

EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

April 1 – June 30, 2018

Prepared by the University of Utah Seismograph Stations and funded by
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September 12, 2018

Foreword and Data Explanation

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

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

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

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

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

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

EARTHQUAKE ACTIVITY IN THE UTAH REGION April 1 – June 30, 2018

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During the three-month period April 1, 2018, through June 30, 2018, the University of Utah Seismograph Stations (UUSS) located 221 earthquakes within the Utah region (Figure 1). The total includes three earthquakes in the magnitude 3 range, and 17 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. Three earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2018 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

Online Information

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

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

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

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

Earthquakes of Magnitude 3.0 or Larger

M _L 3.5	April 3	14:26 MST	2 mi WNW of Loa, UT
M _L 3.0	May 3	20:49 MST	13 mi SW of Santa Clara, UT
M _L 3.1	June 19	01:15 MST	10 mi SSE of Beaver, UT

Other Notable Seismicity

During the report period, there was one notable spatial cluster 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 17 earthquakes ($0.9 \leq M \leq 2.9$) occurred about 23 mi SSW of Malad City, ID. Nine of these events, including a magnitude 2.9 shock, occurred between June 11 and June 14.

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 25 located shocks ($0.6 \leq M \leq 2.8$) that occurred during the report period.

Seismicity of the Utah Region April 1, 2018 - June 30, 2018

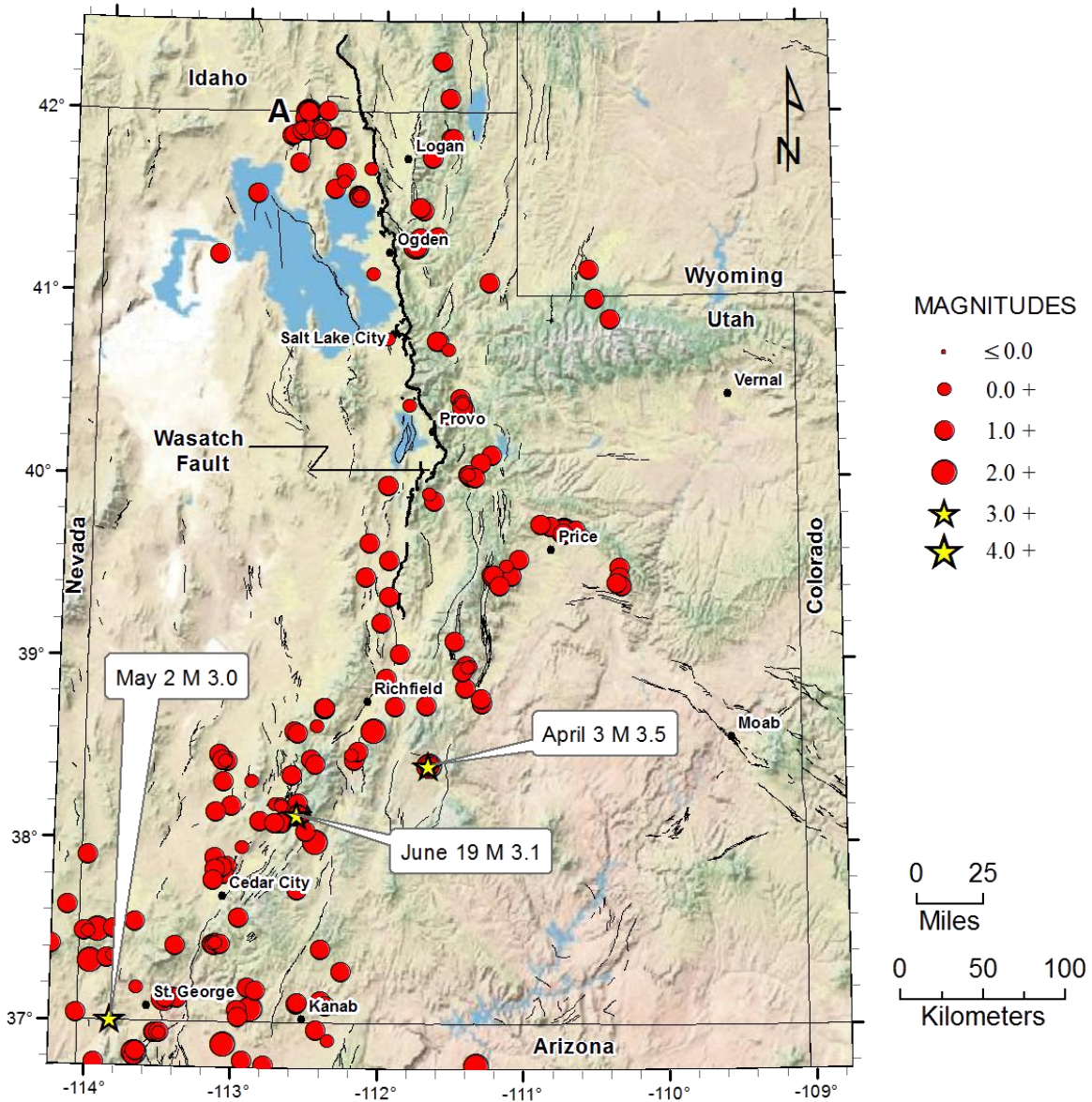


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey (black lines). The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local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

Table 1

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

January 1, 2018 to December 31, 2018

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 8	15:38 MST 22:38 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (III) at Richfield, UT.	38° 27.13'	112° 28.77'	M _L 3.5
February 28	07:11 MST 14:11 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (III) Panguitch, Alton, UT and (II) at Bryce Canyon, Paragonah, UT.	112° 31.84'	112° 31.84'	M _L 3.6
March 21 March 22	18:27 MDT 00:27 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (III) at Loa, UT.	38° 25.04'	111° 39.36'	M _L 3.0
March 22	07:21 MDT 13:21 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (IV) at Teasdale, UT (III) at Loa, UT, and (II) at Torrey, Richfield, UT.	38° 25.23'	111° 39.42'	M _L 3.2
April 3	14:26 MDT 20:26 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (III) at Loa, Teasdale, Salina, UT and (II) at Torrey, UT.	38° 25.02'	111° 39.67'	M _L 3.5
May 2 May 3	20:49 MDT 02:49 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (II) at Santa Clara, St. George, Washington, UT.	37° 00.37'	113° 49.77'	M _L 3.0
June 19	01:15 MDT 07:15 UTC	Utah. <i>CIIM. ShakeMap.</i> Felt (III) at Salt Lake City, UT and (II) at West Jordan, Kaysville, UT.	38° 08.52'	112° 34.25'	M _L 3.1

