:46.01	38° 30.35'	112° 53.67'	2.0	0.6	8	107	4	0.03
241210	02:58:49.58	38° 30.72'	112° 53.62'	1.8	1.3	24	111	1	0.09
241210	04:06:03.78	37° 43.67'	113° 03.52'	1.9	1.6	10	267	1	0.25
241210	04:41:24.93	38° 30.46'	112° 53.95'	2.6	1.1	24	64	1	0.09
241210	06:57:18.23	38° 48.24'	111° 25.59'	11.4	0.9W	16	108	3	0.10
241210	07:47:56.30	37° 09.34'	112° 57.50'	20.1	1.7W	12	95	20	0.09
241210	18:16:06.56	39° 42.07'	110° 48.97'	-2.4	1.9	11	101	7	0.14
241210	18:49:01.52	38° 30.29'	112° 53.58'	2.7	1.0	23	54	1	0.11
241210	20:18:55.62	38° 30.43'	112° 53.32'	1.6	1.3W	27	58	1	0.13
241210	23:08:00.12	38° 30.71'	112° 53.19'	2.7	1.1	16	81	1	0.08
241211	01:46:05.25	38° 31.03'	112° 53.78'	2.0	1.4W	22	73	1	0.12
241211	08:18:28.82	37° 33.52'	113° 02.91'	9.1	1.2	25	65	5	0.15
241211	08:46:29.36	37° 33.68'	113° 02.99'	10.4	1.2W	10	177	5	0.05
241211	14:25:31.51	38° 30.82'	112° 54.18'	1.5	1.8W	33	71	2	0.15
241211	19:58:40.97	38° 30.56'	112° 53.93'	2.8	1.0W	26	63	1	0.11
241211	20:23:57.97	41° 35.90'	112° 25.01'	7.1	1.9W	26	90	9	0.20
241211	22:09:29.69	38° 30.46'	112° 53.48'	2.4	1.1W	28	48	1	0.14
241211	22:15:06.99	38° 30.19'	112° 53.75'	3.0	0.5	18	104	1	0.07
241211	23:00:22.50	37° 41.72'	113° 01.91'	1.1	1.8	7	230	4	0.10
241212	00:14:29.53	38° 30.62'	112° 54.00'	2.3	1.2	25	67	2	0.10
241212	01:38:14.67	38° 30.64'	112° 53.85'	2.8	0.9W	21	111	1	0.09
241212	04:06:59.25	38° 30.74'	112° 53.55'	1.7	0.9W	26	67	1	0.11
241212	06:33:55.38	38° 30.62'	112° 53.98'	2.5	1.4W	26	88	2	0.12
241212	06:51:05.56	39° 44.47'	111° 12.94'	8.1	1.6	9	262	11	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241212	07:41:37.07	38° 30.24'	112° 54.15'	2.8	1.1W	31	45	1	0.13
241212	10:23:12.86	41° 38.84'	112° 20.07'	6.6	1.9W	41	68	10	0.21
241212	11:54:09.93	38° 30.49'	112° 54.14'	2.5	1.5W	37	55	2	0.12
241212	12:06:26.63	41° 33.55'	109° 51.49'	-3.5*	2.5W	24	157	12	0.20
241212	17:11:24.28	38° 30.18'	112° 54.17'	3.1	1.3W	31	75	1	0.12
241212	18:37:45.63	37° 35.70'	113° 18.44'	8.8	1.3W	12	117	7	0.17
241213	03:53:48.47	39° 00.71'	111° 25.35'	0.2	1.8	9	85	6	0.12
241213	10:08:40.08	41° 47.99'	112° 21.49'	7.2*	0.3	8	103	15	0.08
241213	13:51:27.17	41° 47.35'	112° 21.53'	0.9*	0.5	10	73	15	0.11
241213	14:11:20.40	41° 47.32'	112° 21.65'	-1.5*	0.3	9	73	15	0.10
241213	15:57:27.37	37° 04.73'	112° 53.75'	13.3	2.7W	25	114	10	0.19
241214	02:20:14.51	39° 41.95'	110° 50.11'	-3.4	1.9	13	150	9	0.17
241214	08:29:01.15	39° 42.08'	110° 49.20'	-2.8	1.9W	23	59	7	0.21
241214	11:11:00.97	39° 42.34'	110° 49.35'	-3.3	1.9	13	104	7	0.19
241214	14:03:08.22	39° 42.00'	110° 49.13'	-3.3	1.7	13	101	7	0.14
241214	14:04:37.04	39° 42.85'	110° 45.86'	5.0	1.6	11	83	3	0.18
241214	19:57:34.32	39° 42.47'	110° 48.96'	-2.4	1.6	10	102	7	0.16
241214	20:46:32.01	38° 30.06'	112° 54.14'	2.7	1.4	27	75	1	0.12
241215	04:26:30.64	39° 30.18'	110° 20.60'	1.7	1.6	10	138	9	0.10
241215	05:59:34.20	41° 33.23'	109° 53.05'	-2.7*	2.8W	19	155	12	0.15
241215	06:41:40.94	40° 44.36'	112° 03.36'	5.6	0.1	15	80	2	0.08
