

# **EARTHQUAKE ACTIVITY IN THE UTAH REGION**

Preliminary Epicenters

January 1 – March 31, 2019

Prepared by the University of Utah Seismograph Stations and funded by  
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## 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 MST through 02:00 (2:00 a.m.) on March 10 and MDT 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**

### **January 1 – March 31, 2019**

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During the three-month period January 1, 2019, through March 31, 2019, the University of Utah Seismograph Stations (UUSS) located 968 earthquakes within the Utah region (Figure 1). The total includes two earthquakes in the magnitude 4 range, 11 earthquakes in the magnitude 3 range, and 115 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. Fourteen earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2019 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> 3.1	January 8	17:46 MST	12 mi SSE of Saint George, UT
M <sub>L</sub> 3.0	January 8	18:06 MST	12 mi SSE of Saint George, UT
M <sub>L</sub> 3.8	January 16	15:00 MST	9 mi SW of Enterprise, UT
M <sub>L</sub> 3.2	February 15	05:02 MST	2 mi S of Bluffdale, UT
M <sub>L</sub> 3.7	February 15	05:09 MST	2 mi S of Bluffdale, UT
M <sub>L</sub> 3.3	February 16	15:05 MST	6 mi SSW of Kanosh, UT
M <sub>L</sub> 4.0	February 20	00:05 MST	6 mi SSW of Kanosh, UT
M <sub>L</sub> 3.0	February 22	12:53 MST	19 mi WNW of Green River, WY
M <sub>L</sub> 3.0	February 22	12:55 MST	19 mi WNW of Green River, WY
M <sub>L</sub> 3.1	February 23	02:31 MST	1 mi SSW of Bluffdale, UT
M <sub>L</sub> 3.0	March 3	09:10 MST	9 mi SW of Enterprise, UT
M <sub>L</sub> 4.5	March 4	10:22 MST	11 mi SW of Uravan, CO
M <sub>L</sub> 3.0	March 7	08:35 MST	12 mi SE of Minersville, UT

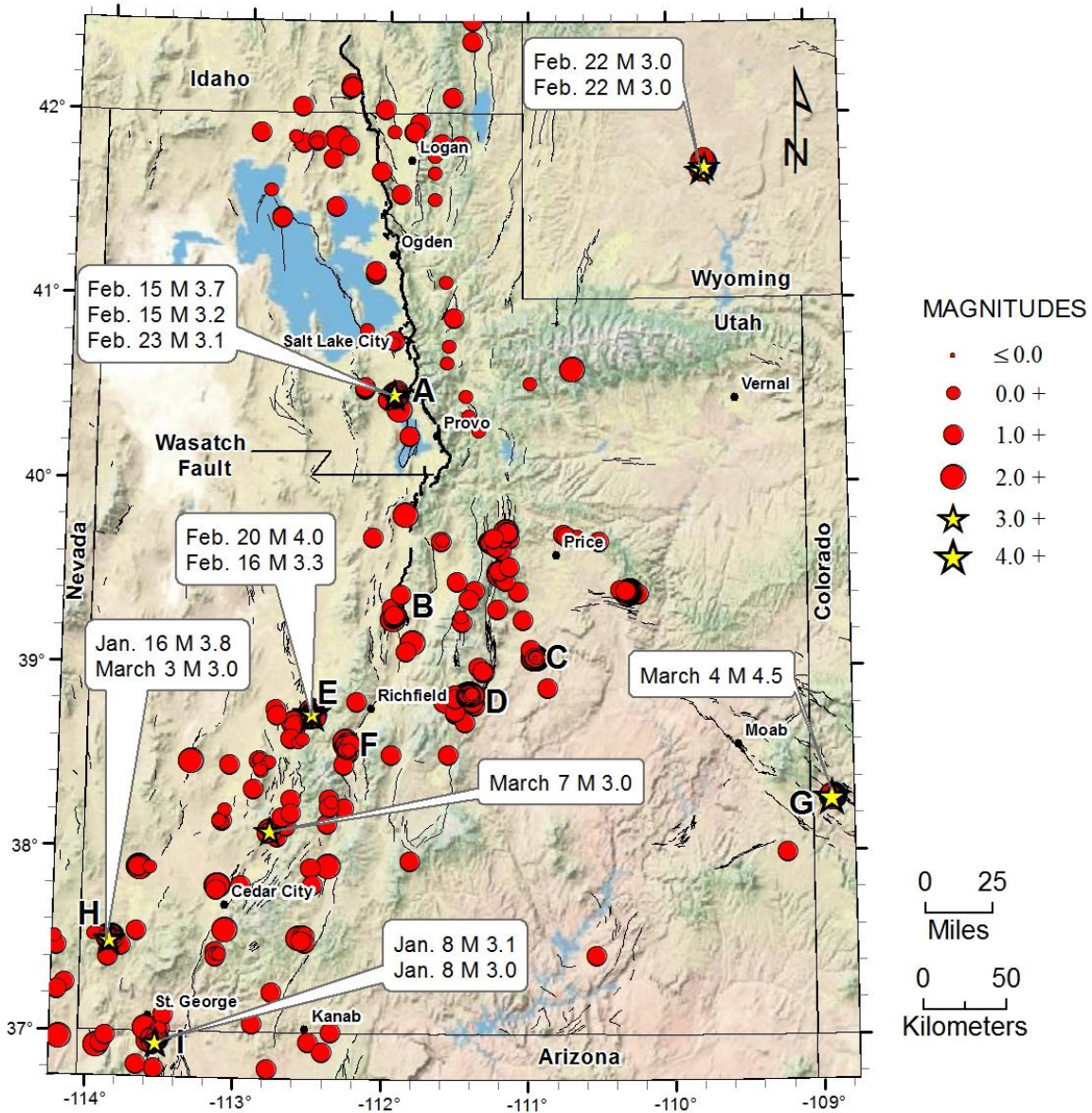
## Other Notable Seismicity

During the report period, there were nine 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 191 earthquakes ( $0.1 \leq M \leq 3.7$ ) occurred about 3 mi SSE of Bluffdale, UT. 139 of these events, including a magnitude 3.7 shock, occurred between February 13 and February 25.
- B. A cluster of 17 earthquakes ( $1.0 \leq M \leq 2.3$ ) occurred about 10 mi NW of Gunnison, UT. Seven of these events, including a magnitude 2.3 shock, occurred between March 20 and March 21.
- C. A cluster of 109 earthquakes ( $0.7 \leq M \leq 2.8$ ) occurred about 12 mi ESE of Ferron, UT. 66 of these events, including a magnitude 2.8 shock, occurred between March 13 and March 19.
- D. A cluster of 214 earthquakes ( $0.7 \leq M \leq 2.7$ ) occurred about 11 mi SW of Emery, UT. 53 of these events, including a magnitude 2.7 shock, occurred between February 23 and February 28.
- E. A cluster of 31 earthquakes ( $0.9 \leq M \leq 4.0$ ) occurred about 6 mi SSW of Kanosh, UT. Seventeen of these events, including a magnitude 4.0 shock, occurred on February 20.
- F. A cluster of 19 earthquakes ( $0.8 \leq M \leq 2.9$ ) occurred about 3 mi SSE of Sevier, UT. Five of these events, including a magnitude 2.9 shock, occurred on January 2.
- G. A cluster of 21 earthquakes ( $1.4 \leq M \leq 4.5$ ) occurred about 12 mi SW of Uravan, CO. Seven of these events, including a magnitude 4.5 shock, occurred on March 4.
- H. A cluster of 51 earthquakes ( $0.2 \leq M \leq 3.8$ ) occurred about 9 mi SW of Enterprise, UT. Sixteen of these events, including a magnitude 3.8 shock, occurred between January 16 and January 19.
- I. A cluster of 25 earthquakes ( $0.5 \leq M \leq 3.1$ ) occurred about 12 mi SSE of Saint George, UT. Seven of these events, including a magnitude 3.1 shock, occurred on January 9.

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 124 located shocks ( $0.6 \leq M \leq 2.3$ ) that occurred during the report period

# Seismicity of the Utah Region Jan 1, 2019 - March 31, 2019



**Figure 1.** Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey (black lines). 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–I are discussed in the text.

**Table 1**

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

**January 1, 2019 to December 31, 2019**

<b>Date</b>	<b>Time†</b>	<b>Felt Information‡</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Magnitude§</b>
January 2	08:47 MST 15:47 UTC	Utah. <i>CIIM</i> . Felt (II) at Joseph and Sevier, UT.	38° 34.67'	112° 15.55'	M <sub>L</sub> 2.9
January 8 January 9	18:46 MST 01:46 UTC	Utah. <i>CIIM</i> . Felt (III) Saint George, UT.	36° 56.30'	113° 30.96'	M <sub>L</sub> 3.1
January 16	15:00 MST 22:00 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt (III) at Central, UT and (II) at Saint George, Ivins, Santa Clara, and Washington, UT.	37° 29.68'	113° 50.95'	M <sub>L</sub> 3.8
February 15	05:02 MST 12:02 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt (IV) at Riverton and Eagle Mountain, UT, (III) at Draper, Lehi, Herriman, and South Jordan, UT, and (II) at Midvale, Alpine, and West Jordan, UT.	40° 27.85'	111° 56.66'	M <sub>L</sub> 3.2
February 15	05:09 MST 12:09 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt (IV) at Riverton, Draper, Lehi, Herriman, and Eagle Mountain, UT, (III) at South Jordan, Saratoga Springs, and American Fork, UT, and (II) at Midvale, West Jordan, and Pleasant Grove, UT.	40° 27.79'	111° 56.88'	M <sub>L</sub> 3.7
February 16	15:05 MST 22:05 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt (II) at Filmore, UT.	38° 43.92'	112° 29.63'	M <sub>L</sub> 3.3
February 20	00:05 MST 07:05 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt (IV) at Filmore, UT, (III) at Richfield, UT, and (II) at Monroe, UT.	38° 44.25'	112° 29.79'	M <sub>L</sub> 4.0
February 20 February 21	20:08 MST 03:08 UTC	Utah. <i>CIIM</i> . Felt (III) at Draper, Lehi, Herriman, and South Jordan, UT, and (II) at Riverton and Saratoga Springs, UT.	40° 28.12'	111° 56.61'	M <sub>L</sub> 2.5

<b>Date</b>	<b>Time†</b>	<b>Felt Information‡</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Magnitude§</b>
February 23	02:31 MST 09:31 UTC	Utah. <i>CIIM</i> . <i>ShakeMap</i> . Felt ((III) at Riverton, Draper, Lehi, Herriman, American Fork, and Salt Lake City, UT, and (II) at Orem and Magna, UT.	40° 28.46'	111° 56.98'	M <sub>L</sub> 3.1
February 24	01:31 MST 08:31 UTC	Utah. <i>CIIM</i> . Felt ((III) at Cedar City, UT.	37° 47.85'	113° 07.77'	M <sub>L</sub> 2.9
March 3	09:10 MST 16:10 UTC	Utah. <i>CIIM</i> . Felt ((II) at Saint George and Dammeron Valley, UT.	37° 29.62'	113° 50.96'	M <sub>L</sub> 3.0
March 4	10:22 MST 17:22 UTC	Utah. <i>CIIM</i> . Felt ((III) at Moab and Blanding, UT and (II) at Thomson, UT.	38° 16.82'	108° 54.66'	M <sub>w</sub> 4.5
March 5	01:04 MST 08:04 UTC	Utah. <i>CIIM</i> . Felt ((III) at Riverton, Draper, and Herriman, UT and (II) at Lehi, South Jordan, and American Fork, UT.	40° 28.18'	111° 56.62'	M <sub>L</sub> 2.5
March 15 March 16	23:28 MDT 05:28 UTC	Utah. <i>CIIM</i> . Felt ((III) at Ferron, UT and (II) at Huntington, UT.	39° 02.41'	110° 56.51'	M <sub>L</sub> 2.8

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

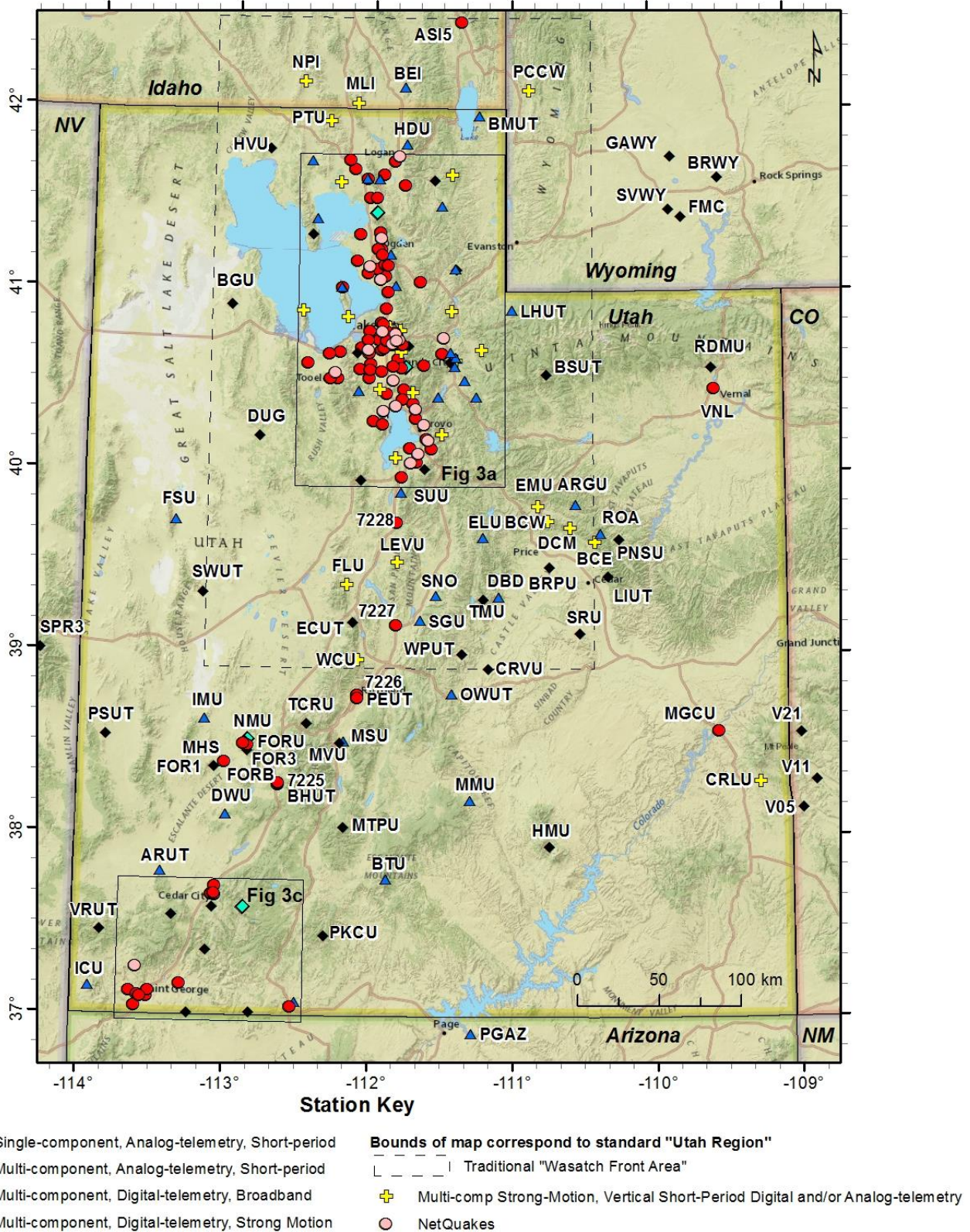
? Indicates on-line reports that appear questionable given the distance from the source

‡ *CIIM* indicates the availability of a Community Internet Intensity Map (<http://earthquake.usgs.gov/earthquakes/dyfi>), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking (<http://www.quake.utah.edu>), produced by the University of Utah Seismograph Stations (UUSS). Roman numerals correspond to the Modified Mercalli intensity scale. Unless otherwise indicated, felt information is from the USGS (1) CIIM reports and/or (2) PDE Monthly (or) Weekly Listing Files (<http://earthquake.usgs.gov/data/pde.php>).

