EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

July 1 – September 30, 2012

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

November 29, 2012

Foreword and Data Explanation

This report contains an epicenter map (Figure 1) and listings of earthquakes (Tables 1 and 2) detected and located in the Utah region (lat. 36° 45′ – 42° 30′ N, long. 108° 45′ – 114° 15′ W). The computer program HYPOINVERSE (F. W. Klein, 1978, U.S. Geological Survey Open-File Report 78-694) was used to process the earthquake data. This report also includes maps and a table of operating seismograph stations in the University of Utah′s regional/urban seismic network (Figures 2 and 3, Table 3).

The earthquake listing in Table 2 is estimated to be systematically complete above magnitude 1.5 within the Intermountain Seimic Belt in Utah and above magnitude 2.0 to 2.5 elsewhere in the state. *These data are preliminary—both the locations and magnitudes 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.

- "*" indicates poor depth resolution: no recording stations within 10 km or twice the depth.

- MAG, the computed Richter local magnitude (M_L) for each earthquake. "W" indicates peak amplitude measurements from Wood-Anderson records were used. Otherwise, the estimate is calculated from signal durations and is more correctly identified as coda magnitude (M_C). The notation "--" indicates that a reliable magnitude estimate could not be made.

- NO, the number of P and S readings used in the solution.

- GAP, the largest azimuthal separation in degrees between recording stations used in the solution.

- DMN, the epicentral distance in kilometers to the closest station.

- RMS, the root-mean-square of the travel-time residuals in seconds:

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

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

EARTHQUAKE ACTIVITY IN THE UTAH REGION
July 1 – September 30, 2012

by R. Burlacu, P. M. Roberson, J. M. Hale, and S. Whittaker
with contributions by
K. D. Koper, J. C. Pechmann, and K. L. Pankow

University of Utah Seismograph Stations
115 South 1460 East, Room 107 FASB
Salt Lake City, UT 84112-0102
Tele: (801) 581-6274 FAX: (801) 585-5585
email: *burlacu@seis.utah.edu*
URL: *http://www.seis.utah.edu* (aka *quake.utah.edu*)

During the three-month period July 1 through September 30, 2012, the University of Utah Seismograph Stations (UUSS) located 390 earthquakes within the Utah region (Figure 1). The total includes three earthquake in the magnitude 3 range and 31 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 2012 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

Online Information

A complete copy of this report, including maps and the earthquake catalog, is available on the UUSS Web site at *http://www.quake.utah.edu/EQCENTER/QUARTERLY/quarterly.htm*.

ShakeMaps—computer maps of the ground shaking produced by an earthquake—are automatically produced by UUSS for earthquakes of magnitude 3 and larger within a 75-mile wide zone along the I-15 corridor and magnitude 3.5 and larger elsewhere in the Utah region (see *http://www.seis.utah.edu/shake/shake_trigger_area_09.pdf.)* 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.seis.utah.edu/shake*. Earthquakes during 2012 for which ShakeMaps are available are indicated in Table 1.

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

Earthquakes of Magnitude 3.0 or Larger

M_L 3.5	July 13	13:53 MDT	5 mi NE of Newton, UT (felt, CIIM intensity map, ShakeMap, see Table 1)
M_L 3.6	July 31	04:27 MDT	15 mi WNW of Emery, UT (felt, CIIM intensity map, ShakeMap, see Table 1)
M_L 3.1	August 14	01:17 MDT	9 mi SSW of Kanosh, UT (felt, CIIM intensity map, ShakeMap, see Table 1)

Other Notable Seismicity

During the report period, there were six notable spatial clusters of natural earthquake activity (labeled A to F in Figure 1). 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 ($0.2 \leq M \leq 2.9$) occurred about 8 miles WSW of Levan, UT. Ten of these events, including a magnitude 2.9 shock, occurred between July 11 and July 15.

B. A cluster of 28 earthquakes ($0.5 \leq M \leq 3.1$) occurred about 11 miles SSW of Kanosh, UT. Sixteen of these events, including a magnitude 3.1 shock, occurred on August 14.

C. A cluster of 10 earthquakes ($1.1 \leq M \leq 1.9$) occurred about 5 miles NW of Circleville, UT. Three of these events, including a magnitude 1.9 shock, occurred on July 12.

D. A cluster of 14 earthquakes ($1.5 \leq M \leq 2.8$) occurred about 21 miles NNE of Monticello, UT. Four of these events, including a magnitude 2.8 shock, occurred between September 10 and September 25.

E. A cluster of 15 earthquakes ($0.0 \leq M \leq 2.4$) occurred about 17 mi S of Cedar City, UT. Five of these events, including a magnitude 2.4 shock, occurred between July 28 and July 30.

F. A cluster of 11 earthquakes ($0.6 \leq M \leq 2.3$) occurred about 11 mi SW of Orderville, UT. Three of these events, including a magnitude 2.3 shock, occurred between September 10 and September 14.

In Figure 1, the locally clustered seismic events within a radius of approximately 30 miles of Price, together with a localized cluster about 50 miles to its southwest, are associated with known areas of underground coal mining and are interpreted to be mining-related. These include a total of 104 located shocks ($0.3 \leq M \leq 2.5$) that occurred throughout the report period.

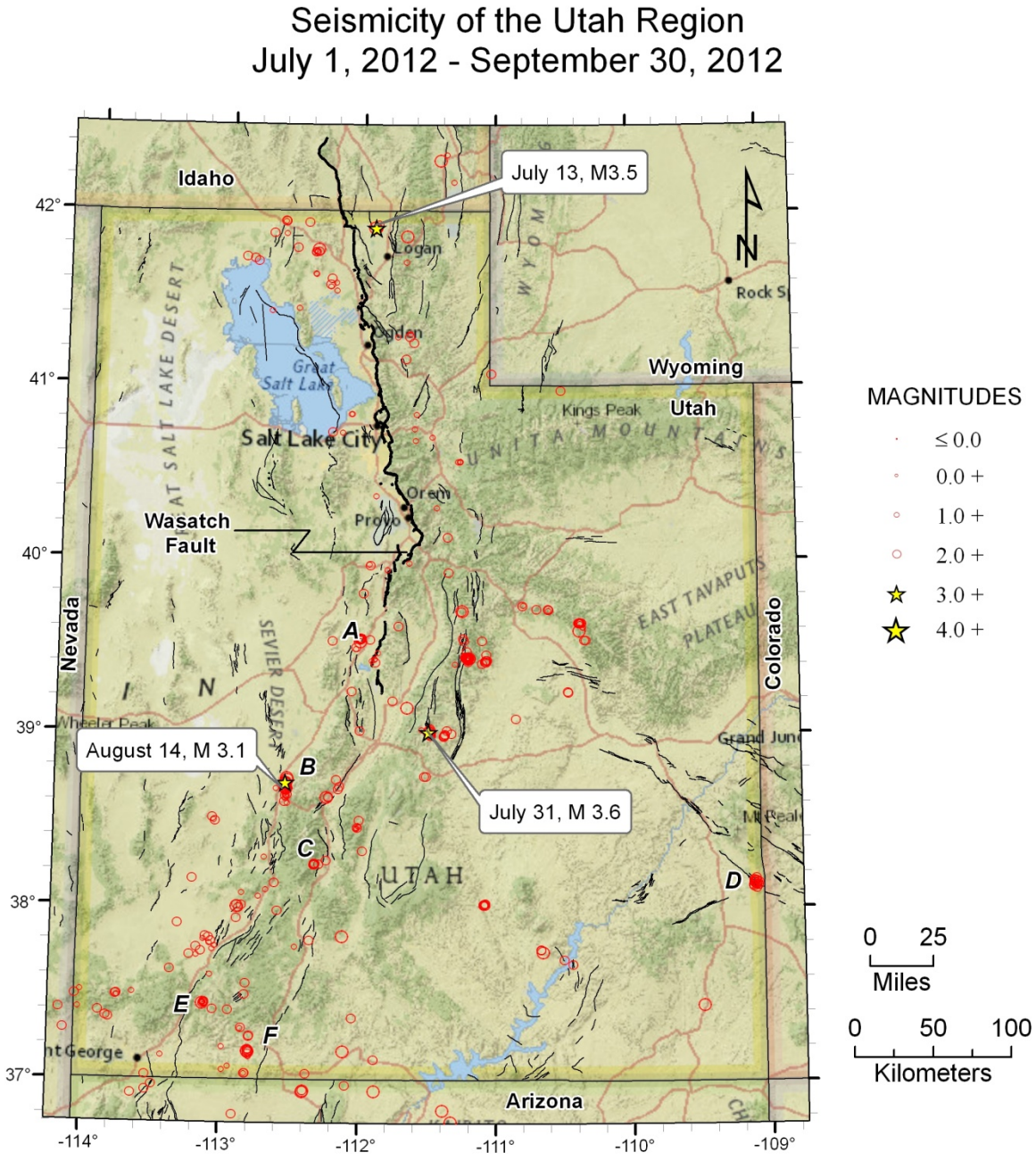


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local date and size.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

Table 1

EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION
January 1, 2012 to September 30, 2012

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 05	12:49 MST 19:49 UTC	Utah. *CIIM*. Felt (III) at Salt Lake City, UT, and (II) at Park City, Bountiful, Roy, and Orem, UT.	40º 47.94′	111º 38.60′	M_L 2.8
January 23 January 24	23:01 MST 06:01 UTC	Utah. *CIIM*. Felt (II) at Saint George, Ivins, Washington, Hurricane, and Cedar City, UT and Littlefield, AZ.	37º 24.15′	113º 52.50′	M_L 3.0
February 04	04:27 MST 11:27 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Salem and Spanish Fork, UT and (II) at Mapleton, Santaquin, Payson, Springville, Provo, Eagle Mountain, and Salt Lake City, UT.	40º 01.09′	111º 31.50′	M_L 3.6
February 11 February 12	20:06 MST 03:06 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Panguitch, UT and (II) at Kingman (?), AZ.	37º 51.31′	112º 24.26′	M_L 3.2
February 11 February 12	21:18 MST 04:18 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Panguitch and Milford (?), UT and (II) at Parowan, Escalante, Cedar City, and Payson (?), UT.	37º 51.35′	112º 24.29′	M_L 3.5
February 16	01:20 MST 08:20 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Fairview, UT and (II) at Mount Pleasant, Ephraim, Nephi, Salt Lake City, and Fielding (?), UT.	39º 37.47′	111º 33.25′	M_L 3.0
February 29	15:36 MST 22:36 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Veyo, Central, Washington, and Hurricane, UT and (II) at Saint George, Ivins, La Verkin, Parowan, UT, and Las Vegas (?), NV.	37º 21.55′	113º 50.50′	M_L 3.0

Table 1

EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION
January 1, 2012 to September 30, 2012

