EARTHQUAKE ACTIVITY IN THE UTAH REGION

Preliminary Epicenters

April 1 – June 30, 2010

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

August 27, 2010

Foreword and Data Explanation

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

The earthquake listing in Table 2 is estimated to be systematically complete above magnitude 1.5 in north-central Utah, above magnitude 2.0 in central and southwestern Utah, and above magnitude 3.0 in southeastern Utah and the eastern Uinta Basin. *These data are preliminary—both the locations and magnitudes are subject to revision. The catalog may include some artificial seismic events not yet identified.*

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

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was 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, 2010

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During the three-month period April 1 through June 30, 2010, the University of Utah Seismograph Stations (UUSS) located 318 earthquakes within the Utah region (Figure 1). The total includes nine earthquakes 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 2010 that were either felt in the Utah region or for which a ShakeMap was produced, or both). Additional information on earthquakes within the Utah region is available from the University of Utah Seismograph Stations.

Online Information

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

ShakeMaps—computer maps of the ground shaking produced by an earthquake—are automatically produced by UUSS for earthquakes of magnitude 3 and larger within the Wasatch Front urban area. On November 30, 2005, UUSS extended its capability for producing ShakeMaps to the entire Utah region for shocks of magnitude 4.0 or larger; in the greater Wasatch Front area, outside the urban corridor, the threshold is magnitude 3.5. Since November 26, 2007 UUSS lowered the magnitude threshold for the Utah region to magnitude 3.5. The ShakeMaps are accessible on the UUSS Web page at *http://www.seis.utah.edu/shake*. Earthquakes during 2009 for which ShakeMaps are available are indicated in Table 1.

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

Earthquakes of Magnitude 3.0 or Larger

M_L 3.0	April 9	14:58 MDT	14 mi SW of Tropic, UT
M_L 3.9	April 14	12:58 MDT	32 mi NE of Escalante, UT (felt, CIIM intensity map, ShakeMap , see Table 1)
M_L 3.1	April 14	16:39 MDT	32 mi NE of Escalante, UT
M_L 3.2	April 15	04:48 MDT	33 mi NE of Escalante, UT (felt, CIIM intensity map, see Table 1)

M_L 4.9	April 15	17:59 MDT	5 mi NE of Randolph, UT (felt, CIIM intensity map, ShakeMap , see Table 1)
M_L 3.2	April 28	11:40 MDT	32 mi NE of Escalante, UT (felt, CIIM intensity map, see Table 1)
M_L 3.6	May 2	09:00 MDT	32 mi NE of Escalante, UT (felt, CIIM intensity map, ShakeMap , see Table 1)
M_L 3.1	May 27	09:00 MDT	5 mi NE of Randolph, UT (ShakeMap , see Table 1)
M_L 3.0	June 11	05:06 MDT	5 mi NE of Randolph, UT (ShakeMap , see Table 1)

Other Notable Seismicity

During the report period, there were two notable spatial clusters of natural earthquake activity (labeled A and B 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 16 earthquakes ($0.2 \leq M \leq 2.7$) occurred about two miles WSW of Bluffdale, UT. Three of these events, including a magnitude 2.7 shock, occurred on June 10.

B. A cluster of 30 earthquakes ($0.9 \leq M \leq 3.9$) occurred about twenty nine miles ENE of Loa, UT. Eighteen of these events, including a magnitude 3.9 shock, occurred between April 14 and April 19.

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 133 located shocks ($0.1 \leq M \leq 2.6$) that occurred throughout the report period.

