

EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

October 1 – December 31, 2020

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

March 30, 2021

Foreword and Data Explanation

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

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

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

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was MDT through 02:00 (2:00 a.m.) on November 1 and MST thereafter.
- Earthquake location coordinates in degrees and minutes of north latitude and west longitude, and depth in kilometers below sea level. Note that prior to October 1, 2012, the earthquake depths in these quarterly reports were computed relative to a datum of 1500 m above sea level.
- "*" indicates poor depth resolution: no recording stations within 10 km or twice the depth.
- MAG, the computed Richter local magnitude (M_L) for each earthquake. "W" indicates that peak amplitude measurements from Wood-Anderson records were used. Otherwise, the estimate is calculated from signal durations and is more correctly identified as coda magnitude (M_C). The notation "--" indicates that a reliable magnitude estimate could not be made.
- NO, the number of P and S readings used in the solution.
- GAP, the largest azimuthal separation in degrees between recording stations used in the solution.
- DMN, the epicentral distance in kilometers to the closest station.
- RMS, the weighted root-mean-square of the travel-time residuals in seconds:

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

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

EARTHQUAKE ACTIVITY IN THE UTAH REGION October 1 – December 31, 2020

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During the three-month period October 1, 2020, through December 31, 2020, the University of Utah Seismograph Stations (UUSS) located 566 earthquakes within the Utah region (Figure 1). The total includes two earthquakes in the magnitude 4 range, four earthquakes in the magnitude 3 range and 46 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. Four earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2020 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

Online Information

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

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

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

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

Earthquakes of Magnitude 3.0 or Larger

M _L 4.4	October 3	05:47 MDT	10 mi SW of Circleville, UT
M _L 3.3	October 14	18:36 MDT	8 mi ENE of Helper, UT
M _L 3.8	November 8	04:19 MST	12 mi SW of Uravan, CO
M _L 3.7	December 8	15:53 MST	12 mi SW of Uravan, CO
M _L 3.3	December 19	18:53 MST	12 mi SW of Uravan, CO
M _L 4.3	December 19	19:11 MST	12 mi SW of Uravan, CO

Other Notable Seismicity

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

- A. A cluster of 12 earthquakes ($0.5 \leq M \leq 1.8$) occurred about 26 mi WNW of Garland, UT. Five of these events occurred between October 7 and October 11.
- B. A cluster of 12 earthquakes ($0.1 \leq M \leq 1.6$) occurred about 9 mi ENE of Paradise, UT. Eight of these events occurred on November 20.
- C. A cluster of 23 earthquakes ($0.2 \leq M \leq 1.6$) occurred about 13 mi SW of Corinne, UT. Five of these events occurred between October 16 and October 20.
- D. A cluster of 71 earthquakes ($0.1 \leq M \leq 2.5$) occurred about 4 mi NNW of Magna, UT. 11 of these events, including a magnitude 2.5 shock, occurred between November 11 and November 22.
- E. A cluster of 20 earthquakes ($0.3 \leq M \leq 2.3$) occurred about 15 mi SSW of Kanosh, UT. Five of these events, including a magnitude 2.3 shock, occurred between November 14 and November 21.
- F. A cluster of 113 earthquakes ($-1.0 \leq M \leq 1.3$) occurred about 11 mi NE of Milford, UT. 48 of these events occurred between October 6 and October 7.
- G. A cluster of 14 earthquakes ($1.5 \leq M \leq 4.3$) occurred about 11 mi SW of Uravan, CO. Five of these events, including a magnitude 4.3 shock, occurred on December 20.
- H. A cluster of 32 earthquakes ($0.8 \leq M \leq 4.4$) occurred about 4 mi WSW of Circleville, UT. 10 of these events, including a magnitude 4.4 shock, occurred on October 3.

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 61 located shocks ($0.8 \leq M \leq 3.3$) that occurred during the report period.

Seismicity of the Utah Region October 1, 2020 — December 31, 2020

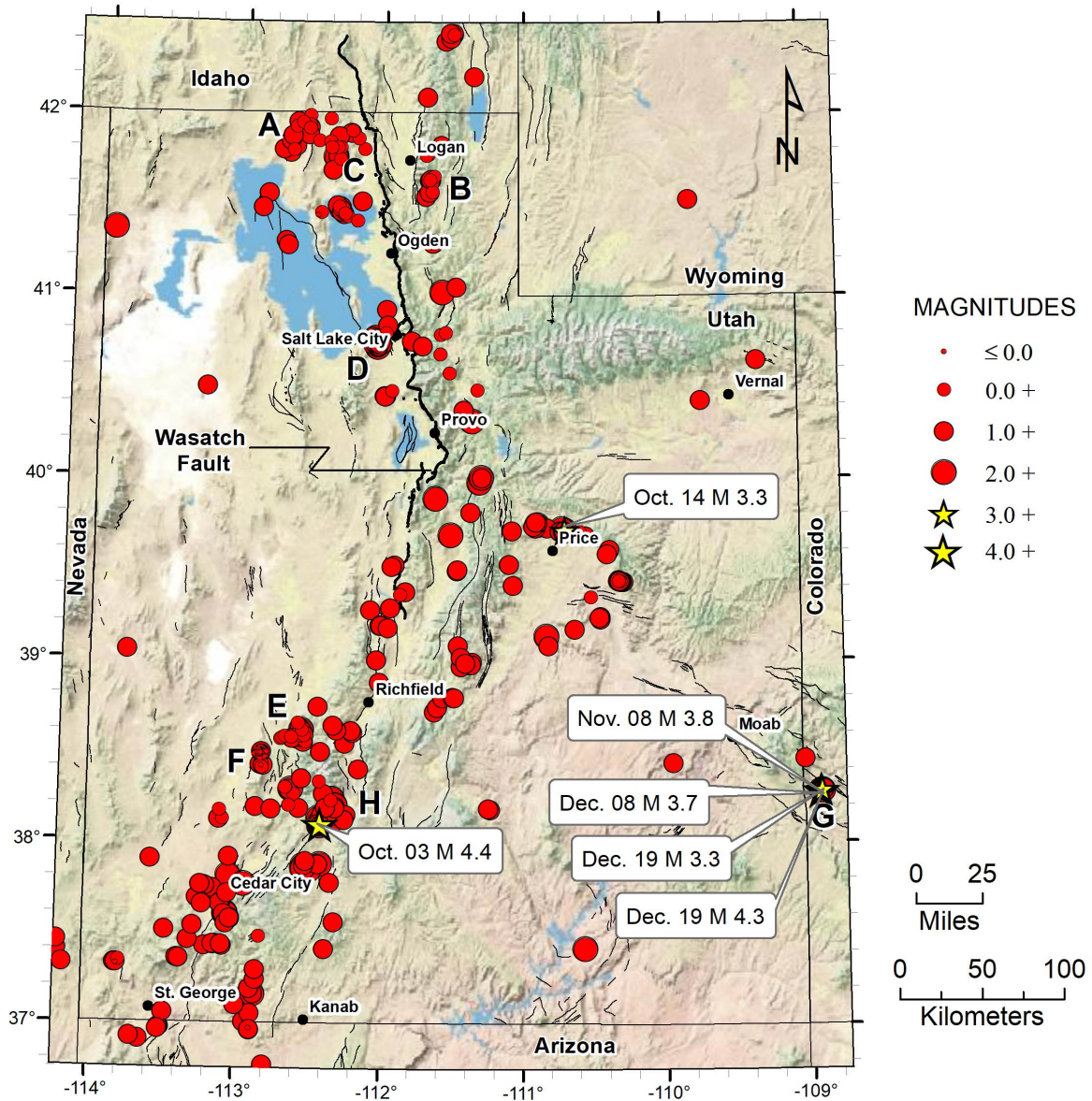


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults (black lines) compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local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

Table 1

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

January 1, 2020 to December 31, 2020

Date and Time†	Felt Information‡	Latitude	Longitude	Magnitude§
2020-01-16 19:31:11 MST 2020-01-17 02:31:11 UTC	DYFI ShakeMap	38° 17.96'	112° 51.85'	M _L 3.9
2020-01-24 07:41:28 MST 2020-01-24 14:41:28 UTC	DYFI ShakeMap	41° 47.67'	112° 21.64'	M _L 3.1
2020-03-05 21:28:59 MST 2020-03-06 04:28:59 UTC	DYFI ShakeMap	41° 28.81'	112° 17.99'	M _L 3.0
2020-03-18 07:09:31 MDT 2020-03-18 13:09:31 UTC	DYFI ShakeMap	40° 45.06'	112° 04.70'	M _w 5.7 NEIC
2020-03-18 08:02:12 MDT 2020-03-18 14:02:12 UTC	DYFI ShakeMap	40° 45.63'	112° 04.16'	M _w 4.6
2020-03-18 13:12:23 MDT 2020-03-18 19:12:23 UTC	DYFI ShakeMap	40° 45.06'	112° 03.54'	M _w 4.6
2020-04-04 02:49:04 MDT 2020-04-04 08:49:04 UTC	DYFI	40° 44.64'	112° 02.44'	M _L 2.7
2020-04-05 17:39:52 MDT 2020-04-05 23:39:52 UTC	DYFI	40° 44.60'	112° 02.91'	M _L 2.5
2020-04-14 20:56:09 MDT 2020-04-15 02:56:09 UTC	DYFI ShakeMap	40° 44.03'	112° 03.46'	M _L 4.2
2020-04-16 06:41:29 MDT 2020-04-16 13:41:29 UTC	DYFI ShakeMap	40° 44.15'	112° 03.73'	M _L 4.2
2020-04-17 18:08:09 MDT 2020-04-18 00:08:09 UTC	DYFI	40° 43.82'	112° 03.64'	M _L 2.8
2020-04-20 19:07:07 MDT 2020-04-21 01:07:07 UTC	DYFI	40° 44.52'	112° 04.15'	M _L 2.7
2020-06-24 17:33:15 MDT 2020-06-24 23:33:15 UTC	DYFI	37° 00.01'	112° 44.64'	M _L 3.1
2020-07-21 03:44:15 MDT 2020-07-21 09:44:15 UTC	DYFI ShakeMap	37° 29.69'	113° 29.32'	M _L 3.8
2020-07-25 17:29:49 MDT 2020-07-25 23:29:49 UTC	DYFI	40° 44.06'	112° 03.40'	M _L 2.5
2020-09-19 21:56:36 MDT 2020-09-20 03:56:36 UTC	DYFI	41° 45.99'	111° 42.62'	M _L 2.7
2020-10-03 05:47:43 MDT 2020-10-03 11:47:43 UTC	DYFI ShakeMap	38° 05.52'	112° 25.19'	M _L 4.4

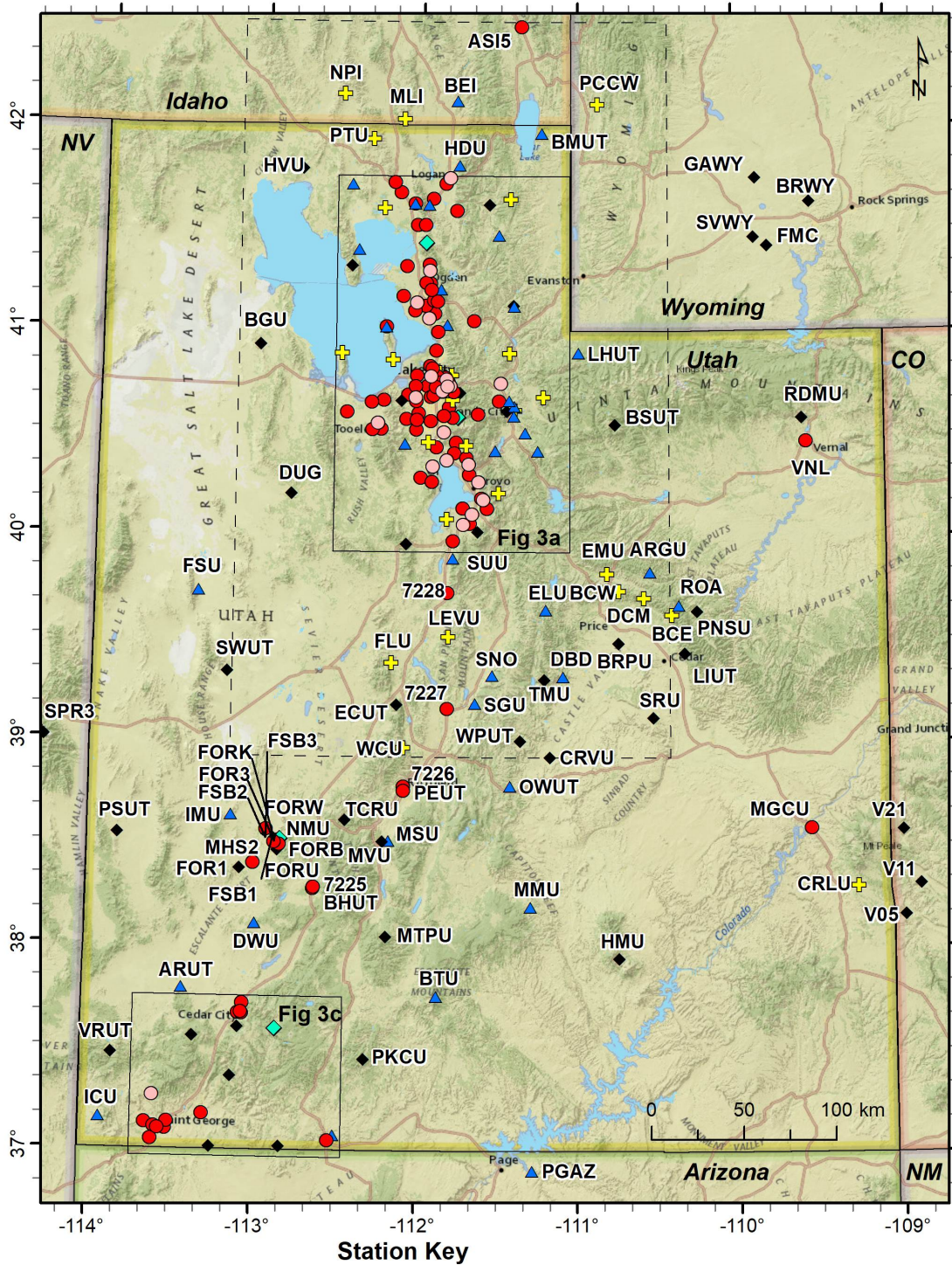
Date and Time†	Felt Information‡	Latitude	Longitude	Magnitude§
2020-11-08 04:19:56 MST 2020-11-08 11:19:56 UTC	DYFI ShakeMap	38° 16.44'	108° 55.66'	M _L 3.8
2020-12-08 16:53:42 MST 2020-12-08 22:53:42 UTC	DYFI ShakeMap	38° 16.32'	108° 55.38'	M _L 3.7
2020-12-19 19:11:06 MST 2020-12-20 02:11:06 UTC	DYFI ShakeMap	38° 16.39'	108° 55.76'	M _L 4.3

