EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

July 1 – September 30, 2018

Prepared by the University of Utah Seismograph Stations and funded by the U.S. Geological Survey (Cooperative Agreement No. G15AC00028) and by the State of Utah

December 21, 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
July 1 – September 30, 2018

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During the three-month period July 1, 2018, through September 30, 2018, the University of Utah Seismograph Stations (UUSS) located 302 earthquakes within the Utah region (Figure 1). The total includes three earthquakes in the magnitude 3 range, and 20 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. Two 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 3.1	July 11	07:21 MDT	11 mi SSW of Circleville, UT
M_L 3.8	September 11	23:54 MDT	16 mi WSW of Kanosh, UT
M_L 3.2	September 21	07:34 MDT	6 mi SW of Georgetown, ID

Other Notable Seismicity

During the report period, there were four 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 28 earthquakes ($1.0 \le M \le 3.2$) occurred about 8 mi SSW of Georgetown, ID. Twenty of these events, including a magnitude 3.2 shock, occurred on September 21.
B. A cluster of 13 earthquakes ($0.3 \le M \le 2.3$) occurred about 12 mi WSW of Corinne, UT. Six of these events, including a magnitude 2.3 shock, occurred on September 3.
C. A cluster of 10 earthquakes ($0.6 \le M \le 1.7$) occurred about 9 mi NNW of Lakeside, UT. Six of these events, including a magnitude 1.7 shock, occurred on August 10.
D. A cluster of 19 earthquakes ($1.0 \le M \le 3.8$) occurred about 17 mi WSW of Kanosh, UT. Eleven of these events, including a magnitude 3.8 shock, occurred on September 12.

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 31 located shocks ($1.0 \le M \le 2.3$) that occurred during the report period.

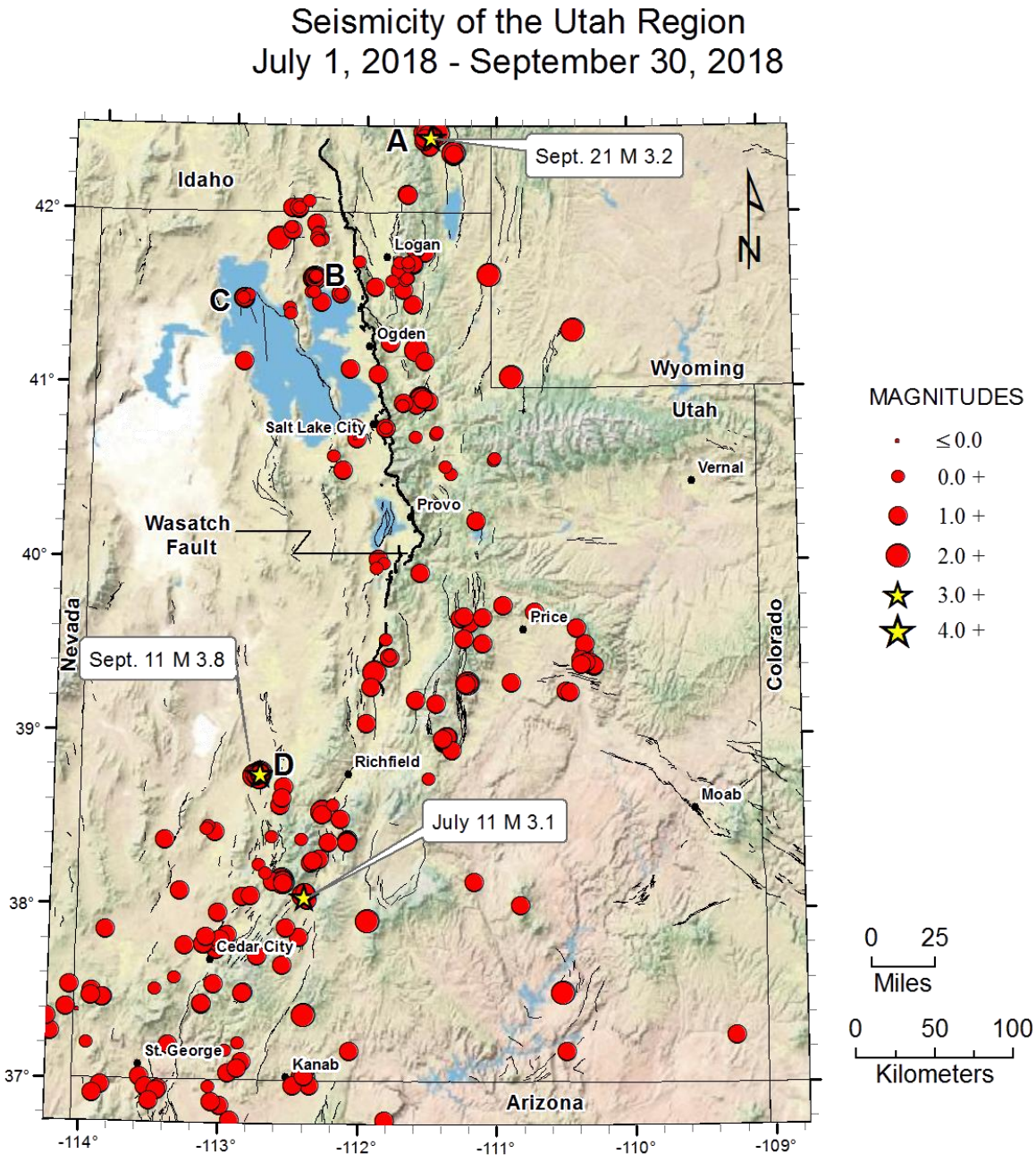


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superimposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey (black lines). The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local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