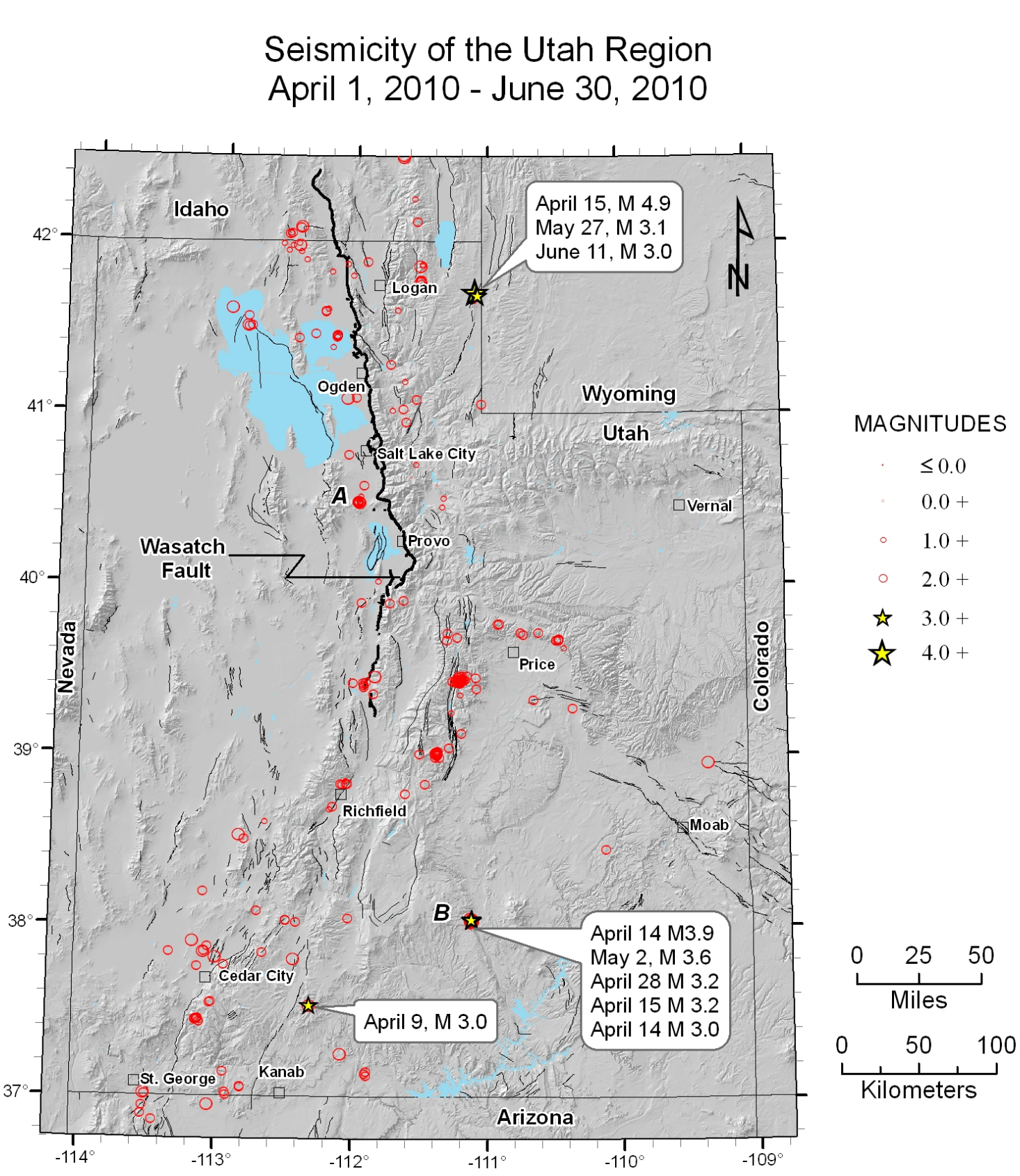

Figure 1. Earthquake epicenters, located by the University of Utah Seismograph Stations, superposed on a map of Quaternary (geologically young) faults compiled by the Utah Geological Survey. The Wasatch fault is shown in bold. Earthquakes of magnitude 3.0 and larger are labeled by local date and size.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

