EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

April 1 – June 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

August 27, 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
April 1 – June 30, 2012

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During the three-month period April 1 through June 30, 2012, the University of Utah Seismograph Stations (UUSS) located 374 earthquakes within the Utah region (Figure 1). The total includes one earthquake in the magnitude 4 range, two earthquakes in the magnitude 3 range, and 29 earthquakes in the magnitude 2 range. Earthquakes of magnitude 3.0 or larger (plotted as stars and specifically labeled on Figure 1) are listed below. Three earthquakes were reported felt during the report period (see Table 1, a cumulative tabulation of earthquakes during 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 4.1	April 11	21:29 MDT	14 mi NNW of Tropic, UT (felt, CIIM intensity map, ShakeMap, see Table 1)
M_L 3.1	May 2	07:10 MDT	15 mi NNE of Evanston, WY
M_L 3.0	June 21	23:37 MDT	32 mi NE of Escalante, UT (felt, CIIM intensity map, see Table 1)

Other Notable Seismicity

During the report period, there were five notable spatial clusters of natural earthquake activity (labeled A to E 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 ($-0.8 \le M \le 2.2$) occurred about 23 miles SSW of Malad City, ID. Four of these events, including a magnitude 2.2 shock, occurred on May 2.

B. A cluster of 12 earthquakes ($-0.8 \le M \le 1.7$) occurred about 17 miles WNW of Garland, UT. Seven of these events, including a magnitude 1.7 shock, occurred between April 6 and April 9.

C. A cluster of 15 earthquakes ($1.4 \le M \le 3.0$) occurred about 33 miles NE of Escalante, UT. Four of these events, including a magnitude 3.0 shock, occurred on June 22.

D. A cluster of 10 earthquakes ($1.5 \le M \le 4.1$) occurred about 14 miles NNW of Tropic, UT. Six of these events, including a magnitude 4.1 shock, occurred on April 12.

E. A cluster of 18 earthquakes ($1.6 \le M \le 2.7$) occurred about 4 mi ESE of Panguitch, UT. Sixteen of these events, including a magnitude 2.7 shock, occurred between April 10 and April 15.

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 171 located shocks ($-0.2 \le M \le 2.1$) that occurred throughout the report period.

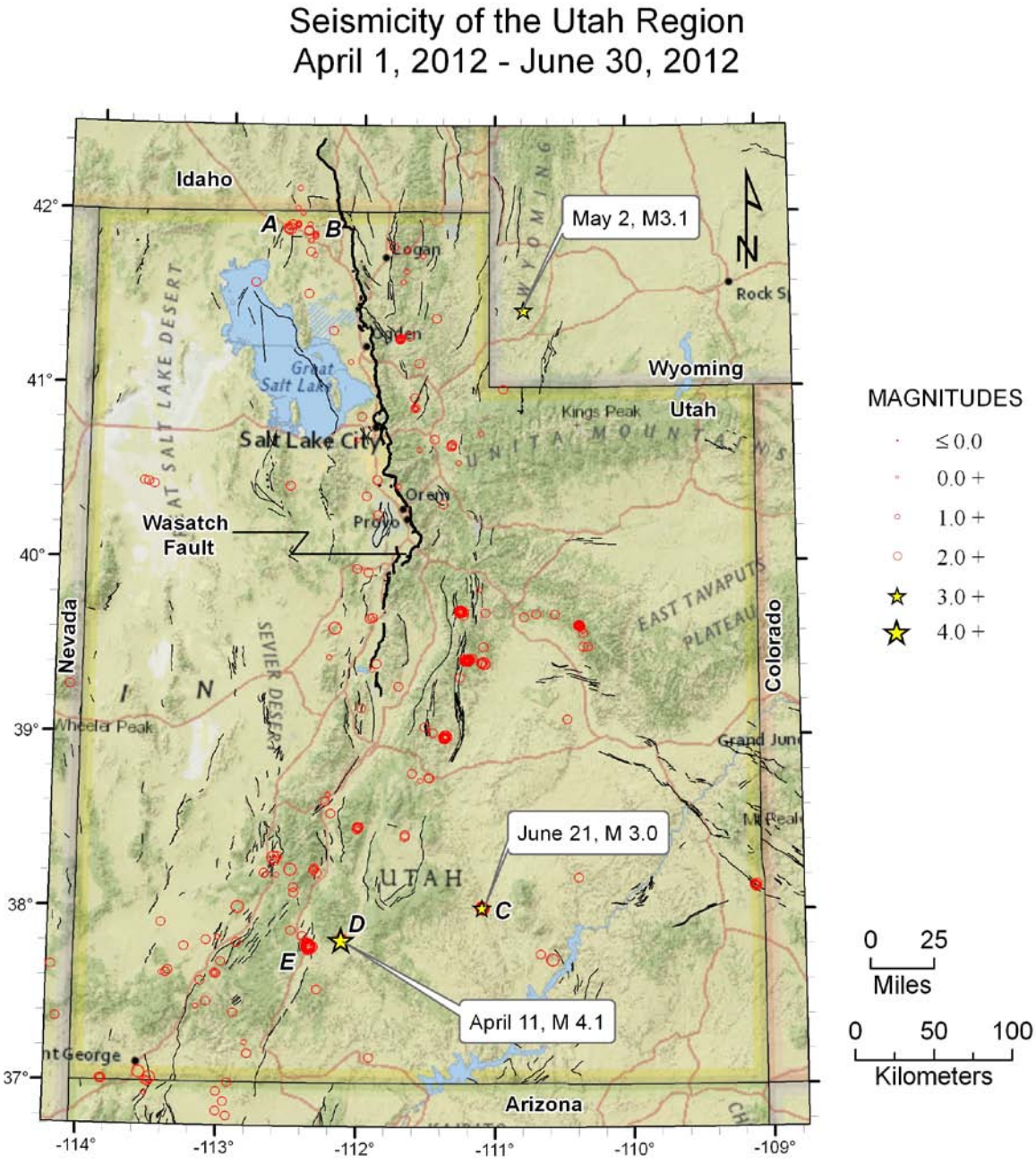


Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local date and size.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