March 25	17:07 MDT 23:07 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Delta, UT and (II) at Lehi, Pleasant Grove, UT, and Kemmerer (?), WY.	39º 37.08′	112º 11.52′	M_L 3.0
March 29	11:22 MDT 17:22 UTC	Utah. *CIIM*. Felt (II) at Monroe, UT.	38º 58.94′	111º 23.13′	M_L 3.4
April 11 April 12	18:25 MDT 00:25 UTC	Utah. *CIIM*. Felt (III) at Draper (?), UT.	37º 46.90′	112º 21.11′	M_L 2.7
April 11 April 12	21:29 MDT 03:29 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Antimony, Bryce Canyon, Escalante, Panguitch, Torrey, Alton, Kanab, Boulder, Hurricane, Delta, Provo (?), Saratoga Springs (?), Riverton (?), Draper (?), Layton (?) , UT, Page, Fredonia, , Supai, AZ and (II) at Kingston, Brian Head, Teasdale, Cedar City, Ferron, Washington, Hite, Lehi (?), Salt Lake City (?), UT, Marble Canyon, Kaibeto, Sedona (?), Messa (?), AZ.	37º 49.54′	112º 06.91′	M_L 4.1
June 21 June 22	23:37 MDT 05:37 UTC	Utah. *CIIM*. Felt (III) at Boulder, UT.	38º 00.81′	111º 05.78′	M_L 3.0
July 13	13:53 MDT 19:53 UTC	Utah. *CIIM*. *ShakeMap*. Felt (V) at Trenton, UT, (IV) at Clarkston, Cornish, UT, (III) at Richmond, Hyde Park, Logan, Centerville (?), UT, Franklin, Preston, ID, and (II) at Lewiston, Mendon, Providence, Woods Cross (?), Salt Lake City (?), UT, Weston, ID, Jackson (?), WY.	41º 54.07′	111º 54.97′	M_L 3.5
July 18	13:44 MDT 19:44 UTC	Utah. *CIIM*. Felt (III) at Lewiston, UT and (II) at Trenton, UT.	41º 54.10′	111º 55.56′	M_L 2.3

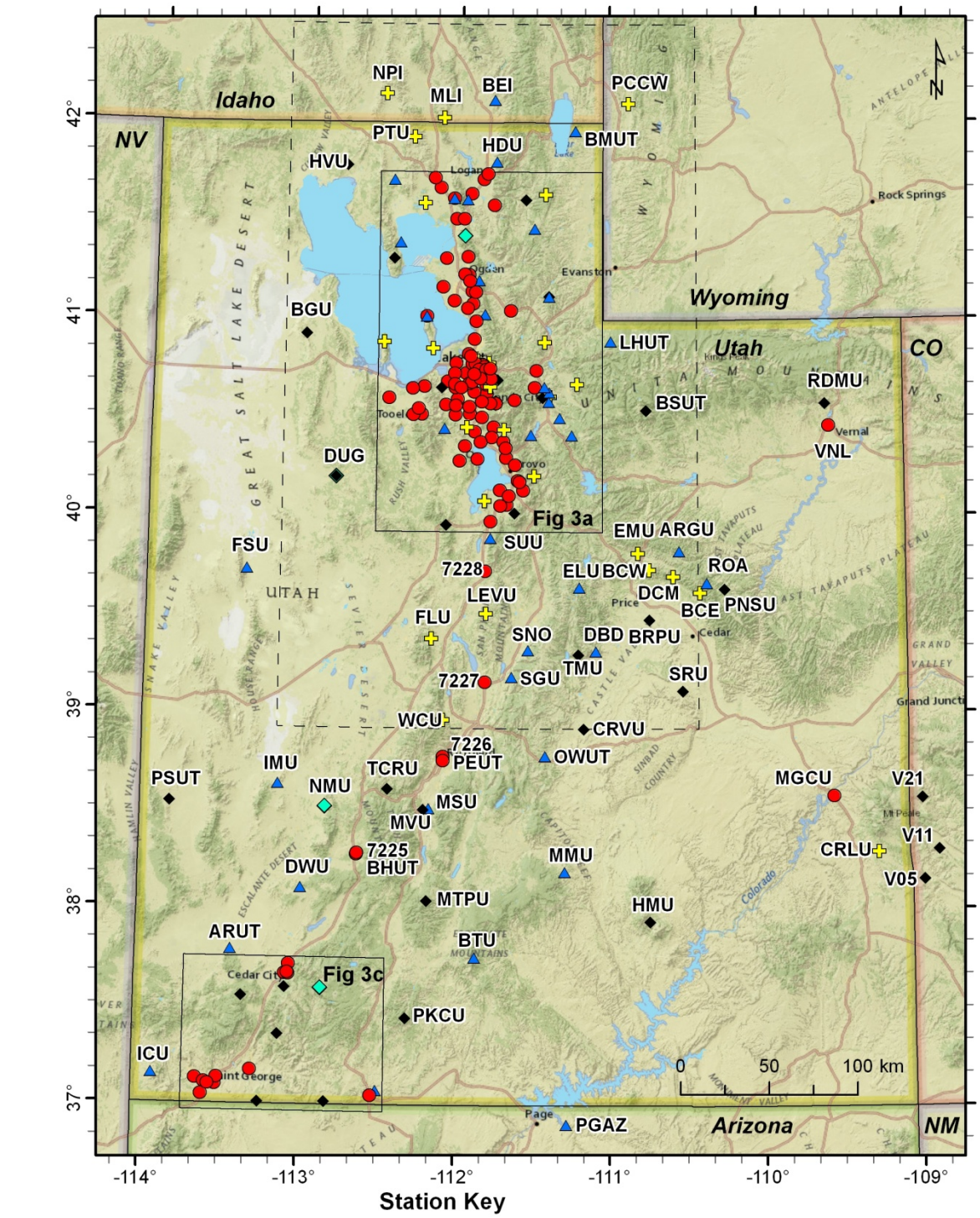
Table 1

EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION
January 1, 2012 to September 30, 2012

July 31	04:27 MDT 10:27 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Salina, UT and (II) at Salt Lake City (?), Farmington, UT.	39º 00.41′	111º 29.82′	M_L 3.6
August 14	01:17 MDT 07:17 UTC	Utah. *CIIM*. *ShakeMap*. Felt (II) at Salt Lake City (?), UT.	38º 42.71′	112º 32.99′	M_L 3.1
August 21	15:21 MDT 21:21 UTC	Colorado. *CIIM*. Felt (II) at Kaysville (?), UT.	39º 30.60′	107º 02.40′	M 3.3

† Times are listed both as Local Time—Mountain Standard Time (MST) or Mountain Daylight Time (MDT)—and as Universal Coordinated Time (UTC).
‡ *CIIM* indicates the availability of a Community Internet Intensity Map (http://earthquake.usgs.gov/earthquakes/dyfi/archives.php), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking (*http://www.seis.utah.edu/shake/archive*), produced by the University of Utah Seismograph Stations (UUSS). Roman numerals correspond to the Modified Mercalli intensity scale. Unless otherwise indicated, felt information is from the USGS (1) CIIM reports and/or (2) PDE Monthly (or) Weekly Listing Files (http://earthquake.usgs.gov/research/data/pde.php).
§ Richter local magnitude (M_L) or coda magnitude (M_C) determined by UUSS. If labeled "NEIC," data are from the National Earthquake Information Center of the USGS.

Utah Regional/Urban Seismic Network
September 30, 2012



Station Key

- ▲ Single-component, Analog-telemetry, Short-period
- ◇ Multi-component, Analog-telemetry, Short-period
- ◆ Multi-component, Digital-telemetry, Broadband
- ● Multi-component, Digital-telemetry, Strong Motion

Bounds of map correspond to standard "Utah Region"