Table 1

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

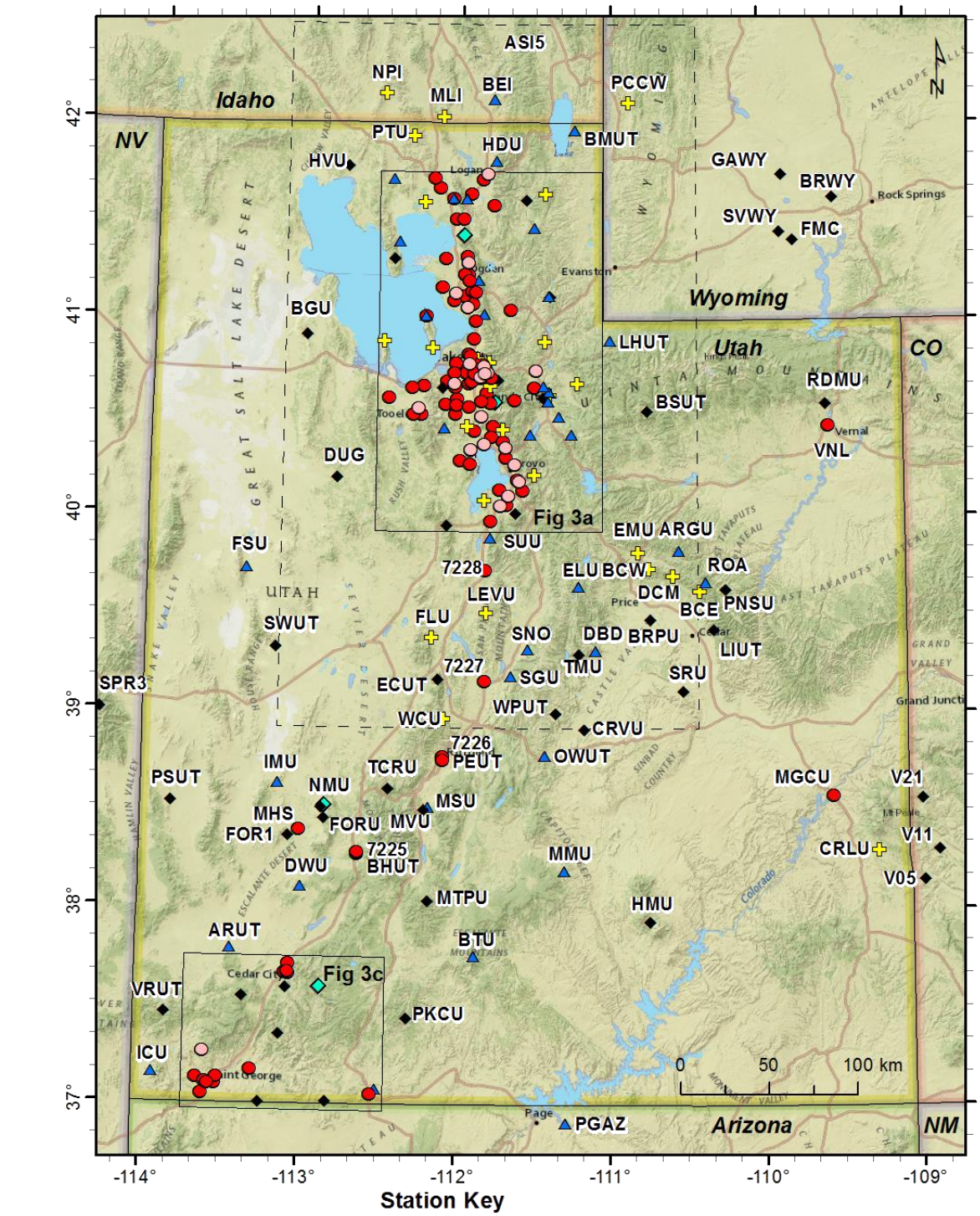
January 1, 2018 to December 31, 2018

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 8	15:38 MST 22:38 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Richfield, UT.	38º 27.13′	112º 28.77′	M_L 3.5
February 28	07:11 MST 14:11 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) Panguitch, Alton, UT and (II) at Bryce Canyon, Paragonah, UT.	112º 31.84′	112º 31.84′	M_L 3.6
March 21 March 22	18:27 MDT 00:27 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Loa, UT.	38º 25.04′	111º 39.36′	M_L 3.0
March 22	07:21 MDT 13:21 UTC	Utah. *CIIM*. *ShakeMap*. Felt (IV) at Teasdale, UT (III) at Loa, UT, and (II) at Torrey, Richfield, UT.	38º 25.23′	111º 39.42′	M_L 3.2
April 3	14:26 MDT 20:26 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Loa, Teasdale, Salina, UT and (II) at Torrey, UT.	38º 25.02′	111º 39.67′	M_L 3.5
May 2 May 3	20:49 MDT 02:49 UTC	Utah. *CIIM*. *ShakeMap*. Felt (II) at Santa Clara, St. George, Washington, UT.	37º 00.37′	113º 49.77′	M_L 3.0
June 19	01:15 MDT 07:15 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Salt Lake City, UT and (II) at West Jordan, Kaysville, UT.	38º 08.52′	112º 34.25′	M_L 3.1
July 11	07:21 MDT 13:21 UTC	Utah. *ShakeMap*.	38º 03.51′	112º 24.05′	M_L 3.1
September 11 September 12	23:54 MDT 05:34 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Cedar City, Salt Lake City (?), UT.	38º 45.92′	112º 44.06′	M_L 3.8

† Times are listed both as Local Time—Mountain Standard Time (MST) or Mountain Daylight Time (MDT)—and as Universal Coordinated Time (UTC).
? Indicates on-line reports that appear questionable given the distance from the source
‡ *CIIM* indicates the availability of a Community Internet Intensity Map (http://earthquake.usgs.gov/earthquakes/dyfi), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking (http://www.quake.utah.edu), produced by the University of Utah Seismograph Stations (UUSS). Roman numerals

correspond to the Modified Mercalli intensity scale. Unless otherwise indicated, felt information is from the USGS (1) CIIM reports and/or (2) PDE Monthly (or) Weekly Listing Files (http://earthquake.usgs.gov/data/pde.php).
§ Richter local magnitude (M_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
September 30, 2018



Station Key

- Single-component, Analog-telemetry, Short-period
- Multi-component, Analog-telemetry, Short-period
- Multi-component, Digital-telemetry, Broadband
- Multi-component, Digital-telemetry, Strong Motion

Bounds of map correspond to standard "Utah Region"

- Traditional "Wasatch Front Area"
- Multi-comp Strong-Motion, Vertical Short-Period Digital and/or Analog-telemetry
- NetQuakes

Figure 2

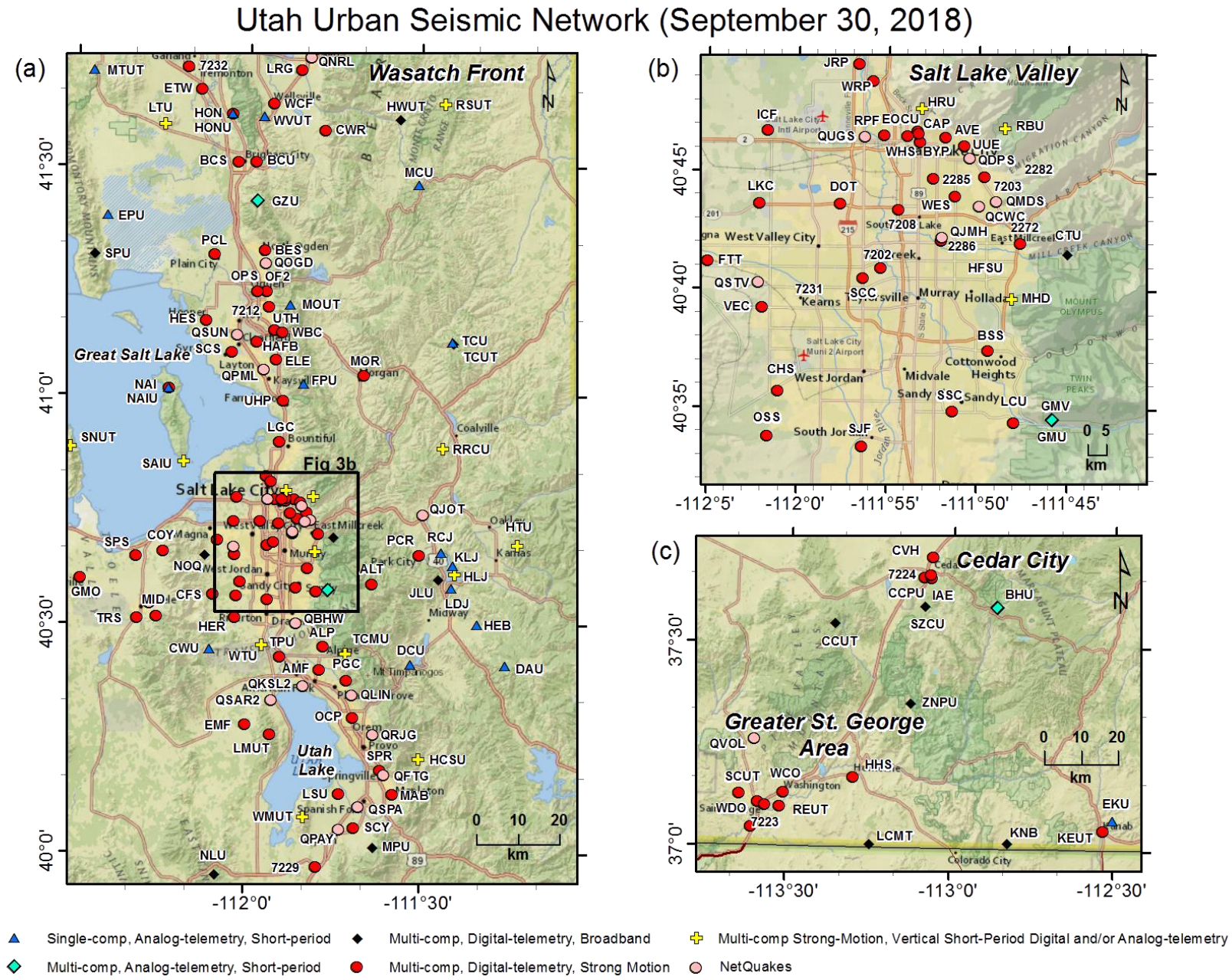

Utah Urban Seismic Network (September 30, 2018)
(a)
Wasatch Front
Great Salt Lake
Salt Lake City
Utah Lake
Fig 3b
(b)
Salt Lake Valley
(c)
Cedar City
Greater St. George Area
Single-comp, Analog-telemetry, Short-period
Multi-comp, Analog-telemetry, Short-period
Multi-comp, Digital-telemetry, Broadband
Multi-comp, Digital-telemetry, Strong Motion
Multi-comp Strong-Motion, Vertical Short-Period Digital and/or Analog-telemetry
NetQuakes