Table 1

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

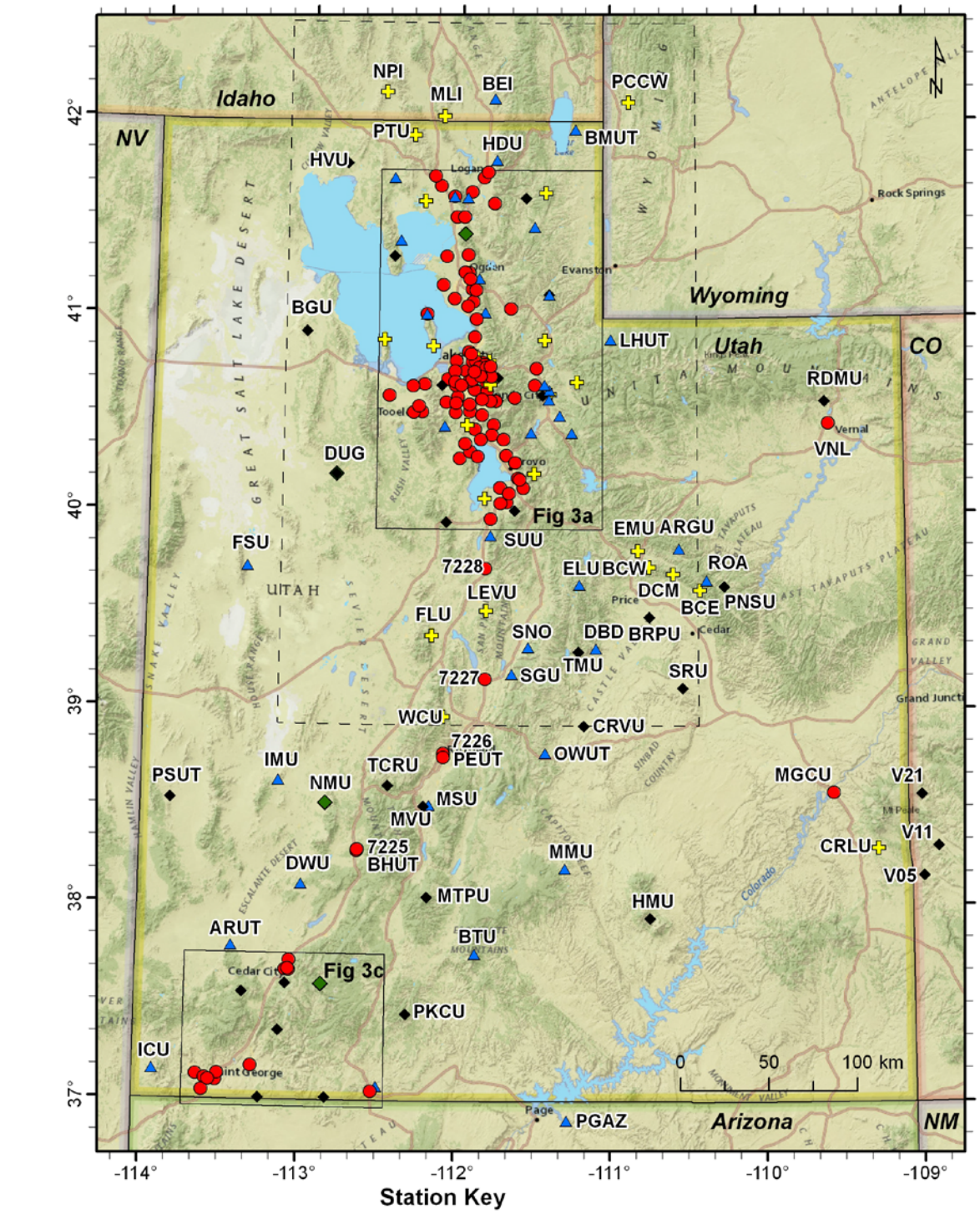
Table 1

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

March 25	17:07 MDT 23:07 UTC	Utah. *CIIM*. 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*. 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

† 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
June 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