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

Figure 2

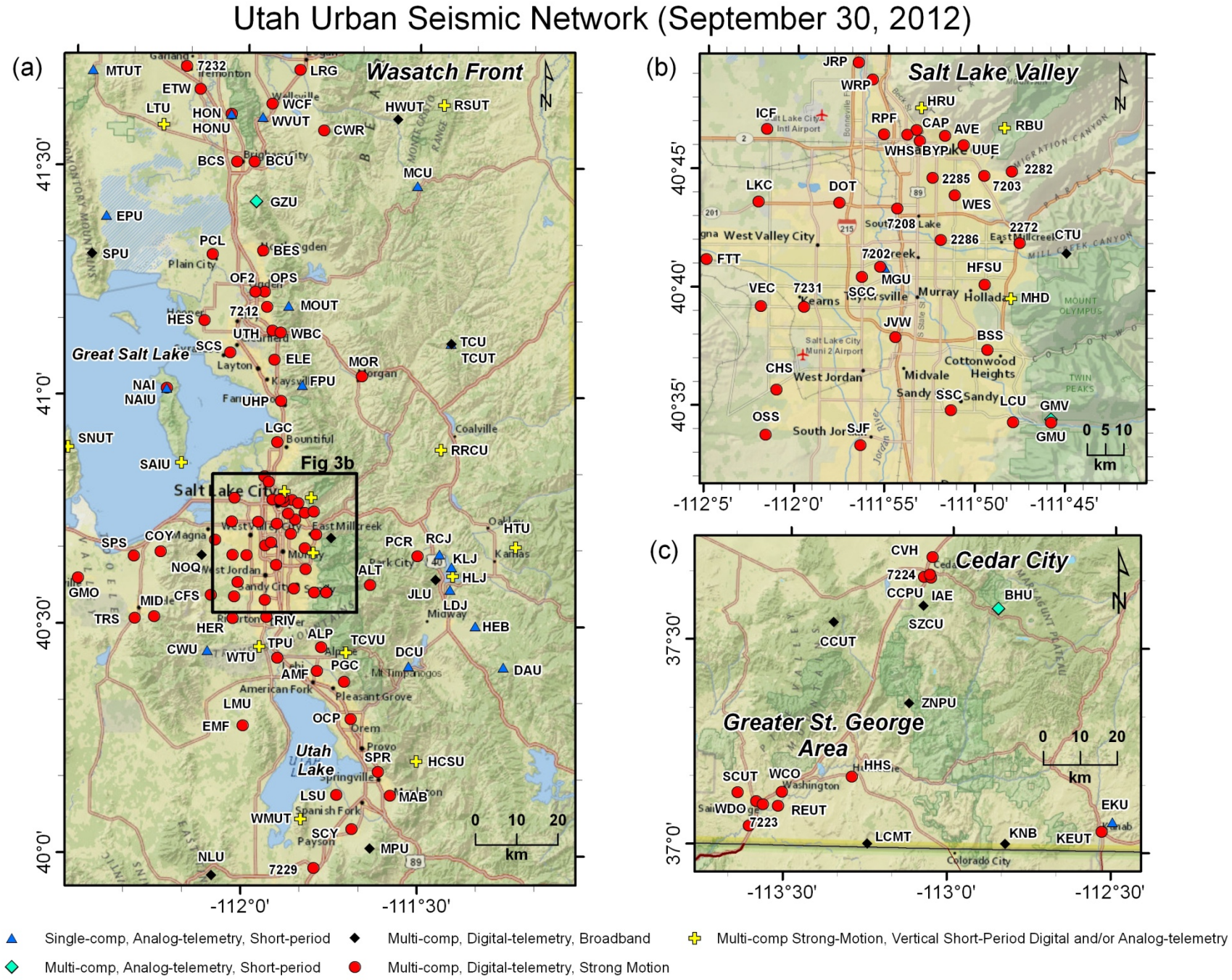

Utah Urban Seismic Network (September 30, 2012)
(a)
Wasatch Front
Great Salt Lake
Salt Lake City
Fig 3b
Utah Lake
MTUT
7232
LRG
ETW
LTU
HON
HONU
WCF
WVUT
CWR
HWUT
RSUT
BCS
BCU
MCU
GZU
EPU
SPU
PCL
BES
Plain City
OF2
OPS
MOUT
7212
HES
UTH
WBC
SCS
ELE
Layton
MOR
TCU
TCUT
NAI
NAIU
FPU
UHP
SNUT
LGC
Bountiful
Coalville
RRCU
SAIU
COY
SPS
NOQ
GMO
MID
CFS
TRS
HER
RIV
PCR
RCJ
KLJ
HLJ
ALT
JLU
LDJ
HTU
Kamas
HEB
DAU
CWU
WTU
TPU
ALP
TCVU
DCU
PGC
AMF
American Fork
Pleasant Grove
LMU
EMF
OCP
Orem
Provo
SPR
HCSU
LSU
MAB
WMUT
SCY
Payson
MPU
NLU
7229
41°30'
41°0'
40°30'
40°0'
-112°0'
-111°30'
0 10 20
km
(b)
Salt Lake Valley
JRP
WRP
HRU
ICF
RPF
CAP
AVE
RBU
WHS
BYP
UUE
2285
2282
7203
LKC
DOT
WES
7208
2272
2286
CTU
West Valley City
7202
FTT
HFSU
MGU
VEC
7231
Kearns
SCC
Murray
MHD
JVW
BSS
Cottonwood Heights
CHS
West Jordan
Midvale
Sandy
SSC
LCU
GMV
OSS
SJF
GMU
0 5 10
km
40°45'
40°40'
40°35'
-112°5'
-112°0'
-111°55'
-111°50'
-111°45'
(c)
Cedar City
CVH
7224
CCPU
IAE
BHU
SZCU
CCUT
ZNPU
Greater St. George Area
SCUT
WCO
HHS
Washington
WDO
REUT
7223
LCMT
KNB
KEUT
EKU
Kanab
Colorado City
0 10 20
km
37°30'
37°0'
-113°30'
-113°0'
-112°30'
Single-comp, Analog-telemetry, Short-period
Multi-comp, Analog-telemetry, Short-period
Multi-comp, Digital-telemetry, Broadband
Multi-comp, Digital-telemetry, Strong Motion
Multi-comp Strong-Motion, Vertical Short-Period Digital and/or Analog-telemetry

Figure 3

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120701	03:23:17.07	39° 38.03′	110° 22.79′	1.7	1.6W	15	99	3	0.35
120701	09:22:16.46	37° 58.33′	112° 35.84′	9.8*	1.4	9	93	37	0.23
120701	14:21:56.57	38° 14.51′	112° 17.91′	7.3*	1.6	10	142	32	0.21
120701	18:49:23.80	39° 37.83′	110° 23.30′	0.1	1.4	9	100	3	0.19
120701	21:20:25.63	38° 43.66′	112° 10.74′	14.1	1.2	7	120	24	0.22
120702	00:15:31.61	37° 08.18′	113° 25.14′	14.1	0.5	11	140	21	0.21
120702	00:27:48.35	39° 00.69′	112° 00.46′	9.8	1.5	10	122	9	0.18
120702	07:49:07.95	37° 04.55′	112° 56.11′	11.1	0.7	9	132	12	0.28
120702	13:44:20.16	41° 14.60′	111° 37.37′	7.2*	1.0	12	106	23	0.31
120702	16:27:52.78	36° 58.00′	113° 29.09′	0.6*	1.7	7	213	22	0.43
120702	21:21:56.23	41° 42.40′	112° 48.90′	4.3	1.2	14	218	9	0.16
120702	21:50:33.43	38° 16.89′	112° 41.74′	7.0*	0.0	6	112	29	0.17
120703	06:57:44.20	37° 09.60′	112° 47.61′	0.1*	1.8W	21	59	16	0.29
120703	07:07:07.86	39° 31.97′	110° 20.19′	2.3*	1.1	7	209	11	0.18
120703	07:12:15.53	39° 37.89′	110° 22.04′	1.6	1.4	7	190	3	0.37
120703	07:18:30.86	37° 07.83′	112° 47.21′	13.9	0.6	6	154	13	0.08
120703	07:19:34.88	37° 10.39′	112° 47.60′	3.0*	1.1	11	120	18	0.16
120703	11:28:29.92	37° 09.62′	112° 47.71′	7.5*	1.3	13	58	16	0.22
120703	17:47:41.38	39° 38.00′	110° 23.45′	0.1	1.6W	13	154	3	0.17
120703	20:04:13.65	37° 09.66′	112° 47.12′	12.2	1.0	8	119	16	0.11
120704	03:26:25.64	39° 25.85′	111° 12.98′	6.9*	1.5	9	117	15	0.15
120704	13:27:34.56	38° 14.59′	112° 19.65′	2.0*	1.7	20	42	33	0.17
120704	13:36:37.64	38° 14.57′	112° 19.84′	4.8*	1.1	14	50	33	0.18
120704	19:24:02.57	38° 14.67′	112° 19.75′	1.6*	1.1	19	42	33	0.20
120704	20:49:12.77	37° 08.80′	112° 47.53′	11.6	1.0	8	114	15	0.18
120705	03:07:51.21	39° 25.40′	111° 54.10′	7.2	0.8	14	61	12	0.21
120705	04:22:30.20	41° 32.57′	112° 12.83′	1.6	0.7	11	94	6	0.17
120705	07:04:27.03	37° 03.34′	112° 58.75′	19.3	0.7	8	119	15	0.22
120705	18:58:37.60	39° 26.02′	111° 12.46′	2.5*	1.1	7	115	15	0.18
120705	20:04:34.08	38° 09.60′	109° 05.97′	2.6*	1.8	5	174	12	0.22
120706	03:06:48.37	39° 26.19′	111° 12.27′	3.9*	1.0	6	114	16	0.12
120706	04:40:04.99	39° 26.24′	111° 12.52′	2.3*	0.8	8	116	16	0.09
120706	05:54:20.67	39° 25.96′	111° 13.36′	5.2*	1.2	15	87	15	0.19
120706	08:09:54.48	39° 25.76′	111° 13.60′	4.2*	1.2	15	119	15	0.14
120706	13:33:49.27	38° 37.59′	112° 14.77′	2.0*	2.1W	13	100	14	0.30
120706	13:44:05.71	38° 37.54′	112° 14.11′	5.6*	1.5W	10	100	14	0.20
120706	13:51:12.68	38° 37.72′	112° 14.07′	2.0*	1.8W	9	115	14	0.27
120706	17:01:39.04	38° 08.12′	109° 06.89′	2.9*	1.7W	7	188	13	0.19
120707	02:12:34.58	39° 37.94′	110° 22.76′	1.5	1.6	11	171	3	0.40
120707	03:53:49.05	39° 41.94′	111° 15.47′	2.2	1.7	6	113	8	0.31
120707	05:49:21.19	39° 58.67′	111° 38.91′	1.6	0.9	7	179	4	0.22
120707	06:28:40.33	39° 37.97′	110° 22.37′	1.6	1.8	9	181	3	0.36
120707	12:17:09.97	39° 26.06′	111° 12.53′	3.3*	1.4	8	115	15	0.08
120707	20:28:55.31	39° 37.83′	110° 22.83′	1.7	1.8	5	171	3	0.47
120708	15:49:48.84	39° 42.52′	110° 36.78′	1.7	1.5	11	81	3	0.33

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120708	19:48:58.85	39° 37.74′	110° 22.69′	1.7	0.4	6	175	3	0.42
120709	00:55:49.91	39° 10.94′	111° 45.96′	16.4	1.2	7	183	10	0.14
120709	20:57:59.16	36° 54.91′	113° 37.88′	1.3*	1.5	8	235	36	0.16
120709	23:01:48.61	39° 25.91′	111° 13.04′	5.4*	1.3	12	117	15	0.12
120710	00:29:49.66	39° 26.13′	111° 12.60′	2.9*	1.1	9	115	15	0.17
120710	01:18:46.54	39° 26.04′	111° 12.79′	5.3*	0.9	11	116	15	0.14
120710	06:11:06.94	39° 25.95′	111° 13.18′	4.8*	1.1	13	117	15	0.14
120710	07:46:05.88	42° 19.40′	111° 22.58′	1.4*	0.9	9	143	41	0.28
120710	11:28:44.93	39° 25.96′	111° 12.91′	5.4*	1.6	15	116	15	0.11
120711	05:03:24.73	39° 25.82′	111° 12.85′	1.8*	1.6	17	94	15	0.16
120711	10:00:39.38	39° 26.01′	111° 13.16′	3.6*	1.1	12	118	15	0.13
120711	16:31:38.95	38° 07.28′	109° 06.09′	3.3*	1.8	6	196	12	0.24
120711	16:36:28.19	39° 31.31′	112° 00.52′	0.2*	2.9W	26	60	17	0.20
120711	17:00:19.63	39° 32.38′	112° 01.04′	2.0*	1.6W	16	74	18	0.23
120711	17:03:01.47	39° 32.52′	112° 00.65′	3.0*	1.1	8	136	17	0.16
120711	17:08:52.99	39° 32.00′	112° 00.59′	2.1*	1.1	10	134	17	0.17
120712	00:59:33.89	38° 14.24′	112° 20.03′	3.0*	1.9W	23	42	34	0.23
120712	01:02:01.95	38° 14.32′	112° 20.13′	4.8*	1.5	18	42	33	0.22
120712	02:19:01.41	39° 31.74′	112° 00.28′	3.5*	0.2	5	169	17	0.22
120712	02:56:50.70	38° 14.45′	112° 19.84′	5.2*	1.4	16	42	33	0.24
120712	03:36:13.66	39° 32.27′	111° 59.93′	3.0*	1.1	9	96	16	0.26
120712	05:24:11.00	39° 25.72′	111° 12.69′	8.7	1.1	11	115	15	0.20
120712	05:59:01.30	39° 26.21′	111° 12.16′	2.5*	1.1	8	122	16	0.12
120712	06:48:55.43	39° 32.49′	112° 00.23′	2.0*	1.0	12	78	17	0.20
120712	14:20:58.35	39° 42.64′	110° 41.96′	0.2	1.6W	7	134	4	0.39
120712	18:10:47.81	39° 25.84′	111° 12.69′	2.3*	1.6	12	116	15	0.11
120712	19:25:10.18	39° 25.41′	111° 12.84′	5.5*	1.2	9	150	14	0.11
120713	00:15:39.86	39° 25.89′	111° 13.05′	5.4*	1.4	12	117	15	0.15
120713	00:58:39.77	38° 58.82′	111° 23.14′	8.0*	1.3	9	96	23	0.14
120713	02:54:44.98	39° 25.87′	111° 12.77′	5.7*	1.3	13	116	15	0.12
120713	03:03:46.51	39° 25.90′	111° 13.18′	5.3*	1.5	13	117	15	0.11
120713	18:33:02.34	39° 25.85′	111° 13.42′	3.0*	1.2	8	118	15	0.10
120713	19:41:44.82	39° 25.93′	111° 13.01′	5.4*	1.6	13	117	15	0.13
120713	19:53:16.96	41° 54.07′	111° 54.97′	2.5*	3.5W	27	76	17	0.16
120714	06:21:54.37	37° 48.36′	113° 07.79′	3.3*	0.9	15	72	24	0.23
120714	08:15:42.58	37° 23.25′	113° 52.84′	6.1*	1.1	10	173	27	0.21
120714	12:20:22.64	41° 54.17′	111° 54.36′	2.8*	0.9	15	137	16	0.14
120714	15:24:27.24	39° 32.01′	111° 56.21′	7.8	1.0	12	82	11	0.20
120714	20:41:30.39	39° 25.95′	111° 13.27′	2.5*	1.2	9	131	15	0.11
120714	20:46:53.19	39° 32.46′	111° 59.89′	2.2*	1.5	10	97	16	0.18
120715	03:20:44.88	39° 32.71′	112° 00.47′	2.2*	1.7	10	136	17	0.17
120715	04:51:01.63	37° 29.12′	113° 44.89′	3.9*	1.1	9	196	35	0.23
120715	05:40:26.58	37° 28.87′	113° 45.28′	4.3*	1.4	9	154	36	0.18
120715	09:20:53.21	39° 26.02′	111° 12.66′	5.5*	1.1	13	116	15	0.13
120715	09:45:45.81	39° 26.04′	111° 12.90′	2.5*	1.1	11	116	15	0.09

