

EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

January 1 – March 31, 2010

Prepared by the University of Utah Seismograph Stations and funded by
the U.S. Geological Survey (Cooperative Agreement No. G10AC00085) and
by the State of Utah

May 12, 2010

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 (F. W. Klein, 1978, U.S. Geological Survey Open-File Report 78-694) 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 in north-central Utah, above magnitude 2.0 in central and southwestern Utah, and above magnitude 3.0 in southeastern Utah and the eastern Uinta Basin. *These data are preliminary—both the locations and magnitudes are subject to revision. The catalog may include some artificial seismic events not yet identified.*

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

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was MST through 02:00 (2:00 a.m.) on March 14 and MDT thereafter.
- Earthquake location coordinates in degrees and minutes of north latitude and west longitude, and depth in kilometers.
- "*" 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 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 root-mean-square of the travel-time residuals in seconds:

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

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

EARTHQUAKE ACTIVITY IN THE UTAH REGION
January 1 – March 31, 2010

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During the three-month period January 1 through March 31, 2010, the University of Utah Seismograph Stations (UUSS) located 169 earthquakes within the Utah region (Figure 1). The total includes four earthquakes in the magnitude 3 range, and 26 earthquakes in the magnitude 2 range. Earthquakes of magnitude 3.0 or larger (plotted as stars and specifically labeled on Figure 1) are listed below. Five earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 2010 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/EQCENTER/QUARTERLY/quarterly.htm>.

ShakeMaps—computer maps of the ground shaking produced by an earthquake—are automatically produced by UUSS for earthquakes of magnitude 3 and larger within the Wasatch Front urban area. On November 30, 2005, UUSS extended its capability for producing ShakeMaps to the entire Utah region for shocks of magnitude 4.0 or larger; in the greater Wasatch Front area, outside the urban corridor, the threshold is magnitude 3.5. On November 26, 2007, with the addition of the Transportable Array (TA) stations of USArray, a component of the National Science Foundation's EarthScope experiment, UUSS lowered the magnitude threshold for the Utah region to magnitude 3.5. The ShakeMaps are accessible on the UUSS Web page at <http://www.seis.utah.edu/shake>. Earthquakes during 2009 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://pasadena.wr.usgs.gov/shake/imw>. We urge anyone who feels an earthquake to report their observations on this interactive Web site; felt information is available by zip code on the CIIM site or can be obtained from UUSS directly.

Earthquakes of Magnitude 3.0 or Larger

M _L 4.1	January 4	09:24 MST	6 mi SSE of Cedar City, UT (felt, CIIM intensity map, ShakeMap , see Table 1)
M _L 3.3	January 4	21:55 MST	6 mi SSE of Cedar City, UT (felt, CIIM intensity map, ShakeMap , see Table 1)
M _L 3.0	January 23	08:48 MST	1 mi ESE of Goshen, UT (felt, CIIM intensity map, ShakeMap, see Table 1)
M _L 3.0	February 12	15:37 MST	8 mi NNE of Colorado City, AZ (felt, CIIM intensity map, ShakeMap, see Table 1)

Other Notable Seismicity

During the report period, there was no notable spatial clustering 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.

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 include a total of 97 located shocks ($0.6 \leq M \leq 2.8$) that occurred throughout the report period.

Seismicity of the Utah Region January 1, 2010 - March 31, 2010

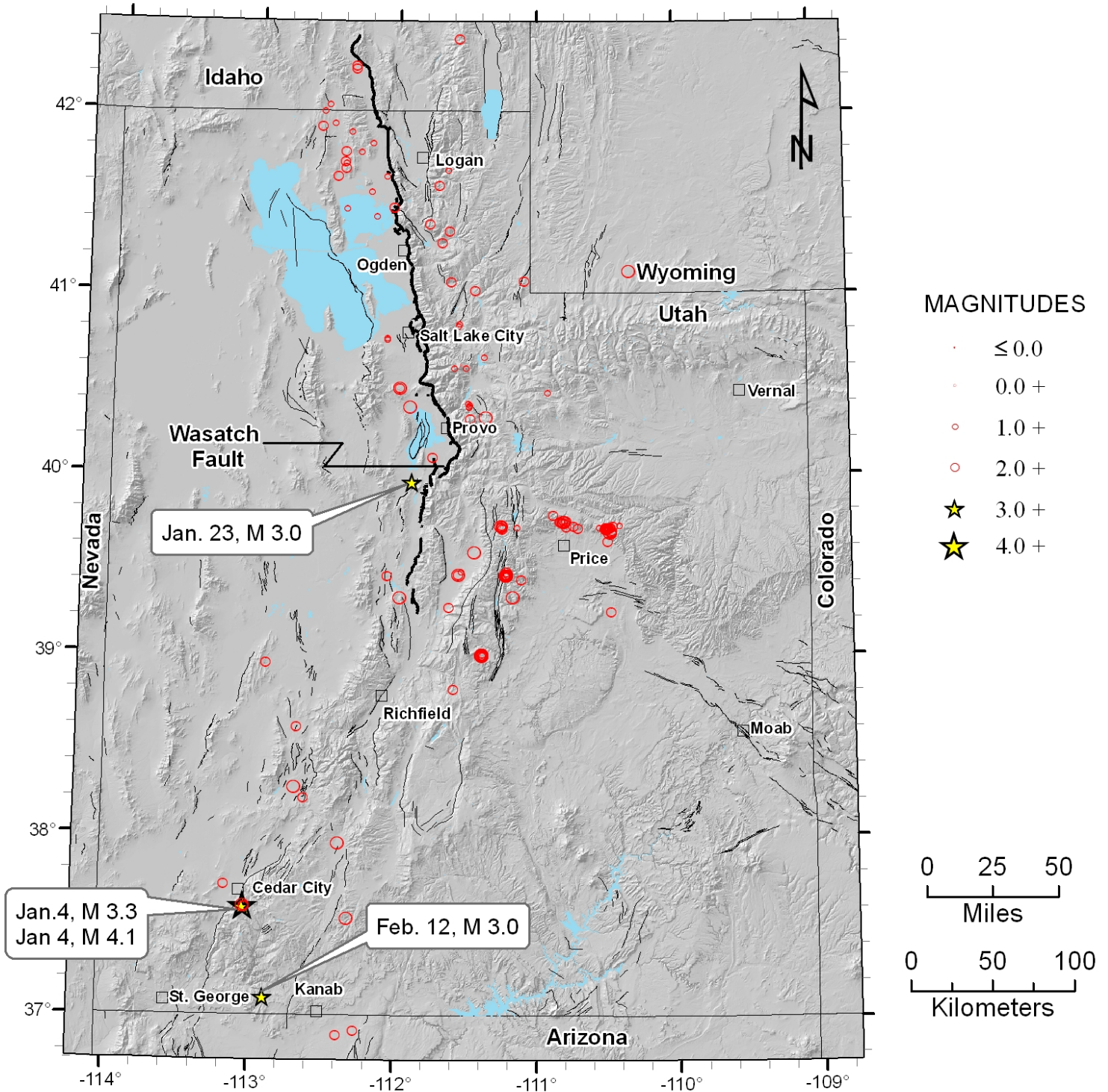


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local date and size.

Table 1
EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION
January 1, 2010 to March 31, 2010

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 04	09:24 MST 16:24 UTC	Utah. <i>CIIM</i> . Felt (III) at Cedar City (?), UT and (II) at New Harmony, La Verkin, Central, St. George, Monroe (?), UT, Las Vegas (?), NV and Sedona (?), AZ.	37° 35.92'	113° 02.33'	M _L 4.1
January 04 January 05	21:55 MST 04:55 UTC	Utah. <i>CIIM</i> . Felt (II) at Cedar City and Hurricane, UT.	37° 35.58'	113° 02.77'	M _L 3.3
January 05	01:08 MST 08:08 UTC	Utah. <i>CIIM</i> . Felt (IV) at Woods Cross (?), UT, (III) at Saratoga Springs, Lehi and Herriman, UT and (II) at Eagle Mountain, American Fork, Draper, Pleasant Grove, Lindon, Orem, Alpine, Provo, Salt Lake City and Ogden (?), UT.	40° 21.68'	111° 54.65'	M _L 2.9
January 23	08:48 MST 15:48 UTC	Utah. <i>CIIM</i> . Felt (III) at Fort Duchesne (?), UT and (II) at Payson, Santaquin, Lehi and Magna (?), UT.	39° 56.82'	111° 53.45'	M _L 3.0
February 12	15:37 MST 22:37 UTC	Utah. <i>CIIM</i> . Felt (II) at Monroe (?), UT and Las Vegas (?), NV.	37° 05.51'	112° 53.54'	M _L 3.0

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

‡ *CIIM* indicates the availability of a Community Internet Intensity Map (<http://pasadena.wr.usgs.gov/shake/imw/archives.html>), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking (<http://www.seis.utah.edu/shake/archive>), 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's (1) CIIM reports and/or (2) PDE Monthly (or) Weekly Listing Files (http://neic.usgs.gov/neis/data_services/ftp_files.html). For a complete list of reported information see the *CIIM* website.

§ Richter local magnitude (M_L) or coda magnitude (M_C) determined by UUSS. If labeled "NEIS," data are from the National Earthquake Information Service of the USGS.