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

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

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

Utah Regional/Urban Seismic Network December 31, 2020



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

Figure 2

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201001	05:43:41.59	41° 33.32'	112° 51.32'	7.2*	1.2	20	182	26	0.11
201001	11:46:19.42	38° 29.36'	112° 49.70'	0.1	0.4	13	252	2	0.22
201001	12:04:26.32	38° 29.54'	112° 49.77'	0.1	0.0	9	250	3	0.11
201001	23:45:02.74	39° 00.27'	111° 26.38'	0.6	1.9	10	125	7	0.09
201002	18:04:29.85	38° 11.41'	112° 18.93'	1.3*	1.8W	19	95	20	0.18
201002	18:12:56.32	38° 11.92'	112° 18.99'	0.7*	2.5W	30	51	21	0.21
201002	19:08:31.23	40° 40.55'	111° 36.25'	9.3	0.9	26	63	10	0.17
201002	19:14:02.48	40° 40.62'	111° 36.10'	8.1	0.6	11	254	10	0.11
201002	19:57:12.92	39° 16.28'	112° 05.19'	12.3	1.9W	26	75	12	0.19
201002	23:03:49.12	38° 13.38'	112° 20.76'	6.0*	0.8	11	152	44	0.18
201003	04:11:23.08	40° 43.91'	112° 02.80'	6.0	0.7	18	47	1	0.12
201003	08:00:29.99	38° 11.81'	112° 38.54'	9.2	0.6	12	233	9	0.17
201003	11:47:43.96	38° 05.52'	112° 25.19'	8.3*	4.4W	41	41	51	0.21
201003	11:52:50.59	38° 05.94'	112° 25.01'	8.0*	2.6W	20	117	51	0.23
201003	12:10:53.24	38° 07.64'	112° 25.88'	-1.1*	2.0W	16	98	50	0.23
201003	12:25:02.60	38° 05.59'	112° 25.04'	8.6*	1.8W	29	45	51	0.20
201003	12:40:35.81	38° 05.62'	112° 24.89'	7.9*	2.2W	26	47	56	0.18
201003	12:53:36.32	38° 05.05'	112° 25.81'	5.3*	1.3	23	55	50	0.24
201003	13:41:47.09	38° 05.12'	112° 25.45'	8.5*	2.7W	28	46	50	0.20
201003	13:48:07.46	38° 05.62'	112° 24.30'	10.1*	1.9W	26	45	52	0.28
201003	13:52:42.01	38° 05.55'	112° 25.42'	6.0*	1.5	16	111	50	0.20
201003	13:58:19.19	38° 05.71'	112° 25.69'	10.1*	1.0	16	97	50	0.19
201003	14:05:36.20	38° 05.23'	112° 24.89'	6.0*	1.0	8	146	51	0.18
201003	15:18:10.62	36° 54.35'	113° 38.91'	6.8*	1.9W	18	149	37	0.28
201003	15:42:49.54	39° 42.38'	110° 44.93'	-3.5	1.2	8	157	3	0.07
201003	19:25:49.44	38° 05.27'	112° 25.00'	3.9*	1.3	17	97	21	0.28
201004	03:13:37.12	40° 46.86'	112° 04.22'	11.0	1.2W	23	103	3	0.11
201004	05:32:52.06	40° 46.70'	112° 04.39'	12.1	0.6	22	109	3	0.08
201004	10:19:56.64	38° 11.03'	112° 23.01'	5.9*	1.1	9	142	48	0.15
201004	11:52:56.48	41° 26.98'	112° 19.23'	0.5	0.9	17	86	10	0.15
201004	13:44:03.29	41° 27.31'	112° 19.88'	1.2	0.7	9	152	10	0.18
201005	04:59:32.76	38° 35.80'	112° 12.15'	15.5	1.3W	13	160	21	0.07
201005	06:22:03.48	41° 26.62'	112° 18.53'	0.3	0.8	9	146	10	0.11
201006	02:24:59.42	41° 20.99'	113° 57.74'	6.9*	2.0W	15	174	92	0.13
201006	12:40:27.51	38° 29.41'	112° 50.49'	0.0	0.0	11	221	1	0.11
201006	12:40:35.74	38° 28.81'	112° 51.19'	-0.1	-9	9	194	2	0.06
201006	12:41:07.77	38° 28.82'	112° 50.53'	0.1	--	9	225	3	0.08
201006	12:44:13.65	38° 29.13'	112° 49.84'	0.1	-5	10	249	4	0.11
201006	12:44:37.39	38° 28.95'	112° 49.35'	0.0	-8	10	265	4	0.35
201006	12:44:41.24	38° 28.82'	112° 52.23'	-2.0	--	7	166	2	0.16
201006	12:44:44.05	38° 28.88'	112° 50.73'	-0.2	-9	10	214	3	0.09
201006	12:44:44.05	38° 28.86'	112° 50.46'	0.1	--	10	227	3	0.08
201006	12:44:56.43	38° 29.10'	112° 50.19'	0.1	--	10	235	3	0.12
201006	12:44:59.83	38° 28.91'	112° 50.33'	0.1	-7	10	232	3	0.09
201006	12:44:59.88	38° 29.07'	112° 50.95'	-0.6	-7	10	202	2	0.10

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201006	12:45:03.91	38° 28.93'	112° 49.64'	0.2	-4	15	163	3	0.15
201006	12:45:04.01	38° 30.07'	112° 50.70'	-0.6	-5	9	211	2	0.09
201006	12:49:47.37	38° 28.87'	112° 50.38'	0.1	0.4	12	230	3	0.09
201006	12:50:14.38	38° 28.92'	112° 50.87'	-0.4	0.5	15	138	1	0.09
201006	12:51:40.73	38° 29.07'	112° 50.32'	0.1	-3	11	230	3	0.12
201006	12:52:02.64	38° 28.99'	112° 50.41'	0.1	0.5	13	148	3	0.10
201006	13:41:45.55	38° 28.92'	112° 50.56'	0.1	-7	10	222	3	0.08
201006	13:41:50.47	38° 28.92'	112° 50.12'	0.0	--	10	240	3	0.14
201006	13:41:52.43	38° 28.92'	112° 50.68'	-0.3	-6	8	216	3	0.18
201006	13:42:10.38	38° 28.91'	112° 50.10'	0.3	-6	10	241	3	0.23
201006	13:42:15.15	38° 29.09'	112° 49.80'	0.1	0.1	10	250	4	0.10
201006	13:42:22.16	38° 29.39'	112° 51.26'	0.4	-1	8	184	2	0.11
201006	13:42:31.52	38° 28.88'	112° 49.73'	0.5	-0.4	10	254	4	0.27
201007	01:20:59.52	40° 43.95'	112° 03.67'	9.9	0.8	16	89	2	0.06
201007	04:12:34.36	38° 28.83'	112° 50.15'	0.2	0.5	10	240	3	0.09
201007	04:15:02.85	38° 28.90'	112° 50.60'	-0.5	0.5	13	220	1	0.08
201007	04:17:29.92	38° 28.93'	112° 50.42'	0.1	-4	12	228	3	0.11
201007	04:18:14.67	38° 28.99'	112° 50.63'	-0.6	0.3	12	218	3	0.06
201007	04:22:09.38	38° 28.90'	112° 50.00'	0.4	-0.4	12	244	4	0.29
201007	04:39:06.90	38° 28.86'	112° 50.29'	0.1	-0.1	11	234	3	0.10
201007	04:42:54.01	38° 29.15'	112° 50.68'	-0.4	--	9	213	3	0.11
201007	04:42:59.71	38° 28.90'	112° 50.10'	-0.1	-0.2	11	241	3	0.20
201007	05:42:59.79	40° 43.55'	112° 03.41'	9.3	0.6	13	115	2	0.09
201007	05:47:32.96	38° 28.98'	112° 50.30'	0.0	-0.5	12	232	3	0.18
201007	05:58:11.18	38° 28.80'	112° 49.93'	0.0	0.0	12	248	3	0.31
201007	06:11:03.95	38° 28.82'	112° 49.94'	0.0	0.2	11	248	3	0.31
201007	06:11:17.97	38° 28.96'	112° 50.70'	-0.5	-0.1	10	215	3	0.07
201007	07:13:24.39	38° 15.45'	112° 36.31'	6.4	0.8	13	114	4	0.11
201007	09:48:53.03	41° 26.70'	112° 18.21'	0.2*	0.2	7	156	11	0.12
201007	10:30:23.34	37° 20.15'	113° 47.78'	5.6*	0.8	12	84	15	0.14
201007	15:18:18.69	40° 43.81'	112° 05.07'	8.3	0.8	16	56	3	0.10
201007	16:45:02.36	38° 28.69'	112° 51.93'	-0.4	-0.4	6	153	2	0.08
201007	16:46:19.93	38° 28.89'	112° 51.41'	0.1	--	8	181	2	0.05
201007	16:46:26.57	38° 28.94'	112° 50.80'	0.1	-0.9	10	211	3	0.11
201007	16:46:38.58	38° 28.47'	112° 52.89'	-0.4	--	7	201	2	0.04
201007	16:46:45.77	38° 29.14'	112° 50.43'	0.2	-0.6	11	225	3	0.12
201007	16:46:59.69	38° 29.08'	112° 50.26'	0.1	-0.4	12	232	3	0.11
201007	16:48:40.21	38° 29.29'	112° 50.49'	0.1	-0.2	11	222	3	0.13
201007	16:51:18.79	38° 29.26'	112° 49.25'	0.2	--	6	266	4	0.06
201007	16:51:31.38	38° 28.88'	112° 47.93'	4.8	-0.1	5	294	6	0.10
201007	16:52:20.46	38° 29.28'	112° 47.89'	3.2	--	5	294	6	0.07
201007	16:55:03.36	38° 29.01'	112° 49.69'	0.0	-0.5	10	254	4	0.34
201007	16:55:26.20	38° 29.36'	112° 49.76'	0.1	--	9	250	4	0.09
201007	17:18:34.19	41° 52.55'	112° 34.06'	1.5*	1.0	11	128	20	0.08
201008	01:26:22.84	37° 24.80'	110° 34.65'	21.3*	2.5W	19	103	60	0.24