§ Richter local magnitude (M<sub>L</sub>) or 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 March 31, 2019



**Figure 2**



# Utah Urban Seismic Network (March 31, 2019)

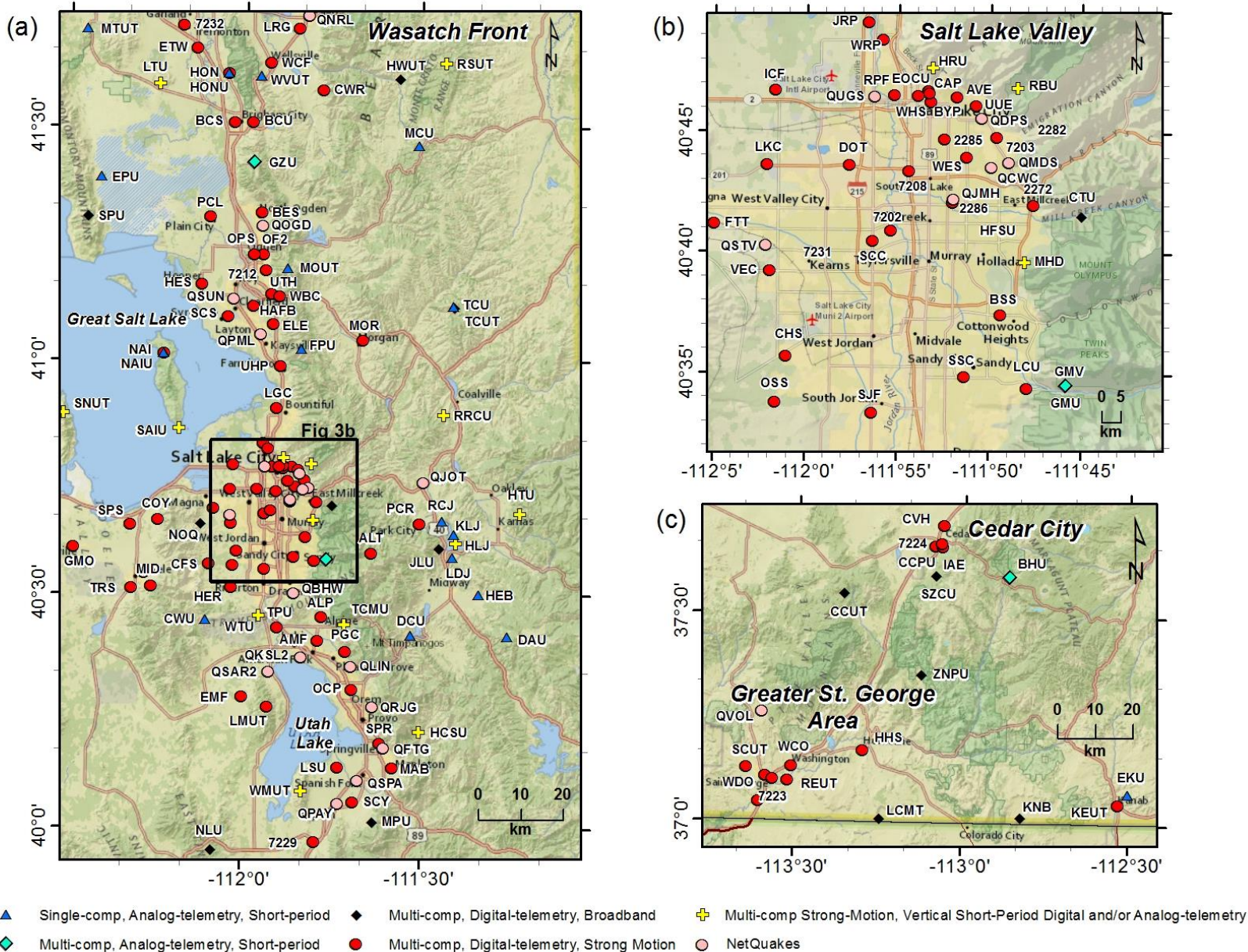


Figure 3

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190101	09:49:08.13	36° 55.02'	113° 55.24'	12.1*	2.3W	16	165	26	0.22
190101	11:47:38.54	36° 48.00'	112° 46.09'	10.3*	1.8	7	167	25	0.10
190101	21:53:38.41	41° 49.54'	111° 29.38'	8.6*	1.0	12	111	21	0.12
190102	15:47:03.60	38° 34.67'	112° 15.55'	7.4	2.9W	35	63	9	0.27
190102	15:55:11.69	38° 33.41'	112° 15.86'	3.0	1.7W	17	65	7	0.22
190102	16:03:46.30	38° 34.03'	112° 16.22'	-2.8	1.8W	21	62	9	0.18
190102	17:05:15.99	38° 33.94'	112° 15.70'	-2.1	1.3W	13	91	8	0.12
190102	17:18:37.59	38° 34.12'	112° 15.26'	-0.9	1.8W	12	85	8	0.12
190103	09:09:02.83	39° 27.47'	111° 29.90'	11.1	1.2	16	69	16	0.15
190104	12:23:36.52	39° 42.85'	110° 45.14'	-3.3	1.8W	18	71	2	0.11
190104	13:01:02.24	38° 34.80'	112° 35.19'	1.2*	0.9	14	77	13	0.13
190104	13:11:33.47	38° 35.32'	112° 15.67'	-2.6	2.6W	30	66	10	0.23
190104	16:04:24.32	39° 14.43'	111° 27.98'	2.2*	1.4W	11	91	11	0.11
190104	17:29:03.53	38° 30.96'	111° 33.37'	8.0*	1.5	15	93	31	0.07
190104	20:42:08.51	38° 31.25'	112° 15.28'	9.1	1.5W	12	141	4	0.14
190104	22:03:05.11	38° 35.07'	112° 15.35'	-1.0	1.9W	22	71	10	0.22
190104	23:34:17.28	38° 32.67'	112° 15.43'	6.3	1.0W	12	100	6	0.11
190104	23:34:31.57	38° 33.73'	112° 16.32'	-1.4	1.9W	17	89	8	0.23
190105	00:30:35.50	38° 32.49'	112° 14.61'	10.1	0.8	8	121	5	0.11
190105	00:30:41.60	38° 31.42'	112° 15.12'	11.5	1.5W	9	141	4	0.06
190105	01:21:27.75	38° 16.17'	112° 22.28'	1.8*	1.4W	22	95	29	0.13
190105	03:35:02.83	38° 45.28'	112° 44.86'	0.1*	1.5	16	145	28	0.23
190105	08:13:06.17	38° 43.36'	112° 44.64'	7.4*	1.1	8	162	25	0.09
190106	04:37:59.41	40° 30.76'	112° 09.56'	2.0	1.2	24	88	8	0.13
190106	15:50:46.67	36° 58.09'	113° 30.54'	10.9	1.8	12	143	12	0.22
190106	18:17:14.32	39° 37.69'	111° 11.55'	-2.0	1.4	8	141	2	0.08
190107	00:03:55.01	39° 39.95'	111° 16.13'	-1.6	1.6	11	110	6	0.11
190107	08:59:37.25	39° 40.44'	111° 15.68'	-1.7	1.4W	9	106	6	0.07
190109	01:45:58.56	36° 57.51'	113° 31.14'	8.4	2.6W	27	135	13	0.19
190109	01:46:08.23	36° 56.30'	113° 30.96'	4.8*	3.1W	18	137	15	0.17
190109	01:50:55.94	37° 00.68'	113° 29.51'	9.8	1.8	10	172	11	0.14
190109	02:06:29.86	36° 57.54'	113° 31.19'	8.5	1.9W	24	136	12	0.22
190109	02:06:45.72	36° 56.38'	113° 31.72'	5.8*	3.0W	27	176	14	0.17
190109	04:38:38.51	36° 57.39'	113° 30.90'	9.4	1.3	9	166	13	0.14
190109	09:58:48.76	36° 57.29'	113° 30.82'	7.2*	1.8	11	135	25	0.17
190109	22:03:20.26	42° 29.96'	111° 24.27'	9.0	1.5	17	111	4	0.11
190110	04:49:51.01	41° 53.21'	112° 55.75'	0.0*	1.4	20	224	17	0.16
190110	05:30:05.93	36° 57.85'	113° 30.55'	8.9	1.4	17	135	13	0.13
190110	22:35:55.01	37° 30.36'	113° 51.16'	4.5	1.7W	15	75	5	0.16
190110	22:56:47.98	37° 29.93'	113° 51.40'	5.8	1.6W	13	76	4	0.23
190111	07:10:08.02	37° 29.45'	113° 51.71'	12.0*	1.5	15	77	38	0.21
190111	07:11:00.55	37° 30.66'	113° 50.19'	6.0*	0.8	11	129	47	0.17
190111	07:12:59.37	37° 29.57'	113° 51.54'	6.6	1.5	14	77	3	0.20
190111	08:44:28.75	38° 16.19'	112° 38.07'	9.6*	1.8W	19	75	29	0.09
190111	11:49:17.37	38° 25.81'	112° 50.97'	5.6	0.0	12	140	3	0.09

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190111	14:40:17.98	41° 40.37'	111° 40.48'	9.2	0.6	11	110	12	0.09
190111	17:03:07.45	36° 57.65'	113° 30.69'	8.6	1.5W	17	135	13	0.11
190112	02:24:15.93	38° 35.69'	112° 33.81'	0.2	0.8	11	76	10	0.14
190112	12:07:44.77	37° 00.27'	112° 20.64'	20.9	1.1	9	172	16	0.09
190112	15:22:15.08	37° 25.61'	113° 51.27'	9.1	1.7	14	78	4	0.19
190113	11:26:47.33	36° 57.41'	113° 30.97'	7.3	1.6	13	135	13	0.22
190113	17:25:54.82	36° 57.67'	114° 10.83'	-3.1*	2.2W	10	118	31	0.29
190113	21:04:59.56	37° 30.12'	113° 50.81'	4.9	2.8W	21	73	5	0.17
190113	21:29:16.99	37° 30.02'	113° 51.29'	7.8	1.8W	15	75	4	0.29
190113	23:03:56.09	40° 30.07'	112° 09.59'	0.2	1.4	14	142	8	0.19
190114	02:03:10.07	37° 29.75'	113° 51.46'	6.7	1.5	12	114	4	0.17
190114	05:01:16.53	37° 30.06'	113° 50.91'	6.8	2.2W	20	75	4	0.15
190114	17:58:20.20	36° 58.27'	113° 30.40'	9.1	1.6W	13	133	12	0.09
190114	18:12:35.30	36° 57.25'	113° 30.87'	6.8	1.6W	16	135	13	0.23
190114	22:58:02.63	38° 31.38'	112° 14.50'	10.1	1.5W	10	134	3	0.10
190115	00:47:32.86	38° 33.78'	112° 15.50'	-1.3	1.8W	15	85	8	0.16
190115	11:32:02.86	37° 02.89'	112° 52.72'	14.9	1.2W	10	140	6	0.15
190115	12:37:20.82	36° 56.80'	113° 31.43'	6.3*	1.4W	16	210	13	0.28
190115	14:47:00.67	38° 08.24'	113° 06.36'	9.1	0.9	11	119	10	0.12
190115	17:04:21.20	40° 16.43'	111° 21.21'	0.6*	0.8	12	233	17	0.10
190115	20:53:07.35	36° 57.11'	113° 31.58'	7.6	1.3	14	208	13	0.27
190115	21:06:48.29	38° 27.22'	113° 03.80'	3.5	1.1	8	89	10	0.07
190115	21:08:18.27	38° 08.81'	113° 06.39'	5.3*	1.3	16	82	11	0.11
190116	17:09:28.77	36° 47.84'	113° 32.00'	0.9*	1.6	7	251	28	0.10
190116	21:58:18.51	37° 29.75'	113° 51.00'	6.9	2.8W	23	76	4	0.19
190116	22:00:01.04	37° 29.68'	113° 50.95'	8.9	3.8W	25	75	4	0.20
190117	02:17:49.77	42° 01.04'	112° 01.97'	4.2	1.0	17	131	8	0.11
190117	03:47:00.78	37° 29.51'	113° 51.14'	9.4*	1.7	13	123	38	0.14
190118	03:58:25.25	37° 15.20'	114° 09.01'	10.1*	1.6	11	196	23	0.09
190118	10:20:20.54	37° 29.94'	113° 52.06'	5.1	1.4	11	125	4	0.22
190118	11:13:06.35	37° 30.39'	113° 50.66'	5.9	1.9W	15	118	5	0.13
190118	11:54:21.49	37° 30.27'	113° 51.01'	5.9*	1.3	9	122	40	0.10
190118	16:07:48.47	37° 30.73'	113° 50.65'	4.5	--	15	73	6	0.12
190118	16:07:51.51	37° 30.23'	113° 50.50'	5.6	2.6W	16	71	5	0.18
190118	16:14:02.89	37° 29.38'	113° 50.85'	6.8	1.5	13	70	3	0.20
190118	16:43:55.42	37° 30.85'	113° 50.26'	3.8	1.7	13	68	6	0.10
190118	16:45:08.55	37° 30.21'	113° 50.92'	5.4	2.4W	16	75	5	0.13
190118	17:29:25.67	37° 29.72'	113° 51.95'	5.6	1.9	10	136	4	0.10
190118	21:08:59.45	37° 29.87'	113° 50.46'	5.5	2.0W	13	112	4	0.20
190118	22:35:08.44	38° 03.75'	112° 43.50'	3.5*	1.8W	25	59	24	0.20
190119	01:14:28.60	37° 30.39'	113° 51.77'	8.9	2.2W	19	77	5	0.26
190119	06:42:16.28	38° 33.92'	112° 15.08'	5.4	1.5W	16	65	8	0.17
190119	07:05:55.99	38° 34.36'	112° 13.65'	10.4	1.0	9	143	8	0.10
190119	12:02:41.52	37° 29.45'	113° 49.64'	3.8	1.0	9	139	4	0.06
190119	14:10:20.23	37° 30.95'	113° 51.71'	4.6	0.6	7	172	6	0.19

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190119	14:52:16.84	41° 07.66'	112° 05.47'	13.0	1.1	28	49	5	0.15
190119	15:58:21.40	41° 08.47'	112° 05.28'	4.2*	1.0	13	70	18	0.18
190120	03:04:06.06	42° 05.24'	111° 32.78'	4.7*	1.2	17	172	30	0.15
190120	03:37:22.19	41° 50.69'	112° 31.31'	2.2*	0.9	14	108	20	0.15
190120	04:24:28.38	41° 50.12'	112° 31.68'	11.2	0.6	10	107	19	0.11
190120	14:58:04.59	41° 07.63'	112° 05.30'	12.6	1.0	25	71	5	0.14
190120	16:26:26.64	37° 25.21'	113° 07.61'	9.7	0.9W	11	133	7	0.07
190121	07:50:29.40	39° 40.42'	111° 16.80'	-3.5	1.4	8	151	8	0.06
190121	17:53:43.30	38° 15.33'	112° 21.32'	1.8*	0.5	12	119	28	0.05
190121	21:01:26.43	37° 53.09'	113° 39.59'	3.6*	2.6W	21	75	22	0.16
190122	12:16:07.91	36° 57.93'	113° 29.89'	6.9	1.8W	13	181	13	0.14
190122	19:14:34.74	38° 35.06'	112° 14.50'	-1.2	1.8W	14	81	9	0.15
190123	08:58:34.84	37° 53.51'	113° 40.10'	0.0*	2.9W	22	122	23	0.24
190123	09:05:13.64	37° 53.30'	113° 40.24'	0.1*	1.4	16	76	23	0.27
190123	11:06:43.91	37° 53.34'	113° 40.50'	1.2*	1.3	15	77	24	0.10
190123	11:51:41.54	39° 40.52'	111° 16.90'	-3.4	1.4W	11	76	8	0.14
190123	21:23:06.55	37° 29.10'	113° 50.06'	4.7	0.7	7	142	3	0.05
190123	22:56:13.32	37° 53.32'	113° 40.33'	2.9*	1.4	14	148	23	0.10
190125	11:41:48.97	37° 26.29'	113° 07.83'	11.7	1.4W	15	80	9	0.16
190126	08:39:57.21	37° 30.05'	114° 13.72'	3.7*	0.5	8	191	33	0.08
190126	08:55:36.66	41° 04.75'	111° 35.36'	0.8*	0.9W	15	117	16	0.22
190127	06:21:47.12	40° 23.48'	111° 54.85'	3.8	2.3W	29	87	8	0.16
190127	07:17:58.29	37° 30.28'	113° 51.12'	5.9	0.5	10	122	5	0.06
190127	09:57:37.86	36° 49.09'	113° 39.07'	3.2*	1.3	11	186	42	0.12
190127	10:33:39.55	39° 24.49'	111° 22.63'	22.5	1.2W	14	84	17	0.13
190127	12:22:49.23	37° 30.74'	113° 51.48'	3.4	0.4	10	123	6	0.25
190127	21:51:27.10	40° 27.82'	111° 26.63'	2.9	0.1	12	123	9	0.08
190128	10:28:24.53	38° 27.99'	112° 49.32'	0.2	-0.4	8	269	4	0.31
190128	13:55:20.57	40° 26.60'	111° 59.91'	11.1	1.5W	30	89	4	0.17
190128	17:01:34.15	36° 54.00'	112° 24.19'	18.3*	1.4W	8	190	39	0.11
190129	00:17:39.03	41° 33.70'	111° 54.81'	0.2	1.2	16	59	7	0.20
190129	01:04:54.54	38° 08.75'	113° 07.47'	2.9*	0.3	9	194	12	0.12
190129	03:57:10.23	38° 35.90'	112° 38.58'	6.1*	1.0	15	64	17	0.15
190129	07:16:49.95	38° 32.37'	112° 16.08'	6.8	0.8	8	173	8	0.07
190129	12:20:40.13	39° 38.81'	111° 13.34'	-0.9	1.5	9	204	2	0.10
190130	17:45:25.74	37° 29.74'	113° 51.08'	6.8	1.6W	12	122	4	0.11
190131	02:59:14.30	41° 53.59'	111° 58.17'	0.5*	0.9	13	88	20	0.09
190131	07:21:57.69	41° 50.08'	111° 37.37'	11.2	1.5W	12	88	12	0.12
190131	07:22:35.42	39° 15.10'	111° 02.18'	20.2	1.3W	18	89	16	0.13
190201	00:35:57.56	39° 40.64'	111° 16.43'	-3.4	1.6	13	113	7	0.10
190201	00:45:55.34	39° 38.82'	111° 13.57'	-0.7	1.3	11	205	2	0.12
190201	09:33:11.09	39° 40.39'	111° 16.54'	-3.4	1.4W	15	73	7	0.13
190202	00:17:06.40	37° 29.75'	113° 50.87'	6.1	1.2	11	120	4	0.13
190202	03:03:11.23	37° 53.66'	112° 29.47'	5.8*	1.5	14	62	32	0.23
190202	03:05:25.49	37° 29.73'	113° 53.41'	3.4	0.2	6	129	5	0.06