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120715	10:42:07.17	38° 59.52′	111° 22.70′	12.8	1.0	8	95	24	0.06
120715	22:58:00.86	41° 53.95′	111° 54.47′	4.2*	1.1	15	75	16	0.24
120716	02:48:05.75	37° 36.12′	113° 04.62′	4.8	0.5	5	196	1	0.14
120716	12:39:45.17	37° 49.35′	113° 07.04′	7.4*	1.0	16	59	25	0.30
120716	16:07:41.44	37° 44.30′	110° 39.55′	4.0*	2.6W	25	87	23	0.22
120716	22:14:59.47	37° 29.85′	113° 38.09′	14.0	0.4	6	138	25	0.21
120717	00:08:05.44	39° 25.90′	111° 13.59′	6.8*	1.2	12	120	15	0.17
120717	00:53:43.51	37° 45.14′	110° 40.24′	5.5*	1.5W	9	171	22	0.12
120717	11:56:56.01	40° 58.09′	110° 30.72′	17.1*	1.5	12	132	42	0.12
120717	19:32:43.88	39° 26.09′	111° 12.49′	3.0*	1.0	8	115	15	0.16
120717	21:47:49.94	41° 53.86′	111° 54.58′	3.4*	0.9	14	74	16	0.14
120717	23:56:40.14	39° 44.16′	110° 47.87′	1.6	0.9	6	180	5	0.41
120718	04:33:24.69	39° 25.84′	111° 12.95′	5.2*	1.5	14	116	15	0.15
120718	17:08:26.63	39° 25.97′	111° 12.65′	2.9*	1.1	10	115	15	0.15
120718	19:44:40.03	41° 54.10′	111° 55.56′	1.1*	2.3W	26	61	22	0.20
120718	19:47:34.25	41° 53.98′	111° 54.78′	5.4*	1.7W	16	75	16	0.13
120718	21:49:28.02	41° 54.09′	111° 54.69′	2.6*	1.7W	20	76	16	0.13
120718	21:53:11.25	39° 26.04′	111° 12.75′	3.2*	1.2	10	116	15	0.12
120719	02:20:59.02	39° 26.62′	111° 13.66′	2.1*	0.9	7	122	17	0.18
120719	08:31:06.30	38° 14.61′	112° 19.53′	4.3*	1.1	13	61	33	0.20
120719	13:27:26.38	38° 19.08′	111° 58.97′	7.4*	1.5	18	68	28	0.25
120719	21:41:23.40	39° 32.58′	111° 14.81′	8.9	1.2	16	51	11	0.14
120719	22:33:31.25	38° 00.76′	111° 05.38′	12.5*	1.5	11	125	27	0.20
120719	23:41:53.56	38° 00.39′	111° 05.57′	8.7*	1.5	14	126	27	0.24
120719	23:47:57.73	37° 29.37′	112° 49.56′	2.5*	1.4	14	53	12	0.19
120720	00:06:19.15	38° 01.13′	111° 04.68′	15.1	1.2	7	132	27	0.09
120720	06:25:52.69	38° 00.82′	111° 05.50′	3.3*	1.7	14	125	27	0.22
120720	06:28:31.59	38° 00.49′	111° 04.77′	14.2	1.5	12	125	28	0.15
120721	07:57:48.40	39° 58.08′	111° 56.71′	1.0*	0.8	13	95	11	0.12
120721	17:32:27.02	41° 36.64′	112° 15.17′	0.1	1.0	5	156	2	0.19
120721	18:13:26.20	38° 00.81′	111° 05.07′	1.4*	1.5	9	124	27	0.17
120721	22:35:50.19	39° 26.92′	111° 04.38′	6.0*	1.5W	12	139	15	0.12
120722	17:01:53.89	38° 09.22′	113° 13.28′	5.2*	1.2	12	102	45	0.33
120722	18:40:28.14	41° 47.11′	112° 31.01′	3.4*	1.0	16	92	14	0.20
120723	11:56:03.84	39° 04.81′	110° 51.22′	10.2*	1.6	18	70	29	0.20
120723	23:00:39.70	39° 36.80′	111° 43.60′	2.4*	1.0	13	86	14	0.20
120724	02:45:01.43	37° 06.98′	111° 53.33′	4.3*	1.8	8	216	52	0.15
120724	11:20:42.44	42° 10.07′	111° 19.18′	9.2*	0.8	7	118	24	0.24
120724	11:37:08.05	38° 14.71′	112° 19.93′	1.0*	1.3	18	55	33	0.20
120724	15:43:47.00	37° 26.54′	113° 06.84′	1.6	1.1	12	106	10	0.17
120724	15:46:23.36	37° 26.59′	113° 06.82′	0.2	1.3	12	106	10	0.15
120724	16:28:12.64	41° 34.61′	112° 15.75′	0.1	1.0	10	173	2	0.19
120724	20:34:10.29	37° 26.66′	113° 06.67′	10.2	- -	6	145	10	0.05
120724	20:35:34.00	37° 26.71′	113° 06.93′	10.9	1.0	9	105	10	0.09
120724	21:08:21.79	37° 26.52′	113° 07.35′	8.9	0.8	8	107	10	0.15

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120725	18:39:30.90	41° 54.01′	111° 54.29′	3.4*	1.8W	21	75	16	0.16
120725	20:06:17.82	38° 09.06′	109° 07.06′	2.9*	1.6	5	180	13	0.15
120725	23:56:35.69	39° 57.64′	111° 56.35′	3.5*	1.8W	17	94	12	0.19
120726	01:12:14.42	38° 00.97′	111° 04.75′	12.7*	1.3	7	124	27	0.03
120726	16:39:25.70	38° 08.25′	109° 06.48′	2.7*	1.7	7	187	12	0.11
120728	09:13:23.28	37° 26.55′	113° 07.03′	13.4	0.5	7	115	10	0.15
120728	09:15:06.38	37° 26.29′	113° 07.57′	10.5	0.8	11	109	9	0.15
120728	09:42:08.25	37° 26.20′	113° 07.23′	4.7	1.6	14	108	9	0.23
120728	11:51:23.21	37° 26.53′	113° 07.43′	12.1	0.1	7	107	10	0.07
120728	14:26:47.84	40° 44.84′	111° 36.69′	10.0	0.5	18	74	13	0.20
120728	18:30:31.23	37° 33.21′	112° 49.13′	13.9	1.3	13	66	6	0.15
120729	06:03:35.02	37° 21.47′	112° 02.99′	11.3*	1.3	8	170	47	0.08
120730	02:46:44.50	39° 42.05′	111° 15.30′	0.3	2.5W	28	71	8	0.28
120730	20:41:58.85	40° 49.85′	111° 35.84′	13.4	0.4	15	59	15	0.15
120730	23:11:31.88	37° 26.18′	113° 07.70′	5.1	2.4W	17	79	9	0.27
120731	01:17:02.63	38° 08.02′	112° 37.29′	7.4*	1.3	9	80	47	0.17
120731	10:27:28.39	39° 00.41′	111° 29.82′	0.9*	3.6W	26	40	23	0.20
120731	10:34:56.48	38° 59.12′	111° 29.31′	6.1*	1.8	7	99	24	0.08
120731	10:54:57.98	39° 00.09′	111° 29.92′	13.8	1.5	7	101	24	0.08
120731	11:07:11.61	37° 44.19′	113° 08.81′	2.2*	1.2	9	199	17	0.26
120731	12:29:39.24	39° 00.69′	111° 29.44′	14.1	1.6	8	98	23	0.15
120731	13:02:06.43	39° 00.09′	111° 30.37′	10.8*	1.5	8	102	24	0.10
120731	16:52:05.53	37° 37.83′	113° 22.15′	2.3	1.1	5	161	9	0.11
120731	17:17:57.01	37° 23.95′	112° 56.65′	0.8*	1.6	9	112	17	0.19
120801	01:42:40.26	41° 16.53′	111° 44.75′	12.9	0.7	21	78	20	0.21
120801	03:38:47.67	37° 14.73′	112° 47.32′	7.1*	1.4	11	107	26	0.20
120801	05:46:33.29	39° 26.39′	111° 13.66′	2.5*	1.3	10	121	16	0.18
120801	09:12:51.88	38° 58.79′	111° 23.31′	12.1	1.3	7	96	23	0.10
120801	09:15:13.78	37° 42.84′	113° 10.60′	2.2*	0.9	8	181	15	0.29
120801	19:20:12.20	39° 00.03′	111° 29.91′	13.0	1.7	7	101	24	0.06
120802	03:02:08.33	37° 26.46′	113° 07.43′	12.6	0.3	6	127	9	0.04
120802	08:26:03.16	37° 26.65′	113° 07.44′	10.9	0.3	7	107	10	0.09
120802	09:25:41.58	39° 28.11′	111° 13.19′	5.1*	1.3	11	125	19	0.13
120802	09:52:28.78	39° 42.38′	110° 36.67′	0.0	0.7	6	162	3	0.13
120803	07:40:41.25	41° 51.26′	111° 40.74′	1.5*	2.2W	29	74	29	0.28
120803	21:38:44.55	38° 07.83′	109° 07.15′	2.9*	1.7	6	190	13	0.20
120804	04:04:20.94	37° 43.02′	113° 13.82′	1.3*	1.5	12	81	19	0.27
120804	04:09:17.65	37° 28.76′	114° 03.01′	4.0*	1.3	8	205	38	0.13
120804	15:56:26.60	39° 31.76′	111° 14.40′	6.1*	1.0	9	107	13	0.29
120805	01:17:10.57	41° 08.92′	111° 41.09′	7.6*	1.0	24	76	18	0.16
120805	10:30:19.81	39° 24.79′	111° 55.23′	8.5	0.9	11	123	14	0.18
120805	23:30:35.60	38° 59.49′	111° 29.72′	13.2	1.3	7	101	24	0.20
120806	01:06:33.61	40° 21.73′	111° 53.89′	8.1	0.9	15	100	11	0.17
120806	06:12:17.98	37° 25.63′	113° 06.64′	10.2	0.6	10	108	8	0.17
120806	12:26:09.20	39° 56.26′	111° 48.51′	4.3	0.7	11	101	6	0.19