241215	08:56:49.83	38° 30.67'	112° 54.13'	3.0	1.1	14	114	2	0.08
241215	16:28:06.28	40° 49.99'	109° 31.70'	11.6*	2.8W	19	138	29	0.12
241215	16:36:35.55	39° 41.94'	110° 49.36'	-3.0	1.8W	15	103	8	0.19
241215	17:23:09.84	39° 42.12'	110° 50.46'	1.8	1.4	9	111	9	0.32
241215	17:23:37.87	39° 42.36'	110° 48.02'	-2.4	1.6W	9	95	6	0.20
241215	17:26:27.02	39° 42.34'	110° 49.29'	-3.4	1.6	12	103	7	0.14
241215	17:29:12.85	39° 42.51'	110° 50.51'	1.9	1.4W	10	209	9	0.22
241215	17:36:20.99	39° 42.20'	110° 49.23'	-3.4	1.5W	13	102	7	0.21
241215	18:27:46.75	39° 42.58'	110° 48.31'	-1.5	1.5	9	98	6	0.16
241215	19:33:51.47	38° 30.50'	112° 54.16'	2.7	0.4	18	120	2	0.08
241215	20:49:33.16	39° 41.93'	110° 50.76'	-3.5	1.4	10	210	10	0.26
241215	22:02:09.37	39° 42.60'	110° 47.76'	-2.1	1.6	9	94	5	0.20
241215	22:09:27.51	39° 43.11'	110° 50.36'	1.2	1.6	9	208	8	0.17
241216	01:06:33.32	37° 35.80'	113° 04.92'	11.6	2.5W	27	69	1	0.16
241216	01:39:54.98	39° 42.04'	110° 50.55'	-3.3	1.7	13	111	9	0.17
241216	03:04:26.13	39° 42.38'	110° 49.75'	-0.4	1.5	8	206	8	0.13
241216	04:43:55.95	39° 42.15'	110° 49.93'	-3.3	1.5W	15	107	8	0.15
241216	05:48:59.54	39° 42.25'	110° 48.31'	1.6	2.0W	17	97	6	0.25
241216	07:47:56.96	39° 42.08'	110° 50.28'	-3.5	1.5	12	152	9	0.19
241216	07:49:53.22	39° 41.89'	110° 49.84'	-3.4	1.7W	13	148	8	0.18
241216	08:14:27.57	39° 42.26'	110° 50.10'	1.8*	1.4W	10	168	12	0.14
241216	08:43:49.77	39° 41.99'	110° 49.42'	-3.3	2.0W	21	58	8	0.17
241216	08:48:08.78	38° 59.95'	111° 24.27'	-1.0	1.2W	9	131	4	0.10
241216	09:12:06.18	39° 42.28'	110° 49.87'	1.3	1.5	7	202	8	0.23

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241216	09:24:32.28	39° 00.60'	111° 23.78'	-1.7	1.1	7	126	4	0.11
241216	11:33:24.57	39° 42.14'	110° 50.33'	-3.3	1.4	9	207	9	0.15
241216	13:01:37.74	39° 41.95'	110° 50.57'	-3.4	1.5	10	209	9	0.16
241216	13:04:43.80	39° 42.53'	110° 51.54'	3.5*	1.5	7	219	12	0.16
241216	13:38:39.59	39° 42.38'	110° 52.42'	3.4*	1.3	6	226	13	0.16
241216	13:52:32.61	39° 41.98'	110° 50.25'	1.8*	1.5	8	108	13	0.16
241216	14:07:02.64	39° 42.74'	110° 50.87'	1.8*	1.6	9	117	12	0.17
241216	14:58:57.49	36° 46.65'	112° 55.06'	17.3	1.6	11	188	28	0.11
241216	15:57:15.38	39° 42.19'	110° 49.48'	-3.4	1.7	10	105	8	0.16
241216	19:30:50.51	39° 42.28'	110° 50.07'	-3.2	1.5	8	109	8	0.21
241216	20:49:20.13	39° 42.22'	110° 50.00'	-3.4	1.9	13	108	8	0.21
241216	22:20:53.23	39° 41.78'	110° 51.05'	-3.5	1.5	10	214	10	0.19
241216	23:29:00.80	39° 41.72'	110° 50.42'	-3.4	1.7	9	208	9	0.20
241217	01:43:55.71	39° 42.13'	110° 50.25'	-2.0	2.1W	29	53	9	0.20
241217	02:20:54.90	39° 41.71'	110° 50.02'	-3.5	2.0	9	205	9	0.18
241217	06:47:56.48	39° 41.74'	110° 49.15'	-3.3	1.3	11	100	8	0.18
241217	08:59:17.55	39° 41.94'	110° 50.04'	-2.8	1.5	10	204	9	0.12
241217	09:58:34.55	39° 42.09'	110° 49.71'	-2.0	1.5W	15	105	8	0.19
241217	10:36:12.62	39° 42.21'	110° 50.17'	-3.4	1.4	9	205	9	0.19
241217	12:07:18.34	39° 42.42'	110° 49.35'	-3.3	1.6W	16	65	7	0.15