Figure 3

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180701	06:02:22.94	38º 05.18′	113º 18.52′	14.3	1.2	16	101	27	0.17
180701	12:15:55.91	41º 56.13′	112º 22.88′	3.0	1.1W	16	92	5	0.11
180701	21:29:42.72	41º 49.96′	112º 21.87′	0.2*	0.4	7	116	11	0.26
180701	22:56:52.74	36º 50.97′	112º 59.36′	20.1	1.6W	10	183	24	0.10
180702	06:31:17.69	37º 01.45′	112º 23.23′	21.9	1.8W	11	118	11	0.07
180702	10:15:04.64	39º 16.07′	111º 55.78′	4.8*	1.3	16	62	16	0.13
180703	09:24:20.86	40º 42.32′	111º 36.73′	7.9	0.2	15	93	12	0.07
180703	09:37:11.81	40º 00.47′	111º 53.10′	6.8	1.7W	25	65	9	0.17
180703	13:02:38.27	38º 08.49′	112º 33.62′	11.1	2.1W	31	50	17	0.19
180703	15:11:32.75	41º 53.77′	112º 34.04′	2.9*	1.1	14	134	20	0.09
180703	22:09:44.33	41º 54.45′	112º 34.41′	1.6*	0.6	9	139	21	0.12
180705	13:29:13.91	39º 24.76′	110º 18.62′	-1.6	1.2	8	196	2	0.04
180706	02:17:28.27	41º 31.87′	112º 10.97′	0.0	0.8	14	82	9	0.11
180706	02:51:33.60	41º 31.77′	112º 11.55′	2.2	1.1W	20	70	8	0.14
180706	15:39:23.27	39º 15.06′	110º 29.09′	10.8	1.3W	16	158	16	0.07
180707	10:14:52.70	41º 15.12′	111º 48.79′	7.3*	1.7W	27	66	25	0.19
180708	21:06:15.17	38º 03.16′	112º 23.19′	5.6*	1.2W	13	61	18	0.25
180709	03:22:06.16	41º 28.13′	111º 38.73′	10.2	1.4W	15	59	12	0.15
180709	08:33:58.15	38º 03.98′	112º 24.10′	0.0*	2.7W	25	54	19	0.25
180709	08:40:56.34	38º 05.16′	112º 23.63′	1.7*	1.2W	14	144	19	0.25
180709	08:46:37.40	38º 02.60′	112º 23.05′	5.9*	1.2W	14	124	18	0.23
180709	17:53:58.09	41º 31.88′	112º 11.27′	5.5	0.6	9	157	8	0.07
180709	19:46:48.09	39º 21.10′	111º 54.37′	4.3*	2.0W	13	95	19	0.14
180710	11:36:25.82	36º 52.45′	113º 29.86′	17.7	1.3W	9	195	27	0.17
180710	14:41:04.31	42º 01.16′	112º 31.32′	0.9*	1.2	15	142	14	0.06
180711	03:04:35.76	41º 34.09′	111º 55.50′	-0.9	1.3	19	58	5	0.08
180711	04:12:14.56	42º 01.50′	112º 31.18′	4.6*	1.1	13	181	14	0.14
180711	12:12:53.91	38º 30.39′	112º 08.66′	10.3	1.0W	11	120	3	0.11
180711	13:21:25.34	38º 03.51′	112º 24.05′	6.5*	3.1W	34	48	19	0.33
180711	14:09:29.82	37º 33.09′	113º 02.80′	13.7	1.5W	14	96	6	0.10
180711	21:38:01.66	38º 04.34′	112º 23.48′	3.2*	1.6W	20	63	18	0.25
180711	22:14:26.98	39º 36.74′	110º 24.38′	-1.3	1.3	9	106	0	0.06
180712	06:00:37.46	39º 42.12′	110º 43.14′	-2.9	1.6	7	162	4	0.07
180712	17:50:57.62	38º 03.68′	112º 23.37′	5.5*	1.5W	17	60	18	0.26
180713	02:45:53.42	39º 14.52′	110º 27.52′	12.1	0.9	11	173	16	0.09
180713	16:50:37.81	40º 35.19′	111º 01.20′	3.6*	0.7	7	123	20	0.16
180713	20:15:47.01	37º 30.80′	113º 28.44′	7.4	0.8W	10	104	11	0.10
180713	21:08:22.83	40º 34.62′	111º 01.36′	2.6*	0.9	11	127	20	0.12
180714	04:05:18.91	37º 28.48′	113º 55.94′	7.8	1.0	15	87	7	0.21
180714	13:10:19.44	38º 08.88′	111º 10.10′	6.0*	1.4W	15	104	44	0.14
180714	16:32:38.45	41º 40.16′	111º 44.16′	7.6	1.0W	19	62	10	0.09
180714	20:11:21.57	40º 35.65′	112º 13.90′	7.1	0.9	15	132	9	0.18
180714	21:25:41.13	37º 15.71′	114º 13.15′	3.1*	1.2	14	109	29	0.20
180715	06:26:32.90	42º 01.33′	112º 31.19′	1.0*	0.7	13	141	14	0.14
180715	08:17:16.99	41º 46.27′	111º 33.11′	4.6*	1.6W	30	77	18	0.21

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180715	23:24:49.99	37º 09.94′	112º 57.44′	15.1	0.8W	12	94	20	0.13
180716	17:33:08.59	37º 00.80′	113º 33.92′	1.9*	1.7W	14	159	29	0.24
180716	20:16:27.21	37º 12.85′	112º 52.13′	13.2	0.6W	10	193	22	0.24
180717	02:36:41.52	42º 25.44′	111º 31.96′	13.7	2.7W	19	95	15	0.09
180717	15:36:05.41	37º 01.39′	112º 23.27′	20.4	2.0W	17	98	11	0.15
180720	03:30:31.89	37º 51.31′	113º 50.26′	15.3*	1.6W	16	95	36	0.30
180720	03:49:14.51	36º 58.26′	112º 28.26′	21.7	1.3W	12	150	12	0.10
180722	03:15:58.31	42º 06.21′	111º 41.30′	10.5	1.5W	15	247	8	0.09
180722	05:28:10.51	37º 30.08′	113º 55.69′	2.6	1.8W	20	48	8	0.16
180722	17:45:45.64	37º 01.38′	112º 23.15′	20.7	1.6W	15	144	11	0.08
180722	22:40:13.52	38º 22.66′	112º 05.59′	11.2	1.0	17	59	17	0.18
180722	22:47:22.48	38º 22.95′	112º 05.55′	11.4	1.0W	15	85	16	0.18
180722	22:49:15.94	38º 23.10′	112º 05.67′	12.6	1.0W	23	58	16	0.23
180723	00:04:19.09	38º 23.37′	112º 05.44′	10.0	1.3W	20	85	16	0.26
180723	07:11:41.45	41º 51.06′	112º 20.36′	5.1	0.8	15	78	9	0.15
180723	17:11:55.46	42º 05.92′	111º 40.96′	10.5	1.2W	9	188	8	0.04
180724	01:27:11.21	39º 44.56′	110º 57.12′	2.6*	1.2W	9	172	14	0.16
180724	03:05:56.50	41º 52.63′	112º 22.61′	5.0	0.6	8	110	7	0.05
180724	12:11:43.66	39º 17.62′	111º 12.91′	-2.5	2.3W	21	66	1	0.13
180724	18:10:31.77	38º 54.44′	111º 19.71′	3.5*	1.2W	5	126	14	0.08
180724	19:31:35.51	39º 17.57′	111º 12.58′	-2.6	1.5W	6	124	0	0.14
180725	03:59:02.76	41º 51.05′	112º 20.55′	4.8	0.9	11	79	9	0.11
180725	05:43:01.41	41º 36.28′	111º 48.02′	-0.1	0.7	8	125	3	0.05
180725	06:55:25.36	37º 49.39′	113º 06.53′	3.3*	1.0	7	272	25	0.13
180725	11:42:25.10	37º 39.91′	112º 33.34′	3.3*	1.8W	18	58	33	0.18
180727	10:34:09.40	42º 27.77′	111º 32.86′	11.7*	1.6W	15	108	43	0.09
180728	05:00:08.11	36º 52.48′	113º 03.20′	23.7	1.3W	11	167	23	0.06
180731	01:11:05.44	41º 03.43′	110º 53.43′	17.7	2.1W	20	138	20	0.15
180731	11:01:35.26	37º 35.08′	113º 20.09′	6.1	0.8W	8	124	5	0.08
180731	12:12:36.27	40º 30.84′	112º 09.60′	0.4	1.1	16	82	8	0.20
180731	22:00:46.48	38º 08.81′	112º 37.83′	6.2*	1.9W	26	42	33	0.19
180803	23:10:34.00	41º 50.99′	112º 22.82′	1.1	0.4	10	87	10	0.14
180804	07:58:33.13	41º 24.79′	112º 34.39′	0.5*	0.6	11	122	14	0.10
180804	16:52:39.44	39º 17.23′	111º 13.81′	-3.2	1.2	6	168	2	0.06
180804	19:59:25.04	40º 13.79′	111º 09.22′	18.5	1.2W	12	162	22	0.19
180805	00:17:43.88	38º 41.42′	112º 33.74′	1.7*	1.2	14	90	13	0.17
180805	20:33:26.61	41º 47.49′	111º 36.95′	11.4	0.6	12	107	12	0.09
180805	20:33:39.52	41º 42.62′	111º 44.69′	0.1*	0.7	8	104	11	0.10
180805	20:42:08.64	41º 47.29′	111º 37.18′	12.0	0.8	12	106	12	0.06
180806	02:29:04.82	36º 57.12′	113º 31.60′	6.2*	1.5W	17	135	26	0.25
180806	10:46:07.04	41º 52.81′	112º 22.25′	5.9	0.8	8	86	7	0.21
180806	17:44:44.69	38º 37.58′	112º 34.45′	0.3*	0.9	12	82	11	0.09
180806	18:38:44.58	41º 42.45′	111º 38.46′	8.8	1.2W	12	100	13	0.13
180807	07:11:10.14	41º 42.63′	112º 02.98′	9.7	0.5	12	79	9	0.26
180807	09:29:25.77	38º 45.40′	112º 45.49′	2.3*	1.4W	12	181	28	0.12

