

# **EARTHQUAKE ACTIVITY IN THE UTAH REGION**

Preliminary Epicenters

July 1 – September 30, 2017

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 15, 2017

## 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, 2017

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During the three-month period July 1, 2017 through September 30, 2017, the University of Utah Seismograph Stations (UUSS) located 290 earthquakes within the Utah region (Figure 1). The total includes three earthquakes in the magnitude 3 range, and 28 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 2017 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

### Online Information

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

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 The primary effect on the data reported herein comes from computing the earthquake locations with a newer version of the computer program HYPOINVERSE-2000 (F. W. Klein, 2012, U.S. Geological Survey Open-File Report 02-171 revised) and a revised and expanded set of velocity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

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

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

### Earthquakes of Magnitude 3.0 or Larger

|                    |              |           |                            |
|--------------------|--------------|-----------|----------------------------|
| M <sub>L</sub> 3.4 | July 12      | 08:41 MDT | 9 mi SSE of St. George, UT |
| M <sub>L</sub> 3.3 | September 18 | 11:21 MDT | 7 mi WNW of Park City, UT  |
| M <sub>L</sub> 3.3 | September 23 | 22:38 MDT | 4 mi E of Park City, UT    |

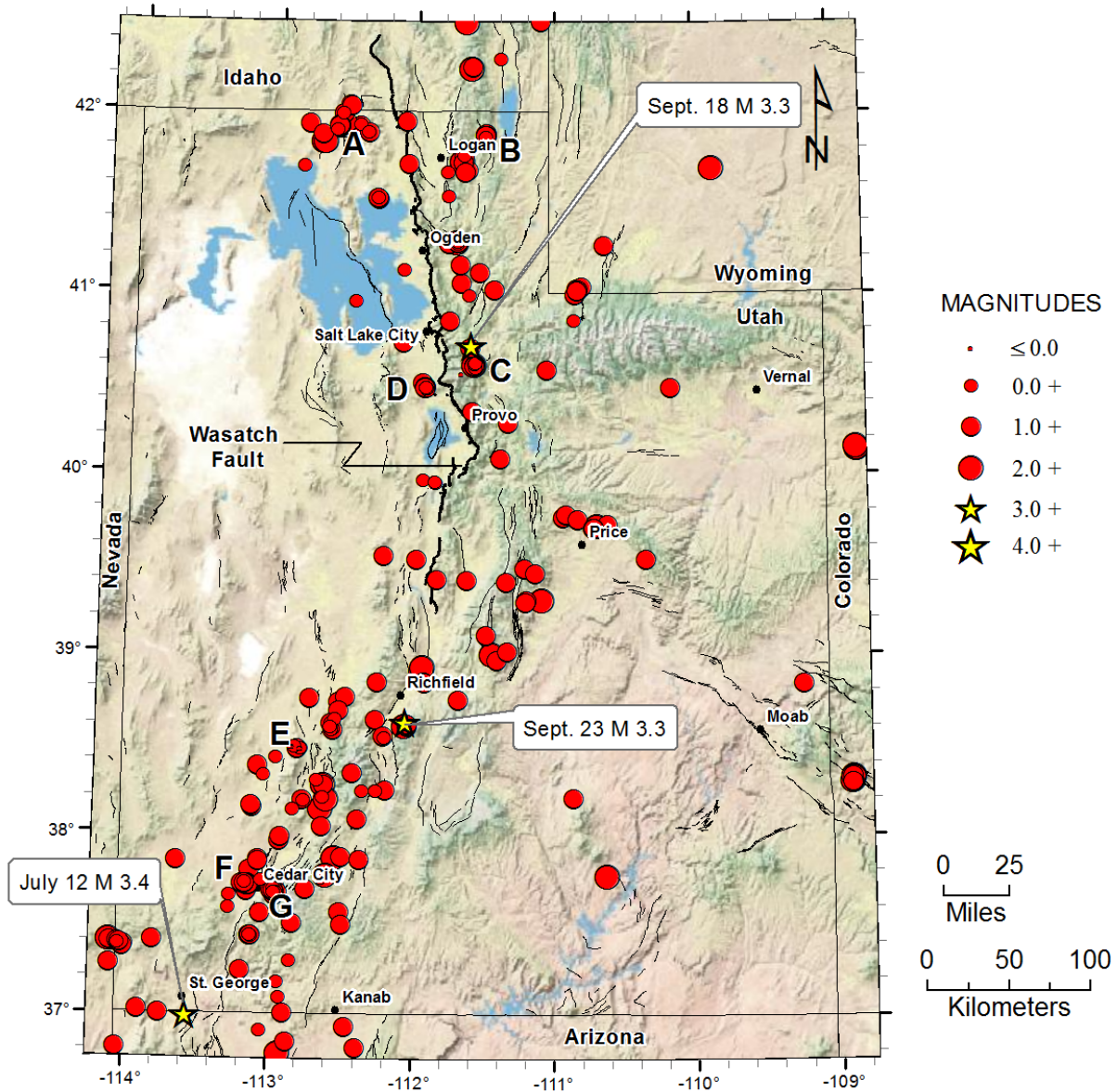
### Other Notable Seismicity

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

- A. A cluster of 12 earthquakes ( $0.7 \leq M \leq 1.6$ ) occurred about 23 mi WNW of Garland, UT. Six of these events, including a magnitude 1.6 shock, occurred between August 31 and September 1.
- B. A cluster of 10 earthquakes ( $0.9 \leq M \leq 1.6$ ) occurred about 18 mi E of Richmond, UT. Five of these events, including a magnitude 1.6 shock, occurred on July 17.
- C. A cluster of 12 earthquakes ( $-0.2 \leq M \leq 2.3$ ) occurred about 4 mi E of Alta, UT. Five of these events, including a magnitude 2.3 shock, occurred on July 2.
- D. A cluster of 13 earthquakes ( $0.5 \leq M \leq 1.7$ ) occurred about 3 mi SSE of Bluffdale, UT. Five of these events, including a magnitude 1.7 shock, occurred between July 4 and July 6.
- E. A cluster of 12 earthquakes ( $-0.8 \leq M \leq 1.5$ ) occurred about 11 mi ENE of Milford, UT. Six of these events occurred on July 8.
- F. A cluster of 21 earthquakes ( $0.5 \leq M \leq 1.9$ ) occurred about 5 mi WNW of Cedar City, UT. Nineteen of these events, including a magnitude 1.9 shock, occurred on July 18.
- G. A cluster of 15 earthquakes ( $0.7 \leq M \leq 1.4$ ) occurred about 5 mi E of Cedar City, UT. Seven of these events, including a magnitude 1.4 shock, occurred on August 21.

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 16 located shocks ( $1.0 \leq M \leq 2.2$ ) that occurred during the report period.

## Seismicity of the Utah Region July 1, 2017 - September 30, 2017



**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–G are discussed in the text.

**Table 1**

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

**January 1, 2017 to September 30, 2017**

| <b>Date</b>                  | <b>Time†</b>           | <b>Felt Information‡</b>  | <b>Latitude</b> | <b>Longitude</b> | <b>Magnitude§</b>  |
|------------------------------|------------------------|---|-----------------|------------------|--------------------|
| March 1                      | 01:34 MST<br>08:34 UTC | Utah. <i>ShakeMap</i> .   | 38° 01.66'      | 112° 28.11'      | M <sub>L</sub> 3.0 |
| March 5                      | 12:14 MST<br>19:14 UTC | Utah. <i>CIIM. ShakeMap</i> .<br>Felt (III) at Cedar City,<br>UT and (II) at Salt Lake<br>City (?), UT.   | 37° 45.28'      | 113° 08.95'      | M <sub>L</sub> 3.3 |
| April 13<br>April 14         | 23:28 MDT<br>05:28 UTC | Utah. <i>CIIM</i> . Felt (III) at<br>Salina, UT.  | 38° 55.76'      | 111° 52.81'      | M <sub>L</sub> 2.5 |
| April 21<br>April 22         | 22:01 MDT<br>04:01 UTC | Utah. <i>CIIM. ShakeMap</i> .<br>Felt (IV) at Blanding,<br>UT and (II) at Dolores<br>(?), CO.   | 37° 14.88'      | 109° 34.20'      | M <sub>L</sub> 3.8 |
| June 14                      | 22:01 MDT<br>04:01 UTC | Utah. <i>CIIM</i> . Felt (III) at<br>South Jordan, UT and<br>(II) at Herriman, Salt<br>Lake City, Logan (?),<br>UT.   | 40° 30.51'      | 112° 09.97'      | M <sub>L</sub> 2.9 |
| July 12                      | 08:41 MDT<br>14:41 UTC | Utah. <i>CIIM. ShakeMap</i> .<br>Felt (III) at St. George,<br>Santa Clara,<br>Washington, Ivins,<br>Hurricane, UT.  | 36° 58.96'      | 113° 33.76'      | M <sub>L</sub> 3.4 |
| September 2                  | 17:56 MDT<br>23:56 UTC | Idaho. <i>CIIM</i> . Felt (III)<br>at Garden City,<br>Lewinston, Richmond,<br>Laketown, Logan,<br>Garland, Ogden, UT<br>and (II) at Salt Lake<br>City, Kamas, Park City,<br>UT.   | 42° 38.82'      | 111° 26.94'      | M <sub>w</sub> 5.3 |
| September 18                 | 11:21 MDT<br>17:21 UTC | Utah. <i>CIIM. ShakeMap</i> .<br>Felt (III) at Salt Lake<br>City, Sandy, Kaysville,<br>Park City, Bountiful,<br>Draper, Ogden, UT and<br>(II) at American Fork,<br>Hooper, Saratoga<br>Springs, Hill AFB,<br>Lehi, Provo, UT. | 40° 42.05'      | 111° 36.55'      | M <sub>L</sub> 3.3 |
| September 18<br>September 19 | 19:12 MDT<br>01:12 UTC | Utah. <i>CIIM</i> . Felt (III) at<br>Ogden, Layton, Salt<br>Lake City, Clearfield,<br>Hill AFB, Roy, UT and<br>(II) at Eden, Logan,<br>Kaysville, UT.   | 41° 16.41'      | 111° 42.92'      | M <sub>L</sub> 2.7 |

| <b>Date</b>                  | <b>Time†</b>           | <b>Felt Information‡</b>  | <b>Latitude</b> | <b>Longitude</b> | <b>Magnitude§</b>  |
|------------------------------|------------------------|---|-----------------|------------------|--------------------|
| September 23<br>September 24 | 22:38 MDT<br>04:38 UTC | Utah. <i>CIIM</i> . <i>ShakeMap</i> .<br>Felt (III) at Monroe,<br>Joseph, Richfield,<br>Salina, UT and (II) at<br>Orderville, West<br>Jordan, UT. | 38° 36.90'      | 112° 03.36'      | M <sub>L</sub> 3.3 |

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

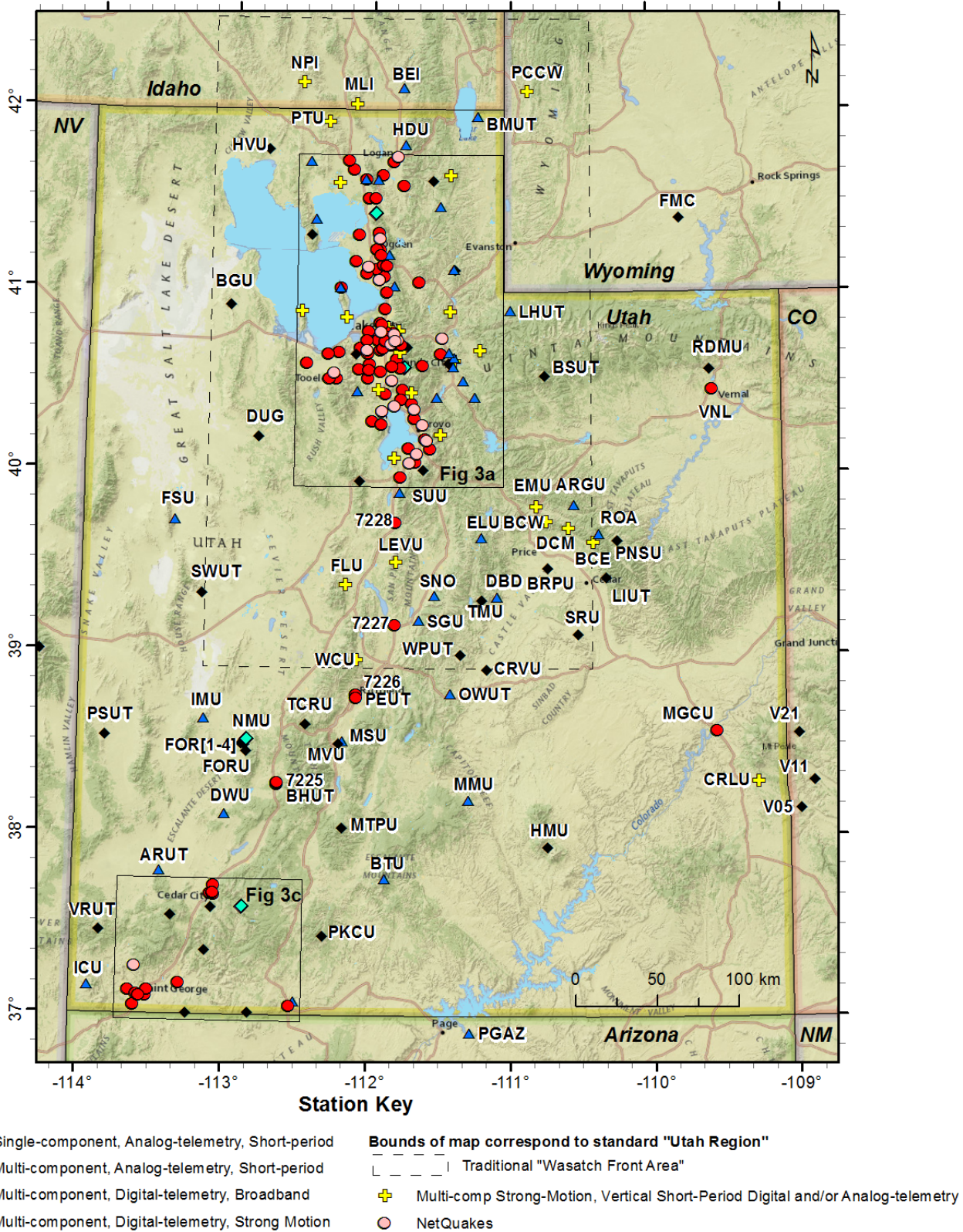
? Indicates on-line reports that appear questionable given the distance from the source

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

§ Richter local magnitude (M<sub>L</sub>) or coda magnitude (M<sub>C</sub>) determined by UUSS. If labeled “NEIC,” data are from the National Earthquake Information Center of the USGS.