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201008	13:41:29.97	41° 44.49'	112° 20.39'	4.1*	0.4	6	152	12	0.03
201009	02:29:59.53	37° 25.87'	113° 05.57'	6.8	1.1	12	87	9	0.07
201009	05:33:08.27	38° 36.40'	112° 12.80'	16.0	1.2W	13	103	20	0.20
201009	06:02:31.93	38° 17.03'	112° 38.40'	2.7	1.4	16	76	1	0.13
201009	15:19:07.53	37° 19.06'	114° 10.97'	11.4*	1.0	8	149	29	0.10
201009	21:42:56.25	42° 25.80'	111° 31.04'	8.3*	1.7W	15	117	41	0.12
201009	23:46:30.52	38° 38.95'	112° 35.03'	2.4*	0.5	11	232	13	0.15
201010	02:17:53.72	40° 42.75'	112° 03.06'	9.1	1.0	29	45	2	0.10
201010	02:18:55.38	38° 29.00'	112° 50.75'	-1.0	-0.2	9	212	3	0.09
201010	04:27:56.83	41° 48.84'	112° 39.77'	3.2	1.1	17	129	10	0.06
201010	05:18:46.88	40° 42.72'	112° 03.24'	9.4	2.3W	53	31	2	0.14
201010	05:20:01.08	40° 43.06'	112° 03.22'	10.0	1.0	23	78	2	0.19
201010	05:44:08.84	42° 26.04'	111° 32.38'	6.8*	1.1	12	155	41	0.15
201010	06:34:01.86	40° 42.79'	112° 03.11'	9.5	1.5W	35	45	2	0.13
201010	06:44:06.32	42° 25.68'	111° 30.83'	8.4*	0.9	9	152	41	0.14
201010	06:44:12.09	42° 24.50'	111° 32.23'	3.5*	1.1	8	150	38	0.25
201010	07:09:29.55	38° 16.95'	108° 54.61'	1.1	1.5	12	83	4	0.11
201010	07:42:57.57	40° 42.71'	112° 02.69'	9.6	0.5	21	55	2	0.11
201010	07:53:38.11	42° 26.11'	111° 31.17'	1.0*	1.4	16	118	41	0.20
201010	16:13:22.31	41° 55.16'	112° 39.71'	5.6*	0.8	8	222	18	0.03
201010	19:20:54.47	41° 55.01'	112° 33.92'	1.6*	1.1	12	139	20	0.11
201010	22:25:25.47	41° 27.95'	112° 20.67'	-1.2	1.1	11	101	10	0.18
201010	22:38:41.18	41° 28.05'	112° 20.67'	0.2	0.4	8	102	10	0.17
201011	04:29:47.01	38° 05.79'	112° 25.08'	6.0*	2.0W	20	51	51	0.16
201011	04:35:39.92	37° 52.57'	112° 26.04'	6.0*	1.7W	13	105	49	0.19
201011	05:26:33.99	38° 32.64'	112° 31.80'	1.5	0.8	9	205	10	0.14
201011	06:10:19.98	38° 34.95'	112° 32.90'	3.8	1.5	13	146	9	0.09
201011	06:12:24.38	40° 42.66'	112° 03.23'	9.6	0.7	16	70	2	0.07
201011	17:33:13.19	42° 23.57'	111° 34.29'	3.5*	1.2	8	138	35	0.27
201011	18:05:06.55	41° 55.65'	112° 33.88'	1.0*	0.8	12	141	20	0.14
201011	18:05:06.56	41° 55.75'	112° 33.89'	3.1*	0.6	13	142	20	0.15
201012	09:20:31.69	41° 48.43'	112° 24.39'	1.5*	0.2	7	107	15	0.08
201012	13:28:42.13	38° 38.60'	112° 34.53'	1.1*	0.9	11	143	12	0.14
201012	13:42:15.57	38° 34.47'	112° 32.85'	5.4	1.2	8	180	10	0.06
201012	22:53:24.70	41° 48.38'	112° 20.28'	4.3*	0.5	11	127	14	0.08
201013	00:12:20.79	39° 24.56'	111° 04.83'	1.0*	1.4W	14	116	11	0.11
201013	08:28:34.44	37° 05.83'	112° 59.49'	5.9*	1.4W	7	128	18	0.24
201013	08:56:40.67	41° 26.11'	112° 29.81'	1.4	--	7	165	9	0.16
201013	08:56:41.99	41° 27.05'	112° 28.26'	-0.9	0.7	11	143	8	0.16
201013	11:38:02.29	37° 00.43'	112° 55.74'	20.0	1.6W	16	135	28	0.12
201013	19:10:36.96	36° 58.18'	112° 53.48'	17.3	--	11	141	8	0.11
201013	19:10:39.03	36° 57.74'	112° 53.35'	18.0	1.7W	13	143	8	0.11
201013	19:26:42.25	36° 57.77'	112° 53.30'	16.8	1.3W	11	143	8	0.10
201013	20:02:16.74	40° 29.54'	113° 16.19'	11.8*	1.1	9	151	51	0.10
201013	21:05:11.84	37° 52.44'	112° 25.10'	5.6*	2.3W	18	63	28	0.25

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201014	05:52:13.50	38° 34.62'	112° 33.92'	4.9*	0.7	9	175	11	0.02
201014	06:57:23.60	38° 04.93'	112° 26.24'	6.0*	1.5	13	126	49	0.14
201014	07:45:30.73	38° 10.85'	112° 34.29'	11.9	1.3	21	115	12	0.12
201014	08:35:23.37	37° 52.37'	112° 25.98'	10.3*	1.6W	19	104	49	0.30
201014	11:11:20.06	38° 52.46'	112° 01.17'	10.9	1.7W	21	108	12	0.13
201014	16:45:52.70	38° 34.18'	112° 33.16'	3.9	1.1	11	154	10	0.09
201014	23:32:18.89	38° 29.51'	112° 49.74'	0.2	-0.4	11	251	3	0.18
201014	23:48:25.49	41° 47.56'	112° 40.81'	3.5	0.8	8	118	8	0.05
201015	00:36:45.61	39° 42.60'	110° 42.76'	-3.2	3.3W	27	49	3	0.22
201015	02:06:34.61	39° 41.97'	110° 43.50'	-2.4	1.7W	12	112	4	0.08
201015	05:36:23.27	40° 42.70'	112° 03.26'	9.8	1.7W	35	43	2	0.12
201015	05:59:31.90	39° 42.32'	110° 43.43'	-1.6	1.5	9	144	3	0.08
201015	06:40:54.69	40° 47.47'	111° 59.58'	1.4	0.6	15	152	3	0.08
201015	13:53:40.65	38° 10.39'	112° 20.06'	3.6*	2.2W	15	125	49	0.31
201015	15:06:57.04	38° 37.28'	112° 34.12'	5.0*	1.8W	17	110	11	0.18
201015	15:09:50.27	38° 59.16'	111° 22.00'	-1.4	1.7W	18	79	1	0.16
201015	15:51:20.95	38° 29.43'	112° 50.19'	-0.8	1.0	14	234	2	0.17
201015	15:52:29.88	38° 29.23'	112° 51.23'	0.0	-0.6	9	187	2	0.11
201015	15:52:33.12	38° 29.52'	112° 50.34'	-0.2	-0.1	12	227	1	0.12
201015	15:52:56.09	38° 29.35'	112° 50.37'	-0.5	0.0	10	226	3	0.11
201015	16:13:50.60	38° 29.44'	112° 50.29'	0.2	-0.7	10	229	3	0.10
201015	16:14:22.03	38° 29.59'	112° 50.30'	-0.2	--	8	229	3	0.08
201015	19:20:18.28	39° 42.67'	110° 42.82'	-2.0	2.5W	27	50	3	0.18
201015	20:19:07.12	39° 42.14'	110° 43.62'	-2.2	1.9W	15	106	3	0.07
201015	20:38:36.31	40° 43.76'	112° 03.32'	9.2	1.8W	43	31	2	0.11
201015	22:50:21.66	38° 57.68'	111° 26.78'	-2.2	1.2W	12	73	9	0.08
201016	04:31:37.53	38° 32.70'	112° 32.69'	2.3*	1.2	15	199	11	0.08
201016	07:39:54.92	37° 44.33'	113° 09.59'	0.8*	1.7W	21	56	17	0.19
201016	08:00:24.68	41° 26.81'	112° 18.60'	1.1	0.9	10	160	10	0.08
201016	08:22:44.12	38° 10.20'	112° 19.63'	6.0*	1.6W	14	150	50	0.21
201016	08:55:16.03	38° 35.15'	112° 33.59'	-0.2	0.9	11	149	10	0.06
201016	20:35:36.60	41° 28.81'	112° 20.63'	0.5*	0.3	8	173	11	0.07
201016	20:55:56.77	41° 26.57'	112° 18.58'	0.3	1.0W	14	83	10	0.20
201017	04:07:00.08	38° 29.01'	112° 50.75'	-1.1	-0.6	13	140	3	0.11
201017	09:10:32.71	41° 50.53'	112° 29.67'	11.7	0.7	9	111	19	0.08
201017	20:04:15.67	40° 42.99'	112° 03.26'	10.1	1.1	20	79	2	0.16
201018	00:29:23.09	39° 42.56'	111° 05.24'	13.8	1.1	17	127	13	0.24
201018	02:15:37.86	39° 20.70'	110° 31.79'	7.5*	0.3	10	131	20	0.03
201018	23:28:34.00	41° 54.67'	112° 33.85'	1.3*	0.5	12	137	20	0.10
201019	05:23:48.55	40° 44.60'	112° 03.57'	8.2	0.5	15	107	7	0.08
201019	05:50:34.50	37° 21.26'	113° 23.82'	2.8*	1.0W	14	85	22	0.13
201019	05:54:46.16	41° 28.47'	112° 18.78'	1.1*	0.5	6	190	12	0.08
201019	06:18:07.02	39° 42.20'	110° 43.39'	-3.0	1.2	7	144	3	0.08
201019	11:00:43.68	38° 58.43'	111° 22.34'	-2.8	1.4W	13	78	3	0.16
201019	12:58:22.38	40° 44.49'	112° 03.61'	4.8	1.0	17	92	2	0.10

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201019	13:45:30.68	38° 59.84'	112° 02.34'	11.3	1.9W	17	92	6	0.17
201019	15:21:38.26	39° 17.04'	111° 56.76'	7.1*	1.5	14	92	22	0.14
201020	03:14:16.01	39° 04.61'	111° 27.90'	-2.0*	1.2W	9	156	13	0.10
201020	08:21:50.54	38° 58.91'	111° 24.92'	-1.0	1.2W	19	87	5	0.18
201020	11:01:29.71	37° 21.12'	113° 23.05'	5.5*	1.6W	19	76	22	0.18
201020	14:03:55.04	41° 27.32'	112° 19.54'	-1.7	1.0	13	105	10	0.09
201020	17:36:41.37	38° 44.25'	112° 26.80'	1.6*	1.2	16	113	14	0.17
201020	20:28:58.95	39° 42.46'	110° 43.10'	-3.3	1.0	6	136	3	0.08
201021	01:09:49.70	40° 46.19'	112° 05.64'	11.0	0.8	19	102	2	0.13
201021	07:16:33.07	40° 43.93'	112° 04.21'	8.9	0.9W	31	44	3	0.15
201021	08:21:30.88	39° 21.37'	111° 52.58'	2.9*	0.5	7	180	18	0.13
201021	08:51:54.49	38° 17.70'	112° 40.03'	2.8	0.4	14	105	3	0.08
201021	15:47:19.19	39° 42.06'	110° 43.23'	-2.4	1.1W	13	104	4	0.09
201021	17:56:54.61	39° 41.98'	110° 43.18'	-2.5	1.3	11	144	4	0.06
201022	01:31:43.36	39° 41.76'	110° 43.29'	-2.8	1.2W	9	145	4	0.08
201022	02:49:20.15	37° 48.51'	113° 02.98'	0.9*	2.1W	22	62	24	0.24
201022	06:59:07.86	39° 42.23'	110° 43.38'	-2.0	1.8W	17	67	3	0.12
201022	08:22:22.80	38° 08.75'	112° 19.94'	5.1*	2.3W	22	52	52	0.24
201022	12:35:39.54	41° 24.38'	112° 12.62'	6.5*	0.5	6	151	17	0.22
201022	13:31:19.24	37° 24.55'	112° 22.95'	10.2	1.8W	18	108	7	0.17
201022	16:18:21.51	37° 45.55'	113° 14.61'	7.9*	1.2	14	113	18	0.11
201023	01:01:42.13	36° 58.43'	113° 30.28'	10.1	1.6	15	133	12	0.17
201023	05:53:45.93	41° 16.22'	112° 42.55'	1.4*	0.9	10	140	22	0.10
201023	09:59:05.20	39° 48.58'	111° 22.94'	7.1*	1.5W	23	55	24	0.20
201023	12:00:23.41	41° 52.05'	112° 20.90'	6.4	1.1	21	81	7	0.19
201023	14:21:16.17	39° 10.46'	111° 57.64'	3.6*	1.4	14	107	26	0.13
201023	14:24:15.06	37° 21.12'	113° 22.88'	4.1*	1.0	14	97	22	0.21
201023	16:18:57.10	37° 23.29'	114° 13.39'	10.4*	1.2	13	138	33	0.22
201023	16:30:55.51	37° 03.07'	112° 53.09'	18.6	1.6	12	121	32	0.13
201023	16:39:34.20	38° 29.25'	112° 50.30'	0.2	-0.7	12	230	3	0.09
201023	16:40:03.18	38° 29.23'	112° 50.29'	0.2	-0.9	10	230	3	0.10
201023	16:40:18.80	38° 29.41'	112° 49.46'	0.2	-0.2	14	260	3	0.27
201023	16:40:34.74	38° 29.26'	112° 50.28'	0.1	-0.6	12	231	3	0.10
201023	16:40:47.77	38° 29.24'	112° 50.36'	0.1	--	9	228	3	0.10
201023	16:42:08.59	38° 29.29'	112° 49.65'	0.3	-0.2	14	254	4	0.30
201023	16:42:54.50	38° 29.25'	112° 50.19'	0.1	-0.6	10	235	3	0.11
201023	16:43:06.45	38° 29.25'	112° 50.32'	0.1	-0.4	11	229	3	0.09
201023	16:43:40.19	38° 29.29'	112° 50.67'	-0.9	-0.1	12	213	3	0.10
201023	17:01:43.96	38° 29.29'	112° 50.52'	0.0	0.8	18	140	1	0.10
201023	19:38:17.63	39° 13.90'	110° 28.07'	6.7*	1.0	15	171	14	0.14
201023	20:17:03.25	39° 00.75'	111° 26.69'	0.2	1.2W	11	90	8	0.09
201023	20:55:04.03	38° 47.43'	111° 34.31'	16.0	1.5	11	199	13	0.08
201024	01:21:50.94	39° 40.87'	110° 34.06'	-2.8	1.7	16	90	2	0.10
201024	04:08:46.54	38° 29.00'	112° 50.27'	0.4	-0.7	11	234	3	0.20
201024	13:46:36.91	36° 58.23'	113° 30.55'	9.9	1.6	21	133	12	0.16