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180807	09:34:02.59	38° 45.88′	112° 44.27′	4.3*	1.0	11	89	29	0.21
180807	09:53:18.19	38° 43.96′	112° 44.99′	6.4*	1.3W	18	76	26	0.16
180807	09:53:40.29	38° 44.86′	112° 44.45′	4.6*	1.8	7	143	27	0.16
180807	10:06:25.55	38° 45.97′	112° 44.17′	0.4*	2.9W	32	47	29	0.25
180807	10:32:48.24	41° 47.11′	111° 36.65′	11.0	0.4	6	111	13	0.06
180807	10:41:16.35	38° 43.97′	112° 43.97′	8.2*	1.8W	11	75	26	0.18
180807	10:51:04.22	39° 57.19′	111° 54.04′	6.5*	0.9W	9	98	15	0.05
180807	11:06:36.06	41° 47.39′	111° 37.31′	11.9	1.5W	20	79	12	0.11
180808	06:31:35.78	37° 55.23′	111° 56.61′	2.5*	2.0W	22	73	19	0.18
180808	07:27:45.79	38° 27.39′	113° 06.54′	0.4	0.6	8	106	10	0.20
180809	07:50:34.90	40° 44.03′	111° 27.29′	8.5	0.4	18	82	8	0.15
180809	10:18:01.34	40° 43.44′	111° 27.36′	10.2	0.5	13	82	7	0.12
180809	22:08:48.19	38° 45.28′	112° 44.44′	5.1*	1.4	14	78	28	0.11
180810	04:54:08.51	37° 12.03′	113° 57.45′	-0.1	0.2	8	225	6	0.17
180810	07:09:57.44	41° 30.80′	112° 53.44′	9.2*	0.9W	14	186	31	0.12
180810	09:22:42.91	41° 30.16′	112° 55.58′	9.1*	1.7W	26	194	33	0.15
180810	16:55:54.82	41° 30.06′	112° 55.67′	9.8*	1.0	17	194	33	0.10
180810	17:23:09.24	41° 30.13′	112° 55.49′	3.7*	1.5W	22	194	33	0.15
180810	19:03:12.44	41° 30.40′	112° 55.30′	9.4*	1.1	15	193	33	0.13
180810	20:00:01.40	41° 30.06′	112° 55.22′	1.2*	1.1W	17	192	33	0.14
180811	02:02:43.78	37° 06.24′	112° 50.10′	10.8	1.2W	10	82	10	0.13
180811	11:23:52.49	41° 41.84′	111° 38.40′	16.7	1.3W	22	63	12	0.12
180811	11:24:02.46	41° 42.77′	111° 40.71′	12.5	0.6	6	146	12	0.07
180811	14:37:27.56	38° 22.48′	113° 25.58′	0.1*	1.9W	22	68	29	0.15
180811	16:53:27.31	38° 00.87′	110° 49.76′	-0.9*	1.2W	12	118	11	0.27
180811	23:03:52.16	39° 27.97′	110° 21.27′	-1.2	1.8W	22	102	5	0.19
180813	02:54:48.28	37° 20.85′	114° 14.74′	-0.1*	1.0	16	149	36	0.26
180814	09:34:57.95	41° 05.93′	112° 06.66′	9.4	1.6W	32	54	13	0.19
180815	00:11:13.24	39° 40.54′	111° 14.69′	-1.1	1.1W	13	84	5	0.08
180815	00:29:48.39	41° 29.74′	112° 55.34′	1.7*	1.3W	19	192	34	0.10
180815	21:21:04.99	39° 23.68′	110° 17.02′	-3.3	1.3W	7	207	5	0.19
180816	17:40:59.78	39° 24.38′	110° 22.41′	-3.4	1.0	7	151	5	0.25
180816	18:36:01.11	37° 30.85′	110° 31.02′	6.1*	2.7	14	168	51	0.13
180816	23:35:57.00	38° 26.33′	113° 07.30′	0.5	0.5	10	117	8	0.11
180817	09:01:24.22	39° 24.72′	110° 20.54′	-1.2	1.1	7	159	2	0.08
180817	10:03:30.37	37° 23.32′	114° 01.25′	9.9	-.3	7	148	17	0.09
180817	12:55:24.93	37° 49.45′	112° 26.21′	6.2*	1.7W	18	67	33	0.17
180817	13:58:41.37	39° 32.95′	111° 14.48′	1.6*	1.1W	10	156	11	0.17
180818	05:06:16.33	38° 59.28′	111° 22.05′	-1.6	1.9W	22	57	1	0.14
180818	05:30:54.85	38° 57.23′	111° 23.51′	-3.4	1.8	6	131	6	0.26
180818	18:18:26.54	38° 58.94′	111° 21.91′	-1.9	1.4W	21	47	2	0.11
180819	01:47:33.85	38° 58.86′	111° 21.65′	-3.1	1.8	7	78	2	0.08
180819	02:41:56.44	38° 57.57′	111° 23.44′	3.2*	1.4W	10	84	20	0.10
180819	08:41:14.44	39° 55.78′	111° 34.17′	4.9*	1.3W	18	75	11	0.13
180819	17:24:55.36	36° 46.39′	111° 48.21′	6.0*	1.8W	13	101	34	0.23