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190203	00:00:54.46	39° 40.32'	111° 16.91'	-3.4	1.5	8	149	8	0.16
190203	13:17:49.01	37° 27.66'	113° 46.80'	2.4	1.7	12	70	7	0.18
190203	19:40:50.97	41° 46.46'	111° 39.77'	13.1	0.8	8	181	9	0.09
190203	19:41:04.76	41° 45.92'	111° 40.45'	12.9	0.6	7	176	9	0.05
190205	01:08:26.88	40° 53.21'	111° 31.79'	12.7	1.1W	15	97	8	0.08
190205	01:50:21.93	41° 45.22'	112° 24.32'	6.2	1.4	13	72	10	0.16
190205	02:27:58.30	37° 31.74'	113° 55.52'	2.0	0.9	8	133	10	0.08
190205	14:31:57.60	39° 40.14'	111° 16.31'	-2.7	1.5	8	150	7	0.04
190205	15:45:30.27	36° 56.70'	113° 34.00'	17.1	2.2	8	261	12	0.07
190206	07:03:06.15	37° 32.67'	113° 40.57'	1.7*	1.0	9	76	18	0.03
190206	10:31:01.53	37° 53.38'	113° 35.39'	0.1*	0.9	11	68	17	0.14
190206	20:41:18.06	37° 30.33'	113° 50.65'	6.2	2.1W	18	71	5	0.12
190206	23:04:56.33	37° 31.08'	113° 57.58'	0.5*	0.6	7	233	11	0.25
190207	15:04:04.43	36° 58.49'	113° 52.04'	7.0*	1.4	7	248	20	0.03
190207	15:18:17.19	36° 55.87'	113° 54.05'	10.4*	1.6	11	163	24	0.16
190207	15:47:53.30	36° 57.44'	113° 31.16'	3.5*	0.4	8	174	25	0.10
190207	17:25:45.65	38° 30.82'	111° 57.08'	13.6	1.6W	20	81	20	0.18
190207	17:51:12.98	38° 27.58'	112° 16.40'	1.7	1.2W	11	89	7	0.08
190207	18:31:42.61	42° 01.90'	112° 38.33'	7.5*	1.1	13	194	16	0.13
190207	18:43:20.58	37° 47.74'	112° 58.14'	8.7*	1.0	10	82	34	0.21
190208	09:02:16.67	38° 06.39'	112° 46.88'	7.6*	0.8	14	70	19	0.11
190208	09:41:58.80	39° 41.56'	111° 14.74'	-3.5	1.0	9	106	7	0.20
190208	18:19:20.77	39° 43.18'	111° 09.11'	3.3	1.5W	19	120	10	0.15
190208	18:20:28.56	39° 43.61'	111° 09.05'	2.6*	1.5W	23	123	11	0.19
190208	18:28:32.48	39° 43.63'	111° 08.54'	-1.7*	1.1W	9	182	11	0.11
190208	18:38:39.31	39° 43.79'	111° 09.38'	3.2*	2.0W	26	74	11	0.21
190208	18:54:35.02	39° 41.97'	111° 10.63'	-3.0	1.2	10	210	7	0.08
190208	19:07:22.30	39° 43.69'	111° 09.08'	1.4*	1.1	6	123	11	0.10
190208	19:17:52.79	39° 43.10'	111° 08.72'	6.1	1.4W	16	140	10	0.19
190208	19:18:43.70	39° 43.73'	111° 09.24'	-0.2*	1.7W	18	142	11	0.16
190208	19:18:43.79	39° 43.50'	111° 09.39'	3.3	1.9	24	122	10	0.19
190208	19:22:12.68	39° 41.73'	111° 08.28'	1.8	1.4	12	132	8	0.22
190208	20:08:49.00	39° 43.06'	111° 08.98'	4.7	1.7W	22	120	10	0.26
190208	22:14:57.86	40° 45.67'	111° 57.16'	7.2	1.0W	22	57	3	0.12
190209	00:49:01.86	38° 50.14'	111° 23.96'	3.5	1.4	8	172	7	0.05
190209	02:15:28.98	38° 13.36'	112° 16.17'	0.4*	1.1	14	117	21	0.26
190209	05:07:08.18	37° 59.10'	109° 13.20'	5.7*	1.5	10	176	29	0.06
190209	18:46:28.77	37° 30.92'	112° 33.90'	2.0*	2.5W	22	59	24	0.25
190209	18:52:42.25	37° 31.83'	112° 32.35'	5.5*	1.8	10	142	22	0.31
190209	19:51:33.77	37° 31.65'	112° 31.48'	13.7	1.8	10	130	21	0.15
190209	19:59:30.36	37° 29.20'	112° 31.58'	5.8*	1.8	8	133	20	0.15
190210	07:19:04.19	39° 39.73'	111° 15.72'	-1.8	1.4	10	135	6	0.19
190210	13:35:44.00	39° 29.76'	111° 11.64'	-3.3*	2.2	18	56	16	0.17
190210	13:51:21.71	39° 29.87'	111° 11.79'	1.6*	1.8	13	59	16	0.20
190210	14:19:51.74	39° 30.67'	111° 11.47'	7.2	1.8	11	131	14	0.19

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190210	14:28:30.84	39° 30.17'	111° 11.38'	3.3*	1.9	17	61	15	0.22
190210	14:37:40.71	39° 29.96'	111° 11.20'	3.2*	1.5	7	163	16	0.05
190210	14:37:56.07	39° 30.47'	111° 12.30'	12.9	2.2	6	155	15	0.04
190210	14:52:57.99	39° 30.65'	111° 11.29'	1.8*	1.5	7	132	14	0.24
190210	15:28:29.68	37° 30.02'	112° 33.00'	3.3*	1.4	11	173	22	0.20
190210	19:41:06.10	39° 40.03'	111° 15.81'	-1.6	1.3	9	126	6	0.11
190210	21:25:42.14	39° 30.48'	111° 10.71'	3.2*	1.7	10	135	15	0.17
190211	05:31:26.71	37° 25.34'	113° 06.47'	9.4	0.8	9	185	8	0.17
190211	05:32:47.47	38° 46.98'	111° 22.37'	16.7	1.3	7	203	4	0.22
190211	05:51:40.78	37° 24.76'	113° 07.87'	9.3	1.1	14	86	6	0.11
190211	11:18:38.43	36° 56.33'	113° 31.12'	7.6	1.6	16	176	14	0.14
190211	15:15:39.58	38° 12.38'	113° 05.08'	8.8	0.5	9	154	14	0.05
190211	17:27:53.07	38° 49.25'	111° 22.98'	2.0	1.8	12	107	6	0.24
190211	17:54:04.95	38° 50.23'	111° 24.67'	3.9	1.9	11	103	6	0.11
190211	18:15:23.90	38° 50.08'	111° 23.42'	1.0	2.0	12	106	7	0.08
190211	18:57:32.40	38° 50.49'	111° 23.65'	0.2	1.6W	9	134	7	0.05
190211	19:58:37.78	38° 49.97'	111° 23.29'	2.8	1.8	10	124	7	0.05
190211	20:46:48.92	36° 56.25'	113° 31.44'	6.4*	1.0	8	221	14	0.17
190211	21:38:02.33	38° 50.98'	111° 24.45'	-1.0	1.4	11	132	8	0.15
190211	23:40:47.48	38° 50.16'	111° 23.64'	3.3	1.2W	17	105	7	0.14
190211	23:58:58.03	38° 50.63'	111° 23.62'	-0.1	1.3	11	133	8	0.08
190212	00:19:03.10	38° 51.18'	111° 22.94'	-3.5	1.8	11	142	9	0.16
190212	00:33:45.31	38° 50.79'	111° 24.11'	-0.4	1.8	11	127	8	0.09
190212	01:41:25.85	38° 50.27'	111° 23.89'	3.2	1.1	8	170	7	0.06
190212	02:05:42.17	38° 50.57'	111° 24.36'	0.3	1.5	10	155	7	0.18
190212	02:46:46.35	40° 44.19'	111° 33.97'	11.5	0.6	27	60	11	0.16
190212	02:56:19.98	38° 50.24'	111° 24.27'	1.8	1.8	8	135	7	0.10
190212	03:36:14.08	38° 50.01'	111° 23.57'	1.8	1.9	6	138	7	0.08
190212	04:16:56.22	38° 50.88'	111° 24.70'	-0.3	1.7W	25	119	8	0.13
190212	04:20:59.63	38° 50.52'	111° 25.23'	2.2	1.2	7	196	7	0.10
190212	04:42:53.22	38° 50.77'	111° 24.44'	-0.1	1.8	9	136	7	0.06
190212	05:16:33.74	38° 50.48'	111° 24.19'	2.6	1.5W	17	128	7	0.17
190212	06:11:00.00	38° 50.85'	111° 24.47'	-0.4	1.1	10	122	8	0.09
190212	06:25:33.14	38° 50.39'	111° 24.97'	4.8	1.3	8	189	7	0.09
190212	06:59:12.21	38° 50.37'	111° 26.12'	6.2	1.5	7	209	7	0.05
190212	07:08:19.75	38° 50.73'	111° 30.54'	1.8	1.2	7	253	10	0.06
190212	07:09:44.30	38° 51.24'	111° 23.75'	-1.9	1.3W	14	128	9	0.13
190212	07:29:53.96	38° 50.34'	111° 25.90'	4.2	1.5	9	206	7	0.18
190212	07:56:50.70	38° 50.41'	111° 24.07'	1.4	1.3W	16	129	7	0.11
190212	08:28:45.87	38° 50.44'	111° 25.52'	3.5	1.6	8	200	7	0.09
190212	09:22:46.48	38° 50.71'	111° 23.58'	-0.5	1.3W	16	133	8	0.15
190212	10:11:53.81	38° 50.31'	111° 24.91'	4.0	1.4	8	188	7	0.08
190212	10:37:18.55	38° 50.67'	111° 24.17'	3.2	2.1W	31	127	7	0.19
190212	11:04:46.86	37° 13.05'	112° 44.83'	18.7	1.2	13	93	23	0.11
190212	12:09:07.13	38° 50.80'	111° 24.20'	-0.6	1.8W	20	126	8	0.14



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190212	12:27:07.87	38° 50.60'	111° 23.73'	-0.5	2.0	13	132	7	0.14
190212	12:39:47.68	38° 50.25'	111° 25.32'	4.4	1.1	8	195	6	0.09
190212	13:20:59.78	38° 50.47'	111° 24.05'	1.6	1.5W	19	129	7	0.11
190212	13:37:03.45	38° 50.85'	111° 23.21'	-1.1	1.9	11	136	8	0.09
190212	13:51:32.40	38° 51.15'	111° 23.48'	-2.0	1.6	9	147	9	0.08
190212	14:48:17.55	38° 51.02'	111° 23.78'	-1.5	1.7W	21	129	8	0.15
190212	15:03:57.86	38° 50.62'	111° 24.84'	1.9	1.3W	9	188	7	0.07
190212	15:16:19.81	38° 50.12'	111° 23.94'	1.0	1.6W	13	133	7	0.10
190212	16:34:20.32	38° 07.31'	112° 39.97'	2.6*	1.2	14	57	29	0.22
190212	17:01:46.16	38° 50.27'	111° 23.60'	1.7	1.2W	14	106	7	0.16
190212	17:27:13.84	41° 25.70'	112° 46.25'	2.2*	1.2W	13	158	30	0.11
190212	19:44:26.67	38° 50.77'	111° 23.58'	-0.9	1.2W	13	115	8	0.14
190212	22:14:48.29	38° 50.59'	111° 26.03'	3.2	1.6	10	208	7	0.15
190212	22:46:57.44	38° 50.83'	111° 25.31'	0.1	1.2	11	161	7	0.21
190213	05:03:32.58	41° 25.83'	112° 46.30'	4.1*	1.4	20	158	30	0.12
190213	05:05:27.96	40° 28.15'	111° 56.13'	6.9	1.9W	58	56	2	0.20
190213	05:37:46.08	38° 50.35'	111° 25.37'	4.1	1.5	7	196	7	0.10
190213	09:50:48.64	38° 50.26'	111° 26.15'	5.1	1.4	8	210	6	0.08
190213	10:15:10.25	38° 50.60'	111° 25.71'	2.0	1.3	8	203	7	0.09
190213	11:22:43.96	38° 50.11'	111° 25.17'	5.7	1.6	10	118	6	0.06
190213	11:33:54.42	40° 28.41'	111° 56.52'	5.5	1.1	15	78	2	0.14
190213	11:38:11.81	37° 01.06'	113° 35.74'	11.3	2.1W	20	144	3	0.14
190213	11:55:44.02	40° 28.16'	111° 55.71'	5.8	0.7	13	81	3	0.13
190213	12:00:01.34	38° 50.19'	111° 25.02'	5.2	1.4	8	189	6	0.10
190213	12:54:58.33	40° 28.32'	111° 56.29'	6.8	1.8W	45	47	2	0.15
190213	13:15:10.66	38° 50.15'	111° 25.07'	5.3	1.3	8	190	6	0.06
190213	14:37:47.29	38° 50.93'	111° 24.19'	-0.8	2.0	11	125	8	0.06
190213	15:09:23.70	40° 28.60'	111° 56.00'	6.4	0.6	12	77	3	0.13
190213	15:21:17.42	40° 28.28'	111° 56.55'	7.7	1.4	39	41	2	0.18
190213	15:33:41.55	38° 50.05'	111° 25.24'	6.4	2.0	13	115	6	0.10
190213	16:08:06.37	38° 50.31'	111° 25.43'	4.4	1.7	8	198	6	0.05
190213	16:08:42.86	38° 49.94'	111° 25.35'	6.6	1.5	8	195	6	0.06
190213	16:42:52.50	37° 29.88'	113° 49.03'	5.3	0.7	6	242	5	0.03
190213	16:48:52.85	38° 50.07'	111° 25.45'	5.7	1.4	8	198	6	0.06
190213	18:31:33.22	40° 28.65'	111° 56.69'	7.1	1.2	20	75	3	0.13
190213	18:58:43.61	38° 50.29'	111° 23.33'	1.4	1.8	7	162	7	0.07
190213	19:21:19.38	38° 50.62'	111° 25.15'	2.0	2.2	7	195	7	0.07
190213	20:40:47.56	38° 50.58'	111° 24.87'	1.8	1.4W	7	119	7	0.08
190213	20:40:47.59	38° 50.40'	111° 24.53'	2.0	1.2W	12	123	7	0.11
190214	00:34:48.76	38° 50.00'	111° 25.56'	6.7	1.7	9	110	6	0.08
190214	02:08:12.76	39° 24.30'	110° 16.86'	5.7*	1.7	6	207	25	0.11
190214	03:26:32.55	38° 50.36'	111° 24.97'	4.4	1.5	7	189	7	0.04
190214	04:03:18.03	39° 23.66'	110° 18.25'	-2.5	2.0	9	202	4	0.09
190214	04:29:33.88	38° 50.74'	111° 23.94'	-0.5	1.4W	13	129	8	0.08
190214	05:22:53.26	38° 50.45'	111° 25.16'	2.4	1.2	7	166	7	0.08