Utah Regional/Urban Seismic Network March 31, 2010

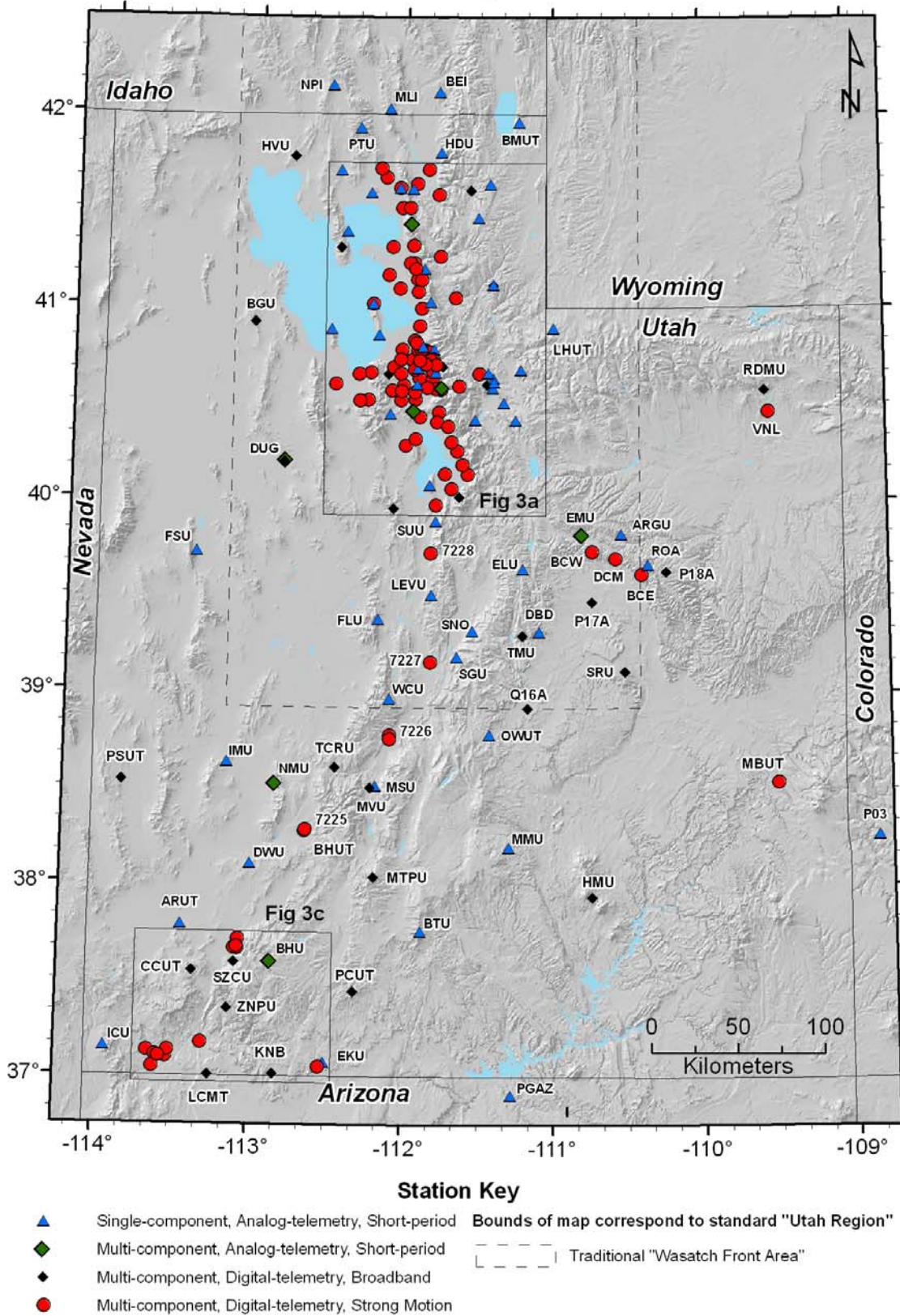


Figure 2

Table 2. Earthquakes in the Utah Region: January 1–March 31, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100101	17:16:19.10	38° 59.58'	111° 23.47'	0.0*	2.4W	24	74	24	0.16
100101	23:43:06.51	38° 59.40'	111° 23.49'	1.4*	2.1W	21	74	24	0.14
100102	11:37:40.70	39° 25.81'	112° 03.76'	6.9	1.2	13	60	11	0.16
100102	18:57:52.76	39° 41.83'	110° 29.07'	7.9	1.1	8	131	11	0.11
100102	22:00:35.43	39° 41.74'	110° 33.21'	7.1*	0.6	5	157	14	0.07
100103	05:53:00.91	40° 44.15'	112° 04.85'	11.2	0.7	14	69	16	0.12
100103	12:35:46.68	39° 41.48'	110° 29.97'	0.7	1.4	14	120	7	0.21
100103	17:32:48.94	41° 49.11'	112° 11.85'	3.9*	0.7	9	79	16	0.11
100103	19:03:12.69	39° 41.38'	110° 30.64'	2.3	1.2	6	115	6	0.13
100104	03:23:19.85	39° 41.46'	111° 14.71'	7.0*	1.2	9	119	39	0.09
100104	12:16:50.02	39° 41.71'	110° 29.59'	3.3*	0.9	8	126	12	0.10
100104	16:24:03.11	37° 35.92'	113° 02.33'	6.8	4.1W	25	49	8	0.39
100104	19:51:34.16	37° 35.97'	113° 02.85'	1.4*	2.6W	17	54	17	0.36
100104	20:26:12.74	41° 20.08'	111° 38.01'	5.2*	1.5	20	96	18	0.18
100104	23:18:42.10	39° 41.60'	110° 29.47'	3.5*	1.5	8	125	11	0.08
100105	04:55:24.70	37° 35.58'	113° 02.77'	7.2*	3.3W	16	53	17	0.28
100105	08:08:35.71	40° 21.68'	111° 54.65'	3.4	2.9W	43	44	5	0.22
100105	09:36:08.79	39° 41.70'	110° 29.54'	2.8*	1.4	8	126	12	0.07
100105	18:16:56.14	38° 59.61'	111° 23.29'	1.3*	2.4W	19	74	24	0.14
100105	21:24:30.73	39° 41.50'	110° 29.54'	3.2*	1.1	7	124	11	0.07
100106	02:42:39.37	39° 41.57'	110° 29.47'	3.7*	1.2	8	125	11	0.07
100106	03:42:57.94	39° 25.87'	111° 13.08'	3.1*	2.1	9	80	15	0.13
100106	05:39:16.66	39° 41.64'	110° 29.46'	3.7*	1.2	7	125	11	0.07
100106	10:29:26.80	39° 41.27'	110° 29.80'	3.0*	0.9	6	119	11	0.04
100106	10:34:03.59	39° 41.84'	110° 28.70'	10.2	1.2	7	134	11	0.11
100106	12:33:49.45	38° 59.61'	111° 23.36'	1.2*	1.7W	15	74	24	0.10
100106	13:16:24.69	39° 41.83'	110° 28.63'	9.0	0.8	9	134	10	0.10
100106	20:59:39.85	39° 43.33'	110° 48.76'	2.3*	1.6	9	125	10	0.13
100106	21:45:42.25	38° 59.73'	111° 23.37'	4.1*	2.4W	17	74	24	0.12
100106	23:14:03.33	39° 41.50'	110° 30.19'	3.2*	1.0	6	119	12	0.07
100106	23:27:51.09	39° 15.29'	111° 37.35'	3.3	1.7W	16	62	8	0.18
100106	23:57:23.08	39° 41.44'	110° 28.61'	5.9	0.9	6	130	10	0.12
100107	05:19:17.92	39° 41.68'	110° 29.50'	3.0*	1.4	7	126	11	0.10
100107	19:25:13.58	39° 41.42'	110° 29.92'	2.7*	0.9	7	121	12	0.04
100107	21:43:15.25	38° 59.32'	111° 22.63'	2.8*	1.7	11	112	24	0.13
100108	07:46:27.56	39° 26.06'	111° 12.93'	0.1*	1.8	19	50	15	0.18
100109	06:11:20.73	40° 35.81'	111° 32.40'	1.7	-0.1	10	148	8	0.09
100109	08:01:49.46	39° 41.75'	110° 29.17'	3.8*	1.1	6	129	11	0.15
100109	10:35:28.76	40° 44.58'	112° 04.65'	2.1	0.9	10	109	4	0.14
100109	11:31:04.77	39° 42.37'	110° 27.40'	12.7	1.6	12	152	9	0.21
100109	15:34:05.06	39° 18.66'	111° 10.12'	1.7	2.1W	9	92	4	0.26
100109	17:18:18.86	39° 41.48'	110° 29.22'	3.2*	1.0	7	126	11	0.12
100109	18:59:12.85	39° 41.50'	110° 30.11'	1.7	1.2	9	120	7	0.21
100109	22:20:30.66	39° 41.22'	110° 30.29'	1.7	1.5	10	115	7	0.21
100109	23:37:09.36	37° 35.70'	113° 02.01'	4.0*	1.2	8	74	16	0.13