# Utah Regional/Urban Seismic Network September 30, 2017





**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170701 | 03:20:23.24 | 41° 52.82' | 112° 22.38' | 0.4   | 0.4  | 11 | 86  | 7   | 0.08 |
| 170701 | 05:58:10.33 | 41° 52.67' | 112° 21.92' | 2.7   | 1.0  | 14 | 85  | 7   | 0.08 |
| 170701 | 09:38:09.74 | 40° 27.98' | 111° 55.55' | 7.3   | 0.8  | 24 | 89  | 3   | 0.14 |
| 170701 | 10:13:14.53 | 40° 28.29' | 111° 55.87' | 6.6   | 0.5W | 26 | 47  | 3   | 0.17 |
| 170702 | 08:39:39.04 | 40° 28.39' | 111° 55.85' | 5.6   | 1.6W | 35 | 40  | 3   | 0.18 |
| 170702 | 10:26:39.82 | 40° 35.97' | 111° 34.74' | 10.7  | 1.1W | 23 | 116 | 5   | 0.18 |
| 170702 | 10:37:18.14 | 40° 35.77' | 111° 35.20' | 12.0  | 2.3W | 47 | 37  | 4   | 0.22 |
| 170702 | 11:21:44.72 | 40° 32.92' | 111° 40.55' | 8.8   | -0.2 | 5  | 257 | 6   | 0.07 |
| 170702 | 11:36:52.09 | 40° 35.77' | 111° 35.12' | 8.9   | 1.0W | 13 | 170 | 4   | 0.12 |
| 170702 | 11:37:36.23 | 40° 35.28' | 111° 34.97' | 10.5  | 1.0  | 23 | 117 | 5   | 0.21 |
| 170702 | 23:37:43.45 | 39° 05.86' | 111° 29.25' | 2.4*  | 1.6W | 11 | 84  | 17  | 0.18 |
| 170703 | 00:53:29.79 | 40° 35.70' | 111° 34.90' | 11.5  | 1.1W | 21 | 118 | 5   | 0.17 |
| 170703 | 06:56:58.12 | 40° 35.82' | 111° 34.98' | 11.1  | 1.3W | 27 | 57  | 5   | 0.18 |
| 170703 | 09:25:19.22 | 40° 35.84' | 111° 34.71' | 10.4  | 1.0  | 20 | 149 | 5   | 0.19 |
| 170703 | 15:26:29.14 | 40° 34.71' | 111° 34.76' | 11.3  | 0.8  | 20 | 123 | 5   | 0.21 |
| 170703 | 22:02:04.69 | 40° 36.28' | 111° 34.84' | 11.2  | 0.5  | 20 | 116 | 5   | 0.17 |
| 170704 | 16:32:42.06 | 39° 17.61' | 111° 05.54' | -0.5  | 2.0W | 21 | 56  | 2   | 0.15 |
| 170704 | 16:36:17.47 | 38° 37.82' | 112° 16.16' | -3.4* | 1.7W | 12 | 97  | 15  | 0.19 |
| 170704 | 17:11:03.61 | 40° 35.96' | 111° 34.75' | 11.9  | 1.7W | 28 | 106 | 5   | 0.21 |
| 170704 | 17:51:30.17 | 40° 35.92' | 111° 35.21' | 10.3  | 0.6  | 15 | 163 | 4   | 0.14 |
| 170704 | 19:08:15.17 | 40° 28.10' | 110° 10.02' | 21.0* | 1.7W | 12 | 132 | 51  | 0.15 |
| 170704 | 22:24:02.25 | 40° 28.35' | 111° 55.87' | 6.5   | 0.9  | 15 | 155 | 3   | 0.13 |
| 170704 | 23:19:03.89 | 40° 28.29' | 111° 56.22' | 7.4   | 1.0W | 24 | 67  | 2   | 0.12 |
| 170704 | 23:22:20.37 | 40° 28.31' | 111° 56.01' | 6.8   | 0.8  | 13 | 101 | 3   | 0.12 |
| 170705 | 02:05:17.51 | 38° 28.71' | 112° 50.35' | 0.1   | 0.1  | 11 | 234 | 3   | 0.08 |
| 170706 | 01:43:22.89 | 36° 54.29' | 113° 02.77' | 24.3  | 0.9W | 9  | 178 | 21  | 0.14 |
| 170706 | 04:05:23.80 | 40° 28.36' | 111° 56.07' | 5.5   | 1.6W | 34 | 28  | 3   | 0.17 |
| 170706 | 04:34:19.24 | 40° 28.04' | 111° 56.18' | 5.5   | 1.7W | 41 | 51  | 2   | 0.19 |
| 170706 | 08:08:36.20 | 38° 50.36' | 112° 15.65' | 3.5*  | 1.4W | 13 | 73  | 20  | 0.13 |
| 170706 | 08:37:07.74 | 41° 15.38' | 110° 38.75' | 8.1*  | 1.8  | 8  | 259 | 50  | 0.26 |
| 170708 | 02:21:48.00 | 39° 23.83' | 111° 20.94' | 16.1  | 1.6W | 20 | 92  | 16  | 0.17 |
| 170708 | 06:43:33.08 | 40° 28.62' | 111° 56.32' | 5.0   | 1.2W | 22 | 89  | 3   | 0.19 |
| 170708 | 09:24:21.46 | 40° 27.32' | 111° 55.20' | 8.0   | 0.8W | 16 | 171 | 3   | 0.11 |
| 170708 | 11:58:45.37 | 38° 28.63' | 112° 51.89' | -0.4  | -0.8 | 9  | 155 | 2   | 0.09 |
| 170708 | 11:59:06.23 | 38° 28.73' | 112° 51.75' | -1.9  | -0.3 | 8  | 163 | 2   | 0.11 |
| 170708 | 12:01:41.50 | 38° 28.75' | 112° 51.20' | -0.5  | -0.5 | 9  | 195 | 2   | 0.09 |
| 170708 | 12:04:08.15 | 38° 28.65' | 112° 51.85' | -0.4  | -0.6 | 9  | 158 | 2   | 0.12 |
| 170708 | 13:36:28.64 | 38° 28.62' | 112° 51.55' | -1.9  | -0.6 | 9  | 176 | 2   | 0.13 |
| 170708 | 13:47:14.04 | 40° 28.68' | 111° 56.43' | 5.4   | 1.3W | 14 | 134 | 3   | 0.19 |
| 170708 | 13:50:54.68 | 38° 28.77' | 112° 51.08' | -0.5  | -0.4 | 8  | 200 | 2   | 0.08 |
| 170710 | 04:22:32.17 | 41° 55.91' | 112° 32.11' | -3.0* | 1.5W | 18 | 133 | 17  | 0.13 |
| 170710 | 07:07:15.88 | 37° 22.93' | 114° 02.42' | 7.5*  | 1.9W | 16 | 68  | 28  | 0.19 |
| 170710 | 07:25:45.63 | 37° 22.85' | 114° 02.38' | 6.7*  | 1.8W | 13 | 115 | 28  | 0.19 |
| 170710 | 07:44:19.39 | 37° 21.39' | 114° 00.62' | 9.0*  | 1.2W | 9  | 245 | 24  | 0.10 |
| 170710 | 07:58:07.32 | 37° 22.05' | 114° 00.21' | 7.1*  | 1.3W | 8  | 243 | 25  | 0.14 |

**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170710 | 08:03:41.29 | 37° 22.80' | 114° 01.69' | 6.9*  | 1.1W | 12 | 168 | 27  | 0.21 |
| 170710 | 08:18:46.32 | 37° 22.61' | 114° 02.65' | 13.1* | 0.8W | 8  | 172 | 27  | 0.14 |
| 170710 | 13:45:04.32 | 37° 23.01' | 114° 02.47' | 6.0*  | 1.4W | 12 | 114 | 28  | 0.18 |
| 170711 | 17:01:52.80 | 37° 23.62' | 114° 06.29' | 7.6*  | 2.1W | 11 | 123 | 31  | 0.11 |
| 170711 | 18:57:54.65 | 37° 23.47' | 114° 05.70' | 5.4*  | 1.4W | 8  | 162 | 31  | 0.12 |
| 170711 | 19:55:40.25 | 40° 28.59' | 111° 56.48' | 5.6   | 1.2W | 14 | 135 | 3   | 0.15 |
| 170711 | 20:51:23.03 | 42° 13.94' | 111° 37.02' | 5.1*  | 2.0W | 10 | 267 | 19  | 0.15 |
| 170712 | 11:54:34.77 | 36° 59.81' | 113° 44.91' | 6.9*  | 1.1  | 10 | 177 | 23  | 0.19 |
| 170712 | 14:41:50.81 | 36° 58.96' | 113° 33.76' | 13.3  | 3.4W | 38 | 103 | 8   | 0.21 |
| 170712 | 17:51:26.19 | 41° 07.09' | 112° 05.76' | 11.4  | 0.8  | 11 | 118 | 16  | 0.08 |
| 170714 | 09:22:55.35 | 39° 42.28' | 110° 41.87' | -2.4  | 2.1W | 13 | 94  | 5   | 0.07 |
| 170714 | 23:30:36.02 | 40° 50.22' | 111° 45.82' | 5.3   | 1.5W | 19 | 68  | 7   | 0.13 |
| 170715 | 12:22:26.84 | 40° 29.85' | 111° 57.23' | 4.4   | 1.2  | 7  | 135 | 5   | 0.09 |
| 170715 | 14:38:31.54 | 38° 50.55' | 111° 55.74' | 11.5  | 1.9W | 26 | 54  | 20  | 0.19 |
| 170715 | 17:16:31.64 | 37° 00.85' | 113° 53.65' | 11.8  | 1.2W | 8  | 204 | 15  | 0.20 |
| 170715 | 18:41:29.62 | 40° 56.72' | 112° 26.97' | 4.7   | 0.6W | 8  | 105 | 8   | 0.03 |
| 170715 | 23:43:45.80 | 36° 55.64' | 112° 27.51' | 9.5   | 1.2W | 7  | 175 | 17  | 0.35 |
| 170716 | 21:09:41.08 | 41° 43.12' | 111° 40.81' | 5.4*  | 2.4W | 33 | 88  | 12  | 0.18 |
| 170716 | 21:15:38.53 | 41° 42.89' | 111° 40.41' | 7.8   | 1.5W | 12 | 89  | 13  | 0.09 |
| 170716 | 21:49:12.28 | 41° 42.89' | 111° 40.55' | 8.1   | 1.2W | 12 | 89  | 12  | 0.09 |
| 170717 | 09:13:56.93 | 41° 51.93' | 111° 30.56' | 4.0*  | 1.0W | 10 | 125 | 22  | 0.06 |
| 170717 | 09:14:43.23 | 41° 52.22' | 111° 30.63' | 1.4*  | 1.1W | 9  | 123 | 22  | 0.08 |
| 170717 | 10:15:00.05 | 41° 51.98' | 111° 30.63' | 6.8*  | 1.1W | 12 | 114 | 22  | 0.05 |
| 170717 | 11:39:39.44 | 41° 52.05' | 111° 30.19' | 6.3*  | 1.6W | 15 | 116 | 23  | 0.12 |
| 170717 | 14:33:20.69 | 41° 51.98' | 111° 30.28' | 4.5*  | 1.3W | 11 | 116 | 23  | 0.10 |
| 170719 | 00:01:36.97 | 41° 03.06' | 111° 40.80' | 8.6   | 1.7W | 9  | 102 | 13  | 0.13 |
| 170719 | 02:51:23.42 | 41° 51.45' | 111° 30.46' | 3.8*  | 0.9  | 10 | 127 | 22  | 0.09 |
| 170719 | 18:06:09.96 | 39° 41.67' | 110° 43.42' | -3.2  | 1.4  | 6  | 146 | 4   | 0.08 |
| 170719 | 18:07:09.10 | 39° 41.68' | 110° 43.15' | -2.9  | 1.3  | 6  | 144 | 4   | 0.08 |
| 170719 | 18:18:23.93 | 40° 20.32' | 111° 35.71' | 9.8   | 1.2W | 21 | 112 | 10  | 0.13 |
| 170720 | 00:00:59.84 | 37° 51.12' | 112° 22.39' | 6.0*  | 1.4  | 10 | 129 | 45  | 0.22 |
| 170720 | 10:02:30.40 | 41° 52.13' | 111° 30.22' | 7.3*  | 1.4W | 10 | 125 | 23  | 0.11 |
| 170721 | 02:36:19.04 | 41° 52.54' | 111° 30.18' | 8.6*  | 1.0W | 11 | 114 | 23  | 0.13 |
| 170721 | 02:40:24.67 | 41° 52.07' | 111° 30.09' | 6.7*  | 1.0W | 12 | 116 | 23  | 0.07 |
| 170721 | 04:16:10.00 | 41° 51.90' | 111° 30.32' | 8.2*  | 1.3W | 14 | 116 | 23  | 0.08 |
| 170721 | 04:57:58.75 | 38° 50.10' | 111° 55.55' | 11.2  | 1.5W | 19 | 50  | 20  | 0.17 |
| 170725 | 03:46:14.18 | 39° 17.60' | 111° 12.17' | -2.6  | 1.5  | 11 | 124 | 1   | 0.11 |
| 170725 | 05:58:04.16 | 41° 44.86' | 111° 39.82' | 13.5  | 1.3W | 15 | 77  | 11  | 0.07 |
| 170725 | 06:02:43.88 | 41° 45.18' | 111° 39.90' | 13.5  | 0.6  | 9  | 203 | 10  | 0.08 |
| 170725 | 13:36:43.52 | 38° 11.96' | 112° 37.89' | 7.4*  | 0.8  | 14 | 62  | 34  | 0.09 |
| 170725 | 19:27:44.95 | 38° 17.73' | 112° 40.68' | 10.9* | 0.3  | 7  | 265 | 24  | 0.07 |
| 170727 | 02:11:52.97 | 41° 53.67' | 112° 36.08' | 9.1*  | 0.7  | 6  | 211 | 19  | 0.03 |
| 170727 | 04:29:03.24 | 38° 22.20' | 113° 05.56' | 9.4   | 1.6W | 19 | 105 | 0   | 0.23 |
| 170727 | 15:49:32.46 | 38° 07.77' | 112° 50.75' | 3.5*  | 0.6  | 9  | 183 | 14  | 0.13 |
| 170727 | 16:32:20.29 | 38° 16.09' | 112° 37.74' | 7.5*  | 2.3W | 33 | 44  | 29  | 0.17 |