Table 1

EARTHQUAKES FELT AND/OR GENERATING A SHAKEMAP IN THE UTAH REGION
January 1, 2010 to June 30, 2010

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 04	09:24 MST 16:24 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Cedar City (?), UT and (II) at New Harmony, La Verkin, Central, St. George, Monroe (?), UT, Las Vegas (?), NV and Sedona (?), AZ.	37º 35.92′	113º 02.33′	M_L 4.1
January 04 January 05	21:55 MST 04:55 UTC	Utah. *CIIM*. *ShakeMap*. Felt (II) at Cedar City and Hurricane, UT.	37º 35.58′	113º 02.77′	M_L 3.3
January 05	01:08 MST 08:08 UTC	Utah. *CIIM*. *ShakeMap*. Felt (IV) at Woods Cross (?), UT, (III) at Saratoga Springs, Lehi and Herriman, UT and (II) at Eagle Mountain, American Fork, Draper, Pleasant Grove, Lindon, Orem, Alpine, Provo, Salt Lake City and Ogden (?), UT.	40º 21.68′	111º 54.65′	M_L 2.9
January 23	08:48 MST 15:48 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Fort Duchesne (?), UT and (II) at Payson, Santaquin, Lehi and Magna (?), UT.	39º 56.82′	111º 53.45′	M_L 3.0
February 12	15:37 MST 22:37 UTC	Utah. *CIIM*. *ShakeMap*. Felt (II) at Monroe (?), UT and Las Vegas (?), NV.	37º 05.51′	112º 53.54′	M_L 3.0
April 14	12:58 MDT 18:58 UTC	Utah. *CIIM*. *ShakeMap*. Felt (IV) at Torrey, UT, (III) at Boulder, Salt Lake City (?), Ogden (?), UT and (II) at Teasdale, Hanksville, Saint George (?), Eagle Mountain (?), Herriman (?), Bloomfeld (?), NM and Las Vegas (?), NV..	38º 02.02′	111º 06.76′	M_L 3.9

April 15	04:48 MDT 10:48 UTC	Utah. *CIIM*. Felt (III) at Salt Lake City (?), Logan (?), UT, and (II) at Torrey, Draper (?), Sandy (?), Park City (?), Kaysville (?), Ogden (?), Lewinston (?), UT and Malad City (?), ID.	38º 02.62′	111º 06.78′	M_L 3.2
April 15	17:59 MDT 23:59 UTC	Utah. *CIIM*. *ShakeMap*. Felt (VI) at Randolph, UT, (IV) at Woodruff, Dutch John, UT and Cokeville, WY, (III) at Garden City, Logan, Providence, Franklin, Lewinston, Trenton, Coalville, Cornish, Fielding, Salt Lake City, Pleasant Grove, Whiterocks, Payson, UT, Colorado Springs (?), CO and Puyallup (?), WA and (II) at Fish Haven, Hyde Park, Hyrum, Richmond, Huntsville, Paradise, Smithfield, Wellsville, Eden, Mendon, Clarkston, Collinston, Henefer, Ogden, Brigham City, Morgan, Garland, Layton, Willard, Hill AFB, Tremonton, Roy, Farmington, Kaysville, Clearfield, Hooper, Syracuse, Centerville, Bountiful, Park City, Woods Cross, Magna, Midway, Midvale, Sandy, West Jordan, South Jordan, Draper, Riverton, American Fork, Bingham Canyon, Herriman, Provo, Lehi, Orem, Grantsville, Tooele, Eagle Mountain, Lapoint, Santaquin, Saint George, UT, Fish Haven, Paris, Montpelier, Preston, Weston, Malad City, Arimo, McCammon, Inkom, Pocatello, Blackfoot, Boise (?), ID, Evanston,	41º 42.20′	111º 05.65′	M_L 4.9

		Kemmerer, Big Piney, Rock Springs, Jackson, Lander, WY, Evergreen (?), Milliken {?}, Brighton (?), Colorado Springs (?), CO, Mesquite (?), NV, Irvine (?), Huntington Beach (?), CA, , Des Moines (?), IA.			
April 20	02:57 MDT 08:57 UTC	Utah. *ShakeMap.*	37º 54.15′	113º 10.68′	M_L 2.9
April 28	11:40 MDT 17:40 UTC	Utah. *CIIM*. Felt (II) at Boulder, UT.	38º 02.09′	111º 06.88′	M_L 3.2
May 2	09:00 MDT 15:00 UTC	Utah. *CIIM*. *ShakeMap*. Felt (III) at Hanksville, UT and (II) at Boulder, Teasdale, Torrey, Loa, Roy (?), UT.	38º 02.24′	111º 06.81′	M_L 3.6
May 27	00:16 MDT 06:16 UTC	Utah. *ShakeMap.*	41º 41.33′	111º 05.23′	M_L 3.1
June 10	10:58 MDT 16:58 UTC	Utah. *CIIM*. Felt (IV) at Midvale, UT,(III) at Lehi, Salt Lake City, UT and (II) at Riverton, Herriman, South Jordan, Draper, Sandy, Saratoga Springs, Kaysville, Logan, UT and Solana Beach (?), CA.	40º 28.42′	111º 58.99′	M_L 2.7
June 11	05:06 MDT 11:06 UTC	Utah. *ShakeMap.*	41º 41.00′	111º 04.54′	M_L 3.0