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100110	09:02:55.22	39° 41.36'	110° 30.11'	1.8	1.2	10	119	7	0.18
100110	15:11:30.78	40° 38.25'	111° 22.76'	6.9	0.0	7	182	2	0.05
100110	21:43:35.49	39° 41.10'	110° 30.18'	2.2	1.2	7	115	7	0.21
100111	02:38:09.62	39° 42.25'	111° 15.42'	1.0	2.8W	33	62	8	0.27
100111	07:25:58.06	39° 41.20'	110° 30.14'	1.7	0.9	9	116	7	0.21
100111	12:39:47.89	39° 41.70'	110° 30.47'	2.2	1.0	7	119	7	0.17
100111	22:31:52.17	39° 41.42'	110° 29.87'	6.7	1.2	9	121	11	0.20
100111	23:07:11.98	38° 56.72'	112° 54.95'	5.9*	1.2	7	124	41	0.10
100112	02:41:22.39	40° 34.72'	111° 30.59'	6.3	0.7	15	84	6	0.13
100112	05:27:20.67	39° 41.57'	110° 30.07'	3.5*	1.1	8	121	12	0.14
100112	20:52:50.24	38° 59.59'	111° 23.48'	1.2*	2.5W	19	74	24	0.19
100114	11:23:22.37	39° 26.26'	111° 33.57'	1.1*	1.6	17	78	23	0.18
100114	11:44:39.90	39° 26.19'	111° 33.47'	1.4*	2.2W	23	78	23	0.22
100114	13:05:21.69	39° 41.56'	110° 29.19'	5.7	0.8	5	127	11	0.04
100114	20:09:05.36	39° 42.52'	110° 24.70'	16.8	0.9	6	185	7	0.09
100115	10:32:22.31	39° 27.18'	111° 32.36'	10.3	0.4	6	145	15	0.08
100117	17:34:32.80	39° 41.60'	110° 29.68'	3.3*	1.1	5	124	12	0.04
100117	19:13:25.77	39° 41.63'	110° 29.14'	7.1	1.4	6	128	11	0.13
100117	22:43:04.72	39° 41.69'	110° 42.40'	1.7	1.1	7	156	5	0.68
100118	00:10:54.46	39° 26.37'	111° 12.13'	5.0*	1.2	6	146	16	0.16
100118	05:57:59.22	39° 00.28'	111° 23.01'	7.2*	1.2W	9	107	25	0.14
100120	00:13:05.22	39° 41.56'	110° 29.85'	1.7	0.9	8	122	7	0.17
100120	09:02:06.20	40° 49.42'	111° 33.62'	8.6*	0.7	17	67	22	0.14
100120	17:12:36.89	39° 43.61'	110° 48.97'	5.1	1.1	5	200	10	0.19
100121	20:28:34.81	40° 05.05'	111° 44.87'	9.3	1.1	7	165	7	0.10
100122	03:12:42.13	38° 59.65'	111° 23.55'	3.9*	2.2W	19	74	24	0.13
100123	15:48:45.53	39° 56.82'	111° 53.45'	1.1*	3.0W	31	58	11	0.26
100125	09:57:46.57	39° 41.95'	111° 15.08'	1.6	1.3	11	71	8	0.28
100125	18:12:58.67	38° 48.24'	111° 35.28'	8.7*	1.6	13	122	42	0.18
100126	01:32:38.42	41° 38.09'	112° 05.78'	7.8	0.5	11	97	4	0.16
100127	20:33:03.73	38° 59.35'	111° 23.46'	2.9*	2.3W	19	74	24	0.12
100128	04:25:04.50	41° 55.64'	112° 28.83'	5.6*	0.5	6	248	13	0.20
100128	10:15:17.09	38° 59.14'	111° 22.74'	2.7*	1.5	9	111	23	0.15
100128	14:10:59.41	38° 59.61'	111° 23.86'	4.3*	2.3W	20	74	24	0.12
100128	23:19:02.94	40° 21.99'	111° 29.37'	1.8	0.4	10	199	6	0.24
100129	08:32:21.88	40° 22.41'	111° 29.05'	3.2	0.3	6	195	6	0.10
100130	09:21:52.35	36° 53.40'	112° 23.39'	16.0	1.7	11	133	23	0.27
100130	15:46:32.50	38° 59.37'	111° 23.66'	9.0*	1.8W	13	106	24	0.09
100130	20:11:37.57	41° 03.61'	111° 05.53'	17.6	1.2	14	190	21	0.26
100201	02:54:10.67	41° 16.17'	111° 41.24'	8.8*	1.1	17	91	23	0.19
100204	00:52:23.76	40° 28.08'	111° 59.04'	0.9	1.4	9	92	3	0.24
100206	10:16:47.56	37° 57.07'	112° 23.64'	1.3*	2.1	18	70	51	0.20
100206	13:55:57.55	39° 42.08'	111° 15.23'	1.7	1.5	12	72	8	0.25
100206	15:50:34.91	41° 35.08'	111° 42.47'	9.4	1.0	16	85	12	0.14
100207	01:48:35.91	39° 42.17'	110° 47.15'	3.0	1.4	11	111	5	0.59

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DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100207	14:20:52.69	38° 59.53'	111° 23.21'	12.2	1.8	11	74	24	0.11
100211	05:52:14.59	39° 13.91'	110° 28.15'	15.6	1.1	12	117	14	0.15
100212	11:35:21.23	40° 18.35'	111° 21.93'	6.1*	2.8W	43	90	15	0.18
100212	22:37:09.51	37° 05.51'	112° 53.54'	11.9	3.0W	11	102	10	0.35
100215	23:07:00.59	39° 27.17'	111° 12.80'	2.3*	1.9W	17	51	17	0.11
100215	23:14:19.46	41° 33.01'	112° 12.23'	1.6	0.3	10	91	6	0.11
100218	15:34:58.64	39° 26.09'	111° 13.12'	2.6*	1.8	7	118	15	0.16
100218	15:50:28.97	41° 06.85'	110° 20.01'	7.5*	2.4W	8	172	88	0.20
100218	22:50:05.30	39° 41.82'	110° 28.16'	2.2	1.6	10	138	10	0.19
100219	07:54:04.90	40° 21.65'	111° 29.35'	7.3	0.7	19	124	7	0.18
100220	08:42:42.03	41° 42.92'	112° 24.02'	9.8	1.4	13	114	5	0.16
100220	10:24:18.91	41° 46.08'	112° 17.11'	6.8*	0.5	6	105	16	0.15
100220	11:22:58.75	41° 42.53'	112° 23.74'	10.2	0.6	11	104	5	0.18
100221	07:33:04.72	38° 11.99'	112° 38.13'	5.2*	1.9	9	84	33	0.23
100222	01:18:16.38	39° 25.98'	111° 13.34'	4.7*	1.6	14	85	15	0.16
100222	03:21:57.25	40° 26.47'	110° 55.40'	5.3*	0.9	8	249	28	0.24
100224	14:56:42.56	41° 24.89'	112° 10.07'	6.8*	0.5	5	157	16	0.04
100225	03:05:00.97	36° 54.77'	112° 16.05'	12.5*	1.6	9	127	27	0.29
100226	00:48:53.76	39° 40.85'	110° 27.65'	2.1	1.4	8	129	9	0.24
100226	08:28:10.42	41° 00.48'	111° 26.58'	6.7	1.1	20	95	12	0.22
100227	21:08:12.90	39° 40.16'	110° 27.90'	5.8	1.5	11	117	8	0.27
100227	23:20:20.02	39° 40.15'	110° 28.61'	0.7	2.1W	13	113	9	0.29
100228	04:00:36.59	41° 54.57'	112° 34.34'	7.5*	1.2	14	199	21	0.20
100228	16:03:55.60	41° 38.19'	112° 27.07'	4.2	1.8	17	175	8	0.16
100228	17:45:15.57	39° 43.95'	110° 47.17'	1.6	1.4	9	110	4	0.47
100302	03:09:28.73	41° 40.78'	112° 23.69'	6.8	1.1	16	117	6	0.21
100303	04:01:26.36	39° 33.63'	111° 26.82'	1.4*	2.0W	29	53	23	0.24
100303	18:04:17.53	41° 40.27'	111° 38.95'	11.2	0.9	12	81	10	0.13
100303	23:17:44.03	39° 40.06'	110° 27.87'	2.2	1.6	8	115	8	0.22
100304	00:02:53.67	38° 35.44'	112° 41.37'	0.3*	1.7	12	64	16	0.26
100304	00:46:32.62	39° 37.28'	110° 29.50'	12.0	1.2	5	219	7	0.18
100304	01:46:55.64	39° 41.92'	111° 08.48'	12.4	0.7	12	115	8	0.15
100304	07:43:47.04	39° 25.97'	111° 13.43'	2.4*	2.1	11	85	15	0.10
100304	10:43:03.82	39° 43.19'	110° 48.00'	0.1*	1.3	7	136	11	0.09
100304	21:24:28.49	41° 22.34'	111° 46.63'	2.2*	1.2	18	67	18	0.15
100305	06:22:00.44	39° 25.82'	111° 13.14'	6.4*	1.5	14	84	15	0.15
100305	13:22:16.52	37° 32.10'	112° 19.43'	0.1*	2.5W	14	125	47	0.24
100305	14:50:39.18	39° 43.82'	110° 48.50'	4.0	2.5W	15	70	9	0.20
100305	19:01:08.22	39° 46.01'	110° 52.96'	12.1	1.4	5	251	8	0.08
100306	14:23:07.31	39° 26.10'	111° 13.30'	3.2*	1.2	13	85	15	0.14
100306	20:16:20.36	39° 43.66'	110° 49.64'	3.6	1.4	7	207	10	0.19
100308	04:06:26.31	37° 43.03'	113° 10.76'	7.9*	1.8	9	115	24	0.22
100308	09:19:55.70	39° 40.35'	110° 27.88'	2.3	1.2	8	120	8	0.15
100308	20:44:07.44	42° 23.75'	111° 34.07'	3.3*	1.5	12	108	36	0.14
100309	05:18:23.92	39° 26.01'	111° 13.34'	4.9*	1.7	13	85	15	0.13