† 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_L) or 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 June 30, 2018

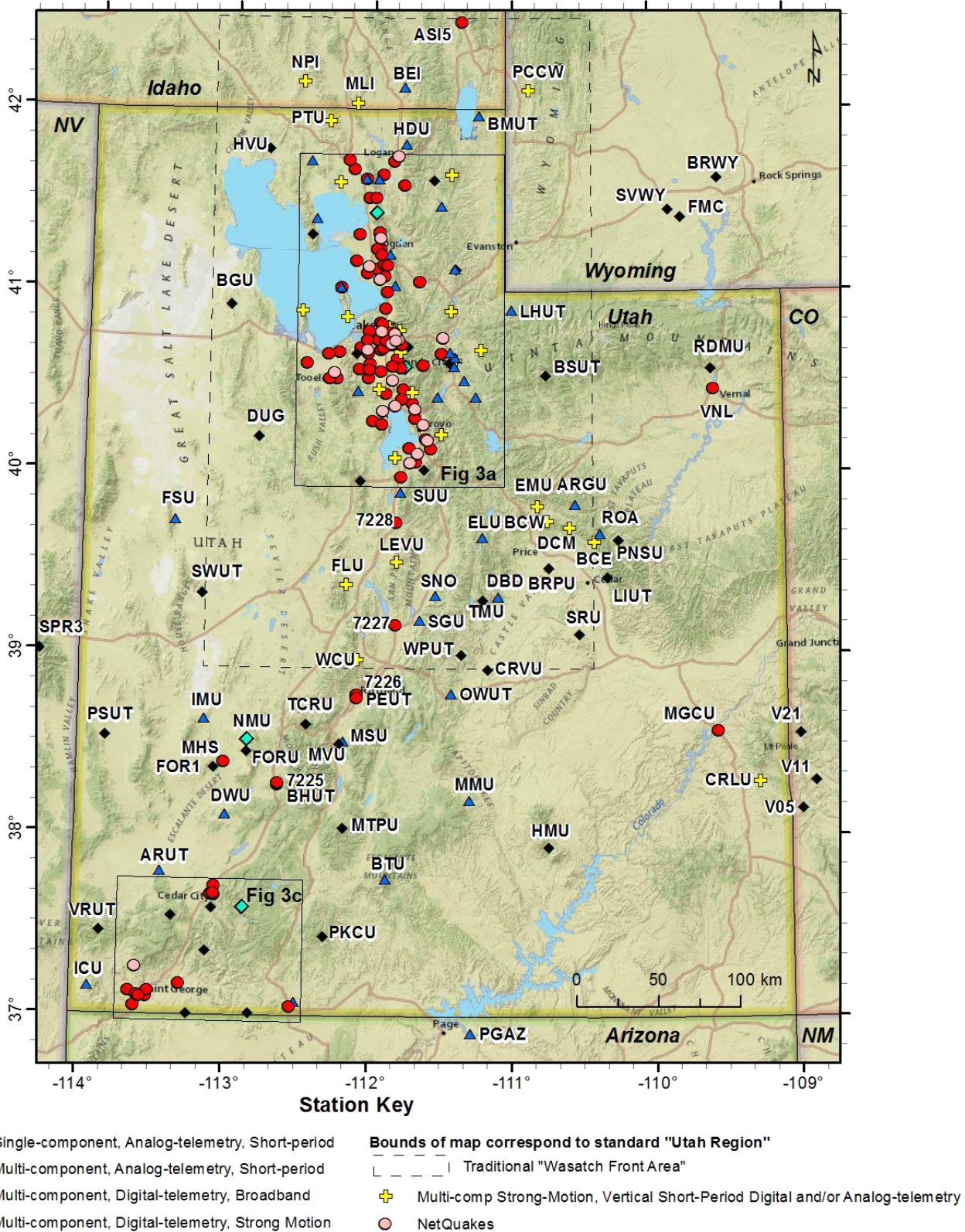


Figure 2

Utah Urban Seismic Network (June 30, 2018)