**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190214	06:12:06.52	40° 29.13'	111° 56.01'	3.6	1.0	19	67	4	0.15
190214	06:15:29.46	39° 23.51'	110° 17.10'	-3.3	1.9	9	207	5	0.19
190214	09:17:46.78	38° 50.65'	111° 24.44'	0.3	1.0W	8	136	7	0.06
190214	10:48:14.58	38° 50.86'	111° 24.43'	-0.9	1.0W	8	136	8	0.07
190214	10:59:37.81	38° 50.88'	111° 24.74'	-0.3	1.5	10	134	8	0.07
190214	12:29:06.63	38° 50.70'	111° 23.96'	-0.7	1.8	14	129	8	0.20
190214	14:41:04.48	38° 50.46'	111° 25.26'	3.5	1.7	9	194	7	0.04
190214	15:43:29.92	38° 51.03'	111° 24.42'	-0.7	1.6W	12	122	8	0.07
190214	17:16:54.68	38° 50.61'	111° 26.79'	4.3	1.8	6	141	7	0.09
190214	17:28:47.81	38° 40.33'	112° 37.03'	6.2*	1.7	7	184	16	0.03
190214	18:00:38.98	38° 39.41'	112° 36.51'	-0.1*	1.7	17	75	15	0.20
190214	19:41:32.14	38° 50.97'	111° 25.08'	0.1	1.9W	21	114	8	0.07
190214	20:20:39.20	38° 50.66'	111° 26.17'	2.4	1.6	8	210	7	0.06
190214	20:48:50.62	38° 50.72'	111° 25.74'	1.3	1.6	11	106	7	0.21
190214	20:57:08.26	38° 51.00'	111° 24.96'	-0.5	2.0W	17	115	8	0.10
190214	21:59:46.16	38° 50.74'	111° 24.84'	-0.7	1.6	8	137	7	0.06
190215	01:09:31.79	38° 50.30'	111° 24.53'	2.2	1.1	9	181	7	0.12
190215	02:49:42.11	38° 50.91'	111° 24.87'	-0.7	1.8W	16	117	8	0.15
190215	04:32:22.70	38° 50.26'	111° 25.88'	4.8	1.4	9	205	6	0.06
190215	04:44:50.74	38° 50.35'	111° 26.48'	5.9	0.9	9	215	7	0.17
190215	04:53:29.83	39° 40.39'	111° 15.97'	-3.4	1.3	7	148	6	0.11
190215	08:13:48.53	38° 48.24'	111° 23.01'	3.6	1.1	11	168	4	0.07
190215	08:20:32.50	40° 27.59'	111° 55.64'	7.3	0.1	12	109	2	0.12
190215	10:18:02.09	40° 28.43'	111° 56.09'	6.3	0.8	16	67	3	0.14
190215	11:41:20.11	40° 27.80'	111° 56.12'	6.4	0.5	14	97	2	0.14
190215	12:02:50.77	40° 27.85'	111° 56.66'	8.8	3.2W	58	28	1	0.20
190215	12:09:31.32	40° 28.36'	111° 56.05'	6.3	0.5	16	71	3	0.11
190215	12:09:51.25	40° 27.79'	111° 56.88'	8.6	3.7W	62	28	1	0.21
190215	12:11:57.96	40° 28.13'	111° 56.16'	7.6	2.2	32	56	2	0.17
190215	12:13:19.34	40° 28.62'	111° 56.35'	5.7	0.5	14	59	3	0.11
190215	12:14:19.69	40° 28.12'	111° 56.01'	7.5	1.7W	30	60	2	0.15
190215	12:20:07.54	40° 27.89'	111° 57.01'	7.6	0.6	12	66	1	0.17
190215	12:20:40.75	40° 28.44'	111° 55.89'	5.9	0.3	9	100	3	0.07
190215	12:33:44.43	40° 29.16'	111° 55.99'	3.5	0.7	18	57	4	0.19
190215	12:39:51.82	40° 28.83'	111° 55.69'	4.2	0.6	10	103	4	0.09
190215	12:40:54.81	40° 28.02'	111° 55.68'	7.2	1.2	23	86	3	0.15
190215	12:45:35.02	40° 28.48'	111° 55.98'	6.1	1.1	22	66	3	0.15
190215	12:45:57.10	40° 28.75'	111° 55.63'	5.4	0.9	13	100	3	0.10
190215	12:46:52.47	40° 28.26'	111° 56.05'	6.7	1.2	25	55	2	0.17
190215	12:52:11.96	40° 28.08'	111° 56.26'	7.1	1.1	9	79	2	0.09
190215	13:03:16.10	40° 27.83'	111° 55.94'	6.4	0.9	19	90	2	0.14
190215	13:22:32.45	40° 28.20'	111° 55.86'	6.3	0.1	8	129	3	0.12
190215	13:45:57.92	40° 28.28'	111° 56.55'	6.9	1.2	21	55	2	0.17
190215	13:47:17.33	40° 27.51'	111° 56.20'	8.4	1.0	20	112	1	0.10
190215	13:55:15.82	40° 27.83'	111° 56.34'	7.7	1.2	17	91	2	0.13

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190215	14:26:53.31	40° 27.84'	111° 55.90'	7.2	0.7	10	96	2	0.11
190215	15:12:49.26	40° 28.82'	111° 56.54'	6.0	0.5	12	67	3	0.13
190215	15:14:15.70	40° 27.94'	111° 56.20'	8.4	1.1	16	87	2	0.12
190215	15:21:59.16	40° 28.25'	111° 56.34'	7.7	0.7	11	70	2	0.10
190215	16:01:11.06	40° 28.23'	111° 55.64'	6.8	1.2	23	53	3	0.14
190215	16:05:43.44	40° 28.16'	111° 56.20'	7.3	2.2W	36	46	2	0.17
190215	16:12:05.06	40° 28.41'	111° 56.30'	6.8	1.6W	30	45	2	0.20
190215	16:35:01.79	40° 28.11'	111° 55.94'	6.9	1.5	25	77	2	0.15
190215	16:58:28.68	40° 28.27'	111° 55.95'	6.6	1.3	19	75	3	0.16
190215	17:00:00.22	40° 28.26'	111° 55.79'	6.9	1.4	19	77	3	0.17
190215	17:03:18.26	40° 27.94'	111° 56.39'	7.2	1.4	32	33	2	0.18
190215	17:55:16.60	40° 28.44'	111° 55.80'	7.0	1.0	17	70	3	0.13
190215	21:36:32.08	40° 28.54'	111° 55.70'	6.1	1.2	30	54	3	0.17
190215	22:42:45.40	40° 27.66'	111° 56.24'	7.8	1.0	18	106	2	0.14
190216	00:40:21.46	39° 31.03'	111° 12.10'	5.8*	1.4	8	92	14	0.21
190216	01:12:38.14	38° 50.87'	111° 24.73'	-0.3	1.8W	19	119	8	0.16
190216	01:32:37.33	40° 28.35'	111° 56.33'	7.9	1.0	14	67	2	0.10
190216	02:21:06.87	40° 27.93'	111° 56.30'	7.6	1.5	28	76	2	0.14
190216	02:40:28.51	40° 28.13'	111° 55.66'	7.8	1.3	26	82	3	0.13
190216	03:05:15.85	40° 27.85'	111° 56.07'	7.7	1.0	17	95	2	0.15
190216	05:13:36.06	37° 54.39'	112° 22.50'	3.6*	2.0W	13	79	22	0.13
190216	05:53:50.34	40° 28.16'	111° 56.45'	6.8	1.2	25	62	2	0.19
190216	06:41:40.57	40° 28.28'	111° 56.03'	4.6	1.6W	26	68	2	0.16
190216	07:41:55.67	40° 27.28'	111° 55.97'	7.3	1.0	13	155	2	0.10
190216	08:15:33.09	40° 28.50'	111° 56.16'	6.9	0.8	13	80	3	0.12
190216	08:56:14.00	40° 27.72'	111° 56.18'	8.2	0.9	18	102	2	0.11
190216	12:17:55.05	40° 28.50'	111° 55.87'	6.8	1.0	23	68	3	0.18
190216	15:39:52.51	40° 27.58'	111° 56.00'	8.3	1.0	18	108	2	0.13
190216	15:54:15.44	40° 27.83'	111° 55.98'	6.1	1.3	18	122	2	0.16
190216	16:00:21.01	40° 28.33'	111° 55.99'	6.0	1.6W	31	53	3	0.16
190216	21:26:36.81	38° 43.78'	112° 30.03'	5.0*	1.0	12	73	14	0.10
190216	21:28:41.49	38° 43.72'	112° 29.55'	8.9	1.7W	19	74	14	0.15
190216	22:05:30.74	38° 43.92'	112° 29.63'	8.1	3.3W	27	68	14	0.18
190216	22:13:52.05	38° 43.70'	112° 30.19'	6.0*	1.2	15	73	14	0.14
190216	22:47:37.89	38° 43.69'	112° 30.05'	8.5	0.9	16	62	14	0.08
190216	23:32:44.60	38° 50.30'	111° 25.36'	3.4	2.0	13	135	6	0.13
190217	00:29:10.24	38° 50.81'	111° 24.36'	0.4	1.7W	16	124	8	0.08
190217	00:40:14.40	38° 50.33'	111° 24.37'	0.5	2.0	10	126	7	0.18
190217	01:11:31.43	38° 50.43'	111° 24.66'	0.7	2.0	9	122	7	0.13
190217	01:37:06.85	40° 28.85'	111° 56.07'	5.7	1.0	15	85	3	0.17
190217	02:00:52.89	40° 27.90'	111° 56.44'	6.4	2.4W	45	35	2	0.22
190217	02:03:21.96	40° 27.86'	111° 55.81'	8.1	0.8	15	94	2	0.10
190217	05:35:48.61	38° 50.37'	111° 23.68'	0.7	1.7	12	134	7	0.09
190217	06:56:57.86	40° 28.44'	111° 55.80'	5.8	0.7	13	122	3	0.14
190217	10:31:58.62	40° 28.99'	111° 56.43'	5.7	0.8	17	79	3	0.16

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190217	10:37:02.79	40° 27.84'	111° 56.10'	8.1	0.8	9	140	2	0.08
190217	10:40:23.56	40° 28.19'	111° 55.59'	6.5	1.0	15	133	3	0.11
190217	11:10:30.26	40° 28.47'	111° 56.07'	6.0	1.8W	30	49	3	0.14
190217	15:23:58.13	40° 28.54'	111° 56.00'	5.9	1.4W	23	64	3	0.15
190217	15:25:20.39	40° 28.30'	111° 56.15'	5.7	1.6W	29	51	2	0.19
190217	15:27:58.59	40° 28.21'	111° 56.16'	6.6	1.3W	23	53	2	0.14
190217	15:56:33.75	40° 27.62'	111° 56.02'	7.7	0.7	12	82	2	0.06
190217	15:56:56.68	40° 28.48'	111° 55.98'	7.4	0.6	13	67	3	0.09
190217	18:13:50.83	40° 28.01'	111° 55.84'	6.9	1.0	15	137	2	0.13
190217	19:13:27.66	38° 50.60'	111° 24.43'	0.4	0.8W	15	124	7	0.13
190218	01:05:26.29	38° 50.70'	111° 22.17'	-2.2	1.0W	16	147	9	0.12
190218	02:23:47.29	40° 28.01'	111° 55.83'	6.9	0.9	17	137	2	0.14
190218	02:43:45.32	38° 11.45'	112° 37.96'	5.1	1.0	13	142	10	0.24
190218	03:44:07.52	38° 28.57'	112° 51.40'	2.5	1.2	12	107	2	0.22
190218	03:44:54.60	38° 28.73'	112° 51.38'	0.1	0.9	9	106	2	0.08
190218	03:53:03.60	38° 50.64'	111° 23.81'	-0.5	1.5	15	131	7	0.14
190218	05:11:45.60	38° 50.89'	111° 24.79'	-0.2	1.9W	16	118	8	0.10
190218	08:26:24.34	39° 24.04'	110° 16.48'	-3.4	1.6	11	209	5	0.27
190218	12:48:57.78	40° 28.44'	111° 56.19'	5.1	1.1	16	62	3	0.23
190218	13:50:51.77	40° 28.38'	111° 56.50'	6.2	1.9W	34	41	2	0.17
190218	17:00:18.06	39° 24.04'	110° 17.88'	-2.6	1.6	8	202	4	0.14
190218	17:19:16.87	39° 24.14'	110° 18.15'	-2.0	1.7	9	200	3	0.06
190218	17:38:14.73	39° 24.16'	110° 17.81'	-3.2	1.5	8	203	3	0.07
190218	21:36:57.27	40° 28.40'	111° 56.52'	6.9	0.7	11	105	2	0.13
190218	22:35:50.14	40° 27.92'	111° 56.04'	8.6	0.8	9	136	2	0.06
190219	00:35:09.06	40° 28.55'	111° 56.38'	7.0	0.8	13	105	3	0.12
190219	01:41:31.82	39° 24.46'	110° 17.38'	-2.8	2.1	10	204	4	0.09
190219	03:36:09.15	40° 28.35'	111° 55.84'	7.4	0.7	9	124	3	0.08
190219	04:49:08.51	39° 24.21'	110° 18.83'	-1.8	1.1	6	197	2	0.08
190219	04:59:05.10	38° 50.09'	111° 24.53'	4.9	1.3	7	141	6	0.08
190219	05:02:08.02	39° 23.94'	110° 15.51'	-3.4	1.7W	11	214	6	0.21
190219	05:27:00.41	38° 50.42'	111° 23.66'	0.1	1.3W	9	133	7	0.07
190219	08:46:35.86	40° 28.10'	111° 55.81'	7.9	0.7	9	133	2	0.06
190219	08:46:55.27	40° 28.36'	111° 56.10'	7.9	0.7	9	118	3	0.03
190219	13:00:33.10	40° 28.07'	111° 56.03'	8.4	0.6	9	130	2	0.06
190219	13:43:15.18	40° 28.46'	111° 56.14'	6.7	1.2	15	97	3	0.16
190219	14:04:35.98	38° 29.15'	112° 50.96'	0.1	0.8	9	132	3	0.07
190219	14:11:18.53	40° 28.58'	111° 56.19'	6.6	1.6W	28	44	3	0.15
190219	14:12:09.65	40° 28.27'	111° 56.06'	7.3	1.3W	21	104	2	0.12
190219	15:36:57.19	40° 28.88'	111° 56.03'	6.3	0.8	11	106	3	0.14
190219	16:48:29.14	40° 28.21'	111° 56.34'	6.5	1.6W	32	99	2	0.22
190219	16:56:27.64	38° 50.86'	111° 23.33'	-1.4	1.9	10	134	8	0.12
190219	17:15:56.55	40° 27.66'	111° 56.07'	7.8	0.9	10	150	2	0.07
190219	22:51:03.44	40° 28.19'	111° 56.03'	6.8	1.4W	20	109	2	0.14
190220	07:05:16.68	38° 44.85'	112° 29.75'	3.8*	2.2	18	58	16	0.26

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190220	07:05:35.35	38° 44.25'	112° 29.79'	8.2	4.0W	30	45	15	0.18
190220	07:13:37.81	38° 43.09'	112° 29.11'	12.4	1.3	11	113	13	0.11
190220	07:15:15.41	39° 23.96'	110° 18.90'	-1.5	1.6	7	197	3	0.04
190220	07:16:17.21	38° 42.64'	112° 28.09'	14.5	1.0	12	117	11	0.21
190220	07:18:18.88	38° 50.48'	111° 25.48'	2.5	1.4	8	155	7	0.08
190220	07:24:30.06	38° 43.98'	112° 30.03'	8.1	0.9	11	84	14	0.06
190220	07:31:42.41	38° 43.87'	112° 29.96'	9.4	1.2	15	75	14	0.17
190220	07:42:12.81	38° 44.46'	112° 30.22'	6.2*	1.8W	22	75	15	0.18
190220	07:47:32.88	38° 44.13'	112° 30.66'	-0.6*	1.5W	18	66	15	0.17
190220	07:49:27.85	38° 44.18'	112° 30.01'	5.7*	1.7W	22	55	15	0.19
190220	07:51:26.66	38° 44.50'	112° 30.23'	3.9*	1.6	10	149	15	0.10
190220	08:24:55.12	38° 43.82'	112° 29.79'	8.9	1.3	16	63	14	0.11
190220	08:28:32.81	38° 44.46'	112° 30.08'	4.9*	1.3	16	85	15	0.15
190220	08:35:26.51	38° 43.88'	112° 30.46'	6.5*	1.8W	18	147	15	0.24
190220	10:22:25.57	38° 44.45'	112° 30.04'	0.0*	1.5W	20	64	15	0.26
190220	10:25:30.51	38° 43.80'	112° 30.21'	6.3*	1.5	15	74	14	0.20
190220	10:52:37.25	38° 44.61'	112° 30.24'	5.2*	1.7W	24	64	16	0.29
190220	12:56:36.96	40° 27.82'	111° 56.06'	6.7	1.0	11	141	2	0.08
190220	13:34:43.75	40° 28.12'	111° 56.15'	6.0	0.6	12	125	2	0.10
190220	15:33:08.47	40° 27.92'	111° 56.39'	9.1	1.8W	34	38	2	0.18
190220	16:29:19.20	38° 44.36'	112° 29.53'	8.0	1.1	17	63	15	0.16
190220	21:29:11.40	36° 55.59'	113° 32.66'	2.2*	1.7	9	213	28	0.14
190221	01:14:01.54	40° 28.62'	111° 56.11'	7.6	0.9	21	90	3	0.16
190221	01:29:10.13	40° 28.76'	111° 56.28'	6.6	1.1	27	47	3	0.20
190221	01:40:53.76	40° 28.77'	111° 56.59'	6.6	1.9W	41	50	3	0.19
190221	01:42:04.46	40° 28.43'	111° 56.20'	6.8	1.4W	29	56	3	0.19
190221	01:43:56.62	40° 28.90'	111° 56.27'	5.2	1.7W	39	37	3	0.20
190221	01:44:59.67	40° 28.17'	111° 55.83'	7.2	0.6	14	131	3	0.13
190221	02:37:42.25	40° 28.42'	111° 56.43'	7.0	2.2W	51	41	2	0.22
190221	02:42:43.22	40° 28.34'	111° 56.29'	7.6	0.6	11	113	2	0.08
190221	03:08:38.06	40° 28.12'	111° 56.61'	7.6	2.5W	50	28	2	0.18
190221	03:44:42.00	40° 28.00'	111° 55.69'	6.3	0.9	12	140	3	0.11
190221	05:19:53.52	40° 28.19'	111° 56.05'	7.1	1.0	18	125	2	0.13
190221	05:34:54.72	39° 24.03'	110° 17.05'	-3.2	1.5W	14	206	4	0.15
190221	06:46:45.88	39° 24.44'	110° 18.75'	6.0*	1.6	7	197	24	0.10
190221	11:15:26.24	40° 28.43'	111° 56.03'	5.8	1.4W	28	51	3	0.20
190221	11:23:47.75	40° 28.30'	111° 56.09'	8.7	0.3	13	73	2	0.09
190221	14:00:58.10	38° 51.26'	111° 24.34'	-1.8	1.6	7	133	8	0.04
190221	14:48:52.21	38° 10.21'	112° 41.69'	6.6*	1.0	11	76	27	0.17
190221	14:54:47.92	36° 57.31'	113° 32.41'	-0.6*	2.1W	16	81	27	0.21
190221	15:37:32.40	40° 28.38'	111° 56.04'	7.7	0.8	12	119	3	0.08
190221	16:20:34.10	39° 32.32'	111° 08.15'	11.2	1.3	7	139	13	0.08
190221	16:26:05.40	39° 23.57'	110° 15.86'	-3.2	1.9	8	213	6	0.26
190221	23:05:47.08	39° 23.89'	110° 16.79'	-3.4	2.0W	11	208	5	0.20
190222	02:55:06.18	38° 40.98'	112° 37.05'	-0.7*	2.4W	15	70	17	0.12

