

# **EARTHQUAKE ACTIVITY IN THE UTAH REGION**

Preliminary Epicenters

October 1 – December 31, 2021

Prepared by the University of Utah Seismograph Stations and funded by the U.S. Geological Survey (Cooperative Agreement No. G20AP00036) and by the State of Utah

March 28, 2022

## Foreword and Data Explanation

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

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

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

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was MDT through 02:00 (2:00 a.m.) on November 7 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).



## EARTHQUAKE ACTIVITY IN THE UTAH REGION October 1 – December 31, 2021

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During the three-month period October 1, 2021, through December 31, 2021, the University of Utah Seismograph Stations (UUSS) located 782 earthquakes within the Utah region (Figure 1). The total includes five earthquakes in the magnitude 3 range and 90 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. Five earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2021 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 <sub>L</sub> 3.2	October 22	05:29 MDT	10 mi SSW of Levan, UT
M <sub>L</sub> 3.3	October 24	01:07 MDT	4 mi SSW of Beaver, UT
M <sub>L</sub> 3.0	October 25	11:52 MDT	4 mi SSW of Beaver, UT
M <sub>L</sub> 3.1	November 28	04:15 MST	17 mi SSE of Cedar City, UT
M <sub>L</sub> 3.6	December 21	15:36 MST	15 mi N of Colorado City, AZ

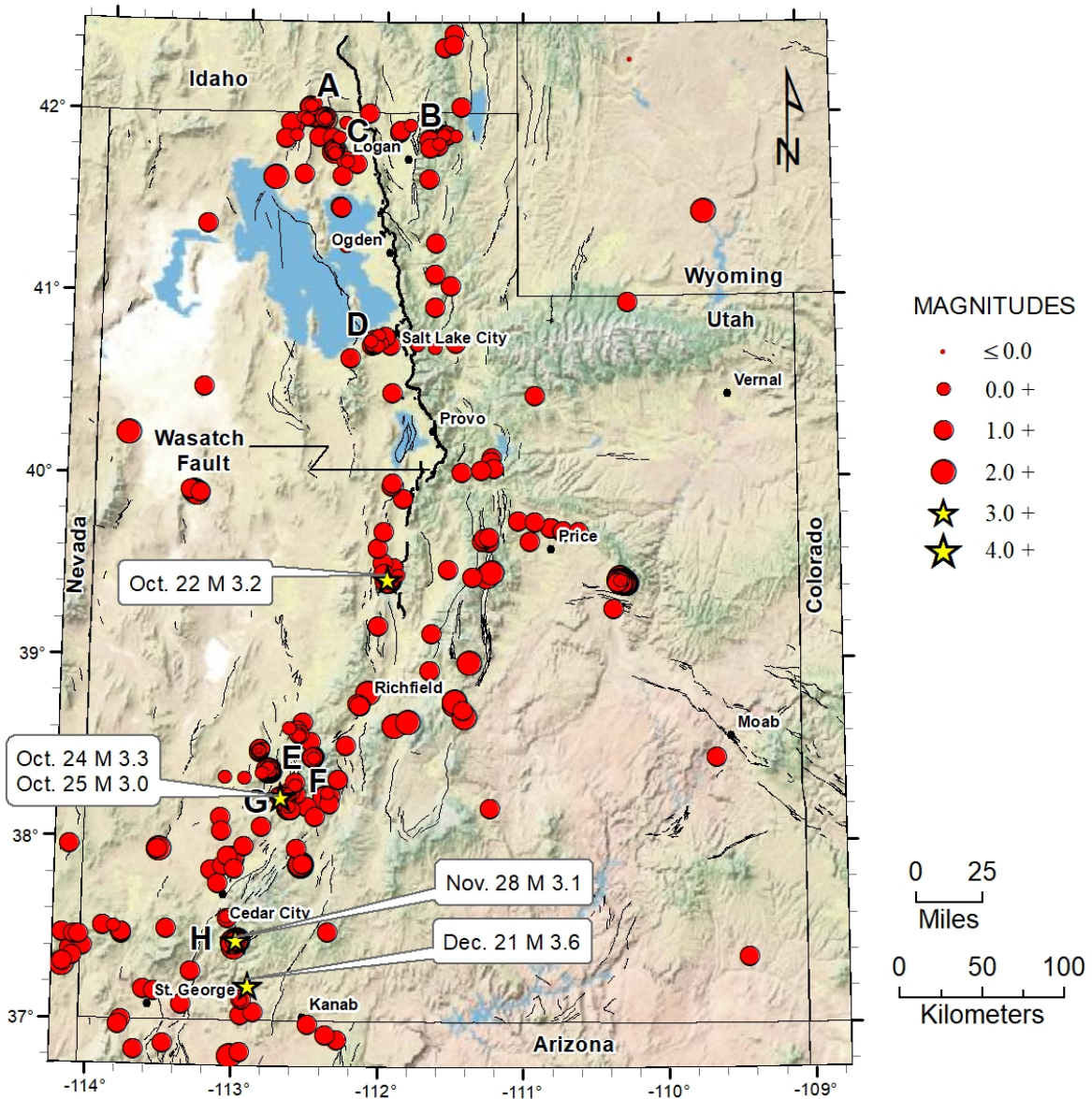
## Other Notable Seismicity

During the report period, there were eight 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 20 earthquakes ( $0.3 \leq M \leq 1.7$ ) occurred about 20 mi SW of Malad City, ID. Six of these events, including a magnitude 1.7 shock, occurred between November 4 and November 6.
- B. A cluster of 13 earthquakes ( $0.8 \leq M \leq 1.5$ ) occurred about 11 mi E of Richmond, UT. Seven of these events, including a magnitude 1.5 shock, occurred between November 13 and November 16.
- C. A cluster of 27 earthquakes ( $0.1 \leq M \leq 2.4$ ) occurred about 11 mi W of Garland, UT. 11 of these events, including a magnitude 2.4 shock, occurred between November 8 and November 15.
- D. A cluster of 26 earthquakes ( $0.1 \leq M \leq 1.8$ ) occurred about 5 mi NE of Magna, UT. Nine of these events, including a magnitude 1.8 shock, occurred between October 31 and November 10.
- E. A cluster of 11 earthquakes ( $0.9 \leq M \leq 1.7$ ) occurred about 14 mi SW of Sevier, UT. Four of these events, including a magnitude 1.7 shock, occurred on December 12.
- F. A cluster of 70 earthquakes ( $-0.9 \leq M \leq 2.9$ ) occurred about 12 mi NW of Beaver, UT. 26 of these events, including a magnitude 2.9 shock, occurred between November 27 and December 3.
- G. A cluster of 17 earthquakes ( $0.8 \leq M \leq 3.3$ ) occurred about 3 mi S of Beaver, UT. Five of these events, including a magnitude 3.3 shock, occurred between October 24 and November 1.
- H. A cluster of 34 earthquakes ( $1.0 \leq M \leq 3.1$ ) occurred about 16 mi SSE of Cedar City, UT. 12 of these events, including a magnitude 3.1 shock, occurred on November 28.

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 403 located shocks ( $0.8 \leq M \leq 2.8$ ) that occurred during the report period.

## Seismicity of the Utah Region October 1, 2021 - December 31, 2021



**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–H are discussed in the text.

**Table 1**

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

**January 1, 2021 to December 31, 2021**

<b>Date and Time†</b>	<b>Felt Information‡</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Magnitude§</b>
2021-03-05 23:31:15 MST 2021-03-06 06:31:15 UTC	<a href="#">DYFI</a>	40° 21.85'	111° 26.18'	M <sub>L</sub> 2.9
2021-03-28 19:35:57 MDT 2021-03-29 01:35:57 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	38° 20.15'	113° 06.03'	M <sub>L</sub> 3.2
2021-04-05 14:56:43 MDT 2021-04-05 20:56:43 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	38° 43.83'	112° 06.39'	M <sub>L</sub> 3.0
2021-04-06 13:20:39 MDT 2021-04-06 19:20:39 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	41° 30.68'	112° 52.09'	M <sub>L</sub> 3.5
2021-04-07 23:45:29 MDT 2021-04-08 05:45:29 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	37° 46.82'	112° 56.63'	M <sub>L</sub> 3.0
2021-04-25 06:29:54 MDT 2021-04-25 12:29:54 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	37° 48.20'	113° 01.85'	M <sub>L</sub> 3.0
2021-04-29 20:14:52 MDT 2021-04-30 02:14:52 UTC	<a href="#">DYFI</a>	41° 09.85'	111° 40.48'	M <sub>L</sub> 2.9
2021-05-16 19:22:18 MDT 2021-05-17 01:22:18 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	41° 41.60'	111° 35.29'	M <sub>L</sub> 3.2
2021-05-25 15:14:53 MDT 2021-05-25 21:14:53 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	38° 04.65'	112° 24.32'	M <sub>L</sub> 3.6
2021-06-09 13:52:50 MDT 2021-06-09 19:52:50 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	40° 18.61'	111° 03.30'	M <sub>L</sub> 3.7
2021-08-27 08:00:50 MDT 2021-08-27 14:00:30 UTC	<a href="#">DYFI</a>	40° 52.76'	109° 05.22'	M <sub>L</sub> 2.2
2021-09-11 11:10:07 MDT 2021-09-11 17:10:07 UTC	<a href="#">DYFI</a>	41° 39.10'	112° 19.90'	M <sub>L</sub> 2.6
2021-09-16 02:56:11 MDT 2021-09-16 08:56:11 UTC	<a href="#">DYFI</a>	37° 25.15'	113° 13.23'	M <sub>L</sub> 2.0
2021-09-24 05:32:42 MDT 2021-09-24 11:32:42 UTC	<a href="#">DYFI</a>	37° 51.32'	112° 32.55'	M <sub>L</sub> 2.0
2021-10-22 05:29:38 MDT 2021-10-22 11:29:38 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	39° 26.08'	111° 57.63'	M <sub>L</sub> 3.2
2021-10-24 01:07:52 MDT 2021-10-24 07:07:52 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	38° 14.08'	112° 41.20'	M <sub>L</sub> 3.3
2021-10-25 11:52:47 MDT 2021-10-25 17:52:47 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	38° 13.81'	112° 41.47'	M <sub>L</sub> 3.0

Date and Time†	Felt Information‡	Latitude	Longitude	Magnitude§
2021-11-28 04:15:46 MST 2021-11-28 11:15:46 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	37° 26.49'	112° 58.90'	M <sub>L</sub> 3.1
2021-12-21 15:36:45 MST 2021-12-21 22:36:45 UTC	<a href="#">DYFI</a> <a href="#">ShakeMap</a>	37° 11.43'	112° 53.63'	M <sub>L</sub> 3.6

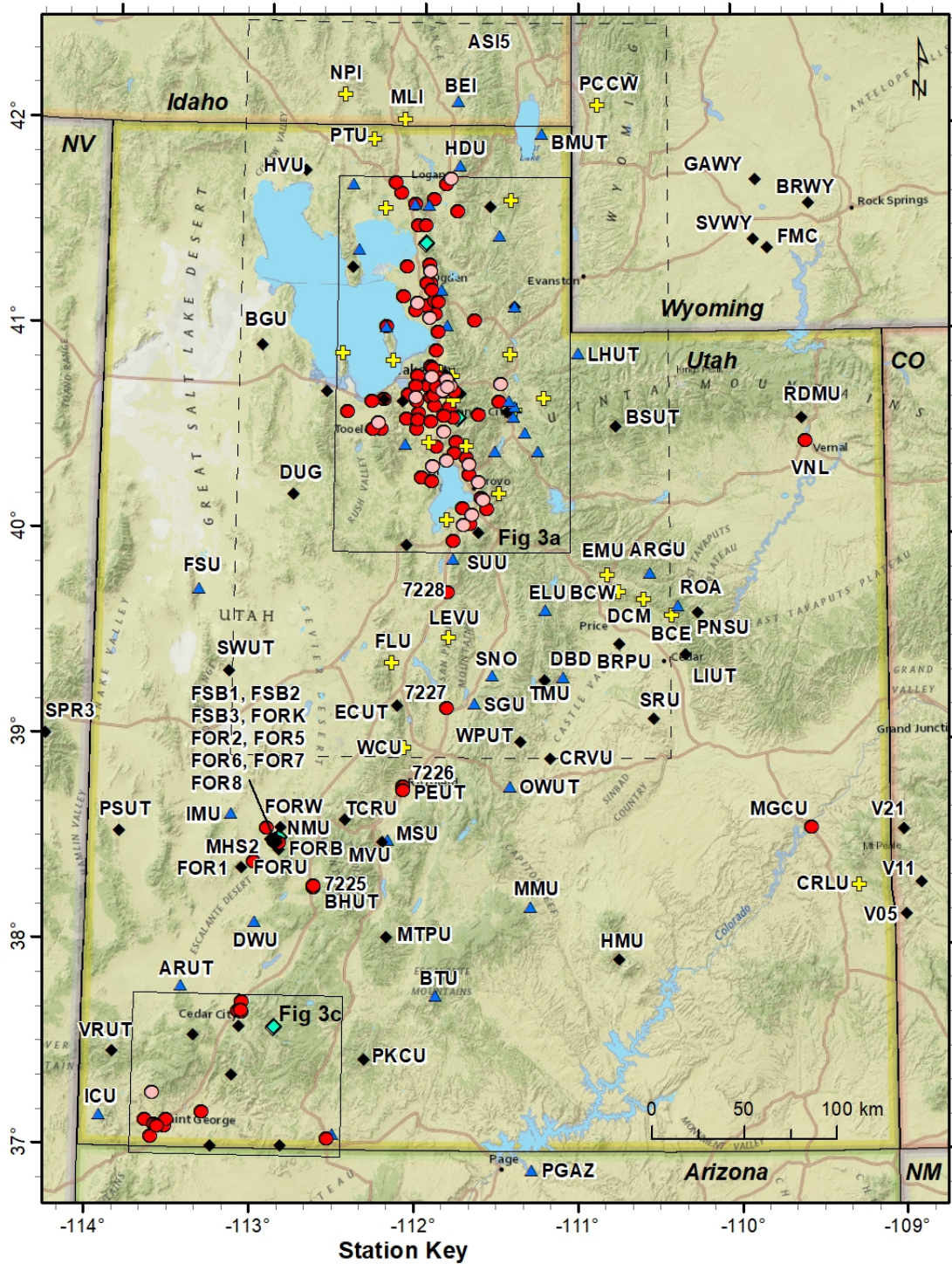
† Times are listed both as Local Time—Mountain Standard Time (MST) or Mountain Daylight Time (MDT)—and as Universal Coordinated Time (UTC).

‡ *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<sub>w</sub>), Richter local magnitude (M<sub>L</sub>), and coda magnitude (M<sub>c</sub>) determined by UUSS. If labeled “NEIC,” data are from the National Earthquake Information Center of the USGS.