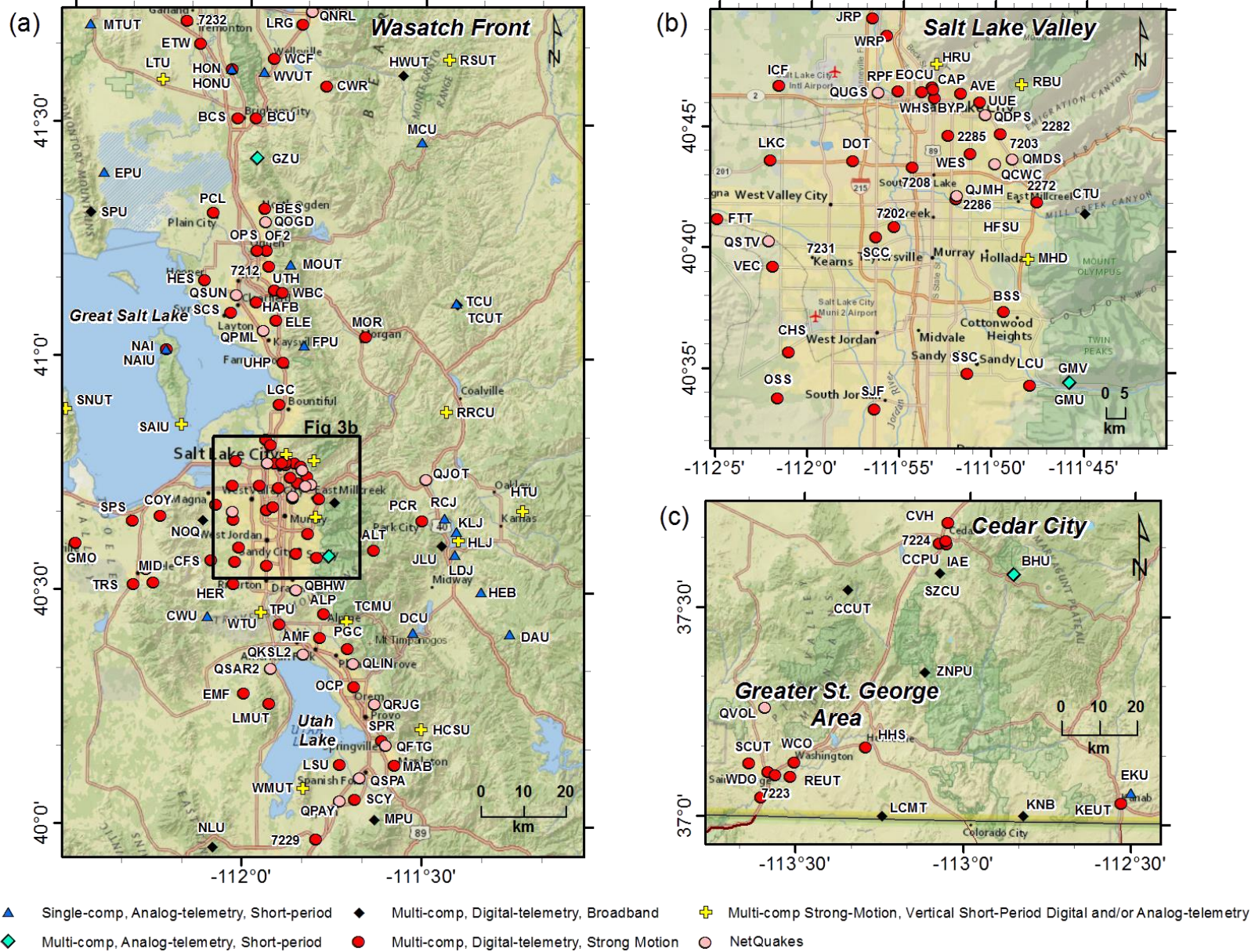


Figure 3

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180401	09:55:10.83	41° 06.61'	112° 05.16'	7.7*	0.8	9	85	16	0.16
180401	11:02:20.55	41° 53.55'	112° 36.41'	6.0*	1.1	12	210	19	0.10
180401	11:50:18.56	41° 54.33'	112° 37.24'	1.2*	0.9	9	220	19	0.15
180401	16:13:20.37	41° 53.72'	112° 37.20'	1.4*	1.0	14	215	18	0.25
180401	22:41:56.02	40° 52.05'	110° 22.72'	-0.2*	1.9	14	169	49	0.14
180402	00:43:41.61	39° 27.95'	111° 12.50'	-2.8*	1.1W	15	71	19	0.13
180402	00:56:52.57	37° 07.34'	113° 27.31'	11.4	2.3W	17	84	22	0.18
180402	06:19:57.38	37° 07.60'	113° 26.94'	12.6	1.2	7	148	22	0.06
180402	22:53:53.29	40° 44.65'	111° 37.36'	7.8	1.1W	23	103	12	0.21
180402	22:57:40.86	40° 44.60'	111° 36.60'	11.3	1.2W	23	81	13	0.13
180403	01:24:27.24	38° 24.81'	111° 39.17'	6.7*	2.2W	20	72	39	0.13
180403	05:37:19.61	39° 44.68'	110° 52.62'	3.0	1.6	6	238	9	0.19
180403	18:14:26.87	37° 57.35'	112° 56.70'	6.6*	0.7	8	125	17	0.19
180403	20:26:38.72	38° 25.02'	111° 39.67'	8.1*	3.5W	35	72	40	0.24
180403	20:31:12.39	38° 25.01'	111° 39.16'	3.7*	1.8W	21	72	40	0.12
180403	21:28:41.00	39° 26.92'	112° 06.87'	5.0	1.7W	20	50	9	0.18
180404	02:49:54.52	40° 22.26'	111° 25.52'	2.6	1.4W	17	77	10	0.19
180405	09:10:48.94	37° 37.82'	114° 08.44'	2.9*	1.1	13	91	31	0.11
180406	04:45:17.61	38° 29.55'	112° 08.94'	2.5	1.3W	18	77	3	0.16
180406	15:04:48.30	39° 24.13'	110° 18.42'	-2.5	1.2	6	200	3	0.03
180406	20:52:36.05	39° 27.92'	111° 13.55'	4.7*	1.6W	23	37	19	0.12
180406	22:10:01.47	41° 15.62'	111° 46.47'	6.2*	2.0W	24	73	27	0.15
180406	22:26:48.01	37° 59.44'	112° 26.62'	7.0*	2.3W	15	75	23	0.21
180407	02:34:43.55	41° 15.47'	111° 46.40'	4.8*	1.4W	19	72	26	0.14
180407	08:42:53.33	39° 05.96'	111° 29.01'	2.6*	0.9W	11	133	17	0.09
180407	11:04:18.34	38° 57.87'	111° 24.08'	3.0*	1.9	7	86	21	0.06
180408	08:54:19.48	38° 36.31'	112° 02.73'	9.7	2.0W	19	84	15	0.16
180408	14:17:58.52	41° 36.77'	112° 18.47'	0.0	0.7	9	151	6	0.11
180409	02:37:17.66	37° 19.42'	113° 58.45'	6.9*	2.8W	18	84	19	0.13
180411	04:36:22.48	39° 42.56'	110° 37.90'	-2.1	1.7	12	83	4	0.09
180411	06:50:53.47	41° 51.14'	112° 22.47'	3.0	1.0	17	86	10	0.17
180411	17:57:19.78	41° 28.46'	111° 45.02'	9.2*	1.0W	15	103	20	0.10
180412	08:44:40.02	39° 20.56'	111° 56.54'	5.5*	1.4	11	169	20	0.14
180414	01:33:35.02	41° 51.11'	112° 22.07'	2.0	1.2	14	89	9	0.12
180414	11:14:17.01	41° 50.81'	112° 21.94'	2.4	1.0	8	98	10	0.06
180415	11:13:57.18	37° 25.99'	113° 07.24'	10.6	0.6	16	108	18	0.09
180415	15:50:24.98	37° 10.49'	112° 50.42'	18.4	1.4	9	199	18	0.11
180417	22:01:59.99	37° 51.24'	113° 03.14'	8.4*	1.4	10	110	28	0.08
180418	08:49:51.33	39° 43.87'	110° 48.62'	-3.4	1.6	11	104	6	0.16
180418	12:27:48.99	41° 44.75'	111° 39.50'	12.1	1.0	13	210	17	0.10
180419	19:40:50.09	37° 04.12'	112° 57.71'	15.4	1.4W	6	142	14	0.03
180420	02:01:22.39	38° 11.76'	112° 41.00'	2.9	0.9	12	170	10	0.07
180420	02:25:21.90	38° 11.00'	112° 40.09'	3.0*	0.8	14	112	30	0.17
180420	21:13:18.97	38° 26.64'	112° 28.61'	10.3	1.8W	28	43	19	0.11
180421	18:09:58.91	36° 46.02'	112° 46.42'	16.9	1.4W	11	95	28	0.13