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180819	17:47:43.61	37° 30.37′	112° 50.07′	16.6	1.3W	13	55	24	0.09
180819	19:04:20.57	37° 32.03′	114° 05.35′	9.6*	1.3	14	100	22	0.14
180820	13:24:35.10	37° 16.06′	109° 16.20′	12.7*	1.9	8	129	69	0.23
180820	16:03:25.88	41° 30.02′	112° 56.07′	9.4*	1.5W	12	195	34	0.08
180820	17:17:50.30	37° 49.99′	112° 57.36′	13.6*	1.3W	13	102	29	0.15
180820	20:11:19.41	41° 08.25′	112° 54.97′	4.9*	1.2W	12	167	26	0.11
180820	22:32:31.39	38° 59.41′	111° 22.33′	1.8	1.7	5	122	1	0.12
180821	10:30:22.96	39° 39.98′	111° 16.48′	-2.0	1.4	10	150	7	0.09
180821	11:31:32.77	36° 57.32′	113° 04.30′	29.0	0.7W	12	164	17	0.14
180821	21:26:58.61	39° 23.94′	110° 16.85′	-3.4	1.2	6	208	5	0.12
180821	23:59:35.26	37° 52.74′	112° 32.13′	4.2*	1.5W	10	120	36	0.19
180822	02:48:23.81	38° 09.24′	112° 34.09′	6.2*	2.7W	34	43	36	0.24
180822	07:26:18.22	39° 24.12′	110° 18.69′	-1.6	1.2	7	198	3	0.02
180822	15:12:06.23	39° 24.33′	110° 18.44′	-2.2	1.6W	14	116	3	0.18
180822	20:08:11.33	39° 24.15′	110° 18.54′	-1.7	1.6W	12	198	3	0.09
180823	02:39:04.55	39° 31.45′	111° 06.30′	3.5*	1.1W	10	127	15	0.11
180823	08:13:00.24	41° 28.69′	112° 20.26′	0.5*	1.3	16	101	11	0.14
180823	11:48:58.49	42° 27.24′	111° 27.46′	-2.8*	2.2W	12	124	45	0.22
180823	17:42:33.71	38° 03.62′	112° 47.55′	7.5*	1.5W	18	70	19	0.21
180823	18:44:03.77	40° 32.15′	111° 23.49′	8.8	0.4	9	187	5	0.13
180825	06:12:05.14	37° 10.71′	110° 29.72′	19.9*	1.5W	11	164	87	0.14
180825	10:12:20.85	39° 40.48′	111° 06.62′	0.1	1.2	11	173	9	0.09
180825	16:17:57.95	38° 09.11′	112° 33.69′	7.4*	1.9W	26	54	35	0.29
180826	05:13:50.57	38° 07.98′	112° 33.58′	6.9*	1.5W	23	53	17	0.26
180826	06:19:44.23	41° 38.63′	111° 03.44′	-1.5*	2.1W	19	74	31	0.23
180829	00:39:25.16	42° 01.30′	112° 34.26′	5.8*	1.2W	13	164	15	0.10
180829	08:58:03.40	37° 04.21′	112° 52.09′	8.6	1.0W	14	115	7	0.23
180830	03:39:32.74	37° 29.89′	112° 50.38′	3.4*	1.0W	13	134	24	0.21
180831	01:02:56.91	42° 22.72′	111° 31.38′	8.6*	1.3W	8	114	36	0.19
180831	06:11:45.91	41° 50.65′	112° 39.85′	8.8	2.3W	23	91	12	0.15
180831	19:20:35.74	39° 58.77′	111° 50.59′	5.1*	0.9	6	107	11	0.01
180831	20:55:00.84	40° 45.29′	112° 04.14′	8.7	1.4W	23	62	12	0.14
180901	23:01:02.95	37° 47.27′	113° 00.93′	1.8*	1.2W	15	70	22	0.23
180902	04:39:35.52	41° 37.13′	112° 24.22′	6.5*	1.7W	20	86	13	0.11
180902	08:13:22.43	40° 45.45′	111° 50.18′	-0.1	0.7W	33	62	1	0.22
180902	11:52:34.54	38° 15.40′	112° 21.29′	4.4*	1.8W	23	88	28	0.23
180902	16:33:17.52	40° 45.49′	111° 50.31′	0.0	1.0W	31	59	1	0.22
180903	00:26:43.89	37° 02.43′	112° 56.28′	18.5	1.1	11	160	11	0.14
180903	12:11:49.72	41° 37.36′	112° 23.77′	8.0	1.9W	25	85	13	0.16
180903	12:38:56.08	41° 37.18′	112° 23.88′	5.3*	0.8	14	112	13	0.13
180903	12:39:34.49	41° 37.56′	112° 23.14′	7.6	0.5	9	109	12	0.19
180903	13:09:15.21	41° 33.38′	111° 42.69′	10.2	1.1W	15	126	6	0.13
180903	15:57:25.04	41° 37.19′	112° 23.59′	7.9	1.5W	18	85	8	0.14
180903	21:33:15.72	41° 50.39′	112° 20.25′	5.8	0.6	11	96	10	0.07
180903	23:48:16.25	41° 37.23′	112° 23.49′	8.2	2.3W	21	85	8	0.14

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180903	23:57:40.95	41° 37.71′	112° 22.98′	5.9	0.3	7	109	8	0.13
180904	01:15:58.56	37° 46.79′	113° 07.35′	1.2*	1.5	14	101	21	0.19
180904	02:44:35.18	37° 46.76′	113° 07.60′	-0.6*	1.3W	14	104	21	0.21
180904	02:58:22.06	37° 46.75′	113° 07.84′	-2.4*	1.2	17	54	21	0.18
180904	08:44:42.86	38° 58.37′	111° 23.91′	-0.3	1.0W	9	147	4	0.08
180904	19:27:53.77	36° 58.42′	112° 21.01′	21.8	1.5W	13	141	17	0.15
180905	12:50:57.95	38° 33.00′	112° 16.70′	-2.7	2.2W	27	52	8	0.20
180905	13:08:58.26	38° 32.14′	112° 16.92′	-3.0	1.6W	15	62	7	0.17
180905	23:19:11.91	38° 11.51′	112° 41.45′	4.1*	0.5	9	200	29	0.10
180906	05:07:04.76	40° 19.20′	111° 27.50′	2.6*	0.6	17	137	12	0.18
180906	08:46:49.50	38° 22.38′	112° 13.69′	4.1*	1.6W	26	95	15	0.20
180906	17:57:58.00	37° 11.83′	113° 22.19′	1.8	1.5W	18	114	7	0.12
180906	18:33:08.23	36° 56.56′	113° 26.12′	19.3	1.4W	18	138	19	0.18
180906	18:33:08.30	36° 55.94′	113° 26.85′	18.0	1.4W	17	141	20	0.13
180906	20:10:45.64	41° 29.96′	112° 56.15′	5.9*	0.6W	10	195	34	0.18
180906	20:27:51.46	38° 24.16′	112° 38.73′	4.1*	0.0	11	90	22	0.06
180907	00:37:11.07	38° 35.34′	112° 12.08′	-0.9	0.8W	13	84	9	0.15
180907	01:50:52.00	37° 46.25′	113° 16.02′	-2.7*	1.5	12	194	15	0.18
180907	02:43:16.74	40° 45.40′	111° 50.13′	-0.1	1.0W	30	63	2	0.22
180907	14:07:43.64	37° 57.86′	113° 01.78′	16.0	1.1	11	174	16	0.10
180907	21:54:36.23	41° 37.40′	112° 23.33′	6.1	0.7	15	84	8	0.23
180907	22:04:34.07	39° 26.34′	111° 47.61′	4.6	1.4W	14	95	8	0.20
180907	23:13:03.64	39° 27.01′	111° 47.59′	4.7	0.8	12	88	7	0.17
180908	05:06:28.72	37° 24.24′	114° 06.56′	5.6*	1.3	15	75	23	0.21
180908	21:48:56.11	40° 45.41′	111° 50.52′	0.0	0.8W	25	71	1	0.21
180909	03:52:48.05	40° 55.76′	111° 34.41′	7.0	2.5W	45	34	12	0.17
180909	03:53:18.44	40° 55.61′	111° 34.18′	8.7	2.4W	26	63	12	0.12
180909	03:57:41.17	40° 55.55′	111° 33.53′	12.3	1.1W	22	64	11	0.18
180909	15:10:23.02	37° 27.92′	113° 51.02′	5.2	1.5W	15	59	1	0.16
180910	10:55:06.46	38° 07.96′	112° 33.61′	-1.6*	1.1	24	68	17	0.29
180910	12:18:50.93	38° 03.34′	112° 51.08′	4.4*	1.7W	15	53	14	0.07
180910	13:52:04.40	39° 10.40′	111° 26.95′	2.0*	1.1W	14	113	17	0.12
180911	10:39:33.06	41° 37.39′	112° 23.86′	4.1*	1.5W	20	85	13	0.18
180911	19:52:03.31	36° 46.06′	112° 55.11′	6.1*	1.4W	7	191	29	0.07
180912	03:56:53.41	42° 24.48′	111° 33.78′	12.7*	1.0	9	121	37	0.10
180912	04:15:32.93	38° 45.01′	112° 44.39′	6.4*	1.6W	16	78	28	0.18
180912	05:25:58.47	41° 30.31′	112° 55.14′	9.5*	0.9	18	192	33	0.17
180912	05:34:26.62	38° 45.92′	112° 44.06′	0.0*	3.8W	37	47	29	0.26
180912	05:43:54.24	38° 45.34′	112° 44.55′	1.8*	1.1	12	94	28	0.18
180912	05:56:24.04	38° 44.91′	112° 44.90′	6.1*	2.3W	23	78	27	0.15
180912	06:00:13.36	38° 44.89′	112° 44.33′	5.7*	1.9W	21	77	27	0.14
180912	06:02:46.13	38° 45.05′	112° 46.63′	-0.5*	2.0W	20	102	27	0.27
180912	06:28:39.67	38° 45.15′	112° 45.93′	2.3*	1.1	13	76	27	0.17
180912	06:29:20.77	38° 45.49′	112° 44.23′	6.7*	1.8W	18	76	29	0.15
180912	07:13:03.86	38° 45.47′	112° 45.13′	3.5*	2.2W	33	47	28	0.24