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

‡ *CIIM* indicates the availability of a Community Internet Intensity Map (*http://pasadena.wr.usgs.gov/shake/imw /archives.html*), compiled by the U.S. Geological Survey (USGS); *ShakeMap* indicates the availability of computer-generated maps of ground-shaking (*http://www.seis.utah.edu/shake/archive*), produced by the University of Utah Seismograph Stations (UUSS). Roman numerals correspond to the Modified Mercalli intensity scale. Unless otherwise indicated, felt information is from the USGS′s (1) CIIM reports and/or (2) PDE Monthly (or) Weekly Listing Files (*http://neic.usgs.gov/neis/data_services/ftp_files.html*). For a complete list of reported information see the *CIIM* website.

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

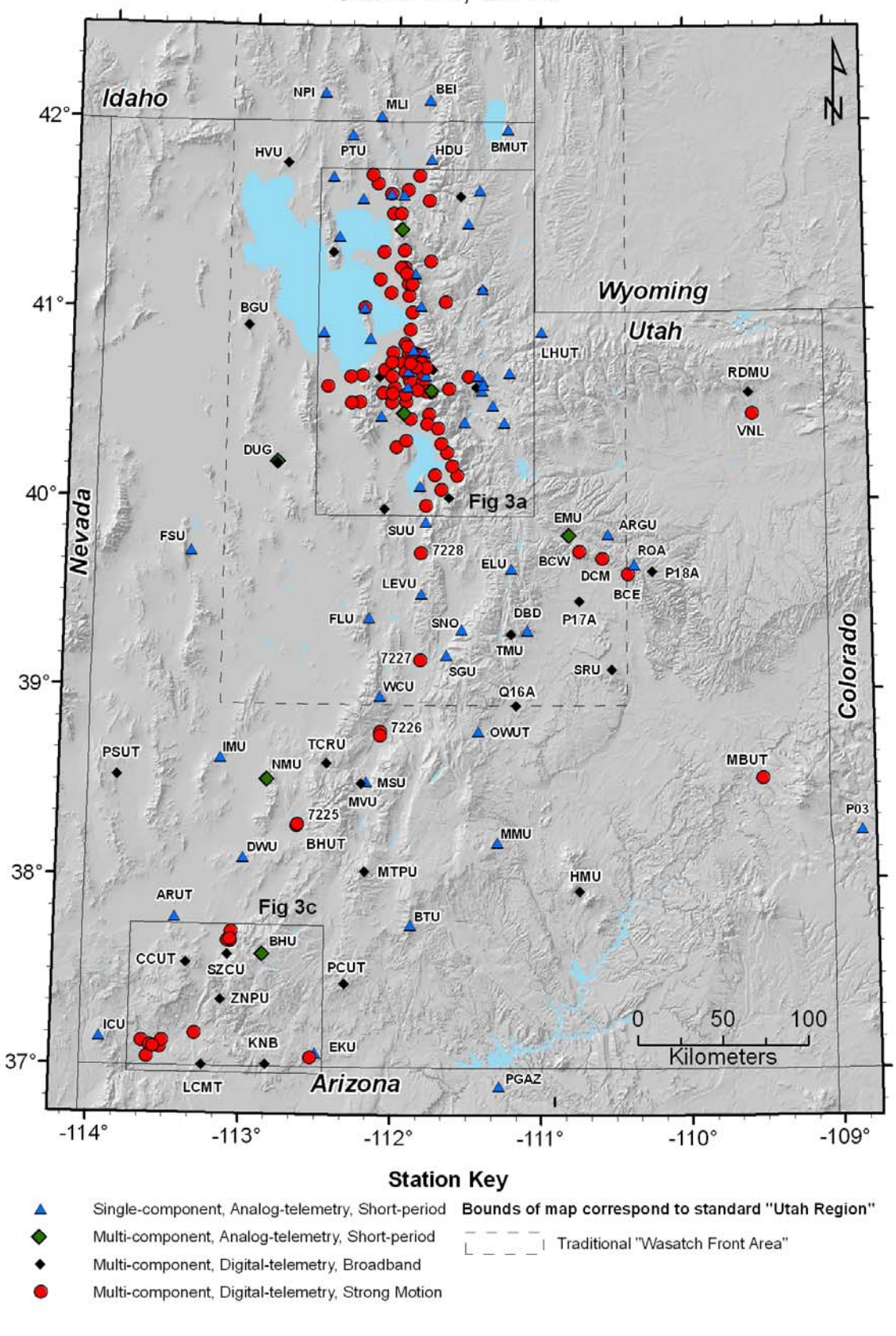
Utah Regional/Urban Seismic Network
June 30, 2010
Idaho
Wyoming
Utah
Nevada
Colorado
Arizona
Fig 3a
Fig 3c
NPI
BEI
MLI
HVU
PTU
HDU
BMUT
BGU
LHUT
RDMU
VNL
DUG
FSU
SUU
7228
EMU
ARGU
ROA
BCW
ELU
DCM
P18A
BCE
LEVU
FLU
SNO
DBD
P17A
TMU
7227
SGU
SRU
WCU
Q16A
7226
OWUT
PSUT
IMU
TCRU
NMU
MSU
MVU
MBUT
P03
7225
DWU
BHUT
MMU
MTPU
HMU
ARUT
BTU
BHU
CCUT
SZCU
PCUT
ZNPU
ICU
KNB
EKU
LCMT
PGAZ
0
50
100
Kilometers
42°
41°
40°
39°
38°
37°
-114°
-113°
-112°
-111°
-110°
-109°
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"