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180421	19:53:24.41	37° 01.58'	112° 57.50'	18.7	0.9W	11	130	12	0.12
180422	01:58:32.20	40° 23.38'	111° 48.65'	9.4	0.9W	15	187	9	0.11
180422	02:57:28.78	37° 25.63'	113° 05.22'	6.8*	0.9	13	83	19	0.08
180422	23:52:18.06	36° 56.14'	113° 29.56'	11.0	0.6	7	233	18	0.09
180423	03:34:42.05	36° 56.24'	113° 29.52'	11.0	1.1	9	221	18	0.10
180423	19:23:02.53	37° 43.82'	112° 33.70'	6.3*	1.4	21	64	39	0.23
180423	21:16:58.98	41° 51.36'	111° 31.67'	4.7*	1.7W	17	224	28	0.17
180424	03:41:41.99	38° 06.11'	112° 49.57'	6.8*	1.7W	24	51	15	0.20
180424	21:58:50.09	41° 41.11'	112° 06.31'	0.2	0.8	7	133	9	0.20
180424	23:39:24.39	38° 28.02'	113° 06.86'	1.1*	1.1	7	107	11	0.20
180425	04:54:25.25	38° 26.71'	112° 28.68'	9.5	1.4W	21	68	18	0.10
180425	06:58:00.47	38° 56.21'	111° 25.79'	3.0*	1.0W	9	96	17	0.14
180425	07:45:02.19	39° 30.76'	111° 07.36'	1.6*	0.8W	14	94	16	0.12
180425	12:25:55.37	41° 53.88'	112° 28.58'	6.2*	1.0	7	110	13	0.03
180425	12:25:55.47	41° 54.04'	112° 28.82'	4.7*	0.9	10	112	13	0.11
180425	12:58:36.87	38° 43.70'	112° 23.39'	5.9*	1.4W	10	90	14	0.06
180425	13:02:54.71	38° 43.56'	112° 23.35'	5.7*	1.7W	14	77	14	0.18
180425	13:03:14.25	38° 43.76'	112° 23.55'	4.0*	1.8	8	164	14	0.05
180425	13:37:03.91	38° 43.56'	112° 23.21'	7.7	1.7W	14	77	14	0.12
180425	18:00:06.40	38° 43.54'	112° 23.51'	7.2	1.9W	21	76	14	0.15
180425	18:06:07.33	38° 43.78'	112° 23.28'	6.8*	1.6W	14	77	14	0.16
180425	22:50:36.46	39° 32.39'	111° 56.93'	5.8*	1.1	8	152	12	0.09
180426	21:12:44.85	40° 00.70'	111° 23.32'	0.4*	0.8	18	63	21	0.14
180426	21:33:16.92	39° 59.75'	111° 20.51'	3.7*	1.0	10	214	25	0.23
180426	23:19:19.34	40° 00.80'	111° 22.97'	4.2*	1.3	21	71	21	0.15
180427	04:28:46.09	37° 29.78'	113° 55.42'	2.9	2.3W	16	123	7	0.11
180427	16:14:11.80	37° 50.95'	113° 05.18'	11.8*	1.2	16	102	28	0.22
180428	07:05:58.83	40° 00.83'	111° 23.69'	6.3*	1.5W	10	135	20	0.05
180428	07:06:13.78	40° 00.11'	111° 22.60'	2.6*	1.5W	8	239	22	0.08
180430	21:06:40.60	41° 51.83'	112° 41.38'	1.5*	1.1W	11	166	12	0.08
180502	03:38:29.07	39° 54.26'	111° 40.07'	0.2*	0.9	9	165	11	0.26
180502	17:44:03.82	41° 43.07'	112° 37.64'	3.9*	1.3	15	99	14	0.17
180502	19:40:04.41	37° 07.77'	113° 22.25'	-3.5	1.7	10	109	8	0.12
180503	02:49:58.67	37° 00.37'	113° 49.77'	13.3	3.0W	23	105	18	0.24
180503	09:31:41.26	38° 50.77'	111° 24.55'	13.7	1.0W	10	81	7	0.07
180504	12:19:05.24	38° 21.38'	112° 36.49'	3.2*	1.5W	13	98	25	0.06
180504	12:25:45.18	38° 21.44'	112° 36.49'	3.4*	1.2W	11	98	25	0.08
180506	05:32:10.80	39° 52.27'	111° 38.24'	0.9*	1.0	14	106	13	0.17
180506	20:01:21.79	39° 37.99'	112° 05.37'	3.6*	1.0	8	121	27	0.18
180507	05:20:46.92	38° 44.38'	111° 53.85'	2.8*	1.7W	15	66	17	0.20
180510	00:03:06.86	36° 46.41'	111° 19.36'	15.0	2.4W	13	161	19	0.19
180510	17:40:04.36	39° 40.59'	110° 34.49'	-2.5	0.6	7	97	2	0.07
180511	23:43:58.65	41° 34.52'	112° 21.94'	5.9	1.2	10	113	10	0.10
180512	23:49:45.11	39° 11.90'	111° 59.77'	9.5*	1.5	12	111	25	0.15
180515	12:06:03.27	40° 19.32'	111° 31.95'	0.3*	0.8	22	99	13	0.15