Table 2. Earthquakes in the Utah Region: January 1–March 31, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100310	22:22:31.87	39° 40.11'	110° 28.03'	2.2	1.5	6	116	8	0.21
100311	03:20:47.08	39° 26.09'	111° 12.86'	2.3*	1.9	12	83	15	0.18
100311	06:36:57.05	39° 25.81'	111° 13.18'	2.4*	1.5	10	84	15	0.10
100311	07:06:44.39	39° 25.92'	111° 13.51'	6.5*	1.7	17	58	15	0.16
100311	12:22:37.76	39° 25.45'	111° 13.34'	2.4*	1.4	12	59	14	0.16
100313	05:11:16.65	39° 40.00'	110° 28.04'	2.2	1.5	8	115	8	0.16
100314	00:47:47.23	41° 27.85'	112° 02.39'	3.7	1.0	10	179	7	0.10
100317	22:19:38.43	39° 26.06'	111° 12.98'	2.8*	1.9	10	120	17	0.11
100318	03:47:17.29	41° 27.42'	112° 23.18'	8.3	0.8	15	151	8	0.19
100318	15:11:25.11	42° 13.70'	112° 19.57'	5.1*	1.1	5	226	18	0.09
100318	18:58:59.00	41° 03.29'	111° 37.09'	11.0	1.3	16	57	19	0.23
100320	22:10:39.04	40° 28.02'	111° 59.30'	2.8	2.2W	30	60	3	0.15
100321	04:48:27.27	39° 44.19'	110° 48.44'	2.4	1.8W	10	112	9	0.18
100322	01:23:40.01	42° 14.67'	112° 19.54'	3.8*	1.0	8	232	19	0.22
100322	01:55:29.17	41° 52.93'	112° 21.26'	6.0	0.8	9	132	6	0.20
100322	19:19:51.86	40° 48.52'	111° 33.82'	12.3	0.7	8	123	21	0.16
100323	09:49:19.52	39° 43.80'	110° 50.05'	2.2	1.7W	14	57	9	0.23
100323	11:03:11.01	40° 17.82'	111° 28.50'	2.5*	1.4	9	176	14	0.14
100323	18:48:35.73	39° 26.08'	111° 12.69'	2.0*	1.4W	10	83	15	0.15
100324	04:52:37.32	40° 34.57'	111° 35.55'	10.4	0.5	11	123	14	0.16
100324	07:59:29.27	39° 26.03'	111° 12.74'	3.4*	1.6W	12	54	15	0.18
100324	12:01:06.19	39° 24.49'	111° 06.47'	2.8*	1.9	8	126	11	0.07
100325	04:20:37.10	39° 18.51'	111° 58.36'	2.1*	2.1W	17	59	19	0.17
100326	04:19:43.25	40° 22.91'	111° 29.50'	2.0	0.7	10	125	5	0.14
100326	09:17:02.87	38° 15.49'	112° 42.09'	6.9*	2.2	5	227	51	0.26
100326	10:36:47.78	39° 26.10'	111° 13.30'	3.7*	1.7	15	91	18	0.18
100326	15:50:49.52	39° 25.90'	111° 12.91'	5.7*	2.0	13	83	15	0.15
100326	23:16:09.23	39° 42.62'	111° 14.90'	1.9	1.7	9	117	9	0.20
100327	09:09:53.36	41° 59.73'	112° 33.54'	2.6*	0.8	8	269	21	0.20
100328	11:19:48.50	39° 42.38'	110° 44.11'	2.5*	1.4	7	165	13	0.18
100328	22:02:51.98	39° 26.03'	111° 12.72'	2.5*	1.9	12	83	15	0.10
100330	12:46:24.38	42° 01.77'	112° 31.09'	3.9*	0.7	5	143	13	0.13
100330	15:26:51.12	39° 25.93'	111° 12.80'	2.3*	1.6	14	83	15	0.12
100331	22:03:30.48	41° 46.35'	112° 23.80'	9.6	1.3	18	75	9	0.17