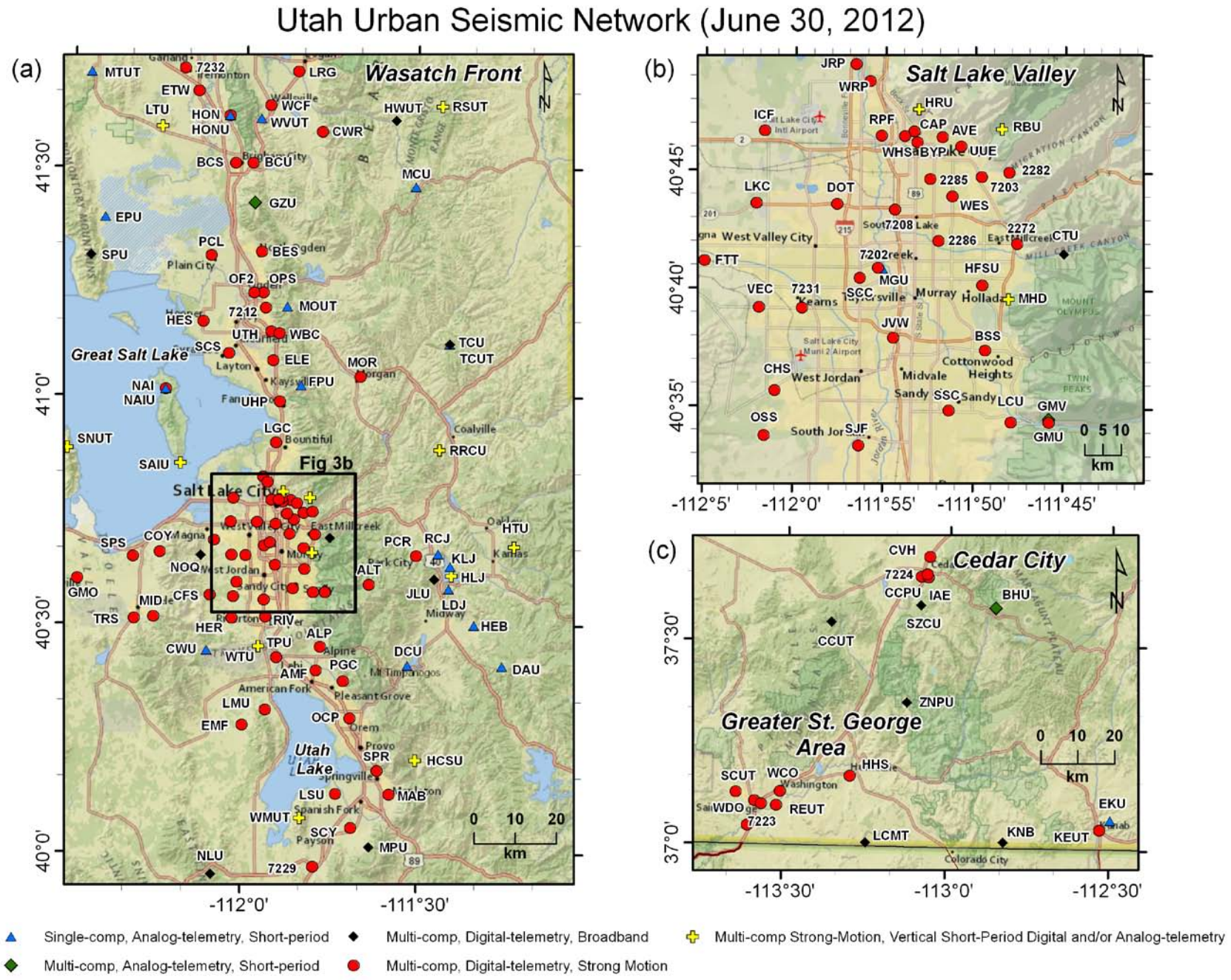

Utah Urban Seismic Network (June 30, 2012)
(a)
Wasatch Front
Great Salt Lake
Salt Lake City
Utah Lake
Fig 3b
MTUT
7232
LRG
ETW
LTU
HON
HONU
WCF
WVUT
HWUT
RSUT
CWR
BCS
BCU
MCU
GZU
EPU
SPU
PCL
BES
OF2
OPS
MOUT
7212
HES
UTH
WBC
SCS
ELE
MOR
TCU
TCUT
NAI
NAIU
FPU
UHP
LGC
SNUT
SAIU
RRCU
SPS
COY
NOQ
PCR
RCJ
KLJ
HLJ
ALT
JLU
LDJ
HTU
GMO
MID
CFS
TRS
RIV
HER
HEB
ALP
CWU
TPU
WTU
DCU
PGC
AMF
DAU
LMU
EMF
OCP
SPR
HCSU
LSU
MAB
WMUT
SCY
MPU
NLU
7229
0 10 20
km
41°30'
41°0'
40°30'
40°0'
-112°0'
-111°30'
(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
FTT
7202
HFSU
MGU
VEC
7231
SCC
Murray
Holladay
MHD
JVW
BSS
CHS
West Jordan
Midvale
Cottonwood Heights
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
WDO
REUT
7223
EKU
LCMT
KNB
KEUT
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: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120401	03:25:11.67	38º 59.29′	111º 22.37′	5.9*	1.8	7	122	24	0.12
120401	03:50:16.92	39º 25.90′	111º 12.99′	2.5*	1.6W	12	68	15	0.15
120401	10:08:52.64	37º 54.81′	113º 25.57′	7.3	1.3	9	223	14	0.30
120402	01:24:00.01	40º 56.09′	111º 36.38′	11.7	1.4	12	101	15	0.07
120402	18:07:34.88	41º 07.97′	111º 34.61′	9.3	1.1	12	88	14	0.10
120402	19:40:40.83	39º 26.01′	111º 13.04′	6.9*	1.6	11	118	15	0.15
120402	21:25:32.24	39º 25.58′	111º 12.74′	3.5*	1.1	6	151	14	0.06
120403	02:30:11.92	39º 00.01′	111º 22.48′	17.2	1.5	7	96	25	0.12
120403	08:01:32.62	38º 59.39′	111º 22.66′	11.8*	1.7	6	101	24	0.04
120403	13:01:12.78	39º 26.34′	111º 13.96′	2.6*	1.3	10	123	16	0.16
120403	13:44:25.09	39º 37.87′	110º 23.32′	0.0	0.7	6	128	3	0.11
120403	17:42:05.25	39º 25.87′	111º 12.74′	3.2*	1.3	8	116	15	0.12
120403	18:17:30.21	39º 26.06′	111º 12.52′	2.9*	0.9	7	115	15	0.14
120403	21:25:21.76	39º 25.43′	111º 12.59′	7.1	1.4	14	150	14	0.18
120403	22:53:23.19	39º 25.90′	111º 12.67′	3.1*	1.0	9	116	15	0.13
120404	00:33:47.77	39º 25.71′	111º 13.67′	2.6*	1.1	11	119	15	0.10
120404	05:06:06.23	39º 25.57′	111º 12.79′	4.8*	1.2	14	115	14	0.13
120404	10:52:34.32	39º 25.58′	111º 12.82′	4.9*	1.2	11	115	14	0.13
120404	10:53:42.98	39º 37.61′	110º 29.66′	7.1	-.2	5	248	8	0.20
120404	11:01:22.13	39º 25.69′	111º 12.71′	2.2*	1.1	10	151	15	0.12
120404	17:55:32.16	39º 26.15′	111º 11.05′	6.9*	1.3	5	154	16	0.12
120404	18:18:56.10	39º 25.99′	111º 12.44′	3.0*	1.4	11	115	15	0.14
120404	19:53:30.29	39º 22.55′	111º 54.66′	15.6	0.7	10	77	17	0.17
120405	00:24:14.09	39º 26.11′	111º 12.31′	2.9*	1.2	7	114	15	0.16
120405	00:42:52.92	39º 25.76′	111º 12.52′	9.7	0.9	6	114	15	0.16
120405	04:28:12.89	39º 25.73′	111º 12.27′	2.2*	1.3	11	113	15	0.19
120405	06:42:30.43	39º 25.74′	111º 12.94′	2.2*	1.5	13	116	15	0.15
120405	10:21:24.33	41º 31.80′	112º 25.08′	4.2*	1.3	11	127	15	0.12
120405	14:45:45.63	39º 25.87′	111º 12.72′	3.0*	1.5	10	116	15	0.13
120405	16:19:11.65	39º 26.14′	111º 12.39′	3.0*	1.1	7	121	15	0.13
120405	20:13:51.67	39º 57.18′	112º 01.60′	1.8	1.3	7	123	4	0.22
120405	22:04:34.83	39º 24.44′	111º 04.52′	5.5	1.6	12	130	11	0.13
120406	06:41:35.26	41º 53.53′	112º 25.56′	4.7	1.1	17	98	9	0.19
120406	13:41:49.41	39º 26.10′	111º 12.22′	0.0*	1.0	7	114	15	0.19
120406	15:43:01.86	41º 53.14′	112º 25.50′	6.8	1.7	19	97	10	0.16
120407	08:11:49.44	39º 26.00′	111º 13.24′	5.7*	1.1	12	119	15	0.13
120407	08:37:01.63	39º 41.62′	110º 33.56′	1.1	1.3	7	107	2	0.09
120407	13:43:31.11	39º 42.56′	111º 15.80′	12.2	1.4W	10	116	9	0.12
120407	15:43:13.30	41º 55.59′	112º 30.38′	2.5*	0.8	10	124	15	0.17
120408	00:08:29.35	41º 55.93′	112º 30.37′	2.3*	0.6	10	125	15	0.16
120408	01:51:48.51	41º 55.24′	112º 30.26′	0.9*	0.9	13	122	15	0.23
120408	02:35:35.79	39º 43.23′	111º 15.44′	7.0*	1.4	6	119	39	0.18
120408	11:44:50.57	39º 37.40′	110º 23.22′	0.1	0.4	5	207	5	0.19
120408	12:05:12.66	41º 55.15′	112º 29.87′	3.9*	-.8	6	120	14	0.17
120408	17:19:08.78	42º 01.07′	112º 30.77′	0.0*	0.9	13	139	14	0.12