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180516	20:29:07.03	39° 27.61'	111° 05.09'	3.2*	1.7	8	122	16	0.13
180517	05:28:11.25	37° 32.62'	113° 40.41'	6.6*	1.5W	10	94	19	0.10
180517	19:10:18.96	38° 26.02'	113° 04.32'	7.8	0.8	8	114	7	0.09
180518	03:28:40.17	39° 27.38'	111° 12.81'	4.0*	1.1W	10	184	18	0.04
180518	09:15:13.13	37° 34.43'	112° 57.89'	14.6	1.4W	20	60	11	0.17
180519	03:37:06.91	39° 26.97'	110° 19.22'	3.5*	1.7	8	176	20	0.15
180519	10:55:52.25	37° 11.32'	112° 53.63'	19.2	1.7W	16	77	20	0.14
180519	21:56:39.94	37° 08.10'	113° 24.45'	15.8	1.9W	21	122	9	0.14
180520	00:06:43.65	37° 10.82'	113° 39.10'	16.3	0.8	14	90	6	0.14
180520	14:38:43.70	38° 47.19'	111° 17.90'	1.8*	1.1	13	118	11	0.21
180520	22:12:40.77	42° 16.46'	111° 35.78'	6.6*	1.7W	15	126	29	0.22
180521	17:52:01.84	37° 06.48'	112° 33.12'	21.7	1.4W	8	98	6	0.04
180521	21:20:07.40	38° 53.71'	111° 57.49'	11.6	1.1	7	99	14	0.07
180522	14:34:29.06	36° 47.22'	112° 55.43'	9.1*	1.6W	13	188	27	0.16
180523	07:14:45.35	38° 11.30'	113° 01.76'	5.2	1.1	9	182	10	0.06
180523	13:05:27.79	37° 17.19'	112° 15.20'	17.5	1.6W	13	125	18	0.10
180524	09:47:27.63	41° 56.75'	112° 34.76'	-2.2*	1.8W	19	150	21	0.17
180524	14:02:40.98	38° 12.25'	112° 33.91'	4.1*	1.6W	14	74	38	0.19
180524	16:05:34.89	39° 57.06'	111° 57.51'	7.7	1.1W	9	106	10	0.07
180524	16:18:40.84	39° 57.23'	111° 57.62'	7.9	1.0W	8	107	10	0.06
180524	21:20:47.52	41° 51.42'	112° 22.44'	9.8	1.2	15	86	9	0.17
180525	01:37:41.94	38° 35.20'	112° 34.69'	1.1*	1.3W	14	109	12	0.22
180525	03:15:29.82	37° 04.32'	112° 52.13'	8.2	2.3W	21	108	7	0.18
180525	13:15:51.62	37° 25.53'	113° 08.21'	10.7	1.7W	16	55	19	0.11
180525	14:01:40.52	37° 26.00'	113° 07.11'	9.6	1.3W	14	79	18	0.07
180525	14:32:05.31	37° 25.30'	113° 07.72'	1.8*	1.3W	13	95	20	0.12
180525	17:07:16.47	41° 32.85'	112° 55.72'	0.4*	1.9W	15	199	29	0.21
180525	23:52:18.06	37° 25.59'	113° 07.50'	1.7*	1.6	9	114	19	0.06
180526	01:17:37.80	40° 58.63'	110° 29.37'	9.9*	1.7W	17	105	44	0.18
180527	04:24:21.99	37° 28.94'	113° 59.44'	10.5	0.8	9	122	12	0.08
180527	06:19:55.05	41° 27.51'	111° 43.35'	10.9	1.5W	19	78	18	0.13
180527	11:33:37.57	38° 26.64'	112° 10.78'	0.5	1.9W	25	51	7	0.20
180527	14:29:20.55	36° 56.39'	113° 31.06'	7.5	1.3	18	136	14	0.16
180527	14:38:29.94	36° 56.20'	113° 31.65'	6.2*	1.5	17	137	18	0.24
180527	19:02:37.86	41° 12.69'	113° 11.88'	8.3*	1.8W	17	225	35	0.10
180528	02:58:14.18	40° 41.89'	111° 31.98'	1.6	0.8W	21	81	5	0.15
180528	05:28:40.28	39° 33.15'	111° 01.85'	2.3*	1.4W	20	76	18	0.25
180528	20:53:49.87	38° 35.95'	112° 35.69'	3.6*	1.7W	17	116	13	0.11
180528	22:54:46.43	37° 24.66'	114° 14.59'	7.9*	1.1	15	85	35	0.12
180529	06:16:24.23	39° 30.19'	110° 19.06'	3.6	1.8W	18	161	9	0.21
180529	12:21:57.44	41° 57.43'	112° 36.05'	0.7*	1.1	13	160	22	0.18
180531	11:30:40.26	37° 24.97'	113° 23.49'	0.8*	1.7W	23	69	15	0.24
180531	13:30:32.53	36° 48.44'	113° 39.58'	7.6*	1.9W	14	115	27	0.19
180531	13:39:24.85	36° 50.11'	113° 38.77'	13.6*	1.3	14	112	41	0.07
180601	11:52:45.66	38° 25.24'	112° 26.97'	6.3*	1.0W	10	169	21	0.07