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190222	07:27:50.71	38° 59.72'	111° 20.60'	-3.4	1.5	7	77	1	0.09
190222	08:28:35.92	40° 28.57'	111° 55.81'	6.4	1.0	17	150	3	0.14
190222	09:09:15.25	40° 38.57'	111° 34.89'	8.7	0.2	16	94	8	0.12
190222	14:25:44.59	38° 50.08'	111° 23.29'	0.5	1.5	8	140	7	0.15
190222	19:51:43.74	41° 42.79'	109° 44.00'	-1.5	1.6	12	111	10	0.11
190222	19:53:47.81	41° 41.22'	109° 45.24'	-3.3	3.0W	10	101	10	0.17
190222	19:55:39.70	41° 42.60'	109° 43.81'	-3.4*	3.0W	11	111	11	0.14
190222	19:59:07.89	41° 43.70'	109° 43.65'	-1.5	2.6W	12	116	10	0.26
190222	20:00:28.04	41° 41.74'	109° 44.63'	-3.2	2.9W	18	105	10	0.16
190222	20:08:08.45	41° 42.97'	109° 43.75'	-3.1*	2.8W	17	112	11	0.20
190222	20:19:40.88	41° 44.12'	109° 43.96'	-0.2	2.0	11	116	10	0.22
190222	20:20:03.35	41° 45.54'	109° 43.89'	4.8	1.4	11	121	10	0.08
190223	03:15:08.43	38° 50.79'	111° 23.78'	-0.5	2.0	12	130	8	0.05
190223	09:31:10.54	40° 28.46'	111° 56.98'	8.6	3.1W	39	48	2	0.19
190223	09:32:32.54	40° 28.85'	111° 55.69'	6.6	1.7	14	59	4	0.12
190223	09:33:41.04	40° 28.51'	111° 56.22'	7.4	0.3	13	65	3	0.08
190223	09:34:05.52	40° 28.59'	111° 56.36'	7.5	0.5	14	65	3	0.08
190223	09:35:32.86	40° 28.53'	111° 56.24'	7.2	1.4W	22	43	3	0.12
190223	09:39:31.95	40° 28.35'	111° 56.16'	8.3	0.4	19	78	2	0.10
190223	09:39:51.08	40° 28.57'	111° 56.26'	8.4	0.5	16	78	3	0.09
190223	09:43:34.74	40° 28.44'	111° 55.83'	6.9	1.3W	29	54	3	0.18
190223	09:47:17.57	40° 28.36'	111° 55.87'	8.7	0.8	19	71	3	0.12
190223	09:54:43.55	40° 28.32'	111° 56.20'	8.4	0.7	15	70	2	0.09
190223	09:55:48.25	40° 28.25'	111° 56.16'	8.3	1.2	21	73	2	0.13
190223	10:32:16.27	40° 28.30'	111° 56.33'	7.3	1.0	21	49	2	0.17
190223	10:57:29.38	40° 28.50'	111° 56.01'	6.4	1.6W	31	49	3	0.17
190223	11:07:06.89	40° 29.31'	111° 56.07'	5.0	0.2	15	126	4	0.18
190223	11:07:27.75	40° 28.20'	111° 56.23'	8.6	0.8	15	74	2	0.14
190223	11:43:15.48	40° 28.67'	111° 56.26'	7.7	1.2	24	47	3	0.14
190223	13:43:30.72	40° 28.47'	111° 55.92'	5.9	1.1	23	67	3	0.17
190223	14:08:31.15	40° 28.91'	111° 55.70'	5.7	0.9	14	83	4	0.12
190223	14:13:25.16	40° 28.68'	111° 56.15'	5.9	0.8	14	140	3	0.16
190223	18:51:00.60	40° 28.14'	111° 55.63'	7.1	1.0	10	175	3	0.08
190223	19:01:59.70	40° 27.68'	111° 55.68'	7.9	1.2	14	125	2	0.08
190223	19:30:17.89	40° 28.89'	111° 56.02'	5.6	1.1	12	83	3	0.12
190223	19:30:23.15	40° 29.01'	111° 54.99'	3.7	0.8	17	154	4	0.17
190223	23:47:13.85	38° 50.87'	111° 24.45'	-0.2	2.1W	11	122	8	0.08
190223	23:50:34.91	38° 50.71'	111° 25.31'	0.9	2.7W	28	113	7	0.13
190224	00:01:29.34	38° 51.07'	111° 23.70'	-1.5	1.4	8	132	8	0.05
190224	00:10:20.38	38° 50.69'	111° 24.00'	-0.3	0.9W	12	129	7	0.07
190224	00:19:03.40	40° 28.20'	111° 56.04'	7.2	0.9	12	155	2	0.14
190224	00:27:20.50	38° 50.69'	111° 24.10'	-0.1	1.2W	13	127	7	0.08
190224	00:29:09.09	38° 50.40'	111° 24.07'	1.8	1.5	9	135	7	0.05
190224	01:21:53.08	38° 50.94'	111° 23.58'	-1.2	0.7W	11	132	8	0.08
190224	02:15:04.26	38° 51.36'	111° 24.44'	-1.5	1.1	8	133	9	0.05

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190224	03:01:48.88	38° 50.78'	111° 24.52'	-0.4	1.0W	15	123	7	0.23
190224	03:06:05.84	38° 50.20'	111° 24.39'	4.1	1.2	9	138	6	0.04
190224	03:41:49.65	38° 50.82'	111° 25.10'	0.4	1.2	8	136	7	0.08
190224	04:10:31.52	38° 50.22'	111° 23.73'	1.5	1.4	12	135	7	0.13
190224	08:31:49.66	37° 47.85'	113° 07.77'	10.9*	2.9W	18	55	27	0.22
190224	08:38:49.50	37° 27.25'	114° 12.83'	11.3*	1.3	12	125	32	0.22
190224	08:59:39.16	37° 46.39'	113° 08.00'	10.4	1.6W	12	196	12	0.16
190224	09:03:35.73	37° 47.68'	113° 07.52'	12.8*	2.0W	15	54	28	0.15
190224	09:26:18.93	38° 58.11'	111° 19.01'	-3.5	1.4	7	107	5	0.05
190224	11:19:14.54	38° 50.85'	111° 24.23'	-0.3	1.9	11	125	8	0.07
190224	12:02:14.47	40° 27.79'	111° 56.14'	6.5	1.1	20	71	2	0.13
190224	12:50:00.85	40° 28.87'	111° 56.63'	7.1	0.3	9	124	3	0.13
190224	17:12:47.16	40° 14.93'	111° 50.43'	12.8	1.0	24	75	14	0.18
190224	21:34:27.53	40° 28.38'	111° 56.10'	7.2	1.4W	24	67	3	0.11
190225	00:27:42.42	38° 50.41'	111° 25.95'	4.1	1.5	10	104	7	0.12
190225	03:33:27.10	40° 28.60'	111° 55.67'	6.6	1.5W	29	53	3	0.16
190225	03:43:05.13	40° 28.51'	111° 55.98'	7.1	1.6W	34	49	3	0.16
190225	04:32:41.82	40° 27.97'	111° 56.40'	7.4	0.8	11	124	2	0.10
190225	10:52:40.19	38° 50.51'	111° 25.00'	2.4	1.5	9	147	7	0.05
190225	11:01:38.44	38° 50.26'	111° 24.08'	2.4	0.9	12	130	7	0.12
190225	12:26:20.11	41° 53.71'	111° 49.61'	1.7*	1.4W	15	73	11	0.12
190225	12:38:18.74	40° 28.05'	111° 56.14'	6.6	1.2	15	69	2	0.13
190225	15:04:38.76	40° 28.71'	111° 56.30'	6.2	1.3	12	66	3	0.13
190225	15:35:16.49	39° 24.10'	110° 18.14'	-2.1	1.4W	10	201	3	0.09
190225	16:17:23.31	41° 53.81'	111° 48.92'	0.5*	1.2	15	75	11	0.15
190225	17:47:23.43	39° 24.23'	110° 17.45'	3.4*	1.5W	8	204	25	0.12
190225	20:16:50.03	38° 50.70'	111° 23.85'	-0.1	2.3W	24	104	8	0.16
190225	20:17:14.48	38° 49.61'	111° 22.78'	2.6	2.6	10	121	6	0.11
190225	20:24:45.51	38° 50.79'	111° 24.81'	0.2	0.9W	13	102	7	0.11
190225	20:44:01.74	38° 50.10'	111° 25.89'	5.8	1.2	10	162	6	0.12
190225	20:53:23.59	38° 50.89'	111° 24.39'	-0.7	1.3W	16	123	8	0.09
190225	20:54:07.32	38° 50.01'	111° 24.94'	6.4	1.6	11	120	6	0.07
190225	20:56:01.18	38° 50.92'	111° 25.19'	0.1	1.3W	14	113	8	0.12
190225	20:56:01.35	38° 50.59'	111° 24.79'	1.6	1.6	16	120	7	0.13
190225	21:03:29.22	38° 50.62'	111° 24.00'	0.0	1.1	10	129	7	0.08
190225	21:23:31.15	38° 50.86'	111° 24.41'	-0.6	2.0	10	141	8	0.09
190225	21:34:01.97	38° 50.76'	111° 25.26'	1.5	1.3	9	116	7	0.08
190225	21:51:29.24	38° 51.04'	111° 25.58'	-0.6	1.7	13	116	8	0.25
190225	22:28:32.88	38° 50.32'	111° 25.50'	4.7	1.7	10	156	7	0.06
190225	22:48:40.10	38° 50.57'	111° 25.57'	1.8	1.4	10	172	7	0.08
190226	00:19:21.96	38° 50.72'	111° 22.53'	-1.7	1.1W	11	143	8	0.11
190226	00:48:45.39	38° 50.79'	111° 25.82'	1.6	1.5	10	175	7	0.11
190226	01:01:14.72	40° 21.28'	111° 25.46'	7.7	0.9	16	136	11	0.25
190226	01:06:51.30	38° 50.59'	111° 24.80'	2.1	0.9W	11	120	7	0.05
190226	01:08:10.06	39° 24.70'	110° 21.02'	-2.2	1.7	6	148	3	0.05

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190226	01:14:32.66	38° 50.24'	111° 24.31'	3.0	0.8W	10	137	7	0.08
190226	01:24:35.42	39° 24.17'	110° 17.91'	-2.7	1.9	8	202	3	0.08
190226	03:37:36.73	39° 24.18'	110° 18.37'	-2.1	1.8	10	200	3	0.08
190226	04:17:30.77	38° 50.55'	111° 25.31'	2.7	1.4	8	195	7	0.06
190226	05:33:12.28	39° 23.92'	110° 16.47'	-3.4	1.8	12	210	5	0.13
190226	11:13:38.01	38° 50.49'	111° 24.58'	2.1	1.3	9	141	7	0.05
190226	12:05:33.18	38° 50.56'	111° 23.87'	0.5	1.3W	8	130	7	0.06
190226	12:17:15.62	38° 50.88'	111° 23.64'	-1.5	1.4	8	131	8	0.08
190226	12:18:52.45	38° 50.48'	111° 25.94'	4.5	0.9	7	162	7	0.01
190226	12:32:31.26	38° 50.79'	111° 23.48'	-0.7	1.1W	11	133	8	0.09
190226	13:16:10.52	40° 36.66'	110° 41.11'	-0.3	2.4W	24	138	10	0.18
190226	18:13:32.28	39° 24.46'	110° 18.21'	-2.1	1.4W	10	200	3	0.11
190226	19:35:01.16	39° 23.88'	110° 16.94'	-3.3	1.9	7	207	5	0.19
190226	20:05:20.44	39° 23.89'	110° 17.57'	-3.3	1.8W	12	204	4	0.15
190226	22:24:06.00	39° 24.96'	110° 21.16'	-2.6	1.6	7	137	3	0.10
190227	01:31:41.93	39° 24.50'	110° 18.01'	-2.7	1.8	10	201	3	0.13
190227	02:17:06.40	39° 24.45'	110° 17.64'	-2.2	2.0	13	203	3	0.19
190227	02:54:46.22	39° 15.83'	111° 28.21'	6.5	0.6	6	123	9	0.05
190227	03:05:18.85	37° 29.25'	113° 51.68'	8.8	1.8	14	124	3	0.31
190227	07:36:46.07	39° 23.53'	110° 14.09'	5.3*	1.6W	7	239	29	0.16
190227	08:07:42.90	39° 24.18'	110° 16.54'	-3.3	1.8	9	209	5	0.12
190227	08:42:29.27	38° 49.84'	111° 23.39'	3.5	1.6	10	141	6	0.12
190227	13:00:36.69	38° 50.62'	111° 23.10'	-1.0	1.7	9	138	8	0.08
190227	13:12:57.40	38° 50.08'	111° 23.98'	1.2	1.5	9	149	6	0.11
190227	13:30:52.43	38° 51.04'	111° 23.08'	-2.1	1.3W	13	136	9	0.16
190227	19:00:27.25	39° 24.09'	110° 16.63'	-3.4	1.7W	9	208	5	0.23
190227	19:47:26.41	38° 49.94'	111° 24.96'	7.2	1.7	9	188	6	0.04
190227	23:32:53.11	39° 23.66'	110° 16.97'	-3.4	1.6W	9	207	5	0.26
190228	00:00:36.26	39° 24.14'	110° 17.90'	-2.2	1.9	8	202	3	0.06
190228	05:03:07.31	38° 50.52'	111° 23.88'	3.2	2.3W	23	130	7	0.18
190228	08:19:11.48	38° 50.55'	111° 24.09'	-0.5	1.1W	10	128	7	0.16
190228	08:19:15.27	38° 50.29'	111° 23.42'	0.8	1.1W	11	138	7	0.17
190228	10:14:20.84	38° 50.32'	111° 23.29'	0.2	1.4	9	139	7	0.09
190228	10:15:10.17	38° 50.52'	111° 23.21'	-0.9	1.5	8	138	8	0.09
190228	17:32:25.91	38° 50.39'	111° 23.86'	1.9	1.3	8	171	7	0.02
190228	21:31:50.67	41° 51.48'	112° 22.36'	8.9	2.6W	34	84	9	0.12
190228	23:36:21.33	38° 50.71'	111° 23.61'	-0.8	1.9	16	132	8	0.07
190301	08:45:06.96	40° 29.04'	111° 55.95'	5.9	0.9	22	57	4	0.18
190301	10:39:40.62	38° 43.24'	112° 30.18'	10.3	1.8W	27	62	13	0.16
190301	11:24:07.88	38° 50.81'	111° 25.88'	5.4	1.3	10	160	7	0.15
190301	15:31:27.74	39° 21.59'	111° 25.04'	18.6	0.9	16	94	19	0.18
190301	17:34:32.81	37° 12.81'	114° 12.23'	0.8*	1.3	10	183	41	0.14
190301	18:04:55.69	39° 18.60'	111° 12.86'	-1.1	1.2	7	111	2	0.07
190301	20:03:32.29	40° 28.02'	111° 56.08'	6.2	1.5	35	62	2	0.13
190301	22:38:41.15	38° 50.65'	111° 24.46'	-0.3	1.2W	13	124	7	0.24