# Utah Regional/Urban Seismic Network December 31, 2021



- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>▲ Single-component, Analog-telemetry, Short-period</li> <li>◆ Multi-component, Analog-telemetry, Short-period</li> <li>◆ Multi-component, Digital-telemetry, Broadband</li> <li>● Multi-component, Digital-telemetry, Strong Motion</li> </ul> | <p><b>Bounds of map correspond to standard "Utah Region"</b></p> <ul style="list-style-type: none"> <li>┌ ─ ─ ─ ┐ Traditional "Wasatch Front Area"</li> <li>⊕ Multi-comp Strong-Motion, Vertical Short-Period Digital and/or Analog-telemetry</li> <li>○ NetQuakes</li> </ul> |
|---|---|

**Figure 2**

# Utah Urban Seismic Network (December 31, 2021)

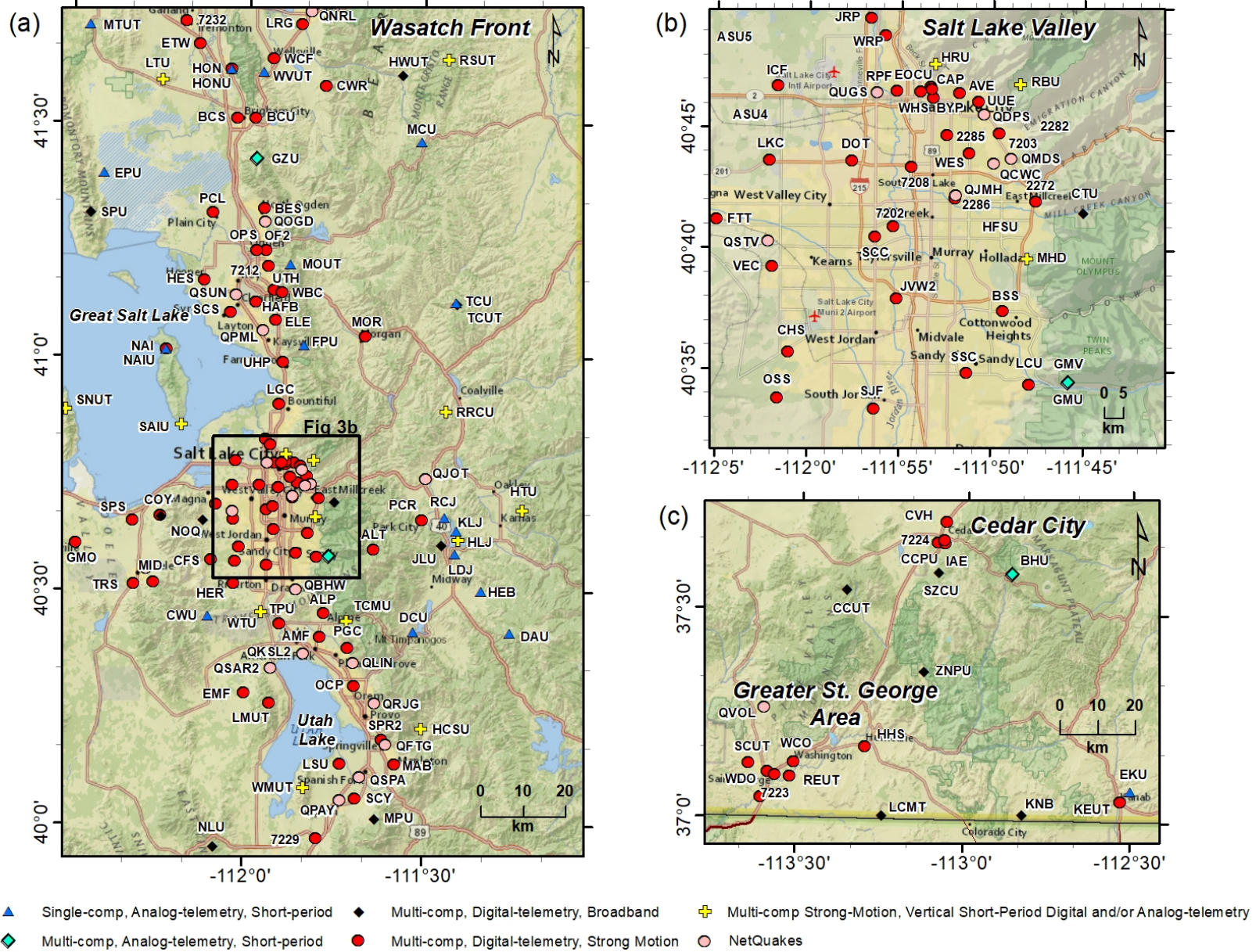


Figure 3

**Table 2. Earthquakes in the Utah Region: October 1–December 31, 2021**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211001	00:17:26.10	39° 25.52'	110° 17.67'	-2.8	1.7	8	200	3	0.11
211001	06:05:49.89	39° 25.77'	110° 18.65'	-1.6	1.4W	11	194	1	0.13
211001	07:23:53.27	39° 25.61'	110° 18.24'	-1.8	1.6	7	197	2	0.13
211001	12:00:50.72	37° 49.94'	113° 00.27'	1.8*	1.0	13	140	27	0.27
211001	15:22:40.29	38° 29.27'	112° 50.67'	0.2	-0.7	11	210	3	0.07
211001	23:57:08.10	38° 29.22'	112° 50.91'	-0.1	-0.9	11	202	2	0.04
211002	00:00:31.76	38° 29.47'	112° 50.45'	0.1	-0.8	11	214	3	0.05
211002	19:25:12.29	40° 57.69'	110° 15.13'	5.7*	1.5	18	87	63	0.17
211002	23:33:57.01	39° 25.77'	110° 18.28'	-1.6	1.5	9	197	2	0.09
211003	07:08:53.10	39° 25.72'	110° 18.71'	-1.4	1.5	8	194	1	0.13
211003	13:44:08.00	39° 25.73'	110° 18.92'	-1.1	0.8	5	193	1	0.03
211004	02:35:03.94	38° 29.09'	112° 49.94'	-0.1	-0.3	12	233	4	0.32
211004	02:35:09.30	38° 28.67'	112° 51.81'	-0.2	-0.8	7	159	2	0.08
211004	07:46:13.15	38° 34.56'	112° 34.22'	3.0*	1.0	9	161	11	0.05
211004	09:21:51.92	38° 34.09'	112° 34.16'	2.4*	0.9W	8	155	12	0.06
211004	09:35:10.80	38° 36.06'	112° 35.06'	0.4*	1.3W	12	144	12	0.08
211004	11:08:18.06	38° 34.12'	112° 34.14'	3.0*	0.8	12	155	12	0.05
211004	15:01:25.59	39° 25.53'	110° 18.09'	-1.7	1.4W	8	197	2	0.09
211004	20:16:08.13	39° 25.89'	110° 18.50'	-1.7	2.0W	14	180	2	0.17
211004	21:03:25.23	42° 21.43'	111° 34.76'	4.5*	1.5	7	162	32	0.04
211004	22:27:13.99	39° 25.21'	110° 16.63'	-3.4	1.6	6	206	4	0.17
211005	04:19:41.99	38° 15.14'	112° 21.87'	8.4*	0.9	12	116	24	0.23
211005	06:46:43.65	39° 25.55'	110° 18.35'	-1.5	1.5	8	197	2	0.13
211005	12:30:53.13	39° 25.92'	110° 19.42'	-1.1	1.3	6	171	1	0.02
211005	14:22:27.07	39° 25.35'	110° 17.63'	-2.8	1.4	6	200	3	0.09
211005	16:10:03.56	39° 25.44'	110° 18.46'	-1.4	1.5W	10	196	2	0.10
211005	16:27:40.50	39° 25.56'	110° 17.76'	-2.2	1.4W	10	185	3	0.12
211005	17:47:09.54	39° 25.53'	110° 17.76'	-2.5	1.7	8	200	3	0.14
211005	18:30:49.13	39° 25.69'	110° 18.43'	-1.6	1.7W	10	196	2	0.13
211005	19:31:28.63	39° 25.24'	110° 17.18'	-3.5	1.6	5	203	3	0.10
211005	19:42:18.52	39° 25.57'	110° 18.06'	-1.9	1.4	5	198	2	0.09
211005	19:49:23.98	39° 25.20'	110° 16.80'	-3.4	1.7	6	205	4	0.15
211005	21:26:21.90	39° 25.56'	110° 18.16'	-1.6	1.2	5	197	2	0.06
211005	21:41:14.54	39° 25.52'	110° 18.46'	-1.5	1.3W	6	196	2	0.14
211005	21:49:49.18	41° 55.41'	112° 40.41'	1.8*	1.5	15	214	28	0.16
211005	23:41:20.36	36° 52.21'	113° 28.33'	19.2	1.5	8	215	23	0.06
211006	00:11:49.46	39° 25.59'	110° 18.32'	-1.7	1.8	9	197	2	0.12
211006	00:40:39.12	39° 25.47'	110° 18.21'	-1.6	1.5W	9	197	2	0.12
211006	00:53:33.89	39° 25.15'	110° 16.59'	-3.4	1.5	6	207	4	0.20
211006	01:27:47.20	39° 25.32'	110° 17.17'	-3.3	1.8	8	203	3	0.11
211006	02:46:03.40	39° 25.57'	110° 18.32'	-1.8	1.9	7	197	2	0.13
211006	03:31:19.80	39° 25.60'	110° 18.40'	-1.6	1.5W	8	196	2	0.13
211006	03:36:26.69	39° 25.54'	110° 18.32'	-1.6	1.5	6	197	2	0.08
211006	03:52:50.56	39° 25.54'	110° 18.16'	-2.0	1.8	8	197	2	0.12

**Table 2. Earthquakes in the Utah Region: October 1–December 31, 2021**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211006	04:35:07.68	39° 25.63'	110° 18.31'	-1.8	1.7	8	197	2	0.13
211006	05:11:35.03	39° 45.49'	111° 02.43'	2.6*	1.4	8	284	20	0.24
211006	06:42:33.30	39° 25.58'	110° 18.40'	-1.4	1.6	10	196	2	0.09
211006	09:41:47.69	39° 25.79'	110° 18.76'	-1.2	1.4	9	194	1	0.06
211006	12:38:32.67	38° 19.81'	112° 17.45'	3.1*	1.4W	15	131	20	0.15
211007	11:06:31.48	39° 25.52'	110° 17.71'	-2.6	1.5	8	200	3	0.12
211007	11:49:36.93	38° 36.52'	112° 38.30'	0.7*	0.8	13	144	17	0.10
211007	14:48:43.12	39° 25.46'	110° 18.05'	-2.0	1.8	8	199	2	0.11
211007	14:54:12.63	40° 44.19'	112° 03.33'	4.5	0.5	11	127	6	0.09
211007	15:05:04.52	39° 25.45'	110° 18.05'	-2.2	1.6W	15	199	2	0.14
211007	15:28:10.00	39° 25.42'	110° 17.90'	-2.0	1.6	8	199	2	0.12
211007	16:32:44.85	39° 25.42'	110° 17.68'	-2.6	1.5	7	200	3	0.11
211007	17:56:00.83	39° 25.72'	110° 18.90'	-1.0	1.7	12	193	1	0.05
211007	18:06:02.29	39° 25.50'	110° 18.05'	-2.0	1.7	11	198	2	0.12
211007	19:03:27.39	39° 25.36'	110° 17.58'	-3.0	1.6W	11	200	3	0.14
211007	19:15:07.53	39° 25.41'	110° 18.51'	-1.3	1.4W	8	196	1	0.12
211007	19:29:23.07	41° 55.15'	112° 40.98'	14.4	1.0	7	181	17	0.07
211007	20:55:20.72	39° 25.42'	110° 18.35'	-1.6	1.7	8	197	2	0.13
211007	21:15:11.45	38° 28.95'	112° 50.57'	-0.4	-0.5	7	221	3	0.03
211007	23:21:11.74	40° 43.88'	112° 03.71'	4.8	1.1	14	87	2	0.15
211007	23:58:07.85	39° 25.73'	110° 18.73'	-1.2	1.2	7	194	1	0.08
211008	00:47:12.65	39° 25.69'	110° 18.49'	-1.6	1.5W	9	195	2	0.15
211008	00:50:44.08	39° 25.42'	110° 18.42'	-1.5	1.5W	8	196	2	0.13
211008	01:13:05.63	39° 25.71'	110° 18.54'	-1.5	1.7	8	195	1	0.14
211008	01:32:50.92	39° 25.70'	110° 18.72'	-1.2	1.3	5	194	1	0.04
211008	01:46:17.57	38° 14.61'	112° 37.89'	4.9	0.8	10	224	4	0.07
211008	02:18:43.02	39° 25.74'	110° 18.65'	-1.4	1.1	6	194	1	0.04
211008	03:01:16.66	39° 25.35'	110° 17.67'	-2.6	1.5W	8	200	3	0.11
211008	04:48:09.10	39° 25.44'	110° 17.88'	-2.1	1.6	9	199	2	0.11
211008	05:32:53.20	39° 25.48'	110° 17.90'	-2.0	1.4W	10	199	2	0.10
211008	10:22:07.27	39° 42.20'	110° 43.27'	-3.3	1.1	7	143	4	0.07
211008	14:18:26.02	39° 25.30'	110° 17.38'	-3.5	1.8	11	202	3	0.12
211008	16:23:33.51	39° 26.00'	110° 18.34'	-1.6	1.5	5	219	2	0.08
211009	20:30:51.73	38° 15.63'	112° 37.26'	6.1	1.2	13	113	2	0.05
211010	07:25:40.28	39° 25.39'	110° 17.38'	-3.5	1.4	8	202	3	0.11
211011	01:26:57.60	37° 02.92'	112° 51.18'	7.8	1.7W	7	148	5	0.06
211011	02:09:44.14	38° 10.64'	112° 30.35'	10.8	1.5W	10	131	16	0.07
211011	06:06:53.59	39° 41.87'	110° 36.65'	-2.3	1.0	8	83	2	0.03
211011	15:07:10.71	39° 25.47'	110° 17.64'	-2.8	1.5W	10	200	3	0.12
211011	15:48:43.44	39° 25.07'	110° 19.92'	-0.5	1.0	5	166	1	0.01
211011	21:46:09.33	39° 25.50'	110° 18.36'	-1.5	1.9	8	197	2	0.11
211011	21:51:39.82	39° 25.78'	110° 18.78'	-1.3	1.8	7	194	1	0.08
211011	23:35:11.82	39° 25.32'	110° 17.84'	-3.1	1.2	6	200	2	0.13
211011	23:57:04.91	39° 25.75'	110° 18.68'	-1.4	1.5	6	194	1	0.06

**Table 2. Earthquakes in the Utah Region: October 1–December 31, 2021**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211011	23:58:33.95	39° 25.50'	110° 18.67'	-1.3	1.8	7	194	1	0.14
211012	00:06:52.12	39° 25.42'	110° 18.28'	-1.6	1.8	11	197	2	0.12
211012	00:14:10.46	39° 25.55'	110° 18.18'	-1.9	1.8	7	197	2	0.13
211012	00:45:57.52	39° 25.72'	110° 18.72'	-1.3	1.6	7	194	1	0.07
211012	01:57:53.79	39° 25.98'	110° 19.28'	-1.3	1.3	5	183	1	0.02
211012	02:27:35.25	39° 25.73'	110° 18.69'	-1.5	1.7	8	194	1	0.13
211012	02:40:52.26	39° 25.75'	110° 18.95'	-1.1	1.6	11	192	1	0.05
211012	06:35:34.96	39° 25.65'	110° 18.55'	-1.4	1.8	11	195	1	0.09
211012	10:13:32.17	40° 43.70'	112° 01.21'	8.9	0.4	15	101	1	0.09
211012	14:10:58.24	38° 14.33'	112° 20.84'	9.6*	1.6W	16	84	32	0.23
211012	17:44:17.88	40° 44.07'	112° 04.11'	5.6	0.5	9	111	6	0.05
211012	22:10:09.10	38° 02.56'	113° 05.69'	12.1	1.0	11	129	11	0.13
211013	05:54:42.49	39° 25.34'	110° 18.32'	-1.5	1.9	8	197	2	0.12
211013	06:02:22.67	39° 25.41'	110° 18.31'	-1.5	1.5W	7	197	2	0.12
211013	13:10:39.97	37° 05.29'	113° 20.99'	17.6	1.5	9	100	13	0.06
211013	16:33:07.88	39° 25.74'	110° 18.63'	-1.6	1.6W	11	194	1	0.13
211013	17:44:48.04	38° 44.85'	112° 09.58'	8.0	1.4W	22	112	7	0.19
211013	17:50:34.37	38° 44.42'	112° 08.99'	2.1*	1.3	18	97	25	0.18
211013	17:50:45.56	38° 44.14'	112° 08.45'	6.2	1.8W	16	95	6	0.22
211013	18:02:47.13	39° 25.60'	110° 18.65'	-1.5	2.0	14	194	1	0.16
211013	18:38:59.95	39° 25.43'	110° 17.91'	-2.4	1.6	8	199	2	0.11
211013	20:05:19.90	39° 25.58'	110° 18.66'	-1.4	1.6	11	194	1	0.12
211013	20:29:04.89	39° 25.93'	110° 19.60'	-1.0	1.3	7	154	1	0.03
211013	21:11:55.02	42° 01.82'	112° 33.41'	1.0*	0.4	7	159	13	0.06
211013	21:40:59.66	42° 02.02'	112° 33.30'	4.7*	1.0	12	160	13	0.15
211013	21:51:00.16	42° 02.07'	112° 33.17'	5.0*	0.9	14	158	13	0.09
211013	23:10:08.23	39° 25.73'	110° 18.51'	-1.7	1.8W	15	195	2	0.14
211013	23:26:55.30	39° 25.26'	110° 17.67'	-3.1	1.2	8	200	3	0.10
211013	23:28:43.72	39° 25.30'	110° 17.84'	-2.1	1.8	7	200	2	0.08
211014	01:05:20.31	40° 46.51'	112° 02.53'	1.8	0.3	11	126	1	0.15
211014	01:24:11.18	39° 25.62'	110° 18.57'	-1.3	1.7	11	195	1	0.10
211014	01:59:07.45	39° 25.41'	110° 18.22'	-1.7	1.8	11	197	2	0.13
211014	02:08:15.80	39° 25.39'	110° 17.97'	-2.0	1.6	9	199	2	0.11
211014	03:02:06.57	39° 25.61'	110° 18.40'	-1.5	1.5	8	196	2	0.07
211014	03:17:13.44	39° 25.63'	110° 18.65'	-1.3	1.7	10	194	1	0.08
211014	03:48:47.93	39° 25.36'	110° 17.68'	-2.3	1.7	8	200	3	0.11
211014	04:07:23.18	39° 25.03'	110° 17.97'	-1.7	1.6	8	199	2	0.14
211014	04:53:31.04	39° 25.36'	110° 18.51'	-1.3	1.7	10	196	1	0.12
211014	05:39:53.77	39° 25.35'	110° 18.07'	-1.8	1.7	8	199	2	0.11
211014	07:17:23.52	42° 01.95'	112° 33.86'	4.9*	1.0	12	164	13	0.10
211014	08:06:52.53	42° 01.68'	112° 33.77'	1.8*	1.0	6	162	14	0.05
211014	08:40:35.36	42° 02.36'	112° 32.60'	1.1*	0.8	9	155	12	0.15
211014	16:23:37.87	39° 25.81'	110° 19.08'	-1.1	1.4	7	192	1	0.02
211014	16:41:24.19	39° 25.38'	110° 18.07'	-1.8	1.6	9	199	2	0.12