**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170727 | 16:55:52.02 | 38° 16.16' | 112° 37.88' | 7.6   | 1.4W | 18 | 132 | 2   | 0.12 |
| 170728 | 20:52:40.76 | 38° 32.28' | 112° 12.93' | 1.2   | 1.1W | 10 | 134 | 4   | 0.08 |
| 170728 | 20:53:13.55 | 38° 31.80' | 112° 12.33' | 4.3   | 0.8  | 6  | 195 | 3   | 0.08 |
| 170729 | 10:18:06.39 | 36° 50.58' | 112° 51.67' | 25.0  | 1.3W | 10 | 168 | 20  | 0.11 |
| 170801 | 11:36:43.65 | 38° 02.37' | 112° 38.17' | 9.1*  | 1.8W | 24 | 89  | 33  | 0.16 |
| 170801 | 15:48:24.72 | 39° 28.29' | 111° 13.06' | 5.6*  | 1.0W | 7  | 186 | 19  | 0.04 |
| 170802 | 00:49:22.46 | 37° 14.33' | 113° 11.46' | 19.6  | 1.0W | 11 | 146 | 14  | 0.11 |
| 170802 | 10:57:02.55 | 40° 50.51' | 110° 51.72' | 6.9   | 0.9  | 11 | 199 | 13  | 0.21 |
| 170802 | 11:45:42.98 | 37° 05.24' | 112° 54.90' | 12.3  | 0.9W | 12 | 122 | 11  | 0.15 |
| 170802 | 12:26:51.14 | 37° 40.30' | 112° 57.67' | 8.1   | 1.4W | 19 | 81  | 14  | 0.10 |
| 170802 | 20:35:01.49 | 39° 32.22' | 112° 13.49' | 3.1*  | 1.9W | 19 | 59  | 18  | 0.24 |
| 170803 | 12:31:39.64 | 37° 40.12' | 112° 56.27' | 2.6*  | 1.2W | 14 | 92  | 16  | 0.09 |
| 170804 | 04:20:16.68 | 42° 14.68' | 111° 36.44' | 12.0  | 1.2W | 13 | 152 | 20  | 0.08 |
| 170804 | 21:19:13.08 | 37° 46.07' | 112° 36.15' | 7.1*  | 2.1W | 24 | 64  | 44  | 0.18 |
| 170805 | 15:36:30.33 | 36° 48.13' | 114° 02.39' | 2.7*  | 1.4  | 11 | 149 | 40  | 0.18 |
| 170805 | 22:45:38.64 | 39° 56.75' | 111° 51.70' | 5.5   | 0.8  | 8  | 79  | 9   | 0.05 |
| 170806 | 01:06:22.03 | 39° 56.54' | 111° 51.56' | 3.1   | 0.9W | 10 | 100 | 8   | 0.16 |
| 170806 | 04:07:58.67 | 40° 04.82' | 111° 23.44' | 13.5  | 1.5W | 23 | 65  | 22  | 0.21 |
| 170806 | 05:22:06.15 | 41° 00.69' | 111° 26.30' | 12.7  | 1.0  | 11 | 97  | 12  | 0.17 |
| 170806 | 14:36:49.15 | 37° 41.13' | 112° 57.82' | 9.0   | 1.3W | 14 | 104 | 15  | 0.14 |
| 170807 | 06:31:18.84 | 37° 10.45' | 112° 56.02' | 21.5  | 0.0W | 10 | 166 | 20  | 0.08 |
| 170808 | 04:07:42.61 | 37° 51.39' | 113° 04.57' | 6.8*  | 1.2W | 7  | 168 | 28  | 0.12 |
| 170808 | 04:44:10.75 | 37° 17.46' | 112° 51.07' | 18.8  | 0.6W | 11 | 101 | 25  | 0.10 |
| 170808 | 07:28:04.80 | 38° 11.99' | 110° 51.89' | 3.6*  | 1.3W | 12 | 83  | 31  | 0.25 |
| 170809 | 11:57:47.31 | 37° 39.08' | 112° 57.30' | 4.6*  | 1.4W | 11 | 217 | 13  | 0.12 |
| 170809 | 15:38:53.44 | 37° 58.71' | 112° 55.58' | 13.9  | 1.3W | 19 | 88  | 15  | 0.15 |
| 170809 | 16:32:57.55 | 38° 24.97' | 112° 57.71' | 4.2   | 0.7  | 17 | 125 | 10  | 0.09 |
| 170809 | 17:01:09.99 | 38° 14.34' | 112° 11.75' | 6.0*  | 1.4W | 19 | 89  | 22  | 0.24 |
| 170810 | 01:19:17.98 | 41° 01.05' | 110° 50.29' | 14.2  | 1.8W | 19 | 131 | 19  | 0.26 |
| 170810 | 04:10:14.89 | 41° 00.57' | 110° 50.02' | 19.5  | 1.9W | 17 | 174 | 19  | 0.15 |
| 170810 | 15:01:18.96 | 37° 41.50' | 112° 57.26' | 8.7   | 1.4W | 9  | 284 | 16  | 0.07 |
| 170810 | 21:19:25.96 | 38° 04.79' | 112° 23.11' | 5.5*  | 1.9W | 23 | 120 | 18  | 0.16 |
| 170811 | 01:01:29.69 | 37° 50.77' | 113° 04.64' | 6.4*  | 1.2W | 13 | 114 | 28  | 0.22 |
| 170811 | 01:36:32.91 | 41° 01.57' | 110° 48.41' | 14.2  | 1.7W | 15 | 164 | 22  | 0.23 |
| 170811 | 08:25:58.18 | 37° 41.41' | 112° 59.07' | 13.1  | 1.2  | 14 | 87  | 8   | 0.16 |
| 170811 | 22:51:46.93 | 37° 50.65' | 113° 39.08' | 4.3*  | 1.4W | 13 | 174 | 20  | 0.20 |
| 170812 | 04:34:17.10 | 40° 40.46' | 111° 36.38' | 10.5  | 0.4  | 12 | 119 | 10  | 0.15 |
| 170812 | 17:31:30.21 | 37° 40.11' | 112° 57.14' | 6.2*  | 0.9W | 10 | 142 | 14  | 0.06 |
| 170813 | 20:02:17.87 | 37° 52.27' | 112° 30.09' | 3.4*  | 1.4W | 20 | 58  | 34  | 0.26 |
| 170814 | 00:56:28.64 | 40° 59.22' | 110° 51.25' | 14.5  | 1.1W | 12 | 211 | 16  | 0.29 |
| 170814 | 02:43:43.62 | 40° 58.88' | 111° 37.54' | 18.0  | 0.8W | 16 | 73  | 18  | 0.12 |
| 170814 | 03:05:24.27 | 39° 00.48' | 111° 20.22' | 6.3*  | 0.9W | 10 | 84  | 17  | 0.21 |
| 170814 | 14:34:00.79 | 37° 35.06' | 113° 16.53' | 3.6   | 0.9W | 7  | 200 | 9   | 0.02 |
| 170814 | 14:34:46.32 | 37° 39.17' | 113° 16.61' | 7.3   | 0.0  | 8  | 230 | 14  | 0.07 |
| 170814 | 22:01:18.19 | 39° 42.82' | 110° 37.54' | -2.2  | 1.5  | 10 | 85  | 4   | 0.05 |

**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170815 | 05:48:55.23 | 41° 00.66' | 110° 50.12' | 21.1  | 1.4  | 16 | 190 | 19  | 0.10 |
| 170815 | 09:19:45.44 | 41° 00.44' | 110° 50.35' | 17.0  | 1.1  | 11 | 214 | 18  | 0.16 |
| 170815 | 15:46:43.47 | 41° 00.93' | 110° 50.09' | 18.9  | 1.8W | 15 | 190 | 19  | 0.16 |
| 170815 | 16:15:16.65 | 41° 00.29' | 110° 50.45' | 20.7  | 1.4  | 14 | 189 | 18  | 0.15 |
| 170815 | 21:47:20.21 | 38° 11.35' | 112° 36.44' | 6.7*  | 2.3W | 21 | 49  | 35  | 0.09 |
| 170817 | 08:40:03.29 | 38° 07.87' | 112° 38.84' | 10.2* | 2.3W | 30 | 37  | 31  | 0.18 |
| 170817 | 14:31:00.20 | 38° 16.81' | 108° 54.10' | 0.8   | 1.2W | 12 | 84  | 3   | 0.19 |
| 170817 | 16:49:06.05 | 38° 16.76' | 108° 53.77' | 1.1   | 1.9  | 12 | 84  | 3   | 0.19 |
| 170818 | 06:10:42.62 | 37° 43.20' | 113° 09.01' | 4.6   | 1.3  | 9  | 200 | 9   | 0.25 |
| 170818 | 06:58:42.70 | 37° 40.61' | 113° 09.32' | 2.1   | 1.2  | 8  | 156 | 6   | 0.24 |
| 170818 | 07:07:27.51 | 37° 43.05' | 113° 10.29' | 1.6*  | 1.0W | 18 | 60  | 15  | 0.24 |
| 170818 | 07:11:33.28 | 37° 43.59' | 113° 10.12' | 1.4   | 0.9  | 12 | 157 | 10  | 0.18 |
| 170818 | 07:38:39.49 | 37° 42.83' | 113° 09.84' | 0.6   | 1.1  | 18 | 71  | 9   | 0.19 |
| 170818 | 09:16:28.40 | 37° 43.31' | 113° 10.06' | 0.1   | 1.0W | 25 | 56  | 9   | 0.21 |
| 170818 | 09:57:32.47 | 37° 42.64' | 113° 09.42' | 0.7   | 1.1  | 17 | 156 | 8   | 0.20 |
| 170818 | 10:16:55.66 | 37° 43.24' | 113° 09.97' | 1.7   | 1.3  | 14 | 194 | 9   | 0.13 |
| 170818 | 10:51:23.69 | 37° 43.10' | 113° 09.18' | 5.0   | 1.0  | 10 | 197 | 8   | 0.25 |
| 170818 | 11:25:49.66 | 37° 42.23' | 113° 10.43' | -1.4  | 1.4W | 22 | 108 | 9   | 0.23 |
| 170818 | 12:03:00.00 | 37° 42.60' | 113° 08.50' | 5.5   | 1.0  | 11 | 194 | 7   | 0.13 |
| 170818 | 12:13:25.03 | 37° 43.34' | 113° 08.89' | 5.3   | 1.1W | 11 | 203 | 8   | 0.16 |
| 170818 | 12:14:54.40 | 37° 43.50' | 113° 10.25' | -0.3  | 1.8W | 30 | 40  | 9   | 0.21 |
| 170818 | 12:15:21.90 | 37° 42.06' | 113° 08.65' | 0.6   | 1.9  | 13 | 114 | 6   | 0.17 |
| 170818 | 12:49:33.53 | 37° 43.96' | 113° 09.39' | 1.5   | 1.2W | 16 | 113 | 9   | 0.24 |
| 170818 | 13:54:09.71 | 37° 43.88' | 113° 09.69' | 6.0*  | 1.7W | 22 | 48  | 16  | 0.22 |
| 170818 | 14:23:18.53 | 37° 43.10' | 113° 11.27' | 5.5*  | 1.0W | 12 | 106 | 16  | 0.33 |
| 170818 | 15:41:32.61 | 37° 43.23' | 113° 08.66' | 1.6   | 1.2  | 12 | 109 | 8   | 0.18 |
| 170818 | 18:11:11.33 | 37° 43.15' | 113° 09.66' | 0.3   | 1.1W | 13 | 93  | 9   | 0.21 |
| 170819 | 00:32:51.36 | 41° 55.71' | 112° 48.36' | 8.8   | 1.9W | 17 | 233 | 17  | 0.15 |
| 170819 | 01:00:12.89 | 37° 44.19' | 113° 03.34' | 1.7*  | 0.4  | 9  | 158 | 16  | 0.25 |
| 170819 | 22:27:36.60 | 40° 43.08' | 112° 05.93' | 7.8   | 1.0W | 11 | 107 | 7   | 0.12 |
| 170820 | 06:23:36.46 | 37° 41.38' | 112° 44.67' | 7.2*  | 1.8W | 16 | 74  | 32  | 0.15 |
| 170820 | 17:05:19.23 | 38° 35.28' | 112° 35.27' | 1.0*  | 0.3  | 11 | 187 | 12  | 0.09 |
| 170820 | 22:06:58.97 | 41° 42.31' | 112° 04.25' | 3.9   | 1.3  | 15 | 73  | 7   | 0.16 |
| 170821 | 08:38:23.93 | 37° 40.96' | 112° 57.91' | 8.7   | 1.1W | 18 | 66  | 15  | 0.16 |
| 170821 | 08:44:48.55 | 37° 41.07' | 112° 57.83' | 9.2   | 1.4W | 17 | 73  | 15  | 0.10 |
| 170821 | 08:51:22.12 | 37° 40.81' | 112° 58.59' | 8.4   | 1.0W | 11 | 110 | 14  | 0.08 |
| 170821 | 08:54:34.38 | 37° 40.31' | 112° 57.75' | 8.7   | 0.9W | 16 | 119 | 10  | 0.05 |
| 170821 | 09:11:44.01 | 37° 40.16' | 112° 57.46' | 7.0   | 1.1W | 12 | 163 | 14  | 0.08 |
| 170821 | 09:14:19.46 | 37° 41.53' | 112° 57.94' | 10.1  | 0.9W | 15 | 101 | 11  | 0.09 |
| 170821 | 09:32:21.44 | 37° 40.90' | 112° 57.76' | 8.1   | 1.0W | 16 | 104 | 15  | 0.09 |
| 170821 | 13:30:43.85 | 37° 16.10' | 114° 06.02' | 12.1  | 1.0  | 11 | 151 | 20  | 0.16 |
| 170821 | 15:37:00.46 | 38° 44.60' | 111° 41.08' | 19.6  | 1.7W | 14 | 72  | 23  | 0.17 |
| 170821 | 21:56:58.74 | 41° 59.16' | 112° 33.59' | 0.9*  | 0.6  | 8  | 151 | 18  | 0.05 |
| 170822 | 01:26:58.63 | 39° 57.33' | 111° 56.91' | 7.1   | 0.9W | 10 | 105 | 11  | 0.07 |
| 170822 | 01:27:06.96 | 38° 13.93' | 112° 21.25' | 5.9*  | 0.4  | 9  | 140 | 26  | 0.08 |