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120408	20:28:05.37	42º 08.09′	112º 29.88′	7.9	0.6	9	161	2	0.20
120409	08:46:25.23	41º 50.05′	112º 24.41′	0.2*	0.5	15	86	13	0.10
120409	15:16:59.13	39º 25.80′	111º 12.87′	5.4*	1.4	12	116	15	0.17
120409	22:33:28.28	38º 59.29′	111º 22.91′	2.7*	1.3W	11	81	24	0.10
120409	23:19:36.54	39º 25.70′	111º 13.33′	5.7*	1.6	13	118	15	0.15
120410	03:22:19.02	39º 25.56′	111º 12.16′	2.1*	1.3	7	112	16	0.13
120410	04:11:57.13	39º 15.89′	114º 08.25′	1.4*	1.7	9	227	82	0.17
120410	05:15:29.78	37º 46.87′	112º 19.96′	2.3*	2.0	15	114	32	0.18
120410	05:23:04.18	37º 46.24′	112º 21.21′	0.8*	2.1W	15	91	37	0.22
120410	06:22:19.33	37º 49.98′	113º 00.48′	4.7*	0.8	11	100	30	0.17
120410	06:40:59.43	39º 25.71′	111º 12.70′	3.5*	1.0	13	115	15	0.17
120410	09:31:25.20	39º 43.02′	111º 15.64′	8.9*	1.4	11	107	40	0.20
120410	11:38:57.18	38º 59.23′	111º 22.69′	3.2*	1.3W	15	80	23	0.13
120410	16:24:02.90	39º 25.79′	111º 13.06′	4.6*	1.7W	21	65	15	0.18
120410	18:51:12.16	40º 41.91′	111º 27.35′	2.0	1.2	5	201	5	0.07
120410	19:51:54.62	39º 25.64′	111º 13.40′	3.7*	1.6W	16	63	15	0.16
120411	00:05:51.89	39º 26.03′	111º 12.40′	2.2*	1.4	11	115	15	0.15
120411	00:54:30.57	39º 42.95′	111º 15.09′	13.6*	1.5	11	83	39	0.16
120411	06:51:15.88	39º 25.69′	111º 12.83′	5.4*	1.1	13	69	15	0.15
120411	19:41:06.85	39º 25.88′	111º 12.80′	3.0*	1.5W	11	116	15	0.13
120412	00:25:31.01	37º 46.90′	112º 21.11′	0.0*	2.7W	19	110	32	0.29
120412	03:29:22.60	37º 49.54′	112º 06.91′	5.1*	4.1W	21	118	25	0.25
120412	03:35:35.72	37º 49.11′	112º 06.80′	8.4*	2.3W	21	118	26	0.24
120412	03:39:51.85	37º 49.18′	112º 06.70′	6.8*	2.4W	21	118	26	0.30
120412	03:53:53.88	37º 49.56′	112º 06.77′	10.0*	1.9W	17	118	25	0.24
120412	04:16:04.31	37º 49.29′	112º 07.20′	6.6*	2.4W	23	118	25	0.30
120412	04:52:31.74	37º 46.65′	112º 21.68′	1.5*	2.2W	19	90	33	0.26
120412	04:57:34.35	37º 49.40′	112º 06.82′	6.2*	2.5W	22	118	25	0.33
120412	05:07:09.13	39º 38.12′	110º 22.96′	0.0	1.6	11	98	3	0.19
120412	05:32:32.53	37º 47.76′	112º 21.48′	5.5*	2.2	12	124	31	0.17
120412	08:59:54.53	39º 42.54′	111º 14.06′	7.0*	1.5	6	127	38	0.15
120412	09:54:32.39	37º 48.30′	112º 22.19′	7.3*	1.9	9	123	31	0.23
120412	10:23:47.10	37º 47.70′	112º 21.60′	4.0*	1.9	11	109	32	0.23
120412	12:13:31.79	37º 46.82′	112º 20.96′	0.0*	2.3W	18	111	33	0.24
120412	16:05:41.99	39º 26.04′	111º 12.80′	2.4*	1.4	10	116	15	0.12
120412	16:51:07.52	37º 47.42′	112º 21.31′	3.1*	2.0W	12	110	32	0.19
120412	18:07:27.88	37º 47.13′	112º 21.44′	0.2*	2.4W	20	110	32	0.26
120412	21:18:09.57	39º 25.39′	111º 12.20′	2.2*	1.6	12	149	14	0.15
120412	23:20:37.26	38º 59.33′	111º 21.05′	6.2*	1.6	10	98	24	0.25
120412	23:55:41.65	37º 47.27′	112º 20.62′	3.8*	1.6	12	112	32	0.18
120413	02:29:34.67	37º 47.16′	112º 20.25′	4.9*	1.6	13	112	32	0.29
120413	05:35:03.76	37º 48.52′	112º 22.87′	4.4*	1.7	10	121	31	0.15
120413	17:41:00.04	38º 12.31′	112º 41.04′	3.9*	1.1	9	106	30	0.19
120414	23:31:34.12	37º 47.08′	112º 20.76′	0.1*	2.1W	16	111	32	0.25
120415	02:47:32.48	38º 13.55′	112º 29.66′	1.2*	2.0W	18	113	34	0.33

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120415	04:44:10.75	39º 16.78′	111º 42.88′	18.1	1.3	12	123	12	0.13
120415	05:35:18.19	37º 46.56′	112º 20.21′	3.1*	1.9	13	127	33	0.28
120415	13:37:28.60	37º 47.35′	112º 20.58′	3.9*	1.8	12	107	31	0.15
120415	18:25:36.38	40º 52.75′	111º 36.09′	10.6	0.8	20	82	14	0.17
120415	18:31:22.73	40º 52.53′	111º 35.89′	12.6	0.9	10	81	14	0.12
120415	18:32:31.53	40º 52.59′	111º 36.07′	12.1	1.4	24	54	14	0.17
120415	18:45:48.77	40º 52.40′	111º 35.91′	10.9	0.7	20	58	14	0.18
120416	07:02:39.96	39º 00.22′	111º 22.26′	12.8	1.3	9	101	20	0.18
120416	16:24:45.00	38º 58.81′	111º 22.72′	5.6*	1.4	8	99	19	0.17
120416	20:00:16.12	39º 25.91′	111º 13.01′	5.3*	1.5	11	117	15	0.15
120416	20:44:25.65	39º 26.06′	111º 12.44′	3.3*	1.5	7	120	15	0.10
120417	04:19:35.15	37º 49.04′	112º 06.76′	7.8*	1.9	21	118	26	0.23
120417	10:45:58.57	40º 25.16′	111º 44.00′	8.5	-.2	9	118	5	0.16
120417	10:46:11.64	40º 25.70′	111º 43.57′	7.0	0.2	12	107	6	0.17
120417	10:46:25.12	39º 38.77′	110º 22.19′	1.6	0.6	6	138	2	0.23
120417	11:10:17.98	41º 59.51′	112º 28.32′	5.2*	0.7	14	121	14	0.12
120418	01:41:49.61	41º 45.04′	111º 33.06′	11.8	0.6	9	125	16	0.13
120418	02:58:00.66	39º 42.92′	111º 15.68′	8.3*	1.4	13	84	40	0.19
120418	04:06:38.65	37º 48.91′	112º 06.74′	9.9*	1.5	17	118	26	0.18
120418	06:40:50.33	38º 11.54′	112º 40.60′	5.2*	0.9	8	109	30	0.12
120418	08:18:15.32	39º 25.86′	111º 13.04′	5.2*	1.3	15	117	15	0.15
120418	09:52:27.91	37º 49.27′	112º 07.07′	6.3*	2.9W	27	118	25	0.35
120418	19:19:58.77	39º 25.94′	111º 12.57′	2.9*	1.2	11	115	15	0.18
120418	20:52:47.85	39º 25.30′	111º 12.73′	8.1	1.5	11	150	14	0.13
120419	03:20:25.31	39º 26.01′	111º 12.67′	5.2*	1.3	11	116	15	0.15
120419	05:33:23.53	39º 25.85′	111º 12.42′	4.9*	1.2	13	114	15	0.16
120419	08:57:48.02	39º 43.22′	111º 15.68′	7.0*	1.2	8	119	40	0.17
120419	09:07:06.91	39º 26.05′	111º 12.77′	6.0*	1.2	14	116	15	0.16
120419	09:51:22.60	39º 25.95′	111º 12.96′	6.8*	1.5	15	117	15	0.14
120419	18:07:05.94	39º 25.64′	111º 13.18′	6.0*	1.4W	14	117	15	0.12
120419	19:53:12.56	39º 26.10′	111º 12.37′	2.5*	1.2	11	114	15	0.12
120419	22:21:20.86	39º 26.06′	111º 12.10′	5.7*	1.1	11	113	15	0.17
120420	01:03:56.70	40º 41.54′	112º 02.33′	8.3	0.0	10	87	8	0.21
120420	02:53:38.81	37º 03.07′	113º 33.69′	1.4*	2.7W	11	190	29	0.20
120420	04:35:07.84	37º 47.44′	112º 20.96′	3.9*	1.9W	11	125	32	0.21
120420	10:39:10.81	37º 49.48′	112º 07.10′	7.1*	2.2W	22	118	25	0.27
120420	13:44:31.62	38º 59.54′	111º 22.63′	14.1	1.2W	8	95	24	0.07
120420	19:12:17.75	41º 35.98′	111º 42.00′	10.7	0.8	10	144	11	0.14
120420	21:00:17.57	39º 42.84′	111º 15.17′	7.4*	1.3	8	107	39	0.17
120421	09:39:27.62	41º 23.45′	111º 26.67′	4.1	0.9	16	131	9	0.20
120421	12:05:45.14	39º 25.86′	111º 11.95′	2.2*	1.2	12	61	15	0.24
120422	03:23:43.99	38º 25.07′	111º 39.90′	2.4*	1.7	11	78	41	0.21
120422	05:13:57.53	38º 25.63′	111º 39.66′	2.7*	1.3	11	77	41	0.17
120422	09:26:17.00	39º 19.96′	111º 15.76′	4.8	1.6	15	94	6	0.21
120422	09:39:25.09	39º 39.96′	111º 54.01′	5.9*	0.6	7	128	19	0.10