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211014	17:04:51.31	39° 25.58'	110° 18.68'	-1.2	1.7W	10	194	1	0.08
211014	18:08:01.39	39° 25.45'	110° 18.39'	-1.6	2.0W	16	181	2	0.14
211014	18:16:43.50	39° 25.33'	110° 18.21'	-1.8	1.9	10	197	2	0.12
211014	19:14:13.16	39° 25.52'	110° 17.99'	-2.0	2.0	11	199	2	0.13
211014	19:43:40.50	39° 25.77'	110° 19.03'	-1.1	1.8	8	192	1	0.04
211014	20:38:43.65	39° 25.80'	110° 18.46'	-1.7	1.5W	9	195	2	0.09
211014	21:30:36.31	39° 25.88'	110° 19.08'	-1.2	2.0	6	192	1	0.01
211014	21:33:47.29	39° 25.73'	110° 18.83'	-1.2	1.8	7	194	1	0.03
211014	23:37:05.14	39° 25.48'	110° 18.05'	-2.0	1.9	11	198	2	0.17
211015	00:46:18.85	39° 25.85'	110° 19.28'	-1.1	1.6	10	188	1	0.05
211015	01:08:22.91	39° 25.82'	110° 19.04'	-1.2	2.0	10	192	1	0.06
211015	02:16:11.50	42° 02.10'	112° 33.52'	5.2*	0.8	13	161	13	0.15
211015	02:21:50.94	42° 02.03'	112° 33.71'	5.5*	1.3	20	162	13	0.11
211015	02:24:52.96	39° 26.29'	110° 19.41'	-2.2	1.9	6	169	2	0.03
211015	02:26:26.56	42° 02.47'	112° 31.88'	1.4*	0.7	8	190	12	0.11
211015	03:15:00.14	39° 25.25'	110° 17.99'	-2.1	1.2	6	199	2	0.07
211015	03:41:41.13	40° 44.54'	112° 05.92'	8.9	0.1	13	62	6	0.17
211015	04:56:54.45	39° 25.69'	110° 18.83'	-1.2	1.9	12	194	1	0.09
211015	10:49:30.70	41° 58.06'	112° 36.79'	1.8*	0.9	11	168	21	0.19
211015	11:25:15.93	39° 25.69'	110° 18.12'	-2.2	1.6	10	197	2	0.10
211015	15:35:12.17	39° 25.61'	110° 18.51'	-1.3	1.6	8	195	1	0.08
211015	16:57:51.69	40° 43.35'	112° 05.74'	11.3	0.8	17	100	4	0.13
211015	20:52:19.28	40° 44.26'	112° 04.00'	5.2	0.8	12	103	3	0.10
211015	22:15:47.24	39° 25.49'	110° 17.86'	-2.4	1.2	8	199	2	0.11
211015	22:43:42.29	39° 25.48'	110° 18.48'	-1.5	1.9	9	196	1	0.13
211016	01:24:01.61	39° 25.49'	110° 18.72'	-1.2	1.8	9	194	1	0.12
211016	02:26:07.91	39° 25.54'	110° 18.48'	-1.5	1.7	8	196	1	0.13
211016	02:54:46.77	39° 25.52'	110° 18.45'	-1.4	1.6	7	196	2	0.13
211016	04:13:11.01	39° 25.41'	110° 17.31'	-3.4	1.9	7	202	3	0.13
211016	20:45:58.45	37° 09.87'	113° 36.69'	14.6	1.2	18	90	7	0.17
211016	21:49:11.81	38° 34.53'	112° 33.96'	2.5*	0.9	13	160	11	0.11
211017	03:37:16.33	39° 25.52'	110° 18.67'	-1.2	1.6	9	194	1	0.12
211017	08:09:21.38	41° 22.78'	113° 17.58'	9.2*	1.9W	19	234	56	0.14
211017	09:48:16.56	39° 25.95'	110° 19.08'	-1.6	1.6W	18	114	1	0.16
211017	12:18:23.92	39° 41.58'	111° 59.33'	6.4*	1.3	11	75	14	0.31
211017	22:13:08.42	40° 26.79'	110° 55.14'	4.7*	1.3	20	102	17	0.20
211018	08:42:58.35	39° 25.81'	110° 18.78'	-1.2	1.5	7	194	1	0.07
211018	09:55:56.75	36° 59.66'	113° 45.49'	12.9	1.5W	10	178	15	0.21
211018	15:08:21.27	39° 25.73'	110° 19.09'	-1.1	1.2	5	192	1	0.01
211018	16:00:36.05	39° 25.54'	110° 18.90'	-1.0	1.3	6	194	1	0.05
211018	16:03:57.84	39° 26.27'	110° 19.21'	-2.2	1.4	7	180	2	0.05
211018	16:30:11.22	39° 25.51'	110° 18.46'	-1.6	1.8W	15	196	2	0.16
211018	17:10:40.86	39° 25.42'	110° 17.97'	-2.0	1.4W	8	199	2	0.11
211018	17:23:21.49	39° 25.00'	110° 18.26'	-1.1	1.0	7	198	2	0.05

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211018	18:37:42.60	39° 25.54'	110° 18.36'	-1.4	1.9	8	196	2	0.09
211018	19:27:55.59	39° 25.86'	110° 19.18'	-1.4	1.8	8	191	1	0.04
211018	19:56:40.95	39° 26.31'	110° 20.23'	-3.4	1.0	7	151	2	0.05
211018	20:10:34.01	39° 26.06'	110° 20.39'	-2.0	1.6	7	111	2	0.04
211018	20:25:14.06	39° 25.86'	110° 19.08'	-1.2	2.0	9	192	1	0.06
211018	23:08:33.47	39° 25.66'	110° 18.25'	-1.6	1.4	5	197	2	0.06
211019	01:21:30.16	39° 25.63'	110° 18.17'	-2.0	1.4W	10	197	2	0.13
211019	03:03:34.40	39° 25.69'	110° 18.78'	-1.1	1.6	6	194	1	0.05
211019	03:22:38.01	39° 25.71'	110° 17.86'	-2.2	1.7	7	199	2	0.09
211019	03:35:57.18	39° 25.64'	110° 18.84'	-1.2	1.4	5	194	1	0.01
211019	05:49:32.81	41° 59.62'	112° 07.56'	8.0	1.2	23	62	4	0.14
211019	06:34:58.09	39° 25.72'	110° 18.46'	-1.5	1.2	6	195	2	0.07
211019	07:33:09.80	36° 58.89'	112° 28.99'	22.7	1.3	7	202	30	0.07
211019	15:53:49.71	39° 25.47'	110° 18.33'	-1.6	1.8	7	197	2	0.12
211019	16:56:51.76	39° 25.52'	110° 17.86'	-2.5	1.8	8	199	2	0.09
211019	17:41:52.09	39° 25.26'	110° 17.77'	-2.5	1.4W	6	200	3	0.12
211019	20:02:46.66	39° 25.88'	110° 19.09'	-1.2	1.6	7	192	1	0.03
211019	23:00:47.74	36° 49.85'	113° 39.95'	15.1*	1.4	10	218	42	0.04
211020	14:18:54.56	39° 25.55'	110° 18.38'	-1.6	1.6W	11	196	2	0.13
211020	16:02:13.29	39° 25.61'	110° 18.04'	-1.8	1.3	9	198	2	0.10
211020	16:47:20.20	39° 25.47'	110° 17.94'	-2.3	1.7	9	199	2	0.12
211020	16:57:28.70	39° 25.69'	110° 18.57'	-1.5	1.7	10	195	1	0.09
211020	17:54:19.10	39° 25.71'	110° 18.11'	-2.0	1.3	8	197	2	0.07
211020	17:54:54.12	39° 25.62'	110° 18.33'	-1.7	1.6	9	197	2	0.07
211020	19:10:08.01	39° 25.38'	110° 18.14'	-1.9	1.8W	10	197	2	0.14
211020	20:59:35.59	39° 25.70'	110° 18.53'	-1.4	1.4	5	195	1	0.02
211020	23:03:10.52	38° 31.20'	112° 14.45'	0.9	1.6W	14	110	3	0.13
211020	23:26:28.14	39° 25.68'	110° 18.24'	-2.0	1.9W	13	197	2	0.16
211021	00:38:36.89	39° 10.75'	112° 01.53'	14.0	1.5	10	83	9	0.18
211021	01:44:00.08	39° 25.43'	110° 18.24'	-1.6	1.6	8	197	2	0.12
211021	01:53:55.45	39° 25.39'	111° 57.29'	-0.5*	2.3W	21	62	15	0.21
211021	01:58:38.65	36° 58.05'	113° 46.81'	13.9	1.0	8	215	24	0.07
211021	02:22:38.76	39° 25.45'	110° 18.03'	-2.0	1.5W	8	199	2	0.12
211021	02:49:27.66	41° 53.51'	111° 54.37'	2.7*	1.4W	20	72	15	0.11
211021	03:02:31.28	39° 25.65'	110° 18.01'	-2.0	1.4W	11	169	2	0.16
211021	03:14:26.39	39° 25.44'	110° 17.90'	-2.2	1.5W	12	199	2	0.12
211021	03:31:17.38	39° 25.73'	110° 19.07'	-1.1	1.4	8	192	1	0.04
211021	05:51:02.74	39° 25.45'	110° 17.46'	-3.5	1.7W	12	202	3	0.16
211021	07:38:03.35	39° 25.35'	110° 17.55'	-3.0	1.5	7	201	3	0.11
211021	11:54:37.36	39° 25.61'	110° 18.50'	-1.4	2.0	10	196	1	0.14
211021	15:56:38.23	39° 25.52'	110° 18.50'	-1.5	1.9	8	196	1	0.13
211021	17:11:59.91	39° 25.36'	110° 17.85'	-2.3	1.6	7	199	2	0.12
211021	19:10:31.45	39° 25.75'	110° 18.25'	-1.9	2.1W	19	168	2	0.14
211021	19:28:15.74	39° 25.57'	110° 18.49'	-1.5	1.6	8	196	1	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211021	19:35:25.60	39° 25.50'	110° 18.19'	-1.9	1.7	8	197	2	0.13
211021	23:57:11.47	39° 25.69'	110° 18.56'	-1.6	1.9	8	195	1	0.14
211022	01:27:09.19	39° 25.66'	110° 18.49'	-1.7	1.8	9	195	2	0.14
211022	05:43:01.73	39° 25.37'	110° 17.28'	-3.5	1.7W	15	110	3	0.18
211022	11:29:38.78	39° 26.08'	111° 57.63'	7.1*	3.2W	25	68	15	0.20
211022	15:24:36.96	39° 25.69'	111° 57.42'	4.2*	2.1W	19	58	15	0.15
211022	17:51:59.60	39° 25.47'	110° 18.50'	-1.5	1.8	6	219	1	0.13
211022	18:06:33.76	39° 25.57'	110° 17.17'	-3.4	1.7	6	225	3	0.09
211022	18:37:50.07	39° 27.82'	111° 59.13'	0.5*	1.4	8	139	15	0.24
211022	18:38:04.75	39° 26.62'	111° 57.88'	4.3*	1.7	6	173	15	0.06
211023	00:38:51.94	39° 29.83'	111° 55.23'	13.4	1.7W	19	77	9	0.18
211023	04:55:59.95	41° 56.40'	112° 17.70'	6.2	0.9	11	93	3	0.13
211023	07:31:33.04	37° 50.94'	113° 05.27'	6.8*	1.5	14	150	28	0.24
211023	08:56:43.61	37° 56.35'	113° 31.52'	7.8*	2.0W	14	66	18	0.14
211023	12:28:52.29	37° 56.31'	113° 32.23'	0.0*	1.5	13	82	19	0.20
211023	12:35:53.93	39° 25.82'	110° 18.96'	-1.2	1.6	7	192	1	0.06
211023	13:31:19.31	38° 39.09'	111° 48.58'	7.3*	2.4W	27	63	28	0.26
211023	19:00:13.74	37° 27.43'	114° 03.86'	10.0	1.2	10	107	18	0.05
211023	20:35:05.74	38° 32.22'	112° 29.21'	9.6	1.4W	11	126	9	0.06
211024	00:06:12.70	37° 09.24'	113° 32.24'	16.4	1.0	13	74	4	0.08
211024	07:07:52.03	38° 14.08'	112° 41.20'	7.1	3.3W	31	60	6	0.20
211024	16:49:31.01	40° 13.35'	113° 48.98'	11.4*	2.0	11	115	66	0.19
211024	22:04:58.63	38° 10.19'	112° 37.54'	8.9	2.0W	24	68	12	0.17
211025	02:28:01.32	37° 28.09'	114° 10.76'	11.8*	1.6	14	119	29	0.17
211025	04:31:42.49	39° 25.90'	111° 56.71'	4.1*	1.9W	12	64	14	0.19
211025	11:32:01.76	39° 25.64'	111° 56.68'	5.0*	2.4W	18	64	14	0.15
211025	15:54:49.50	39° 25.66'	110° 18.78'	-1.1	1.3	5	194	1	0.02
211025	16:59:26.80	39° 25.50'	110° 18.31'	-1.6	2.0	7	197	2	0.06
211025	17:52:47.64	38° 13.81'	112° 41.47'	0.6	3.0W	29	66	7	0.13
211025	18:04:35.83	39° 25.77'	110° 18.79'	-1.6	1.5	5	194	1	0.01
211025	18:27:18.95	39° 25.66'	110° 18.79'	-1.3	2.3	7	194	1	0.04
211025	19:20:40.91	39° 25.72'	110° 19.34'	-1.0	1.4	5	191	1	0.01
211025	19:22:42.87	39° 25.77'	110° 18.30'	-1.8	1.9	6	196	2	0.08
211025	20:07:24.89	39° 25.84'	110° 19.26'	-1.2	1.6	7	191	1	0.02
211025	23:47:52.12	39° 25.67'	110° 18.78'	-1.3	1.7	5	194	1	0.03
211026	00:56:28.85	39° 25.75'	110° 19.23'	-1.1	1.4	5	191	1	0.01
211026	02:04:13.94	39° 25.71'	110° 19.02'	-1.2	1.2	5	192	1	0.03
211026	02:06:35.18	39° 25.72'	110° 18.74'	-1.4	2.0	6	194	1	0.06
211026	02:56:37.95	39° 25.86'	110° 19.61'	-1.2	1.4	5	152	1	0.01
211026	03:16:30.06	39° 25.90'	110° 19.34'	-1.6	1.9	5	181	1	0.00
211026	16:59:09.82	39° 25.72'	110° 19.11'	-1.1	2.0	5	192	1	0.01
211026	18:25:48.77	39° 25.33'	110° 18.31'	-1.5	1.9	8	197	2	0.09
211026	20:10:49.22	39° 25.64'	110° 18.95'	-1.1	1.9	5	193	1	0.03
211026	21:32:54.82	39° 25.33'	110° 17.92'	-2.2	2.1	7	199	2	0.12
211026	22:30:54.94	38° 28.98'	112° 50.49'	-0.4	-0.2	17	109	1	0.07