**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170822 | 02:45:50.23 | 38° 43.63' | 112° 31.77' | 4.8*  | 1.9W | 11 | 123 | 15  | 0.16 |
| 170822 | 03:13:29.60 | 38° 40.74' | 112° 31.63' | 8.8   | 1.0W | 13 | 94  | 10  | 0.16 |
| 170822 | 04:13:13.96 | 37° 44.93' | 112° 38.12' | 8.2*  | 0.9  | 11 | 88  | 43  | 0.19 |
| 170822 | 19:59:43.59 | 39° 26.73' | 111° 08.62' | 6.4*  | 1.0W | 7  | 148 | 15  | 0.05 |
| 170823 | 13:35:12.54 | 41° 59.21' | 112° 33.52' | 0.5*  | 1.4W | 19 | 149 | 18  | 0.13 |
| 170824 | 02:06:39.71 | 37° 33.21' | 113° 03.32' | 5.4   | 1.4W | 21 | 51  | 5   | 0.15 |
| 170824 | 07:08:37.61 | 37° 24.18' | 113° 48.07' | 1.2   | 1.1  | 10 | 113 | 8   | 0.07 |
| 170824 | 18:10:33.18 | 38° 08.63' | 113° 07.68' | 10.3  | 1.1W | 10 | 195 | 12  | 0.15 |
| 170825 | 03:32:02.08 | 42° 29.74' | 111° 06.47' | -1.6* | 1.1  | 10 | 144 | 30  | 0.16 |
| 170826 | 10:10:02.98 | 39° 24.12' | 111° 37.61' | 10.8  | 1.3W | 12 | 121 | 20  | 0.12 |
| 170826 | 16:00:09.34 | 37° 29.84' | 112° 29.50' | 12.4  | 1.5W | 15 | 99  | 17  | 0.21 |
| 170826 | 16:03:59.04 | 38° 34.52' | 112° 34.19' | 1.3*  | 1.0  | 10 | 174 | 11  | 0.08 |
| 170826 | 19:16:11.77 | 38° 34.79' | 112° 34.23' | 1.0*  | 0.8  | 12 | 149 | 11  | 0.07 |
| 170826 | 19:44:23.21 | 38° 36.53' | 112° 34.85' | 0.1*  | 1.3  | 13 | 80  | 12  | 0.06 |
| 170827 | 21:37:02.61 | 38° 34.54' | 112° 35.10' | 0.1*  | 0.8  | 14 | 77  | 13  | 0.15 |
| 170828 | 03:12:36.26 | 38° 49.86' | 109° 14.03' | 4.4*  | 1.8W | 19 | 99  | 37  | 0.14 |
| 170828 | 07:52:21.59 | 38° 34.36' | 112° 35.04' | 0.0*  | 0.7W | 16 | 97  | 13  | 0.10 |
| 170828 | 09:30:45.44 | 38° 09.14' | 113° 08.10' | 1.8*  | 1.0  | 12 | 101 | 13  | 0.06 |
| 170828 | 18:55:42.10 | 41° 49.68' | 112° 41.94' | 7.9   | 2.1W | 17 | 194 | 8   | 0.21 |
| 170828 | 18:55:42.19 | 41° 49.81' | 112° 41.19' | 6.0   | 2.0W | 18 | 148 | 9   | 0.18 |
| 170829 | 01:23:19.62 | 41° 00.25' | 110° 50.47' | 20.7  | 1.8W | 11 | 189 | 18  | 0.08 |
| 170829 | 09:41:54.17 | 39° 31.30' | 111° 59.20' | 11.9  | 1.5  | 9  | 116 | 15  | 0.15 |
| 170829 | 15:29:09.18 | 36° 48.70' | 112° 23.21' | 20.5* | 1.5W | 12 | 120 | 43  | 0.14 |
| 170830 | 11:09:23.89 | 38° 28.13' | 112° 47.80' | 2.9   | 0.1  | 11 | 185 | 6   | 0.06 |
| 170830 | 12:37:32.07 | 38° 28.07' | 112° 47.65' | 2.0   | -0.5 | 11 | 186 | 6   | 0.01 |
| 170830 | 14:33:01.27 | 38° 28.09' | 112° 47.47' | 1.6   | 0.2  | 9  | 199 | 6   | 0.01 |
| 170831 | 05:19:58.44 | 37° 25.80' | 113° 07.33' | 11.7  | 1.0W | 8  | 173 | 8   | 0.04 |
| 170831 | 05:25:57.68 | 37° 25.81' | 113° 07.52' | 11.1  | 0.7W | 10 | 110 | 8   | 0.06 |
| 170831 | 05:26:49.34 | 37° 25.68' | 113° 07.38' | 9.3   | 0.6W | 9  | 140 | 8   | 0.05 |
| 170831 | 05:30:51.63 | 37° 25.87' | 113° 07.41' | 11.5  | 0.1  | 7  | 173 | 8   | 0.04 |
| 170831 | 05:30:57.65 | 37° 25.98' | 113° 07.48' | 11.1  | 1.0W | 8  | 171 | 9   | 0.04 |
| 170831 | 05:39:36.70 | 37° 25.83' | 113° 07.52' | 11.0  | 1.0W | 9  | 171 | 8   | 0.06 |
| 170831 | 18:35:35.58 | 41° 54.90' | 112° 34.97' | 5.2*  | 1.1W | 16 | 144 | 21  | 0.09 |
| 170831 | 18:40:52.77 | 41° 55.14' | 112° 35.35' | 7.3*  | 1.0W | 12 | 147 | 22  | 0.16 |
| 170831 | 19:10:52.47 | 41° 54.93' | 112° 35.18' | 4.8*  | 1.0W | 13 | 145 | 22  | 0.11 |
| 170831 | 19:21:51.78 | 41° 54.41' | 112° 34.80' | 5.2*  | 1.6W | 23 | 141 | 21  | 0.13 |
| 170831 | 21:14:30.11 | 41° 54.59' | 112° 35.26' | 5.6*  | 1.2  | 15 | 144 | 21  | 0.14 |
| 170901 | 00:30:58.58 | 41° 54.85' | 112° 35.29' | 3.1*  | 1.0  | 14 | 145 | 22  | 0.14 |
| 170901 | 11:49:47.84 | 36° 46.68' | 112° 55.12' | 17.2  | 2.0W | 15 | 162 | 28  | 0.20 |
| 170901 | 13:51:30.45 | 38° 36.58' | 112° 34.76' | 1.4*  | 0.7  | 11 | 203 | 12  | 0.06 |
| 170902 | 14:38:54.60 | 41° 39.67' | 111° 39.66' | 15.6  | 1.0  | 11 | 91  | 10  | 0.08 |
| 170902 | 20:06:00.23 | 38° 18.70' | 108° 53.63' | 2.4   | 2.0W | 11 | 98  | 2   | 0.09 |
| 170903 | 00:44:04.49 | 42° 29.45' | 111° 39.25' | 6.2*  | 2.2  | 9  | 266 | 43  | 0.22 |
| 170903 | 05:02:45.12 | 38° 13.94' | 112° 15.75' | 1.8*  | 0.9W | 12 | 77  | 22  | 0.26 |
| 170903 | 21:25:02.13 | 39° 31.36' | 110° 20.94' | 1.6*  | 1.4W | 15 | 132 | 11  | 0.11 |

**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170904 | 23:57:34.01 | 38° 28.14' | 112° 48.85' | 5.3   | 1.5W | 17 | 116 | 4   | 0.09 |
| 170905 | 06:12:43.51 | 37° 57.66' | 112° 56.06' | 10.8  | 1.7W | 24 | 92  | 17  | 0.23 |
| 170906 | 10:54:25.60 | 41° 31.63' | 111° 46.87' | 5.8*  | 0.1  | 8  | 168 | 20  | 0.06 |
| 170906 | 16:26:53.56 | 37° 51.68' | 112° 32.65' | 7.8*  | 2.6W | 27 | 69  | 37  | 0.27 |
| 170906 | 17:03:34.43 | 41° 55.49' | 112° 25.99' | -0.1  | 0.8  | 10 | 104 | 9   | 0.16 |
| 170906 | 17:40:25.72 | 41° 55.14' | 112° 26.13' | 0.0   | 1.6W | 21 | 103 | 9   | 0.19 |
| 170907 | 04:47:45.12 | 39° 24.40' | 111° 50.56' | 6.7   | 1.0  | 11 | 119 | 11  | 0.22 |
| 170907 | 22:12:31.19 | 37° 47.70' | 113° 08.05' | 8.8*  | 1.2  | 8  | 260 | 23  | 0.07 |
| 170909 | 20:19:06.80 | 39° 16.94' | 111° 12.36' | -3.3  | 1.3  | 7  | 76  | 2   | 0.19 |
| 170911 | 04:45:33.67 | 39° 45.99' | 110° 55.03' | 0.9   | 1.6  | 10 | 177 | 10  | 0.30 |
| 170911 | 08:32:14.68 | 41° 41.17' | 109° 51.08' | 9.4*  | 2.6W | 11 | 158 | 96  | 0.08 |
| 170912 | 04:04:53.58 | 40° 34.12' | 111° 03.56' | 7.1*  | 1.3  | 15 | 159 | 18  | 0.13 |
| 170912 | 11:03:58.51 | 38° 20.06' | 112° 25.81' | 2.6*  | 1.7W | 28 | 85  | 27  | 0.17 |
| 170914 | 08:54:32.87 | 40° 07.24' | 108° 49.64' | -3.2* | 2.5W | 17 | 88  | 50  | 0.20 |
| 170914 | 10:54:13.81 | 42° 17.38' | 111° 23.79' | 7.5*  | 0.8  | 14 | 82  | 17  | 0.16 |
| 170914 | 11:58:46.64 | 37° 33.69' | 112° 30.37' | 15.7  | 1.9W | 15 | 100 | 22  | 0.25 |
| 170914 | 15:43:48.66 | 41° 40.50' | 111° 38.41' | 10.2  | 1.5W | 19 | 61  | 10  | 0.11 |
| 170914 | 19:59:46.75 | 40° 07.56' | 108° 49.76' | 5.9*  | 2.4W | 10 | 139 | 50  | 0.14 |
| 170914 | 21:43:57.90 | 38° 44.80' | 112° 44.28' | 7.7*  | 1.4W | 13 | 125 | 27  | 0.16 |
| 170915 | 03:39:10.29 | 40° 08.38' | 108° 49.91' | 6.0*  | 2.4W | 12 | 142 | 50  | 0.09 |
| 170916 | 08:00:09.69 | 38° 19.25' | 113° 03.18' | 0.6   | 0.8  | 15 | 91  | 6   | 0.08 |
| 170918 | 16:10:55.75 | 39° 44.63' | 110° 50.13' | 1.7   | 1.6  | 8  | 159 | 8   | 0.28 |
| 170918 | 17:21:18.46 | 40° 42.05' | 111° 36.55' | 11.0  | 3.3W | 58 | 32  | 10  | 0.20 |
| 170918 | 18:42:12.64 | 40° 41.43' | 111° 36.82' | 8.8   | 1.2W | 20 | 79  | 11  | 0.17 |
| 170918 | 21:27:07.49 | 40° 41.43' | 111° 36.44' | 6.4   | 0.7  | 10 | 101 | 11  | 0.12 |
| 170919 | 00:45:43.97 | 41° 16.68' | 111° 42.73' | 11.7  | 0.9  | 12 | 112 | 22  | 0.12 |
| 170919 | 01:08:55.54 | 41° 16.07' | 111° 42.61' | 2.9*  | 0.9  | 11 | 109 | 27  | 0.12 |
| 170919 | 01:12:10.25 | 41° 16.41' | 111° 42.92' | 12.5  | 2.7W | 57 | 84  | 22  | 0.22 |
| 170919 | 01:17:21.16 | 41° 16.38' | 111° 42.43' | 13.5  | 1.5W | 21 | 86  | 22  | 0.17 |
| 170919 | 01:20:51.56 | 41° 16.46' | 111° 42.84' | 9.1*  | 1.0W | 13 | 112 | 27  | 0.22 |
| 170919 | 17:22:29.72 | 41° 39.60' | 111° 47.04' | 1.2*  | 0.9  | 10 | 107 | 16  | 0.04 |
| 170921 | 11:24:10.13 | 37° 30.00' | 112° 50.04' | 12.3* | 1.8  | 11 | 155 | 25  | 0.16 |
| 170921 | 14:58:54.63 | 38° 16.95' | 108° 53.95' | 1.2   | 1.9W | 12 | 84  | 3   | 0.12 |
| 170922 | 08:23:24.64 | 38° 17.17' | 108° 54.11' | 1.0   | 2.0W | 9  | 83  | 3   | 0.17 |
| 170923 | 11:43:37.86 | 40° 16.46' | 111° 20.44' | 3.2*  | 1.0  | 14 | 163 | 36  | 0.16 |
| 170923 | 12:55:38.59 | 37° 00.05' | 112° 53.45' | 18.3  | 1.4W | 14 | 134 | 6   | 0.14 |
| 170924 | 04:38:44.13 | 38° 36.90' | 112° 03.36' | 7.1*  | 3.3W | 33 | 51  | 18  | 0.24 |
| 170924 | 04:39:31.91 | 38° 35.80' | 112° 03.82' | 13.4  | 2.7W | 13 | 156 | 17  | 0.17 |
| 170924 | 04:46:57.67 | 38° 36.39' | 112° 02.51' | 7.1*  | 1.5W | 22 | 67  | 19  | 0.18 |
| 170924 | 14:05:48.29 | 38° 18.49' | 108° 53.73' | 2.5   | 2.0W | 16 | 97  | 2   | 0.11 |
| 170924 | 15:43:11.10 | 38° 35.70' | 112° 02.74' | 10.2  | 1.5W | 19 | 69  | 18  | 0.22 |
| 170924 | 16:00:39.82 | 38° 18.75' | 108° 53.94' | 1.6   | 1.7W | 15 | 97  | 3   | 0.16 |
| 170924 | 17:06:46.97 | 38° 38.06' | 112° 33.44' | -2.3  | 0.7  | 14 | 61  | 10  | 0.12 |
| 170925 | 05:03:23.31 | 38° 10.87' | 112° 46.30' | 2.3*  | 0.9  | 14 | 92  | 16  | 0.13 |
| 170925 | 08:13:29.02 | 38° 59.58' | 111° 26.90' | -0.4  | 2.2W | 21 | 66  | 8   | 0.18 |