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180912	22:57:52.25	38º 45.41′	112º 44.18′	6.5*	1.8W	15	62	28	0.17
180912	23:08:03.97	38º 45.94′	112º 44.41′	5.1*	1.3	13	84	29	0.16
180913	05:09:53.59	37º 27.75′	113º 50.86′	5.8	1.5W	15	79	1	0.11
180913	06:55:24.10	41º 36.41′	111º 41.91′	10.0	0.2	12	94	11	0.10
180913	18:55:04.57	41º 04.08′	111º 53.91′	-3.0	0.9	8	81	2	0.30
180914	01:46:49.97	41º 26.78′	112º 34.62′	5.8*	0.8W	12	123	15	0.08
180914	06:29:41.20	42º 03.78′	112º 26.65′	0.4*	0.8	11	131	11	0.10
180914	07:45:57.69	38º 45.39′	112º 46.53′	1.8*	1.9W	19	75	27	0.22
180914	16:00:11.55	36º 54.81′	113º 54.11′	10.6*	1.6	10	139	26	0.18
180914	20:46:47.97	36º 57.82′	113º 50.62′	0.2*	1.9W	13	256	22	0.25
180914	20:50:36.04	41º 32.33′	112º 24.87′	0.3*	0.9	11	125	15	0.06
180915	13:27:58.81	37º 22.57′	112º 23.72′	9.1	2.5W	20	108	11	0.20
180915	20:15:51.35	41º 08.60′	111º 32.69′	12.0	1.5W	15	116	12	0.05
180917	03:09:03.62	38º 44.49′	111º 29.88′	1.5	0.6W	9	100	8	0.08
180917	19:09:25.46	37º 45.99′	113º 02.47′	7.4*	1.8W	24	62	19	0.19
180917	19:19:43.93	37º 44.98′	113º 01.89′	2.3*	1.6W	12	87	18	0.10
180918	04:30:16.42	37º 43.05′	112º 44.39′	5.8*	1.3	8	236	49	0.21
180918	19:38:45.55	39º 31.35′	110º 20.84′	-1.1*	1.8W	12	134	11	0.06
180919	06:00:58.69	38º 14.40′	112º 44.39′	-0.3	0.9	15	135	10	0.08
180919	22:39:08.05	39º 32.65′	111º 49.29′	-3.5	0.9	6	156	4	0.10
180920	02:43:49.81	42º 25.98′	111º 30.63′	7.9*	1.3W	10	117	42	0.06
180920	23:59:51.48	39º 17.93′	110º 53.55′	1.6*	1.0W	18	111	17	0.14
180921	04:41:25.77	41º 19.60′	110º 25.16′	37.8	2.1W	22	77	48	0.16
180921	05:11:49.12	42º 26.11′	111º 31.05′	7.3*	1.9W	18	117	42	0.16
180921	05:50:06.67	42º 26.43′	111º 31.16′	10.3*	1.4W	10	138	42	0.13
180921	08:08:36.87	42º 24.81′	111º 29.45′	12.6*	1.9W	15	113	41	0.17
180921	08:39:16.38	42º 26.63′	111º 32.36′	6.5*	2.0W	21	134	42	0.21
180921	08:39:38.36	42º 27.17′	111º 32.45′	8.1*	2.6W	21	122	42	0.20
180921	08:48:57.94	42º 26.86′	111º 32.26′	5.6*	1.1	10	157	42	0.21
180921	09:06:32.17	42º 27.52′	111º 34.34′	4.2*	1.8W	22	125	52	0.32
180921	09:07:26.08	42º 26.04′	111º 30.58′	6.6*	2.5W	23	117	42	0.21
180921	09:12:55.48	42º 26.12′	111º 30.70′	8.5*	1.8W	10	152	42	0.11
180921	09:51:50.43	42º 26.35′	111º 30.07′	7.5*	1.4W	12	137	43	0.09
180921	10:06:29.75	42º 25.92′	111º 31.02′	-0.1*	2.2W	23	117	41	0.25
180921	10:13:19.46	42º 25.01′	111º 29.81′	5.7*	1.6W	15	117	41	0.22
180921	10:28:36.73	42º 26.02′	111º 31.07′	5.8*	1.6W	12	139	41	0.21
180921	11:33:40.55	42º 26.10′	111º 32.09′	2.0*	1.8W	22	120	41	0.22
180921	11:36:00.52	42º 26.19′	111º 31.17′	5.7*	1.9W	19	118	42	0.26
180921	11:42:11.97	42º 25.89′	111º 30.98′	2.1*	1.9W	19	117	41	0.21
180921	13:00:05.82	42º 26.13′	111º 31.92′	3.9*	2.3W	20	120	41	0.17
180921	13:29:15.05	42º 25.02′	111º 32.44′	7.6*	1.5W	9	119	39	0.27
180921	13:34:51.16	42º 25.85′	111º 30.46′	11.0*	3.2W	24	117	42	0.17
180921	14:14:34.76	42º 26.26′	111º 31.75′	0.3*	1.8W	17	119	41	0.22
180921	16:04:29.42	42º 25.48′	111º 33.34′	8.0*	0.9	8	171	39	0.05
180921	19:58:47.97	39º 03.46′	111º 57.73′	8.3	1.4W	15	83	15	0.11