**Table 2. Earthquakes in the Utah Region: October 1–December 31, 2021**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211026	22:33:54.21	38° 28.96'	112° 50.54'	-0.4	0.8	16	108	3	0.06
211026	22:37:43.13	38° 29.08'	112° 50.32'	-0.4	-0.8	10	230	3	0.20
211026	22:37:46.08	38° 28.93'	112° 50.37'	0.2	-0.8	10	230	3	0.07
211026	22:37:55.58	38° 28.87'	112° 51.11'	-0.9	-0.9	10	197	2	0.09
211026	22:38:20.43	38° 28.94'	112° 50.53'	-0.4	-0.3	9	219	3	0.04
211026	22:38:29.76	38° 28.75'	112° 51.29'	-0.2	-0.1	7	236	2	0.04
211026	22:38:33.14	38° 28.85'	112° 50.86'	0.2	-0.1	10	208	3	0.12
211026	22:39:43.25	38° 28.96'	112° 50.56'	-0.3	-0.3	16	108	1	0.09
211026	22:39:47.77	38° 28.92'	112° 50.71'	-0.3	-0.1	19	106	1	0.07
211026	22:49:33.42	38° 28.72'	112° 49.84'	0.2	-0.4	11	160	3	0.05
211026	22:50:17.96	38° 28.58'	112° 50.56'	0.1	-0.4	11	197	3	0.05
211026	23:50:22.39	38° 28.93'	112° 50.64'	-0.4	0.0	16	107	1	0.04
211027	00:14:45.14	38° 28.90'	112° 50.68'	0.1	-0.1	13	107	3	0.10
211027	00:15:58.97	38° 28.86'	112° 50.72'	0.1	0.3	14	107	3	0.05
211027	00:44:14.46	39° 25.32'	110° 17.85'	-2.4	1.6	6	199	2	0.10
211027	01:23:46.15	38° 28.84'	112° 50.53'	0.0	0.8	16	110	2	0.06
211027	01:28:01.90	38° 28.86'	112° 50.56'	0.0	0.5	16	110	1	0.07
211027	01:32:54.12	38° 28.87'	112° 50.57'	0.2	0.0	11	110	3	0.06
211027	01:35:59.74	38° 28.82'	112° 50.65'	-0.2	1.2	15	126	1	0.10
211027	01:42:52.91	38° 28.82'	112° 50.58'	0.8	-0.2	11	111	3	0.06
211027	03:13:19.80	39° 25.42'	110° 18.26'	-1.7	2.0	10	197	2	0.16
211027	05:38:50.11	39° 25.50'	110° 18.68'	-1.3	2.0	7	194	1	0.12
211027	06:36:15.94	39° 25.66'	110° 18.42'	-1.8	2.1	10	196	2	0.14
211027	15:01:33.27	39° 25.59'	110° 17.64'	-2.2	1.9	7	223	3	0.07
211027	16:07:18.04	39° 25.58'	110° 18.60'	-1.4	2.2	7	195	1	0.09
211027	18:43:13.19	37° 23.85'	114° 02.08'	12.0	1.4	7	154	17	0.01
211027	20:08:13.66	39° 25.59'	110° 18.59'	-1.3	1.5	6	195	1	0.02
211027	21:22:24.65	39° 25.21'	110° 17.28'	-3.3	2.2	10	203	3	0.12
211027	21:25:33.32	39° 25.71'	110° 18.68'	-1.5	1.7W	9	194	1	0.10
211027	22:12:29.24	39° 25.61'	110° 18.36'	-1.6	1.6	6	196	2	0.09
211028	01:30:40.39	39° 25.65'	110° 18.02'	-2.3	1.8	11	198	2	0.13
211028	05:32:35.84	39° 25.36'	110° 18.38'	-1.6	2.2	7	197	2	0.12
211028	06:16:33.00	39° 25.67'	110° 18.81'	-1.2	1.8	6	194	1	0.04
211028	15:16:55.72	39° 25.39'	110° 18.13'	-2.0	1.9W	12	182	2	0.12
211028	17:11:45.37	39° 25.43'	110° 17.49'	-2.8	1.6	6	202	3	0.09
211028	18:04:40.63	37° 30.00'	113° 27.96'	4.6*	1.2W	15	105	11	0.09
211028	18:29:25.87	39° 25.43'	110° 18.62'	-1.3	1.5	7	196	1	0.08
211028	20:49:35.37	39° 25.48'	110° 18.75'	-1.4	2.0	8	194	1	0.11
211028	21:21:27.58	39° 25.75'	110° 19.42'	-1.1	1.4	6	178	1	0.03
211028	23:44:15.03	39° 25.48'	110° 18.00'	-2.1	2.0	10	199	2	0.15
211029	00:03:18.42	39° 25.27'	110° 17.66'	-2.7	1.7	7	200	3	0.12
211029	00:03:55.83	39° 25.29'	110° 17.97'	-2.0	1.9	7	199	2	0.11
211029	00:14:52.81	39° 25.45'	110° 18.46'	-1.6	1.5W	10	196	2	0.13
211029	01:02:57.86	40° 44.13'	111° 29.11'	14.7	1.7W	30	93	9	0.14

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211029	03:22:54.07	39° 25.68'	110° 18.23'	-2.1	1.8W	13	182	2	0.16
211029	05:42:28.39	39° 25.72'	110° 18.56'	-1.7	1.6W	9	195	1	0.14
211029	07:28:32.19	39° 25.71'	110° 18.97'	-1.1	1.6	10	178	1	0.04
211029	08:29:54.48	41° 51.09'	112° 44.21'	9.1	1.0	13	186	9	0.16
211029	08:55:12.56	38° 55.92'	111° 39.74'	21.7	1.4	14	114	27	0.11
211029	09:40:53.86	39° 25.20'	110° 16.65'	-3.3	1.5	7	206	4	0.16
211029	15:06:41.62	39° 25.42'	110° 18.44'	-1.5	1.8	7	196	2	0.13
211029	16:09:50.14	39° 25.71'	110° 18.69'	-1.5	1.6W	8	194	1	0.13
211029	16:21:14.43	39° 25.27'	110° 17.77'	-2.5	1.4	7	200	3	0.11
211029	17:41:36.35	39° 25.38'	110° 17.93'	-2.4	1.4	9	199	2	0.12
211029	18:39:31.69	39° 25.47'	110° 18.26'	-1.8	1.7	12	197	2	0.14
211029	19:02:34.16	39° 25.44'	110° 18.55'	-1.4	1.7	13	196	1	0.13
211029	19:21:54.97	39° 41.93'	110° 43.24'	-3.0	1.4	7	144	4	0.06
211029	22:47:43.87	39° 25.28'	110° 17.91'	-2.2	1.7	7	199	2	0.12
211029	23:41:54.99	39° 25.40'	110° 18.56'	-1.4	1.7	7	196	1	0.12
211030	00:09:04.75	39° 25.57'	110° 18.39'	-1.8	1.6W	8	196	2	0.13
211030	01:32:25.82	39° 25.45'	110° 18.50'	-1.5	1.6	8	196	1	0.12
211030	02:14:41.80	39° 25.30'	110° 17.66'	-3.0	1.5	7	200	3	0.12
211030	03:24:54.05	39° 25.68'	110° 18.58'	-1.6	1.9	9	195	1	0.14
211030	03:48:25.18	39° 25.77'	110° 17.69'	-2.5	1.6	6	223	3	0.10
211030	03:57:35.29	39° 25.68'	110° 18.28'	-2.0	1.6W	11	182	2	0.14
211030	07:27:38.46	41° 46.30'	112° 22.64'	1.1*	0.1	7	101	13	0.14
211030	13:08:49.80	38° 14.08'	112° 41.05'	3.5	1.1	8	190	6	0.02
211030	19:01:10.86	38° 07.00'	113° 06.43'	1.8	1.1	8	209	10	0.08
211031	06:14:20.40	40° 44.05'	112° 02.85'	10.0	1.2	31	43	1	0.12
211031	07:16:19.26	41° 49.64'	111° 37.06'	11.2	0.8	14	87	12	0.07
211031	07:16:42.82	41° 49.16'	111° 37.39'	10.6	1.0	13	85	12	0.11
211031	16:43:27.16	38° 48.57'	112° 05.40'	9.4	2.2W	25	53	17	0.16
211101	00:07:44.06	39° 31.45'	111° 59.97'	12.0	1.6	9	95	16	0.11
211101	04:17:45.02	40° 44.55'	112° 02.86'	7.6	0.5	9	109	2	0.03
211101	07:28:55.02	41° 52.42'	112° 39.82'	5.8*	0.5	7	159	14	0.08
211101	14:43:33.25	39° 25.64'	110° 18.40'	-1.5	1.6	12	196	2	0.08
211101	14:52:12.67	39° 25.42'	110° 18.08'	-2.0	1.8	8	199	2	0.09
211101	15:49:03.19	39° 25.56'	110° 17.57'	-3.4	1.6W	12	200	3	0.15
211101	17:57:17.80	39° 25.38'	110° 18.23'	-1.7	1.4	7	197	2	0.13
211101	18:35:07.45	38° 09.57'	112° 37.31'	10.4*	1.0	11	136	33	0.10
211101	20:25:24.83	39° 25.55'	110° 18.29'	-1.9	1.5W	8	197	2	0.13
211101	21:01:45.69	39° 25.09'	110° 16.55'	-3.4	1.4	6	207	4	0.19
211101	23:26:43.04	39° 25.16'	110° 17.23'	-3.3	1.5	7	203	3	0.11
211102	00:36:07.76	38° 28.61'	112° 50.85'	-0.1	0.3	16	111	2	0.05
211102	01:00:04.38	39° 25.68'	110° 18.80'	-1.2	1.8	8	194	1	0.04
211102	01:06:44.81	39° 25.70'	110° 19.11'	-1.1	1.4	5	192	1	0.03
211102	01:46:30.88	41° 43.92'	112° 17.76'	3.1*	1.2	13	61	15	0.18
211102	02:50:36.49	39° 25.46'	110° 18.28'	-1.5	--	7	197	2	0.05

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211102	03:45:17.58	39° 25.45'	110° 18.55'	-1.5	1.8	9	196	1	0.13
211102	04:27:14.21	39° 25.54'	110° 18.82'	-1.2	1.5	8	194	1	0.14
211102	06:35:39.72	39° 25.30'	110° 17.64'	-3.1	1.8	7	200	3	0.10
211102	06:41:14.72	39° 25.17'	110° 17.80'	-2.3	1.6	6	200	3	0.13
211102	08:51:54.63	41° 43.59'	112° 17.09'	6.3*	0.8	10	73	15	0.10
211102	10:20:54.58	38° 10.70'	111° 13.96'	6.0*	1.8	15	110	51	0.09
211102	11:14:31.31	39° 52.52'	111° 51.37'	5.2	1.7W	28	66	6	0.24
211102	15:11:59.73	39° 25.72'	110° 18.73'	-1.8	2.1	8	194	1	0.13
211102	17:35:13.02	39° 25.42'	110° 18.67'	-1.4	1.9	7	195	1	0.09
211102	17:50:58.70	39° 25.64'	110° 18.27'	-2.1	1.7W	10	197	2	0.16
211102	17:58:15.24	39° 25.50'	110° 18.42'	-1.7	1.6	8	196	2	0.12
211102	18:39:38.67	39° 25.51'	110° 18.63'	-1.4	1.9	8	195	1	0.13
211102	23:28:23.39	41° 51.20'	111° 40.99'	8.1	1.4	22	66	9	0.14
211102	23:38:05.94	41° 51.34'	111° 40.98'	8.0	1.2W	18	87	9	0.14
211103	00:23:35.61	41° 50.97'	111° 41.37'	8.4	1.0	17	65	8	0.12
211103	01:27:10.04	39° 25.56'	110° 18.42'	-1.7	1.9	8	196	2	0.13
211103	01:56:56.05	39° 43.32'	110° 48.56'	-3.4	1.4	5	191	6	0.23
211103	14:54:54.78	40° 43.68'	112° 03.72'	8.1	0.8	9	88	10	0.06
211103	16:40:39.68	39° 25.23'	110° 18.40'	-1.6	1.7	13	197	2	0.17
211103	17:33:17.44	39° 25.71'	110° 18.92'	-1.2	1.5	8	193	1	0.04
211103	18:24:08.11	39° 25.33'	110° 17.85'	-2.8	1.7	14	183	2	0.15
211103	19:28:09.11	39° 25.51'	110° 18.55'	-1.5	1.9	8	196	1	0.12
211103	19:44:27.69	39° 25.43'	110° 18.64'	-1.3	1.7	8	195	1	0.13
211103	23:25:04.30	39° 25.51'	110° 18.81'	-1.4	1.8	8	194	1	0.13
211103	23:49:14.16	39° 25.54'	110° 18.01'	-2.1	1.7	8	198	2	0.14
211104	01:15:00.15	39° 16.70'	110° 21.81'	1.8*	1.8	5	203	17	0.22
211104	02:44:21.22	41° 39.66'	112° 35.94'	6.6	1.3	20	109	12	0.07
211104	03:02:55.62	39° 25.56'	110° 18.77'	-1.3	1.7	8	194	1	0.12
211104	03:16:06.23	39° 25.52'	110° 18.54'	-1.5	1.4W	9	196	1	0.13
211104	03:39:43.83	39° 25.55'	110° 18.50'	-1.5	1.5W	12	196	1	0.08
211104	04:27:23.17	40° 02.85'	111° 12.86'	5.9*	1.3	9	82	41	0.17
211104	04:40:33.63	41° 58.30'	112° 27.18'	0.3*	0.9	11	113	12	0.14
211104	04:49:03.10	39° 25.68'	110° 18.78'	-1.2	1.5	6	194	1	0.02
211104	06:14:22.94	39° 25.56'	110° 17.74'	-3.2	1.8W	14	184	3	0.18
211104	07:00:01.44	41° 57.65'	112° 27.30'	5.4*	2.3W	31	113	11	0.12
211104	12:00:46.11	41° 58.30'	112° 27.12'	0.5*	0.5	6	113	12	0.18
211104	12:05:35.72	39° 25.46'	110° 17.90'	-2.2	1.9	13	199	2	0.13
211104	12:39:05.39	42° 01.76'	112° 34.33'	6.5*	1.3	13	180	14	0.12
211104	15:39:10.16	39° 25.32'	110° 17.97'	-2.1	1.4	6	199	2	0.08
211104	16:06:00.10	39° 25.07'	110° 16.92'	-3.4	1.9	6	205	4	0.22
211104	19:00:04.20	39° 25.82'	110° 19.39'	-1.2	1.7	6	179	1	0.02
211104	19:32:50.40	39° 25.44'	110° 17.99'	-2.4	1.6W	10	199	2	0.15
211104	23:57:33.46	39° 25.69'	110° 18.81'	-1.3	1.4	5	194	1	0.06
211105	00:41:19.68	39° 25.46'	110° 18.50'	-1.5	1.6	9	196	1	0.11

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211105	01:46:03.54	39° 25.34'	110° 17.62'	-2.8	1.5	8	200	3	0.11
211105	02:38:18.39	39° 25.70'	110° 18.31'	-1.5	1.6	5	197	2	0.06
211105	02:59:01.65	39° 25.24'	110° 17.98'	-2.1	1.6	7	199	2	0.10
211105	03:09:08.89	39° 25.38'	110° 18.42'	-1.6	1.5W	7	196	2	0.12
211105	04:11:48.89	39° 25.29'	110° 17.74'	-2.8	1.7	7	200	3	0.11
211105	06:15:36.38	39° 25.30'	110° 17.91'	-2.2	1.4	7	199	2	0.10
211105	07:17:39.91	39° 25.65'	110° 18.64'	-1.5	1.3	8	194	1	0.09
211105	09:53:25.25	40° 45.19'	112° 04.11'	6.2	1.7W	41	49	4	0.13
211105	10:17:36.95	41° 47.57'	112° 23.08'	4.8*	1.2	17	110	15	0.13
211105	23:57:10.30	38° 10.16'	112° 37.44'	8.7	2.5W	27	68	12	0.15
211106	08:46:58.21	41° 57.93'	112° 27.26'	0.3*	0.3	6	113	11	0.05
211106	11:42:32.46	41° 57.99'	112° 27.27'	5.0*	1.7W	22	113	12	0.16
211106	12:07:46.55	39° 25.27'	110° 17.50'	-3.4	1.6	6	224	3	0.12
211106	14:49:41.02	40° 43.20'	112° 05.50'	9.7	0.3	10	100	5	0.10
211106	14:54:02.82	40° 43.28'	112° 05.29'	11.2	1.8W	43	44	4	0.20
211106	14:59:05.88	40° 42.65'	112° 05.62'	13.1	0.5	14	90	3	0.07
211106	15:15:46.53	40° 43.40'	111° 45.55'	5.2	0.5	11	100	4	0.11
211106	15:26:19.23	40° 43.34'	111° 46.03'	4.5	0.7	8	106	4	0.04
211106	18:01:07.69	41° 58.10'	112° 27.05'	1.3*	0.6	8	112	11	0.08
211106	19:43:05.55	40° 42.81'	112° 05.54'	12.1	0.4	8	97	7	0.07
211107	01:50:31.55	41° 58.75'	112° 26.07'	0.9*	0.5	6	107	11	0.11
211107	17:39:13.51	39° 25.09'	110° 18.49'	-2.6	1.5	6	219	2	0.05
211108	03:42:25.71	38° 27.59'	109° 38.90'	6.1*	1.7	8	124	39	0.16
211108	04:46:27.56	41° 47.36'	112° 22.71'	2.8*	0.5	8	115	15	0.10
211108	05:07:57.15	41° 47.01'	112° 22.26'	3.3*	0.2	6	118	14	0.10
211108	08:27:39.52	41° 47.61'	112° 22.81'	4.0*	0.3	7	114	15	0.08
211108	15:34:04.23	39° 25.46'	110° 18.27'	-2.0	1.6	11	220	2	0.15
211108	17:32:44.72	39° 25.51'	110° 18.06'	-2.3	1.8	12	220	2	0.15
211108	20:02:55.43	39° 25.72'	110° 19.80'	-1.3	1.5	7	145	1	0.13
211108	20:48:05.42	39° 25.47'	110° 17.81'	-2.4	1.7	8	222	2	0.10
211108	20:58:03.05	39° 25.02'	110° 17.11'	-3.2	1.6	5	226	4	0.12
211108	21:08:05.62	39° 25.36'	110° 17.74'	-2.7	1.7	7	222	3	0.14
211109	01:02:18.36	39° 25.48'	110° 18.93'	-1.3	1.8	7	217	1	0.14
211109	02:32:48.44	40° 38.99'	112° 14.54'	3.4	1.8W	40	46	1	0.18
211109	02:53:15.04	40° 39.19'	112° 14.76'	0.5	-0.2	8	190	1	0.08
211109	04:25:20.86	39° 25.33'	110° 17.86'	-2.7	1.7	7	222	2	0.13
211109	05:17:19.91	39° 25.59'	110° 18.03'	-2.2	1.8	7	220	2	0.14
211109	07:03:31.16	39° 25.24'	110° 16.83'	-3.4	1.8	6	227	4	0.16
211109	09:40:16.97	37° 56.80'	112° 34.31'	4.8*	1.7	11	167	41	0.16
211109	12:26:54.08	38° 10.33'	112° 38.27'	9.8*	1.2	9	239	32	0.11
211109	16:02:37.96	39° 25.58'	110° 18.38'	-1.8	2.3	8	219	2	0.14
211109	17:55:44.29	39° 25.31'	110° 18.41'	-1.8	2.1	6	219	2	0.11
211109	18:56:40.41	39° 25.20'	110° 16.87'	-3.4	2.0	8	226	4	0.18
211109	20:39:02.32	39° 25.83'	110° 19.84'	-1.2	1.2	5	152	1	0.00