241217	13:11:24.30	38° 30.15'	112° 54.20'	2.9	1.1W	25	75	1	0.12
241217	13:34:45.02	38° 30.38'	112° 53.95'	3.3	1.3	18	109	1	0.12
241217	13:41:45.75	38° 29.97'	112° 54.31'	2.5	1.1	16	77	2	0.11
241217	13:50:47.95	38° 30.54'	112° 54.24'	3.5	0.8	18	113	2	0.07
241217	13:57:20.85	39° 42.00'	110° 49.69'	-3.4	1.5	10	201	8	0.13
241217	15:38:27.77	39° 10.19'	111° 58.50'	15.7	1.1	8	95	14	0.09
241217	17:07:12.08	39° 41.71'	110° 50.28'	-3.4	1.7	12	151	9	0.19
241217	17:20:06.83	38° 30.51'	112° 54.29'	3.1	1.1	20	64	2	0.10
241217	19:17:44.96	38° 30.31'	112° 54.34'	3.1	1.1	25	75	2	0.09
241217	20:24:55.54	39° 41.59'	110° 48.55'	-1.2	1.6	9	192	7	0.27
241217	20:52:41.92	38° 30.76'	112° 54.37'	2.2	1.4	16	118	2	0.12
241218	02:48:56.09	42° 00.16'	112° 31.96'	8.7	1.2	21	144	16	0.14
241218	03:02:53.09	39° 42.53'	110° 51.00'	1.3	1.8	11	158	10	0.15
241218	03:49:29.39	37° 11.51'	112° 52.61'	21.1	1.2	8	187	20	0.10
241218	03:52:55.31	38° 30.38'	112° 54.28'	2.9	1.0	23	64	2	0.12
241218	04:58:17.43	38° 30.02'	112° 54.18'	2.7	1.3	24	62	1	0.13
241218	07:26:48.72	38° 44.45'	111° 36.57'	4.1*	1.3	8	202	17	0.06
241218	07:41:58.53	37° 11.62'	112° 52.97'	21.5	1.2	12	132	20	0.08
241218	09:05:33.95	39° 42.17'	110° 50.89'	-3.4	1.8	8	213	10	0.28
241218	09:17:41.46	41° 35.93'	112° 25.87'	0.7*	0.9	10	123	15	0.14
241218	09:56:29.19	39° 41.81'	110° 49.13'	-3.4	1.8	13	100	8	0.21
241218	10:02:54.41	39° 42.48'	110° 49.16'	-3.1	1.8W	13	102	7	0.15
241218	10:18:33.92	39° 42.33'	110° 51.08'	1.2	1.5	9	214	10	0.25
241218	13:02:13.95	38° 29.97'	112° 53.99'	2.7	1.4W	22	54	1	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241218	16:24:00.28	39° 42.52'	110° 49.39'	-3.1	1.8	11	104	7	0.19
241218	18:45:33.99	38° 30.42'	112° 54.44'	3.0	0.7	21	113	2	0.08
241218	18:46:26.85	38° 30.28'	112° 54.47'	2.0	0.7	13	111	5	0.05
241218	21:21:16.79	38° 30.30'	112° 54.33'	3.1	0.9	16	111	2	0.07
241218	22:20:03.24	39° 41.81'	110° 50.67'	-3.5	1.5	13	154	10	0.27
241219	02:48:27.69	38° 30.02'	112° 54.29'	2.8	0.7	23	77	2	0.12
241219	04:32:35.00	38° 30.27'	112° 54.45'	2.8	1.0	25	76	2	0.10
241219	11:04:17.15	39° 41.77'	110° 48.95'	-3.3	2.0	12	100	7	0.18
241219	15:19:59.27	38° 31.00'	112° 53.52'	2.1	2.0W	33	45	1	0.16
241219	20:34:02.09	38° 30.63'	112° 53.46'	2.5	1.2W	31	44	1	0.12
241219	21:54:21.05	38° 30.36'	112° 54.53'	3.3	0.9	17	113	2	0.07
241220	00:08:54.22	38° 22.12'	112° 50.12'	8.3	0.6	21	219	6	0.10
241220	02:12:34.68	39° 41.97'	110° 49.93'	-3.3	2.0	15	106	8	0.21
241220	02:38:16.52	39° 42.01'	110° 48.87'	-2.5	1.6	14	101	7	0.19
241220	03:08:54.27	38° 30.66'	112° 53.25'	2.4	0.5	25	59	1	0.15
241220	03:09:05.49	38° 30.22'	112° 54.13'	4.1	1.1	15	75	6	0.15
241220	12:40:15.32	39° 42.02'	110° 49.40'	-3.4	1.5W	14	103	8	0.21
241220	12:49:51.91	39° 42.35'	110° 49.89'	-3.4	1.4W	15	107	8	0.18
241220	13:31:31.03	41° 43.57'	112° 49.55'	7.3	0.9	11	241	7	0.15
241220	13:41:48.19	39° 41.98'	110° 49.26'	-3.4	1.8	14	102	8	0.20
241220	14:44:46.25	39° 42.15'	110° 49.62'	-3.3	1.8	14	104	8	0.18