**Table 2. Earthquakes in the Utah Region: July1–September 30, 2017**

| DATE   | ORIGIN TIME | LATITUDE   | LONGITUDE   | DEPTH | MAG  | NO | GAP | DMN | RMS  |
|--------|-------------|------------|-------------|-------|------|----|-----|-----|------|
| 170925 | 18:45:38.37 | 41° 52.35' | 112° 42.77' | 5.0*  | 1.3W | 17 | 180 | 12  | 0.11 |
| 170926 | 03:29:42.40 | 39° 45.23' | 110° 56.59' | 3.4*  | 1.7  | 8  | 191 | 13  | 0.20 |
| 170926 | 11:08:06.98 | 38° 45.37' | 112° 28.89' | 9.3   | 1.7W | 14 | 64  | 17  | 0.15 |
| 170926 | 14:59:35.14 | 41° 56.42' | 112° 05.44' | 4.2   | 1.0  | 12 | 78  | 10  | 0.12 |
| 170927 | 15:23:02.48 | 38° 28.16' | 112° 47.33' | 2.0   | -0.3 | 11 | 293 | 6   | 0.05 |
| 170927 | 21:49:04.80 | 41° 30.98' | 112° 17.66' | 2.0   | 1.2  | 18 | 92  | 9   | 0.15 |
| 170927 | 22:36:10.95 | 41° 31.07' | 112° 17.86' | 3.9   | 1.1W | 18 | 92  | 9   | 0.15 |
| 170928 | 01:01:48.37 | 38° 54.30' | 111° 56.76' | 8.4   | 2.9W | 35 | 42  | 14  | 0.20 |
| 170928 | 06:01:12.19 | 41° 30.85' | 112° 17.15' | 1.6   | 1.3W | 17 | 83  | 9   | 0.13 |
| 170929 | 01:27:15.99 | 38° 55.28' | 111° 56.20' | 10.6  | 2.5W | 29 | 36  | 14  | 0.21 |
| 170929 | 01:27:52.16 | 41° 09.04' | 111° 41.22' | 12.6  | 1.3  | 9  | 151 | 12  | 0.29 |
| 170929 | 05:20:04.80 | 41° 06.51' | 111° 33.00' | 19.6  | 1.1W | 10 | 98  | 12  | 0.13 |
| 170929 | 08:34:13.05 | 38° 11.20' | 112° 46.71' | 4.9*  | 1.8W | 26 | 48  | 16  | 0.20 |
| 170929 | 09:36:16.47 | 41° 16.11' | 111° 46.36' | 12.5  | 1.2  | 29 | 73  | 16  | 0.21 |
| 170929 | 14:13:56.45 | 42° 01.87' | 112° 30.40' | 2.7*  | 1.6W | 17 | 137 | 13  | 0.11 |
| 170929 | 15:15:39.21 | 42° 01.53' | 112° 30.13' | -0.7* | 1.3  | 12 | 135 | 14  | 0.10 |
| 170929 | 18:56:21.07 | 41° 31.25' | 112° 17.94' | 3.0   | 0.9W | 16 | 92  | 9   | 0.10 |
| 170930 | 09:39:08.80 | 38° 57.77' | 111° 24.68' | -1.4* | 1.1W | 12 | 75  | 20  | 0.12 |
| 170930 | 12:20:47.79 | 37° 45.85' | 110° 38.10' | 13.1  | 2.6W | 20 | 111 | 21  | 0.21 |
| 170930 | 12:47:01.73 | 41° 41.57' | 112° 50.45' | 6.5   | 0.8  | 14 | 196 | 11  | 0.06 |

number of earthquakes = 290

\* 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, 2017**

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

| UURSN<br>Code | Location  | SEED<br>Station | SEED<br>Channel    | No. of<br>Channels | Network<br>Code | Latitude   | Longitude   | Elevation<br>(meters) | Sensor                    | Digitizer | Telemetry | Sponsor       |
|---------------|---|-----------------|--------------------|--------------------|-----------------|------------|-------------|-----------------------|---------------------------|-----------|-----------|---------------|
| 7229          | City Maintenance Shop<br>Santaquin, UT            | 7229            | HN[ZEN]            | 3                  | NP              | 39° 58.35' | 111° 47.58' | 1520                  | EpiSensor                 | Etna      | Digital   | NSMP,<br>ANSS |
| 7232          | City Parks & Recreation Office<br>Tremonton, UT   | 7232            | HN[ZEN]            | 3                  | NP              | 41° 43.13' | 112° 10.91' | 1320                  | EpiSensor                 | Etna      | Digital   | NSMP,<br>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          |
| ALT           | Alta City Offices, Alta, UT                       | ALT             | EN[ZEN]            | 3                  | UU              | 40° 35.42' | 111° 38.25' | 2635                  | Applied<br>Mems           | ANSS-130  | Digital   | ANSS          |
| AMF           | Tri-Cities Golf Course<br>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                       | PSN       | Analog    | Utah          |
| ARUT          | Antelope Range, UT                                | ARUT            | EHZ                | 1                  | UU              | 37° 47.28' | 113° 26.42' | 1646                  | L4C                       | PSN       | Analog    | Utah          |
| AVE           | Avenues, Salt Lake City, UT                       | AVE             | EN[ZEN]            | 3                  | UU              | 40° 46.47' | 111° 51.83' | 1387                  | Applied<br>Mems           | ANSS-130  | Digital   | ANSS          |
| B206          | Canyon206bwy2008, Yellowstone, WY                 | B206            | EH[ZEN]            | 3                  | PB              | 44° 46.66' | 110° 30.70' | 2400                  | IESE-S2                   | Q330      | Digital   | PBO           |
| B207          | Madisn207bwy2007, Yellowstone, WY                 | B207            | EH[ZEN]            | 3                  | PB              | 44° 37.14' | 110° 50.91' | 2182                  | IESE-S2                   | Q330      | Digital   | PBO           |
| B208          | Lakejn208bwy2008, Yellowstone, WY                 | B208            | EH[ZEN]            | 3                  | PB              | 44° 33.61' | 110° 24.09' | 2406                  | IESE-S2                   | Q330      | Digital   | PBO           |
| B944          | Grantt944bwy2008, Yellowstone, WY                 | B944            | EH[ZEN]            | 3                  | PB              | 44° 23.38' | 110° 32.63' | 2365                  | IESE-S2                   | Q330      | Digital   | PBO           |
| B945          | Pantr944swy2008, Yellowstone, WY                  | B945            | EH[ZEN]            | 3                  | PB              | 44° 53.64' | 110° 44.65' | 2249                  | IESE-S2                   | Q330      | Digital   | PBO           |
| B950          | Norris950bwy2013, Yellowstone, WY                 | B950            | EH[ZEN]            | 3                  | PB              | 44° 42.77' | 110° 40.71' | 2328                  | IESE-S2                   | Q330      | Digital   | PBO           |
| BCE           | Book Cliffs East, UT                              | BCE             | EHZ<br>EN[ZEN]     | 4                  | UU              | 39° 36.79' | 110° 24.51' | 2666                  | L4C<br>EpiSensor          | K2        | Digital   | Utah          |
| BCS           | Brigham City Maintenance Shop<br>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<br>EN[ZEN]     | 4                  | UU              | 39° 43.82' | 110° 44.55' | 2614                  | L4C<br>EpiSensor          | K2        | Digital   | Utah          |
| BEI           | Bear River Range, ID                              | BEI             | EHZ                | 1                  | UU              | 42° 07.00' | 111° 46.94' | 1859                  | L4C                       | PSN       | Analog    | USGS          |
| BES           | Bates Elementary School<br>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]<br>HH[ZEN] | 3<br>3             | UU              | 40° 55.53' | 113° 01.79' | 1640                  | EpiSensor<br>Trillium 120 | Q330      | Digital   | ANSS          |

| UURSN | Location                                     | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor    |
|-------|--|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|------------|
| Code  |  | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |            |
| BHU   | Blowhard Mountain, UT                        | BHU     | EH[ZEN] | 3        | UU      | 37° 35.63' | 112° 51.72' | 3250      | S13          | PSN       | Analog    | Utah       |
| BHUT  | Beaver High School, UT                       | BHUT    | EN[ZEN] | 3        | UU      | 38° 16.61' | 112° 38.42' | 1799      | PA-23        | SMART-24  | Digital   | Utah       |
| BMUT  | Black Mountain, UT                           | BMUT    | EHZ     | 1        | UU      | 41° 57.49' | 111° 14.05' | 2243      | S13          | PSN       | Analog    | USGS       |
| BOZ   | Bozeman, MT                                  | BOZ     | BH[ZEN] | 3        | US      | 45° 38.82' | 111° 37.78' | 1589      | *            | *         | Digital   | USGS       |
| BRPU  | Butcher Ranch, Price, UT                     | BRPU    | HH[ZEN] | 3        | UU      | 39° 28.38' | 110° 44.40' | 1687      | Trillium 240 | Q330      | Digital   | Utah       |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| BSS   | Butlerville Substation<br>Salt Lake City, UT | BSS     | EN[ZEN] | 3        | UU      | 40° 37.45' | 111° 49.37' | 1411      | EpiSensor    | K2        | Digital   | ANSS       |
| BSUT  | Blindstream Canyon, Hanna, UT                | BSUT    | HH[ZEN] | 3        | UU      | 40° 32.19' | 110° 45.67' | 3211      | Trillium 120 | Q330      | Digital   | Utah       |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| BTU   | Barney Top, UT                               | BTU     | EHZ     | 1        | UU      | 37° 45.34' | 111° 52.46' | 3235      | S13          | PSN       | Analog    | Utah       |
| BW0   | Boulder, WY                                  | BW06    | BH[ZEN] | 3        | US      | 42° 46.00' | 109° 33.50' | 2224      | *            | *         | Digital   | USGS       |
| BYP   | Brigham Young Park<br>Salt Lake City, UT     | BYP     | EN[ZEN] | 3        | UU      | 40° 46.26' | 111° 53.23' | 1323      | Applied Mems | ANSS-130  | 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<br>Copperton, UT      | CFS     | EN[ZEN] | 3        | UU      | 40° 33.96' | 112° 05.61' | 1654      | EpiSensor    | K2        | Digital   | ANSS       |
| CHS   | Copper Hills High School,<br>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   | INL        |
| COY   | Coyote Canyon,<br>Tooele Valley, UT          | COY     | EN[ZEN] | 3        | UU      | 40° 39.56' | 112° 14.34' | 1572      | Applied Mems | ANSS-130  | Digital   | ANSS       |
| CRLU  | Curley Ranch, La Sal, UT                     | CRLU    | EHZ     | 1        | UU      | 38° 17.50' | 109° 15.64' | 2035      | L4C          | Basalt    | Digital   | Utah, USGS |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | Episensor    |           |           |            |
| CRMZ  | Chrome Mountain, MT                          | CRMT    | EHZ     | 1        | MGB     | 45° 27.35' | 110° 08.41' | 2941      | *            | *         | Analog    | MBMT       |