**Table 2. Earthquakes in the Utah Region: October 1–December 31, 2021**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211109	22:27:16.32	39° 25.58'	110° 18.32'	-1.5	1.7W	8	220	2	0.06
211109	23:31:14.48	39° 25.54'	110° 17.81'	-2.2	1.5	6	222	2	0.10
211110	01:19:52.11	41° 47.16'	112° 21.84'	0.9*	0.8	7	144	15	0.22
211110	01:30:56.95	39° 25.43'	110° 18.81'	-1.3	1.9	7	217	1	0.13
211110	03:36:27.15	41° 58.62'	112° 27.01'	0.9*	0.5	8	112	12	0.20
211110	04:34:40.92	39° 38.67'	110° 57.17'	12.9	1.9W	21	50	20	0.19
211110	06:40:38.41	37° 29.63'	112° 21.11'	12.4*	1.9W	9	216	66	0.16
211110	07:00:04.51	41° 16.90'	111° 38.20'	12.5*	1.0	9	124	26	0.09
211110	08:34:22.12	39° 25.43'	110° 18.72'	-1.4	1.5W	7	217	1	0.13
211110	11:49:30.29	40° 46.10'	111° 59.52'	6.6	1.0	28	54	3	0.18
211110	12:54:35.22	41° 47.47'	112° 23.06'	3.1*	0.8	9	109	15	0.13
211110	13:27:13.77	41° 47.46'	112° 22.70'	5.3*	0.5	9	115	15	0.10
211111	07:13:08.37	39° 25.48'	110° 15.96'	-3.3	1.9	5	212	5	0.24
211111	08:21:59.87	38° 13.86'	112° 41.04'	3.8	1.3W	13	191	6	0.03
211111	13:20:58.41	39° 57.62'	111° 56.05'	4.1*	1.3	6	103	12	0.06
211111	16:05:04.49	39° 25.43'	110° 19.01'	-1.3	1.9	6	216	1	0.12
211111	16:24:12.55	39° 25.45'	110° 18.81'	-1.3	1.6	6	217	1	0.12
211111	19:26:17.01	39° 25.51'	110° 18.44'	-1.8	1.9W	14	219	2	0.14
211111	20:11:25.57	39° 25.58'	110° 18.52'	-1.4	1.3	8	219	1	0.09
211111	20:53:21.61	39° 25.59'	110° 17.95'	-2.1	1.3	5	222	2	0.00
211111	21:16:40.34	38° 18.50'	112° 35.19'	5.7	1.2W	11	178	6	0.02
211111	21:22:30.64	38° 17.83'	112° 35.32'	7.2	0.8	7	189	5	0.01
211112	00:19:02.94	39° 25.73'	110° 18.35'	-1.5	2.0	7	220	2	0.07
211112	01:21:31.83	39° 25.66'	110° 18.67'	-1.3	1.4	6	218	1	0.00
211112	01:28:13.57	39° 25.39'	110° 18.67'	-1.6	1.6	6	217	1	0.14
211112	01:33:40.89	39° 25.40'	110° 17.83'	-2.6	1.7W	7	222	2	0.13
211112	01:34:56.49	39° 25.67'	110° 18.76'	-1.5	1.9	7	217	1	0.13
211112	02:32:14.53	39° 25.60'	110° 18.60'	-1.6	1.8	9	218	1	0.15
211112	03:02:30.10	41° 52.26'	111° 29.60'	9.8*	0.9	12	127	24	0.06
211112	23:09:55.44	39° 41.93'	110° 43.51'	-3.2	1.3	7	146	4	0.09
211112	23:59:32.73	41° 47.20'	112° 22.80'	4.8*	2.4W	29	76	14	0.17
211113	00:44:56.60	41° 47.41'	112° 22.36'	6.0*	0.7	12	75	15	0.12
211113	08:23:19.87	41° 52.78'	111° 34.80'	4.2*	1.5W	28	74	17	0.18
211113	08:28:52.64	39° 25.11'	110° 16.70'	-3.4	1.6	6	206	4	0.18
211113	13:42:26.09	41° 52.70'	111° 34.84'	5.6*	0.9	12	209	17	0.07
211113	18:22:15.65	41° 52.58'	111° 33.72'	2.2*	1.1	14	105	19	0.09
211113	22:51:24.97	41° 47.89'	112° 23.03'	4.0*	1.0	12	89	15	0.18
211114	01:33:58.21	41° 52.70'	111° 34.28'	6.2*	0.9	13	107	18	0.06
211114	04:09:21.59	38° 58.69'	111° 22.57'	5.3*	2.0	11	89	19	0.14
211114	05:08:18.08	37° 57.57'	112° 56.20'	13.5	1.5W	13	165	17	0.11
211114	08:59:54.91	38° 10.57'	112° 37.96'	6.3*	0.9	12	234	33	0.15
211114	10:24:29.91	41° 47.66'	112° 22.64'	3.1*	0.6	14	76	15	0.15
211114	17:19:17.24	41° 53.77'	111° 54.25'	2.3*	1.9W	26	69	15	0.13
211114	23:42:44.84	38° 11.57'	112° 38.90'	11.7*	1.1	17	183	31	0.21

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211115	04:13:03.97	37° 21.49'	109° 26.74'	10.9*	1.9W	12	120	86	0.11
211115	07:19:07.96	41° 47.79'	112° 22.86'	7.3*	0.4	6	114	15	0.12
211115	15:57:27.73	39° 25.21'	110° 17.47'	-3.5	1.9W	12	202	3	0.14
211115	19:16:33.85	39° 25.20'	110° 18.08'	-2.1	1.6	12	199	2	0.11
211115	21:58:32.58	37° 22.63'	114° 07.37'	14.6	1.7W	12	128	25	0.15
211115	22:57:23.27	39° 25.35'	110° 17.86'	-3.0	1.7W	13	199	2	0.15
211116	01:48:18.95	41° 52.71'	111° 33.96'	4.4*	1.2	20	106	18	0.10
211116	02:20:04.65	41° 52.68'	111° 33.77'	3.5*	1.2	18	105	19	0.08
211116	04:45:05.49	40° 06.26'	111° 13.43'	11.1*	1.7W	20	79	34	0.26
211116	05:18:48.51	40° 05.15'	111° 14.11'	15.1*	1.4	12	78	36	0.12
211116	05:31:20.20	39° 25.50'	110° 18.38'	-1.8	1.8	8	196	2	0.13
211116	06:27:54.45	39° 25.78'	110° 18.62'	-1.6	1.7	9	194	1	0.09
211116	10:54:03.49	37° 30.51'	113° 49.65'	5.2	0.9	10	200	6	0.18
211116	12:22:32.01	41° 52.67'	111° 34.77'	6.0*	1.4	11	187	17	0.06
211116	15:22:08.03	39° 25.44'	110° 17.89'	-3.3	1.9	13	199	2	0.13
211116	16:30:11.63	39° 25.58'	110° 18.58'	-1.7	2.0	8	195	1	0.13
211116	18:03:01.53	39° 25.74'	110° 19.50'	-1.1	1.5	6	165	1	0.04
211116	19:16:23.79	39° 25.98'	110° 20.02'	-1.6	1.9	7	149	1	0.05
211116	20:19:22.84	39° 25.56'	110° 18.12'	-1.9	1.6W	9	197	2	0.08
211117	00:20:42.65	39° 25.72'	110° 19.21'	-1.2	1.4	5	191	1	0.03
211117	02:06:31.37	39° 25.26'	110° 17.88'	-2.5	2.0	7	199	2	0.10
211117	02:51:31.54	39° 25.72'	110° 19.13'	-1.1	1.2	5	192	1	0.02
211117	03:15:39.43	39° 25.42'	110° 17.96'	-2.5	1.7W	11	183	2	0.15
211117	04:08:27.41	39° 25.58'	110° 18.87'	-1.2	1.6	5	194	1	0.03
211117	04:30:26.96	39° 25.27'	110° 18.32'	-1.8	1.7	8	197	2	0.12
211117	05:42:15.60	39° 25.13'	110° 16.96'	-3.4	1.8	5	205	4	0.15
211117	06:48:51.14	38° 29.52'	112° 50.36'	-0.1	1.0	16	101	1	0.07
211117	07:40:20.79	39° 26.09'	110° 19.60'	-1.9	1.7	9	112	1	0.13
211117	19:07:54.65	39° 25.44'	110° 18.71'	-1.4	1.8	8	194	1	0.12
211117	21:11:11.21	39° 25.48'	110° 18.32'	-1.6	1.7	9	197	2	0.14
211117	21:14:29.30	39° 25.62'	110° 18.57'	-1.6	1.8	8	195	1	0.13
211118	00:30:02.09	39° 25.36'	110° 18.29'	-1.8	1.8	12	182	2	0.14
211118	00:49:57.37	39° 25.39'	110° 18.35'	-1.7	1.8	8	197	2	0.11
211118	02:45:13.20	39° 25.70'	110° 19.11'	-1.2	1.0	5	192	1	0.01
211118	08:57:26.98	37° 51.67'	112° 32.34'	9.1*	2.0W	21	80	49	0.21
211118	09:52:12.28	37° 28.71'	113° 46.87'	8.1	1.5W	13	118	7	0.14
211118	18:16:31.23	39° 25.52'	110° 18.45'	-1.8	1.5W	8	196	2	0.13
211118	19:11:01.11	39° 25.78'	110° 19.08'	-1.4	2.0	11	192	1	0.06
211118	20:20:57.86	39° 25.36'	110° 18.25'	-2.7	1.9	12	197	2	0.10
211119	00:56:16.80	37° 06.59'	112° 56.71'	5.9*	0.9	7	146	15	0.11
211119	11:23:55.38	41° 47.51'	112° 22.83'	2.5*	1.5W	21	76	15	0.12
211119	11:26:49.79	41° 47.84'	112° 22.96'	6.8*	0.6	8	114	15	0.13
211119	11:35:43.27	41° 47.47'	112° 22.77'	4.5*	1.7W	23	76	15	0.13
211119	15:11:56.34	37° 16.18'	113° 17.42'	16.7	0.9	7	115	17	0.05
211119	20:54:46.63	39° 25.47'	110° 17.28'	-3.4	2.4	6	261	3	0.15

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211120	05:09:03.43	41° 47.70'	112° 23.32'	14.2	0.2	8	112	15	0.06
211120	08:44:59.39	41° 28.77'	112° 20.02'	1.6*	1.8W	36	89	12	0.13
211120	20:30:08.92	40° 02.21'	111° 18.07'	12.6*	1.3	10	94	28	0.23
211121	05:36:32.41	41° 06.67'	111° 38.19'	12.3	1.3	24	72	19	0.10
211121	17:24:00.85	38° 29.03'	112° 50.63'	0.2	0.9W	14	105	3	0.04
211121	20:46:39.26	41° 47.37'	112° 23.43'	1.0*	1.4W	20	77	14	0.18
211122	00:02:17.32	41° 47.54'	112° 22.65'	5.9*	0.7	9	87	15	0.17
211122	04:05:35.61	41° 47.86'	112° 22.69'	8.8	0.8	6	138	15	0.07
211122	16:14:01.43	37° 54.09'	113° 03.34'	11.3*	1.3	11	173	23	0.13
211123	00:03:27.50	39° 25.73'	110° 18.88'	-1.2	1.8	7	193	1	0.07
211123	00:32:49.15	41° 55.64'	111° 49.73'	9.3	0.8	13	75	15	0.10
211123	01:17:54.79	39° 25.55'	110° 18.33'	-1.8	1.6	5	197	2	0.07
211123	02:05:32.13	39° 25.48'	110° 18.70'	-1.4	2.0	8	194	1	0.13
211123	02:09:58.53	39° 25.72'	110° 18.67'	-1.6	1.4W	12	182	1	0.10
211123	04:28:24.18	39° 25.51'	110° 18.38'	-1.9	1.9	8	196	2	0.13
211123	15:14:26.14	39° 25.57'	110° 18.87'	-1.2	1.8	6	194	1	0.04
211123	15:24:38.77	39° 25.45'	110° 18.11'	-2.3	1.8W	10	197	2	0.14
211123	16:22:40.00	39° 25.81'	110° 19.32'	-1.3	1.7	6	187	1	0.02
211123	17:30:05.83	39° 25.43'	110° 18.20'	-2.2	1.7	7	197	2	0.12
211123	19:35:01.97	39° 25.48'	110° 17.92'	-2.8	2.0W	11	199	2	0.12
211123	19:46:16.84	39° 25.47'	110° 18.01'	-2.5	1.8	10	199	2	0.13
211123	20:58:41.63	39° 25.49'	110° 18.65'	-1.4	1.6	8	195	1	0.12
211124	00:55:34.27	39° 25.43'	110° 18.45'	-1.7	1.8	8	196	2	0.13
211124	01:03:15.50	39° 43.32'	110° 48.34'	-3.4	1.8	8	100	5	0.16
211124	03:06:31.69	39° 25.35'	110° 18.42'	-1.7	2.0W	20	108	2	0.18
211124	03:47:23.12	39° 25.66'	110° 19.09'	-1.2	1.6	5	192	1	0.01
211124	05:50:38.01	40° 43.09'	111° 57.33'	5.1	1.0	17	89	7	0.08
211124	16:33:37.83	39° 25.04'	110° 16.61'	-3.4	1.8	6	207	4	0.21
211124	19:12:49.42	39° 25.41'	110° 17.69'	-3.4	2.1	11	200	3	0.10
211126	13:39:38.07	37° 51.12'	112° 32.29'	7.4*	2.8W	24	96	49	0.18
211126	14:52:02.05	37° 51.62'	112° 32.21'	3.4*	2.0W	20	96	49	0.17
211127	02:20:24.38	37° 33.78'	113° 02.44'	11.6	1.5W	14	194	5	0.12
211127	02:21:20.71	37° 33.91'	113° 03.03'	11.2	0.9W	15	192	5	0.07
211127	03:26:08.39	38° 22.33'	112° 46.11'	6.7	1.6W	17	150	9	0.11
211127	05:50:00.90	38° 20.06'	112° 56.50'	5.3*	0.4	9	233	14	0.08
211127	08:34:35.54	38° 22.39'	112° 45.95'	4.1	1.7W	18	169	9	0.14
211127	13:37:14.33	38° 11.83'	112° 21.03'	5.9*	1.1	9	120	36	0.16
211127	18:23:37.56	41° 53.96'	111° 53.86'	3.0*	1.3	11	136	15	0.10
211127	23:59:44.20	38° 22.39'	112° 45.85'	2.8	2.0W	27	123	9	0.13
211128	02:57:09.72	38° 29.54'	112° 50.20'	-0.2	1.6	16	97	2	0.11
211128	02:57:24.01	38° 29.49'	112° 50.23'	-0.2	1.4	10	119	2	0.07
211128	03:11:48.89	38° 22.20'	112° 46.05'	3.5	1.1	17	169	9	0.05
211128	04:01:01.42	40° 43.78'	112° 01.89'	9.9	0.6	11	101	0	0.05
211128	05:35:02.30	37° 51.75'	112° 31.96'	8.2*	1.6	12	96	49	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211128	07:12:52.57	38° 22.24'	112° 46.08'	2.5*	0.8	9	169	13	0.02
211128	07:16:40.62	38° 22.48'	112° 46.34'	4.4*	0.7	10	167	12	0.07
211128	09:25:32.84	37° 26.42'	112° 58.63'	4.2*	2.1W	22	143	16	0.11
211128	09:48:39.86	37° 26.09'	112° 57.77'	2.3*	1.1W	9	211	17	0.09
211128	10:45:16.67	38° 22.33'	112° 46.12'	4.4	1.6W	20	169	9	0.09
211128	11:15:46.84	37° 26.49'	112° 58.90'	6.1*	3.1W	26	115	16	0.13
211128	11:38:45.97	41° 48.35'	111° 40.91'	15.3	1.0	8	169	7	0.09
211128	12:04:30.31	41° 27.66'	109° 41.54'	-3.3	2.0	9	190	9	0.20
211128	12:29:36.14	37° 26.39'	112° 58.61'	-0.9*	2.3W	21	143	16	0.11
211128	14:38:17.13	37° 25.34'	112° 59.25'	1.7*	1.6W	14	150	14	0.11
211128	14:40:20.58	37° 25.00'	112° 59.18'	2.3*	1.6W	8	150	14	0.07
211128	15:25:28.12	39° 28.55'	111° 13.54'	6.7*	2.2	11	151	18	0.08
211128	16:48:28.94	37° 25.65'	112° 58.74'	-0.7*	1.4W	11	151	15	0.07
211128	17:54:46.64	37° 26.46'	112° 58.73'	4.1*	2.3W	24	128	16	0.11
211128	18:13:38.25	37° 25.74'	112° 59.55'	2.7*	1.8W	18	62	14	0.30
211128	19:49:33.80	37° 25.66'	113° 00.18'	1.8*	1.7W	15	81	13	0.22
211128	20:36:55.79	36° 55.52'	112° 21.71'	13.8	1.9W	15	126	20	0.15
211128	20:45:55.29	37° 26.18'	112° 59.11'	5.0*	1.0W	8	150	15	0.06
211128	21:13:32.10	37° 25.07'	113° 00.94'	1.8*	1.1W	9	157	12	0.36
211129	20:45:07.70	38° 22.40'	112° 46.44'	4.5	2.8W	35	57	9	0.12
211129	20:51:38.27	38° 22.49'	112° 46.23'	7.2*	0.4	10	167	16	0.05
211129	21:46:33.31	38° 22.36'	112° 46.20'	6.8*	0.4	9	168	16	0.05
211129	21:52:51.30	38° 23.28'	112° 46.78'	10.0	0.2	9	163	14	0.05
211129	23:43:40.91	38° 22.47'	112° 46.30'	4.1	1.2W	17	167	9	0.07
211130	00:58:45.33	38° 22.14'	112° 46.05'	3.8	1.3	14	169	9	0.05
211130	05:44:43.20	38° 22.31'	112° 45.93'	3.5	1.1	18	169	9	0.09
211130	06:36:16.54	38° 22.04'	112° 46.07'	2.8	0.5	12	169	9	0.03
211130	10:41:05.06	38° 27.17'	112° 27.71'	8.4*	1.7W	18	155	17	0.07
211130	11:58:35.19	38° 27.52'	112° 27.49'	13.0	1.3W	14	155	17	0.04
211130	12:00:22.01	38° 27.00'	112° 28.03'	5.9*	1.0W	12	157	18	0.07
211130	14:56:47.65	37° 25.60'	113° 00.07'	4.7*	2.0W	12	91	13	0.22
211130	15:22:35.85	37° 25.73'	112° 58.49'	2.1*	1.3W	8	164	16	0.07
211130	17:44:43.27	38° 22.01'	112° 46.04'	3.2	1.3W	20	170	10	0.05
211201	06:18:53.61	38° 26.97'	112° 27.72'	8.1*	1.5W	16	157	18	0.06
211201	07:09:26.89	38° 26.97'	112° 27.92'	4.1*	1.2	16	130	18	0.12
211201	09:51:17.33	38° 22.11'	112° 46.01'	3.0	0.9	15	169	9	0.05
211201	13:17:04.91	38° 22.49'	112° 46.41'	3.7	0.6	13	167	9	0.11
211201	14:55:51.94	41° 51.67'	112° 23.71'	9.4	1.1	16	135	10	0.13
211201	19:46:42.29	38° 22.50'	112° 46.29'	4.7	1.0	16	141	9	0.05
211201	20:29:03.88	37° 51.43'	112° 32.62'	8.0*	2.4W	25	79	48	0.23
211201	21:33:57.98	38° 38.59'	112° 32.70'	0.6	1.7W	15	126	9	0.11
211202	02:49:33.51	42° 22.46'	111° 30.90'	-0.7*	1.4	18	121	36	0.15
211202	12:38:59.90	41° 51.48'	112° 20.95'	5.0	0.5	7	133	8	0.06
211202	13:47:57.62	38° 29.56'	112° 49.11'	-1.6	0.7	11	116	3	0.10