241220	17:43:01.61	39° 25.45'	111° 59.16'	12.6	1.5W	25	56	17	0.20
241220	19:25:58.54	39° 42.50'	110° 49.83'	-3.3	1.4	11	108	8	0.18
241221	05:17:10.44	41° 35.85'	112° 25.29'	5.8	1.0	21	90	9	0.13
241221	06:25:46.18	38° 30.07'	112° 54.10'	2.0	1.4W	34	54	1	0.15
241221	06:30:02.24	38° 30.21'	112° 54.35'	2.7	1.2	23	110	2	0.07
241221	07:08:10.21	38° 34.14'	112° 11.52'	14.8	1.7W	29	61	23	0.15
241221	08:09:23.92	41° 35.47'	112° 25.14'	6.4	1.9W	34	91	9	0.19
241221	11:00:53.83	38° 59.08'	111° 25.26'	-3.4	1.5	5	138	6	0.15
241221	11:41:53.24	39° 41.73'	110° 49.96'	-3.3	1.5	12	203	9	0.15
241222	06:47:31.44	39° 42.41'	110° 51.56'	3.5*	1.8	8	218	12	0.16
241222	09:19:46.03	38° 30.07'	112° 54.85'	0.7	1.5W	16	85	2	0.14
241222	09:37:37.65	39° 42.16'	110° 49.54'	-3.2	2.0	14	104	8	0.20
241222	10:36:39.62	40° 56.67'	111° 37.27'	5.8*	1.2	30	69	12	0.21
241222	12:15:31.52	37° 48.06'	113° 06.98'	10.5	1.3	13	246	11	0.14
241222	12:16:06.69	37° 46.83'	113° 08.48'	9.0	1.2	12	224	10	0.22
241222	15:33:10.99	37° 04.87'	113° 36.66'	17.7	1.8	23	113	4	0.15
241222	19:23:56.73	39° 42.11'	110° 49.08'	-3.4	2.0W	19	63	7	0.20
241222	19:28:35.11	39° 42.63'	110° 50.05'	1.5	1.9	7	205	8	0.19
241223	00:32:18.14	39° 42.41'	110° 54.10'	1.8*	1.5	8	136	14	0.21
241223	02:18:57.77	41° 25.93'	112° 51.13'	10.8*	2.0W	36	174	36	0.23
241223	03:04:17.71	39° 42.28'	110° 50.20'	1.1	1.6	8	205	9	0.21
241223	08:30:26.16	39° 41.74'	110° 50.86'	-3.4	1.6	10	212	10	0.14
241223	12:27:00.29	39° 42.07'	110° 50.76'	1.3	1.9	9	211	9	0.21

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241223	13:15:13.03	39° 41.74'	110° 48.89'	-3.5	1.7	9	100	7	0.14
241223	13:44:11.76	41° 25.69'	112° 51.38'	10.5*	1.3W	19	174	37	0.12
241223	22:27:00.88	39° 42.24'	110° 49.73'	-3.3	1.8	13	106	8	0.16
241224	09:44:28.40	39° 42.73'	110° 50.27'	1.7	1.9	12	206	8	0.17
241224	14:02:23.42	38° 32.03'	112° 53.22'	2.4	0.9	19	127	2	0.15
241224	14:24:49.10	38° 29.99'	112° 53.78'	2.5	0.8	25	60	1	0.12
241224	15:25:26.17	39° 42.18'	110° 49.21'	1.8*	2.0	10	102	12	0.19
241224	17:48:48.46	39° 42.27'	110° 50.72'	-3.4	1.8	8	211	9	0.25
241224	22:41:54.07	42° 12.67'	112° 38.96'	0.1*	1.3	11	139	13	0.11
241224	23:44:12.28	42° 13.98'	112° 38.30'	6.1*	1.5W	14	138	14	0.12
241225	08:37:21.81	39° 42.19'	110° 49.60'	-3.4	1.9W	18	66	8	0.20
241225	09:06:17.21	39° 42.35'	110° 50.83'	1.8*	1.5	7	157	12	0.20
241225	09:24:29.06	39° 41.96'	110° 49.36'	-3.4	1.8W	16	64	8	0.14
241225	09:35:54.61	39° 42.18'	110° 50.30'	-3.4	1.8	10	152	9	0.20
241225	10:36:00.47	39° 42.47'	110° 50.57'	1.8*	1.6W	10	155	12	0.12
241225	11:34:44.09	39° 37.96'	111° 19.87'	2.9*	1.9W	28	54	11	0.21
241225	17:29:37.64	39° 33.67'	111° 22.35'	2.3*	1.3	13	156	17	0.17
241225	21:08:48.49	39° 42.12'	110° 49.30'	-3.4	1.5	8	102	7	0.16
241226	01:34:18.51	41° 33.55'	109° 53.01'	-1.9*	3.3W	18	155	12	0.17
241226	02:50:05.14	41° 35.92'	112° 25.27'	6.5	1.0	21	90	9	0.15
241226	03:39:18.08	39° 42.42'	110° 51.32'	3.5*	1.9	9	216	12	0.13