number of earthquakes = 169

* indicates poor depth control

W indicates Wood-Anderson data used for magnitude calculation

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
March 31, 2010

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
2272	Eastwood Elementary School Salt Lake City, UT	2272	HN[ZEN]	3	NP	40° 41.98'	111° 47.62'	1515	FBA23	Etna	Digital	NSMP, ANSS
2286	Roosevelt Elementary School Salt Lake City, UT	2286	HN[ZEN]	3	NP	40° 42.08'	111° 52.01'	1314	EpiSensor	K2	Digital	NSMP, ANSS
7208	SR 201/I-80 Bridge Array, Salt Lake City, UT	7208	EN[ZEN]	3	NP	40° 43.38'	111° 54.43'	1291	EpiSensor	K2	Digital	NSMP, ANSS
7212	Annex Bldg., Weber State University, Ogden, UT	7212	HN[ZEN]	3	NP	41° 11.75'	111° 56.50'	1422	EpiSensor	K2	Digital	NSMP, ANSS
7223	Dixie State College St. George, UT	7223	HN[ZEN]	3	NP	37° 06.02'	113° 33.94'	815	EpiSensor	Etna	Digital	NSMP, ANSS
7224	Southern Utah University Cedar City, UT	7224	HN[ZEN]	3	NP	37° 40.35'	113° 04.29'	1782	EpiSensor	Etna	Digital	NSMP, ANSS
7225	City Maintenance Yard Beaver, UT	7225	HN[ZEN]	3	NP	38° 17.01'	112° 38.32'	1808	EpiSensor	Etna	Digital	NSMP, ANSS
7226	UDOT IT Radio Shop Richfield, UT	7226	HN[ZEN]	3	NP	38° 45.43'	112° 05.26'	1616	FBA23	Etna	Digital	NSMP, ANSS
7227	City Maintenance Yard Gunnison, UT	7227	HN[ZEN]	3	NP	39° 09.35'	111° 49.17'	1568	EpiSensor	Etna	Digital	NSMP, ANSS
7228	Juab School District Nephi, UT	7228	HN[ZEN]	3	NP	39° 43.27'	111° 49.49'	1576	EpiSensor	Etna	Digital	NSMP, ANSS
7229	City Maintenance Shop Santaquin, UT	7229	HN[ZEN]	3	NP	39° 58.35'	111° 47.58'	1520	EpiSensor	Etna	Digital	NSMP, ANSS
7232	City Parks & Recreation Office Tremonton, UT	7232	HN[ZEN]	3	NP	41° 43.13'	112° 10.91'	1320	EpiSensor	Etna	Digital	NSMP, ANSS
AHI	Auburn, ID	AHID	BH[ZEN]	3	US	42° 45.92'	111° 06.02'	1960	*	*	Digital	USGS
ALP	Alpine Fire Station, Alpine, UT	ALP	EN[ZEN]	3	UU	40° 27.26'	111° 46.61'	1510	EpiSensor	K2	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
ALT	Alta City Offices, Alta, UT	ALT	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	AMF	EN[ZEN]	3	UU	40° 24.11'	111° 47.27'	1445	EpiSensor	K2	Digital	ANSS
ANMO	Albuquerque, NM	ANMO	BH[ZEN]	3	IU	34° 57.01'	106° 27.61'	1743	*	*	Digital	USGS
ARGU	Argyle Ridge, UT	ARGU	EHZ	1	UU	39° 49.37'	110° 32.62'	2828	S13	Masscomp	Analog	Utah
ARUT	Antelope Range, UT	ARUT	EHZ	1	UU	37° 47.28'	113° 26.42'	1646	L4C	Masscomp	Analog	Utah
AVE	Avenues, Salt Lake City, UT	AVE	EN[ZEN]	3	UU	40° 46.47'	111° 51.83'	1387	Applied Mems	ANSS-130	Digital	ANSS
BCE	Book Cliffs East, UT	BCE	EHZ	4	UU	39° 36.79'	110° 24.51'	2666	L4C	K2	Digital	Utah
			EN[ZEN]						EpiSensor			
BCS	Brigham City Maintenance Shop Brigham City, UT	BCS	EN[ZEN]	3	UU	41° 30.71'	112° 01.98'	1303	EpiSensor	K2	Digital	ANSS
BCU	Brigham City, UT	BCU	EN[ZEN]	3	UU	41° 30.74'	111° 58.93'	1676	EpiSensor	K2	Digital	ANSS
BCW	Book Cliffs West, UT	BCW	EHZ	4	UU	39° 43.82'	110° 44.55'	2614	L4C	K2	Digital	Utah
			EN[ZEN]						EpiSensor			
BEI	Bear River Range, ID	BEI	EHZ	1	UU	42° 07.00'	111° 46.94'	1859	L4C	Masscomp	Analog	USGS
BES	Bates Elementary School Ogden, UT	BES	EN[ZEN]	3	UU	41° 19.10'	111° 57.26'	1455	EpiSensor	K2	Digital	ANSS
BGMZ	Barton Gulch, MT	BGMT	EHZ	1	MB	45° 14.00'	112° 02.43'	2172	*	*	Analog	MBMT
BGU	Big Grassy Mountain, UT	BGU	EN[ZEN]	3	UU	40° 55.53'	113° 01.79'	1640	EpiSensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			
BHU	Blowhard Mountain, UT	BHU	EH[ZEN]	3	UU	37° 35.55'	112° 51.42'	3230	S13	Masscomp	Analog	Utah
BHUT	Beaver High School, UT	BHUT	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-	Digital	Utah
BMN	Battle Mountain, NM	BMN	BHZ	1	NN	40° 25.89'	117° 13.31'	1594	*	*	Digital	UNR
BMUT	Black Mountain, UT	BMUT	EHZ	1	UU	41° 57.49'	111° 14.05'	2243	S13	Masscomp	Analog	USGS
BON	Boundary Peak, NV	BONR	SHZ	1	NN	37° 57.31'	118° 18.10'	2582	*	*	Digital	UNR
BOZ	Bozeman, MT	BOZ	BH[ZEN]	3	US	45° 38.82'	111° 37.78'	1589	*	*	Digital	USGS
BSS	Butlerville Substation Salt Lake City, UT	BSS	EN[ZEN]	3	UU	40° 37.45'	111° 49.37'	1411	EpiSensor	K2	Digital	ANSS
BTU	Barney Top, UT	BTU	EHZ	1	UU	37° 45.34'	111° 52.46'	3235	S13	Masscomp	Analog	Utah
BW0	Boulder, WY	BW06	BH[ZEN]	3	US	42° 46.00'	109° 33.50'	2224	*	*	Digital	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
BYP	Brigham Young Park Salt Lake City, UT	BYP	EN[ZEN]	3	UU	40° 46.26'	111° 53.23'	1323	Applied Mems	ANSS-130	Digital	ANSS
BYU	Brigham Young University Provo, UT	BYU	EN[ZEN]	3	UU	40° 15.17'	111° 38.97'	1421	EpiSensor	K2	Digital	ANSS
BZMZ	Bozeman Pass, MT	BZMT	EHZ	1	MB	45° 38.89'	110° 47.80'	1905	*	*	Analog	MBMT
CAPU	Capitol, Salt Lake City, UT	CAP	EN[ZEN]	3	UU	40° 46.71'	111° 53.40'	1384	Applied Mems	ANSS-130	Digital	ANSS
CCPU	Cedar City Park, UT	CCPU	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
CCUT	Cedar City, UT	CCUT	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	CFS	EN[ZEN]	3	UU	40° 33.96'	112° 05.61'	1654	EpiSensor	K2	Digital	ANSS
CHS	Copper Hills High School, West Jordan, UT	CHS	EN[ZEN]	3	UU	40° 35.68'	112° 01.03'	1460	Applied Mems	ANSS-130	Digital	ANSS
COM	Craters of the Moon, ID	COMI	EHZ	1	IE	43° 27.72'	113° 35.64'	1890	*	*	Digital	INEEL
COY	Coyote Canyon, Tooele Valley, UT	COY	EN[ZEN]	3	UU	40° 39.56'	112° 14.34'	1572	Applied Mems	ANSS-130	Digital	ANSS
CRMZ	Chrome Mountain, MT	CRMT	EHZ	1	MB	45° 27.35'	110° 08.41'	2941	*	*	Analog	MBMT
CTU	Camp Tracy, UT	CTU	HH[ZEN]	3	UU	40° 41.55'	111° 45.02'	1731	40T	72A-07	Digital	USGS
CVH	Cedar City, Canyon View High School, UT	CVH	EN[ZEN]	3	UU	37° 42.91'	113° 03.85'	1724	PA-23	SMART-24	Digital	Utah
CWR	Coldwater Ranch, Paradise, UT	CWR	EN[ZEN]	3	UU	41° 34.90'	111° 46.89'	1837	Applied Mems	ANSS-130	Digital	ANSS
CWU	Camp Williams, UT	CWU	EHZ	1	UU	40° 26.75'	112° 06.13'	1945	L4C	Masscomp	Analog	USGS
DAU	Daniels Canyon, UT	DAU	EHZ	1	UU	40° 24.75'	111° 15.35'	2771	S13	Masscomp	Analog	USGS
DBD	Des Bee Dove, UT	DBD	EHZ	1	UU	39° 18.82'	111° 05.55'	2265	L4C	Masscomp	Analog	Utah
DCM	Dugout Coal Mine, UT	DCM	EHZ	1	UU	39° 41.70'	110° 35.00'	2537	L4C	K2	Digital	Utah
			EN[ZEN]	3					EpiSensor			
DCU	Deer Creek Reservoir, UT	DCU	EHZ	1	UU	40° 24.82'	111° 31.61'	1829	L4C	Masscomp	Analog	USGS
DOT	Utah Dept. of Transportation Region II Offices, Salt Lake City, UT	DOT	EN[ZEN]	3	UU	40° 43.61'	111° 57.65'	1282	Applied Mems	ANSS-130	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
DUG	Dugway, UT	DUG	BH[ZEN]	3	US	40° 11.70'	112° 48.80'	1477	*	*	Digital	USGS
			EH[ZEN]	6	UU				S13	Masscomp	Analog	Utah, USGS
			EL[ZEN]									
DWU	Dry Willow, UT	DWU	EHZ	1	UU	38° 06.32'	112° 59.85'	2270	S13	Masscomp	Analog	Utah
ECR	Eagle Creek, ID	ECRI	EHZ	1	IE	43° 03.24'	111° 22.26'	2086	*	*	Digital	INEEL
EKU	East Kanab, UT	EKU	EHZ	1	UU	37° 04.48'	112° 29.81'	1829	S13	Masscomp	Analog	Utah
ELE	East Layton Elementary School, East Layton, UT	ELE	EN[ZEN]	3	UU	41° 04.84'	111° 55.09'	1444	Applied Mems	ANSS-130	Digital	ANSS
ELK	Elko, NV	ELK	BH[ZEN]	3	US	40° 44.69'	115° 14.33'	2210	*	*	Digital	USGS
ELU	Electric Lake, UT	ELU	EHZ	1	UU	39° 38.41'	111° 12.23'	2970	L4C	Masscomp	Analog	Utah
EMF	Eagle Mountain Gas Tap, UT	EMF	EN[ZEN]	3	UU	40° 16.89'	111° 59.92'	1487	Applied Mems	ANSS-130	Digital	ANSS
EMU	Emma Park, UT	EMU	EH[ZEN]	4	UU	39° 48.84'	110° 48.92'	2268	S13	Masscomp	Analog	USGS
			ELZ									
			EN[ZEN]	3					FBA23	K2	Digital	Utah
EPU	East Promontory, UT	EPU	EHZ	1	UU	41° 23.49'	112° 24.53'	1436	L4C	Masscomp	Analog	USGS
ETW	Elwood Town Hall, Elwood, UT	ETW	EN[ZEN]	3	UU	41° 40.15'	112° 08.53'	1305	Applied Mems	ANSS-130	Digital	ANSS
FLU	Fool's Peak, UT	FLU	EHZ	1	UU	39° 22.69'	112° 10.29'	1951	18300	Masscomp	Analog	USGS
FPU	Francis Peak, UT	FPU	EHZ	1	UU	41° 01.58'	111° 50.21'	2816	L4C	Masscomp	Analog	USGS
FSU	Fish Springs, UT	FSU	EHZ	1	UU	39° 43.35'	113° 23.48'	1487	18300	Masscomp	Analog	Utah
FTT	Fire Training Tower, Magna, UT	FTT	EN[ZEN]	3	UU	40° 41.16'	112° 04.99'	1381	Applied Mems	ANSS-130	Digital	ANSS
FLWY	Flagg Ranch, WY	FLWY	BH[ZEN]	3	IW	44° 04.96'	110° 41.96'	2078	3ESP	RT-130	Digital	ANSS
GBI	Big Grassy Butte, ID	GBI	EHZ	1	IE	43° 59.22'	112° 03.78'	1541	*	*	Digital	INEEL
GCN	Grand Canyon, AZ	GCN	EHZ	1	AR	36° 02.64'	112° 07.68'	2294	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	GMO	EN[ZEN]	3	UU	40° 36.04'	112° 28.48'	1320	Applied Mems	ANSS-130	Digital	ANSS
GMU	Granite Mountain, UT	GMU	EH[ZEN]	4	UU	40° 34.53'	111° 45.79'	1829	S13	Masscomp	Analog	USGS
			ELZ									
GMV	Granite Mountain Vault Sandy, UT	GMV	EN[ZEN]	3	UU	40° 34.40'	111° 45.79'	1829	EpiSensor	K2	Digital	ANSS
GRD	Gardner Farm, UT	GRD	EHZ	1	UU	40° 35.93'	111° 55.47'	1323	Ranger	Masscomp	Analog	USGS
GRR	Grays Lake, ID	GRRRI	EHZ	1	IE	42° 56.28'	111° 25.32'	2207	*	*	Digital	INEEL