| UURSN | Location   | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor |
|-------|--|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|---------|
| Code  |  | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |         |
| 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    |
| CVRU  | Castle Valley Ranch, Emery, UT                                     | CVRU    | HH[ZEN] | 3        | UU      | 38° 55.06' | 111° 10.30' | 1912      | STS-2        | Q330      | Digital   | Utah    |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |         |
| CWR   | Coldwater Ranch, Paradise, UT                                      | 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          | PSN       | Analog    | USGS    |
| DAU   | Daniels Canyon, UT   | DAU     | EHZ     | 1        | UU      | 40° 24.75' | 111° 15.35' | 2771      | S13          | PSN       | Analog    | USGS    |
| DBD   | Des Bee Dove, UT   | DBD     | EHZ     | 1        | UU      | 39° 18.82' | 111° 05.55' | 2265      | L4C          | PSN       | Analog    | Utah    |
| DCM   | Dugout Coal Mine, UT   | DCM     | EHZ     | 1        | UU      | 39° 41.70' | 110° 35.00' | 2537      | L4C          | Basalt    | Digital   | Utah    |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |         |
| DCU   | Deer Creek Reservoir, UT   | DCU     | 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 | DOT     | EN[ZEN] | 3        | UU      | 40° 43.61' | 111° 57.65' | 1282      | Applied Mems | ANSS-130  | Digital   | ANSS    |
| DUG   | Dugway, UT   | DUG     | BH[ZEN] | 3        | US      | 40° 11.70' | 112° 48.80' | 1477      | STS-2        | Q330      | Digital   | USGS    |
| DVCI  | Devils Canyon, ID  | DVCI    | HH[ZEN] | 3        | IE      | 44° 22.99' | 114° 02.31' | 1997      | Trillium 120 | Q330      | Digital   | INL     |
| DWU   | Dry Willow, UT   | DWU     | EHZ     | 1        | UU      | 38° 06.32' | 112° 59.85' | 2270      | S13          | PSN       | Analog    | Utah    |
| ECR   | Eagle Creek, ID  | ECRI    | EHZ     | 1        | IE      | 43° 03.24' | 111° 22.26' | 2086      | *            | *         | Digital   | INL     |
| EKU   | East Kanab, UT   | EKU     | EHZ     | 1        | UU      | 37° 04.48' | 112° 29.81' | 1829      | S13          | PSN       | 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          | PSN       | 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] | 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                      | EOCU    | EN[ZEN] | 3        | UU      | 40° 46.62' | 111° 53.95' | 1356      | EpiSensor    | Basalt    | Digital   | Utah    |
| EPU   | East Promontory, UT  | EPU     | EHZ     | 1        | UU      | 41° 23.49' | 112° 24.53' | 1436      | L4C          | PSN       | 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        | Basalt    | Digital   | USGS    |
|       |  |         | EN[ZEN] | 3        |         |            |             |           |              |           |           |         |

| UURSN | Location  | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor    |
|-------|---|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|------------|
| Code  |   | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |            |
| FLWY  | Flagg Ranch, WY                                 | FLWY    | BH[ZEN] | 3        | IW      | 44° 04.96' | 110° 41.96' | 2078      | 3ESP         | RT-130    | Digital   | ANSS       |
| FMC   | FMC Mine, Green River, WY                       | FMC     | HH[ZEN] | 3        | UU      | 41° 24.49' | 109° 46.67' | 1903      | 40T          | RT-130    | Digital   | Utah       |
| FOR1  | Milford Southwest, UT                           | FOR1    | HH[ZEN] | 3        | UU      | 38° 22.13' | 113° 05.63' | 1642      | Trillium 120 | Centaur   | Digital   | Utah       |
| FOR2  | Blundell East, UT                               | FOR2    | HH[ZEN] | 3        | UU      | 38° 29.70' | 112° 52.34' | 1760      | Trillium 120 | Centaur   | Digital   | Utah       |
| FOR3  | Blundell North, UT                              | FOR3    | HH[ZEN] | 3        | UU      | 38° 30.80' | 112° 52.85' | 1699      | Trillium 120 | Centaur   | Digital   | Utah       |
| FOR4  | Blundell West, UT                               | FOR4    | HH[ZEN] | 3        | UU      | 38° 29.92' | 112° 53.79' | 1657      | Trillium 120 | ANSS-130  | Digital   | Utah       |
| FORU  | South Mineral Mountains, UT                     | FORU    | HH[ZEN] | 3        | UU      | 38° 27.53' | 112° 51.68' | 1840      | 40T          | ANSS-130  | Digital   | Utah       |
| FPU   | Francis Peak, UT                                | FPU     | EHZ     | 1        | UU      | 41° 01.58' | 111° 50.21' | 2816      | L4C          | PSN       | Analog    | USGS       |
| FSU   | Fish Springs, UT                                | FSU     | EHZ     | 1        | UU      | 39° 43.35' | 113° 23.48' | 1487      | 18300        | PSN       | 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       |
| GBI   | Big Grassy Butte, ID                            | GBI     | EHZ     | 1        | IE      | 43° 59.22' | 112° 03.78' | 1541      | *            | *         | Digital   | INL        |
| GCAZ  | Grand Canyon, AZ                                | GCAZ    | EHZ     | 1        | AR      | 36° 03.51' | 112° 11.02' | 2072      | *            | *         | 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] | 3        | UU      | 40° 34.53' | 111° 45.79' | 1829      | S13          | PSN       | Analog    | USGS       |
| GRR   | Grays Lake, ID                                  | GRR1    | EHZ     | 1        | IE      | 42° 56.28' | 111° 25.32' | 2207      | *            | *         | Digital   | INL        |
| GZU   | Grizzly Peak, UT                                | GZU     | EH[ZEN] | 3        | UU      | 41° 25.53' | 111° 58.50' | 2646      | S13          | PSN       | Analog    | USGS       |
| H17A  | Grant Village (YNP), WY                         | H17A    | BH[ZEN] | 3        | TA      | 44° 23.71' | 110° 34.57' | 2400      | STS-2        | Q330      | Digital   | NSF        |
| HAFB  | Hill Air Force Base, Hill AFB, UT               | HAFB    | EN[ZEN] | 3        | UU      | 41° 07.07' | 111° 58.55' | 1471      | Applied Mems | ANSS-130  | Digital   | Utah       |
| HCSU  | Hobble Creek, Springville, UT                   | HCSU    | EHZ     | 1        | UU      | 40° 12.40' | 111° 30.14' | 1789      | L4C          | Basalt    | Digital   | Utah, USGS |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| HDU   | Hyde Park, UT                                   | HDU     | EHZ     | 1        | UU      | 41° 48.18' | 111° 45.99' | 1807      | L4C          | PSN       | Analog    | USGS       |
| HEB   | Heber, UT                                       | HEB     | EHZ     | 1        | UU      | 40° 30.09' | 111° 20.15' | 1925      | S13          | PSN       | 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   | INL        |
| 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          | PSN       | Analog    | Utah       |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | FBA23        |           |           |            |

| UURSN<br>Code | Location  | SEED<br>Station | SEED<br>Channel | No. of<br>Channels | Network<br>Code | Latitude   | Longitude   | Elevation<br>(meters) | Sensor       | Digitizer | Telemetry | Sponsor          |
|---------------|---|-----------------|-----------------|--------------------|-----------------|------------|-------------|-----------------------|--------------|-----------|-----------|------------------|
| HMU           | Henry Mountain, UT                                    | HMU             | HH[ZEN]         | 3                  | UU              | 37° 56.28' | 110° 44.51' | 2430                  | Trillium 120 | Q330      | Digital   | Utah             |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |                  |
| 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          |           |           |                  |
| HRU           | Hogsback Ridge, UT                                    | HRU             | EHZ             | 1                  | UU              | 40° 47.67' | 111° 53.14' | 1620                  | Ranger       | PSN       | Analog    | USGS             |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | Applied Mems |           |           |                  |
| HTU           | Hoyt, UT  | HTU             | EHZ             | 1                  | UU              | 40° 40.52' | 111° 13.21' | 2576                  | L4C          | PSN       | Analog    | USGS             |
|               |   |                 | EHZ             | 1                  |                 |            |             |                       | Episensor    | Basalt    | Digital   |                  |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       |              |           |           |                  |
| HVVU          | Hansel Valley, UT                                     | HVVU            | HH[ZEN]         | 3                  | UU              | 41° 46.78' | 112° 46.50' | 1609                  | Trillium 120 | Q330      | Digital   | USGS             |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |                  |
| 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          | PSN       | Analog    | Utah             |
| IMU           | Iron Mountain, UT                                     | IMU             | EHZ             | 1                  | UU              | 38° 37.99' | 113° 09.50' | 1833                  | L4C          | PSN       | Analog    | Utah             |
| IMW           | Indian Meadows, WY                                    | IMW             | BH[ZEN]         | 3                  | IW              | 43° 53.58' | 110° 56.58' | 2670                  | 3ESP         | RT-130    | Digital   | ANSS             |
| ISCO          | Idaho Springs, CO                                     | ISCO            | BH[ZEN]         | 3                  | US              | 39° 47.98' | 105° 36.80' | 2743                  | STS-2        | Q330      | 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         |           |           |                  |
| 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             |
| 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          | PSN       | 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        |           |           |                  |

| UURSN<br>Code | Location                                  | SEED<br>Station | SEED<br>Channel | No. of<br>Channels | Network<br>Code | Latitude   | Longitude   | Elevation<br>(meters) | Sensor       | Digitizer | Telemetry | Sponsor |
|---------------|---|-----------------|-----------------|--------------------|-----------------|------------|-------------|-----------------------|--------------|-----------|-----------|---------|
| 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          | PSN       | Analog    | Utah    |
| LEVU          | Levan, UT                                 | LEVU            | EHZ             | 1                  | UU              | 39° 30.39' | 111° 48.88' | 1996                  | L4C          | Basalt    | Digital   | USGS    |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |         |
| 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          | PSN       | Analog    | Utah    |
| LIUT          | Lila Canyon, UT                           | LIUT            | HH[ZEN]         | 3                  | UU              | 39° 25.45' | 110° 19.51' | 2178                  | Trillium 120 | Centaur   | Digital   | 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    |
| LMUT          | Lake Mountain, UT                         | LMUT            | EN[ZEN]         | 3                  | UU              | 40° 15.69' | 111° 55.69' | 2330                  | 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 Logan, UT         | 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          | PSN       | Analog    | USGS    |
|               |   |                 | EHZ             | 1                  |                 |            |             |                       | EpiSensor    | Basalt    | Digital   |         |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       |              |           |           |         |
| MAB           | Mapleton Ambulance Building Mapleton, UT  | MAB             | EN[ZEN]         | 3                  | UU              | 40° 07.85' | 111° 34.67' | 1440                  | EpiSensor    | K2        | Digital   | ANSS    |
| MCID          | Moose Creek, ID                           | MCID            | EHZ             | 1                  | WY              | 44° 11.45' | 111° 11.03' | 2137                  | L4C          | PSN       | Analog    | USGS    |
| MCU           | Monte Cristo Peak, UT                     | MCU             | EHZ             | 1                  | UU              | 41° 27.70' | 111° 30.45' | 2664                  | 18300        | PSN       | Analog    | USGS    |
| MGCU          | Grand County Courthouse, Moab, UT         | MGCU            | EN[ZEN]         | 3                  | UU              | 38° 34.46' | 109° 32.89' | 1241                  | EpiSensor    | K2        | Digital   | Utah    |
| MHD           | Mile High Drive, UT                       | MHD             | EHZ             | 1                  | UU              | 40° 39.64' | 111° 48.05' | 1597                  | Ranger       | Basalt    | Digital   | USGS    |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |         |
| 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          | Basalt    | Digital   | USGS    |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |         |
| MMU           | Miners Mountain, UT                       | MMU             | EHZ             | 1                  | UU              | 38° 11.57' | 111° 17.66' | 2387                  | S13          | PSN       | Analog    | Utah    |
| MOMZ          | Monida, MT                                | MOMT            | EHZ             | 1                  | MB              | 44° 35.60' | 112° 23.66' | 2220                  | *            | *         | Analog    | MBMT    |



| UURSN<br>Code | Location                                   | SEED<br>Station | SEED<br>Channel | No. of<br>Channels | Network<br>Code | Latitude   | Longitude   | Elevation<br>(meters) | Sensor       | Digitizer | Telemetry | Sponsor    |
|---------------|--|-----------------|-----------------|--------------------|-----------------|------------|-------------|-----------------------|--------------|-----------|-----------|------------|
| MOOW          | Moose Ponds, WY                            | MOOW            | BH[ZEN]         | 3                  | IW              | 43° 44.92' | 110° 44.69' | 2128                  | 3ESP         | RT-130    | Digital   | ANSS       |
| 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          | PSN       | 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                  |                 |            |             |                       | 3ESP         | ANSS-130  | Digital   | USGS       |
| MSU           | Marysvale, UT                              | MSU             | EHZ             | 1                  | UU              | 38° 30.74' | 112° 10.63' | 2105                  | 18300        | PSN       | Analog    | Utah       |
| 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          | PSN       | 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          | PSN       | 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]         | 3                  | UU              | 38° 30.99' | 112° 51.00' | 1853                  | S13          | PSN       | Analog    | Utah       |
| NOQ           | North Oquirrh Mountains, UT                | NOQ             | 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                        | NPI             | EHZ             | 1                  | UU              | 42° 08.84' | 112° 31.10' | 1640                  | L4C          | Basalt    | Digital   | ANSS       |
|               |  |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |            |
| O20A          | White River City, CO                       | O20A            | BH[ZEN]         | 3                  | TA              | 40° 08.09' | 108° 14.50' | 1915                  | STS-2        | Q330      | Digital   | NCF        |
| 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<br>Ogden, UT        | OF2             | EN[ZEN]         | 3                  | UU              | 41° 13.70' | 111° 56.92' | 1358                  | EpiSensor    | K2        | Digital   | ANSS       |
| OPS           | Ogden Public Safety Building,<br>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          | PSN       | Analog    | Utah       |
| PCCW          | Pine Creek, Cokeville, WY                  | PCCW            | EHZ             | 1                  | UU              | 42° 05.97' | 110° 52.36' | 1996                  | L4C          | Basalt    | Digital   | Utah, USGS |
|               |  |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |            |