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201024	13:46:36.96	36° 57.75'	113° 31.00'	6.9*	1.2W	11	135	25	0.12
201024	15:43:31.15	39° 42.04'	110° 43.37'	-2.3	1.5	9	144	4	0.10
201024	18:16:03.49	38° 08.24'	112° 18.93'	-1.2*	2.5W	24	83	54	0.25
201025	00:49:11.64	40° 44.66'	112° 02.17'	9.4	0.6	20	124	2	0.19
201025	01:13:43.89	38° 58.34'	111° 24.10'	-0.9	1.9	7	114	5	0.06
201025	06:31:05.54	39° 42.13'	110° 36.39'	-1.4	0.8	9	81	2	0.05
201025	10:57:35.69	38° 08.79'	112° 19.92'	-1.1*	2.2W	23	80	52	0.20
201025	12:43:17.88	40° 44.27'	112° 02.96'	8.2	0.5	15	66	2	0.08
201025	13:43:45.67	40° 28.45'	111° 56.85'	6.1	0.3	12	84	2	0.13
201025	18:13:51.18	40° 55.10'	111° 59.35'	10.5	1.3	17	155	7	0.17
201025	19:39:53.34	41° 29.02'	112° 19.83'	-1.4*	1.2W	25	99	12	0.13
201026	00:52:50.95	41° 27.15'	112° 19.27'	0.8	0.9	10	111	10	0.07
201026	12:20:33.84	41° 56.81'	112° 38.85'	1.5*	1.2	10	175	21	0.09
201026	13:04:10.85	39° 14.17'	110° 27.74'	2.3*	1.2W	14	172	15	0.10
201026	13:19:38.09	38° 09.04'	112° 19.06'	8.7*	2.4W	27	44	52	0.23
201026	14:12:43.57	40° 44.55'	112° 02.98'	6.5	0.6	11	108	2	0.10
201026	16:29:46.66	39° 45.44'	110° 55.10'	1.8*	1.0	7	171	11	0.28
201027	13:19:24.59	40° 43.77'	112° 04.17'	9.0	0.8	12	98	5	0.12
201027	18:22:37.49	39° 44.40'	110° 54.38'	-3.4*	2.1W	25	49	11	0.18
201028	00:45:57.21	37° 09.40'	112° 52.16'	18.0	2.0W	18	92	32	0.16
201028	05:42:37.65	37° 09.62'	112° 51.90'	15.8*	1.8W	19	98	32	0.20
201028	08:34:41.91	41° 56.50'	112° 36.96'	3.0*	0.6	9	162	22	0.09
201028	15:54:29.25	39° 26.07'	110° 19.52'	-2.0*	1.0	9	189	21	0.06
201028	18:35:25.73	38° 17.61'	112° 39.88'	4.0	0.5	15	104	3	0.10
201029	06:38:42.86	41° 45.85'	111° 42.89'	17.2	0.7	16	79	6	0.15
201029	08:13:22.14	41° 57.78'	112° 24.72'	5.5	0.9	16	100	8	0.09
201029	08:17:32.61	40° 44.64'	112° 02.35'	9.2	0.5	16	110	2	0.14
201029	17:48:01.07	38° 28.33'	112° 50.48'	0.2	-0.4	9	238	2	0.26
201029	19:29:16.97	38° 35.16'	112° 35.32'	1.3*	0.8	11	184	13	0.21
201029	20:54:44.15	38° 17.09'	112° 37.61'	5.6	2.1W	31	42	1	0.15
201030	00:57:12.57	40° 44.73'	112° 01.83'	6.7	0.9	16	112	4	0.06
201030	02:26:45.37	40° 43.45'	112° 03.76'	8.0	0.4	22	83	2	0.15
201030	06:17:55.11	37° 35.75'	113° 04.62'	8.9	1.1W	9	197	1	0.09
201030	08:49:02.18	40° 42.78'	112° 03.17'	9.2	0.8	15	76	2	0.06
201030	10:52:05.73	38° 10.56'	112° 45.80'	3.9*	1.3	19	124	22	0.09
201030	16:32:25.80	37° 25.43'	113° 12.38'	15.5	1.4W	10	108	10	0.14
201031	22:21:06.37	40° 44.09'	112° 04.97'	8.0	0.4	14	99	5	0.08
201101	02:22:40.32	37° 18.81'	113° 48.74'	1.5*	-0.1	9	138	17	0.15
201101	02:22:55.73	37° 19.28'	113° 48.69'	6.9*	1.0	12	85	16	0.21
201101	02:47:40.96	37° 19.32'	113° 49.36'	8.3	1.3	13	83	16	0.14
201101	03:54:39.72	38° 07.17'	113° 07.37'	7.3	1.7W	19	59	11	0.14
201101	13:46:19.77	38° 07.14'	113° 05.91'	1.0	0.9	10	121	9	0.14
201101	18:46:26.82	38° 28.87'	112° 50.23'	0.0	-0.2	10	236	3	0.30
201102	07:10:25.73	38° 28.96'	112° 50.95'	-0.3	0.5	11	135	2	0.07
201102	08:00:22.77	38° 29.26'	112° 50.32'	-0.4	-0.2	11	229	3	0.07

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201102	08:00:25.47	38° 29.66'	112° 51.24'	-0.3	-0.8	9	182	2	0.08
201102	10:19:15.70	38° 34.24'	112° 37.74'	2.7*	0.3	11	180	16	0.03
201102	15:11:12.62	39° 25.96'	110° 19.17'	0.1*	1.6	15	191	21	0.10
201102	23:54:32.55	39° 26.35'	110° 19.89'	5.9*	1.5	7	186	20	0.07
201103	00:40:15.25	40° 44.19'	112° 04.18'	8.3	0.5	16	102	3	0.08
201103	15:19:31.86	39° 26.59'	110° 19.27'	11.5	0.9	8	189	20	0.08
201103	16:27:20.95	39° 26.24'	110° 19.76'	5.9*	1.0	5	187	21	0.03
201104	09:48:41.96	40° 43.31'	112° 04.83'	10.0	0.9	19	83	4	0.10
201104	23:27:45.19	40° 46.29'	112° 05.26'	9.7	1.0	24	102	5	0.08
201104	23:59:41.95	40° 46.21'	112° 05.85'	6.7	0.4	15	118	6	0.08
201105	11:15:59.08	40° 46.37'	112° 04.89'	6.5	0.5	15	123	8	0.11
201106	02:21:45.53	41° 28.78'	112° 19.72'	0.4*	1.3	22	89	12	0.09
201106	09:03:16.37	37° 36.02'	113° 03.86'	10.0	2.0W	20	88	2	0.13
201106	10:00:30.91	38° 24.71'	112° 50.52'	4.3	0.8	19	99	5	0.16
201106	12:00:38.10	38° 33.84'	112° 37.45'	8.4	1.0	11	170	16	0.07
201107	01:59:59.42	37° 41.18'	113° 15.88'	11.8	1.3	11	111	17	0.08
201107	04:57:46.69	38° 25.01'	112° 50.45'	4.4	0.8	15	145	5	0.08
201107	07:22:50.41	41° 28.85'	112° 19.32'	1.8*	0.6	6	184	12	0.07
201107	13:01:16.50	41° 28.42'	112° 18.97'	0.1*	0.5	7	189	12	0.04
201107	14:07:35.01	38° 33.92'	112° 41.69'	5.4*	0.7	10	188	15	0.02
201107	22:50:57.80	37° 25.37'	113° 05.17'	4.3	1.2	6	206	8	0.03
201108	11:19:56.93	38° 16.44'	108° 55.66'	-0.3	3.8W	24	83	6	0.11
201108	13:32:35.23	38° 16.53'	108° 55.43'	0.5	2.2W	17	83	5	0.13
201108	13:42:48.92	38° 16.35'	108° 55.88'	-0.5	2.5W	17	83	6	0.08
201108	15:50:12.15	37° 17.51'	112° 51.33'	20.1	1.5W	10	104	25	0.10
201108	19:11:47.15	38° 33.67'	112° 42.17'	6.6*	0.7	10	187	14	0.06
201109	00:30:32.97	39° 02.52'	113° 47.41'	7.9*	1.4	12	198	57	0.10
201109	03:18:34.28	39° 41.07'	111° 31.31'	15.8	2.0W	30	61	28	0.20
201109	12:40:55.48	41° 58.88'	112° 33.70'	1.4*	0.7	6	206	19	0.09
201109	16:38:10.51	39° 25.79'	110° 18.78'	-1.2	1.4	6	194	1	0.08
201109	17:42:06.52	39° 45.01'	110° 54.48'	1.8*	1.4	11	163	11	0.29
201109	23:51:55.48	37° 39.75'	113° 05.80'	-0.2	1.7W	19	96	7	0.15
201110	05:02:25.66	40° 44.73'	111° 48.44'	4.9	1.1	19	49	4	0.11
201110	06:18:54.40	38° 29.00'	112° 50.84'	-0.3	0.1	17	138	3	0.11
201110	07:21:52.87	38° 29.03'	112° 50.41'	0.2	-0.4	12	227	3	0.06
201110	07:21:56.37	38° 28.90'	112° 50.98'	-0.3	--	7	255	2	0.05
201110	07:22:05.69	38° 28.69'	112° 51.52'	-0.2	--	9	178	2	0.08
201110	14:02:28.09	38° 24.25'	112° 49.92'	1.5	0.1	16	149	7	0.13
201110	16:50:56.71	39° 43.41'	110° 50.33'	-3.4	1.9	13	117	8	0.17
201110	17:45:26.87	38° 10.83'	112° 19.26'	1.8*	1.3W	14	152	20	0.23
201110	20:22:06.45	38° 29.37'	112° 50.59'	0.1	-0.7	15	216	3	0.09
201111	03:57:07.35	38° 16.37'	108° 55.44'	0.6	1.7	12	84	5	0.10
201111	04:24:41.14	42° 11.94'	111° 21.90'	4.8*	1.1	11	209	36	0.14
201111	09:18:33.79	40° 44.86'	112° 04.14'	8.8	2.1W	43	42	4	0.20
201111	11:34:06.17	37° 45.71'	112° 56.78'	3.3*	2.0W	20	66	22	0.26

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201111	12:37:13.23	37° 26.49'	114° 13.59'	12.9*	1.0	12	128	33	0.09
201111	17:22:04.08	37° 45.30'	113° 12.99'	6.4*	1.8W	20	87	14	0.19
201111	18:07:26.08	37° 52.01'	112° 31.71'	13.3*	1.5W	20	57	36	0.24
201112	06:26:12.60	39° 26.04'	110° 19.47'	-1.3	1.2	12	167	1	0.04
201112	11:52:09.74	37° 44.99'	113° 12.30'	-2.2*	1.8W	18	79	20	0.19
201112	13:57:08.51	37° 45.14'	113° 12.66'	0.9*	1.5	12	97	14	0.22
201112	18:39:39.90	40° 44.11'	112° 02.79'	8.5	0.8	25	40	1	0.11
201112	18:52:14.98	40° 38.48'	109° 20.23'	23.0	1.8	15	143	21	0.10
201112	21:13:48.09	39° 26.04'	110° 19.65'	-1.3	1.5	7	151	1	0.04
201113	02:49:17.08	39° 31.07'	111° 55.08'	12.9	1.5	21	64	9	0.19
201113	04:35:34.39	37° 52.03'	112° 31.98'	7.6*	2.0W	27	121	49	0.18
201113	06:15:10.53	37° 39.31'	113° 06.36'	-0.4	1.4W	23	55	7	0.24
201113	06:32:56.42	37° 51.09'	112° 32.10'	6.3*	2.0W	20	95	49	0.13
201113	11:18:53.48	40° 47.64'	111° 33.84'	11.9	0.8W	16	85	15	0.10
201113	13:31:17.23	40° 44.27'	112° 02.40'	8.6	1.0	14	91	1	0.05
201113	19:13:40.98	41° 48.43'	111° 37.46'	10.5	0.9	13	82	12	0.12
201113	20:22:01.42	41° 49.29'	111° 36.10'	7.7	1.4	15	127	14	0.27
201114	01:40:58.10	39° 30.63'	111° 56.33'	0.5*	1.2	9	113	11	0.23
201114	08:06:02.64	39° 29.38'	111° 28.51'	6.5*	1.4W	18	98	29	0.10
201114	12:11:09.70	39° 29.56'	111° 28.43'	6.4*	1.3W	18	98	28	0.14
201114	13:25:53.17	41° 30.78'	112° 10.61'	6.1	1.1	13	79	11	0.11
201114	20:01:34.73	39° 11.39'	112° 00.92'	-2.8	1.9W	20	83	10	0.27
201114	20:42:08.40	39° 42.14'	110° 43.35'	-2.2	1.4	9	144	4	0.11
201114	21:44:08.11	38° 36.51'	112° 33.32'	0.7	0.6	11	132	9	0.27
201114	21:50:07.81	38° 34.83'	112° 32.56'	1.7	0.7	10	150	9	0.07
201114	23:56:40.87	39° 31.37'	111° 06.53'	3.5*	1.6	8	129	15	0.13
201115	02:27:27.15	38° 29.43'	112° 50.46'	-0.2	-0.7	10	222	3	0.06
201115	04:53:48.78	37° 54.78'	113° 02.99'	4.9*	1.2	19	94	22	0.16
201115	10:10:55.57	38° 11.28'	112° 52.29'	0.3*	1.5	18	140	14	0.16
201115	15:14:00.35	38° 25.17'	112° 50.70'	5.2	1.3	24	98	5	0.13
201116	06:22:23.96	40° 46.17'	112° 04.51'	9.3	0.7	16	119	4	0.09
201116	06:23:28.39	39° 25.86'	110° 18.67'	-1.2	1.5	14	194	1	0.10
201116	20:35:00.52	39° 26.03'	110° 19.99'	-1.4	0.8	7	138	1	0.03
201116	21:41:14.43	40° 00.01'	111° 18.39'	15.9	2.6W	50	52	27	0.20
201116	21:41:21.30	39° 58.33'	111° 19.13'	19.8	2.9W	20	151	28	0.13
201116	22:10:02.04	39° 52.95'	111° 37.86'	11.6	2.0W	37	60	20	0.21
201117	00:56:11.63	39° 25.96'	110° 19.12'	-1.2	1.1	8	181	1	0.07
201117	01:47:23.28	39° 43.43'	110° 55.28'	-1.3*	1.5	15	152	14	0.26
201117	04:41:25.82	41° 51.40'	112° 12.49'	3.0*	0.7	11	96	13	0.09
201117	14:27:37.24	36° 55.26'	113° 42.43'	22.2	1.5	12	211	17	0.12
201117	19:56:48.42	40° 00.01'	111° 18.16'	17.1*	1.6	27	69	46	0.16
201117	21:12:57.72	40° 45.42'	112° 03.75'	9.6	1.9W	35	45	4	0.12
201118	00:28:40.32	40° 45.27'	112° 04.24'	9.8	0.8	14	78	4	0.11
201118	09:41:17.66	38° 29.39'	112° 50.48'	0.1	0.0	14	221	3	0.04
201118	09:41:24.73	38° 29.98'	112° 51.19'	0.0	--	9	237	2	0.02