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190302	02:57:59.32	37° 30.14'	113° 50.96'	7.0	2.6W	16	76	5	0.12
190302	02:59:06.33	37° 31.17'	113° 50.87'	0.1	1.8	10	83	6	0.08
190302	03:28:26.89	37° 29.44'	113° 51.23'	7.1	1.8W	13	81	3	0.15
190302	07:15:51.52	40° 28.06'	111° 56.29'	6.8	0.9	25	80	2	0.14
190302	07:47:15.88	37° 30.49'	113° 51.03'	8.1	1.5	11	78	5	0.24
190302	14:10:24.10	38° 49.78'	111° 24.88'	0.6	1.2	12	122	6	0.16
190302	14:11:11.21	39° 42.25'	110° 39.65'	-2.8	0.6	5	199	7	0.01
190302	19:12:17.12	38° 58.22'	111° 19.14'	-3.0	1.2	6	106	5	0.03
190303	03:03:26.91	38° 50.35'	111° 24.94'	3.1	2.0W	22	81	7	0.15
190303	03:24:48.49	40° 28.81'	111° 56.10'	6.2	0.9	24	45	3	0.15
190303	03:24:51.23	40° 29.67'	111° 55.55'	1.5	1.5	16	108	5	0.12
190303	07:15:08.70	38° 50.00'	111° 23.21'	2.0	1.6	18	83	7	0.18
190303	08:32:35.40	40° 32.07'	110° 59.23'	9.1*	0.9	15	135	19	0.17
190303	09:52:38.19	40° 27.47'	111° 55.96'	7.5	0.9	19	97	2	0.11
190303	16:10:22.60	37° 29.62'	113° 50.96'	6.5	3.0W	22	51	4	0.15
190303	16:11:51.93	37° 30.54'	113° 50.64'	3.7	2.4W	13	74	5	0.21
190303	16:16:08.42	37° 30.63'	113° 49.67'	3.3	1.8	13	74	6	0.18
190303	17:04:07.44	37° 29.69'	113° 51.39'	6.3	1.9	18	74	4	0.16
190303	17:38:53.48	37° 29.55'	113° 51.41'	9.2	1.4	11	87	3	0.24
190303	18:56:55.38	40° 28.06'	111° 56.39'	6.4	0.9	18	53	2	0.16
190304	03:32:09.22	40° 27.76'	111° 56.01'	8.1	1.0	20	100	2	0.12
190304	12:23:58.39	38° 50.64'	111° 23.65'	-0.7	1.6	12	89	8	0.12
190304	12:27:33.13	38° 50.62'	111° 24.33'	0.3	1.6	12	81	7	0.07
190304	12:49:57.10	37° 29.74'	113° 51.93'	8.5	1.5	14	97	4	0.21
190304	13:27:58.04	40° 27.96'	111° 55.96'	6.9	1.3	14	83	2	0.14
190304	15:32:30.99	38° 50.48'	111° 24.67'	2.5	1.5W	18	81	7	0.15
190304	17:09:53.71	38° 50.27'	111° 24.57'	4.3	1.5W	22	81	7	0.11
190304	17:22:51.74	38° 16.82'	108° 54.66'	0.8	4.5M	13	95	4	0.18
190304	17:41:55.64	38° 16.77'	108° 54.51'	1.3	2.0	11	83	4	0.07
190304	18:19:29.38	38° 17.20'	108° 54.92'	0.3	1.6	10	107	4	0.12
190304	19:05:00.50	38° 16.73'	108° 54.35'	1.1	2.0	12	83	4	0.07
190304	19:09:16.58	38° 16.69'	108° 54.14'	1.2	2.1	14	84	3	0.12
190304	19:13:51.47	38° 16.96'	108° 53.79'	1.5	1.8	11	84	3	0.05
190304	19:23:14.43	38° 17.08'	108° 53.89'	1.3	2.0	11	83	3	0.09
190304	20:43:07.00	40° 27.65'	111° 56.34'	9.6	1.2	15	145	1	0.14
190304	20:46:29.61	40° 28.70'	111° 56.50'	5.4	0.9	16	46	3	0.13
190304	22:32:17.28	38° 51.07'	111° 25.06'	-1.0	1.6	8	114	8	0.04
190305	00:12:22.52	38° 50.19'	111° 24.20'	0.5	1.4	10	89	7	0.08
190305	03:26:07.59	38° 13.70'	112° 22.32'	3.5*	1.0	12	145	26	0.15
190305	07:16:59.65	38° 50.37'	111° 23.54'	0.1	1.1	14	88	7	0.21
190305	07:55:22.23	40° 28.23'	111° 56.49'	6.6	1.8W	34	43	2	0.17
190305	07:57:26.12	40° 28.29'	111° 55.82'	7.7	0.8	27	74	3	0.14
190305	08:04:34.08	40° 28.18'	111° 56.62'	7.5	2.5W	43	41	2	0.21
190305	08:39:16.27	40° 28.25'	111° 56.10'	6.8	1.1	13	122	2	0.14
190305	09:15:14.14	40° 27.94'	111° 55.77'	7.6	0.8	15	141	2	0.10



**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190305	11:24:58.06	38° 50.97'	111° 25.45'	0.0	1.2	11	109	8	0.09
190305	11:38:53.00	40° 28.00'	111° 55.87'	7.6	0.6	9	167	2	0.07
190305	12:08:18.96	40° 28.41'	111° 55.95'	6.2	1.0	15	68	3	0.12
190305	13:00:35.97	40° 28.30'	111° 56.23'	6.6	1.1	13	116	2	0.15
190305	14:12:10.58	40° 28.02'	111° 56.48'	7.6	0.8	10	119	2	0.13
190305	15:19:12.43	38° 48.16'	112° 11.48'	6.6*	1.5W	17	100	20	0.20
190305	16:45:56.87	40° 27.72'	111° 56.10'	7.7	0.9	18	102	2	0.11
190305	20:22:41.58	38° 50.35'	111° 24.01'	2.6	1.5W	24	81	7	0.16
190306	02:05:44.19	38° 50.50'	111° 25.75'	1.6	1.2	7	175	7	0.09
190306	02:57:57.99	38° 50.65'	111° 25.33'	2.9	1.5	8	168	7	0.05
190306	06:21:43.44	38° 50.66'	111° 26.69'	3.1	1.5	9	119	7	0.04
190306	06:45:43.95	38° 43.76'	112° 29.34'	8.0	2.2W	25	64	14	0.21
190306	07:28:31.86	39° 24.24'	110° 17.78'	-2.4	1.6W	15	203	3	0.18
190306	07:49:54.89	38° 17.02'	108° 54.57'	1.1	2.1	11	82	4	0.03
190306	08:39:26.52	38° 58.06'	111° 18.41'	-3.4	1.5	7	101	6	0.26
190306	15:49:20.66	38° 17.22'	108° 54.68'	1.0	2.3W	15	82	4	0.09
190306	15:57:52.31	38° 16.85'	108° 54.43'	0.8	2.3	15	83	4	0.15
190306	22:33:53.43	38° 50.14'	111° 24.11'	1.2	1.0W	15	105	6	0.15
190307	02:09:33.16	37° 05.40'	113° 28.76'	5.7*	1.1	8	136	12	0.05
190307	02:59:27.80	40° 29.03'	111° 55.96'	5.1	0.9	10	83	4	0.14
190307	06:22:07.90	40° 28.72'	111° 56.18'	4.9	1.5W	15	90	3	0.15
190307	08:17:18.90	38° 16.88'	108° 54.77'	0.4	1.7	10	83	4	0.09
190307	11:20:47.37	38° 50.22'	111° 23.47'	0.5	1.1W	9	138	7	0.05
190307	15:35:11.36	38° 05.53'	112° 46.47'	6.2*	3.0W	31	54	20	0.23
190307	16:37:15.71	38° 05.56'	112° 46.48'	5.7*	2.2W	28	54	20	0.23
190307	21:57:18.11	40° 27.99'	111° 56.59'	6.5	0.9	12	76	2	0.14
190308	03:48:53.10	38° 50.41'	111° 24.99'	3.0	1.6W	17	118	7	0.14
190308	04:01:17.60	38° 51.38'	111° 24.42'	-3.4	1.1W	11	141	9	0.08
190308	04:56:33.76	38° 50.45'	111° 25.19'	1.7	1.1	9	150	7	0.07
190308	06:52:30.95	38° 50.91'	111° 25.70'	-0.4	1.6	11	106	8	0.20
190308	07:27:33.05	38° 50.62'	111° 25.79'	1.6	1.4	9	138	7	0.09
190308	07:39:25.98	38° 50.42'	111° 24.43'	1.6	0.9W	13	125	7	0.10
190308	09:18:18.26	38° 16.87'	108° 53.92'	1.2	2.3	14	84	3	0.07
190308	12:07:14.75	38° 50.50'	111° 25.61'	2.9	2.0W	24	108	7	0.12
190308	12:11:04.54	38° 50.27'	111° 25.33'	1.3	1.6	13	114	6	0.10
190308	15:17:54.20	38° 16.77'	108° 54.72'	0.5	1.7	9	83	4	0.05
190308	15:50:14.58	38° 16.50'	108° 54.88'	-0.1	1.5	10	84	5	0.12
190308	16:05:17.56	38° 50.33'	111° 24.96'	3.9	1.1W	10	147	7	0.06
190308	16:35:24.88	40° 27.68'	111° 56.52'	6.5	1.3W	21	83	1	0.12
190308	18:33:40.62	38° 50.44'	111° 25.44'	2.2	1.3	7	155	7	0.11
190308	20:06:23.31	38° 42.69'	112° 30.34'	5.1*	1.1	9	80	12	0.14
190308	20:18:01.72	38° 42.80'	112° 30.02'	1.2*	1.4	15	102	12	0.20
190308	22:05:03.11	38° 48.82'	111° 34.07'	19.6	2.5W	29	54	13	0.14
190309	01:35:39.34	38° 42.52'	112° 29.99'	8.0	1.9W	17	70	12	0.20
190309	01:43:05.05	38° 42.53'	112° 30.97'	6.6	1.4	14	103	13	0.11

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190309	05:51:13.06	38° 05.47'	112° 45.68'	5.4*	1.8W	18	87	21	0.15
190309	06:55:42.60	38° 50.26'	111° 24.99'	1.2	1.0W	12	118	6	0.11
190309	07:32:16.79	38° 50.48'	111° 25.02'	0.6	1.2	7	117	7	0.04
190309	08:39:51.63	38° 50.66'	111° 23.79'	-0.7	0.9	10	131	8	0.10
190309	08:41:05.33	38° 50.15'	111° 26.16'	7.3	1.3W	17	102	6	0.21
190309	11:13:25.91	39° 24.33'	110° 17.86'	-2.6	1.7W	14	201	3	0.11
190309	14:10:03.92	38° 17.57'	108° 55.35'	0.3	1.4	11	89	4	0.11
190309	15:40:48.51	41° 34.62'	112° 50.99'	8.6*	0.9	15	183	23	0.14
190309	19:17:51.26	38° 44.12'	112° 30.15'	6.1*	1.0	14	86	15	0.17
190309	19:19:48.48	38° 16.95'	108° 54.22'	1.1	2.0W	15	84	3	0.13
190310	02:46:47.31	39° 24.25'	111° 04.25'	1.1	1.5W	12	93	10	0.10
190310	03:42:31.83	39° 30.11'	111° 10.64'	1.8*	1.5	11	114	16	0.17
190310	05:37:23.46	38° 50.93'	111° 25.44'	0.0	1.3W	9	109	8	0.07
190310	05:38:56.91	38° 50.56'	111° 24.82'	0.5	1.1W	9	120	7	0.08
190310	10:21:14.82	38° 25.22'	112° 50.63'	5.2	0.8	9	144	5	0.05
190310	21:30:58.39	36° 56.97'	112° 29.48'	19.8	1.7	9	146	12	0.10
190311	03:32:35.40	38° 50.39'	111° 23.31'	-0.1	1.1W	9	138	7	0.10
190311	03:44:57.93	38° 50.41'	111° 23.21'	-0.1	1.2W	8	139	7	0.06
190311	04:17:59.66	38° 50.11'	111° 24.07'	1.6	1.0W	8	131	6	0.08
190311	05:54:07.19	38° 50.51'	111° 25.12'	0.7	1.4	15	116	7	0.13
190311	07:19:02.77	39° 24.15'	110° 18.65'	-1.6	1.6	10	198	3	0.03
190311	08:47:42.94	38° 16.76'	108° 54.36'	1.1	2.0	14	83	4	0.09
190311	10:43:39.32	38° 50.58'	111° 24.91'	2.7	2.0W	22	119	7	0.15
190311	11:14:32.71	38° 16.73'	108° 54.10'	1.8	2.2	15	84	3	0.10
190311	17:48:07.03	41° 40.85'	112° 03.50'	-1.6	1.0	12	68	7	0.18
190311	20:04:34.74	38° 50.48'	111° 25.04'	0.7	1.1W	11	103	7	0.15
190311	20:06:47.54	39° 40.73'	110° 30.41'	-1.5	1.6W	5	178	7	0.06
190312	06:38:29.86	38° 50.02'	111° 23.36'	2.7	0.8W	11	140	7	0.09
190312	07:04:32.39	40° 28.45'	111° 55.91'	6.1	0.8	22	69	3	0.15
190312	11:42:34.91	38° 50.60'	111° 25.54'	1.6	1.3	7	137	7	0.14
190313	05:08:10.04	38° 16.88'	108° 53.80'	1.7	2.4W	16	84	3	0.10
190313	09:11:51.16	39° 02.99'	110° 56.95'	2.6*	1.3W	17	114	24	0.07
190313	12:47:27.95	38° 17.07'	108° 54.03'	1.1	2.2	12	83	3	0.10
190313	15:04:25.24	38° 50.69'	111° 25.80'	-1.6	1.5	7	105	7	0.24
190313	16:17:45.84	40° 27.84'	111° 56.24'	6.5	1.5	27	82	2	0.16
190313	20:40:51.19	39° 24.01'	110° 17.72'	-2.7	2.0	9	203	4	0.18
190314	05:30:14.65	39° 24.38'	110° 17.79'	-3.0	2.0W	14	201	3	0.12
190314	06:45:47.88	38° 50.91'	111° 24.93'	-0.5	1.4W	19	117	8	0.19
190314	06:46:35.35	39° 02.88'	110° 56.91'	2.2*	2.0W	20	146	24	0.09
190314	06:47:25.37	38° 50.61'	111° 25.52'	1.6	2.0W	18	109	7	0.14
190314	06:58:41.36	38° 50.59'	111° 24.06'	-0.8	1.9	8	128	7	0.04
190314	07:40:46.06	39° 24.43'	110° 19.31'	-1.1	1.7W	14	194	2	0.05
190314	09:14:57.70	38° 50.24'	111° 24.50'	3.6	1.4	8	124	7	0.24
190314	10:02:56.41	38° 41.56'	111° 26.54'	2.0	1.5	6	194	10	0.18
190314	13:10:46.95	39° 03.26'	110° 57.60'	16.1	1.9W	23	118	24	0.24

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190314	13:43:01.95	37° 30.49'	113° 50.39'	6.4	2.4	13	68	5	0.18
190314	13:44:51.49	37° 30.47'	113° 50.48'	7.0	2.7W	18	69	5	0.18
190314	13:53:42.13	40° 44.88'	111° 58.02'	2.9	0.9	11	73	2	0.17
190314	14:01:21.21	37° 29.19'	113° 51.97'	8.1	1.6	9	151	3	0.12
190314	19:45:45.22	39° 03.12'	110° 57.53'	8.2*	1.5W	15	152	24	0.17
190314	19:47:22.27	39° 02.72'	110° 57.75'	16.9	1.8W	18	154	23	0.22
190314	19:59:33.78	39° 24.33'	110° 17.57'	-3.0	1.6W	11	203	3	0.12
190314	20:14:36.93	38° 16.70'	108° 54.07'	1.2	1.7	11	84	3	0.12
190314	21:23:47.60	39° 02.89'	110° 57.01'	5.8*	--	8	155	24	0.06
190314	21:23:50.11	39° 02.53'	110° 56.94'	7.5*	1.5W	12	157	24	0.04
190314	21:24:43.74	39° 02.93'	110° 57.11'	2.4*	1.5W	16	154	24	0.05
190314	22:34:22.36	38° 43.43'	112° 29.37'	10.6	1.1	14	71	13	0.15
190314	23:53:45.06	39° 02.96'	110° 56.87'	6.0*	1.6W	17	155	24	0.14
190315	00:17:17.22	39° 03.00'	110° 57.03'	3.2*	1.2W	13	154	24	0.05
190315	01:01:36.32	39° 24.44'	110° 18.59'	-1.5	1.6W	9	198	2	0.08
190315	02:51:47.18	39° 02.74'	110° 56.86'	2.5*	1.2W	14	156	24	0.06
190315	02:57:48.72	39° 02.53'	110° 56.67'	1.1*	1.5W	16	116	24	0.10
190315	03:14:52.67	38° 50.98'	111° 25.41'	1.6	1.7	7	139	8	0.12
190315	05:26:23.51	39° 02.96'	110° 57.07'	3.9*	1.6W	17	154	24	0.10
190315	06:08:51.62	39° 02.78'	110° 56.87'	3.5*	1.2W	15	156	24	0.07
190315	06:14:08.71	39° 02.22'	110° 57.39'	16.4	1.9W	17	158	23	0.18
190315	06:25:46.79	39° 02.77'	110° 56.89'	4.3*	1.6W	18	115	24	0.06
190315	06:59:03.26	38° 50.08'	111° 22.86'	0.0	1.8	10	145	7	0.10
190315	08:16:17.41	39° 02.45'	110° 57.28'	17.0	2.1W	26	147	23	0.21
190315	08:33:35.77	39° 02.67'	110° 56.90'	4.8*	1.6W	19	119	24	0.05
190315	08:41:27.09	39° 02.93'	110° 57.02'	2.8*	0.9W	12	154	24	0.05
190315	10:07:38.85	39° 02.81'	110° 57.06'	1.3*	1.2W	15	156	24	0.05
190315	10:11:46.77	39° 02.83'	110° 57.08'	3.1*	1.2W	12	155	24	0.05
190315	10:35:10.69	39° 02.71'	110° 57.01'	5.5*	2.0W	24	106	24	0.10
190315	12:05:26.61	39° 01.96'	110° 57.27'	16.9	1.5W	19	160	23	0.19
190315	12:33:57.04	39° 02.90'	110° 57.58'	17.0	2.7W	29	106	23	0.23
190315	12:39:10.79	39° 02.83'	110° 56.91'	1.2*	1.4W	19	156	24	0.06
190315	15:09:07.91	39° 02.82'	110° 56.85'	2.6*	1.0W	12	156	24	0.06
190315	15:36:41.60	39° 02.79'	110° 57.24'	7.2*	1.3W	15	154	24	0.12
190315	16:34:59.30	39° 02.63'	110° 57.19'	15.4	2.0W	24	106	24	0.25
190315	18:01:30.75	39° 02.76'	110° 57.02'	3.1*	1.2W	13	156	24	0.05
190315	20:18:36.17	39° 02.77'	110° 56.96'	3.4*	1.1W	13	156	24	0.05
190315	21:15:17.33	39° 02.91'	110° 57.00'	2.4*	0.7W	10	154	24	0.06
190315	21:59:34.07	39° 02.92'	110° 57.01'	3.2*	1.7W	19	119	24	0.07
190315	22:17:44.90	39° 02.79'	110° 56.92'	3.0*	1.9W	22	79	24	0.11
190315	22:30:36.33	39° 02.83'	110° 56.98'	1.8*	1.4W	19	146	24	0.08
190316	00:44:22.80	38° 05.13'	112° 47.44'	8.7*	1.6W	17	85	18	0.11
190316	01:07:44.05	39° 02.90'	110° 56.87'	4.7*	1.1W	14	155	24	0.05
190316	01:20:26.63	39° 02.88'	110° 56.88'	3.1*	1.1W	13	155	24	0.04
190316	01:23:59.59	39° 02.90'	110° 56.84'	3.6*	1.3W	14	155	24	0.05