| UURSN | Location  | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor          | Digitizer    | Telemetry | Sponsor |
|-------|---|---------|---------|----------|---------|------------|-------------|-----------|-----------------|--------------|-----------|---------|
| Code  |   | Station | Channel | Channels | Code    |            |             | (meters)  |                 |              |           |         |
| PCL   | Plain City Landfill<br>Plain City, UT                     | PCL     | EN[ZEN] | 3        | UU      | 41° 18.60' | 112° 06.00' | 1290      | Applied<br>Mems | ANSS-130     | Digital   | ANSS    |
| PCR   | Park City Recreation Center<br>Park City, UT              | PCR     | EN[ZEN] | 3        | UU      | 40° 39.25' | 111° 30.19' | 2100      | EpiSensor       | K2           | Digital   | ANSS    |
| PEUT  | Richfield, Pahvant Elementary School,<br>UT               | PEUT    | EN[ZEN] | 3        | UU      | 38° 46.55' | 112° 05.32' | 1644      | PA-23           | SMART-<br>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   | PKCU    | HH[ZEN] | 3        | UU      | 37° 26.63' | 112° 18.66' | 2834      | Trillium 120    | SMART-<br>24 | Digital   | Utah    |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | PA-23           |              |           |         |
| PNSU  | Preston Nutter Ranch,<br>Sunnyside, UT                    | PNSU    | HH[ZEN] | 3        | UU      | 39° 37.67' | 110° 14.74' | 2743      | Trillium 240    | Q330         | Digital   | Utah    |
| PRN   | Pahroc, Range, NV   | PRN     | HH[ZEN] | 3        | NN      | 37° 24.40' | 115° 03.05' | 1402      | Trillium 120    | ANSS-130     | 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   | INL     |
| PTU   | Portage, UT   | PTU     | EHZ     | 1        | UU      | 41° 55.76' | 112° 19.48' | 2192      | L4C             | Basalt       | Digital   | ANSS    |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor       |              |           |         |
| QBHW  | Bridle Trail Rd, Draper, UT                               | QBHW    | HN[ZEN] | 3        | UU      | 40° 30.23' | 111° 51.35' | 1400      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QBNA  | E. Dillons Dr., Saratoga Springs, UT                      | QBNA    | HN[ZEN] | 3        | UU      | 40° 21.42' | 111° 57.91' | 1461      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QCSP  | White Pine Dr., Tooele, UT                                | QCSP    | 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                              | QCWC    | 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,<br>Salt Lake City, UT | QDPS    | HN[ZEN] | 3        | UU      | 40° 45.60' | 111° 50.46' | 1460      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QFTG  | N 450 E St., Springville, UT                              | QFTG    | HN[ZEN] | 3        | UU      | 40° 10.42' | 111° 36.12' | 1395      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QJHW  | Red Rock Ranch, Teton County, WY                          | QJHW    | 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                               | QJMH    | HN[ZEN] | 3        | UU      | 40° 42.21' | 111° 51.97' | 1312      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QJOT  | Whileaway Rd., Snyderville, UT                            | QJOT    | HN[ZEN] | 3        | UU      | 40° 44.50' | 111° 41.68' | 1977      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QKSL2 | Lehi, UT  | QKSL2   | HN[ZEN] | 3        | UU      | 40° 15.98' | 111° 50.07' | 1371      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QLIN  | 884 E 490 N, Lindon, UT                                   | QLIN    | HN[ZEN] | 3        | UU      | 40° 20.83' | 111° 29.63' | 1538      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QLMZ  | Earthquake Lake, MT                                       | QLMT    | EHZ     | 1        | MB      | 44° 49.84' | 111° 25.80' | 2064      | *               | *            | Analog    | MBMT    |
| QMDS  | S 2600 E, Salt Lake City, UT                              | QMDS    | HN[ZEN] | 3        | UU      | 40° 43.74' | 111° 48.97' | 1405      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |
| QNRL  | E 500 N, Logan, UT  | QNRL    | HN[ZEN] | 3        | UU      | 40° 44.44' | 111° 49.49' | 1407      | Gsig-AC63       | Gsig-GMS     | Digital   | ANSS    |

| UURSN | Location   | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor    |
|-------|--|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|------------|
| Code  |  | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |            |
| QOGD  | 1723 N 900 E, North Ogden, UT                      | QOGD    | HN[ZEN] | 3        | UU      | 41° 17.38' | 111° 57.11' | 1361      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QPAY  | N 300 E Payson, UT                                 | QPAY    | HN[ZEN] | 3        | UU      | 40° 03.18' | 111° 43.70' | 1404      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QPML  | S Whitesides St., Layton, UT                       | QPML    | HN[ZEN] | 3        | UU      | 40° 03.47' | 111° 57.23' | 1334      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QRJG  | N 1450 E, Provo, UT                                | QRJG    | HN[ZEN] | 3        | UU      | 40° 15.65' | 111° 37.96' | 1530      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QSAR2 | Saratoga Springs, UT                               | QSAR2   | HN[ZEN] | 3        | UU      | 40° 20.17' | 111° 55.43' | 1420      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QSPA  | 520 S, Spanish Fork, UT                            | QSPA    | HN[ZEN] | 3        | UU      | 40° 17.47' | 111° 52.95' | 1413      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QSTV  | S City Vistas Way, Kearns,, UT                     | QSTV    | HN[ZEN] | 3        | UU      | 40° 40.25' | 112° 02.18' | 1416      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QSUN  | 1412 N 350 W, Sunset, UT                           | QSUN    | HN[ZEN] | 3        | UU      | 41° 08.04' | 112° 01.97' | 1373      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QVOL  | 955 W Topaz, St. George, UT                        | QVOL    | HN[ZEN] | 3        | UU      | 37° 15.68' | 113° 36.14' | 1435      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| QUGS  | 240 N Redwood Road, SLC, UT                        | QUGS    | HN[ZEN] | 3        | UU      | 40° 46.45' | 111° 56.32' | 1300      | Gsig-AC63    | Gsig-GMS  | Digital   | ANSS       |
| R11A  | Troy Canyon, Currant, NV                           | R11A    | BH[ZEN] | 3        | TA      | 38° 20.93' | 115° 35.12' | 1756      | STS-2        | Q330      | Digital   | NCF        |
| RBUZ  | Red Butte Canyon, UT                               | RBU     | EHZ     | 1        | UU      | 40° 46.85' | 111° 48.50' | 1676      | L4C          | Basalt    | Digital   | USGS       |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| RCJZ  | Ross Creek, UT                                     | RCJ     | EHZ     | 1        | UU      | 40° 39.51' | 111° 26.36' | 2090      | S13          | PSN       | Analog    | Utah       |
| 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       |
| ROA   | Roan Cliffs, UT                                    | ROA     | EHZ     | 1        | UU      | 39° 39.69' | 110° 21.88' | 2962      | S13          | PSN       | 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       |
| RRCU  | Rees Ranch, Coalville, UT                          | RRCU    | EHZ     | 1        | UU      | 40° 53.21' | 111° 26.22' | 2028      | L4C          | Basalt    | Digital   | Utah, USGS |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| RRWY  | Rawlins, WY  | RRWY    | BH[ZEN] | 3        | IW      | 41° 41.33' | 107° 12.61' | 2402      | 3ESP         | RT-130    | Digital   | ANSS       |
| RSUT  | Red Spur, UT                                       | RSUT    | EHZ     | 1        | UU      | 41° 38.31' | 111° 25.90' | 2682      | S13          | Basalt    | Digital   | USGS       |
|       |  |         | EN[ZEN] | 3        |         |            |             |           | EpiSensor    |           |           |            |
| SAIU  | South Antelope Island, UT                          | SAIU    | 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                | 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       |

| UURSN<br>Code | Location  | SEED<br>Station | SEED<br>Channel | No. of<br>Channels | Network<br>Code | Latitude   | Longitude   | Elevation<br>(meters) | Sensor       | Digitizer | Telemetry | Sponsor          |
|---------------|---|-----------------|-----------------|--------------------|-----------------|------------|-------------|-----------------------|--------------|-----------|-----------|------------------|
| 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                  | SGSU            | 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        | PSN       | Analog    | USGS             |
| SHP           | Sheep Range, NV                                 | SHP             | 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     | 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       | PSN       | Analog    | Utah             |
| SNOW          | Snowking Mountain, WY                           | SNOW            | BH[ZEN]         | 3                  | IW              | 43° 27.75' | 110° 45.31' | 2390                  | 3ESP         | RT-130    | Digital   | ANSS             |
| SMAZ          | Slide Mountain, AZ                              | SMAZ            | EHZ             | 1                  | AR              | 36° 19.29' | 113° 10.14' | 2200                  | *            | *         | Analog    | NAU              |
| SNUT          | Stansbury North, UT                             | SNUT            | EHZ             | 1                  | UU              | 40° 53.10' | 112° 30.52' | 1652                  | 18300        | PSN       | Analog    | USGS             |
|               |   |                 | EHZ             | 1                  |                 |            |             |                       |              | Basalt    | Digital   |                  |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       |              | EpiSensor |           |                  |
| 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    | ANSS-130  | Digital   | ANSS             |
|               |   |                 | HH[ZEN]         | 3                  |                 |            |             |                       | 3ESP         |           |           |                  |
| SRU           | San Rafael Swell, UT                            | SRU             | EHZ             | 1                  | UU              | 39° 06.65' | 110° 31.43' | 1804                  | S13          | PSN       | 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        | PSN       | Analog    | USGS             |
| SWUT          | Soap Wash, Delta, UT                            | SWUT            | EN[ZEN]         | 3                  | UU              | 39° 19.72' | 113° 11.72' | 1644                  | EpiSensor    | Q330      | Digital   | Utah             |
|               |   |                 | HH[ZEN]         | 3                  |                 |            |             |                       | Trillium 120 |           |           |                  |
| 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        |           |           |                  |
| TCMU          | Timpanogos Cave Mouth, UT                       | TCMU            | EHZ             | 1                  | UU              | 40° 26.26' | 111° 42.71' | 2045                  | L4C          | Basalt    | Digital   | Utah             |
|               |   |                 | EN[ZEN]         | 3                  |                 |            |             |                       | EpiSensor    |           |           |                  |

| UURSN | Location  | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor    |
|-------|---|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|------------|
| Code  |   | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |            |
| 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    | ANSS-130  | Digital   | ANSS       |
|       |   |         | HH[ZEN] | 3        |         |            |             |           | 3ESP         |           |           |            |
| TCUT  | Toone Canyon, UT  | TCUT    | EHZ     | 1        | UU      | 41° 07.07' | 111° 24.51' | 2320      | L4C          | PSN       | Analog    | USGS       |
| TMI   | Taylor Mountain, ID   | TMI     | EHZ     | 1        | IE      | 43° 18.30' | 111° 55.08' | 2179      | *            | *         | Digital   | INL        |
| TMU   | Trail Mountain, UT  | TMU     | 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  | TPAW    | BH[ZEN] | 3        | IW      | 43° 29.41' | 110° 57.04' | 2512      | 3ESP         | RT-130    | Digital   | ANSS       |
| TPH   | Tonopah, NV   | TPH     | BH[ZEN] | 3        | LB      | 38° 04.50' | 117° 13.35' | 1883      | 3ESP         | Q330      | Digital   | Sandia     |
| TPMZ  | Teepee 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       |
| TRS   | Tooele County Radio Shop, Tooele, UT                        | TRS     | EN[ZEN] | 3        | UU      | 40° 30.83' | 112° 18.63' | 1568      | EpiSensor    | K2        | Digital   | ANSS       |
| U15A  | North Rim, AZ   | U15A    | BH[ZEN] | 3        | AE      | 36° 25.80' | 112° 17.40' | 2489      | Trillium 240 | Q330      | Digital   | AZGS       |
| 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       |
| V05   | E. Island Mesa, Paradox Basin, CO                           | PV05    | HH[ZEN] | 3        | RE      | 38° 08.87' | 108° 50.08' | 2142      | *            | *         | Digital   | USBR       |
| V11   | Davis Mesa, Paradox Basin, CO                               | PV11    | HH[ZEN] | 3        | RE      | 38° 17.96' | 108° 52.33' | 1881      | *            | *         | Digital   | USBR       |
| V15   | Pinto Mesa, Paradox Basin, CO                               | PV15    | HH[ZEN] | 3        | RE      | 38° 20.51' | 108° 28.66' | 2280      | *            | *         | Digital   | USBR       |
| V21   | Cone Mountain, Paradox Basin, CO                            | PV21    | HH[ZEN] | 3        | RE      | 38° 33.67' | 108° 58.50' | 2235      | *            | *         | Digital   | USBR       |
| 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       |
| VNL   | Vernal, UT  | VNL     | EN[ZEN] | 3        | UU      | 40° 27.48' | 109° 32.89' | 1648      | FBA23        | Etna      | Digital   | Utah       |
| VRUT  | Veyo Road, Veyo, UT   | VRUT    | 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                         | W13A    | BH[ZEN] | 3        | AE      | 35° 06.00' | 113° 53.40' | 1988      | 3T           | Q330      | Digital   | AZGS       |