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180602	09:27:04.89	38° 45.41'	111° 17.53'	10.5	1.1	8	224	12	0.12
180602	11:55:36.49	36° 49.26'	113° 39.37'	14.6	2.7W	29	81	26	0.16
180603	04:53:10.53	36° 54.15'	112° 20.32'	19.0	0.9	7	211	24	0.15
180603	08:38:56.14	41° 08.54'	110° 31.86'	16.1*	1.7W	16	116	48	0.28
180603	14:36:20.19	38° 19.28'	112° 53.42'	7.9	0.8	16	79	14	0.14
180603	21:41:10.18	38° 05.70'	112° 40.45'	3.2*	1.0	12	115	28	0.11
180604	05:07:42.74	38° 05.56'	112° 43.70'	18.9	1.0	7	251	24	0.06
180604	05:13:24.82	38° 57.34'	111° 23.65'	5.9*	0.8W	5	155	20	0.07
180604	10:35:16.56	38° 57.72'	111° 22.52'	3.4*	0.8W	5	149	18	0.06
180605	07:01:38.09	40° 04.74'	111° 18.04'	10.5*	1.4	21	113	22	0.15
180605	20:33:00.58	38° 11.83'	112° 43.31'	0.1*	0.9	18	56	26	0.17
180605	22:50:59.95	38° 05.70'	112° 41.58'	7.5*	1.9W	28	40	21	0.18
180608	00:11:20.73	37° 30.17'	113° 49.18'	2.1*	1.3	9	108	40	0.08
180609	11:09:37.96	41° 39.81'	112° 17.65'	4.6	1.0W	15	108	9	0.18
180609	16:39:03.65	36° 57.72'	112° 25.46'	22.0	1.7W	11	158	14	0.12
180610	20:29:30.01	40° 23.74'	111° 26.05'	8.8	1.0	23	120	8	0.16
180610	21:35:49.80	36° 52.68'	113° 03.17'	23.4	2.4W	20	133	23	0.10
180611	09:17:04.51	41° 59.61'	112° 34.20'	6.0*	2.9W	33	150	18	0.18
180611	10:17:19.80	41° 59.81'	112° 34.38'	6.5*	1.1	12	160	17	0.11
180612	04:01:44.07	40° 07.42'	111° 13.36'	12.9*	1.5W	19	79	32	0.16
180612	05:03:53.73	38° 27.72'	113° 06.91'	6.5	1.2	9	109	11	0.21
180612	08:05:06.30	41° 59.94'	112° 34.33'	0.2*	1.4	10	160	17	0.17
180612	08:11:00.58	42° 00.11'	112° 34.71'	-3.0*	1.6W	14	152	23	0.27
180612	09:52:38.62	40° 23.06'	111° 26.01'	9.9	1.0	21	125	9	0.14
180612	10:09:17.19	39° 41.59'	110° 43.33'	-3.1	1.2	8	146	4	0.09
180612	11:55:47.20	40° 24.35'	111° 26.33'	9.2	0.4	11	190	8	0.15
180612	20:45:32.51	38° 02.95'	112° 30.69'	3.2*	1.8W	16	74	29	0.25
180613	02:56:21.79	37° 05.81'	112° 21.54'	18.6	1.8W	13	145	12	0.13
180613	10:44:18.12	41° 59.69'	112° 34.22'	5.6*	1.9W	17	158	17	0.13
180613	13:36:24.11	41° 59.67'	112° 33.65'	6.2*	1.7W	18	154	17	0.15
180613	23:13:24.56	37° 07.38'	112° 23.58'	16.0	1.8W	12	207	11	0.11
180614	00:49:27.59	37° 06.34'	112° 33.46'	21.1	1.6W	15	86	6	0.12
180614	04:18:21.70	39° 27.87'	111° 13.37'	-2.3*	1.6	11	100	19	0.19
180614	05:47:21.69	38° 44.95'	111° 40.85'	9.1*	1.5	14	121	23	0.16
180614	14:31:05.08	41° 59.67'	112° 34.22'	1.3*	1.4	10	158	18	0.14
180614	14:40:13.91	41° 59.60'	112° 33.81'	3.0*	1.6W	17	155	18	0.11
180614	23:36:12.16	41° 59.99'	112° 34.55'	5.6*	1.4	13	161	17	0.23
180615	08:41:49.67	41° 18.78'	111° 37.08'	7.6*	1.5W	21	110	19	0.16
180615	09:00:49.12	38° 08.61'	112° 33.88'	7.2*	2.4W	22	54	35	0.17
180616	21:00:32.32	39° 24.45'	111° 10.09'	1.8*	1.0	7	198	12	0.19
180617	01:54:35.55	41° 18.50'	111° 44.66'	9.6*	1.5W	24	77	26	0.18
180617	11:37:28.19	37° 02.35'	114° 03.67'	1.3*	1.1	7	148	17	0.14
180618	21:22:06.72	38° 25.81'	113° 03.47'	9.9	1.3	9	126	7	0.24
180619	00:17:29.95	41° 04.07'	111° 14.55'	22.6	1.8W	38	90	15	0.22
180619	07:15:35.07	38° 08.52'	112° 34.25'	9.6	3.1W	36	43	16	0.15