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120806	12:58:24.08	37° 30.32′	114° 00.70′	2.9*	0.5	6	198	40	0.17
120806	17:51:07.95	41° 52.22′	112° 41.78′	6.6	1.9W	21	173	12	0.19
120806	19:41:39.49	39° 26.12′	111° 12.60′	3.1*	1.5	8	115	15	0.13
120807	01:09:15.56	39° 25.05′	111° 12.50′	2.2*	1.1	7	163	13	0.05
120807	02:18:12.73	39° 25.81′	111° 13.12′	3.0*	1.3	9	117	15	0.18
120807	03:57:48.43	39° 25.86′	111° 12.95′	6.4*	1.6	11	116	15	0.17
120807	05:59:06.31	41° 38.26′	112° 22.42′	8.6	0.7	15	105	8	0.19
120807	09:44:24.50	38° 40.88′	112° 31.10′	6.3	0.8	8	119	10	0.15
120807	14:49:27.67	39° 25.49′	111° 53.95′	12.8	0.9	8	140	12	0.07
120807	14:54:28.91	39° 24.20′	111° 53.82′	0.4*	1.5	14	69	13	0.22
120807	15:54:21.29	39° 26.21′	111° 12.29′	3.0*	1.2	7	114	16	0.13
120807	22:07:45.34	39° 25.88′	111° 12.89′	5.6*	1.7	16	83	15	0.13
120808	06:32:55.66	41° 38.14′	112° 22.29′	9.7	0.7	13	106	8	0.18
120808	08:39:05.63	39° 25.24′	111° 12.48′	6.8*	1.7	12	149	14	0.10
120808	12:03:12.36	36° 56.27′	112° 23.73′	19.7	1.6	13	118	18	0.29
120808	12:36:49.87	37° 25.91′	109° 29.47′	1.2*	2.0W	11	112	91	0.10
120809	02:34:16.41	39° 25.73′	111° 12.78′	3.9*	1.2	8	115	15	0.10
120809	11:56:03.64	39° 27.57′	111° 52.61′	12.8	0.7	8	119	8	0.05
120809	16:46:04.85	38° 06.59′	109° 07.04′	3.1*	1.7	6	201	14	0.18
120809	17:00:08.68	36° 45.53′	111° 19.84′	7.0*	2.0W	7	160	93	0.26
120810	02:54:21.03	39° 25.08′	111° 04.54′	4.8*	1.6	13	81	12	0.09
120810	05:08:14.43	37° 02.08′	112° 22.71′	13.2	1.4	10	118	11	0.09
120810	06:02:19.42	39° 26.18′	111° 12.34′	3.0*	1.0	9	114	16	0.21
120810	17:13:32.84	38° 59.71′	111° 19.74′	12.6*	1.5	7	99	25	0.08
120810	21:10:32.52	39° 26.02′	111° 12.66′	6.4*	1.6	12	115	15	0.12
120811	07:59:49.73	39° 26.20′	111° 12.90′	5.4*	1.3	11	117	16	0.11
120811	08:39:55.69	37° 48.16′	112° 21.72′	7.1*	1.8	6	173	40	0.20
120811	13:19:51.76	39° 55.37′	111° 21.34′	2.9*	1.9W	32	49	26	0.17
120811	17:24:11.41	39° 14.19′	112° 04.07′	9.8	1.5	14	108	18	0.16
120811	20:16:51.01	41° 16.68′	111° 39.40′	7.1*	1.2	20	97	24	0.17
120812	15:28:43.01	39° 00.90′	111° 21.96′	13.4	1.3	7	94	27	0.11
120813	20:12:06.48	38° 07.16′	109° 07.27′	4.2*	1.8	6	235	14	0.08
120814	00:16:47.29	39° 24.63′	111° 12.54′	2.2*	1.0	11	147	13	0.27
120814	01:51:15.17	39° 25.43′	111° 11.36′	2.4*	1.0	9	147	14	0.12
120814	07:17:35.85	38° 42.71′	112° 32.99′	0.4*	3.1W	21	66	14	0.17
120814	07:35:23.43	38° 38.09′	112° 32.55′	9.6	0.6	9	148	9	0.17
120814	07:35:56.07	38° 35.58′	112° 31.96′	8.6	0.8	8	143	8	0.23
120814	08:23:35.91	38° 42.27′	112° 32.97′	2.1*	2.2W	16	85	14	0.21
120814	08:25:12.40	38° 37.92′	112° 32.35′	9.1	0.5	8	147	8	0.16
120814	08:30:09.19	38° 41.08′	112° 32.91′	7.8	1.3	13	101	12	0.15
120814	11:52:08.07	38° 42.17′	112° 32.88′	0.1*	2.8W	15	124	14	0.20
120814	11:55:50.89	38° 40.11′	112° 33.06′	7.8	1.6	13	120	11	0.20
120814	12:04:55.54	38° 40.49′	112° 32.58′	8.1	2.6W	14	106	11	0.22
120814	12:06:50.89	38° 38.54′	112° 32.28′	10.2	1.1	9	143	9	0.16
120814	12:07:38.48	38° 39.30′	112° 32.50′	8.4	0.8	6	210	10	0.12

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120814	12:09:59.08	38° 37.15′	112° 32.80′	8.6	0.8	9	139	9	0.23
120814	12:13:12.59	38° 42.71′	112° 32.98′	0.9*	2.7W	21	66	14	0.27
120814	12:14:33.09	38° 42.42′	112° 32.40′	6.1*	1.4	8	134	14	0.18
120814	13:35:04.99	38° 40.52′	112° 32.68′	7.5	1.2	11	105	11	0.22
120814	15:46:22.67	38° 03.45′	112° 44.13′	6.6*	0.8	8	107	52	0.08
120814	22:45:35.87	38° 40.64′	112° 32.81′	8.9	2.3W	12	105	12	0.14
120814	23:12:54.48	39° 28.91′	112° 02.32′	2.2*	0.9	9	91	16	0.17
120814	23:28:01.92	39° 29.41′	112° 02.39′	1.8*	1.3	14	61	17	0.21
120815	02:08:17.16	37° 20.95′	113° 48.29′	1.4*	1.2	10	153	25	0.21
120815	08:33:27.07	39° 42.56′	110° 36.62′	1.7	1.7	10	80	3	0.31
120815	12:23:41.64	37° 28.60′	113° 44.64′	4.2*	0.5	7	151	35	0.16
120815	17:04:20.60	39° 00.26′	111° 29.09′	15.1	1.7	6	97	24	0.08
120815	17:05:34.59	38° 07.09′	109° 05.18′	5.2*	1.7	6	190	11	0.16
120815	17:44:54.47	38° 44.30′	112° 32.40′	2.5*	2.5W	11	125	16	0.21
120815	21:06:21.62	41° 55.93′	112° 25.88′	7.7	1.1	19	188	9	0.21
120815	21:20:55.07	39° 25.06′	111° 04.38′	2.8*	1.4	11	81	12	0.10
120815	21:27:13.02	39° 13.92′	110° 27.99′	15.1	1.3	12	179	14	0.15
120816	02:02:17.29	37° 15.03′	112° 47.22′	0.8*	1.2	16	83	32	0.21
120816	05:44:38.10	41° 25.41′	112° 42.24′	13.4	0.8	14	187	25	0.17
120816	20:45:49.01	41° 46.70′	112° 21.38′	0.4*	2.3W	20	125	15	0.19
120816	20:53:37.92	41° 45.88′	112° 21.44′	7.4	1.5	17	95	13	0.22
120816	22:05:38.34	41° 45.82′	112° 22.30′	7.2	0.5	10	99	12	0.12
120816	22:48:54.53	41° 45.98′	112° 22.04′	8.0	0.7	16	98	13	0.17
120816	22:57:02.82	41° 46.38′	112° 22.85′	2.7*	0.7	10	104	13	0.24
120817	21:55:41.53	39° 26.01′	111° 13.39′	5.2*	1.8	10	119	15	0.12
120818	01:42:24.28	40° 17.66′	111° 26.67′	2.4*	0.6	8	156	15	0.08
120818	05:13:07.63	37° 24.31′	114° 01.57′	5.2*	0.3	6	249	30	0.26
120818	07:48:02.18	41° 33.96′	112° 15.51′	10.3	0.0	10	90	3	0.17
120818	15:12:27.32	39° 25.71′	111° 12.11′	6.3*	1.7	14	132	15	0.14
120819	07:48:36.67	38° 41.42′	112° 32.95′	7.2	0.6	8	122	13	0.07
120820	03:04:21.02	38° 59.64′	111° 28.82′	13.8	1.4	6	98	24	0.13
120820	10:43:35.91	39° 25.80′	111° 12.79′	6.4*	1.5	12	96	15	0.12
120820	10:59:09.54	41° 45.63′	112° 22.63′	6.1	1.5	21	99	12	0.16
120820	20:11:22.23	38° 40.41′	112° 33.10′	6.7	1.6	13	81	12	0.21
120820	20:21:17.84	38° 36.09′	112° 33.39′	7.0	1.4	9	138	10	0.25
120820	20:44:39.59	38° 39.51′	112° 32.77′	7.7	- -	6	119	10	0.04
120820	21:48:38.80	38° 38.11′	112° 33.05′	7.2	1.2	10	139	9	0.17
120821	00:50:20.45	39° 43.77′	110° 48.21′	1.5	1.0	8	185	5	0.40
120821	06:40:40.73	41° 55.17′	111° 53.96′	4.2*	1.2	18	143	17	0.20
120821	14:18:47.09	37° 48.98′	113° 05.56′	3.1*	1.5	17	56	25	0.22
120822	03:57:03.51	39° 26.15′	111° 12.75′	3.4*	1.3	13	117	16	0.16
120822	10:59:35.32	38° 40.91′	112° 32.41′	8.3	1.3	13	118	11	0.13
120822	16:36:32.58	38° 07.16′	109° 05.88′	2.9*	1.5	6	188	12	0.26
120822	17:24:59.00	37° 28.49′	113° 45.06′	3.0*	0.8	7	153	35	0.16
120822	20:29:16.68	39° 25.63′	111° 11.27′	5.7*	1.4	7	149	15	0.20