241226	06:03:54.91	39° 41.78'	110° 49.38'	-3.3	1.5	8	199	8	0.22
241226	13:28:16.29	36° 46.58'	113° 29.33'	17.7	2.0W	12	151	34	0.07
241226	19:01:40.18	39° 42.03'	110° 48.82'	-3.3	1.5W	11	100	7	0.16
241226	19:47:54.11	39° 42.60'	110° 49.76'	1.8	1.2	6	202	8	0.30
241226	22:12:39.08	39° 42.04'	110° 50.87'	1.8*	2.0	8	212	13	0.18
241227	02:14:15.68	41° 34.67'	112° 25.39'	5.4*	0.9	7	123	15	0.12
241227	03:56:49.77	39° 41.84'	110° 49.53'	-3.4	1.7	5	200	8	0.19
241227	04:47:11.97	39° 42.29'	110° 50.34'	2.7*	1.5	8	207	12	0.14
241227	06:41:15.78	39° 41.92'	110° 50.06'	-3.4	1.8	9	204	9	0.15
241227	13:03:45.18	38° 09.54'	112° 13.52'	1.9*	1.9	11	107	14	0.18
241227	13:20:29.26	39° 42.73'	110° 49.23'	1.4	1.8	9	104	7	0.28
241227	13:21:39.70	37° 47.47'	112° 30.16'	8.3*	1.7W	15	111	39	0.21
241227	18:18:15.93	39° 42.31'	110° 51.07'	1.8*	1.5	6	116	12	0.15
241228	10:59:33.02	39° 41.97'	110° 49.73'	-3.0	1.3	12	105	8	0.16
241228	11:48:56.31	39° 41.70'	110° 48.98'	-3.4	2.0	12	100	7	0.19
241228	18:08:06.25	41° 36.03'	112° 24.79'	6.5	1.8W	30	89	9	0.19
241228	19:45:29.80	38° 30.71'	112° 54.79'	2.8	0.7	18	173	3	0.08
241228	21:59:35.22	39° 37.71'	111° 19.93'	-2.2*	2.0W	32	60	11	0.17
241229	02:45:42.08	37° 29.69'	113° 54.74'	0.3	1.2	11	146	6	0.17
241229	04:45:39.50	39° 42.90'	110° 48.40'	3.5	1.4	11	189	6	0.25
241229	13:33:08.27	37° 37.24'	113° 07.42'	0.7	1.5W	11	100	4	0.10
241229	23:02:39.54	38° 30.98'	112° 53.42'	2.5	0.9	12	159	1	0.08
241230	02:05:27.10	38° 08.84'	112° 38.20'	3.9*	1.8W	13	89	40	0.26

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2024

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
241230	03:57:24.65	37° 24.78'	113° 51.50'	7.9	1.0	7	169	5	0.18
241230	04:07:28.90	39° 41.91'	110° 49.45'	-2.8	1.4	13	199	8	0.11
241230	05:07:07.41	39° 42.33'	110° 36.84'	-2.0	1.5	9	82	3	0.06
241230	05:36:18.39	41° 35.05'	112° 25.03'	1.3	0.6	7	122	10	0.02
241230	13:13:55.55	37° 04.06'	112° 54.38'	17.6	1.3W	15	117	9	0.09
241230	13:21:00.56	37° 04.11'	112° 54.50'	17.7	1.1W	13	117	10	0.09
241230	14:20:47.10	39° 42.26'	110° 49.93'	-3.5	1.7	9	108	8	0.24
241230	16:14:28.29	37° 11.26'	112° 53.22'	19.5	1.7W	14	76	20	0.14
241230	17:55:50.38	39° 30.56'	110° 20.63'	-1.5	1.3	10	138	10	0.04
241231	07:39:58.22	41° 35.51'	112° 25.14'	5.7	0.9	19	91	9	0.16
241231	08:55:57.91	39° 42.21'	110° 50.52'	-3.5	1.5	12	111	9	0.20
241231	09:56:14.21	41° 26.52'	112° 10.61'	11.1	1.4W	34	70	14	0.28
241231	12:29:56.04	38° 10.72'	112° 40.42'	3.6*	2.1W	21	66	35	0.18
241231	19:10:57.93	39° 42.42'	110° 49.69'	-2.5	1.6	13	106	8	0.22
241231	21:08:20.95	39° 41.65'	110° 48.66'	-2.9	2.2W	16	97	7	0.15
241231	21:44:43.65	39° 41.86'	110° 50.43'	-3.2	1.8W	14	109	9	0.17
241231	21:53:52.72	39° 41.88'	110° 48.57'	-2.4	2.0W	14	98	7	0.17
241231	22:47:55.27	39° 41.87'	110° 49.82'	-3.4	1.7W	10	106	8	0.22
241231	22:59:23.70	39° 41.80'	110° 48.63'	-3.5	1.7W	13	98	7	0.15

number of earthquakes = 681

* 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
December 31, 2024