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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211202	18:34:58.87	39° 24.88'	110° 16.71'	-3.4	2.1	7	253	4	0.18
211202	20:55:30.00	37° 26.06'	112° 58.77'	3.2*	1.2W	10	152	16	0.11
211202	21:10:19.15	38° 21.98'	112° 45.90'	3.4	--	13	224	10	0.07
211202	21:10:23.76	38° 21.74'	112° 49.14'	3.8	0.1	13	216	7	0.13
211202	22:38:02.33	37° 01.84'	112° 56.47'	20.7	1.9W	13	128	11	0.10
211203	00:34:27.88	38° 22.34'	112° 46.05'	3.7	0.5	11	169	9	0.05
211203	01:01:03.17	38° 21.58'	112° 46.07'	3.3	0.8	11	228	10	0.05
211203	04:22:26.76	40° 42.26'	111° 38.09'	6.0	0.9	22	56	10	0.18
211203	20:07:10.99	40° 43.55'	112° 04.34'	7.0	1.2	26	53	3	0.10
211204	14:30:31.31	40° 43.47'	112° 04.15'	6.7	1.2	26	42	3	0.11
211205	02:59:32.79	40° 43.57'	112° 03.78'	7.3	0.5	10	97	2	0.05
211206	16:22:07.74	39° 24.90'	110° 16.52'	-3.4	2.8W	6	253	4	0.16
211206	18:00:24.90	39° 26.62'	110° 18.20'	-3.4	1.5	7	209	3	0.22
211206	21:13:43.75	39° 56.75'	111° 56.19'	5.3*	1.5W	16	75	12	0.12
211207	00:46:11.73	37° 20.39'	114° 06.44'	12.3*	1.2	9	134	26	0.16
211207	01:27:43.04	39° 25.90'	110° 17.64'	-3.3	2.4	10	124	3	0.18
211207	01:56:42.26	37° 28.52'	113° 46.25'	0.2	1.2	10	64	8	0.21
211207	01:59:46.25	37° 30.63'	113° 54.00'	0.2	1.1	8	130	7	0.14
211207	12:36:06.57	37° 28.13'	113° 46.28'	2.9	1.4	13	65	8	0.16
211207	20:36:31.11	41° 28.59'	112° 19.41'	0.5*	1.1	10	116	12	0.07
211208	06:16:32.69	40° 27.58'	111° 56.34'	6.3	1.3W	35	55	1	0.20
211208	14:27:31.89	41° 38.30'	112° 48.26'	8.5*	2.3W	31	188	29	0.14
211208	15:00:02.06	38° 26.62'	112° 27.98'	3.4*	1.4W	13	159	18	0.10
211208	15:12:31.05	38° 27.10'	112° 27.86'	7.9*	1.2W	8	156	18	0.06
211208	16:23:38.56	38° 26.85'	112° 27.73'	5.8*	0.9	7	159	18	0.07
211208	16:23:56.53	38° 26.90'	112° 27.95'	4.9*	1.7W	13	145	18	0.08
211209	08:22:25.04	38° 44.86'	111° 28.71'	15.7*	2.2W	12	146	50	0.15
211209	12:18:44.18	38° 43.01'	111° 25.51'	6.1*	1.7	8	202	55	0.17
211209	13:53:43.26	38° 45.97'	111° 28.73'	8.1*	2.0	13	212	48	0.13
211209	14:03:53.86	38° 40.65'	111° 24.53'	5.0*	2.0W	11	198	60	0.20
211209	14:46:17.62	37° 49.45'	113° 09.82'	13.4	1.8W	23	126	25	0.12
211209	19:25:04.19	41° 47.72'	112° 22.97'	2.3*	1.0	9	109	15	0.09
211209	21:11:59.31	38° 22.07'	112° 46.01'	1.7*	0.7	12	225	13	0.05
211210	10:06:47.63	41° 39.19'	112° 19.27'	5.2	1.2	22	64	9	0.14
211210	13:37:23.37	41° 57.31'	112° 35.09'	0.6*	0.3	9	154	22	0.16
211210	21:32:14.02	38° 22.31'	112° 46.18'	3.6*	0.8	10	169	13	0.03
211210	23:23:30.27	39° 26.68'	110° 18.94'	-3.3	2.6	10	113	2	0.27
211211	03:03:14.26	38° 07.42'	112° 27.17'	6.0*	1.1	8	242	47	0.04
211211	03:32:35.61	37° 25.84'	112° 58.46'	2.3*	1.4W	9	164	16	0.15
211211	09:20:18.95	42° 25.82'	111° 30.38'	8.9*	1.8W	11	143	42	0.13
211211	13:48:30.28	38° 28.88'	112° 50.52'	-0.4	1.0W	12	110	3	0.06
211211	21:13:55.42	40° 29.03'	113° 17.25'	10.9*	1.9W	19	95	51	0.16
211212	21:06:38.10	36° 53.80'	112° 16.62'	21.4	1.9	7	224	28	0.07
211212	21:32:50.76	41° 51.69'	112° 29.71'	9.4	1.3	19	108	16	0.10

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211213	07:44:44.29	38° 14.07'	112° 41.96'	2.5	1.2	11	195	7	0.09
211213	15:41:22.50	38° 22.14'	112° 45.40'	3.6	0.9	12	171	10	0.06
211213	21:01:08.15	37° 26.03'	112° 58.76'	-0.8*	1.2W	8	191	16	0.12
211213	21:02:00.04	38° 29.32'	112° 50.63'	0.4	0.4	15	210	1	0.09
211213	21:20:53.98	37° 25.93'	112° 59.23'	3.1*	1.7W	10	158	15	0.07
211214	02:32:15.85	37° 25.04'	112° 59.59'	3.6*	1.5W	11	172	14	0.09
211214	03:27:02.02	37° 27.45'	114° 05.98'	12.6	1.2	8	150	21	0.03
211214	04:07:04.88	38° 37.56'	111° 54.18'	3.7*	2.6W	28	130	30	0.28
211214	09:59:27.64	37° 53.40'	113° 00.96'	8.2*	2.2W	19	138	24	0.19
211214	14:51:13.43	37° 26.01'	112° 59.41'	1.9*	1.6	10	154	15	0.15
211214	21:05:05.69	38° 29.05'	112° 50.15'	0.2	-0.5	8	138	3	0.15
211214	21:05:39.07	38° 29.47'	112° 50.42'	0.1	-0.3	8	117	3	0.04
211214	21:12:33.96	38° 29.47'	112° 50.16'	0.3	--	8	214	3	0.06
211215	00:59:54.93	38° 29.16'	112° 50.75'	-0.2	1.6W	15	120	1	0.08
211215	09:34:53.76	41° 58.02'	112° 32.42'	3.3*	1.2	10	141	18	0.05
211215	18:33:38.60	38° 14.95'	112° 35.03'	6.0*	1.3	10	199	34	0.14
211215	21:41:39.97	39° 25.87'	110° 18.03'	-3.5	1.8	6	238	2	0.15
211216	00:02:53.71	36° 49.57'	112° 56.46'	24.7	1.7W	10	166	24	0.06
211216	04:01:12.37	39° 24.87'	110° 16.45'	-3.4	2.5	8	248	5	0.18
211216	06:30:52.07	40° 42.89'	112° 02.85'	8.5	0.3	7	127	2	0.02
211216	09:41:44.17	38° 04.13'	112° 49.32'	11.8	1.6	16	170	16	0.17
211216	11:40:45.19	39° 39.63'	111° 16.89'	-3.3	1.3	6	142	7	0.16
211216	12:05:02.44	36° 48.08'	113° 00.75'	13.6*	2.3W	11	261	29	0.19
211216	21:41:12.19	41° 43.00'	112° 12.94'	4.4*	0.9	8	179	14	0.13
211217	16:33:20.68	38° 20.26'	113° 04.67'	3.8	0.9	13	125	4	0.07
211217	18:57:03.75	37° 45.29'	113° 07.09'	4.2	1.4	9	149	10	0.22
211217	20:26:29.03	39° 26.97'	111° 21.71'	1.1*	1.6	8	240	38	0.21
211217	23:51:36.73	41° 38.29'	111° 41.05'	9.9	1.1	13	129	10	0.12
211218	10:43:00.34	38° 22.29'	112° 46.09'	3.0	0.6	11	142	9	0.05
211219	10:43:08.63	40° 44.29'	112° 02.94'	5.8	0.9	13	61	2	0.10
211219	10:55:10.28	37° 26.40'	112° 58.08'	3.6*	1.9W	18	146	17	0.15
211219	21:39:35.28	42° 01.87'	111° 27.20'	4.3*	1.5	12	184	20	0.07
211220	04:23:52.94	39° 53.64'	113° 19.18'	7.6*	2.7W	18	103	20	0.11
211220	04:43:27.12	39° 54.44'	113° 20.22'	4.6*	2.8W	15	108	21	0.17
211220	05:03:05.92	39° 53.91'	113° 18.00'	4.9*	1.4	14	149	21	0.17
211220	05:52:45.93	37° 26.02'	112° 58.06'	-0.9*	1.2W	9	194	16	0.07
211220	05:55:27.44	37° 25.70'	112° 58.30'	1.8*	1.7W	13	132	16	0.10
211220	05:56:03.78	37° 25.98'	112° 58.16'	1.8*	2.5W	14	147	16	0.13
211220	07:27:37.78	39° 54.82'	113° 22.11'	2.0*	1.9W	12	178	57	0.21
211221	00:48:58.90	37° 57.29'	114° 08.96'	5.6*	1.3	9	112	30	0.16
211221	06:16:17.56	39° 25.89'	110° 17.55'	-3.2	2.2	6	244	3	0.21
211221	07:45:51.41	40° 01.50'	111° 26.37'	4.3*	1.3	14	97	17	0.12
211221	10:38:19.83	39° 27.16'	111° 15.50'	3.4*	2.3W	19	152	21	0.18
211221	10:42:21.60	38° 22.28'	112° 45.96'	1.1	0.9	14	169	9	0.10

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
211221	18:02:00.30	39° 25.26'	110° 18.06'	-2.6	1.5W	9	199	2	0.15
211221	18:51:10.53	39° 25.22'	110° 17.59'	-3.4	1.9	6	201	3	0.11
211221	20:50:35.70	39° 25.17'	110° 17.77'	-3.2	2.3W	13	200	3	0.16
211221	21:31:32.53	39° 25.66'	110° 18.82'	-1.5	1.7	8	194	1	0.04
211221	22:36:45.46	37° 11.43'	112° 53.63'	19.6	3.6W	22	93	20	0.17
211222	03:44:05.74	41° 57.13'	112° 34.65'	1.5*	0.6	9	151	21	0.14
211222	05:07:40.55	39° 25.37'	110° 18.32'	-1.9	1.8	9	197	2	0.15
211222	07:45:06.47	38° 22.47'	112° 46.14'	3.7	1.2W	13	167	9	0.09
211222	10:40:18.94	37° 25.46'	112° 59.33'	2.0*	1.4W	9	150	14	0.27
211222	10:59:36.59	38° 29.10'	112° 51.02'	4.0	0.9	15	98	3	0.05
211222	13:12:47.00	38° 13.83'	112° 22.86'	8.8*	2.0W	26	185	34	0.17
211222	13:46:48.11	39° 29.25'	111° 32.23'	10.4*	1.5	16	66	24	0.19
211222	15:32:43.72	39° 45.03'	110° 55.06'	10.9	1.3	7	160	11	0.27
211222	22:18:14.90	39° 25.40'	110° 18.12'	-2.1	1.9W	13	197	2	0.11
211223	00:32:46.23	40° 45.25'	112° 04.74'	7.3	0.8	18	60	5	0.08
211223	03:46:19.77	39° 25.51'	110° 18.54'	-1.8	1.7	10	196	1	0.11
211223	05:31:59.29	40° 55.73'	111° 38.42'	12.8	1.1	18	90	18	0.14
211223	05:45:11.21	39° 25.26'	110° 18.37'	-1.5	2.0	6	197	2	0.03
211223	05:59:13.68	39° 25.81'	110° 19.99'	-2.2	1.9W	16	110	1	0.22
211223	06:40:06.32	39° 39.91'	111° 14.64'	-1.3	1.0	5	123	4	0.01
211223	07:14:22.52	39° 38.72'	111° 17.55'	-3.3	1.4	13	100	8	0.13
211223	07:20:29.56	39° 25.66'	110° 19.62'	-1.6	1.8	11	117	0	0.17
211223	08:38:19.92	39° 27.44'	111° 53.30'	13.6	0.9	12	96	8	0.08
211223	16:03:50.26	39° 25.55'	110° 19.50'	-1.0	1.7	6	168	0	0.06
211223	16:28:58.83	39° 25.60'	110° 19.33'	-1.2	1.2	6	191	0	0.03
211223	18:12:01.42	39° 25.36'	110° 18.47'	-1.9	1.8	10	196	2	0.13
211223	18:12:27.74	39° 25.49'	110° 18.58'	-1.8	1.6	6	254	1	0.08
211223	20:08:36.54	39° 25.87'	110° 19.58'	-1.4	1.4	7	155	1	0.04
211223	21:08:04.02	41° 15.85'	112° 16.92'	4.4*	0.7	9	120	15	0.13
211223	22:03:36.15	39° 25.55'	110° 18.90'	-1.3	1.5	5	194	1	0.02
211223	22:50:59.79	39° 25.57'	110° 18.45'	-2.1	2.3	8	196	2	0.14
211223	22:58:50.23	39° 25.60'	110° 19.17'	-1.2	1.7	5	192	1	0.02
211224	03:55:58.74	39° 25.22'	110° 18.06'	-3.1	2.1	8	199	2	0.14
211224	15:38:48.16	38° 22.01'	112° 45.99'	3.5	0.8	9	226	10	0.02
211224	23:44:45.93	41° 56.53'	112° 42.12'	2.9*	1.0	8	194	19	0.20
211225	07:22:37.58	38° 22.71'	112° 46.42'	5.5	2.0W	14	87	8	0.19
211225	07:42:22.56	40° 44.35'	112° 04.79'	6.3	0.6	13	91	4	0.06
211225	18:31:46.10	37° 25.70'	112° 59.34'	1.7*	1.4W	9	166	14	0.10
211226	07:09:29.31	38° 22.19'	112° 46.37'	3.2	1.7	9	224	9	0.03
211226	12:34:47.87	39° 08.10'	111° 38.84'	16.8	1.5	7	118	5	0.06
211226	19:33:11.44	37° 26.35'	112° 59.01'	1.7*	1.4W	13	162	16	0.19
211227	02:42:07.55	39° 36.16'	112° 01.94'	12.9	1.3	12	78	22	0.17
211227	03:42:10.58	37° 24.16'	112° 59.51'	3.7*	2.1W	11	88	13	0.10
211227	04:16:43.63	37° 25.10'	112° 59.40'	4.7*	1.4W	9	184	14	0.07