| UURSN | Location  | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor          | Digitizer    | Telemetry | Sponsor |         |
|-------|---|---------|---------|----------|---------|------------|-------------|-----------|-----------------|--------------|-----------|---------|---------|
| Code  |   | Station | Channel | Channels | Code    |            |             | (meters)  |                 |              |           |         |         |
| WBC   | Weber Canyon, UT  | WBC     | EN[ZEN] | 3        | UU      | 41° 08.38' | 111° 54.05' | 1602      | EpiSensor       | K2           | Digital   | ANSS    |         |
| WCF   | Wellsville Fire Station,<br>Wellsville, UT                    | WCF     | EN[ZEN] | 3        | UU      | 41° 38.37' | 111° 55.94' | 1387      | Applied<br>Mems | ANSS-130     | Digital   | ANSS    |         |
| 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           | PSN          | Analog    | USGS    |         |
|       |   |         | EHZ     | 1        |         |            |             |           | EpiSensor       | Basalt       | Digital   |         |         |
|       |   |         | EN[ZEN] | 3        |         |            |             |           |                 |              |           |         |         |
| WDO   | Saint George, Washington County<br>School District Office, UT | WDO     | EN[ZEN] | 3        | UU      | 37° 06.46' | 113° 35.19' | 831       | PA-23           | SMART-<br>24 | Digital   | Utah    |         |
| WES   | Westminster College<br>Salt Lake City, UT                     | WES     | EN[ZEN] | 3        | UU      | 40° 43.97' | 111° 51.26' | 1341      | EpiSensor       | K2           | Digital   | ANSS    |         |
| WHS   | West High School, SLC UT                                      | 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             | PSN          | Analog    | USGS    |         |
|       |   |         | EHZ     | 1        |         |            |             |           |                 | EpiSensor    | Basalt    |         | Digital |
|       |   |         | EN[ZEN] | 3        |         |            |             |           |                 |              |           |         |         |
| WPUT  | Wasatch Plateau, UT   | WPUT    | HH[ZEN] | 3        | UU      | 38° 59.85' | 111° 21.53' | 2618      | Trillium 120    | Taurus       | Digital   | Utah    |         |
| WRP   | Water Reclamation Plant<br>Salt Lake City, UT                 | WRP     | EN[ZEN] | 3        | UU      | 40° 48.82' | 111° 55.87' | 1286      | Applied<br>Mems | ANSS-130     | Digital   | ANSS    |         |
| WTNK  | 7433 Soaring Heights, NV                                      | WTNK    | HH[ZEN] | 3        | NN      | 36° 11.50' | 115° 00.64' | 676       | 3ESP            | ANSS-130     | Digital   | UNR     |         |
| WTU   | Western Traverse Mountains, UT                                | WTU     | EH[ZEN] | 4        | UU      | 40° 27.29' | 111° 57.21' | 1552      | S13             | PSN          | Analog    | USGS    |         |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | Applied<br>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             | PSN          | Analog    | USGS    |         |
| YDC   | Denny Creek, MT   | YDC     | EHZ     | 1        | WY      | 44° 42.51' | 111° 14.60' | 2025      | L4C             | PSN          | Analog    | USGS    |         |
| YEE   | East Entrance (YNP), WY                                       | YEE     | HH[ZEN] | 3        | WY      | 44° 29.12' | 109° 53.81' | 2270      | Compact         | Taurus       | Digital   | USGS    |         |
| YFT   | Old Faithful (YNP), WY  | YFT     | HH[ZEN] | 3        | WY      | 44° 27.05' | 110° 50.24' | 2292      | Compact         | Centaur      | Digital   | USGS    |         |
|       |   |         | EN[ZEN] | 3        |         |            |             |           | Titan           |              |           |         |         |
| YGC   | Grayling Creek, MT  | YGC     | EHZ     | 1        | WY      | 44° 47.77' | 111° 06.45' | 2075      | L4C             | PSN          | Analog    | USGS    |         |
| YHB   | Horse Butte, MT   | YHB     | EHZ     | 1        | WY      | 44° 45.07' | 111° 11.71' | 2157      | L4C             | PSN          | Analog    | USGS    |         |
|       |   |         | HH[ZEN] | 3        |         |            |             |           | Compact         | ANSS-130     | Digital   |         |         |
|       |   |         | EN[ZEN] | 3        |         |            |             |           |                 |              |           |         | Titan   |

| UURSN | Location                     | SEED    | SEED    | No. of   | Network | Latitude   | Longitude   | Elevation | Sensor       | Digitizer | Telemetry | Sponsor |
|-------|------------------------------|---------|---------|----------|---------|------------|-------------|-----------|--------------|-----------|-----------|---------|
| Code  |                              | Station | Channel | Channels | Code    |            |             | (meters)  |              |           |           |         |
| YHH   | Holmes Hill (YNP), WY        | YHH     | EHZ     | 1        | WY      | 44° 47.30' | 110° 51.03' | 2717      | S13          | PSN       | Analog    | USGS    |
|       |                              |         | HH[ZEN] | 3        |         |            |             |           | Trillium 120 |           |           |         |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        | Q330      | Digital   |         |
| YHL   | Hebgen Lake, MT              | YHL     | 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              | YHR     | HH[ZEN] | 3        | WY      | 44° 06.36' | 110° 04.90' | 2976      | Trillium 120 | Q330      | Digital   | USGS    |
| YJCZ  | Joseph's Coat (YNP), WY      | YJC     | EH[ZEN] | 3        | WY      | 44° 45.33' | 110° 20.95' | 2684      | S13          | PSN       | Analog    | USGS    |
| YLAZ  | Lake Butte (YNP), WY         | YLA     | EHZ     | 1        | WY      | 44° 30.76' | 110° 16.12' | 2580      | L4C          | PSN       | Analog    | USGS    |
| YLT   | Little Thumb Creek (YNP), WY | YLT     | EHZ     | 1        | WY      | 44° 26.25' | 110° 35.28' | 2439      | L4C          | PSN       | Analog    | USGS    |
| YMC   | Maple Creek (YNP), WY        | YMC     | EH[ZEN] | 3        | WY      | 44° 45.53' | 111° 00.41' | 2073      | S13          | PSN       | Analog    | USGS    |
| YML   | Mary Lake (YNP), WY          | YML     | EH[ZEN] | 3        | WY      | 44° 36.20' | 110° 38.63' | 2653      | L4C          | PSN       | Analog    | USGS    |
| YMP   | Mirror Plateau (YNP), WY     | YMP     | EHZ     | 1        | WY      | 44° 44.38' | 110° 09.40' | 2774      | S13          | PSN       | Analog    | USGS    |
|       |                              |         | HH[ZEN] | 3        |         |            |             |           | Trillium 120 |           |           |         |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        | Q330      | Digital   |         |
| YMR   | Madison River (YNP), WY      | YMR     | 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     | YMS     | EHZ     | 1        | WY      | 44° 15.84' | 110° 31.67' | 3106      | L4C          | PSN       | Analog    | USGS    |
| YMV   | Mammoth Vault (YNP), WY      | YMV     | EHZ     | 1        | WY      | 44° 58.42' | 110° 41.33' | 1829      | L4C          | PSN       | Analog    | USGS    |
| YNE   | Northeast Entrance (YNP), WY | YNE     | HH[ZEN] | 3        | WY      | 45° 00.46' | 110° 00.48' | 2343      | Compact      | ANSS-130  | Digital   | USGS    |
| YNM   | Norris Museum (YNP), WY      | YNM     | HH[ZEN] | 3        | WY      | 44° 43.59' | 110° 42.22' | 2311      | Trillium 240 | Q330      | Digital   | USGS    |
| YNR   | Norris Junction (YNP), WY    | YNR     | HH[ZEN] | 3        | WY      | 44° 42.93' | 110° 40.75' | 2336      | Trillium 120 | Q330      | Digital   | USGS    |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        |           |           |         |
| YPC   | Pelican Cone (YNP), WY       | YPC     | EHZ     | 1        | WY      | 44° 38.88' | 110° 11.55' | 2932      | L4C          | PSN       | Analog    | USGS    |
| YPK   | Parker Peak (YNP), WY        | YPK     | EH[ZEN] | 3        | WY      | 44° 43.91' | 109° 55.32' | 2897      | L4C          | PSN       | Analog    | USGS    |
| YPM   | Purple Mountain (YNP), WY    | YPM     | EHZ     | 1        | WY      | 44° 39.43' | 110° 52.12' | 2582      | L4C          | PSN       | Analog    | USGS    |
| YPP   | Pitchstone Plateau (YNP), WY | YPP     | EHZ     | 1        | WY      | 44° 16.26' | 110° 48.27' | 2707      | S13          | PSN       | Analog    | USGS    |
|       |                              |         | HH[ZEN] | 3        |         |            |             |           | Trillium 120 |           |           |         |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        | Q330      | Digital   |         |
| YSB   | Soda Butte (YNP), WY         | YSB     | EHZ     | 1        | WY      | 44° 53.04' | 110° 09.06' | 2072      | L4C          | PSN       | Analog    | USGS    |
| YTP   | The Promontory (YNP), WY     | YTP     | EHZ     | 1        | WY      | 44° 23.51' | 110° 17.10' | 2384      | L4           | PSN       | Analog    | USGS    |
|       |                              |         | HH[ZEN] | 3        |         |            |             |           | Trillium 120 |           |           |         |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        | Q330      | Digital   |         |
| YUF   | Upper Falls (YNP), WY        | YUF     | HH[ZEN] | 3        | WY      | 44° 42.76' | 110° 30.71' | 2394      | Compact      | ANSS-130  | Digital   | USGS    |
|       |                              |         | EN[ZEN] | 3        |         |            |             |           | Titan        |           |           |         |

| <b>UURSN</b> | <b>Location</b>         | <b>SEED</b>    | <b>SEED</b>    | <b>No. of</b>   | <b>Network</b> | <b>Latitude</b> | <b>Longitude</b> | <b>Elevation</b> | <b>Sensor</b> | <b>Digitizer</b> | <b>Telemetry</b> | <b>Sponsor</b> |
|--------------|-------------------------|----------------|----------------|-----------------|----------------|-----------------|------------------|------------------|---------------|------------------|------------------|----------------|
| <b>Code</b>  |                         | <b>Station</b> | <b>Channel</b> | <b>Channels</b> | <b>Code</b>    |                 |                  | <b>(meters)</b>  |               |                  |                  |                |
| YWB          | West Boundary (YNP), WY | YWB            | EHZ            | 1               | WY             | 44° 36.35'      | 111° 06.05'      | 2310             | L4C           | PSN              | 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     |                  |                  |                |

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

Network Statistics: 931 data channels from 304 stations were being recorded at the end of this report period



## EXPLANATION OF TABLE

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

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

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

**SEED Channel:** The SEED format uses three letters to name seismic channels. See <<[http://www.iris.edu/manuals/SEEDManual\\_V2.4.pdf](http://www.iris.edu/manuals/SEEDManual_V2.4.pdf)>> for information about the SEED channel naming convention. Relevant sections are reproduced below. In the SEED convention, each letter describes one aspect of the instrumentation and its digitization. The first letter specifies the general sampling rate and the response band of the instrument. Band codes used in this table include:

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

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

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

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

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

**Number of Channels:** Total number of waveform channels recorded.

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

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

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

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

**Elevation:** Sensor altitude in meters above sea level.

| <b>Sensor</b> | <b>Description</b>  |
|---------------|---|
| L4, L4C       | Mark Products L4 or L4C short-period seismometer                          |
| S13, 18300    | Geotech S13 or 18300 short-period seismometer                             |
| Ranger        | Kinometrics Ranger short-period seismometer                               |
| 40T           | Guralp CMG-40T broadband seismometer                                      |
| 3T            | Guralp CMG-3T broadband seismometer                                       |
| 3ESP          | Guralp CMG-3ESP broadband seismometer                                     |
| STS-2         | Streckheisen STS-2 broadband seismometer                                  |
| FBA23         | Kinometrics FBA-23 accelerometer  |
| EpiSensor     | Kinometrics EpiSensor accelerometer                                       |
| Applied Mems  | Applied Mems accelerometer  |
| PA-23         | Geotech PA-23 accelerometer   |
| Compact       | Nanometrics Compact broadband seismometer                                 |
| Trillium 120  | Nanometrics Trillium 120 broadband seismometer                            |
| Trillium 240  | Nanometrics Trillium 240 broadband seismometer                            |
| Titan         | Nanometrics Titan accelerometer   |
| Observer      | Refraction Technology (REF TEK) Model 151 Observer broadband seismometer  |
| IESE-S2       | Institute of Earth Science and Engineering S-2 model borehole seismometer |
| Gsig-AC63     | Geosig-AC63 NetQuakes accelerometer                                       |

| <b>Digitizer</b> | <b>Description</b>  |
|------------------|---|
| K2               | Kinometrics Altus Series K2 (19-bit resolution field digitizer)                       |
| Etna             | Kinometrics Altus Series Etna (18-bit resolution field digitizer)                     |
| 72A-07           | Refraction Technology (REF TEK) model 72A-07 (24-bit field digitizer)                 |
| 72A-08           | Refraction Technology (REF TEK) model 72A-08 (24-bit field digitizer)                 |
| ANSS-130         | Refraction Technology (REF TEK) model 130-ANSS/02 (24-bit resolution field digitizer) |
| RT-130           | Refraction Technology (REF TEK) model RT-130 (24-bit resolution                       |

|          |   |
|----------|---|
|          | field digitizer)  |
| Q330     | Quanterra, Inc Q330 digitizer (24-bit resolution field digitizer) |
| SMART-24 | Geotech SMART-24 digitizer (24-bit resolution field digitizer)    |
| PSN      | PSN-ADC-SERIAL version III (16-bit resolution field digitizer)    |
| Basalt   | Kinometrics Basalt (24-bit resolution field digitizer)            |
| Taurus   | Nanometrics Taurus (24-bit resolution field digitizer)            |
| Gsig-GMS | Geosig-GMS NetQuakes (24-bit resolution field digitizer)          |
| Centaur  | Nanometrics Centaur (24-bit resolution field digitizer)           |

| <b>Telemetry</b> | <b>Description</b>   |
|------------------|--|
| 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, 2017**

None