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120422	09:44:02.45	39º 40.01′	111º 55.76′	3.0*	1.1	10	126	20	0.27
120422	12:36:40.94	39º 43.03′	111º 15.77′	7.0*	1.2	8	118	40	0.16
120422	13:45:58.93	39º 40.32′	111º 54.54′	3.0*	1.3	9	121	20	0.25
120423	06:11:39.39	39º 42.94′	111º 16.27′	14.5*	1.3	8	144	41	0.14
120423	08:13:31.56	39º 26.07′	111º 12.73′	3.8*	0.9	11	116	15	0.14
120423	13:41:22.18	38º 59.23′	111º 22.65′	12.1	1.5	8	96	23	0.08
120423	18:41:27.18	38º 59.61′	111º 23.18′	12.1	1.5	8	95	24	0.19
120424	08:58:10.96	41º 46.19′	112º 24.63′	5.3*	1.5	17	76	12	0.21
120424	16:01:38.88	40º 27.82′	111º 53.14′	1.7	1.8W	10	96	6	0.18
120425	00:59:23.40	39º 25.88′	111º 12.89′	6.1*	1.4	11	116	15	0.11
120425	03:18:15.44	39º 25.70′	111º 12.93′	6.3*	1.6	13	111	15	0.14
120425	06:50:06.15	39º 25.70′	111º 13.18′	6.1*	1.2	13	117	15	0.17
120425	07:26:14.51	39º 25.75′	111º 13.06′	6.7*	1.3	12	117	15	0.12
120425	12:15:20.96	41º 46.77′	111º 39.86′	5.5*	0.6	13	76	21	0.13
120425	15:39:15.36	39º 25.85′	111º 12.73′	5.6*	1.2W	11	116	15	0.10
120425	20:55:34.07	39º 25.99′	111º 12.24′	2.9*	1.2	11	114	15	0.17
120426	00:47:26.71	40º 22.20′	111º 57.82′	1.8	1.5	6	247	10	0.19
120426	04:05:09.13	39º 26.11′	111º 12.75′	4.1*	1.1	9	117	15	0.10
120426	08:56:29.99	38º 11.07′	110º 23.56′	10.1*	1.6	8	136	41	0.06
120426	09:35:56.69	39º 42.71′	111º 16.21′	15.6*	1.3	10	94	41	0.18
120426	11:55:41.93	39º 42.62′	111º 16.31′	9.2*	1.6	13	85	41	0.11
120426	18:02:51.73	39º 25.65′	111º 13.85′	8.4	1.3	11	120	15	0.19
120426	22:34:22.45	38º 16.36′	112º 36.52′	5.2*	1.1	10	94	34	0.16
120426	23:20:27.68	37º 48.16′	112º 52.56′	3.9*	1.2	7	103	23	0.24
120427	02:45:11.36	39º 25.75′	111º 13.29′	4.5*	1.3	13	118	15	0.11
120427	04:43:12.88	39º 26.16′	111º 11.76′	0.2*	1.1	9	112	16	0.18
120427	04:49:39.62	39º 42.82′	111º 15.52′	6.9*	1.5	8	118	40	0.16
120428	04:51:34.52	38º 58.78′	111º 22.64′	0.6*	1.9W	17	96	23	0.15
120428	10:58:47.74	40º 49.57′	112º 00.42′	5.5	1.0	25	55	11	0.19
120428	22:09:03.95	37º 08.92′	111º 54.79′	5.1*	1.7	9	210	48	0.19
120429	10:12:42.81	38º 32.91′	112º 12.34′	1.5	1.1	16	74	5	0.20
120430	08:37:16.97	39º 35.18′	110º 20.94′	0.6	1.7	10	205	9	0.23
120430	20:34:13.87	40º 38.28′	111º 34.19′	2.2	0.5	12	112	8	0.12
120501	00:01:59.36	39º 42.14′	111º 04.52′	1.1*	1.2	6	183	13	0.11
120501	10:44:59.38	37º 00.63′	113º 50.28′	10.4	1.5	9	178	17	0.15
120501	19:09:20.61	38º 39.44′	112º 13.37′	2.4*	0.7	8	108	17	0.17
120502	09:35:27.24	41º 39.71′	111º 40.55′	7.3	0.6	14	75	11	0.15
120502	11:29:55.16	39º 43.10′	111º 15.43′	1.3*	1.5W	15	105	39	0.18
120502	12:01:49.27	38º 37.06′	112º 14.74′	3.6*	1.0	11	143	13	0.20
120502	13:10:07.46	41º 26.42′	110º 47.20′	22.0*	3.1W	24	99	58	0.25
120502	16:11:00.65	41º 54.47′	112º 34.68′	7.7*	0.9	16	141	21	0.14
120502	16:11:41.87	41º 54.73′	112º 34.75′	6.4*	0.1	7	143	21	0.11
120502	16:37:12.19	41º 53.96′	112º 34.44′	7.9*	2.2W	25	138	21	0.17
120502	17:01:28.87	41º 54.01′	112º 34.56′	7.9*	1.4	21	139	21	0.14
120502	19:28:05.07	39º 26.06′	111º 12.66′	4.1*	1.1	9	115	15	0.09