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201118	10:39:22.68	41° 46.70'	112° 41.97'	3.7*	1.4	20	183	24	0.14
201118	18:58:50.99	38° 28.88'	112° 50.09'	0.0	0.0	13	241	3	0.11
201118	20:53:20.75	39° 26.00'	110° 20.17'	-1.6	1.4	6	118	1	0.05
201118	21:39:32.75	38° 29.15'	112° 50.50'	-0.2	0.5	21	222	1	0.15
201118	22:17:12.64	40° 43.71'	112° 03.62'	10.2	2.5W	47	43	2	0.18
201118	23:34:08.04	38° 28.89'	112° 50.36'	0.1	-0.3	14	231	2	0.09
201119	00:16:45.06	38° 28.75'	112° 50.60'	0.2	-0.3	13	223	3	0.10
201119	01:11:29.65	38° 36.46'	112° 33.48'	-0.9	2.3W	25	59	10	0.14
201119	04:38:55.66	39° 25.93'	110° 19.31'	-1.1	0.9	9	133	1	0.04
201119	15:02:34.94	38° 32.29'	112° 15.20'	10.9	1.4	17	142	19	0.13
201119	19:43:38.33	40° 43.79'	112° 01.36'	8.4	1.7W	41	46	1	0.23
201120	02:51:36.47	39° 43.20'	110° 43.96'	-2.2	2.2W	26	47	1	0.17
201120	03:37:32.19	41° 37.74'	111° 40.89'	9.4	1.1	23	53	10	0.14
201120	03:37:38.80	41° 37.69'	111° 41.20'	8.9	1.1	13	104	9	0.03
201120	03:38:14.33	41° 37.86'	111° 40.82'	8.1	1.5W	25	57	10	0.18
201120	03:38:30.84	41° 36.82'	111° 40.40'	7.6	0.9	8	155	9	0.16
201120	04:33:16.75	41° 38.09'	111° 40.74'	10.0	1.1	19	56	10	0.14
201120	04:33:48.35	41° 38.34'	111° 40.69'	8.7	0.7	13	90	10	0.12
201120	11:03:08.62	41° 38.08'	111° 40.94'	11.1	0.9	16	93	10	0.08
201120	11:03:57.41	41° 37.91'	111° 41.15'	13.0	0.1	9	95	10	0.06
201120	18:21:35.67	38° 28.49'	112° 50.51'	0.1	-0.7	10	232	2	0.04
201120	18:21:41.17	38° 28.47'	112° 50.45'	0.1	-0.1	14	235	3	0.03
201120	20:48:06.61	38° 36.23'	112° 33.09'	1.9	1.0	15	137	9	0.22
201121	02:12:40.69	37° 34.45'	113° 02.17'	10.0*	1.0	9	257	25	0.08
201121	02:36:12.44	38° 10.66'	111° 14.26'	5.7*	1.7W	18	107	51	0.08
201121	02:57:32.68	41° 53.28'	112° 15.70'	6.3	1.4	26	98	7	0.20
201121	03:11:13.54	37° 34.20'	113° 01.95'	10.1	1.6W	19	61	6	0.15
201121	07:10:55.41	38° 35.00'	112° 32.50'	4.4	1.0	16	148	9	0.09
201121	10:07:49.47	41° 53.87'	112° 15.26'	4.6	0.4	10	87	7	0.14
201121	18:45:21.97	41° 02.65'	111° 29.40'	12.0	0.9	13	75	11	0.08
201122	00:37:11.25	37° 39.21'	113° 13.81'	0.4*	1.3W	18	61	13	0.13
201122	06:03:42.54	37° 34.51'	113° 01.94'	10.9	1.3W	18	79	5	0.12
201122	08:59:25.64	38° 29.52'	112° 50.36'	0.0	0.4	15	140	1	0.10
201122	08:59:42.11	38° 29.39'	112° 50.81'	-0.9	-0.4	15	132	1	0.13
201122	09:00:12.93	38° 29.27'	112° 50.69'	0.1	-0.7	10	211	3	0.04
201122	09:02:16.13	38° 29.46'	112° 50.19'	-0.2	0.4	16	234	2	0.09
201122	10:51:35.51	40° 43.88'	112° 03.81'	10.2	1.8W	38	40	2	0.16
201122	13:33:46.52	40° 43.94'	112° 03.73'	9.0	0.6	20	101	2	0.11
201122	13:35:47.61	40° 43.51'	112° 04.24'	6.5	0.7	22	53	3	0.14
201122	14:10:24.70	41° 28.52'	112° 53.79'	2.1*	1.1	13	191	42	0.12
201122	22:48:06.18	38° 28.62'	112° 51.36'	-0.2	--	8	229	2	0.03
201123	13:32:22.75	41° 17.66'	112° 43.51'	6.0*	1.0	17	158	23	0.09
201123	17:16:41.47	39° 25.92'	110° 19.79'	-1.1	1.2	8	137	1	0.05
201123	21:32:29.13	39° 43.90'	110° 55.97'	-0.9*	1.0W	13	160	14	0.26
201124	01:59:40.14	39° 11.08'	112° 01.18'	3.8	1.5W	12	84	10	0.12

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201124	08:18:07.88	39° 42.14'	110° 43.18'	-2.0	1.6	9	143	4	0.09
201124	08:42:13.38	41° 00.86'	111° 35.48'	10.6	2.0W	41	84	7	0.13
201124	15:34:27.78	41° 28.17'	112° 20.25'	-0.9*	1.4	14	122	11	0.11
201124	16:42:57.30	41° 28.40'	112° 20.04'	-0.3*	1.6	21	112	11	0.11
201124	16:55:00.24	39° 34.91'	110° 24.90'	-3.5	1.3	6	121	4	0.11
201124	21:44:58.77	39° 42.39'	110° 44.61'	-3.3	1.7	9	154	3	0.10
201125	01:32:41.18	41° 45.32'	112° 22.45'	4.3*	2.5W	35	129	12	0.26
201125	01:33:14.53	41° 45.46'	112° 21.50'	3.8*	1.2	7	148	13	0.07
201125	10:44:37.65	37° 30.59'	113° 29.01'	7.5	1.3	13	106	12	0.18
201125	11:08:10.81	40° 44.69'	112° 04.08'	7.8	0.8	16	108	3	0.04
201125	21:17:13.67	38° 59.13'	111° 25.56'	4.2*	1.2	6	209	23	0.16
201126	07:27:18.92	37° 33.46'	112° 19.10'	7.4	1.4	15	117	13	0.21
201126	09:21:10.22	40° 28.77'	111° 20.07'	14.4	0.6	12	124	2	0.10
201127	12:13:59.50	38° 20.65'	112° 33.17'	8.6	1.2	16	186	11	0.11
201127	13:07:11.17	38° 29.03'	112° 51.52'	0.0	--	8	174	2	0.10
201127	13:07:13.75	38° 29.31'	112° 50.76'	-0.1	--	10	209	2	0.05
201127	15:17:54.25	39° 36.30'	110° 23.82'	-2.0	1.4	14	84	1	0.10
201127	21:01:22.35	41° 29.39'	112° 21.33'	0.6*	1.1	14	135	12	0.18
201128	01:53:10.75	38° 28.94'	112° 50.45'	0.1	--	10	226	3	0.10
201128	01:53:22.20	38° 28.89'	112° 50.47'	0.1	-0.5	11	226	3	0.08
201128	01:53:42.90	38° 28.86'	112° 50.59'	0.2	-0.3	11	221	3	0.06
201128	01:54:01.64	38° 28.91'	112° 50.56'	0.1	-0.4	12	222	3	0.05
201128	13:14:42.11	40° 44.46'	112° 02.68'	9.2	0.8	19	60	2	0.13
201128	16:37:33.30	39° 25.71'	110° 17.92'	-1.7	1.7	16	198	2	0.18
201128	17:45:22.86	39° 41.89'	110° 43.84'	-3.0	1.6	11	108	4	0.07
201128	18:07:35.18	41° 48.37'	112° 21.47'	5.8*	0.4	9	132	14	0.18
201129	05:39:58.06	39° 10.03'	110° 38.67'	13.4	1.3	19	71	12	0.16
201129	12:59:58.99	37° 42.45'	113° 11.04'	-0.1	2.0W	29	48	10	0.25
201129	18:45:27.12	37° 27.40'	113° 19.41'	2.2*	1.2W	14	71	11	0.13
201130	10:37:20.65	40° 44.08'	112° 02.98'	6.8	0.7	17	89	1	0.10
201130	18:09:35.70	38° 07.11'	112° 15.20'	5.2	1.6W	15	142	10	0.18
201130	18:43:44.82	38° 08.65'	112° 14.38'	-3.5*	1.6W	10	162	12	0.22
201201	01:04:59.05	41° 50.97'	112° 41.85'	6.4*	1.8	24	188	28	0.18
201202	07:05:13.42	41° 27.47'	112° 19.34'	1.1	0.6	8	124	10	0.24
201203	01:47:23.38	41° 52.33'	112° 41.42'	1.3*	0.9	9	222	30	0.09
201203	01:59:42.20	41° 50.62'	112° 42.08'	3.0*	1.0	11	213	28	0.19
201203	16:47:11.99	37° 53.52'	112° 31.18'	10.6*	1.2	14	129	48	0.26
201203	17:32:43.89	40° 43.77'	112° 04.06'	9.5	0.8	16	98	3	0.08
201203	20:55:04.35	37° 35.75'	113° 04.12'	10.7	2.4W	23	51	2	0.24
201204	02:22:15.71	38° 38.12'	112° 20.20'	13.8	1.1	12	115	10	0.15
201204	02:57:26.74	38° 36.57'	112° 18.76'	12.9	1.2	13	106	12	0.12
201204	05:07:20.28	41° 46.12'	111° 41.96'	16.9	0.8	16	87	7	0.11
201204	17:27:41.19	38° 28.99'	112° 50.64'	-0.4	0.7	13	218	3	0.08
201204	17:27:46.38	38° 28.88'	112° 50.96'	-0.3	0.1	12	203	3	0.08
201204	17:27:57.84	38° 30.04'	112° 51.88'	-3.5	-0.8	6	191	1	0.03