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180619	07:44:06.25	38° 08.48'	112° 33.76'	3.6*	1.0	22	69	35	0.15
180619	10:44:00.28	38° 08.60'	112° 33.93'	5.1*	1.5W	22	61	35	0.24
180620	00:13:12.97	38° 19.27'	113° 05.21'	5.4	1.8W	16	82	5	0.15
180620	02:46:35.71	38° 08.49'	112° 33.17'	9.2*	1.5W	20	70	34	0.25
180620	21:06:20.98	38° 08.72'	112° 33.64'	10.2*	2.0W	29	47	35	0.15
180620	22:06:02.99	38° 28.31'	112° 12.07'	0.3	0.6	11	91	4	0.14
180621	00:10:37.93	40° 45.00'	111° 58.19'	10.8	0.9	29	49	3	0.25
180621	17:34:33.87	38° 09.23'	113° 07.90'	3.3*	1.0	11	100	13	0.05
180621	19:48:01.03	39° 25.26'	110° 20.67'	-0.8	1.1	7	127	2	0.04
180622	09:37:22.99	40° 25.71'	111° 27.21'	14.1	1.7W	24	104	6	0.15
180622	11:10:20.73	37° 24.40'	112° 23.87'	1.5	1.4W	12	113	9	0.08
180623	03:54:26.21	37° 46.74'	113° 08.42'	6.7*	1.1W	11	230	21	0.12
180623	19:15:40.08	37° 54.01'	113° 08.13'	9.4*	1.3	8	286	30	0.10
180623	22:20:31.97	36° 46.08'	113° 55.85'	0.1*	1.6	13	142	42	0.15
180624	01:47:54.19	38° 37.79'	112° 26.55'	12.3	0.9	6	251	24	0.14
180624	07:22:57.61	37° 48.80'	113° 04.33'	1.9*	1.3	13	215	24	0.23
180624	13:54:34.60	39° 42.17'	110° 42.71'	-3.3	2.3W	18	65	4	0.13
180625	01:56:40.64	37° 20.60'	113° 51.61'	1.0*	1.0	16	85	13	0.21
180625	05:05:23.72	37° 54.29'	114° 00.60'	3.9*	1.5W	22	79	43	0.19
180625	07:33:41.24	38° 08.63'	112° 34.14'	7.6*	2.5W	31	43	36	0.13
180625	17:17:59.22	39° 01.84'	111° 51.84'	11.1	1.3W	12	105	21	0.13
180626	07:39:00.90	39° 42.51'	110° 42.76'	-2.5	2.8W	26	49	4	0.15
180626	23:28:13.77	41° 31.95'	112° 11.57'	4.0	1.4W	17	86	8	0.14
180626	23:39:03.59	41° 32.00'	112° 11.52'	2.6	1.4W	15	77	8	0.15
180627	00:09:57.04	41° 32.18'	112° 11.57'	2.3	0.7	14	123	8	0.11
180627	00:14:04.80	41° 31.74'	112° 11.44'	-0.4	1.1	18	87	8	0.12
180627	05:15:11.76	37° 25.59'	113° 07.80'	10.5	0.8W	6	165	8	0.10
180627	06:35:54.82	39° 41.39'	110° 42.93'	5.8	1.2	8	144	11	0.06
180627	06:50:51.43	41° 32.14'	112° 11.62'	2.4	0.8	11	124	8	0.10
180627	06:51:05.80	41° 32.35'	112° 11.66'	7.1	1.6W	31	74	7	0.22
180628	10:15:17.04	41° 52.30'	112° 40.52'	3.1*	1.1	7	162	13	0.04
180628	13:41:59.95	37° 50.21'	113° 07.83'	3.6*	1.1W	12	151	27	0.10
180628	16:03:43.58	39° 24.56'	110° 18.85'	-2.0	1.4W	10	196	2	0.05
180628	17:41:19.98	41° 53.70'	112° 34.19'	0.3*	1.0W	11	134	21	0.06
180628	23:17:46.69	41° 51.38'	111° 30.67'	9.9*	1.1	13	116	22	0.13
180629	01:31:49.50	38° 11.11'	112° 40.99'	2.9*	0.7	10	144	29	0.16
180629	10:27:24.05	37° 21.20'	113° 49.04'	1.5*	0.5	10	78	13	0.11
180629	20:09:32.60	38° 26.13'	113° 05.63'	5.3	1.0	9	113	7	0.06
180629	23:22:51.80	37° 29.33'	114° 01.17'	7.1*	1.2	17	57	15	0.17
180630	10:52:03.69	42° 04.58'	111° 31.89'	7.1*	1.2W	16	101	21	0.13
180630	15:53:47.17	42° 00.07'	112° 25.85'	3.6*	1.0	13	106	12	0.08

number of earthquakes = 221

* indicates poor depth control

W indicates Wood-Anderson data used for magnitude calculation

M indicates moment magnitude, M_w

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
June 30, 2018

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	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	K2	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	K2	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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
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	K2	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	Applied Mems	ANSS-130	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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
CFS	Copperton Fire Station, Copperton, UT	EN[ZEN]	3	UU	40° 33.96'	112° 05.61'	1654	EpiSensor	K2	Digital	ANSS
CHS	Copper Hills High School, West Jordan, UT	EN[ZEN]	3	UU	40° 35.68'	112° 01.03'	1460	Applied Mems	ANSS-130	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			
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
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	Applied Mems	ANSS-130	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	Applied Mems	ANSS-130	Digital	ANSS
EMU	Emma Park, UT	EH[ZEN]	3	UU	39° 48.84'	110° 48.92'	2268	S13	PSN	Analog	USGS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		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	Centaur	Digital	Utah
FOR4	Blundell West, UT	HH[ZEN]	3	UU	38° 29.92'	112° 53.79'	1657	Trillium 120	ANSS-130	Digital	Utah
FORU	South Mineral Mountains, UT	HH[ZEN]	3	UU	38° 27.53'	112° 51.68'	1840	40T	ANSS-130	Digital	Utah
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	Applied Mems	ANSS-130	Digital	ANSS
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
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
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	K2	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
HLJ	Hailstone, UT	EHZ	1	UU	40° 36.64'	111° 24.05'	1931	S13	PSN	Analog	Utah
		EN[ZEN]	3					FBA23	K2	Digital	
HMU	Henry Mountain, UT	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	Trillium 120	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
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								
HVVU	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	K2	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	K2	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	Applied Mems	K2	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		EN[ZEN]	3					EpiSensor			
LGC	Lakeside Golf Course Bountiful, UT	EN[ZEN]	3	UU	40° 54.04'	111° 54.51'	1292	EpiSensor	K2	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	K2	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	K2	Digital	ANSS
LTU	Little Mountain, UT	EHZ	1	UU	41° 35.51'	112° 14.83'	1585	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
MAB	Mapleton Ambulance Building Mapleton, UT	EN[ZEN]	3	UU	40° 07.85'	111° 34.67'	1440	EpiSensor	K2	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			
MHS	Milford High School, UT	EN[ZEN]	3	UU	38° 23.94'	113° 00.86'	1529	EpiSensor	Basalt	Digital	Utah
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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	Marysville, 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		ANSS-130	Digital
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	TA	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	K2	Digital	ANSS
OF2	Ogden Fire Station ° 2 Ogden, UT	EN[ZEN]	3	UU	41° 13.70'	111° 56.92'	1358	EpiSensor	K2	Digital	ANSS
OPS	Ogden Public Safety Building, Ogden, UT	EN[ZEN]	3	UU	41° 13.72'	111° 58.54'	1317	Applied Mems	ANSS-130	Digital	ANSS
OSS	Oquirrh Sub Station, UT	EN[ZEN]	3	UU	40° 33.77'	112° 01.61'	1503	Applied Mems	ANSS-130	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	K2	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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
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	BH[ZEN]	3	TA	38° 20.93'	115° 35.12'	1756	STS-2	Q330	Digital	NSF
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	K2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	EN[ZEN]	3	UU	41° 05.73'	112° 02.81'	1321	EpiSensor	K2	Digital	ANSS
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	