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120822	21:21:58.47	39° 25.06′	111° 04.07′	5.0*	1.5	11	131	12	0.19
120822	21:56:30.72	39° 25.65′	111° 12.78′	7.7	1.5	10	151	15	0.15
120822	22:52:39.97	41° 52.06′	112° 36.17′	2.6*	0.8	12	190	17	0.21
120823	07:44:26.94	42° 17.31′	111° 25.48′	1.0*	2.0W	13	67	40	0.21
120823	22:30:21.31	40° 41.98′	111° 28.82′	12.2	0.3	11	102	6	0.18
120824	02:34:23.26	39° 26.12′	111° 11.54′	3.9*	1.3	8	110	16	0.16
120824	11:47:10.45	41° 43.44′	112° 50.60′	8.1	1.0	13	213	8	0.13
120824	12:52:24.59	36° 49.64′	111° 23.32′	0.6*	2.8W	12	154	92	0.29
120824	13:29:56.59	41° 45.69′	112° 23.23′	3.8*	0.5	8	102	12	0.22
120824	23:00:18.68	38° 40.60′	112° 36.96′	1.5*	0.9	10	122	17	0.16
120825	06:22:45.40	36° 56.14′	111° 52.93′	9.6*	2.9W	16	122	57	0.33
120825	10:53:30.77	39° 25.92′	111° 12.53′	7.2*	1.7	15	82	15	0.15
120825	20:19:31.94	36° 56.17′	113° 31.89′	0.7*	1.6	7	232	27	0.38
120826	05:36:58.88	37° 26.64′	113° 07.89′	9.0	0.0	6	121	10	0.07
120827	02:06:55.07	39° 31.73′	111° 06.28′	2.9*	1.6W	10	88	15	0.10
120829	04:43:15.02	37° 02.11′	112° 48.90′	14.6	1.2	13	121	29	0.16
120829	10:57:12.02	40° 33.60′	111° 17.21′	12.5	0.9	19	137	8	0.25
120829	11:00:09.04	40° 33.58′	111° 16.11′	9.8	0.1	9	158	12	0.09
120829	11:50:45.17	40° 33.81′	111° 16.10′	13.1	0.9	13	158	9	0.11
120829	21:06:15.62	39° 31.62′	112° 12.89′	2.9*	1.7W	8	112	17	0.22
120830	16:11:02.22	39° 36.47′	110° 21.18′	1.6	0.3	5	287	5	0.25
120831	01:08:59.88	39° 26.16′	111° 12.89′	2.5*	1.2	12	117	16	0.16
120831	20:10:16.21	39° 36.56′	110° 21.43′	1.5	0.4	5	283	4	0.19
120831	21:38:40.18	39° 26.12′	111° 13.85′	2.8*	1.5	8	122	16	0.13
120902	00:29:58.31	38° 41.35′	112° 33.04′	6.3	0.8	8	122	13	0.15
120902	05:09:19.02	38° 43.62′	112° 32.17′	0.2*	2.0	15	71	15	0.18
120903	08:37:38.20	40° 40.98′	111° 36.28′	10.7	0.5	21	48	11	0.17
120903	10:01:26.28	40° 43.52′	112° 09.35′	5.8	0.2	6	148	9	0.09
120903	13:30:52.55	36° 47.93′	112° 54.15′	15.7*	1.5	11	166	39	0.14
120903	17:11:59.24	37° 59.25′	112° 52.60′	3.9*	1.1	9	95	44	0.31
120904	00:40:51.04	40° 49.94′	112° 05.12′	8.7	0.5	11	91	8	0.11
120904	01:23:34.19	38° 27.11′	112° 01.27′	12.9	0.6	9	92	15	0.11
120904	02:23:30.13	40° 49.90′	112° 05.56′	8.4	0.3	8	94	8	0.07
120904	03:09:40.03	38° 29.65′	112° 00.54′	0.8*	1.4	9	150	15	0.14
120904	07:23:09.39	38° 27.17′	112° 01.30′	13.4	1.2	9	92	15	0.11
120904	11:54:57.70	38° 27.63′	112° 00.34′	10.5	0.9	8	95	16	0.18
120904	13:19:16.83	38° 27.88′	112° 00.73′	11.9	0.8	6	159	15	0.02
120905	02:14:19.64	39° 47.99′	111° 59.31′	2.0*	1.1	12	139	19	0.18
120905	08:15:07.22	37° 45.06′	110° 40.35′	6.9*	1.7	13	171	22	0.20
120905	17:48:13.51	38° 27.10′	112° 01.74′	11.5	0.6	9	123	15	0.22
120905	22:07:07.73	38° 29.11′	113° 03.53′	1.8*	1.1	9	106	19	0.16
120906	00:32:06.90	38° 26.84′	112° 01.41′	10.5	0.1	7	176	15	0.09
120906	01:51:47.85	41° 43.88′	112° 54.16′	6.4	1.3	20	207	12	0.21
120906	04:08:07.97	37° 55.67′	112° 53.52′	3.0*	1.5	16	152	37	0.27
120906	08:09:47.49	37° 45.93′	112° 27.99′	3.0*	0.8	17	127	38	0.24

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120906	15:17:25.89	37° 23.87′	114° 09.89′	2.2*	1.7W	10	230	35	0.29
120906	19:15:08.70	39° 25.83′	111° 12.57′	6.5*	1.6W	13	95	15	0.13
120906	22:44:59.36	37° 21.36′	113° 49.50′	1.3*	1.5	11	158	25	0.20
120907	08:05:30.23	39° 26.23′	111° 12.47′	2.5*	1.3	9	116	16	0.17
120908	11:15:16.67	39° 01.04′	111° 32.93′	13.4	0.9	11	75	20	0.19
120908	16:56:06.33	39° 00.57′	111° 29.39′	1.2*	2.7W	21	85	24	0.15
120908	18:08:34.23	41° 03.82′	111° 02.21′	20.5	1.0	15	179	20	0.25
120908	22:25:49.54	41° 26.30′	112° 29.97′	1.6	0.4	13	148	9	0.15
120908	22:27:26.59	39° 32.07′	110° 20.80′	2.3*	1.3	6	204	10	0.17
120909	00:24:34.97	37° 17.00′	114° 07.76′	2.2*	1.4	10	241	24	0.20
120909	12:09:12.70	37° 02.09′	112° 49.10′	14.3	1.3	15	76	2	0.18
120909	23:42:15.66	37° 45.56′	113° 10.98′	4.1*	1.0	13	80	20	0.22
120910	03:23:17.14	37° 02.06′	112° 48.94′	11.9	0.8	10	114	2	0.26
120910	18:56:38.99	37° 09.84′	112° 47.79′	0.8*	2.3W	18	59	17	0.25
120910	18:57:30.00	37° 09.52′	112° 47.65′	0.9*	2.0W	12	90	16	0.25
120910	20:05:44.31	38° 08.25′	109° 06.37′	2.9*	2.8	6	177	12	0.27
120911	05:10:25.71	38° 00.26′	112° 51.40′	7.0*	1.0	10	140	57	0.30
120912	01:59:43.84	38° 42.96′	112° 32.72′	2.5*	0.9	7	155	15	0.14
120912	02:54:39.91	39° 26.41′	111° 12.24′	2.7*	1.1	7	115	16	0.15
120912	09:12:14.97	38° 41.24′	112° 09.21′	3.1*	1.0	7	116	20	0.04
120912	10:45:31.31	39° 14.18′	110° 28.07′	15.0	1.1	12	175	15	0.09
120913	09:32:17.30	39° 42.66′	110° 36.84′	0.0	1.4	11	82	3	0.18
120914	02:37:43.70	37° 10.22′	112° 47.38′	4.2*	1.6	8	141	17	0.21
120914	08:56:35.24	39° 35.30′	110° 23.01′	0.1	2.3W	20	63	4	0.24
120914	11:56:31.64	41° 17.69′	111° 38.91′	14.0	0.9	15	103	22	0.10
120914	17:31:57.42	36° 58.12′	112° 05.52′	7.1*	1.7W	8	246	38	0.14
120915	16:49:32.83	39° 23.80′	111° 18.29′	18.7	0.7	12	116	14	0.09
120917	05:27:07.54	41° 56.45′	112° 36.72′	4.5*	1.1	14	162	23	0.18
120917	13:48:53.12	37° 53.86′	113° 19.14′	2.6*	1.4	11	106	16	0.46
120917	16:05:03.45	36° 55.91′	112° 23.88′	20.5	2.0W	13	117	18	0.18
120917	20:13:17.17	36° 56.16′	112° 23.71′	19.5	2.3W	14	105	18	0.20
120918	09:30:22.87	38° 44.93′	111° 31.71′	1.3	1.2	9	103	10	0.16
120918	09:53:11.84	37° 01.33′	113° 32.06′	2.8*	1.4	9	199	26	0.11
120918	15:14:21.63	38° 44.87′	111° 31.07′	5.6	1.4	7	102	9	0.15
120918	16:02:52.26	38° 08.18′	109° 04.87′	4.7	1.7	5	178	10	0.07
120919	00:19:33.29	38° 30.37′	113° 04.96′	2.2*	1.4	12	103	16	0.23
120919	16:38:03.14	38° 08.75′	109° 06.00′	1.3*	1.8	7	183	12	0.26
120920	00:10:13.34	39° 02.07′	111° 28.70′	13.7	0.9	6	118	22	0.39
120922	04:33:40.43	40° 33.61′	111° 16.30′	11.4	0.4	13	143	12	0.11
120922	09:27:05.15	37° 24.10′	113° 03.31′	15.3	1.2	16	70	8	0.15
120922	22:51:04.40	38° 40.33′	112° 09.79′	1.4*	1.1	9	114	18	0.24
120923	03:06:14.49	39° 38.02′	110° 23.06′	1.7	1.7	9	99	3	0.44
120923	04:23:16.31	37° 49.62′	112° 07.44′	8.8*	2.4W	22	75	23	0.22
120923	13:18:01.10	41° 56.31′	112° 36.35′	7.2*	1.3	19	159	23	0.18
120923	15:24:15.59	37° 40.04′	110° 26.38′	0.1*	1.6	7	206	40	0.14