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2018

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
180922	01:23:47.48	37º 10.28′	112º 03.76′	9.1*	1.8W	20	108	37	0.16
180922	07:17:42.21	42º 26.35′	111º 29.44′	10.9	1.6W	9	165	11	0.07
180922	09:54:14.65	41º 37.29′	111º 40.72′	10.0	0.4	10	102	10	0.09
180922	18:15:09.33	38º 15.91′	112º 20.85′	3.6*	1.1W	12	122	29	0.21
180922	19:53:58.40	41º 37.11′	111º 41.12′	10.2	0.2	9	114	9	0.18
180923	02:45:52.85	39º 11.64′	111º 36.10′	22.5	1.2	16	92	30	0.13
180924	03:40:10.37	42º 22.69′	111º 31.15′	7.1*	1.3	9	115	36	0.15
180924	04:02:18.50	37º 01.72′	112º 23.28′	21.8	1.2W	8	164	11	0.05
180924	06:28:15.27	41º 12.40′	111º 36.76′	9.1	2.0W	40	102	18	0.18
180924	19:16:03.94	39º 38.29′	111º 12.25′	-2.3	1.9	11	111	0	0.09
180924	21:33:19.08	42º 20.27′	111º 19.91′	8.1	1.3W	8	148	16	0.09
180925	03:07:59.53	37º 48.38′	113º 00.40′	1.1*	1.0	14	110	24	0.14
180925	07:33:22.74	42º 19.58′	111º 19.91′	4.2*	1.4W	9	147	42	0.21
180925	11:37:45.69	42º 20.39′	111º 20.13′	-0.4*	2.0W	21	95	43	0.24
180926	03:19:01.76	41º 32.32′	112º 23.78′	0.4*	0.6W	16	121	14	0.12
180926	03:21:13.62	41º 32.36′	112º 23.96′	0.3*	0.8	16	121	14	0.19
180926	20:54:02.37	38º 25.59′	113º 03.75′	8.5	1.0	9	126	7	0.18
180926	22:49:29.68	37º 25.82′	113º 08.12′	11.5	1.6W	23	55	8	0.16
180926	23:07:08.08	37º 26.07′	113º 08.04′	11.7	1.4W	22	76	9	0.16
180927	00:27:34.84	42º 25.48′	111º 30.67′	6.7*	1.4W	15	117	41	0.18
180927	12:37:55.57	38º 16.60′	112º 17.88′	5.4*	1.1W	29	46	26	0.18
180927	16:27:49.74	41º 41.23′	111º 40.92′	9.6	0.9	12	131	13	0.08
180927	20:27:24.88	39º 25.69′	110º 22.52′	3.6*	1.6	6	141	21	0.28
180928	02:42:59.02	40º 54.19′	111º 42.53′	8.1	1.1W	32	47	16	0.17
180928	05:12:02.36	40º 53.40′	111º 42.63′	8.8	0.7	15	90	15	0.15
180928	05:20:26.18	38º 23.32′	112º 25.89′	4.5*	0.3	14	88	23	0.09
180928	06:40:47.86	40º 54.95′	111º 31.10′	9.3	1.4W	29	71	8	0.14
180929	05:30:47.97	38º 35.15′	112º 35.16′	2.9*	1.9W	15	153	12	0.09
180930	02:21:24.46	40º 29.77′	111º 20.73′	11.0	0.7	10	86	1	0.06
180930	04:04:37.68	40º 42.10′	112º 03.65′	9.4	***	13	102	3	0.15
180930	04:04:39.18	40º 42.06′	112º 03.37′	8.1	1.2W	29	52	3	0.17
180930	22:38:02.34	40º 53.56′	111º 36.37′	6.8*	1.6	15	109	14	0.14

number of earthquakes = 302

* 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
September 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			
BCS	Brigham City Maintenance Shop Brigham City, UT	EN[ZEN]	3	UU	41° 30.71′	112° 01.98′	1303	EpiSensor	K2	Digital	ANSS
BCU	Brigham City, UT	EN[ZEN]	3	UU	41° 30.74′	111° 58.93′	1676	EpiSensor	K2	Digital	ANSS
BCW	Book Cliffs West, UT	EHZ	1	UU	39° 43.82′	110° 44.55′	2614	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BEI	Bear River Range, ID	EHZ	1	UU	42° 07.00′	111° 46.94′	1859	L4C	PSN	Analog	USGS
BES	Bates Elementary School Ogden, UT	EN[ZEN]	3	UU	41° 19.10′	111° 57.26′	1455	EpiSensor	K2	Digital	ANSS
BGMT	Barton Gulch, MT	EHZ	1	MB	45° 14.00′	112° 02.43′	2172	*	*	Analog	MBMT
BGU	Big Grassy Mountain, UT	EN[ZEN]	3	UU	40° 55.53′	113° 01.79′	1640	EpiSensor	Q330	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
BHU	Blowhard Mountain, UT	EH[ZEN]	3	UU	37° 35.63′	112° 51.72′	3250	S13	PSN	Analog	Utah

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
BHUT	Beaver High School, UT	EN[ZEN]	3	UU	38° 16.61′	112° 38.42′	1799	PA-23	SMART-24	Digital	Utah
BMUT	Black Mountain, UT	EHZ	1	UU	41° 57.49′	111° 14.05′	2243	S13	PSN	Analog	USGS
BOZ	Bozeman, MT	BH[ZEN]	3	US	45° 38.82′	111° 37.78′	1589	*	*	Digital	USGS
BRPU	Butcher Ranch, Price, UT	HH[ZEN]	3	UU	39° 28.38′	110° 44.40′	1687	Trillium 240	Q330	Digital	Utah
		EN[ZEN]	3					EpiSensor			
BRWY	Blue Rim, WY	HH[ZEN]	3	UU	41° 37.32′	109° 30.19′	2098	Trillium 120	Centaur	Digital	Utah
BSS	Butlerville Substation Salt Lake City, UT	EN[ZEN]	3	UU	40° 37.45′	111° 49.37′	1411	EpiSensor	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			
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			

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
CWR	Coldwater Ranch, Paradise, UT	EN[ZEN]	3	UU	41° 34.90′	111° 46.89′	1837	Applied Mems	ANSS-130	Digital	ANSS
CWU	Camp Williams, UT	EHZ	1	UU	40° 26.75′	112° 06.13′	1945	L4C	PSN	Analog	USGS
DAU	Daniels Canyon, UT	EHZ	1	UU	40° 24.75′	111° 15.35′	2771	S13	PSN	Analog	USGS
DBD	Des Bee Dove, UT	EHZ	1	UU	39° 18.82′	111° 05.55′	2265	L4C	PSN	Analog	Utah
DCM	Dugout Coal Mine, UT	EHZ	1	UU	39° 41.70′	110° 35.00′	2537	L4C	Basalt	Digital	Utah
		EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	EHZ	1	UU	40° 24.82′	111° 31.61′	1829	L4C	PSN	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	EN[ZEN]	3	UU	40° 43.61′	111° 57.65′	1282	Applied Mems	ANSS-130	Digital	ANSS
DUG	Dugway, UT	BH[ZEN]	3	US	40° 11.70′	112° 48.80′	1477	STS-2	Q330	Digital	USGS
DVCI	Devils Canyon, ID	HH[ZEN]	3	IE	44° 22.99′	114° 02.31′	1997	Trillium 120	Q330	Digital	INL
DWU	Dry Willow, UT	EHZ	1	UU	38° 06.32′	112° 59.85′	2270	S13	PSN	Analog	Utah
ECRI	Eagle Creek, ID	EHZ	1	IE	43° 03.24′	111° 22.26′	2086	*	*	Digital	INL
ECUT	Ebbs Canyon, Scipio, UT	HH[ZEN]	3	UU	39° 10.30′	112° 07.99′	2136	Trillium 120	Centaur	Digital	Utah
EKU	East Kanab, UT	EHZ	1	UU	37° 04.48′	112° 29.81′	1829	S13	PSN	Analog	Utah
ELE	East Layton Elementary School, East Layton, UT	EN[ZEN]	3	UU	41° 04.84′	111° 55.09′	1444	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
		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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
GAWY	Genesis Alkali Granger, WY	HH[ZEN]	3	UU	41° 44.43′	109° 51.13′	2011	Trillium 120	Centaur	Digital	Utah
GBI	Big Grassy Butte, ID	EHZ	1	IE	43° 59.22′	112° 03.78′	1541	*	*	Digital	INL
GCAZ	Grand Canyon, AZ	EHZ	1	AR	36° 03.51′	112° 11.02′	2072	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	EN[ZEN]	3	UU	40° 36.04′	112° 28.48′	1320	Applied Mems	ANSS-130	Digital	ANSS
GMU	Granite Mountain, UT	EH[ZEN]	3	UU	40° 34.53′	111° 45.79′	1829	S13	PSN	Analog	USGS
GRRI	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
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								
HVU	Hansel Valley, UT	HH[ZEN]	3	UU	41° 46.78′	112° 46.50′	1609	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					EpiSensor			