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
GZU	Grizzly Peak, UT	GZU	EH[ZEN]	4	UU	41° 25.53'	111° 58.50'	2646	S13	Masscomp	Analog	USGS
			ELZ									
HCO	Holladay City Offices Holladay, UT	HCO	EN[ZEN]	3	UU	40° 40.07'	111° 49.38'	1362	EpiSensor	K2	Digital	ANSS
HDU	Hyde Park, UT	HDU	EHZ	1	UU	41° 48.18'	111° 45.99'	1807	L4C	Masscomp	Analog	USGS
HEB	Heber, UT	HEB	EHZ	1	UU	40° 30.09'	111° 20.15'	1925	S13	Masscomp	Analog	Utah
HER	Herriman Fire Station Herriman, UT	HER	EN[ZEN]	3	UU	40° 30.94'	112° 01.85'	1502	EpiSensor	K2	Digital	ANSS
HES	Hooper Elementary School Hooper, UT	HES	EN[ZEN]	3	UU	41° 09.89'	112° 07.30'	1292	EpiSensor	K2	Digital	ANSS
HHA	Hell's Half Acre, ID	HHAI	EHZ	1	IE	43° 17.70'	112° 22.74'	1371	*	*	Digital	INEEL
HHS	Hurricane High School, UT	HHS	EN[ZEN]	3	UU	37° 10.43'	113° 17.74'	987	EpiSensor	Etna	Digital	Utah
HLI	Hailey, ID	HLID	BH[ZEN]	3	US	43° 33.75'	114° 24.83'	1772	*	*	Digital	USGS
HLJZ	Hailstone, UT	HLJ	EHZ	1	UU	40° 36.64'	111° 24.05'	1931	S13	Masscomp	Analog	Utah
			EN[ZEN]	3					FBA23	K2	Digital	
HMU	Henry Mountain, UT	HMU	HH[ZEN]	3	UU	37° 56.28'	110° 44.51'	2430	3T	72A-07	Digital	Utah
HON	Honeyville, UT	HON	EN[ZEN]	3	UU	41° 36.97'	112° 03.05'	1528	Applied Mems	ANSS-130	Digital	ANSS
HONU		HONU	EHZ	1					L4C	Masscomp	Analog	USGS
HRU	Hogsback Ridge, UT	HRU	EHZ	1	UU	40° 47.67'	111° 53.14'	1620	Ranger	Masscomp	Analog	USGS
			EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
HTU	Hoyt, UT	HTU	EHZ	1	UU	40° 40.52'	111° 13.21'	2576	L4C	Masscomp	Analog	USGS
HVU	Hansel Valley, UT	HVU	HH[ZEN]	3	UU	41° 46.78'	112° 46.50'	1609	40T	72A-07	Digital	USGS
HWU	Hardware Ranch, UT	HWUT	BH[ZEN]	3	US	41° 36.41'	111° 33.91'	1830	*	*	Digital	USGS
IAE	Cedar City, Iron County Adult Education, UT	IAE	EN[ZEN]	3	UU	37°39.91'	113° 40.02'	1807	EpiSensor	Etna	Digital	Utah
ICF	International Center Fire Station, Salt Lake City, UT	ICF	EN[ZEN]	3	UU	40° 46.69'	112° 01.72'	1281	EpiSensor	K2	Digital	ANSS
ICU	Indian Springs Canyon, UT	ICU	EHZ	1	UU	37° 08.98'	113° 55.41'	1451	S13	Masscomp	Analog	Utah
IMU	Iron Mountain, UT	IMU	EHZ	1	UU	38° 37.99'	113° 09.50'	1833	L4C	Masscomp	Analog	Utah
IMW	Indian Meadows, WY	IMW	BH[ZEN]	3	IW	43° 53.58'	110° 56.58'	2670	3ESP	RT-130	Digital	ANSS
JLU	Jordanelle, UT	JLU	EN[ZEN]	3	UU	40° 36.12'	111° 27.00'	2285	EpiSensor	ANSS-130	Digital	ANSS
			HH[ZEN]	3					3ESP			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
JRP	Jordan River State Park Salt Lake City, UT	JRP	EN[ZEN]	3	UU	40° 49.54'	111° 56.66'	1284	EpiSensor	K2	Digital	ANSS
JVW	Jordan Valley Water District Well, Murray, UT	JVW	EN[ZEN]	3	UU	40° 37.95'	111° 54.46'	1315	Applied Mems	ANSS-130	Digital	ANSS
KEUT	Kanab Elementary School, UT	KEUT	EN[ZEN]	3	UU	37° 03.02'	112° 31.76'	1514	PA-23	SMART- 24	Digital	Utah
KLJ	Keetley, UT	KLJ	EHZ	1	UU	40° 37.85'	111° 24.30'	1992	S13	Masscomp	Analog	Utah
KNB	Kanab, UT	KNB	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	LCMT	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	LCU	EN[ZEN]	3	UU	40° 34.41'	111° 47.91'	1571	Applied Mems	K2	Digital	ANSS
LDJ	Lady, UT	LDJ	EHZ	1	UU	40° 34.89'	111° 24.52'	2217	S13	Masscomp	Analog	Utah
LEVU	Levan, UT	LEVU	EHZ	1	UU	39° 30.39'	111° 48.88'	1996	L4C	Masscomp	Analog	USGS
LGC	Lakeside Golf Course Bountiful, UT	LGC	EN[ZEN]	3	UU	40° 54.04'	111° 54.51'	1292	EpiSensor	K2	Digital	ANSS
LHUT	Little Humpy Peak, UT	LHUT	EHZ	1	UU	40° 53.49'	110° 59.78'	3084	S13	Masscomp	Analog	Utah
LKC	Lee Kay Hunter Education Center Magna, UT	LKC	EN[ZEN]	3	UU	40° 43.62'	112° 02.14'	1289	EpiSensor	K2	Digital	ANSS
LKW	Lake, WY	LKWY	BH[ZEN]	3	US	44° 33.91'	110° 24.00'	2424	*	*	Digital	USGS
LMU	Lake Mountain, UT	LMU	EN[ZEN]	3	UU	40° 18.91'	111° 55.92'	1593	EpiSensor	K2	Digital	ANSS
LOHW	National Elk Refuge, WY	LOHW	BH[ZEN]	3	IW	43° 36.76'	110° 36.30'	2245	3ESP	RT-130	Digital	ANSS
LRG	Logan River Golf Course	LRG	EN[ZEN]	3	UU	41° 42.82'	111° 51.08'	1362	Applied Mems	ANSS-130	Digital	ANSS
LSU	Lake Shores, UT	LSU	EN[ZEN]	3	UU	40° 07.94'	111° 43.80'	1375	EpiSensor	K2	Digital	ANSS
LTU	Little Mountain, UT	LTU	EHZ	1	UU	41° 35.51'	112° 14.83'	1585	L4C	Masscomp	Analog	USGS
MAB	Mapleton Ambulance Building Mapleton, UT	MAB	EN[ZEN]	3	UU	40° 07.85'	111° 34.67'	1440	EpiSensor	K2	Digital	ANSS
MBUT	Moab, UT	MBUT	EN[ZEN]	3	UU	38° 32.00'	109° 30.59'	1376	FBA23	Etna	Digital	Utah
MCID	Moose Creek, ID	MCID	EHZ	1	WY	44° 11.45'	111° 11.03'	2137	L4C	Masscomp	Analog	USGS
MCU	Monte Cristo Peak, UT	MCU	EHZ	1	UU	41° 27.70'	111° 30.45'	2664	18300	Masscomp	Analog	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
MGU	Meadow Brook Golf Course Salt Lake City, UT	MGU	EHZ	1	UU	40° 40.89'	111° 55.09'	1291	Ranger	Masscomp	Analog	USGS
MHD	Mile High Drive, UT	MHD	EHZ	1	UU	40° 39.64'	111° 48.05'	1597	Ranger	Masscomp	Analog	USGS
MID	Middle Canyon, UT	MID	EN[ZEN]	3	UU	40° 31.04'	112° 15.28'	1722	Applied Mems	ANSS-130	Digital	ANSS
MLI	Malad Range, ID	MLI	EHZ	1	UU	42° 01.61'	112° 07.53'	1896	L4C	Masscomp	Analog	USGS
MMU	Miners Mountain, UT	MMU	EHZ	1	UU	38° 11.57'	111° 17.66'	2387	S13	Masscomp	Analog	Utah
MOMZ	Monida, MT	MOMT	EHZ	1	MB	44° 35.60'	112° 23.66'	2220	*	*	Analog	MBMT
MOR	Morgan, UT	MOR	EN[ZEN]	3	UU	41° 02.77'	111° 39.94'	1633	Applied Mems	ANSS-130	Digital	ANSS
MOUT	Mount Ogden, UT	MOUT	EHZ	1	UU	41° 11.94'	111° 52.73'	2743	S13	Masscomp	Analog	USGS
MPU	Maple Canyon, UT	MPU	EN[ZEN]	3	UU	40° 00.93'	111° 38.00'	1909	EpiSensor	K2	Digital	ANSS
			HH[ZEN]	3					40T	72A-07	Digital	USGS
MSU	Marysvale, UT	MSU	EHZ	1	UU	38° 30.74'	112° 10.63'	2105	18300	Masscomp	Analog	Utah
MTLO	Mt. Logan, AZ	MTL	EHZ	1	AR	36° 21.18'	113° 11.94'	2418	*	*	Analog	NAU
MTPU	Mt. Pierson, UT	MTPU	HH[ZEN]	3	UU	38° 02.49'	112° 11.06'	3112	Trillium 120	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
MTUT	Morton Thiokol, UT	MTUT	EHZ	1	UU	41° 42.55'	112° 27.28'	1373	L4C	Masscomp	Analog	USGS
MVCO	Mesa Verde, CO	MVCO	BH[ZEN]	3	US	37° 12.62'	108° 29.92'	2170	STS-2	Q330	Digital	ANSS
MVU	Marysvale, UT	MVU	BH[ZEN]	3	LB	38° 30.22'	112° 12.74'	2240	*	*	Digital	Sandia
NAI	North Antelope Island, UT	NAI	EN[ZEN]	3	UU	41° 00.97'	112° 13.68'	1472	EpiSensor	K2	Digital	ANSS
NAIU		NAIU	EHZ	1					L4C	Masscomp	Analog	USGS
NLU	North Lily Mine, UT	NLU	EN[ZEN]	3	UU	39° 57.29'	112° 04.50'	2036	Episensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			
NMU	North Mineral Mountain, UT	NMU	EH[ZEN]	4	UU	38° 30.99'	112° 51.00'	1853	S13	Masscomp	Analog	Utah
			ELZ									
NOQ	North Oquirrh Mountains, UT	NOQ	EN[ZEN]	3	UU	40° 39.16'	112° 07.26'	1628	EpiSensor	K2	Digital	ANSS
			HH[ZEN]	3					40T	72A-07	Digital	USGS
NPI	North Pocatello, ID	NPI	EHZ	1	UU	42° 08.84'	112° 31.10'	1640	L4C	Masscomp	Analog	USGS
OCP	Orem City Park, Orem, UT	OCP	EN[ZEN]	3	UU	40° 17.87'	111° 41.44'	1464	EpiSensor	K2	Digital	ANSS
OF2	Ogden Fire Station ° 2 Ogden, UT	OF2	EN[ZEN]	3	UU	41° 13.70'	111° 56.92'	1358	EpiSensor	K2	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
OPS	Ogden Public Safety Building, Ogden, UT	OPS	EN[ZEN]	3	UU	41° 13.72'	111° 58.54'	1317	Applied Mems	ANSS-130	Digital	ANSS
OSS	Oquirrh Sub Station, UT	OSS	EN[ZEN]	3	UU	40° 33.77'	112° 01.61'	1503	Applied Mems	ANSS-130	Digital	ANSS
OWUT	Old Woman Plateau, UT	OWUT	EHZ	1	UU	38° 46.80'	111° 25.42'	2568	L4C	Masscomp	Analog	Utah
P03	Wild Steer, Paradox Basin, CO	PV03	EHZ	1	RE	38° 15.26'	108° 50.88'	1975	*	*	Analog	USBR
P15	Potato Mountain Paradox Basin, CO	PV15	EHZ	1	RE	38° 20.51'	108° 28.86'	2280	*	*	Analog	USBR
P17A	Butcher Ranch, Price, UT	P17A	HH[ZEN]	3	UU	39° 37.67'	110° 14.56'	1687	Trillium 240	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
P18A	Preston Nutter Ranch, Sunnyside, UT	P18A	HH[ZEN]	3	UU	39° 28.38'	110° 44.40'	2743	Trillium 240	Q330	Digital	Utah
PCL	Plain City Landfill Plain City, UT	PCL	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	PCR	EN[ZEN]	3	UU	40° 39.25'	111° 30.19'	2100	EpiSensor	K2	Digital	ANSS
PEUT	Richfield, Pahvant Elementary School, UT	PEUT	EN[ZEN]	3	UU	38° 46.55'	112° 05.32'	1644	PA-23	SMART-24	Digital	Utah
PGAZ	Page, AZ	PGA	EHZ	1	AR	36° 54.34'	111° 16.86'	1272	*	*	Analog	NAU
PGC	Pleasant Grove Creek, UT	PGC	EN[ZEN]	3	UU	40° 22.71'	111° 42.62'	1707	EpiSensor	K2	Digital	ANSS
PKCU	Pink Cliffs, UT	PCUT	HH[ZEN]	3	UU	37° 26.63'	112° 18.66'	2834	Trillium 120	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
PRN	Pahroc, Range, NV	PRN	SHZ	1	NN	37° 24.40'	115° 03.05'	1402	*	*	Digital	UNR
PSUT	Pine Spring, UT	PSUT	HH[ZEN]	3	UU	38° 32.02'	113° 51.28'	1999	Trillium 120	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
PTI	Pocatello, ID	PTI	EHZ	1	IE	42° 52.20'	112° 22.21'	1670	*	*	Digital	INEEL
PTU	Portage, UT	PTU	EHZ	1	UU	41° 55.76'	112° 19.48'	2192	L4C	Masscomp	Analog	USGS
Q16A	Castle Valley Ranch, Emery, UT	Q16A	HH[ZEN]	3	UU	38° 55.06'	111° 10.30'	1912	STS-2	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
QLMZ	Earthquake Lake, MT	QLMT	EHZ	1	MB	44° 49.84'	111° 25.80'	2064	*	*	Analog	MBMT
RBUZ	Red Butte Canyon, UT	RBU	EHZ	1	UU	40° 46.85'	111° 48.50'	1676	L4C	Masscomp	Analog	USGS
RCJZ	Ross Creek, UT	RCJ	EHZ	1	UU	40° 39.51'	111° 26.36'	2090	S13	Masscomp	Analog	Utah