Figure 2

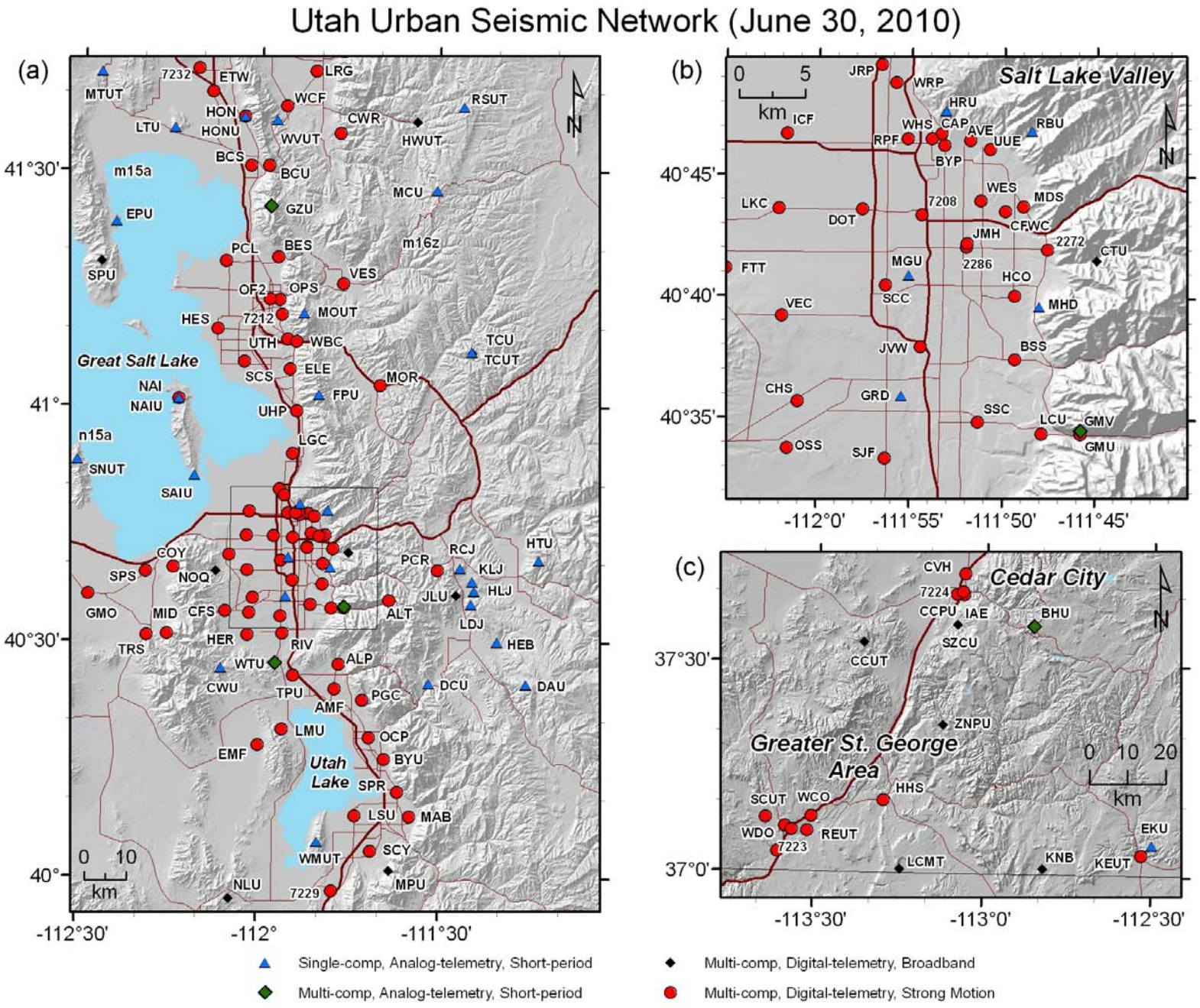
Utah Urban Seismic Network (June 30, 2010)
(a)
(b)
(c)
Salt Lake Valley
Cedar City
Greater St. George Area
Great Salt Lake
Utah Lake
m15a
n15a
m16z
41°30'
41°
40°30'
40°
-112°30'
-112°
-111°30'
40°45'
40°40'
40°35'
-112°0'
-111°55'
-111°50'
-111°45'
37°30'
37°0'
-113°30'
-113°0'
-112°30'
0 10
km
0 5
0 10 20
MTUT
7232
ETW
LRG
WCF
RSUT
HON
HONU
LTU
CWR
HWUT
WVUT
BCS
BCU
MCU
EPU
GZU
PCL
BES
SPU
VES
OF2
OPS
HES
7212
MOUT
UTH
WBC
TCU
TCUT
SCS
ELE
MOR
NAI
NAIU
FPU
UHP
LGC
SNUT
SAIU
COY
SPS
NOQ
PCR
RCJ
KLJ
HTU
GMO
MID
CFS
JLU
HLJ
ALT
LDJ
TRS
HER
RIV
HEB
WTU
ALP
CWU
TPU
PGC
DCU
DAU
AMF
LMU
OCP
EMF
BYU
SPR
LSU
MAB
WMUT
SCY
NLU
7229
MPU
JRP
WRP
HRU
ICF
WHS
CAP
AVE
RBU
RPF
UUE
BYP
WES
MDS
LKC
7208
DOT
CFWC
JMH
2272
CTU
FTT
MGU
2286
HCO
SCC
VEC
MHD
JVW
BSS
CHS
GRD
SSC
LCU
GMV
GMU
OSS
SJF
CVH
7224
CCPU