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
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
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	HH[Z12]	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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			
BEID	Bear River, ID	HN[ZEN]	3	UU	42° 07.00'	111° 46.97'	1864	Trillium 120	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
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	EN[ZEN]	6	UU	37° 35.63'	112° 51.72'	3250	Titan	Centaur	Digital	Utah, USGS
BHUT	Beaver High School, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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			
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
CAP2	Utah Capitol Maint. Facility, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.78'	111° 53.34'	1381	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	HH[ZEN]	3	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	MB	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	Canyon View High School, Cedar City, 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
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	HH[Z12]	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
ECMT	Emigrant Creek, MT	HH[ZEN]	3	MB	45° 19.27'	110° 44.39'	1567	*	*	Digital	MBMT
		EN[ZEN]	3								
ECRI	Eagle Creek, ID	HHZ	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	HH[ZEN]	3	UU	37° 04.48'	112° 29.81'	1829	Titan	Centaur	Digital	Utah, USGS
		EN[ZEN]	3					Trillium 120			
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	HH[Z12]	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	Centaur	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
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	Obsidian	Digital	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					EpiSensor			
FLWY	Flagg Ranch, WY	BH[Z12]	3	IW	44° 04.96'	110° 41.96'	2078	3ESP	RT-130	Digital	ANSS
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					Silicon-ULN			
		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
FORW	Milford Wind Farm, UT	EN[ZEN]	3	UU	38° 33.76'	112° 56.21'	1516	EpiSensor	Obsidian	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
FPU	Francis Peak, UT	HH[ZEN]	3	UU	41° 01.58'	111° 50.21'	2816	Trillium 120	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
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								
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	HH[ZEN]	3	UU	39° 43.35'	113° 23.48'	1487	Trillium 120	Centaur	Digital	Utah, USGS
		EN[ZEN]	3					Titan			
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
GRR1	Grays Lake, ID	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INL
GTRI	Grays Lake, ID	HH[12]	2	IE	43° 14.64'	113° 14.46'	1547	*	*	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
HDUT	Hyde Park, UT	HH[ZEN]	3	UU	41° 48.19'	111° 45.96'	1846	Trillium 120	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
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