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
RDMU	Red Mountain, UT	RDMU	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	REDW	BH[ZEN]	3	IW	43° 21.74'	110° 51.18'	2322	3ESP	RT-130	Digital	ANSS
REUT	Washington Fields, Riverside Elementary School, UT	REUT	EN[ZEN]	3	UU	37° 05.86'	113° 31.16'	791	PA-23	SMART-24	Digital	Utah
RIV	Public Works Building Riverton, UT	RIV	EN[ZEN]	3	UU	40° 31.16'	111° 56.05'	1347	EpiSensor	K2	Digital	ANSS
ROA	Roan Cliffs, UT	ROA	EHZ	1	UU	39° 39.69'	110° 21.88'	2962	S13	Masscomp	Analog	Utah
RPF	Rose Park Fire Station, Salt Lake City, UT	RPF	EN[ZEN]	3	UU	40° 46.52'	111° 55.22'	1287	Applied Mems	ANSS-130	Digital	ANSS
RRI2	Red Ridge, ID	RRI2	BH[ZEN]	3	IW	43° 20.84'	111° 19.20'	2547	3ESP	RT-130	Digital	ANSS
RSUT	Red Spur, UT	RSUT	EHZ	1	UU	41° 38.31'	111° 25.90'	2682	S13	Masscomp	Analog	USGS
SAIU	South Antelope Island, UT	SAIU	EHZ	1	UU	40° 51.29'	112° 10.89'	1384	L4C	Masscomp	Analog	USGS
SCC	Salt Lake Community College	SCC	EN[ZEN]	3	UU	40° 40.49'	111° 56.37'	1306	EpiSensor	K2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	SCS	EN[ZEN]	3	UU	41° 05.73'	112° 02.81'	1321	EpiSensor	K2	Digital	ANSS
SCUT	Santa Clara, UT	SCUT	EN[ZEN]	3	UU	37° 07.69'	113° 38.68'	837	EpiSensor	Etna	Digital	Utah
SCY	Salem City Yard, Salem, UT	SCY	EN[ZEN]	3	UU	40° 03.47'	111° 41.14'	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	SCSU	EN[ZEN]	3	UU	38° 16.61'	112° 38.42'	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	SGU	EHZ	1	UU	39° 10.94'	111° 38.68'	2357	18300	Masscomp	Analog	USGS
SHP	Sheep Range, NV	SHP	EHZ	1	NN	36° 30.33'	115° 09.61'	1590	*	*	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	SJF	EN[ZEN]	3	UU	40° 33.37'	111° 56.34'	1356	Applied Mems	ANSS-130	Digital	ANSS
SNO	Snow College, UT	SNO	EHZ	1	UU	39° 19.18'	111° 32.33'	2503	Ranger	Masscomp	Analog	Utah
SNUT	Stanbury North, UT	SNUT	EHZ	1	UU	40° 53.10'	112° 30.52'	1652	18300	Masscomp	Analog	USGS
SPR	Wildlife Resource Center Springville, UT	SPR	EN[ZEN]	3	UU	40° 10.94'	111° 36.71'	1379	EpiSensor	K2	Digital	ANSS
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	SPS	EN[ZEN]	3	UU	40° 38.97'	112° 18.95'	1293	Applied Mems	ANSS-130	Digital	ANSS
SPU	South Promontory Point, UT	SPU	EN[ZEN]	3	UU	41° 18.52'	112° 26.95'	2086	EpiSensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SRU	San Rafael Swell, UT	SRU	EHZ	1	UU	39° 06.65'	110° 31.43'	1804	S13	Masscomp	Analog	Utah, ANSS, IRIS
			HH[ZEN]	6					STS-2	ANSS-130	Digital	
			EN[ZEN]						EpiSensor			
SSC	Sandy Senior Center Sandy, UT	SSC	EN[ZEN]	3	UU	40° 34.89'	111° 51.35'	1414	EpiSensor	K2	Digital	ANSS
SUU	Santaquin Canyon, UT	SUU	EHZ	1	UU	39° 53.29'	111° 47.45'	2024	18300	Masscomp	Analog	USGS
SZCU	Shurtz Canyon, UT	SZCU	HH[ZEN]	3	UU	37° 35.72'	113° 05.25'	2026	3T	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
TCRU	Three Creeks Reservoir, UT	TCRU	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	TCU	EN[ZEN]	3	UU	41° 07.04'	111° 24.47'	2269	EpiSensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			
TCUT	Toone Canyon, UT	TCUT	EHZ	1	UU	41° 07.07'	111° 24.51'	2320	L4C	Masscomp	Analog	USGS
TMI	Taylor Mountain, ID	TMI	EHZ	1	IE	43° 18.30'	111° 55.08'	2179	*	*	Digital	INEEL
TMU	Trail Mountain, UT	TMU	HH[ZEN]	3	UU	39° 17.79'	111° 12.49'	2731	40T	72A-08	Digital	Utah, ANSS
			EN[ZEN]	3					EpiSensor			
TPMZ	Teepe Creek, MT	TPMT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	TPNV	BH[ZEN]	3	US	36° 56.93'	116° 14.97'	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	TPU	EN[ZEN]	3	UU	40° 25.81'	111° 54.13'	1383	EpiSensor	K2	Digital	ANSS
TRC	Troy Canyon, NV	TRC	BHZ	1	NN	38° 20.98'	115° 35.11'	1815	*	*	Digital	UNR
TRS	Tooele County Radio Shop, Tooele, UT	TRS	EN[ZEN]	3	UU	40° 30.83'	112° 18.63'	1568	EpiSensor	K2	Digital	ANSS
TUC	Tucson, AZ	TUC	BH[ZEN]	3	US	32° 18.58'	110° 47.05'	906	*	*	Digital	USGS
UHP	Utah Highway Patrol Farmington, UT	UHP	EN[ZEN]	3	UU	40° 59.47'	111° 53.88'	1295	EpiSensor	K2	Digital	ANSS
UTH	Uintah Town Hall, Uintah, UT	UTH	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	UUE	EN[ZEN]	3	UU	40° 46.09'	111° 50.77'	1449	EpiSensor	K2	Digital	ANSS
VEC	Valley Emergency Communications Center West Valley City, UT	VEC	EN[ZEN]	3	UU	40° 39.21'	112° 01.95'	1480	EpiSensor	K2	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
VES	Valley Elementary School, Huntsville, UT	VES	EN[ZEN]	3	UU	41° 15.72'	111° 46.20'	1501	Applied Mems	ANSS-130	Digital	ANSS
VNL	Vernal, UT	VNL	EN[ZEN]	3	UU	40° 27.48'	109° 32.89'	1648	FBA23	Etna	Digital	Utah
WBC	Weber Canyon, UT	WBC	EN[ZEN]	3	UU	41° 08.38'	111° 54.05'	1602	EpiSensor	K2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	WCF	EN[ZEN]	3	UU	41° 38.37'	111° 55.94'	1387	Applied Mems	ANSS-130	Digital	ANSS
WCN	Washoe, NV	WCN	HHZ	1	NN	39° 18.10'	119° 45.38'	1500	*	*	Digital	UNR
WCO	Washington City Office Building, UT	WCO	EN[ZEN]	3	UU	37° 07.91'	113° 30.56'	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	WCU	EHZ	1	UU	38° 57.88'	112° 05.44'	2673	18300	Masscomp	Analog	USGS
WDO	Saint George, Washington County School District Office, UT	WDO	EN[ZEN]	3	UU	37° 06.46'	113° 35.19'	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	WES	EN[ZEN]	3	UU	40° 43.97'	111° 51.26'	1341	EpiSensor	K2	Digital	ANSS
WHS	West High School	WHS	EN[ZEN]	3	UU	40° 46.51'	111° 53.93'	1301	EpiSensor	K2	Digital	ANSS
WMUT	West Mountain, UT	WMUT	EHZ	1	UU	40° 04.60'	111° 50.00'	1981	L4C	Masscomp	Analog	USGS
WRP	Water Reclamation Plant Salt Lake City, UT	WRP	EN[ZEN]	3	UU	40° 48.82'	111° 55.87'	1286	Applied Mems	ANSS-130	Digital	ANSS
WTU	Western Traverse Mountains, UT	WTU	EH[ZEN]	4	UU	40° 27.29'	111° 57.21'	1552	S13	Masscomp	Analog	USGS
			ELZ									
			EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
WUAZ	Wupatki, AZ	WUAZ	BH[ZEN]	3	US	35° 31.01'	111° 22.43'	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	WVUT	EHZ	1	UU	41° 36.61'	111° 57.55'	1828	L4C	Masscomp	Analog	USGS
YDC	Denny Creek, MT	YDC	EHZ	1	WY	44° 42.51'	111° 14.60'	2025	L4C	Masscomp	Analog	USGS
YFT	Old Faithful (YNP), WY	YFT	HH[ZEN]	3	WY	44° 27.05'	110° 50.24'	2292	40T	72A-07	Digital	USGS
			EHZ	1					L4C	None	None	
YGC	Grayling Creek, MT	YGC	EHZ	1	WY	44° 47.77'	111° 06.45'	2075	L4C	Masscomp	Analog	USGS
YHB	Horse Butte, MT	YHB	EHZ	1	WY	44° 45.07'	111° 11.71'	2157	L4C	Masscomp	Analog	USGS
			HH[ZEN]	3					40T	ANSS-130	Digital	
YHH	Holmes Hill (YNP), WY	YHH	EH[ZEN]	3	WY	44° 47.30'	110° 51.03'	2717	S13	Masscomp	Analog	USGS
YJCZ	Joseph's Coat (YNP), WY	YJC	EHZ	1	WY	44° 45.33'	110° 20.95'	2684	S13	Masscomp	Analog	USGS
YLAZ	Lake Butte (YNP), WY	YLA	EHZ	1	WY	44° 30.76'	110° 16.12'	2580	L4C	Masscomp	Analog	USGS
YLT	Little Thumb Creek (YNP), WY	YLT	EHZ	1	WY	44° 26.25'	110° 35.28'	2439	L4C	Masscomp	Analog	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YMC	Maple Creek (YNP), WY	YMC	EHZ	1	WY	44° 45.53'	111° 00.41'	2073	S13	Masscomp	Analog	USGS
YML	Mary Lake (YNP), WY	YML	EHZ	1	WY	44° 36.20'	110° 38.63'	2653	L4C	Masscomp	Analog	USGS
YMP	Mirror Plateau (YNP), WY	YMP	EH[ZEN]	3	WY	44° 44.38'	110° 09.40'	2774	S13	Masscomp	Analog	USGS
YMR	Madison River (YNP), WY	YMR	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	40T	72A-07	Digital	USGS
YMS	Mount Sheridan (YNP), WY	YMS	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	Masscomp	Analog	USGS
YMV	Mammoth Vault (YNP), WY	YMV	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	Masscomp	Analog	USGS
YNR	Norris Junction (YNP), WY	YNR	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	40T	RT-130	Digital	USGS
YPC	Pelican Cone (YNP), WY	YPC	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	Masscomp	Analog	USGS
YPK	Parker Peak (YNP), WY	YPK	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	Masscomp	Analog	USGS
YPM	Purple Mountain (YNP), WY	YPM	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	Masscomp	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	YPP	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	Masscomp	Analog	USGS
YSB	Soda Butte (YNP), WY	YSB	EHZ	1	WY	44° 53.04'	110° 09.06'	2072	L4C	Masscomp	Analog	USGS
YTP	The Promontory (YNP), WY	YTP	EHZ	1	WY	44° 23.51'	110° 17.10'	2384	L4	Masscomp	Analog	USGS
YUF	Upper Falls (YNP), WY	YUF	HH[ZEN]	3	WY	44° 42.76'	110° 30.71'	2394	3ESP	ANSS-130	Digital	USGS
YWB	West Boundary (YNP), WY	YWB	EHZ	1	WY	44° 36.35'	111° 06.05'	2310	L4C	Masscomp	Analog	USGS
ZNPU	Zion National Park, UT	ZNPU	HH[ZEN]	3	UU	37° 21.37'	113° 07.52'	1953	Trillium 120	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			