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120503	00:51:47.59	39º 26.09′	111º 12.57′	6.2*	1.0	14	115	15	0.17
120503	08:26:00.65	39º 24.99′	111º 05.36′	6.6	1.3	12	84	11	0.09
120503	14:40:39.47	37º 46.67′	113º 15.26′	2.2*	1.2	10	161	16	0.23
120504	21:34:45.15	37º 50.70′	112º 23.86′	1.2*	1.9W	19	100	29	0.27
120505	07:19:11.13	39º 37.80′	110º 23.17′	0.3	1.1	5	165	4	0.25
120505	22:44:57.36	41º 52.18′	112º 22.47′	11.9	0.8	16	86	8	0.21
120505	22:55:17.26	41º 51.42′	112º 22.47′	8.1	0.5	13	85	9	0.16
120505	23:03:37.54	41º 52.32′	112º 22.51′	10.0	0.6	17	86	8	0.20
120505	23:05:49.49	41º 51.69′	112º 22.39′	8.8	0.6	16	84	9	0.13
120506	14:08:59.42	39º 50.34′	111º 07.24′	10.6*	0.8	13	158	23	0.19
120506	22:08:23.75	39º 42.97′	111º 15.33′	6.9*	1.3	10	118	39	0.18
120507	06:26:33.48	38º 17.63′	112º 37.03′	0.1*	2.0W	14	83	32	0.14
120508	02:19:11.29	39º 25.99′	111º 12.82′	2.5*	1.3	12	116	15	0.12
120508	08:13:53.35	36º 59.90′	112º 55.68′	17.1	1.1	13	135	10	0.29
120508	21:19:06.53	39º 38.31′	110º 23.12′	1.6	0.5	6	157	3	0.34
120509	00:35:38.40	39º 25.95′	111º 12.62′	6.0*	1.3	12	115	15	0.11
120509	06:22:14.84	39º 37.17′	110º 21.90′	1.6	0.9	5	194	4	0.36
120509	06:22:25.30	39º 26.19′	111º 12.40′	6.8*	1.5	10	115	16	0.14
120509	18:50:06.09	40º 26.53′	113º 37.70′	5.3*	1.1	9	220	73	0.17
120509	19:21:51.34	40º 26.34′	113º 35.82′	5.0*	1.2	9	217	72	0.18
120509	19:51:59.63	40º 25.50′	113º 33.23′	5.0*	1.4	8	213	68	0.14
120509	23:48:11.39	38º 27.50′	112º 00.80′	5.9*	1.1	14	88	15	0.15
120510	04:43:40.53	38º 27.64′	112º 00.29′	3.5*	0.8	14	80	16	0.21
120510	04:58:57.38	38º 27.93′	112º 00.47′	5.1*	1.0	14	80	16	0.18
120510	10:13:54.31	38º 28.36′	112º 00.47′	4.2*	1.5	21	77	15	0.24
120510	12:50:48.12	38º 28.27′	112º 00.37′	0.6*	1.3	17	90	16	0.25
120510	17:02:27.94	40º 04.25′	113º 25.03′	4.2*	1.4	5	199	39	0.21
120510	18:04:11.40	38º 00.34′	111º 05.65′	0.2*	2.0W	25	107	27	0.34
120510	21:30:19.43	38º 28.48′	111º 59.71′	1.7*	1.4	11	90	16	0.27
120510	21:54:09.07	37º 24.05′	112º 53.60′	0.8*	1.6	9	109	21	0.20
120511	11:31:42.38	39º 25.86′	111º 13.37′	6.9*	1.3	14	118	15	0.18
120511	15:19:44.35	38º 45.28′	111º 29.15′	1.4	1.6	20	79	6	0.17
120511	16:47:38.10	38º 45.50′	111º 29.39′	4.9	1.0	9	99	6	0.09
120512	06:05:39.78	39º 38.03′	110º 22.61′	1.6	0.3	6	174	3	0.39
120512	06:19:21.52	39º 42.44′	111º 14.54′	6.9*	1.4	9	127	38	0.11
120513	03:47:24.03	38º 58.91′	111º 22.58′	4.6*	1.4	13	81	19	0.20
120513	12:56:45.53	38º 00.93′	111º 05.77′	3.0*	1.8W	19	133	26	0.26
120514	04:24:48.95	39º 25.62′	111º 12.75′	5.7*	1.6	15	69	15	0.11
120514	06:03:40.29	39º 55.15′	111º 47.45′	10.0	***	5	132	4	0.07
120514	11:19:33.00	39º 25.85′	111º 12.70′	3.5*	1.2	13	116	15	0.15
120514	15:04:08.80	39º 25.63′	111º 13.04′	5.2*	0.8	12	116	15	0.16
120515	04:09:41.77	39º 25.91′	111º 12.81′	7.1*	0.9	10	116	15	0.18
120515	06:09:23.71	39º 26.02′	111º 12.64′	5.0*	1.1	13	115	15	0.14
120515	14:53:19.78	38º 05.44′	112º 28.18′	3.9*	1.3	13	67	26	0.20
120515	15:13:41.93	40º 25.51′	112º 32.09′	9.0*	1.4	16	100	26	0.14

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120516	21:01:52.74	41° 16.51′	111° 43.28′	14.7	1.7	20	83	21	0.13
120517	00:35:27.48	39° 25.37′	111° 12.42′	6.1*	1.4	17	51	14	0.18
120517	01:56:10.63	41° 19.03′	112° 13.59′	2.5*	1.3	20	61	17	0.14
120517	03:56:55.03	39° 26.74′	112° 13.69′	10.5	0.8	13	138	9	0.21
120517	12:30:02.19	38° 00.53′	111° 05.70′	1.1*	1.8	15	126	27	0.23
120517	13:20:25.90	41° 16.29′	111° 44.08′	12.9*	0.3	6	157	26	0.08
120517	14:24:06.38	41° 16.26′	111° 43.33′	12.8	1.1	21	83	21	0.14
120517	14:27:45.03	38° 00.52′	111° 06.01′	9.2*	1.4W	15	126	27	0.19
120517	16:34:15.90	38° 00.82′	111° 05.75′	2.0*	2.1W	19	125	27	0.23
120517	16:47:13.59	38° 00.66′	111° 05.65′	0.1*	1.8W	18	125	27	0.26
120517	17:12:13.07	39° 26.23′	111° 12.27′	5.7*	1.2	10	114	16	0.17
120517	17:12:35.52	39° 25.99′	111° 12.17′	8.7	0.9	7	114	15	0.20
120517	17:40:19.43	41° 16.33′	111° 42.91′	10.0*	0.6	16	85	27	0.15
120517	18:28:03.69	41° 16.42′	111° 43.04′	15.7	0.6	11	148	27	0.13
120517	20:26:37.93	41° 16.01′	111° 42.43′	12.1*	0.7	12	151	27	0.13
120518	00:58:24.00	40° 19.44′	111° 23.31′	1.9*	1.3	18	83	15	0.15
120518	01:46:36.97	41° 16.22′	111° 43.29′	11.9	1.0	21	83	21	0.16
120518	02:10:37.46	38° 00.40′	111° 05.78′	7.5*	1.9W	15	126	27	0.22
120518	06:21:07.72	39° 26.16′	111° 12.11′	2.5*	1.5	13	107	16	0.19
120519	06:09:52.15	38° 00.57′	111° 05.66′	10.8*	2.0W	16	126	27	0.17
120519	08:22:47.03	38° 00.73′	111° 05.95′	4.4*	2.3W	18	125	26	0.25
120519	09:55:50.49	41° 35.36′	112° 49.49′	7.3*	1.4	21	210	22	0.15
120519	10:38:12.26	41° 16.52′	111° 43.48′	8.9*	0.5	15	84	27	0.21
120519	14:35:20.49	39° 24.52′	111° 52.68′	1.1*	1.4	20	53	12	0.22
120519	20:35:37.13	39° 41.87′	110° 41.75′	2.0	1.6	8	133	10	0.14
120521	08:30:46.64	38° 14.01′	112° 19.14′	2.5*	1.2	22	48	24	0.30
120521	09:50:05.53	38° 00.56′	111° 05.73′	0.3*	1.7	15	126	27	0.25
120521	13:59:53.10	39° 42.65′	111° 15.72′	8.6*	1.7	14	82	40	0.17
120521	22:32:54.08	39° 26.31′	111° 12.04′	3.3*	1.1	9	113	16	0.14
120522	01:49:38.31	39° 26.20′	111° 12.22′	2.4*	1.0	10	114	16	0.15
120522	07:06:45.70	39° 25.94′	111° 12.67′	4.1*	1.7W	20	47	15	0.16
120522	23:03:50.50	39° 26.48′	111° 10.06′	6.0*	1.1	6	164	16	0.16
120523	01:25:03.42	39° 40.80′	110° 47.24′	6.6*	1.4	6	191	15	0.06
120523	02:33:25.44	39° 43.22′	111° 15.34′	7.0*	1.5	10	107	39	0.14
120524	00:23:12.18	39° 24.84′	111° 06.39′	2.1*	1.7	9	135	11	0.10
120524	04:19:17.86	39° 26.05′	111° 11.94′	0.0*	1.5	9	112	15	0.10
120524	23:34:38.58	38° 13.29′	112° 19.57′	2.0*	1.9	16	56	24	0.20
120525	02:35:33.71	39° 25.95′	111° 12.41′	5.6*	1.6	11	115	17	0.10
120526	20:24:22.62	38° 00.75′	111° 05.61′	11.2*	2.2W	13	106	27	0.23
120527	17:14:18.84	37° 39.41′	114° 12.84′	1.1*	1.1	9	132	62	0.25
120528	15:33:03.36	39° 37.97′	110° 23.31′	0.1	1.6	11	159	3	0.19
120528	19:26:33.62	39° 36.23′	110° 21.17′	1.7	0.8	5	204	5	0.28
120529	06:52:23.02	39° 37.84′	110° 23.03′	0.0	1.4	16	167	3	0.18
120529	09:47:49.08	39° 37.88′	110° 23.25′	0.1	1.6	14	161	3	0.22
120529	13:50:25.82	40° 44.09′	111° 06.41′	8.4	0.8	8	171	12	0.10