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
HLJ	Hailstone, UT	HH[ZEN]	3	UU	40° 36.64'	111° 24.05'	1931	Trillium 120	Centaur	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
HMU	Henry Mountain, UT	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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								
HVV	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	HH[Z12]	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	Etna2	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	Trillium 120	Centaur	Digital	Utah
		EN[ZEN]	3					EpiSensor			
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
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	HH[Z12]	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	EN[ZEN]	3	UU	41° 35.51'	112° 14.83'	1585	EpiSensor	Basalt	Digital	USGS
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	EN[ZEN]	3	UU	38° 11.57'	111° 17.66'	2387	Titan	Centaur	Digital	Utah, USGS
		HH[ZEN]	3					Trillium 120			
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	EN[ZEN]	6	UU	41° 42.55'	112° 27.28'	1373	Titan	Centaur	Digital	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
NAI	North Antelope Island, UT	EHZ	1	UU	41° 00.97'	112° 13.68'	1472	L4C	Obsidian	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
PD31	PDAR Array, Pinedale, WY	BH[ZEN]	3	IM	42° 05.97'	109° 52.36'	2219	*	*	Digital	FDSN
PEUT	Pahvant Elementary School, Richfield, UT	EN[ZEN]	3	UU	38° 46.55'	112° 05.32'	1644	PA-23	SMART-24	Digital	Utah
PGAZ	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			
PLID	Pearl Lake, ID	BH[Z12]	3	IW	45° 05.25'	116° 00.02'	2164	*	*	Digital	ANSS
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			
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
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	EN[ZEN]	3	UU	40° 39.51'	111° 26.36'	2090	Titan	Centaur	Digital	Utah
		EN[ZEN]	3					Titan			
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			
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
RPF	Rose Park Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.52'	111° 55.22'	1287	EpiSensor	Etna2	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			
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								

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	EN[ZEN]	3	UU	39° 10.94'	111° 38.68'	2357	Trillium 120	Centaur	Digital	USGS
		HH[ZEN]	3					Titan			
SHED	SR 201/I-80 Bridge Array, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.32'	111° 54.37'	1290	EpiSensor	K2	Digital	NSMP, ANSS
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	EN[ZEN]	6	UU	39° 19.18'	111° 32.33'	2503	Titan	Centaur	Digital	Utah, USGS
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]	6					Trillium 120	ANSS-130	Digital	
		EN[ZEN]	3					EpiSensor			
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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	Teepe 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	HH[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