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201204	17:28:26.67	38° 28.88'	112° 50.87'	-0.1	0.2	9	208	3	0.07
201205	06:50:51.18	39° 11.11'	112° 00.84'	1.4	1.4	16	85	10	0.32
201205	11:28:08.95	40° 43.03'	112° 03.59'	8.4	0.4	14	82	2	0.07
201205	22:56:31.19	40° 43.35'	112° 03.63'	8.8	1.1	34	50	2	0.14
201205	23:50:30.95	40° 43.97'	112° 03.70'	9.8	1.9W	46	29	2	0.17
201206	00:37:16.85	40° 42.91'	112° 03.74'	9.6	0.9	23	81	3	0.11
201206	00:46:42.49	40° 44.60'	112° 03.58'	6.4	0.9	12	107	3	0.08
201206	18:03:28.65	37° 53.71'	113° 35.53'	12.6	1.2	14	69	18	0.05
201207	01:53:27.82	38° 35.52'	112° 33.07'	-0.8	1.5	16	139	9	0.14
201207	11:17:55.12	38° 26.94'	112° 50.70'	3.2	-0.3	10	251	2	0.11
201207	13:37:12.16	38° 24.66'	112° 50.15'	1.0	--	18	147	6	0.12
201207	13:37:15.30	38° 25.43'	112° 50.00'	3.5	0.8	19	145	5	0.06
201207	13:37:18.38	38° 24.93'	112° 49.35'	0.0	1.1	21	149	6	0.11
201207	16:42:00.61	39° 42.45'	110° 44.71'	-3.5	1.5	9	155	3	0.07
201207	19:58:54.60	38° 29.42'	112° 25.40'	9.3	1.0	9	238	13	0.02
201208	03:17:56.45	39° 13.37'	110° 27.63'	10.3	1.2	16	163	14	0.16
201208	03:37:09.25	38° 29.40'	112° 50.16'	0.6	0.3	17	235	2	0.11
201208	09:25:18.65	40° 43.62'	112° 05.08'	10.2	1.3W	28	60	4	0.15
201208	19:03:32.28	41° 33.85'	111° 41.28'	10.1	1.1	14	75	8	0.12
201208	22:53:42.51	38° 16.32'	108° 55.38'	0.4	3.7W	21	84	5	0.11
201209	02:23:09.49	38° 16.37'	108° 55.81'	-0.5	1.6	9	97	6	0.13
201209	04:19:17.26	40° 43.43'	112° 03.29'	8.4	0.4	14	94	2	0.09
201209	06:23:03.84	38° 27.25'	109° 02.23'	-0.4*	1.8	14	80	13	0.17
201209	18:58:29.64	38° 47.71'	111° 30.01'	9.6	1.2	9	112	7	0.07
201209	21:37:46.16	38° 19.66'	112° 25.77'	1.7*	0.8	10	147	31	0.06
201209	22:58:20.11	39° 22.24'	111° 50.47'	7.6	1.1	12	76	15	0.12
201210	11:44:46.10	36° 46.21'	112° 47.51'	19.1	1.7	15	94	27	0.14
201210	19:01:12.74	40° 49.96'	111° 58.90'	4.9	1.0	18	82	7	0.10
201210	20:09:33.39	39° 42.39'	110° 44.77'	-3.3	1.8	14	74	3	0.09
201210	23:47:51.27	38° 34.52'	112° 40.49'	2.8*	0.4	11	192	17	0.03
201211	00:41:12.72	37° 14.34'	112° 51.17'	19.1	1.5W	18	86	25	0.16
201211	01:21:48.86	38° 47.55'	111° 29.40'	10.2	1.2	10	154	6	0.14
201211	09:33:40.82	41° 26.61'	112° 18.98'	0.5	0.9	12	113	10	0.15
201211	16:03:12.83	40° 34.33'	111° 32.09'	0.3	0.9	23	89	9	0.14
201212	03:49:17.55	41° 26.76'	112° 18.80'	0.4	1.1	21	102	10	0.16
201212	08:45:31.23	41° 25.74'	112° 16.92'	0.9*	0.6	7	199	11	0.10
201212	10:15:27.12	40° 18.46'	111° 22.30'	10.9	2.4W	44	55	15	0.17
201212	13:41:37.25	38° 11.01'	111° 14.96'	5.9*	1.5	11	107	52	0.10
201212	14:34:12.13	41° 32.44'	111° 42.83'	10.1	1.6W	25	51	7	0.12
201212	18:24:24.36	40° 46.94'	111° 36.03'	11.5	0.9	18	85	16	0.11
201212	20:43:13.32	38° 16.32'	108° 55.28'	0.9	2.1	14	119	5	0.06
201213	05:39:43.93	40° 43.72'	112° 05.66'	9.9	0.8	26	50	5	0.17
201213	09:05:09.06	38° 42.83'	111° 37.80'	9.8	1.9W	20	104	19	0.18
201213	10:20:04.44	40° 19.16'	111° 28.63'	6.6	0.6	21	56	11	0.16
201213	21:24:17.87	40° 45.43'	112° 03.01'	7.3	0.3	13	205	4	0.12

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201213	22:08:38.42	37° 46.30'	112° 21.01'	3.1*	1.8	14	82	33	0.18
201214	04:41:58.86	38° 44.27'	111° 36.54'	7.7*	1.6	8	229	17	0.04
201214	08:09:49.17	40° 43.64'	112° 04.09'	8.7	0.1	14	124	3	0.10
201214	13:08:27.52	37° 32.03'	113° 17.40'	2.1	1.2W	9	94	7	0.11
201214	14:35:12.63	41° 50.29'	112° 24.77'	0.3*	0.5	7	155	12	0.07
201214	19:36:01.66	38° 33.64'	112° 35.12'	5.5*	1.5	11	180	13	0.09
201215	06:11:04.88	38° 10.01'	113° 07.18'	9.0	0.8	15	105	13	0.07
201215	06:33:37.05	37° 25.92'	113° 08.05'	5.3	1.4	13	136	8	0.07
201215	11:16:56.07	41° 33.95'	111° 40.11'	11.5	0.8	17	94	10	0.21
201215	11:41:49.69	40° 25.27'	109° 44.40'	55.8	1.4W	17	103	22	0.21
201215	12:15:03.00	41° 56.64'	112° 34.07'	1.7*	0.8	9	171	20	0.11
201215	18:05:33.44	40° 43.68'	112° 04.43'	9.8	0.7	14	97	3	0.06
201215	21:13:12.03	37° 26.00'	113° 08.94'	4.8	1.4	15	72	9	0.12
201215	23:24:08.23	38° 16.32'	108° 55.50'	0.4	1.6	13	84	5	0.07
201215	23:25:39.68	40° 44.28'	112° 03.10'	7.4	0.9	11	116	2	0.08
201216	00:03:50.31	38° 09.47'	112° 21.43'	6.0*	1.5	18	122	51	0.16
201216	06:17:34.00	38° 25.92'	109° 57.57'	6.0*	1.8	10	123	63	0.17
201216	08:37:24.13	41° 47.89'	112° 09.83'	12.4	0.7	12	78	14	0.26
201216	08:51:08.86	37° 25.85'	113° 08.81'	5.9	1.5W	21	72	9	0.13
201216	10:36:02.97	37° 25.92'	113° 08.54'	5.5	1.5W	14	74	9	0.13
201216	13:06:09.80	41° 41.06'	112° 23.61'	4.8	1.1	9	95	5	0.10
201216	17:42:18.62	37° 42.70'	113° 03.48'	9.4	1.0	15	183	6	0.10
201216	22:34:59.50	40° 43.34'	112° 04.06'	9.3	0.9	17	95	4	0.12
201217	02:07:48.71	42° 05.05'	111° 42.37'	7.2	1.7	21	169	7	0.15
201217	05:22:47.79	39° 07.75'	110° 50.56'	17.9	2.4W	25	55	28	0.19
201217	09:05:09.32	40° 22.15'	111° 26.00'	6.1	1.2	23	132	9	0.19
201217	15:09:25.10	38° 13.97'	112° 20.29'	2.9*	2.7W	33	45	27	0.24
201218	00:26:21.29	38° 15.67'	112° 23.96'	5.8*	1.3	13	191	39	0.15
201218	04:04:55.99	40° 44.53'	112° 02.30'	7.6	0.4	14	108	2	0.14
201218	15:51:28.30	39° 25.94'	110° 19.70'	-1.2	1.4	10	145	1	0.06
201218	19:38:50.61	37° 32.83'	113° 03.73'	5.5	1.1	10	182	6	0.05
201218	22:43:30.34	41° 47.85'	112° 44.55'	1.5*	1.7	17	191	28	0.09
201219	02:42:59.57	41° 47.76'	112° 45.17'	1.5*	1.0	15	192	28	0.21
201219	17:34:20.44	38° 08.41'	112° 19.74'	5.9*	1.7W	17	86	53	0.28
201219	18:31:10.74	38° 09.08'	112° 23.52'	2.4*	1.9W	18	158	51	0.25
201219	20:37:01.93	40° 44.54'	112° 02.51'	7.9	0.5	11	109	2	0.09
201220	01:53:43.06	38° 16.60'	108° 55.32'	0.8	3.3W	22	83	5	0.11
201220	02:11:06.19	38° 16.39'	108° 55.76'	0.0	4.3W	25	83	6	0.13
201220	02:54:37.29	38° 16.31'	108° 55.35'	0.5	1.7	15	84	5	0.07
201220	03:10:31.24	38° 16.32'	108° 56.00'	-0.5	--	10	115	6	0.07
201220	17:00:03.94	40° 44.12'	112° 03.19'	7.4	1.0	21	45	2	0.12
201220	21:01:14.13	38° 16.74'	108° 55.41'	1.0	1.9W	17	83	5	0.16
201221	00:25:20.95	37° 50.38'	112° 29.60'	8.7*	2.1W	24	60	47	0.21
201221	07:11:09.47	39° 25.80'	110° 18.92'	-1.2	1.6	14	192	1	0.10
201221	21:54:23.59	40° 43.86'	112° 03.39'	6.8	0.8	17	100	2	0.13

Table 2. Earthquakes in the Utah Region: October 1–December 31, 2020

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
201221	23:56:37.84	37° 11.34'	112° 53.50'	21.3	1.6W	17	76	20	0.14
201222	06:13:14.51	39° 25.88'	110° 19.41'	-1.2	0.9	6	173	1	0.03
201222	12:11:07.00	38° 07.89'	112° 20.21'	-3.0*	2.2W	24	123	31	0.22
201222	12:17:06.49	38° 08.97'	112° 24.46'	5.9*	1.6	12	181	51	0.30
201223	23:14:49.34	37° 03.26'	113° 28.92'	15.3	1.6	10	248	22	0.18
201224	04:06:58.38	41° 17.03'	111° 39.52'	12.8	1.6	31	99	23	0.14
201224	04:12:47.83	41° 17.06'	111° 39.61'	12.6	0.9	15	99	23	0.08
201224	04:14:17.85	41° 16.99'	111° 39.61'	12.0	1.1	22	98	24	0.14
201224	10:25:19.02	41° 31.57'	109° 48.59'	-3.2	1.7	14	101	10	0.16
201225	02:15:17.30	38° 23.75'	112° 09.50'	3.9*	1.5	14	109	35	0.15
201225	07:29:26.99	39° 04.61'	110° 49.83'	5.9*	1.3W	11	157	27	0.18
201225	17:48:17.20	40° 43.08'	112° 03.10'	7.9	1.1	21	77	2	0.12
201226	02:44:51.33	37° 28.54'	112° 49.96'	24.4	0.9	13	106	26	0.09
201226	21:20:06.29	40° 43.05'	112° 03.12'	7.8	1.0	18	75	2	0.10
201227	02:07:56.79	40° 43.22'	111° 43.73'	4.4	1.0	12	98	4	0.11
201227	19:30:05.95	40° 44.29'	112° 03.61'	9.1	0.8	14	104	2	0.08
201228	01:53:58.50	40° 44.19'	112° 03.34'	6.8	0.8W	20	90	2	0.11
201228	10:33:41.34	40° 26.73'	112° 00.00'	10.1	1.0	20	84	4	0.18
201228	18:58:19.82	39° 26.11'	110° 19.53'	-1.8	1.3	11	161	1	0.12
201228	19:35:46.11	40° 26.60'	111° 59.86'	10.5	1.0	20	126	4	0.17
201229	01:12:01.08	40° 26.80'	111° 59.44'	10.6	1.1	10	196	3	0.12
201229	10:44:08.07	40° 44.82'	112° 03.58'	7.1	1.1W	28	55	3	0.17
201229	17:16:06.82	39° 26.17'	110° 19.44'	-1.9	1.7	10	168	1	0.07
201230	16:14:36.10	38° 08.40'	112° 19.57'	5.6*	2.2W	10	131	53	0.19
201230	16:23:02.57	38° 07.17'	112° 19.56'	0.6*	2.1W	11	87	57	0.21
201231	01:31:18.74	41° 39.04'	111° 39.35'	10.5	0.7	11	149	9	0.09