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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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			USGS
MSU	Marysvale, UT	EHZ	1	UU	38° 30.74′	112° 10.63′	2105	18300	PSN	Analog	Utah
MTPU	Mt. Pierson, UT	EN[ZEN]	3	UU	38° 02.49′	112° 11.06′	3112	EpiSensor	Q330	Digital	Utah
		HH[ZEN]	3					Trillium 120			
MTUT	Morton Thiokol, UT	EHZ	1	UU	41° 42.55′	112° 27.28′	1373	L4C	PSN	Analog	USGS
MVCO	Mesa Verde, CO	BH[ZEN]	3	US	37° 12.62′	108° 29.92′	2170	STS-2	Q330	Digital	ANSS
MVU	Marysvale, UT	BH[ZEN]	3	LB	38° 30.22′	112° 12.74′	2240	*	*	Digital	Sandia
NAI	North Antelope Island, UT	EN[ZEN]	3	UU	41° 00.97′	112° 13.68′	1472	EpiSensor	K2	Digital	ANSS
NAIU	North Antelope Island, UT	EHZ	1	UU	41° 00.97′	112° 13.68′	1472	L4C	PSN	Analog	USGS
NLU	North Lily Mine, UT	EN[ZEN]	3	UU	39° 57.29′	112° 04.50′	2036	Episensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					Trillium 120			
NMU	North Mineral Mountain, UT	EH[ZEN]	3	UU	38° 30.99′	112° 51.00′	1853	S13	PSN	Analog	Utah
NOQ	North Oquirrh Mountains, UT	EN[ZEN]	3	UU	40° 39.16′	112° 07.26′	1628	Episensor	K2	Digital	ANSS
		HH[ZEN]	3					Trillium 120	ANSS-130	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	K2	Digital	ANSS
OF2	Ogden Fire Station º 2 Ogden, UT	EN[ZEN]	3	UU	41° 13.70′	111° 56.92′	1358	EpiSensor	K2	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
OPS	Ogden Public Safety Building, Ogden, UT	EN[ZEN]	3	UU	41° 13.72′	111° 58.54′	1317	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			
PTI	Pocatello, ID	EHZ	1	IE	42° 52.20′	112° 22.21′	1670	*	*	Digital	INL
PTU	Portage, UT	EHZ	1	UU	41° 55.76′	112° 19.48′	2192	L4C	Basalt	Digital	ANSS
		EN[ZEN]	3					EpiSensor			
PV05	E. Island Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 08.87′	108° 50.08′	2142	*	*	Digital	USBR
PV11	Davis Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 17.96′	108° 52.33′	1881	*	*	Digital	USBR
PV15	Pinto Mesa, Paradox Basin, CO	HH[ZEN]	3	RE	38° 20.51′	108° 28.66′	2280	*	*	Digital	USBR
PV21	Cone Mountain, Paradox Basin, CO	HH[ZEN]	3	RE	38° 33.67′	108° 58.50′	2235	*	*	Digital	USBR
Q12A	Willow Creek Ranch, Ely, NV	HH[ZEN]	3	NN	39° 02.40′	114° 19.88′	1625	Trillium 120	Q330	Digital	UNR
QBHW	Bridle Trail Rd, Draper, UT	HN[ZEN]	3	UU	40° 30.23′	111° 51.35′	1400	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCSP	White Pine Dr., Tooele, UT	HN[ZEN]	3	UU	40° 32.75′	112° 16.56′	1538	Gsig-AC63	Gsig-GMS	Digital	ANSS
QCWC	E 2100 S, Salt Lake City, UT	HN[ZEN]	3	UU	40° 43.54′	111° 49.94′	1373	Gsig-AC63	Gsig-GMS	Digital	ANSS
QDPS	Dept of Public Safety Univ. of Utah, Salt Lake City, UT	HN[ZEN]	3	UU	40° 45.60′	111° 50.46′	1460	Gsig-AC63	Gsig-GMS	Digital	ANSS
QFTG	N 450 E St., Springville, UT	HN[ZEN]	3	UU	40° 10.42′	111° 36.12′	1395	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJHW	Red Rock Ranch, Teton County, WY	HN[ZEN]	3	UU	43° 34.99′	110° 24.65′	2169	Gsig-AC63	Gsig-GMS	Digital	ANSS
QJMH	S 900 E, Salt Lake City, UT	HN[ZEN]	3	UU	40° 42.21′	111° 51.97′	1312	Gsig-AC63	Gsig-GMS	Digital	ANSS

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
QJOT	Whileaway Rd., Snyderville, UT	HN[ZEN]	3	UU	40° 44.50′	111° 41.68′	1977	Gsig-AC63	Gsig-GMS	Digital	ANSS
QKSL2	Lehi, UT	HN[ZEN]	3	UU	40° 15.98′	111° 50.07′	1371	Gsig-AC63	Gsig-GMS	Digital	ANSS
QLIN	884 E 490 N, 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
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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SCUT	Santa Clara, UT	EN[ZEN]	3	UU	37° 07.69′	113° 38.68′	837	EpiSensor	Etna	Digital	Utah
SCY	Salem City Yard, Salem, UT	EN[ZEN]	3	UU	40° 03.47′	111° 41.14′	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	EN[ZEN]	3	UU	38° 16.61′	112° 38.42′	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	EHZ	1	UU	39° 10.94′	111° 38.68′	2357	18300	PSN	Analog	USGS
SHP	Sheep Range, NV	HH[ZEN]	3	NN	36° 30.33′	115° 09.61′	1590	Trillium 120	ANSS-130	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	EN[ZEN]	3	UU	40° 33.37′	111° 56.34′	1356	Applied Mems	ANSS-130	Digital	ANSS
SMAZ	Slide Mountain, AZ	EHZ	1	AR	36° 19.29′	113° 10.14′	2200	*	*	Analog	NAU
SNO	Snow College, UT	EHZ	1	UU	39° 19.18′	111° 32.33′	2503	Ranger	PSN	Analog	Utah
SNOW	Snowking Mountain, WY	BH[ZEN]	3	IW	43° 27.75′	110° 45.31′	2390	3ESP	RT-130	Digital	ANSS
SNUT	Stansbury North, UT	EHZ	1	UU	40° 53.10′	112° 30.52′	1652	18300	PSN	Analog	USGS
		EHZ	1					EpiSensor	Basalt	Digital	
		EN[ZEN]	3								
SPR	Wildlife Resource Center Springville, UT	EN[ZEN]	3	UU	40° 10.94′	111° 36.71′	1379	EpiSensor	K2	Digital	ANSS
SPR3	Spring Creek 3, NV	HH[ZEN]	3	NN	38° 59.93′	114° 19.88′	2815	Trillium 120	RT-130	Digital	UNR
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	EN[ZEN]	3	UU	40° 38.97′	112° 18.95′	1293	Applied Mems	ANSS-130	Digital	ANSS
SPU	South Promontory Point, UT	EN[ZEN]	3	UU	41° 18.52′	112° 26.95′	2086	EpiSensor	ANSS-130	Digital	ANSS
		HH[ZEN]	3					3ESP			
SRU	San Rafael Swell, UT	EHZ	1	UU	39° 06.65′	110° 31.43′	1804	S13	PSN	Analog	Utah, ANSS, IRIS
		HH[ZEN]	3					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	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

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
TMI	Taylor Mountain, ID	EHZ	1	IE	43° 18.30′	111° 55.08′	2179	*	*	Digital	INL
TMU	Trail Mountain, UT	HH[ZEN]	3	UU	39° 17.79′	111° 12.49′	2731	Observer	ANSS-130	Digital	Utah, ANSS
		EN[ZEN]	3					EpiSensor			
TPAW	Teton Pass, WY	BH[ZEN]	3	IW	43° 29.41′	110° 57.04′	2512	3ESP	RT-130	Digital	ANSS
TPH	Tonopah, NV	BH[ZEN]	3	LB	38° 04.50′	117° 13.35′	1883	3ESP	Q330	Digital	Sandia
TPMT	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
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	

SEED Station	Location	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
		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			
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					Titan			
YMR	Madison River (YNP), WY	HH[ZEN]	3	WY	44° 40.12′	110° 57.90′	2149	Trillium 120	Q330	Digital	USGS
		EN[ZEN]	3					Titan			
YMS	Mount Sheridan (YNP), WY	EHZ	1	WY	44° 15.84′	110° 31.67′	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	EHZ	1	WY	44° 58.42′	110° 41.33′	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	HH[ZEN]	3	WY	45° 00.46′	110° 00.48′	2343	Compact	ANSS-130	Digital	USGS
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

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

* Station operated by another agency and recorded as part of University of Utah regional seismic network

Network Statistics: 967 data channels from 313 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	Kinemetrics 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	Kinemetrics FBA-23 accelerometer
EpiSensor	Kinemetrics 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	Kinemetrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinemetrics 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	Kinemetrics 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 JULY 1–SEPTEMBER 30, 2018

July 19	ECUT HH[ZEN] installed
August 16	GAWY HH[ZEN] installed