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		HH[ZEN]	3					STS-2	ANSS-130	Digital	Utah, ANSS, IRIS
		EN[ZEN]	3				EpiSensor				
SSC	Sandy Senior Center Sandy, UT	EN[ZEN]	3	UU	40° 34.89'	111° 51.35'	1414	EpiSensor	K2	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
TMI	Taylor Mountain, ID	EHZ	1	IE	43° 18.30'	111° 55.08'	2179	*	*	Digital	INL
TMU	Trail Mountain, UT	HH[ZEN]	3	UU	39° 17.79'	111° 12.49'	2731	Observer	ANSS-130	Digital	Utah, ANSS
		EN[ZEN]	3					EpiSensor			
TPAW	Teton Pass, WY	BH[ZEN]	3	IW	43° 29.41'	110° 57.04'	2512	3ESP	RT-130	Digital	ANSS
TPH	Tonopah, NV	BH[ZEN]	3	LB	38° 04.50'	117° 13.35'	1883	3ESP	Q330	Digital	Sandia
TPMT	Teepe Creek, MT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	BH[ZEN]	3	US	36° 56.93'	116° 14.97'	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	EN[ZEN]	3	UU	40° 25.81'	111° 54.13'	1383	EpiSensor	K2	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	K2	Digital	ANSS
UUE	University of Utah EMCB Bldg. Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.09'	111° 50.77'	1449	EpiSensor	K2	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	K2	Digital	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	K2	Digital	ANSS
WHS	West High School, SLC UT Salt Lake City, UT	EN[ZEN]	3	UU	40° 46.51'	111° 53.93'	1301	EpiSensor	K2	Digital	ANSS
WMUT	West Mountain, UT	EHZ	1	UU	40° 04.60'	111° 50.00'	1981	L4C	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
WPUT	Wasatch Plateau, UT	HH[ZEN]	3	UU	38° 59.85'	111° 21.53'	2618	Trillium 120	Taurus	Digital	Utah
WRP	Water Reclamation Plant Salt Lake City, UT	EN[ZEN]	3	UU	40° 48.82'	111° 55.87'	1286	Applied Mems	ANSS-130	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
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		
		EN[ZEN]	3					Titan			
YHH	Holmes Hill (YNP), WY	EHZ	1	WY	44° 47.30'	110° 51.03'	2717	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120	Q330	Digital	
		EN[ZEN]	3					Titan			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YHL	Hebgen Lake, MT	HH[ZEN]	3	WY	44° 51.05'	111° 10.98'	2691	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YHR	Hawk's Rest, WY	HH[ZEN]	3	WY	44° 06.36'	110° 04.90'	2976	Trillium 120	Q330	Digital	USGS
YJC	Joseph's Coat (YNP), WY	EH[ZEN]	3	WY	44° 45.33'	110° 20.95'	2684	S13	PSN	Analog	USGS
YLA	Lake Butte (YNP), WY	EHZ	1	WY	44° 30.76'	110° 16.12'	2580	L4C	PSN	Analog	USGS
YLT	Little Thumb Creek (YNP), WY	EHZ	1	WY	44° 26.25'	110° 35.28'	2439	L4C	PSN	Analog	USGS
YMC	Maple Creek (YNP), WY	EH[ZEN]	3	WY	44° 45.53'	111° 00.41'	2073	S13	PSN	Analog	USGS
YML	Mary Lake (YNP), WY	EH[ZEN]	3	WY	44° 36.20'	110° 38.63'	2653	L4C	PSN	Analog	USGS
YMP	Mirror Plateau (YNP), WY	EHZ	1	WY	44° 44.38'	110° 09.40'	2774	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan	Q330	Digital	
YMR	Madison River (YNP), WY	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YMS	Mount Sheridan (YNP), WY	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	HH[ZEN]	3	WY	45° 00.46'	110° 00.48'	2343	Compact	ANSS-130	Digital	USGS
YNM	Norris Museum (YNP), WY	HH[ZEN]	3	WY	44° 43.59'	110° 42.22'	2311	Trillium 240	Q330	Digital	USGS
YNR	Norris Junction (YNP), WY	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YPC	Pelican Cone (YNP), WY	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	PSN	Analog	USGS
YPK	Parker Peak (YNP), WY	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	PSN	Analog	USGS
YPM	Purple Mountain (YNP), WY	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	PSN	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan	Q330	Digital	
YSB	Soda Butte (YNP), WY	EHZ	1	WY	44° 53.04'	110° 09.06'	2072	L4C	PSN	Analog	USGS
YTP	The Promontory (YNP), WY	EHZ	1	WY	44° 23.51'	110° 17.10'	2384	L4	PSN	Analog	USGS
		HH[ZEN]	3					Trillium 120			
		EN[ZEN]	3					Titan	Q330	Digital	
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: 961 data channels from 311 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
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

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)

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 APRIL 1–JUNE 30, 2018

May 8 SVWY HH[ENZ] installed