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190316	01:29:54.39	39° 04.53'	111° 51.15'	20.2	1.3	11	95	22	0.19
190316	01:41:08.32	40° 27.94'	111° 56.15'	7.3	1.1	24	88	2	0.15
190316	02:27:50.65	40° 28.40'	111° 55.93'	6.2	0.7	15	70	3	0.12
190316	05:04:15.84	40° 49.38'	112° 08.90'	6.7	0.8	13	116	5	0.09
190316	05:28:05.68	39° 02.41'	110° 56.51'	5.1*	2.8W	34	92	24	0.15
190316	06:02:25.10	39° 02.81'	110° 56.81'	3.1*	0.9W	12	156	24	0.06
190316	06:28:14.19	39° 02.81'	110° 56.86'	3.5*	1.1W	13	156	24	0.04
190316	06:39:14.67	39° 02.60'	110° 56.81'	7.1*	2.1W	23	106	24	0.10
190316	06:48:02.58	38° 27.90'	112° 47.81'	3.8	0.4	13	164	6	0.08
190316	13:18:36.02	39° 42.28'	110° 44.20'	1.5*	1.5	9	80	13	0.15
190316	19:23:16.72	38° 28.13'	112° 47.56'	2.3	0.2	13	164	6	0.06
190316	19:54:18.05	39° 41.58'	112° 05.13'	1.8*	1.3	12	81	29	0.24
190316	22:44:31.57	39° 49.15'	111° 51.83'	2.0	2.0W	27	89	10	0.20
190316	23:43:31.17	38° 50.82'	111° 24.68'	-0.1	1.2	10	107	8	0.09
190317	01:54:43.93	39° 02.79'	110° 56.89'	0.9*	1.3W	18	156	24	0.06
190317	03:47:20.73	39° 02.78'	110° 56.91'	2.1*	1.1W	14	156	24	0.06
190317	04:48:12.06	39° 16.41'	111° 55.73'	8.3*	1.5	10	97	24	0.19
190317	04:59:15.78	39° 15.78'	111° 56.42'	8.8*	1.5	11	82	20	0.15
190317	05:41:30.83	39° 15.68'	111° 56.47'	1.6*	1.4	14	65	19	0.21
190317	13:51:30.47	39° 05.34'	110° 58.92'	9.7*	1.0	8	135	25	0.23
190317	14:13:33.76	39° 02.93'	110° 57.06'	1.7*	0.9W	14	154	24	0.05
190317	14:59:36.36	39° 02.95'	110° 57.00'	2.1*	1.1W	13	154	24	0.06
190317	15:31:44.25	39° 02.95'	110° 57.18'	2.3*	1.5W	22	104	24	0.06
190317	16:28:03.07	40° 28.11'	111° 56.62'	8.7	2.3W	42	42	2	0.19
190317	16:37:14.53	40° 29.27'	111° 55.56'	3.0	0.9	17	66	4	0.14
190317	16:39:43.49	40° 28.63'	111° 56.33'	6.9	1.0	25	54	3	0.17
190317	16:43:15.15	40° 28.23'	111° 56.39'	8.2	1.1	21	59	2	0.11
190317	16:43:46.42	40° 28.59'	111° 55.95'	5.6	1.0	22	64	3	0.21
190317	17:00:00.96	40° 28.54'	111° 56.55'	7.7	1.0	17	58	3	0.11
190317	17:09:17.28	40° 27.93'	111° 56.02'	8.8	0.8	18	90	2	0.13
190317	20:50:59.24	39° 02.84'	110° 56.98'	4.2*	1.2	17	155	24	0.13
190317	20:52:25.20	39° 02.94'	110° 57.73'	17.2	2.6W	27	79	23	0.24
190317	21:04:52.08	40° 28.42'	111° 55.98'	7.8	0.9	16	69	3	0.13
190317	22:26:22.80	39° 02.66'	110° 57.38'	15.6	1.8W	19	156	23	0.23
190317	22:31:03.00	39° 02.90'	110° 57.35'	15.3	1.5W	20	154	24	0.23
190317	23:02:58.73	39° 02.96'	110° 57.61'	17.3	2.2W	26	106	23	0.23
190318	00:05:57.07	39° 27.71'	111° 09.85'	1.7*	1.5	9	106	18	0.18
190318	01:38:12.08	39° 02.71'	110° 57.43'	15.8	1.6W	18	114	23	0.22
190318	01:42:09.00	39° 24.46'	110° 19.15'	-1.1	1.5W	13	195	2	0.05
190318	02:36:21.06	42° 08.04'	112° 17.09'	2.1*	1.3	18	138	18	0.13
190318	03:21:24.68	39° 02.80'	110° 57.00'	3.0*	1.1W	13	156	24	0.05
190318	04:00:25.28	39° 16.20'	111° 55.46'	6.0*	1.7W	19	74	21	0.28
190318	12:35:19.67	39° 02.91'	110° 57.22'	3.6*	1.3W	14	154	24	0.06
190318	12:46:10.36	39° 02.80'	110° 57.78'	16.1	2.3W	23	119	23	0.20
190318	14:36:00.51	39° 02.87'	110° 57.15'	2.6*	1.5W	18	154	24	0.08

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190318	16:47:49.13	39° 02.87'	110° 56.94'	2.2*	1.3W	13	155	24	0.06
190318	19:58:21.61	39° 24.34'	110° 19.27'	-0.9	1.8	13	195	2	0.11
190318	21:04:36.21	39° 02.69'	110° 57.26'	9.2*	1.6W	17	147	24	0.11
190318	22:30:48.10	41° 51.87'	112° 40.75'	4.1*	0.9	6	161	12	0.05
190318	23:10:12.44	39° 02.93'	110° 57.12'	3.0*	1.0W	10	154	24	0.05
190318	23:15:33.67	39° 02.85'	110° 57.12'	2.8*	1.1W	14	154	24	0.04
190319	01:25:23.98	39° 24.54'	110° 19.18'	-1.2	1.8W	13	195	2	0.04
190319	05:40:08.05	39° 02.95'	110° 57.05'	2.8*	1.9W	21	154	24	0.11
190319	06:55:46.86	39° 02.96'	110° 57.52'	15.2	1.6W	19	106	24	0.23
190319	07:01:47.18	39° 24.30'	110° 18.91'	-1.4	2.1	11	196	2	0.10
190319	11:43:44.20	39° 07.47'	111° 48.50'	17.0	2.2W	28	58	16	0.20
190319	14:17:48.61	39° 02.91'	110° 57.19'	2.7*	1.2W	15	154	24	0.05
190319	14:20:14.48	39° 23.32'	111° 53.52'	11.5	1.1	10	118	15	0.15
190319	20:59:02.28	39° 24.23'	110° 18.30'	-2.0	1.4W	13	200	3	0.11
190319	22:48:20.66	39° 02.81'	110° 56.89'	2.9*	1.4W	16	156	24	0.12
190319	22:50:01.76	39° 02.88'	110° 56.91'	2.2*	1.4W	16	155	24	0.09
190319	23:28:10.98	39° 40.54'	111° 36.79'	15.2	1.0	14	92	26	0.13
190319	23:32:23.53	39° 40.76'	111° 36.15'	9.9*	0.8	12	90	26	0.22
190320	01:14:29.65	39° 24.31'	110° 18.77'	-1.4	1.4W	13	197	2	0.06
190320	05:03:50.15	39° 24.35'	110° 18.92'	-1.4	1.4W	10	196	2	0.04
190320	05:40:58.85	39° 24.43'	110° 19.27'	-1.2	1.1W	7	195	2	0.02
190320	09:30:17.76	38° 50.46'	111° 24.74'	1.0	0.9W	11	121	7	0.13
190320	11:07:25.59	42° 09.52'	112° 16.65'	1.0*	1.1	14	147	19	0.22
190320	12:11:52.60	39° 16.38'	111° 56.08'	14.1	1.8	13	81	21	0.17
190320	15:08:17.06	39° 24.40'	110° 18.90'	-1.5	1.9W	13	196	2	0.04
190320	17:25:36.79	38° 43.76'	112° 29.01'	8.7	2.4W	31	59	14	0.20
190320	18:17:48.46	39° 15.17'	111° 56.47'	6.9*	2.3W	22	56	19	0.14
190320	18:23:34.19	39° 24.36'	110° 18.81'	-1.4	1.7W	8	197	2	0.05
190320	18:30:12.82	39° 15.70'	111° 55.90'	2.3*	1.6	11	83	20	0.16
190320	18:43:10.56	39° 16.33'	111° 56.10'	3.9*	1.6	15	82	20	0.13
190320	19:15:17.95	40° 27.93'	111° 55.80'	7.3	1.6W	28	73	2	0.13
190320	19:41:42.20	40° 28.12'	111° 56.19'	7.8	1.3	24	47	2	0.16
190320	21:27:31.39	41° 49.99'	112° 37.38'	3.0*	1.0	13	128	14	0.08
190321	00:45:50.33	39° 15.96'	111° 56.09'	6.0*	1.9W	17	55	20	0.17
190321	01:04:28.33	39° 15.51'	111° 56.56'	15.9	1.5	7	103	24	0.05
190321	01:24:16.98	37° 24.03'	113° 51.54'	0.2	1.7	12	79	7	0.10
190321	07:23:55.30	38° 50.64'	111° 25.13'	2.6	2.3W	20	115	7	0.14
190321	07:33:43.83	38° 50.75'	111° 24.88'	1.6	1.9W	15	118	7	0.13
190321	07:43:35.01	38° 50.35'	111° 24.70'	2.5	1.3W	14	122	7	0.12
190321	08:01:51.78	38° 50.23'	111° 25.62'	4.9	1.0W	9	109	6	0.27
190321	10:09:25.76	38° 49.96'	111° 23.96'	1.9	1.7	9	133	6	0.07
190321	10:46:22.66	39° 18.75'	111° 57.24'	4.3*	1.9W	22	71	20	0.20
190321	11:48:31.78	38° 50.58'	111° 24.16'	-0.3	1.4	10	127	7	0.09
190321	12:19:21.54	39° 02.81'	110° 56.77'	2.4*	1.2W	12	156	24	0.04
190321	12:21:55.38	38° 50.95'	111° 24.30'	-0.8	0.9W	10	123	8	0.08

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190321	14:01:41.72	37° 48.18'	112° 28.69'	3.6*	1.3	11	111	37	0.26
190321	14:38:56.52	39° 24.36'	110° 18.33'	-2.0	1.8W	15	199	3	0.09
190321	17:57:10.84	39° 02.86'	110° 56.79'	2.3*	1.2W	10	155	24	0.05
190321	18:10:14.08	41° 56.55'	111° 46.95'	4.1*	1.6W	23	73	15	0.16
190321	22:59:53.21	39° 02.57'	110° 56.80'	3.2*	1.7W	19	122	24	0.11
190321	23:00:33.53	39° 02.89'	110° 56.67'	4.3*	1.7W	15	155	24	0.12
190321	23:40:30.77	38° 50.57'	111° 26.01'	1.5	1.1W	13	103	7	0.15
190322	00:51:20.16	36° 57.39'	113° 31.16'	8.5	2.2W	22	136	13	0.20
190322	01:17:02.37	37° 00.79'	113° 30.12'	6.5*	0.6	9	199	23	0.06
190322	01:22:01.15	36° 58.02'	113° 31.07'	7.3	1.1	14	135	12	0.27
190322	09:34:06.48	40° 30.60'	112° 09.46'	2.7	1.8W	31	58	8	0.20
190322	10:56:15.41	38° 50.70'	111° 24.42'	-0.2	1.1W	14	124	7	0.09
190322	13:36:34.66	40° 27.59'	111° 57.03'	7.9	2.3W	45	43	1	0.21
190322	13:50:00.66	40° 27.93'	111° 56.43'	6.7	1.1	22	55	2	0.15
190322	14:41:38.09	39° 03.05'	110° 57.11'	3.6*	1.1W	13	154	24	0.04
190322	14:47:27.26	39° 03.16'	110° 57.17'	5.5*	0.9W	13	152	24	0.04
190322	15:22:07.41	40° 27.75'	111° 56.89'	8.4	2.2W	46	35	1	0.21
190323	02:12:11.22	39° 02.70'	110° 57.08'	3.3*	1.1W	15	156	24	0.06
190323	03:07:10.46	42° 23.50'	111° 24.55'	6.3	1.2	10	132	10	0.17
190323	03:29:41.96	38° 45.19'	111° 30.19'	5.9	1.7W	19	152	8	0.20
190323	03:33:21.40	38° 44.69'	111° 30.48'	1.8	1.5	8	183	8	0.14
190323	04:19:13.71	39° 02.96'	110° 56.84'	2.9*	1.6W	11	155	24	0.12
190323	04:32:44.16	39° 02.77'	110° 56.97'	2.6*	1.4	13	156	24	0.11
190323	10:25:49.36	39° 02.78'	110° 56.90'	5.4*	1.5	14	156	24	0.12
190323	19:25:19.51	38° 52.81'	110° 51.87'	3.7*	1.9	10	159	27	0.21
190323	19:39:27.90	40° 27.35'	111° 55.77'	7.6	1.2	14	154	2	0.11
190323	22:30:53.66	42° 08.60'	112° 16.82'	0.7*	1.1	12	181	18	0.16
190324	02:59:18.44	40° 28.14'	111° 56.10'	7.9	1.1	26	74	2	0.14
190324	07:09:10.67	40° 28.02'	111° 56.53'	8.1	1.2	25	64	2	0.18
190324	18:09:06.69	41° 29.45'	112° 22.94'	0.2*	1.5	17	94	11	0.19
190324	22:01:44.03	38° 45.05'	111° 30.61'	3.7	1.3W	10	101	8	0.04
190324	23:18:00.79	39° 03.05'	110° 56.86'	2.5*	1.5W	15	154	24	0.16
190324	23:18:20.46	39° 03.04'	110° 56.68'	2.9*	1.4	10	155	25	0.13
190325	00:13:23.58	39° 02.67'	110° 57.06'	3.0*	1.5	17	156	24	0.06
190325	02:58:49.68	39° 24.46'	110° 18.42'	-1.5	1.7W	13	185	2	0.12
190325	03:56:55.62	39° 24.27'	110° 18.63'	-1.8	1.9	9	198	3	0.04
190325	06:38:25.64	39° 24.50'	110° 19.37'	-1.1	1.9	13	193	2	0.04
190325	07:33:11.09	39° 02.90'	110° 57.01'	2.0*	1.2W	14	154	24	0.12
190325	08:20:29.26	42° 08.34'	112° 16.97'	2.9*	1.1	9	180	18	0.05
190325	08:23:02.84	42° 08.53'	112° 17.09'	3.9*	1.1	10	181	18	0.05
190325	11:38:04.14	39° 03.21'	110° 57.23'	4.5*	1.1W	13	152	24	0.07
190325	15:13:45.33	41° 31.71'	111° 40.24'	8.7	0.7	10	230	12	0.12
190325	15:16:52.97	39° 24.69'	110° 19.54'	-1.2	1.6W	13	113	1	0.11
190325	18:20:18.84	39° 24.30'	110° 18.28'	-2.0	2.1W	12	200	3	0.08
190326	00:35:49.70	39° 24.44'	110° 19.43'	-1.3	1.9W	11	193	2	0.05