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211227	04:45:54.28	42° 17.89'	110° 12.58'	20.7*	--	10	174	69	0.15
211227	10:06:33.70	37° 18.55'	114° 10.19'	14.5	1.1	12	150	28	0.15
211227	14:09:04.35	37° 17.52'	114° 10.52'	12.1*	2.0W	11	155	27	0.18
211227	16:20:58.78	39° 25.70'	110° 20.02'	-1.3	1.2	5	104	1	0.03
211227	17:22:17.67	39° 25.57'	110° 18.36'	-2.2	2.0W	12	196	2	0.15
211227	20:49:15.92	39° 25.47'	110° 18.89'	-1.2	1.4	5	194	1	0.02
211227	21:11:40.22	39° 25.38'	110° 17.16'	-3.4	1.2	5	203	3	0.16
211227	21:21:05.23	39° 25.59'	110° 18.79'	-1.4	1.8	5	194	1	0.02
211227	21:34:57.84	38° 14.01'	112° 41.42'	0.8	1.6	7	177	7	0.03
211228	00:24:42.71	39° 25.65'	110° 19.46'	-1.2	1.2	5	175	0	0.03
211228	02:48:27.63	39° 25.52'	110° 18.77'	-1.4	2.1	7	194	1	0.08
211228	04:48:41.10	39° 25.55'	110° 18.15'	-2.2	1.7	7	197	2	0.07
211228	06:46:19.62	39° 25.49'	110° 17.44'	-3.4	2.1W	15	186	3	0.19
211228	08:20:52.19	39° 38.29'	111° 14.73'	-1.7	1.5	10	206	4	0.14
211228	18:57:13.48	39° 25.41'	110° 18.27'	-2.1	2.2	10	197	2	0.14
211228	21:21:03.88	37° 25.69'	112° 59.52'	2.1*	1.5W	8	185	14	0.13
211228	23:42:28.29	37° 26.14'	112° 59.24'	2.2*	1.4W	8	188	15	0.12
211229	01:46:41.42	37° 25.67'	112° 58.84'	1.9*	1.4W	13	167	15	0.13
211229	02:20:51.73	39° 25.14'	110° 17.30'	-3.4	1.5	9	203	3	0.13
211229	03:03:12.00	37° 06.96'	112° 56.31'	20.3	1.5W	11	261	30	0.14
211229	04:17:55.94	39° 25.20'	110° 17.20'	-3.4	1.8W	11	203	3	0.18
211229	08:07:16.72	37° 26.32'	112° 57.88'	-0.6*	2.8W	20	140	17	0.15
211229	12:11:53.49	41° 02.96'	111° 31.62'	12.2	1.8W	30	96	13	0.15
211229	12:12:34.17	39° 25.92'	110° 19.09'	-1.4	1.0	7	192	1	0.07
211230	20:38:19.32	37° 25.91'	112° 59.70'	2.1*	1.6W	7	185	14	0.06
211230	20:54:10.42	39° 25.58'	110° 17.89'	-2.8	2.2	6	199	2	0.09
211230	21:57:40.94	39° 25.53'	110° 18.72'	-1.5	1.6	5	194	1	0.02
211230	22:50:19.28	39° 25.42'	110° 17.75'	-2.8	1.5	5	200	3	0.06
211231	06:01:37.21	41° 48.07'	112° 22.63'	9.9	0.8	14	109	15	0.24
211231	06:42:59.55	41° 47.52'	112° 22.55'	5.0*	0.8	8	107	15	0.06
211231	09:01:23.35	41° 47.54'	112° 22.75'	4.4*	0.6	7	115	15	0.08
211231	21:21:02.59	38° 27.15'	112° 28.45'	6.8*	1.6W	12	165	18	0.07

number of earthquakes = 782

\* 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, 2021**

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

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

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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
DCM	Dugout Coal Mine, UT	EHZ	1	UU	39° 41.70'	110° 35.00'	2537	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	EHZ	1	UU	40° 24.82'	111° 31.61'	1829	L4C	PSN	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.61'	111° 57.65'	1282	EpiSensor	Etna2	Digital	ANSS
DUG	Dugway, UT	BH[ZEN]	3	US	40° 11.70'	112° 48.80'	1477	STS-2	Q330	Digital	USGS
DVCI	Devils Canyon, ID	HH[ZEN]	3	IE	44° 22.99'	114° 02.31'	1997	Trillium 120	Q330	Digital	INL
DWU	Dry Willow, UT	EHZ	1	UU	38° 06.32'	112° 59.85'	2270	S13	PSN	Analog	Utah
ECRI	Eagle Creek, ID	EHZ	1	IE	43° 03.24'	111° 22.26'	2086	*	*	Digital	INL
ECUT	Ebbs Canyon, Scipio, UT	HH[ZEN]	3	UU	39° 10.30'	112° 07.99'	2136	Trillium 120	Centaur	Digital	Utah
EKU	East Kanab, UT	EHZ	1	UU	37° 04.48'	112° 29.81'	1829	S13	PSN	Analog	Utah
ELE	East Layton Elementary School, East Layton, UT	EN[ZEN]	3	UU	41° 04.84'	111° 55.09'	1444	EpiSensor	Etna2	Digital	ANSS
ELK	Elko, NV	BH[ZEN]	3	US	40° 44.69'	115° 14.33'	2210	*	*	Digital	USGS
ELU	Electric Lake, UT	EHZ	1	UU	39° 38.41'	111° 12.23'	2970	L4C	PSN	Analog	Utah
EMF	Eagle Mountain Gas Tap, UT	EN[ZEN]	3	UU	40° 16.89'	111° 59.92'	1487	EpiSensor	Etna2	Digital	ANSS
EMU	Emma Park, UT	EH[ZEN]	3	UU	39° 48.84'	110° 48.92'	2268	S13	PSN	Analog	USGS
		EN[ZEN]	3					FBA23	K2	Digital	Utah
EOCU	EOC, State Capitol Campus, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.62'	111° 53.95'	1356	EpiSensor	Basalt	Digital	Utah
EPU	East Promontory, UT	EHZ	1	UU	41° 23.49'	112° 24.53'	1436	L4C	PSN	Analog	USGS
ETW	Elwood Town Hall, Elwood, UT	EN[ZEN]	3	UU	41° 40.15'	112° 08.53'	1305	EpiSensor	Etna2	Digital	ANSS
FLU	Fool's Peak, UT	EHZ	1	UU	39° 22.69'	112° 10.29'	1951	18300	Basalt	Digital	USGS
		EN[ZEN]	3								
FLWY	Flagg Ranch, WY	BH[ZEN]	3	IW	44° 04.96'	110° 41.96'	2078	3ESP	RT-130	Digital	ANSS
FMC	FMC Mine, Green River, WY	HH[ZEN]	3	UU	41° 24.49'	109° 46.67'	1903	40T	RT-130	Digital	Utah
FOR1	Milford Southwest, UT	HH[ZEN]	3	UU	38° 22.13'	113° 05.63'	1642	Trillium 120	Centaur	Digital	Utah
FOR2	Blundell East, UT	HH[ZEN]	3	UU	38° 29.70'	112° 52.34'	1760	Trillium 120	Centaur	Digital	Utah
FOR3	Blundell North, UT	HH[ZEN]	3	UU	38° 30.80'	112° 52.85'	1699	Trillium 120	ANSS-130	Digital	Utah
		EN[ZEN]	3								
FOR4	Blundell West, UT	HH[ZEN]	3	UU	38° 29.92'	112° 53.79'	1657	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



SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
FPU	Francis Peak, UT	EHZ	1	UU	41° 01.58'	111° 50.21'	2816	L4C	PSN	Analog	USGS
FSB1	FORGE surface borehole 1, UT	DN[12Z]	3	UU	38° 29.10'	112° 53.48'	1697	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSB2	FORGE surface borehole 2, UT	DN[12Z]	3	UU	38° 30.44'	112° 54.98'	1587	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSB3	FORGE surface borehole 3, UT	DN[12Z]	3	UU	38° 30.80'	112° 52.84'	1701	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSU	Fish Springs, UT	EHZ	1	UU	39° 43.35'	113° 23.48'	1487	18300	PSN	Analog	Utah
FTT	Fire Training Tower, Magna, UT	EN[ZEN]	3	UU	40° 41.16'	112° 04.99'	1381	EpiSensor	Etna2	Digital	ANSS
GAWY	Genesis Alkali Granger, WY	HH[ZEN]	3	UU	41° 44.43'	109° 51.13'	2011	Trillium 120	Centaur	Digital	Utah
GBI	Big Grassy Butte, ID	HH[ZEN]	3	IE	43° 59.22'	112° 03.78'	1541	*	*	Digital	INL
GCAZ	Grand Canyon, AZ	EHZ	1	AR	36° 03.51'	112° 11.02'	2072	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	EN[ZEN]	3	UU	40° 36.04'	112° 28.48'	1320	EpiSensor	Etna2	Digital	ANSS
GMU	Granite Mountain, UT	EH[ZEN]	3	UU	40° 34.53'	111° 45.79'	1829	S13	PSN	Analog	USGS
GRR1	Grays Lake, ID	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INL
GZU	Grizzly Peak, UT	EH[ZEN]	3	UU	41° 25.53'	111° 58.50'	2646	S13	PSN	Analog	USGS
HAFB	Hill Air Force Base, Hill AFB, UT	EN[ZEN]	3	UU	41° 07.07'	111° 58.55'	1471	EpiSensor	Etna2	Digital	Utah
HCSU	Hobble Creek, Springville, UT	EHZ	1	UU	40° 12.40'	111° 30.14'	1789	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
HDU	Hyde Park, UT	EHZ	1	UU	41° 48.18'	111° 45.99'	1807	L4C	PSN	Analog	USGS
HEB	Heber, UT	EHZ	1	UU	40° 30.09'	111° 20.15'	1925	S13	PSN	Analog	Utah
HER	Herriman Fire Station Herriman, UT	EN[ZEN]	3	UU	40° 30.94'	112° 01.85'	1502	EpiSensor	Etna2	Digital	ANSS
HES	Hooper Elementary School Hooper, UT	EN[ZEN]	3	UU	41° 09.89'	112° 07.30'	1292	EpiSensor	K2	Digital	ANSS
HHAI	Hell's Half Acre, ID	HH[Z12]	3	IE	43° 17.70'	112° 22.74'	1371	*	*	Digital	INL
HHS	Hurricane High School, UT	EN[ZEN]	3	UU	37° 10.43'	113° 17.74'	987	EpiSensor	Etna2	Digital	Utah
HLID	Hailey, ID	BH[ZEN]	3	US	43° 33.75'	114° 24.83'	1772	*	*	Digital	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
HLJ	Hailstone, UT	EHZ	1	UU	40° 36.64'	111° 24.05'	1931	S13	PSN	Analog	Utah
		EN[ZEN]	3					FBA23	K2	Digital	
HMU	Henry Mountain, UT	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
HRU	Hogsback Ridge, UT	EHZ	1	UU	40° 47.67'	111° 53.14'	1620	L4C	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Obsidian	Digital	ANSS
HTU	Hoyt, UT	EHZ	1	UU	40° 40.52'	111° 13.21'	2576	L4C	PSN	Analog	USGS
		EHZ	1						EpiSensor	Basalt	
		EN[ZEN]	3								
HVU	Hansel Valley, UT	HH[ZEN]	3	UU	41° 46.78'	112° 46.50'	1609	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			
HWUT	Hardware Ranch, UT	BH[ZEN]	3	US	41° 36.41'	111° 33.91'	1830	*	*	Digital	USGS
IAE	Cedar City, Iron County Adult Education, UT	EN[ZEN]	3	UU	37° 39.91'	113° 40.02'	1807	EpiSensor	Etna	Digital	Utah
ICF	International Center Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.69'	112° 01.72'	1281	EpiSensor	Etna2	Digital	ANSS
ICU	Indian Springs Canyon, UT	EHZ	1	UU	37° 08.98'	113° 55.41'	1451	S13	PSN	Analog	Utah
IMU	Iron Mountain, UT	EHZ	1	UU	38° 37.99'	113° 09.50'	1833	L4C	PSN	Analog	Utah
IMW	Indian Meadows, WY	BH[ZEN]	3	IW	43° 53.58'	110° 56.58'	2670	3ESP	RT-130	Digital	ANSS
ISCO	Idaho Springs, CO	BH[ZEN]	3	US	39° 47.98'	105° 36.80'	2743	STS-2	Q330	Digital	ANSS
JRP	Jordan River State Park Salt Lake City, UT	EN[ZEN]	3	UU	40° 49.54'	111° 56.66'	1284	EpiSensor	Etna2	Digital	ANSS
JVW2	Murray City Parkway Golf Course, Murray, UT	EN[ZEN]	3	UU	40° 37.90'	111° 55.15'	1310	EpiSensor	Etna2	Digital	ANSS
KEUT	Kanab Elementary School, UT	EN[ZEN]	3	UU	37° 03.02'	112° 31.76'	1514	PA-23	SMART-24	Digital	Utah
KLJ	Keetley, UT	EHZ	1	UU	40° 37.85'	111° 24.30'	1992	S13	PSN	Analog	Utah
KNB	Kanab, UT	HH[ZEN]	3	UU	37° 01.00'	112° 49.34'	1715	Trillium 120	Centaur	Digital	Utah, ANSS, LLNL
		EN[ZEN]	3					EpiSensor			
LCMT	Little Creek Mountain, UT	HH[ZEN]	3	UU	37° 00.71'	113° 14.63'	1411	3T	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
		EN[ZEN]	3								
LCU	Little Cottonwood, UT	EN[ZEN]	3	UU	40° 34.41'	111° 47.91'	1571	EpiSensor	Etna2	Digital	ANSS
LDJ	Lady, UT	EHZ	1	UU	40° 34.89'	111° 24.52'	2217	S13	PSN	Analog	Utah
LEVU	Levan, UT	EHZ	1	UU	39° 30.39'	111° 48.88'	1996	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
LGC	Lakeside Golf Course Bountiful, UT	EN[ZEN]	3	UU	40° 54.04'	111° 54.51'	1292	EpiSensor	Etna2	Digital	ANSS
LHUT	Little Humpy Peak, UT	EHZ	1	UU	40° 53.49'	110° 59.78'	3084	S13	PSN	Analog	Utah
LIUT	Lila Canyon, UT	HH[ZEN]	3	UU	39° 25.45'	110° 19.51'	2178	Trillium 120	Centaur	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
LKC	Lee Kay Hunter Education Center Magna, UT	EN[ZEN]	3	UU	40° 43.62'	112° 02.14'	1289	EpiSensor	Etna2	Digital	ANSS
LKWY	Lake, WY	BH[ZEN]	3	US	44° 33.91'	110° 24.00'	2424	*	*	Digital	USGS
LMUT	Lake Mountain, UT	EN[ZEN]	3	UU	40° 15.69'	111° 55.69'	2330	EpiSensor	Etna2	Digital	ANSS
LOHW	National Elk Refuge, WY	BH[ZEN]	3	IW	43° 36.76'	110° 36.30'	2245	3ESP	RT-130	Digital	ANSS
LRG	Logan River Golf Course Logan, UT	EN[ZEN]	3	UU	41° 42.82'	111° 51.08'	1362	EpiSensor	Etna2	Digital	ANSS
LSU	Lake Shores, UT	EN[ZEN]	3	UU	40° 07.94'	111° 43.80'	1375	EpiSensor	Etna2	Digital	ANSS
LTU	Little Mountain, UT	EHZ	1	UU	41° 35.51'	112° 14.83'	1585	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
MAB	Mapleton Ambulance Building Mapleton, UT	EN[ZEN]	3	UU	40° 07.85'	111° 34.67'	1440	EpiSensor	Etna2	Digital	ANSS
MCID	Moose Creek, ID	EHZ	1	WY	44° 11.45'	111° 11.03'	2137	L4C	PSN	Analog	USGS
MCU	Monte Cristo Peak, UT	EHZ	1	UU	41° 27.70'	111° 30.45'	2664	18300	PSN	Analog	USGS
MGCU	Grand County Courthouse, Moab, UT	EN[ZEN]	3	UU	38° 34.46'	109° 32.89'	1241	EpiSensor	K2	Digital	Utah
MHD	Mile High Drive, UT	EHZ	1	UU	40° 39.64'	111° 48.05'	1597	Ranger	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
MHS2	Milford High School, UT	EN[ZEN]	3	UU	38° 23.97'	113° 00.78'	1529	EpiSensor	Etna2	Digital	Utah
MID	Middle Canyon, UT	EN[ZEN]	3	UU	40° 31.04'	112° 15.28'	1722	EpiSensor	Etna2	Digital	ANSS
MLI	Malad Range, ID	EHZ	1	UU	42° 01.61'	112° 07.53'	1896	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
MMU	Miners Mountain, UT	EHZ	1	UU	38° 11.57'	111° 17.66'	2387	S13	PSN	Analog	Utah
MOMT	Monida, MT	EHZ	1	MB	44° 35.60'	112° 23.66'	2220	*	*	Analog	MBMT
MOOW	Moose Ponds, WY	BH[ZEN]	3	IW	43° 44.92'	110° 44.69'	2128	3ESP	RT-130	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	EHZ	1	UU	41° 11.94'	111° 52.73'	2743	S13	PSN	Analog	USGS
MPU	Maple Canyon, UT	EN[ZEN]	3	UU	40° 00.93'	111° 38.00'	1909	EpiSensor	Centaur	Digital	ANSS USGS
		HH[ZEN]	3					Observer			
MSU	Marysvale, UT	EHZ	1	UU	38° 30.74'	112° 10.63'	2105	18300	PSN	Analog	Utah
MTPU	Mt. Pierson, UT	EN[ZEN]	3	UU	38° 02.49'	112° 11.06'	3112	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
MTUT	Morton Thiokol, UT	EHZ	1	UU	41° 42.55'	112° 27.28'	1373	L4C	PSN	Analog	USGS
MVCO	Mesa Verde, CO	BH[ZEN]	3	US	37° 12.62'	108° 29.92'	2170	STS-2	Q330	Digital	ANSS
MVU	Marysvale, UT	BH[ZEN]	3	LB	38° 30.22'	112° 12.74'	2240	*	*	Digital	Sandia
NAI	North Antelope Island, UT	EN[ZEN]	3	UU	41° 00.97'	112° 13.68'	1472	EpiSensor	Etna2	Digital	ANSS
NAIU	North Antelope Island, UT	EHZ	1	UU	41° 00.97'	112° 13.68'	1472	L4C	PSN	Analog	USGS