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120529	14:47:32.71	39º 55.90′	111º 56.76′	2.5*	1.4	18	62	11	0.27
120529	14:48:55.72	39º 38.16′	110º 21.80′	1.6	0.8	7	196	3	0.38
120530	01:43:34.33	38º 58.82′	111º 22.12′	11.5	1.1	7	100	18	0.11
120530	19:46:00.97	39º 25.84′	111º 12.57′	5.2*	1.7	14	114	15	0.13
120531	05:27:14.98	39º 30.48′	110º 18.85′	0.2*	1.7W	12	216	14	0.19
120531	20:19:51.54	40º 33.87′	111º 16.51′	16.4	0.7	6	265	12	0.19
120531	23:31:56.21	37º 37.55′	113º 22.92′	6.4	1.1	5	176	9	0.06
120601	13:40:08.40	38º 13.93′	112º 18.75′	3.9*	0.6	9	72	24	0.23
120601	23:26:30.09	39º 42.11′	111º 15.96′	0.3	1.7	12	114	9	0.26
120602	00:30:50.49	39º 42.65′	111º 16.13′	5.4*	1.5	12	117	40	0.14
120602	05:38:18.62	39º 24.93′	111º 05.29′	2.7*	2.1W	22	47	11	0.13
120602	06:46:24.89	39º 37.99′	110º 22.23′	1.6	0.9	8	185	3	0.37
120602	06:46:20.63	38º 07.47′	112º 28.36′	7.3*	1.2	9	71	27	0.16
120602	19:15:56.06	39º 30.50′	110º 20.94′	3.5*	1.3	6	165	13	0.11
120603	01:16:25.81	39º 42.81′	111º 15.42′	7.8*	1.6	13	84	39	0.12
120603	04:00:21.12	38º 17.41′	112º 34.83′	1.6*	0.9	9	112	34	0.25
120603	11:04:19.39	36º 48.44′	112º 55.88′	9.5*	1.3	10	167	25	0.19
120604	11:44:22.40	37º 32.37′	112º 17.63′	6.1	1.0	17	108	11	0.24
120604	15:06:56.42	39º 25.95′	111º 13.22′	5.6*	1.6	13	118	15	0.11
120604	17:46:24.37	39º 24.70′	111º 05.86′	2.4*	1.4	9	98	11	0.13
120605	03:07:27.04	41º 17.19′	111º 39.04′	10.1*	1.0	23	101	23	0.16
120605	14:30:45.72	36º 53.29′	112º 57.21′	23.8	1.5	12	158	19	0.27
120605	16:01:19.57	39º 37.74′	110º 22.78′	1.7	1.6	7	173	3	0.54
120607	18:13:03.79	38º 18.03′	112º 35.38′	0.9*	1.7	14	81	33	0.27
120607	19:20:03.47	37º 37.48′	113º 24.65′	2.3	0.7	6	199	9	0.14
120608	01:35:18.49	38º 44.41′	111º 32.99′	2.3*	0.9	5	106	12	0.12
120609	03:35:55.19	39º 25.33′	111º 12.11′	2.8*	1.4	6	193	14	0.12
120609	09:48:23.69	36º 56.83′	113º 00.37′	17.9	1.6	10	212	18	0.16
120609	17:58:40.44	40º 39.37′	111º 18.80′	2.9	0.9	7	164	8	0.24
120610	11:59:23.32	38º 58.79′	111º 22.82′	9.4*	1.2	12	96	23	0.15
120610	15:14:53.25	39º 42.86′	111º 15.82′	2.0	1.7	15	84	10	0.20
120610	16:47:55.01	38º 59.42′	111º 21.61′	13.6	1.3	9	97	24	0.15
120612	16:26:57.01	39º 00.22′	111º 21.64′	12.9	1.5	7	95	26	0.02
120612	23:31:04.82	40º 40.14′	111º 19.39′	2.4	1.1	7	182	8	0.23
120614	19:23:48.92	39º 42.27′	111º 15.07′	1.7	1.7	10	72	8	0.26
120614	20:28:35.72	40º 39.81′	111º 19.95′	7.8	1.1	7	176	7	0.21
120615	03:03:57.80	39º 00.82′	111º 27.68′	6.9*	1.4	6	147	25	0.22
120615	16:11:44.05	38º 08.42′	109º 06.98′	2.9*	1.5	5	186	13	0.15
120615	16:43:05.51	37º 00.24′	113º 30.82′	1.3*	1.7	9	174	24	0.17
120615	17:53:35.10	39º 43.12′	111º 15.77′	14.5*	1.5	9	108	40	0.11
120616	00:32:13.67	39º 38.04′	110º 22.64′	1.6	1.3	6	173	3	0.38
120616	01:37:10.80	36º 49.98′	113º 00.26′	21.8	1.2	13	168	26	0.14
120616	06:19:39.08	37º 13.84′	112º 48.33′	10.1*	0.1	8	68	24	0.21
120616	12:19:04.04	41º 55.51′	112º 33.06′	6.8*	1.7	22	137	19	0.17
120616	14:39:43.94	38º 46.83′	111º 36.63′	16.4	1.2	11	57	16	0.16