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190326	02:35:20.22	39° 24.40'	110° 18.78'	-1.4	1.9W	17	103	2	0.10
190326	05:50:20.71	37° 56.48'	111° 48.91'	16.4	1.6W	11	221	21	0.16
190326	05:51:04.94	39° 24.54'	110° 19.41'	-1.2	1.9	7	193	2	0.05
190326	08:53:16.28	40° 27.22'	111° 55.88'	7.5	0.9	16	131	2	0.12
190326	15:02:09.21	39° 24.43'	110° 18.24'	-1.8	1.8W	14	200	3	0.07
190326	23:44:04.13	39° 16.11'	111° 56.84'	11.0	1.7	9	82	19	0.09
190326	23:49:19.87	39° 24.31'	110° 17.94'	-2.5	1.8W	11	186	3	0.10
190327	02:02:59.56	39° 16.48'	111° 55.16'	8.4*	1.5W	18	82	22	0.22
190327	02:25:19.86	39° 16.52'	111° 55.54'	13.8	1.8	11	89	24	0.14
190327	02:56:39.28	39° 24.24'	110° 18.05'	-2.1	1.8W	12	201	3	0.11
190327	03:02:44.15	39° 16.22'	111° 56.09'	14.7	1.5	11	91	20	0.19
190327	03:36:24.07	39° 16.15'	111° 55.91'	15.6	1.3	11	82	20	0.18
190327	03:48:48.39	39° 16.39'	111° 56.45'	2.8*	1.0	7	125	20	0.24
190327	03:48:51.03	39° 24.56'	110° 19.07'	-1.2	1.7	10	195	2	0.04
190327	04:39:46.19	39° 24.24'	110° 18.27'	-2.2	1.4W	11	200	3	0.13
190327	06:54:35.69	39° 24.33'	110° 18.62'	-1.7	1.8W	12	198	2	0.05
190327	12:11:42.09	39° 02.73'	110° 57.07'	2.8*	1.2W	16	156	24	0.10
190327	13:24:29.06	39° 02.73'	110° 56.73'	4.4*	1.8W	22	116	24	0.15
190327	13:28:38.95	39° 02.71'	110° 56.82'	6.2*	1.7W	14	157	24	0.10
190327	16:31:37.98	39° 24.30'	110° 18.23'	-2.2	1.5W	9	200	3	0.09
190327	17:08:02.74	39° 03.00'	110° 56.85'	1.8*	1.2	9	154	24	0.06
190327	18:26:26.26	38° 50.75'	111° 25.81'	0.7	2.3W	28	100	7	0.18
190327	18:53:10.17	39° 24.35'	110° 18.54'	-1.8	1.6W	11	198	2	0.09
190327	19:01:22.99	38° 50.14'	111° 24.38'	1.0	1.4W	12	105	6	0.11
190327	20:30:00.52	38° 19.27'	112° 53.54'	9.9	1.2	19	84	16	0.06
190327	20:58:37.38	39° 24.32'	110° 18.28'	-1.9	1.6W	9	200	3	0.11
190327	21:07:19.61	38° 50.82'	111° 24.02'	-1.1	1.2	9	135	8	0.04
190327	22:22:20.97	39° 02.76'	110° 56.96'	3.0*	1.1W	10	156	24	0.05
190328	00:00:37.32	39° 24.30'	110° 18.61'	-1.7	1.7W	9	198	2	0.07
190328	02:58:17.71	39° 24.35'	110° 18.98'	-1.4	1.7W	13	196	2	0.06
190328	06:40:49.09	39° 24.43'	110° 19.04'	-1.3	1.7W	11	195	2	0.03
190328	08:19:18.33	38° 49.51'	111° 30.50'	10.3	1.2	8	171	9	0.17
190328	16:03:47.14	39° 24.11'	110° 18.26'	-2.1	1.6W	11	200	3	0.15
190328	17:51:58.20	37° 33.30'	113° 04.00'	5.5*	2.3W	22	47	13	0.22
190328	17:59:01.51	39° 24.42'	110° 19.19'	-1.2	1.9W	14	195	2	0.05
190328	18:38:44.91	39° 24.53'	110° 18.67'	-1.2	1.4W	10	197	2	0.07
190328	18:45:18.77	39° 24.44'	110° 18.54'	-1.6	1.5W	14	198	2	0.10
190328	19:45:10.86	39° 02.85'	110° 56.91'	1.9*	1.1W	12	155	24	0.06
190328	21:29:04.77	39° 02.66'	110° 56.75'	4.3*	1.2W	15	157	24	0.17
190328	22:59:04.70	38° 28.29'	113° 19.68'	5.1*	2.5W	20	79	23	0.18
190330	05:01:52.75	39° 02.97'	110° 56.98'	1.7*	1.4W	18	154	24	0.11
190330	05:23:41.29	39° 02.51'	110° 57.63'	17.5	1.8W	19	156	23	0.23
190330	05:37:12.91	39° 02.87'	110° 56.84'	7.6*	1.1W	13	155	24	0.18
190330	08:32:21.85	39° 02.97'	110° 57.01'	4.7*	1.0W	12	154	24	0.10
190330	14:33:25.37	39° 03.01'	110° 57.08'	1.8*	1.4W	12	154	24	0.06

**Table 2. Earthquakes in the Utah Region: January 1–March 31, 2019**

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
190330	15:31:56.54	39° 03.00'	110° 56.97'	3.5*	1.1W	10	154	24	0.07
190330	16:10:17.18	39° 02.98'	110° 57.17'	2.0*	1.4W	16	154	24	0.10
190330	19:12:40.24	39° 02.83'	110° 56.84'	3.4*	0.9W	12	156	24	0.15
190330	19:39:43.42	39° 02.62'	110° 57.58'	17.1	2.3W	29	80	23	0.23
190330	19:54:03.06	39° 02.97'	110° 56.79'	1.6*	1.3W	13	155	24	0.18
190330	22:22:05.26	40° 28.26'	111° 56.77'	6.8	1.0	17	65	2	0.14
190331	02:52:06.61	39° 02.74'	110° 57.08'	3.6*	1.1W	15	156	24	0.06
190331	06:04:08.23	41° 49.41'	112° 17.85'	0.3*	1.2	12	86	12	0.07
190331	06:27:34.98	39° 02.59'	110° 56.89'	-1.2*	2.3W	26	106	24	0.14
190331	07:51:50.64	39° 02.74'	110° 56.84'	5.0*	2.3W	22	147	24	0.16
190331	07:58:45.55	40° 27.89'	111° 57.10'	8.4	2.2W	42	60	1	0.20
190331	08:14:04.30	40° 27.80'	111° 56.85'	8.7	1.9W	34	42	1	0.21
190331	09:41:34.93	39° 02.70'	110° 56.91'	3.9*	1.4W	14	156	24	0.13
190331	10:04:36.07	40° 28.29'	111° 56.84'	6.3	0.8	20	52	2	0.17
190331	10:08:01.69	39° 02.87'	110° 56.96'	1.8*	1.5	11	155	24	0.05
190331	10:09:17.69	39° 02.85'	110° 56.80'	4.6*	1.7W	18	155	24	0.18
190331	10:11:14.83	39° 02.80'	110° 57.40'	10.2*	1.4W	15	154	24	0.21
190331	10:41:35.23	39° 02.74'	110° 56.73'	3.2*	1.6W	17	157	24	0.17
190331	18:36:40.19	39° 02.97'	110° 56.78'	7.2*	1.4	11	155	24	0.25
190331	22:14:28.50	39° 02.74'	110° 56.73'	3.6*	1.8	17	157	24	0.20
190331	22:19:54.50	39° 02.68'	110° 56.99'	4.8*	1.8W	20	156	24	0.13
190331	22:25:18.14	38° 08.09'	112° 22.84'	3.0*	1.3W	15	173	20	0.20
190331	22:34:19.46	37° 25.82'	110° 32.22'	6.0*	1.5	10	139	108	0.28

number of earthquakes = 968

\* 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**  
**March 31, 2019**

<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	Etna	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	Applied Mems	ANSS-130	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	Applied Mems	ANSS-130	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	K2	Digital	ANSS
BCU	Brigham City, UT	EN[ZEN]	3	UU	41° 30.74'	111° 58.93'	1676	EpiSensor	K2	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
BHUT	Beaver High School, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
BMUT	Black Mountain, UT	EHZ	1	UU	41° 57.49'	111° 14.05'	2243	S13	PSN	Analog	USGS
BOZ	Bozeman, MT	BH[ZEN]	3	US	45° 38.82'	111° 37.78'	1589	*	*	Digital	USGS
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	Applied Mems	ANSS-130	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	ANSS-130	Digital	USGS
		EN[ZEN]	3					Applied Mems			
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	Applied Mems	ANSS-130	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	Observer	ANSS-130	Digital	USGS
		EN[ZEN]	3					R147			
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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
CWR	Coldwater Ranch, Paradise, UT	EN[ZEN]	3	UU	41° 34.90'	111° 46.89'	1837	Applied Mems	ANSS-130	Digital	ANSS
CWU	Camp Williams, UT	EHZ	1	UU	40° 26.75'	112° 06.13'	1945	L4C	PSN	Analog	USGS
DAU	Daniels Canyon, UT	EHZ	1	UU	40° 24.75'	111° 15.35'	2771	S13	PSN	Analog	USGS
DBD	Des Bee Dove, UT	EHZ	1	UU	39° 18.82'	111° 05.55'	2265	L4C	PSN	Analog	Utah
DCM	Dugout Coal Mine, UT	EHZ	1	UU	39° 41.70'	110° 35.00'	2537	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	EHZ	1	UU	40° 24.82'	111° 31.61'	1829	L4C	PSN	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.61'	111° 57.65'	1282	Applied Mems	ANSS-130	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	Applied Mems	ANSS-130	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
FORB	Blundell, Power Plant, UT	EN[ZEN]	3	UU	38° 29.41'	112° 51.30'	1845	EpiSensor	Basalt	Digital	Utah
FORU	South Mineral Mountains, UT	HH[ZEN]	3	UU	38° 27.53'	112° 51.68'	1840	40T	ANSS-130	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
FPU	Francis Peak, UT	EHZ	1	UU	41° 01.58'	111° 50.21'	2816	L4C	PSN	Analog	USGS
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	EHZ	1	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	Applied Mems	ANSS-130	Digital	ANSS
GMU	Granite Mountain, UT	EH[ZEN]	3	UU	40° 34.53'	111° 45.79'	1829	S13	PSN	Analog	USGS
GRII	Grays Lake, ID	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INL
GZU	Grizzly Peak, UT	EH[ZEN]	3	UU	41° 25.53'	111° 58.50'	2646	S13	PSN	Analog	USGS
H17A	Grant Village (YNP), WY	BH[ZEN]	3	TA	44° 23.71'	110° 34.57'	2400	STS-2	Q330	Digital	NSF
HAFB	Hill Air Force Base, Hill AFB, UT	EN[ZEN]	3	UU	41° 07.07'	111° 58.55'	1471	Applied Mems	ANSS-130	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[XYZ]	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	Etna	Digital	Utah
HLID	Hailey, ID	BH[ZEN]	3	US	43° 33.75'	114° 24.83'	1772	*	*	Digital	USGS
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			
HON	Honeyville, UT	EN[ZEN]	3	UU	41° 36.96'	112° 03.05'	1546	Applied Mems	ANSS-130	Digital	ANSS
HONU	Honeyville, UT	EHZ	1	UU	41° 36.90'	112° 03.00'	1515	L4C	PSN	Analog	USGS
HRU	Hogsback Ridge, UT	EHZ	1	UU	40° 47.67'	111° 53.14'	1620	Ranger	PSN	Analog	USGS
		EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
HTU	Hoyt, UT	EHZ	1	UU	40° 40.52'	111° 13.21'	2576	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
JLU	Jordanelle, UT	EN[ZEN]	3	UU	40° 36.12'	111° 27.00'	2285	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
JRP	Jordan River State Park Salt Lake City, UT	EN[ZEN]	3	UU	40° 49.54'	111° 56.66'	1284	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	3T	ANSS-130	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			
LCU	Little Cottonwood, UT	EN[ZEN]	3	UU	40° 34.41'	111° 47.91'	1571	EpiSensor	Etna2	Digital	ANSS
LDJ	Lady, UT	EHZ	1	UU	40° 34.89'	111° 24.52'	2217	S13	PSN	Analog	Utah
LEVU	Levan, UT	EHZ	1	UU	39° 30.39'	111° 48.88'	1996	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
LGC	Lakeside Golf Course Bountiful, UT	EN[ZEN]	3	UU	40° 54.04'	111° 54.51'	1292	EpiSensor	Etna2	Digital	ANSS
LHUT	Little Humpy Peak, UT	EHZ	1	UU	40° 53.49'	110° 59.78'	3084	S13	PSN	Analog	Utah
LIUT	Lila Canyon, UT	HH[ZEN]	3	UU	39° 25.45'	110° 19.51'	2178	Trillium 120	Centaur	Digital	Utah
LKC	Lee Kay Hunter Education Center Magna, UT	EN[ZEN]	3	UU	40° 43.62'	112° 02.14'	1289	EpiSensor	Etna2	Digital	ANSS
LKWY	Lake, WY	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	K2	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	Applied Mems	ANSS-130	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						Basalt	Digital	

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		EN[ZEN]	3					EpiSensor			
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			
MID	Middle Canyon, UT	EN[ZEN]	3	UU	40° 31.04'	112° 15.28'	1722	Applied Mems	ANSS-130	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	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
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	K2	Digital	ANSS
NAIU	North Antelope Island, UT	EHZ	1	UU	41° 00.97'	112° 13.68'	1472	L4C	PSN	Analog	USGS
NLU	North Lily Mine, UT	EN[ZEN]	3	UU	39° 57.29'	112° 04.50'	2036	Episensor	ANSS-130	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	EpiSensor	K2	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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° 33.77'	112° 01.61'	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	Applied Mems	ANSS-130	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	K2	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	EHZ	1	IE	42° 52.20'	112° 22.21'	1670	*	*	Digital	INL
PTU	Portage, UT	EHZ	1	UU	41° 55.76'	112° 19.48'	2192	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
PV05	E. Island Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 08.87'	108° 50.08'	2142	*	*	Digital	USBR
PV11	Davis Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 17.96'	108° 52.33'	1881	*	*	Digital	USBR
PV15	Pinto Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 20.51'	108° 28.66'	2280	*	*	Digital	USBR
PV21	Cone Mountain, Paradox Basin, CO	HH[ZEN]	3	RE	38° 33.67'	108° 58.50'	2235	*	*	Digital	USBR
Q12A	Willow Creek Ranch, Ely, NV	HH[ZEN]	3	NN	39° 02.40'	114° 19.88'	1625	Trillium 120	Q330	Digital	UNR
QBHW	Bridle Trail Rd, Draper, UT	HN[ZEN]	3	UU	40° 30.23'	111° 51.35'	1400	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCSP	White Pine Dr., Tooele, UT	HN[ZEN]	3	UU	40° 32.75'	112° 16.56'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
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



SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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, Linton, 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
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
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	K2	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SCUT	Santa Clara, UT	EN[ZEN]	3	UU	37° 07.69'	113° 38.68'	837	EpiSensor	Etna	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	Applied Mems	ANSS-130	Digital	ANSS
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								
SPR	Wildlife Resource Center Springville, UT	EN[ZEN]	3	UU	40° 10.94'	111° 36.71'	1379	EpiSensor	K2	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	Applied Mems	ANSS-130	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
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	K2	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	K2	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	K2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	EN[ZEN]	3	UU	41° 38.37'	111° 55.94'	1387	Applied Mems	ANSS-130	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						Basalt	Digital	

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		EN[ZEN]	3					EpiSensor			
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					Applied Mems	ANSS-130	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	Taurus	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	ANSS-130	Digital	USGS
		HH[ZEN]	3					Compact			
		EN[ZEN]	3					Titan			
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	Q330	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan			
YHL	Hebgen Lake, MT	HH[ZEN]	3	WY	44° 51.05'	111° 10.98'	2691	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YHR	Hawk's Rest, WY	HH[ZEN]	3	WY	44° 06.36'	110° 04.90'	2976	Trillium 120	Q330	Digital	USGS
YJC	Joseph's Coat (YNP), WY	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	Q330	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan			
YMR	Madison River (YNP), WY	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YMS	Mount Sheridan (YNP), WY	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	HH[ZEN]	3	WY	45° 00.46'	110° 00.48'	2343	Compact	ANSS-130	Digital	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YNM	Norris Museum (YNP), WY	HH[ZEN]	3	WY	44° 43.59'	110° 42.22'	2311	Trillium 240	Q330	Digital	USGS
YNR	Norris Junction (YNP), WY	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YPC	Pelican Cone (YNP), WY	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	PSN	Analog	USGS
YPK	Parker Peak (YNP), WY	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	PSN	Analog	USGS
YPM	Purple Mountain (YNP), WY	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	PSN	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3					Titan			
YSB	Soda Butte (YNP), WY	EHZ	1	WY	44° 53.04'	110° 09.06'	2072	L4C	PSN	Analog	USGS
YTP	The Promontory (YNP), WY	EHZ	1	WY	44° 23.51'	110° 17.10'	2384	L4	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3					Titan			
YUF	Upper Falls (YNP), WY	HH[ZEN]	3	WY	44° 42.76'	110° 30.71'	2394	Compact	ANSS-130	Digital	USGS
		EN[ZEN]	3					Titan			
YWB	West Boundary (YNP), WY	EHZ	1	WY	44° 36.35'	111° 06.05'	2310	L4C	PSN	Analog	USGS
ZNPU	Zion National Park, UT	HH[ZEN]	3	UU	37° 21.37'	113° 07.52'	1953	Trillium 120	Q330	Digital	Utah

\* Station operated by another agency and recorded as part of University of Utah regional seismic network  
Network Statistics: 977 data channels from 314 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

<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)

**Telemetry            Description**

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

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

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

**NETWORK CHANGES DURING JANUARY 1–MARCH 31, 2019**

March 5	FORB EN[ZEN] installed
March 20	Added EN[ZEN] to FOR3