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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
PV21	Cone Mountain, Paradox Basin, CO	HH[ZEN]	3	RE	38° 33.67'	108° 58.50'	2235	*	*	Digital	USBR
Q12A	Willow Creek Ranch, Ely, NV	HH[ZEN]	3	NN	39° 02.40'	114° 19.88'	1625	Trillium 120	Q330	Digital	UNR
QBHW	Bridle Trail Rd, Draper, UT	HN[ZEN]	3	UU	40° 30.23'	111° 51.35'	1400	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCSP	White Pine Dr., Tooele, UT	HN[ZEN]	3	UU	40° 32.75'	112° 16.56'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCWC	E 2100 S, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.54'	111° 49.94'	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QDPS	Dept of Public Safety Univ. of Utah, Salt Lake City, UT	HN[ZEN]	3	UU	40° 45.60'	111° 50.46'	1460	Gsig-AC63	Gsig-GMS	Digital	ANSS
QFTG	N 450 E St., Springville, UT	HN[ZEN]	3	UU	40° 10.42'	111° 36.12'	1395	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJHW	Red Rock Ranch, Teton County, WY	HN[ZEN]	3	UU	43° 34.99'	110° 24.65'	2169	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJMH	S 900 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 42.21'	111° 51.97'	1312	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJOT	Whileaway Rd., Snyderville, UT	HN[ZEN]	3	UU	40° 44.50'	111° 41.68'	1977	Gsig-AC63	Gsig-GMS	Digital	ANSS
QKSL2	Lehi, UT	HN[ZEN]	3	UU	40° 15.98'	111° 50.07'	1371	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLIN	884 E 490 N, Lindon, UT	HN[ZEN]	3	UU	40° 20.83'	111° 29.63'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLMT	Earthquake Lake, MT	EHZ	1	MB	44° 49.84'	111° 25.80'	2064	*	*	Analog	MBMT
QMDS	S 2600 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.74'	111° 48.97'	1405	Gsig-AC63	Gsig-GMS	Digital	ANSS
QNRL	E 500 N, Logan, UT	HN[ZEN]	3	UU	40° 44.44'	111° 49.49'	1407	Gsig-AC63	Gsig-GMS	Digital	ANSS
QOGD	1723 N 900 E, North Ogden, UT	HN[ZEN]	3	UU	41° 17.38'	111° 57.11'	1361	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPAY	N 300 E Payson, UT	HN[ZEN]	3	UU	40° 03.18'	111° 43.70'	1404	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPML	S Whitesides St., Layton, UT	HN[ZEN]	3	UU	40° 03.47'	111° 57.23'	1334	Gsig-AC63	Gsig-GMS	Digital	ANSS
QRJG	N 1450 E, Provo, UT	HN[ZEN]	3	UU	40° 15.65'	111° 37.96'	1530	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSAR2	Saratoga Springs, UT	HN[ZEN]	3	UU	40° 20.17'	111° 55.43'	1420	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSPA	520 S, Spanish Fork, UT	HN[ZEN]	3	UU	40° 17.47'	111° 52.95'	1413	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSTV	S City Vistas Way, Kearns, UT	HN[ZEN]	3	UU	40° 40.25'	112° 02.18'	1416	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSUN	1412 N 350 W, Sunset, UT	HN[ZEN]	3	UU	41° 08.04'	112° 01.97'	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QUGS	240 N Redwood Road, SLC, UT	HN[ZEN]	3	UU	40° 46.45'	111° 56.32'	1300	Gsig-AC63	Gsig-GMS	Digital	ANSS
R11B	Troy Canyon, Currant, NV	HH[ZEN]	3	NN	38° 20.93'	115° 35.12'	1756	STS-5A	Q330	Digital	UNR
RBU	Red Butte Canyon, UT	EHZ	1	UU	40° 46.85'	111° 48.50'	1676	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
RCJ	Ross Creek, UT	EHZ	1	UU	40° 39.51'	111° 26.36'	2090	S13	PSN	Analog	Utah
RDMU	Red Mountain, UT	HH[ZEN]	3	UU	40° 34.25'	109° 34.17'	2087	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
REDW	Red-Top Meadows, WY	BH[ZEN]	3	IW	43° 21.74'	110° 51.18'	2322	3ESP	RT-130	Digital	ANSS
REUT	Washington Fields, Riverside Elementary School, UT	EN[ZEN]	3	UU	37° 05.86'	113° 31.16'	791	PA-23	SMART-24	Digital	Utah
RLMT	Red Lodge, MT	BH[12Z]	3	US	45° 07.33'	109° 16.04'	2086	STS-2	Q330	Digital	ANSS
ROA	Roan Cliffs, UT	EHZ	1	UU	39° 39.69'	110° 21.88'	2962	S13	PSN	Analog	Utah
RPF	Rose Park Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.52'	111° 55.22'	1287	Applied Mems	ANSS-130	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
RRCU	Rees Ranch, Coalville, UT	EHZ	1	UU	40° 53.21'	111° 26.22'	2028	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
RSUT	Red Spur, UT	EHZ	1	UU	41° 38.31'	111° 25.90'	2682	S13	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
RWWY	Rawlins, WY	BH[ZEN]	3	IW	41° 41.33'	107° 12.61'	2402	3ESP	RT-130	Digital	ANSS
SAIU	South Antelope Island, UT	EHZ	1	UU	40° 51.29'	112° 10.89'	1384	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SCC	Salt Lake Community College, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 40.49'	111° 56.37'	1306	EpiSensor	Etna2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	EN[ZEN]	3	UU	41° 05.73'	112° 02.81'	1321	EpiSensor	Etna2	Digital	ANSS
SCUT	Santa Clara, UT	EN[ZEN]	3	UU	37° 07.69'	113° 38.68'	837	EpiSensor	Etna2	Digital	Utah
SCY	Salem City Yard, Salem, UT	EN[ZEN]	3	UU	40° 03.47'	111° 41.14'	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	EHZ	1	UU	39° 10.94'	111° 38.68'	2357	18300	PSN	Analog	USGS
SHP	Sheep Range, NV	HH[ZEN]	3	NN	36° 30.33'	115° 09.61'	1590	Trillium 120	ANSS-130	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	EN[ZEN]	3	UU	40° 33.37'	111° 56.34'	1356	EpiSensor	Obsidian	Digital	ANSS
SKII	Z, ID	HH[ZEN]	3	IE	43° 19.21'	111° 55.79'	2082	*	*	Digital	INL
SMAZ	Slide Mountain, AZ	EHZ	1	AR	36° 19.29'	113° 10.14'	2200	*	*	Analog	NAU
SNO	Snow College, UT	EHZ	1	UU	39° 19.18'	111° 32.33'	2503	Ranger	PSN	Analog	Utah
SNOW	Snowking Mountain, WY	BH[ZEN]	3	IW	43° 27.75'	110° 45.31'	2390	3ESP	RT-130	Digital	ANSS
SNUT	Stansbury North, UT	EHZ	1	UU	40° 53.10'	112° 30.52'	1652	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SPR2	Wildlife Resource Center Springville, UT	EN[ZEN]	3	UU	40° 10.95'	111° 36.69'	1382	EpiSensor	Etna2	Digital	ANSS
SPR3	Spring Creek 3, NV	HH[ZEN]	3	NN	38° 59.93'	114° 19.88'	2815	Trillium 120	RT-130	Digital	UNR
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	EN[ZEN]	3	UU	40° 38.97'	112° 18.95'	1293	EpiSensor	Etna2	Digital	ANSS
SPU	South Promontory Point, UT	EN[ZEN]	3	UU	41° 18.52'	112° 26.95'	2086	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
SRU	San Rafael Swell, UT	EHZ	1	UU	39° 06.65'	110° 31.43'	1804	S13	PSN	Analog	Utah, ANSS, IRIS
		HH[ZEN]	3					EpiSensor	ANSS-130	Digital	
		EN[ZEN]	3								
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	EHZ	1	UU	39° 53.29'	111° 47.45'	2024	18300	PSN	Analog	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SVWY	Solvay Mine, WY	HH[ZEN]	3	UU	41° 27.02'	109° 51.88'	1950	Trillium 120	Centaur	Digital	Utah
SWUT	Soap Wash, Delta, UT	EN[ZEN]	3	UU	39° 19.72'	113° 11.72'	1644	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
SZCU	Shurtz Canyon, UT	HH[ZEN]	3	UU	37° 35.72'	113° 05.25'	2026	3T	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
TCMU	Timpanogos Cave Mouth, UT	EHZ	1	UU	40° 26.26'	111° 42.71'	2045	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
TCRU	Three Creeks Reservoir, UT	HH[ZEN]	3	UU	38° 36.57'	112° 26.83'	2293	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
TCU	Toone Canyon, UT	EN[ZEN]	3	UU	41° 07.04'	111° 24.47'	2269	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
TCUT	Toone Canyon, UT	EHZ	1	UU	41° 07.07'	111° 24.51'	2320	L4C	PSN	Analog	USGS
TMI	Taylor Mountain, ID	EHZ	1	IE	43° 18.30'	111° 55.08'	2179	*	*	Digital	INL
TMU	Trail Mountain, UT	HH[ZEN]	3	UU	39° 17.79'	111° 12.49'	2731	Observer	ANSS-130	Digital	Utah, ANSS
		EN[ZEN]	3					EpiSensor			
TPAW	Teton Pass, WY	BH[ZEN]	3	IW	43° 29.41'	110° 57.04'	2512	3ESP	RT-130	Digital	ANSS
TPH	Tonopah, NV	BH[ZEN]	3	LB	38° 04.50'	117° 13.35'	1883	3ESP	Q330	Digital	Sandia
TPMT	Teepee Creek, MT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	BH[ZEN]	3	US	36° 56.93'	116° 14.97'	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	EN[ZEN]	3	UU	40° 25.81'	111° 54.13'	1383	EpiSensor	Etna2	Digital	ANSS
TRS	Tooele County Radio Shop, Tooele, UT	EN[ZEN]	3	UU	40° 30.83'	112° 18.63'	1568	EpiSensor	Etna2	Digital	ANSS
U15A	North Rim, AZ	BH[ZEN]	3	AE	36° 25.80'	112° 17.40'	2489	Trillium 240	Q330	Digital	AZGS
UHP	Utah Highway Patrol Farmington, UT	EN[ZEN]	3	UU	40° 59.47'	111° 53.88'	1295	EpiSensor	Etna2	Digital	ANSS
UTH	Uintah Town Hall, Uintah, UT	EN[ZEN]	3	UU	41° 08.65'	111° 55.52'	1389	EpiSensor	Etna2	Digital	ANSS
UUE	University of Utah EMCB Bldg. Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.09'	111° 50.77'	1449	EpiSensor	Etna2	Digital	ANSS
V12A	Nelson, NV	HH[ZEN]	3	NN	35° 44.00'	114° 51.07'	1098	Trillium 120	Q330	Digital	UNR
VEC	Valley Emergency Communications Center West Valley City, UT	EN[ZEN]	3	UU	40° 39.21'	112° 01.95'	1480	EpiSensor	Basalt	Digital	ANSS
VNL	Vernal, UT	EN[ZEN]	3	UU	40° 27.48'	109° 32.89'	1648	EpiSensor	Obsidian	Digital	Utah
VRUT	Veyo Road, Veyo, UT	HH[ZEN]	3	UU	37° 27.71'	113° 51.41'	1874	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
W13A	Hualapai Mountain Park, Kingman, AZ	BH[ZEN]	3	AE	35° 06.00'	113° 53.40'	1988	3T	Q330	Digital	AZGS
WBC	Weber Canyon, UT	EN[ZEN]	3	UU	41° 08.38'	111° 54.05'	1602	EpiSensor	Etna2	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
WCF	Wellsville Fire Station, Wellsville, UT	EN[ZEN]	3	UU	41° 38.37'	111° 55.94'	1387	EpiSensor	Etna2	Digital	ANSS
WCO	Washington City Office Building, UT	EN[ZEN]	3	UU	37° 07.91'	113° 30.56'	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	EHZ	1	UU	38° 57.88'	112° 05.44'	2673	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WDO	Saint George, Washington County School District Office, UT	EN[ZEN]	3	UU	37° 06.46'	113° 35.19'	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.97'	111° 51.26'	1341	EpiSensor	Etna2	Digital	ANSS
WHS	West High School, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.51'	111° 53.93'	1301	EpiSensor	Etna2	Digital	ANSS
WMUT	West Mountain, UT	EHZ	1	UU	40° 04.60'	111° 50.00'	1981	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WPUT	Wasatch Plateau, UT	HH[ZEN]	3	UU	38° 59.85'	111° 21.53'	2618	Trillium 120	Taurus	Digital	Utah
WRP	Water Reclamation Plant Salt Lake City, UT	EN[ZEN]	3	UU	40° 48.82'	111° 55.87'	1286	EpiSensor	Etna2	Digital	ANSS
WTNK	7433 Soaring Heights, NV	HH[ZEN]	3	NN	36° 11.50'	115° 00.64'	676	3ESP	ANSS-130	Digital	UNR
WTU	Western Traverse Mountains, UT	EH[ZEN]	3	UU	40° 27.29'	111° 57.21'	1552	S13	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Etna2	Digital	
WUAZ	Wupatki, AZ	BH[ZEN]	3	US	35° 31.01'	111° 22.43'	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	EHZ	1	UU	41° 36.61'	111° 57.55'	1828	L4C	PSN	Analog	USGS
YDC	Denny Creek, MT	EHZ	1	WY	44° 42.51'	111° 14.60'	2025	L4C	PSN	Analog	USGS
YDD	Grant Junction, Yellowstone, WY	HH[ZEN]	3	WY	44° 24.00'	110° 34.80'	2400	STS-2	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			
YEE	East Entrance (YNP), WY	HH[ZEN]	3	WY	44° 29.12'	109° 53.81'	2270	Compact	Centaur	Digital	USGS
YFT	Old Faithful (YNP), WY	HH[ZEN]	3	WY	44° 27.05'	110° 50.24'	2292	Compact	Centaur	Digital	USGS
		EN[ZEN]	3					Titan			
YGC	Grayling Creek, MT	EHZ	1	WY	44° 47.77'	111° 06.45'	2075	L4C	PSN	Analog	USGS
YHB	Horse Butte, MT	EHZ	1	WY	44° 45.07'	111° 11.71'	2157	L4C	PSN	Analog	USGS
		HH[ZEN]	3					Compact	ANSS-130	Digital	
		EN[ZEN]	3								
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3								
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



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

\* Station operated by another agency and recorded as part of University of Utah regional seismic network  
Network Statistics: 1012 data channels from 349 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](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](http://www.iris.edu/dms/nodes/dmc/services/network_codes)>> for information about registered seismograph network codes. Network codes referenced in this table:

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

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

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

**Elevation:** Sensor altitude in meters above sea level.

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

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

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

<b>Telemetry</b>	<b>Description</b>
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, 2021**

October 19	FOR6 HH[ZEN] installed
October 21	FOR8 HH[ZEN] installed
October 25	FOR7 HH[ZEN] installed