number of earthquakes = 566

* indicates poor depth control

M indicates moment magnitude

W indicates Wood-Anderson data used for magnitude calculation

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
December 31, 2020

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

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

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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
DCM	Dugout Coal Mine, UT	EHZ	1	UU	39° 41.70'	110° 35.00'	2537	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	EHZ	1	UU	40° 24.82'	111° 31.61'	1829	L4C	PSN	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.61'	111° 57.65'	1282	EpiSensor	Etna2	Digital	ANSS
DUG	Dugway, UT	BH[ZEN]	3	US	40° 11.70'	112° 48.80'	1477	STS-2	Q330	Digital	USGS
DVCI	Devils Canyon, ID	HH[ZEN]	3	IE	44° 22.99'	114° 02.31'	1997	Trillium 120	Q330	Digital	INL
DWU	Dry Willow, UT	EHZ	1	UU	38° 06.32'	112° 59.85'	2270	S13	PSN	Analog	Utah
ECRI	Eagle Creek, ID	EHZ	1	IE	43° 03.24'	111° 22.26'	2086	*	*	Digital	INL
ECUT	Ebbs Canyon, Scipio, UT	HH[ZEN]	3	UU	39° 10.30'	112° 07.99'	2136	Trillium 120	Centaur	Digital	Utah
EKU	East Kanab, UT	EHZ	1	UU	37° 04.48'	112° 29.81'	1829	S13	PSN	Analog	Utah
ELE	East Layton Elementary School, East Layton, UT	EN[ZEN]	3	UU	41° 04.84'	111° 55.09'	1444	EpiSensor	Etna2	Digital	ANSS
ELK	Elko, NV	BH[ZEN]	3	US	40° 44.69'	115° 14.33'	2210	*	*	Digital	USGS
ELU	Electric Lake, UT	EHZ	1	UU	39° 38.41'	111° 12.23'	2970	L4C	PSN	Analog	Utah
EMF	Eagle Mountain Gas Tap, UT	EN[ZEN]	3	UU	40° 16.89'	111° 59.92'	1487	EpiSensor	Etna2	Digital	ANSS
EMU	Emma Park, UT	EH[ZEN]	3	UU	39° 48.84'	110° 48.92'	2268	S13	PSN	Analog	USGS
		EN[ZEN]	3					FBA23	K2	Digital	Utah
EOCU	EOC, State Capitol Campus, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.62'	111° 53.95'	1356	EpiSensor	Basalt	Digital	Utah
EPU	East Promontory, UT	EHZ	1	UU	41° 23.49'	112° 24.53'	1436	L4C	PSN	Analog	USGS
ETW	Elwood Town Hall, Elwood, UT	EN[ZEN]	3	UU	41° 40.15'	112° 08.53'	1305	EpiSensor	Etna2	Digital	ANSS
FLU	Fool's Peak, UT	EHZ	1	UU	39° 22.69'	112° 10.29'	1951	18300	Basalt	Digital	USGS
		EN[ZEN]	3								
FLWY	Flagg Ranch, WY	BH[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
FORK	Blundell, UT	EH[Z12]	3	UU	38° 30.07'	112° 53.19'	1408	Omni-2400	Obsidian	Digital	Utah
		GH[Z12]	3								
		EN[Z12]	3								
		GN[Z12]	3								
FORU	South Mineral Mountains, UT	HH[ZEN]	3	UU	38° 27.53'	112° 51.68'	1840	40T	ANSS-130	Digital	Utah
FORW	Milford Wind Farm, UT	EN[ZEN]	3	UU	38° 33.76'	112° 56.21'	1516	EpiSensor	Obsidian	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
FPU	Francis Peak, UT	EHZ	1	UU	41° 01.58'	111° 50.21'	2816	L4C	PSN	Analog	USGS
FSB1	FORGE surface borehole 1, UT	DN[12Z]	3	UU	38° 29.10'	112° 53.48'	1697	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSB2	FORGE surface borehole 2, UT	DN[12Z]	3	UU	38° 30.44'	112° 54.98'	1587	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSB3	FORGE surface borehole 3, UT	DN[12Z]	3	UU	38° 30.80'	112° 52.84'	1701	Titan	Centaur	Digital	Utah
		EN[12Z]	3					Compact			
		HH[12Z]	3								
FSU	Fish Springs, UT	EHZ	1	UU	39° 43.35'	113° 23.48'	1487	18300	PSN	Analog	Utah
FTT	Fire Training Tower, Magna, UT	EN[ZEN]	3	UU	40° 41.16'	112° 04.99'	1381	EpiSensor	Etna2	Digital	ANSS
GAWY	Genesis Alkali Granger, WY	HH[ZEN]	3	UU	41° 44.43'	109° 51.13'	2011	Trillium 120	Centaur	Digital	Utah
GBI	Big Grassy Butte, ID	HH[ZEN]	3	IE	43° 59.22'	112° 03.78'	1541	*	*	Digital	INL
GCAZ	Grand Canyon, AZ	EHZ	1	AR	36° 03.51'	112° 11.02'	2072	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	EN[ZEN]	3	UU	40° 36.04'	112° 28.48'	1320	EpiSensor	Etna2	Digital	ANSS
GMU	Granite Mountain, UT	EH[ZEN]	3	UU	40° 34.53'	111° 45.79'	1829	S13	PSN	Analog	USGS
GRR1	Grays Lake, ID	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INL
GZU	Grizzly Peak, UT	EH[ZEN]	3	UU	41° 25.53'	111° 58.50'	2646	S13	PSN	Analog	USGS
HAFB	Hill Air Force Base, Hill AFB, UT	EN[ZEN]	3	UU	41° 07.07'	111° 58.55'	1471	EpiSensor	Etna2	Digital	Utah
HCSU	Hobble Creek, Springville, UT	EHZ	1	UU	40° 12.40'	111° 30.14'	1789	L4C	Basalt	Digital	Utah, USGS
		EN[ZEN]	3					EpiSensor			
HDU	Hyde Park, UT	EHZ	1	UU	41° 48.18'	111° 45.99'	1807	L4C	PSN	Analog	USGS
HEB	Heber, UT	EHZ	1	UU	40° 30.09'	111° 20.15'	1925	S13	PSN	Analog	Utah
HER	Herriman Fire Station Herriman, UT	EN[ZEN]	3	UU	40° 30.94'	112° 01.85'	1502	EpiSensor	Etna2	Digital	ANSS
HES	Hooper Elementary School Hooper, UT	EN[ZEN]	3	UU	41° 09.89'	112° 07.30'	1292	EpiSensor	K2	Digital	ANSS
HHAI	Hell's Half Acre, ID	HH[Z12]	3	IE	43° 17.70'	112° 22.74'	1371	*	*	Digital	INL
HHS	Hurricane High School, UT	EN[ZEN]	3	UU	37° 10.43'	113° 17.74'	987	EpiSensor	Etna2	Digital	Utah
HLID	Hailey, ID	BH[ZEN]	3	US	43° 33.75'	114° 24.83'	1772	*	*	Digital	USGS
HLJ	Hailstone, UT	EHZ	1	UU	40° 36.64'	111° 24.05'	1931	S13	PSN	Analog	Utah
		EN[ZEN]	3					FBA23	K2	Digital	
HMU	Henry Mountain, UT	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
HRU	Hogsback Ridge, UT	EHZ	1	UU	40° 47.67'	111° 53.14'	1620	L4C	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Obsidian	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
HTU	Hoyt, UT	EHZ	1	UU	40° 40.52'	111° 13.21'	2576	L4C	PSN	Analog	USGS
		EHZ	1					Basalt	Digital		
		EN[ZEN]	3					Episensor			
HVU	Hansel Valley, UT	HH[ZEN]	3	UU	41° 46.78'	112° 46.50'	1609	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			
HWUT	Hardware Ranch, UT	BH[ZEN]	3	US	41° 36.41'	111° 33.91'	1830	*	*	Digital	USGS
IAE	Cedar City, Iron County Adult Education, UT	EN[ZEN]	3	UU	37° 39.91'	113° 40.02'	1807	EpiSensor	Etna	Digital	Utah
ICF	International Center Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.69'	112° 01.72'	1281	EpiSensor	Etna2	Digital	ANSS
ICU	Indian Springs Canyon, UT	EHZ	1	UU	37° 08.98'	113° 55.41'	1451	S13	PSN	Analog	Utah
IMU	Iron Mountain, UT	EHZ	1	UU	38° 37.99'	113° 09.50'	1833	L4C	PSN	Analog	Utah
IMW	Indian Meadows, WY	BH[ZEN]	3	IW	43° 53.58'	110° 56.58'	2670	3ESP	RT-130	Digital	ANSS
ISCO	Idaho Springs, CO	BH[ZEN]	3	US	39° 47.98'	105° 36.80'	2743	STS-2	Q330	Digital	ANSS
JRP	Jordan River State Park Salt Lake City, UT	EN[ZEN]	3	UU	40° 49.54'	111° 56.66'	1284	EpiSensor	Etna2	Digital	ANSS
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	Etna2	Digital	ANSS
LOHW	National Elk Refuge, WY	BH[ZEN]	3	IW	43° 36.76'	110° 36.30'	2245	3ESP	RT-130	Digital	ANSS
LRG	Logan River Golf Course Logan, UT	EN[ZEN]	3	UU	41° 42.82'	111° 51.08'	1362	EpiSensor	Etna2	Digital	ANSS
LSU	Lake Shores, UT	EN[ZEN]	3	UU	40° 07.94'	111° 43.80'	1375	EpiSensor	Etna2	Digital	ANSS
LTU	Little Mountain, UT	EHZ	1	UU	41° 35.51'	112° 14.83'	1585	L4C	PSN	Analog	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		EHZ	1						Basalt	Digital	
		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			
MHS2	Milford High School, UT	EN[ZEN]	3	UU	38° 23.97'	113° 00.78'	1529	EpiSensor	Etna2	Digital	Utah
MID	Middle Canyon, UT	EN[ZEN]	3	UU	40° 31.04'	112° 15.28'	1722	EpiSensor	Etna2	Digital	ANSS
MLI	Malad Range, ID	EHZ	1	UU	42° 01.61'	112° 07.53'	1896	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
MMU	Miners Mountain, UT	EHZ	1	UU	38° 11.57'	111° 17.66'	2387	S13	PSN	Analog	Utah
MOMT	Monida, MT	EHZ	1	MB	44° 35.60'	112° 23.66'	2220	*	*	Analog	MBMT
MOOW	Moose Ponds, WY	BH[ZEN]	3	IW	43° 44.92'	110° 44.69'	2128	3ESP	RT-130	Digital	ANSS
MOR	Morgan, UT	EN[ZEN]	3	UU	41° 02.77'	111° 39.94'	1633	Applied Mems	ANSS-130	Digital	ANSS
MOUT	Mount Ogden, UT	EHZ	1	UU	41° 11.94'	111° 52.73'	2743	S13	PSN	Analog	USGS
MPU	Maple Canyon, UT	EN[ZEN]	3	UU	40° 00.93'	111° 38.00'	1909	EpiSensor	Centaur	Digital	ANSS USGS
		HH[ZEN]	3					Observer			
MSU	Marysvale, UT	EHZ	1	UU	38° 30.74'	112° 10.63'	2105	18300	PSN	Analog	Utah
MTPU	Mt. Pierson, UT	EN[ZEN]	3	UU	38° 02.49'	112° 11.06'	3112	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
MTUT	Morton Thiokol, UT	EHZ	1	UU	41° 42.55'	112° 27.28'	1373	L4C	PSN	Analog	USGS
MVCO	Mesa Verde, CO	BH[ZEN]	3	US	37° 12.62'	108° 29.92'	2170	STS-2	Q330	Digital	ANSS
MVU	Marysvale, UT	BH[ZEN]	3	LB	38° 30.22'	112° 12.74'	2240	*	*	Digital	Sandia
NAI	North Antelope Island, UT	EN[ZEN]	3	UU	41° 00.97'	112° 13.68'	1472	EpiSensor	Etna2	Digital	ANSS
NAIU	North Antelope Island, UT	EHZ	1	UU	41° 00.97'	112° 13.68'	1472	L4C	PSN	Analog	USGS
NLU	North Lily Mine, UT	EN[ZEN]	3	UU	39° 57.29'	112° 04.50'	2036	Episensor	Centaur	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
NMU	North Mineral Mountain, UT	EH[ZEN]	3	UU	38° 30.99'	112° 51.00'	1853	S13	PSN	Analog	Utah
NOQ	North Oquirrh Mountains, UT	EN[ZEN]	3	UU	40° 39.16'	112° 07.26'	1628	Titan	Centaur	Digital	ANSS
		HH[ZEN]	3					Trillium 120		Digital	USGS
NPI	North Pocatello, ID	EHZ	1	UU	42° 08.84'	112° 31.10'	1640	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
O20A	White River City, CO	BH[ZEN]	3	N4	40° 08.09'	108° 14.50'	1915	STS-2	Q330	Digital	NCF
OCP	Orem City Park, Orem, UT	EN[ZEN]	3	UU	40° 17.87'	111° 41.44'	1464	EpiSensor	Etna2	Digital	ANSS
OF2	Ogden Fire Station ° 2	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
	Ogden, UT										
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	EpiSensor	Etna2	Digital	ANSS
PCR	Park City Recreation Center, Park City, UT	EN[ZEN]	3	UU	40° 39.25'	111° 30.19'	2100	EpiSensor	Etna2	Digital	ANSS
PEUT	Pahvant Elementary School, Richfield, UT	EN[ZEN]	3	UU	38° 46.55'	112° 05.32'	1644	PA-23	SMART-24	Digital	Utah
PGA	Page, AZ	EHZ	1	AR	36° 54.34'	111° 16.86'	1272	*	*	Analog	NAU
PGC	Pleasant Grove Creek, UT	EN[ZEN]	3	UU	40° 22.71'	111° 42.62'	1707	EpiSensor	Etna2	Digital	ANSS
PIO	Pioche, NV	HH[ZEN]	3	NN	37° 56.83'	114° 29.48'	1887	Trillium 120	Q330	Digital	UNR
PKCU	Pink Cliffs, UT	HH[ZEN]	3	UU	37° 26.63'	112° 18.66'	2834	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
PNSU	Preston Nutter Ranch, Sunnyside, UT	HH[ZEN]	3	UU	39° 37.67'	110° 14.74'	2743	Trillium 240	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
PRN	Pahroc, Range, NV	HH[ZEN]	3	NN	37° 24.40'	115° 03.05'	1402	Trillium 120	ANSS-130	Digital	UNR
PSUT	Pine Spring, UT	HH[ZEN]	3	UU	38° 32.02'	113° 51.28'	1999	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
PTI	Pocatello, ID	HH[ZEN]	3	IE	42° 52.20'	112° 22.21'	1670	*	*	Digital	INL
PTU	Portage, UT	EHZ	1	UU	41° 55.76'	112° 19.48'	2192	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
PV05	E. Island Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 08.87'	108° 50.08'	2142	*	*	Digital	USBR
PV11	Davis Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 17.96'	108° 52.33'	1881	*	*	Digital	USBR
PV15	Pinto Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 20.51'	108° 28.66'	2280	*	*	Digital	USBR
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, Lindon, UT	HN[ZEN]	3	UU	40° 20.83'	111° 29.63'	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLMT	Earthquake Lake, MT	EHZ	1	MB	44° 49.84'	111° 25.80'	2064	*	*	Analog	MBMT
QMDS	S 2600 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.74'	111° 48.97'	1405	Gsig-AC63	Gsig-GMS	Digital	ANSS
QNRL	E 500 N, Logan, UT	HN[ZEN]	3	UU	40° 44.44'	111° 49.49'	1407	Gsig-AC63	Gsig-GMS	Digital	ANSS