Table 2. Earthquakes in the Utah Region: July 1–September 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120923	23:42:20.05	37° 17.74′	112° 50.79′	17.5	1.1	13	73	26	0.17
120924	00:06:55.32	37° 17.55′	112° 50.98′	18.9	0.7	7	186	25	0.15
120924	06:46:31.48	38° 59.06′	111° 23.09′	11.9	1.6	7	96	23	0.08
120924	18:57:50.57	39° 24.49′	111° 04.36′	2.5*	1.5	8	113	11	0.08
120924	23:46:57.73	39° 24.62′	111° 04.64′	2.3*	1.6	8	81	11	0.05
120925	01:36:09.60	38° 15.74′	112° 14.77′	2.0*	1.5	17	63	25	0.21
120925	02:05:08.99	39° 24.02′	111° 06.20′	10.3	1.4	10	85	10	0.16
120925	20:02:57.14	41° 56.27′	112° 36.57′	5.5*	0.6	12	160	22	0.16
120925	20:02:25.18	38° 06.05′	109° 05.83′	3.4*	1.7	6	198	12	0.16
120926	16:47:22.07	37° 46.17′	113° 02.73′	10.2	0.7	8	134	20	0.31
120926	17:19:54.90	37° 44.93′	113° 03.88′	3.0*	0.6	8	109	17	0.33
120926	20:00:30.53	39° 24.53′	111° 04.81′	5.4	1.6	13	82	11	0.10
120927	03:00:09.69	40° 07.48′	111° 21.83′	3.9*	1.1	14	110	26	0.19
120927	05:38:07.65	39° 08.64′	111° 39.58′	16.6	2.3W	24	61	5	0.20
120927	14:38:33.62	38° 59.18′	111° 22.77′	6.6*	1.5	8	96	23	0.13
120927	16:06:04.23	39° 24.59′	111° 05.02′	2.4*	1.4	12	82	11	0.17
120927	21:14:28.67	38° 29.47′	113° 03.99′	1.8*	0.8	6	115	18	0.25
120928	03:55:07.82	41° 42.38′	111° 40.94′	8.6	0.8	14	65	13	0.16
120928	14:54:34.64	37° 09.79′	112° 06.49′	7.3*	2.9W	17	106	36	0.27
120928	16:11:11.72	38° 05.69′	112° 40.86′	3.8*	0.9	10	60	28	0.19
120928	18:35:49.91	37° 41.60′	110° 30.21′	1.2*	1.3	5	274	89	0.11
120928	22:06:37.95	37° 11.17′	112° 58.96′	21.9	0.8	10	92	23	0.23
120929	13:45:22.20	37° 59.65′	112° 53.50′	1.4*	2.2W	20	61	15	0.38
120929	13:50:53.48	38° 00.30′	112° 53.52′	7.7	1.1	13	86	15	0.26
120929	17:44:54.66	38° 04.51′	112° 51.44′	4.5*	0.6	6	93	13	0.07
120930	00:41:38.66	38° 59.09′	111° 28.75′	2.9*	1.8W	13	88	23	0.13
120930	01:12:57.76	37° 47.06′	113° 05.17′	3.0*	0.9	7	149	21	0.19
120930	01:17:11.13	37° 47.67′	113° 04.47′	3.0*	1.4	7	148	22	0.26
120930	08:31:51.28	41° 35.24′	112° 12.95′	3.5	0.6	12	84	3	0.17
120930	22:03:30.75	40° 43.69′	112° 14.01′	1.6*	1.4	17	67	13	0.18

number of earthquakes = 390
* indicates poor depth control
W indicates Wood-Anderson data used for magnitude calculation

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
September 30, 2012

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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
7229	City Maintenance Shop Santaquin, UT	7229	HN[ZEN]	3	NP	39° 58.35′	111° 47.58′	1520	EpiSensor	Etna	Digital	NSMP, ANSS
7232	City Parks & Recreation Office Tremonton, UT	7232	HN[ZEN]	3	NP	41° 43.13′	112° 10.91′	1320	EpiSensor	Etna	Digital	NSMP, ANSS
AHI	Auburn, ID	AHID	BH[ZEN]	3	US	42° 45.92′	111° 06.02′	1960	*	*	Digital	USGS
ALP	Alpine Fire Station, Alpine, UT	ALP	EN[ZEN]	3	UU	40° 27.26′	111° 46.61′	1510	EpiSensor	K2	Digital	ANSS
ALT	Alta City Offices, Alta, UT	ALT	EN[ZEN]	3	UU	40° 35.42′	111° 38.25′	2635	Applied Mems	ANSS-130	Digital	ANSS
AMF	Tri-Cities Golf Course American Fork, UT	AMF	EN[ZEN]	3	UU	40° 24.11′	111° 47.27′	1445	EpiSensor	K2	Digital	ANSS
ANMO	Albuquerque, NM	ANMO	BH[ZEN]	3	IU	34° 57.01′	106° 27.61′	1743	*	*	Digital	USGS
ARGU	Argyle Ridge, UT	ARGU	EHZ	1	UU	39° 49.37′	110° 32.62′	2828	S13	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 Mems	ANSS-130	Digital	ANSS
BCE	Book Cliffs East, UT	BCE	EHZ EN[ZEN]	4	UU	39° 36.79′	110° 24.51′	2666	L4C EpiSensor	K2	Digital	Utah
BCS	Brigham City Maintenance Shop Brigham City, UT	BCS	EN[ZEN]	3	UU	41° 30.71′	112° 01.98′	1303	EpiSensor	K2	Digital	ANSS
BCU	Brigham City, UT	BCU	EN[ZEN]	3	UU	41° 30.74′	111° 58.93′	1676	EpiSensor	K2	Digital	ANSS
BCW	Book Cliffs West, UT	BCW	EHZ EN[ZEN]	4	UU	39° 43.82′	110° 44.55′	2614	L4C 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 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] HH[ZEN]	3 3	UU	40° 55.53′	113° 01.79′	1640	EpiSensor Trillium 120	Q330	Digital	ANSS
BHU	Blowhard Mountain, UT	BHU	EH[ZEN]	3	UU	37° 35.55′	112° 51.42′	3230	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
BMN	Battle Mountain, NM	BMN	BHZ	1	NN	40° 25.89′	117° 13.31′	1594	*	*	Digital	UNR
BMUT	Black Mountain, UT	BMUT	EHZ	1	UU	41° 57.49′	111° 14.05′	2243	S13	PSN	Analog	USGS
BON	Boundary Peak, NV	BONR	SHZ	1	NN	37° 57.31′	118° 18.10′	2582	*	*	Digital	UNR

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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° 37.67′	110° 14.56′	1687	Trillium 240	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
BSS	Butlerville Substation 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 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 Copperton, UT	CFS	EN[ZEN]	3	UU	40° 33.96′	112° 05.61′	1654	EpiSensor	K2	Digital	ANSS
CHS	Copper Hills High School, West Jordan, UT	CHS	EN[ZEN]	3	UU	40° 35.68′	112° 01.03′	1460	Applied Mems	ANSS-130	Digital	ANSS
COM	Craters of the Moon, ID	COMI	EHZ	1	IE	43° 27.72′	113° 35.64′	1890	*	*	Digital	INL
COY	Coyote Canyon, 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	MB	45° 27.35′	110° 08.41′	2941	*	*	Analog	MBMT
CTU	Camp Tracy, UT	CTU	HH[ZEN]	3	UU	40° 41.55′	111° 45.02′	1731	40T	72A-07	Digital	USGS
CVH	Cedar City, Canyon View High School, UT	CVH	EN[ZEN]	3	UU	37° 42.91′	113° 03.85′	1724	PA-23	SMART-24	Digital	Utah
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			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	*	*	Digital	USGS
			EH[ZEN]	3	UU				S13	PSN	Analog	Utah, USGS
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
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	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
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
FLWY	Flagg Ranch, WY	FLWY	BH[ZEN]	3	IW	44° 04.96′	110° 41.96′	2078	3ESP	RT-130	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
GBI	Big Grassy Butte, ID	GBI	EHZ	1	IE	43° 59.22′	112° 03.78′	1541	*	*	Digital	INL
GCN	Grand Canyon, AZ	GCN	EHZ	1	AR	36° 02.64′	112° 07.68′	2294	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	GMO	EN[ZEN]	3	UU	40° 36.04′	112° 28.48′	1320	Applied Mems	ANSS-130	Digital	ANSS
GMU	Granite Mountain, UT	GMU	EH[ZEN]	3	UU	40° 34.53′	111° 45.79′	1829	S13	PSN	Analog	USGS
GMV	Granite Mountain Vault Sandy, UT	GMV	EN[ZEN]	3	UU	40° 34.40′	111° 45.79′	1829	EpiSensor	K2	Digital	ANSS
GRR	Grays Lake, ID	GRRI	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
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
HFSU	Holladay Fire Station Holladay, UT	HFSU	EN[ZEN]	3	UU	40° 40.21′	111° 49.54′	1344	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	K2	Digital	
HMU	Henry Mountain, UT	HMU	HH[ZEN]	3	UU	37° 56.28′	110° 44.51′	2430	3T	72A-07	Digital	Utah
HON	Honeyville, UT	HON	EN[ZEN]	3	UU	41° 36.97′	112° 03.05′	1528	Applied Mems	ANSS-130	Digital	ANSS
HONU		HONU	EHZ	1					L4C	PSN	Analog	USGS
HRU	Hogsback Ridge, UT	HRU	EHZ	1	UU	40° 47.67′	111° 53.14′	1620	Ranger	PSN	Analog	USGS
			EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
HTU	Hoyt, UT	HTU	EHZ	1	UU	40° 40.52′	111° 13.21′	2576	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					Episensor			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
HVU	Hansel Valley, UT	HVU	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
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			
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	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			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
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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
LMU	Lake Mountain, UT	LMU	EN[ZEN]	3	UU	40° 18.91′	111° 55.92′	1593	EpiSensor	K2	Digital	ANSS
LOHW	National Elk Refuge, WY	LOHW	BH[ZEN]	3	IW	43° 36.76′	110° 36.30′	2245	3ESP	RT-130	Digital	ANSS
LRG	Logan River Golf Course	LRG	EN[ZEN]	3	UU	41° 42.82′	111° 51.08′	1362	Applied Mems	ANSS-130	Digital	ANSS
LSU	Lake Shores, UT	LSU	EN[ZEN]	3	UU	40° 07.94′	111° 43.80′	1375	EpiSensor	K2	Digital	ANSS
LTU	Little Mountain, UT	LTU	EHZ	1	UU	41° 35.51′	112° 14.83′	1585	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
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
MGU	Meadow Brook Golf Course Salt Lake City, UT	MGU	EHZ	1	UU	40° 40.89′	111° 55.09′	1291	Ranger	PSN	Analog	USGS
MHD	Mile High Drive, UT	MHD	EHZ	1	UU	40° 39.64′	111° 48.05′	1597	Ranger	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			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	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			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
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
MTLO	Mt. Logan, AZ	MTL	EHZ	1	AR	36° 21.18′	113° 11.94′	2418	*	*	Analog	NAU