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120616	16:34:08.44	37° 26.10′	113° 09.53′	9.9	0.9	8	117	9	0.11
120616	17:05:19.17	39° 37.92′	110° 22.32′	1.6	1.3	7	183	3	0.39
120616	17:44:47.51	39° 38.08′	110° 22.57′	1.6	0.6	6	174	3	0.33
120616	18:30:16.96	40° 39.42′	111° 19.78′	1.8	1.4	10	89	7	0.24
120616	23:15:12.24	39° 05.62′	110° 28.32′	11.2	1.4	22	107	5	0.30
120617	02:51:44.97	37° 21.65′	114° 10.22′	0.9*	1.3	8	235	32	0.21
120617	05:02:13.50	39° 42.17′	111° 15.36′	1.8	1.6	12	84	8	0.21
120617	16:07:50.72	36° 56.04′	113° 31.10′	17.7	0.9	7	222	26	0.07
120617	20:03:06.55	39° 37.38′	110° 22.25′	1.7	1.3	5	186	3	0.32
120618	10:36:29.36	37° 52.53′	112° 29.00′	2.9*	1.0	13	110	32	0.22
120618	14:19:59.12	39° 37.84′	110° 23.23′	0.1	1.7	10	163	3	0.17
120618	16:03:43.05	38° 08.65′	109° 05.85′	1.4*	1.8	7	184	11	0.20
120618	16:45:02.35	37° 38.41′	113° 21.98′	3.9	1.5	5	160	10	0.47
120619	00:00:58.97	40° 15.83′	111° 52.58′	1.8	1.0	7	174	7	0.23
120619	05:30:01.69	37° 34.98′	113° 07.91′	10.1	1.4	17	50	4	0.22
120619	08:39:33.42	41° 48.11′	111° 46.54′	1.7*	1.4	26	67	26	0.21
120619	18:48:31.87	39° 36.79′	112° 11.41′	1.0*	2.3W	24	86	26	0.28
120619	22:08:11.03	37° 27.86′	113° 05.42′	3.9*	1.1	6	139	12	0.35
120620	07:56:30.26	37° 00.45′	113° 49.60′	6.2*	1.2	9	216	18	0.15
120620	08:10:21.18	37° 00.71′	113° 49.92′	9.2	1.3	9	217	17	0.16
120620	09:20:32.65	37° 41.57′	112° 59.34′	5.2*	1.1	6	177	14	0.36
120620	16:08:13.08	38° 08.03′	109° 06.24′	2.9*	1.8	7	190	12	0.14
120620	21:37:42.53	39° 26.11′	111° 12.82′	2.5*	1.2	10	117	15	0.14
120621	02:13:01.11	40° 59.05′	110° 56.45′	18.6	1.0	14	216	11	0.15
120621	03:50:31.29	39° 26.09′	111° 12.78′	5.8*	1.3	10	117	15	0.10
120622	04:59:57.22	38° 00.50′	111° 05.83′	3.2*	1.8W	16	126	27	0.23
120622	05:37:15.20	38° 00.81′	111° 05.78′	0.2*	3.0W	27	125	27	0.27
120622	05:39:38.02	37° 42.82′	110° 35.12′	1.2*	2.1W	12	245	29	0.25
120622	06:00:38.34	38° 00.19′	111° 05.19′	12.6*	1.5	8	127	28	0.24
120622	06:13:06.50	38° 00.68′	111° 05.23′	11.8*	1.5	6	125	27	0.05
120622	13:55:24.68	37° 48.93′	113° 05.66′	2.5*	1.0	12	125	25	0.15
120622	20:15:42.83	36° 59.70′	113° 29.62′	16.6	1.1	9	174	22	0.24
120623	00:12:39.47	39° 09.29′	111° 59.37′	12.3	1.1	9	115	23	0.08
120623	02:26:02.83	37° 01.23′	113° 29.04′	8.1*	2.9W	12	168	42	0.23
120623	02:56:27.96	39° 41.29′	111° 14.25′	1.3	1.6	11	112	6	0.33
120623	05:34:53.33	39° 37.89′	110° 23.05′	1.7	1.4	8	166	3	0.46
120623	05:39:53.95	38° 12.40′	112° 17.88′	2.7*	1.2	12	97	36	0.22
120624	05:31:10.46	38° 00.38′	112° 52.23′	7.6*	2.1W	16	60	16	0.19
120624	16:01:53.92	38° 58.98′	111° 22.55′	15.7	1.5	6	124	23	0.10
120624	17:36:07.84	37° 44.79′	110° 40.35′	6.9*	1.8	10	172	22	0.19
120625	15:51:06.88	39° 30.57′	111° 05.32′	6.7*	1.4	7	122	18	0.08
120625	16:42:42.17	38° 07.71′	109° 06.68′	3.9*	1.6	5	192	13	0.22
120626	08:14:27.71	39° 37.89′	110° 23.02′	0.0	0.8	9	100	3	0.13
120626	15:53:19.63	38° 11.71′	112° 35.51′	3.6*	0.3	9	138	37	0.13
120626	16:45:30.86	39° 26.21′	111° 12.82′	3.3*	1.5	6	119	16	0.09

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2012

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
120627	23:34:31.06	41º 08.45′	112º 05.59′	3.0*	0.2	7	164	18	0.19
120628	17:05:51.99	39º 26.08′	111º 12.25′	3.0*	1.5	8	114	15	0.18
120628	17:15:20.73	39º 26.02′	111º 12.77′	3.8*	1.4	12	116	15	0.13
120628	18:57:02.34	39º 37.82′	110º 22.95′	0.0	1.2	7	101	3	0.20
120629	02:03:52.10	37º 09.97′	112º 47.18′	11.3	1.2	12	63	17	0.18
120629	02:52:15.87	39º 25.90′	111º 13.17′	3.9*	1.1	14	117	15	0.14
120629	04:07:37.13	39º 25.95′	111º 12.99′	5.5*	1.6	17	117	15	0.13
120629	04:13:24.42	39º 02.94′	111º 31.42′	10.6	1.3	6	102	18	0.09
120629	07:50:09.22	41º 55.58′	112º 25.00′	5.8	0.9	15	100	8	0.20
120629	16:34:41.29	38º 07.46′	109º 06.11′	3.3*	1.7	7	195	12	0.23
120629	23:06:46.82	41º 45.11′	112º 22.74′	9.3	0.6	13	101	11	0.17
120630	21:23:54.47	37º 37.69′	113º 01.81′	6.6	1.7	18	49	6	0.17
120630	21:28:49.56	37º 37.36′	113º 01.16′	2.9	1.5	14	56	7	0.22
120630	22:22:03.48	37º 37.64′	113º 01.63′	7.2	0.6	9	168	6	0.06

number of earthquakes = 374
* 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
June 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
7229	City Maintenance Shop Santaquin, UT	7229	HN[ZEN]	3	NP	39° 58.35′	111° 47.58′	1520	EpiSensor	Etna	Digital	NSMP, ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
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] EN[ZEN]	3 3	UU	39° 37.67′	110° 14.56′	1687	Trillium 240 EpiSensor	Q330	Digital	Utah

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
BSS	Butlerville Substation Salt Lake City, UT	BSS	EN[ZEN]	3	UU	40° 37.45′	111° 49.37′	1411	EpiSensor	K2	Digital	ANSS
BTU	Barney Top, UT	BTU	EHZ	1	UU	37° 45.34′	111° 52.46′	3235	S13	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] EN[ZEN]	3 3	UU	37° 33.04′	113° 21.77′	2124	STS-2 Applied Mems	ANSS-130	Digital	USGS
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 EN[ZEN]	1 3	UU	38° 17.50′	109° 15.64′	2035	L4C Episensor	Basalt	Digital	Utah, USGS
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] EN[ZEN]	3 3	UU	38° 55.06′	111° 10.30′	1912	STS-2 EpiSensor	Q330	Digital	Utah
CWR	Coldwater Ranch, Paradise, UT	CWR	EN[ZEN]	3	UU	41° 34.90′	111° 46.89′	1837	Applied Mems	ANSS-130	Digital	ANSS
CWU	Camp Williams, UT	CWU	EHZ	1	UU	40° 26.75′	112° 06.13′	1945	L4C	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

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

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

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

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

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

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

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

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

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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
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: 787 data channels from 256 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 APRIL 1-JUNE 30, 2012

June 26	Station LMU (EN[ZEN]) closed due to fire damage.