QOGD	1723 N 900 E, North Ogden, UT	HN[ZEN]	3	UU	41° 17.38'	111° 57.11'	1361	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPAY	N 300 E Payson, UT	HN[ZEN]	3	UU	40° 03.18'	111° 43.70'	1404	Gsig-AC63	Gsig-GMS	Digital	ANSS
QPML	S Whitesides St., Layton, UT	HN[ZEN]	3	UU	40° 03.47'	111° 57.23'	1334	Gsig-AC63	Gsig-GMS	Digital	ANSS
QRJG	N 1450 E, Provo, UT	HN[ZEN]	3	UU	40° 15.65'	111° 37.96'	1530	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSAR2	Saratoga Springs, UT	HN[ZEN]	3	UU	40° 20.17'	111° 55.43'	1420	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSPA	520 S, Spanish Fork, UT	HN[ZEN]	3	UU	40° 17.47'	111° 52.95'	1413	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSTV	S City Vistas Way, Kearns, UT	HN[ZEN]	3	UU	40° 40.25'	112° 02.18'	1416	Gsig-AC63	Gsig-GMS	Digital	ANSS
QSUN	1412 N 350 W, Sunset, UT	HN[ZEN]	3	UU	41° 08.04'	112° 01.97'	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QUGS	240 N Redwood Road, SLC, UT	HN[ZEN]	3	UU	40° 46.45'	111° 56.32'	1300	Gsig-AC63	Gsig-GMS	Digital	ANSS
R11B	Troy Canyon, Currant, NV	HH[ZEN]	3	NN	38° 20.93'	115° 35.12'	1756	STS-5A	Q330	Digital	UNR
RBU	Red Butte Canyon, UT	EHZ	1	UU	40° 46.85'	111° 48.50'	1676	L4C	Basalt	Digital	USGS
		EN[ZEN]	3					EpiSensor			
RCJ	Ross Creek, UT	EHZ	1	UU	40° 39.51'	111° 26.36'	2090	S13	PSN	Analog	Utah
RDMU	Red Mountain, UT	HH[ZEN]	3	UU	40° 34.25'	109° 34.17'	2087	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
REDW	Red-Top Meadows, WY	BH[ZEN]	3	IW	43° 21.74'	110° 51.18'	2322	3ESP	RT-130	Digital	ANSS
REUT	Washington Fields, Riverside Elementary School, UT	EN[ZEN]	3	UU	37° 05.86'	113° 31.16'	791	PA-23	SMART-24	Digital	Utah
RLMT	Red Lodge, MT	BH[12Z]	3	US	45° 07.33'	109° 16.04'	2086	STS-2	Q330	Digital	ANSS
ROA	Roan Cliffs, UT	EHZ	1	UU	39° 39.69'	110° 21.88'	2962	S13	PSN	Analog	Utah
RPF	Rose Park Fire Station, Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.52'	111° 55.22'	1287	Applied Mems	ANSS-130	Digital	ANSS
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SCS	Syracuse City Cemetery Shop Syracuse, UT	EN[ZEN]	3	UU	41° 05.73'	112° 02.81'	1321	EpiSensor	Etna2	Digital	ANSS
SCUT	Santa Clara, UT	EN[ZEN]	3	UU	37° 07.69'	113° 38.68'	837	EpiSensor	Etna2	Digital	Utah
SCY	Salem City Yard, Salem, UT	EN[ZEN]	3	UU	40° 03.47'	111° 41.14'	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	EHZ	1	UU	39° 10.94'	111° 38.68'	2357	18300	PSN	Analog	USGS
SHP	Sheep Range, NV	HH[ZEN]	3	NN	36° 30.33'	115° 09.61'	1590	Trillium 120	ANSS-130	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	EN[ZEN]	3	UU	40° 33.37'	111° 56.34'	1356	EpiSensor	Obsidian	Digital	ANSS
SKII	Z, ID	HH[ZEN]	3	IE	43° 19.21'	111° 55.79'	2082	*	*	Digital	INL
SMAZ	Slide Mountain, AZ	EHZ	1	AR	36° 19.29'	113° 10.14'	2200	*	*	Analog	NAU
SNO	Snow College, UT	EHZ	1	UU	39° 19.18'	111° 32.33'	2503	Ranger	PSN	Analog	Utah
SNOW	Snowking Mountain, WY	BH[ZEN]	3	IW	43° 27.75'	110° 45.31'	2390	3ESP	RT-130	Digital	ANSS
SNUT	Stansbury North, UT	EHZ	1	UU	40° 53.10'	112° 30.52'	1652	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SPR2	Wildlife Resource Center Springville, UT	EN[ZEN]	3	UU	40° 10.95'	111° 36.69'	1382	EpiSensor	Etna2	Digital	ANSS
SPR3	Spring Creek 3, NV	HH[ZEN]	3	NN	38° 59.93'	114° 19.88'	2815	Trillium 120	RT-130	Digital	UNR
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	EN[ZEN]	3	UU	40° 38.97'	112° 18.95'	1293	EpiSensor	Etna2	Digital	ANSS
SPU	South Promontory Point, UT	EN[ZEN]	3	UU	41° 18.52'	112° 26.95'	2086	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
SRU	San Rafael Swell, UT	EHZ	1	UU	39° 06.65'	110° 31.43'	1804	S13	PSN	Analog	Utah, ANSS, IRIS
		HH[ZEN]	3					STS-2	ANSS-130	Digital	
		EN[ZEN]	3					EpiSensor			
SSC	Sandy Senior Center Sandy, UT	EN[ZEN]	3	UU	40° 34.89'	111° 51.35'	1414	EpiSensor	Etna2	Digital	ANSS
SUU	Santaquin Canyon, UT	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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
TCU	Toone Canyon, UT	EN[ZEN]	3	UU	41° 07.04'	111° 24.47'	2269	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
TCUT	Toone Canyon, UT	EHZ	1	UU	41° 07.07'	111° 24.51'	2320	L4C	PSN	Analog	USGS
TMI	Taylor Mountain, ID	EHZ	1	IE	43° 18.30'	111° 55.08'	2179	*	*	Digital	INL
TMU	Trail Mountain, UT	HH[ZEN]	3	UU	39° 17.79'	111° 12.49'	2731	Observer	ANSS-130	Digital	Utah, ANSS
		EN[ZEN]	3					EpiSensor			
TPAW	Teton Pass, WY	BH[ZEN]	3	IW	43° 29.41'	110° 57.04'	2512	3ESP	RT-130	Digital	ANSS
TPH	Tonopah, NV	BH[ZEN]	3	LB	38° 04.50'	117° 13.35'	1883	3ESP	Q330	Digital	Sandia
TPMT	Teepee Creek, MT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	BH[ZEN]	3	US	36° 56.93'	116° 14.97'	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	EN[ZEN]	3	UU	40° 25.81'	111° 54.13'	1383	EpiSensor	Etna2	Digital	ANSS
TRS	Tooele County Radio Shop, Tooele, UT	EN[ZEN]	3	UU	40° 30.83'	112° 18.63'	1568	EpiSensor	Etna2	Digital	ANSS
U15A	North Rim, AZ	BH[ZEN]	3	AE	36° 25.80'	112° 17.40'	2489	Trillium 240	Q330	Digital	AZGS
UHP	Utah Highway Patrol Farmington, UT	EN[ZEN]	3	UU	40° 59.47'	111° 53.88'	1295	EpiSensor	Etna2	Digital	ANSS
UTH	Uintah Town Hall, Uintah, UT	EN[ZEN]	3	UU	41° 08.65'	111° 55.52'	1389	EpiSensor	Etna2	Digital	ANSS
UUE	University of Utah EMCB Bldg. Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.09'	111° 50.77'	1449	EpiSensor	Etna2	Digital	ANSS
V12A	Nelson, NV	HH[ZEN]	3	NN	35° 44.00'	114° 51.07'	1098	Trillium 120	Q330	Digital	UNR
VEC	Valley Emergency Communications Center West Valley City, UT	EN[ZEN]	3	UU	40° 39.21'	112° 01.95'	1480	EpiSensor	Basalt	Digital	ANSS
VNL	Vernal, UT	EN[ZEN]	3	UU	40° 27.48'	109° 32.89'	1648	EpiSensor	Obsidian	Digital	Utah
VRUT	Veyo Road, Veyo, UT	HH[ZEN]	3	UU	37° 27.71'	113° 51.41'	1874	Trillium 120	SMART-24	Digital	Utah
		EN[ZEN]	3					PA-23			
W13A	Hualapai Mountain Park, Kingman, AZ	BH[ZEN]	3	AE	35° 06.00'	113° 53.40'	1988	3T	Q330	Digital	AZGS
WBC	Weber Canyon, UT	EN[ZEN]	3	UU	41° 08.38'	111° 54.05'	1602	EpiSensor	Etna2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	EN[ZEN]	3	UU	41° 38.37'	111° 55.94'	1387	EpiSensor	Etna2	Digital	ANSS
WCO	Washington City Office Building, UT	EN[ZEN]	3	UU	37° 07.91'	113° 30.56'	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	EHZ	1	UU	38° 57.88'	112° 05.44'	2673	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WDO	Saint George, Washington County School District Office, UT	EN[ZEN]	3	UU	37° 06.46'	113° 35.19'	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.97'	111° 51.26'	1341	EpiSensor	Etna2	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
WHS	West High School, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.51'	111° 53.93'	1301	EpiSensor	Etna2	Digital	ANSS
WMUT	West Mountain, UT	EHZ	1	UU	40° 04.60'	111° 50.00'	1981	L4C	PSN	Analog	USGS
		EHZ	1						EpiSensor	Basalt	
		EN[ZEN]	3								
WPUT	Wasatch Plateau, UT	HH[ZEN]	3	UU	38° 59.85'	111° 21.53'	2618	Trillium 120	Taurus	Digital	Utah
WRP	Water Reclamation Plant Salt Lake City, UT	EN[ZEN]	3	UU	40° 48.82'	111° 55.87'	1286	EpiSensor	Etna2	Digital	ANSS
WTNK	7433 Soaring Heights, NV	HH[ZEN]	3	NN	36° 11.50'	115° 00.64'	676	3ESP	ANSS-130	Digital	UNR
WTU	Western Traverse Mountains, UT	EH[ZEN]	3	UU	40° 27.29'	111° 57.21'	1552	S13	PSN	Analog	USGS
		EN[ZEN]	3					EpiSensor	Etna2	Digital	
WUAZ	Wupatki, AZ	BH[ZEN]	3	US	35° 31.01'	111° 22.43'	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	EHZ	1	UU	41° 36.61'	111° 57.55'	1828	L4C	PSN	Analog	USGS
YDC	Denny Creek, MT	EHZ	1	WY	44° 42.51'	111° 14.60'	2025	L4C	PSN	Analog	USGS
YDD	Grant Junction, Yellowstone, WY	HH[ZEN]	3	WY	44° 24.00'	110° 34.80'	2400	STS-2	Q330	Digital	USGS
		EN[ZEN]	3					Episensor			
YEE	East Entrance (YNP), WY	HH[ZEN]	3	WY	44° 29.12'	109° 53.81'	2270	Compact	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	PSN	Analog	USGS
		HH[ZEN]	3					Compact	ANSS-130	Digital	
		EN[ZEN]	3								
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3								
YHL	Hebgen Lake, MT	HH[ZEN]	3	WY	44° 51.05'	111° 10.98'	2691	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YHR	Hawk's Rest, WY	HH[ZEN]	3	WY	44° 06.36'	110° 04.90'	2976	Trillium 120	Q330	Digital	USGS
YJC	Joseph's Coat (YNP), WY	EH[ZEN]	3	WY	44° 45.33'	110° 20.95'	2684	S13	PSN	Analog	USGS
YLA	Lake Butte (YNP), WY	EHZ	1	WY	44° 30.76'	110° 16.12'	2580	L4C	PSN	Analog	USGS
YLT	Little Thumb Creek (YNP), WY	EHZ	1	WY	44° 26.25'	110° 35.28'	2439	L4C	PSN	Analog	USGS
YMC	Maple Creek (YNP), WY	EH[ZEN]	3	WY	44° 45.53'	111° 00.41'	2073	S13	PSN	Analog	USGS
YML	Mary Lake (YNP), WY	EH[ZEN]	3	WY	44° 36.20'	110° 38.63'	2653	L4C	PSN	Analog	USGS
YMP	Mirror Plateau (YNP), WY	EHZ	1	WY	44° 44.38'	110° 09.40'	2774	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3								
YMR	Madison River (YNP), WY	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YMS	Mount Sheridan (YNP), WY	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	HH[ZEN]	3	WY	45° 00.46'	110° 00.48'	2343	Compact	ANSS-130	Digital	USGS
YNM	Norris Museum (YNP), WY	HH[ZEN]	3	WY	44° 43.59'	110° 42.22'	2311	Trillium 240	Q330	Digital	USGS
YNR	Norris Junction (YNP), WY	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YPC	Pelican Cone (YNP), WY	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	PSN	Analog	USGS
YPK	Parker Peak (YNP), WY	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	PSN	Analog	USGS
YPM	Purple Mountain (YNP), WY	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	PSN	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	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
		EN[ZEN]	3					EpiSensor			

* Station operated by another agency and recorded as part of University of Utah regional seismic network
Network Statistics: 997 data channels from 344 stations were being recorded at the end of this report period

EXPLANATION OF TABLE

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

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

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

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

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

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

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

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

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

Number of Channels: Total number of waveform channels recorded.

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

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

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

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

Elevation: Sensor altitude in meters above sea level.

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

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

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

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

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

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

NETWORK CHANGES DURING OCTOBER 1–DECEMBER 31, 2020

October 12–14	Installations FSB[1–3], DN[12Z], EN[12Z], and HH[12Z]
December 2	Installation MHS2 EN[ENZ]