VNL2	Vernal, UT	EN[ZEN]	3	UU	40° 27.53'	109° 32.90'	1647	Titan	SMA	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			
W13A	Hualapai Mountain Park, Kingman, AZ	HH[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	Etna2	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
WCU	Willow Creek, UT	EHZ	1	UU	38° 57.88'	112° 05.44'	2673	18300	PSN	Analog	USGS
		EHZ	1					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					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	EN[ZEN]	6	UU	41° 36.61'	111° 57.55'	1828	Titan	Centaur	Digital	USGS
YDC	Denny Creek, MT	HH[ZEN]	3	WY	44° 42.51'	111° 14.60'	2025	Trillium 120	Centaur	Digital	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	HH[ZEN]	3	WY	44° 47.77'	111° 06.45'	2075	Trillium 120	Centaur	Digital	USGS
YHB	Horse Butte, MT	HH[ZEN]	3	WY	44° 45.07'	111° 11.71'	2157	Compact	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Centaur	Digital	
		EN[ZEN]	3					Titan			
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	HH[ZEN]	3	WY	44° 45.33'	110° 20.95'	2684	Trillium 120	Centaur	Digital	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YMP	Mirror Plateau (YNP), WY	EHZ	1	WY	44° 44.38'	110° 09.40'	2774	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		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	HH[ZEN]	3	WY	44° 58.42'	110° 41.33'	1829	Trillium 120	Centaur	Digital	USGS
YNB	Norris Basin, YNP, WY, USA	HH[ZEN]	3	WY	44° 43.64'	110° 42.67'	2307	Trillium 120	Centaur	Digital	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	Centaur	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	HH[ZEN]	3	WY	44° 16.26'	110° 48.27'	2707	Trillium 120	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
YTP	The Promontory (YNP), WY	EHZ	1	WY	44° 23.51'	110° 17.10'	2384	L4	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Centaur	Digital	
		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	HH[ZEN]	3	WY	44° 36.35'	111° 06.05'	2310	Trillium 120	Centaur	Digital	USGS
ZNPU	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: 1,106 data channels from 320 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

IM	International Miscellaneous Stations
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	Kinematics 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	Kinematics FBA-23 accelerometer
EpiSensor	Kinematics 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	Kinematics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinematics 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	Kinematics 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	Kinematics Obsidian (24-bit resolution field digitizer)
Etna2	Kinematics Etna 2 (24-bit resolution field digitizer)
SMA	Nanometrics Titan SMA

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 OCTOBER 1–DECEMBER 31, 2024

October 9	VNL EN[ZEN] closed
November 15	VNL2 EN[ZEN] installed (replacement of VNL)