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
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 º 2 Ogden, UT	OF2	EN[ZEN]	3	UU	41° 13.70′	111° 56.92′	1358	EpiSensor	K2	Digital	ANSS
OPS	Ogden Public Safety Building, Ogden, UT	OPS	EN[ZEN]	3	UU	41° 13.72′	111° 58.54′	1317	Applied Mems	ANSS-130	Digital	ANSS
OSS	Oquirrh Sub Station, UT	OSS	EN[ZEN]	3	UU	40° 33.77′	112° 01.61′	1503	Applied Mems	ANSS-130	Digital	ANSS
OWUT	Old Woman Plateau, UT	OWUT	EHZ	1	UU	38° 46.80′	111° 25.42′	2568	L4C	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			
PCL	Plain City Landfill Plain City, UT	PCL	EN[ZEN]	3	UU	41° 18.60′	112° 06.00′	1290	Applied Mems	ANSS-130	Digital	ANSS
PCR	Park City Recreation Center Park City, UT	PCR	EN[ZEN]	3	UU	40° 39.25′	111° 30.19′	2100	EpiSensor	K2	Digital	ANSS
PEUT	Richfield, Pahvant Elementary School, UT	PEUT	EN[ZEN]	3	UU	38° 46.55′	112° 05.32′	1644	PA-23	SMART-24	Digital	Utah
PGAZ	Page, AZ	PGA	EHZ	1	AR	36° 54.34′	111° 16.86′	1272	*	*	Analog	NAU
PGC	Pleasant Grove Creek, UT	PGC	EN[ZEN]	3	UU	40° 22.71′	111° 42.62′	1707	EpiSensor	K2	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
PKCU	Pink Cliffs, UT	PKCU	HH[ZEN]	3	UU	37° 26.63′	112° 18.66′	2834	Trillium 120	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
PNSU	Preston Nutter Ranch, Sunnyside, UT	PNSU	HH[ZEN]	3	UU	39° 28.38′	110° 44.40′	2743	Trillium 240	Q330	Digital	Utah
PRN	Pahroc, Range, NV	PRN	SHZ	1	NN	37° 24.40′	115° 03.05′	1402	*	*	Digital	UNR
PSUT	Pine Spring, UT	PSUT	HH[ZEN]	3	UU	38° 32.02′	113° 51.28′	1999	Trillium 120	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
PTI	Pocatello, ID	PTI	EHZ	1	IE	42° 52.20′	112° 22.21′	1670	*	*	Digital	INL
PTU	Portage, UT	PTU	EHZ	1	UU	41° 55.76′	112° 19.48′	2192	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
QLMZ	Earthquake Lake, MT	QLMT	EHZ	1	MB	44° 49.84′	111° 25.80′	2064	*	*	Analog	MBMT
RBUZ	Red Butte Canyon, UT	RBU	EHZ	1	UU	40° 46.85′	111° 48.50′	1676	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			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
RIV	Public Works Building Riverton, UT	RIV	EN[ZEN]	3	UU	40° 31.16′	111° 56.05′	1347	EpiSensor	K2	Digital	ANSS
ROA	Roan Cliffs, UT	ROA	EHZ	1	UU	39° 39.69′	110° 21.88′	2962	S13	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			
RRI2	Red Ridge, ID	RRI2	BH[ZEN]	3	IW	43° 20.84′	111° 19.20′	2547	3ESP	RT-130	Digital	ANSS
RSUT	Red Spur, UT	RSUT	EHZ	1	UU	41° 38.31′	111° 25.90′	2682	S13	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SAIU	South Antelope Island, UT	SAIU	EHZ	1	UU	40° 51.29′	112° 10.89′	1384	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
SCC	Salt Lake Community College	SCC	EN[ZEN]	3	UU	40° 40.49′	111° 56.37′	1306	EpiSensor	K2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	SCS	EN[ZEN]	3	UU	41° 05.73′	112° 02.81′	1321	EpiSensor	K2	Digital	ANSS
SCUT	Santa Clara, UT	SCUT	EN[ZEN]	3	UU	37° 07.69′	113° 38.68′	837	EpiSensor	Etna	Digital	Utah
SCY	Salem City Yard, Salem, UT	SCY	EN[ZEN]	3	UU	40° 03.47′	111° 41.14′	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	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	EHZ	1	NN	36° 30.33′	115° 09.61′	1590	*	*	Digital	UNR
SJF	South Jordan Fire Station, South Jordan, UT	SJF	EN[ZEN]	3	UU	40° 33.37′	111° 56.34′	1356	Applied Mems	ANSS-130	Digital	ANSS
SNO	Snow College, UT	SNO	EHZ	1	UU	39° 19.18′	111° 32.33′	2503	Ranger	PSN	Analog	Utah
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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SZCU	Shurtz Canyon, UT	SZCU	HH[ZEN]	3	UU	37° 35.72′	113° 05.25′	2026	3T	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
TCRU	Three Creeks Reservoir, UT	TCRU	HH[ZEN]	3	UU	38° 36.57′	112° 26.83′	2293	Trillium 120	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
TCU	Toone Canyon, UT	TCU	EN[ZEN]	3	UU	41° 07.04′	111° 24.47′	2269	EpiSensor	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
TCVU	Timpanogos Cave, UT	TCVU	EHZ	1	UU	40° 26.61′	111° 42.31′	1730	L4C	Basalt	Digital	Utah
			EN[ZEN]	3					EpiSensor			
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			
TPMZ	Teepe Creek, MT	TPMT	EHZ	1	MB	44° 43.79′	111° 39.94′	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	TPNV	BH[ZEN]	3	US	36° 56.93′	116° 14.97′	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	TPU	EN[ZEN]	3	UU	40° 25.81′	111° 54.13′	1383	EpiSensor	K2	Digital	ANSS
TRC	Troy Canyon, NV	TRC	BHZ	1	NN	38° 20.98′	115° 35.11′	1815	*	*	Digital	UNR
TRS	Tooele County Radio Shop, Tooele, UT	TRS	EN[ZEN]	3	UU	40° 30.83′	112° 18.63′	1568	EpiSensor	K2	Digital	ANSS
TUC	Tucson, AZ	TUC	BH[ZEN]	3	US	32° 18.58′	110°47.05′	906	*	*	Digital	USGS
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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
VNL	Vernal, UT	VNL	EN[ZEN]	3	UU	40° 27.48′	109° 32.89′	1648	FBA23	Etna	Digital	Utah
W13A	Hualapai Mountain Park, Kingman, AZ	W13A	BH[ZEN]	3	AE	35° 06.00′	113°53.40′	1988	3T	Q330	Digital	AZGS
WBC	Weber Canyon, UT	WBC	EN[ZEN]	3	UU	41° 08.38′	111° 54.05′	1602	EpiSensor	K2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	WCF	EN[ZEN]	3	UU	41° 38.37′	111° 55.94′	1387	Applied Mems	ANSS-130	Digital	ANSS
WCN	Washoe, NV	WCN	HHZ	1	NN	39° 18.10′	119° 45.38′	1500	*	*	Digital	UNR
WCO	Washington City Office Building, UT	WCO	EN[ZEN]	3	UU	37° 07.91′	113° 30.56′	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	WCU	EHZ	1	UU	38° 57.88′	112° 05.44′	2673	18300	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
WDO	Saint George, Washington County School District Office, UT	WDO	EN[ZEN]	3	UU	37° 06.46′	113° 35.19′	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	WES	EN[ZEN]	3	UU	40° 43.97′	111° 51.26′	1341	EpiSensor	K2	Digital	ANSS
WHS	West High School	WHS	EN[ZEN]	3	UU	40° 46.51′	111° 53.93′	1301	EpiSensor	K2	Digital	ANSS
WMUT	West Mountain, UT	WMUT	EHZ	1	UU	40° 04.60′	111° 50.00′	1981	L4C	PSN	Analog	USGS
			EHZ	1						Basalt	Digital	
			EN[ZEN]	3					EpiSensor			
WRP	Water Reclamation Plant Salt Lake City, UT	WRP	EN[ZEN]	3	UU	40° 48.82′	111° 55.87′	1286	Applied Mems	ANSS-130	Digital	ANSS
WTU	Western Traverse Mountains, UT	WTU	EH[ZEN]	4	UU	40° 27.29′	111° 57.21′	1552	S13	PSN	Analog	USGS
			EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
WUAZ	Wupatki, AZ	WUAZ	BH[ZEN]	3	US	35° 31.01′	111° 22.43′	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	WVUT	EHZ	1	UU	41° 36.61′	111° 57.55′	1828	L4C	PSN	Analog	USGS
YDC	Denny Creek, MT	YDC	EHZ	1	WY	44° 42.51′	111° 14.60′	2025	L4C	PSN	Analog	USGS
YFT	Old Faithful (YNP), WY	YFT	HH[ZEN]	3	WY	44° 27.05′	110° 50.24′	2292	Trillium 120	72A-07	Digital	USGS
			EN[ZEN]	3					Titan			
			EHZ	1					L4C	None	None	
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					40T	ANSS-130	Digital	
			EN[ZEN]	3					Titan			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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	Q330	Digital	
			EN[ZEN]	3					Titan			
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			
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	Q330	Digital	
			EN[ZEN]	3					Titan			
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	Taurus	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	RT-130	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	Q330	Digital	
			EN[ZEN]	3					Titan			
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	Q330	Digital	
			EN[ZEN]	3					Titan			
YUF	Upper Falls (YNP), WY	YUF	HH[ZEN]	3	WY	44° 42.76′	110° 30.71′	2394	3ESP	ANSS-130	Digital	USGS
			EN[ZEN]	3					Titan			
YWB	West Boundary (YNP), WY	YWB	EHZ	1	WY	44° 36.35′	111° 06.05′	2310	L4C	PSN	Analog	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
ZNPU	Zion National Park, UT	ZNPU	HH[ZEN]	3	UU	37° 21.37′	113° 07.52′	1953	Trillium 120	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			

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

Network Statistics: 797 data channels from 258 stations were being recorded at the end of this report period

EXPLANATION OF TABLE

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

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

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

SEED Channel: The SEED format uses three letters to name seismic channels. See <<http://www.iris.edu/manuals/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/stations/networks.txt>> for information about registered seismograph network codes. Network codes referenced in this table:

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

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

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

Elevation: Sensor altitude in meters above sea level.

Sensor	**Description**
L4, L4C	Mark Products short-period seismometer
S13, 18300	Geotech S13 or 18300 short-period seismometer
Ranger	Kinemetrics Ranger short-period seismometer
40T	Guralp CMG-40T broadband seismometer
3T	Guralp CMG-3T broadband seismometer
3ESP	Guralp CMG-3ESP broadband seismometer
STS-2	Streckheisen STS-2 broadband seismometer
FBA23	Kinemetrics FBA-23 accelerometer
EpiSensor	Kinemetrics EpiSensor accelerometer
Applied Mems	Applied Mems accelerometer
PA-23	Geotech PA-23 accelerometer
Compact	Nanometrics Compact broadband seismometer
Trillium 120	Nanometrics Trillium 120 broadband seismometer
Trillium 240	Nanometrics Trillium 240 broadband seismometer
Titan	Nanometrics Titan accelerometer
Observer	Refraction Technology (REF TEK) 151 Observer broadband seismometer

Digitizer	**Description**
K2	Kinemetrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinemetrics Altus Series Etna (18-bit resolution field digitizer)
72A-07	Refraction Technology (REF TEK) model 72A-07 (24-bit field digitizer)
72A-08	Refraction Technology (REF TEK) model 72A-08 (24-bit field digitizer)
ANSS-130	Refraction Technology (REF TEK) model 130-ANSS/02 (24-bit resolution field digitizer)
RT-130	Refraction Technology (REF TEK) model RT-130 (24-bit resolution field digitizer)
Q330	Quanterra, Inc Q330 digitizer (24-bit resolution field digitizer)
SMART-24	Geotech SMART-24 digitizer (24-bit resolution field digitizer)

PSN	PSN-ADC-SERIAL version III (16-bit resolution field digitizer)
Basalt	Kinemetrics Basalt (24-bit resolution field digitizer)
Taurus	Nanometrics Taurus (24-bit resolution field digitizer)

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

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

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

NETWORK CHANGES DURING JULY 1-SEPTEMBER 30, 2012

September 13	Installation station TCVU (EHZ, EN[ZEN]).
September 19	Installation station BSUT (EN[ZEN], HH[ZEN]).