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

Network Statistics: 649 data channels from 247 stations were being recorded at the end of this report period (excluding temporary TA stations)

EXPLANATION OF TABLE

UURSN Code: Station code used in routine processing. Due to processing 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/SEED_appA.htm>> 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/stations/networks.txt>>> for information about registered seismograph network codes. Network codes referenced in this table:

Network Code	Network name; Network operator or responsible organization
AR	Northern Arizona Seismic Network, Northern Arizona University
LB	Leo Brady Network; Sandia National Laboratory
IE	Idaho National Engineering and Environmental Laboratory

IU	IRIS/USGS Network; USGS Albuquerque Seismological Laboratory
IW	Intermountain West Network
MB	Montana Regional Seismic Network; Montana Bureau of Mines and Geology
NN	Western Great Basin; University of Nevada, Reno
NP	National Strong Motion Program; U.S. Geological Survey
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 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 accelerometer
EpiSensor	Kinometrics accelerometer
Applied Mems	Applied Mems accelerometer
PA-23	Geotech PA-23
Trillium 120	Nanometrics Trillium 120 broadband seismometer
Trillium 240	Nanometrics Trillium 240 broadband seismometer
Digitizer	Description
Masscomp	Concurrent Computer Corporation (formerly Masscomp) 7200C computer (with 12-bit digitizer)
K2	Kinometrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinometrics Altus Series Etna (19-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 (24-bit resolution field digitizer)
SMART-24	Geotech SMART-24 digitizer (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
INEEL Idaho National Engineering and Environmental 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

NETWORK CHANGES DURING JANUARY 1-MARCH 31, 2010

January 1, 2010 TA adopted stations Q16A, P17A (HH[ZEN], EN[ZEN]) and P18A (HH[ZEN]) were installed in the previous quarter.

During the report period, temporary Transportable Array (TA) stations of USArray, a component of the National Science Foundation's EarthScope experiment no longer operated in the Utah region. Once a station has been decommissioned, detailed station data can still be accessed, but under the "Decommissioned" menu tab. Information about active TA stations can be obtained online at <http://anf.ucsd.edu/stations.php>. Note that detailed information for individual TA stations can be accessed on the latter Web site by pointing and clicking on the map of "Active Stations: By network."