IAE
BHU
SZCU
CCUT
ZNPU
HHS
SCUT
WCO
WDO
REUT
7223
EKU
LCMT
KNB
KEUT
Single-comp, Analog-telemetry, Short-period
Multi-comp, Analog-telemetry, Short-period
Multi-comp, Digital-telemetry, Broadband
Multi-comp, Digital-telemetry, Strong Motion

Figure 3

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100401	13:40:29.77	39° 21.03′	111° 12.50′	9.6	0.7	6	168	6	0.03
100401	17:26:42.64	36° 56.75′	113° 02.89′	22.0	2.5W	15	181	19	0.25
100404	06:40:21.46	39° 25.04′	112° 00.74′	2.1*	1.6	13	64	14	0.19
100404	15:23:43.22	41° 58.24′	112° 27.54′	7.0	2.2W	19	115	12	0.17
100404	19:51:05.95	41° 51.36′	111° 30.15′	2.4*	0.7	8	103	23	0.12
100404	20:55:18.40	41° 58.98′	112° 27.79′	6.6	0.9	14	117	13	0.15
100404	22:22:52.82	41° 51.90′	111° 30.17′	3.9*	0.4	9	105	23	0.12
100405	19:02:37.02	41° 02.83′	111° 02.98′	2.1*	1.3	11	220	44	0.14
100405	23:04:19.27	39° 45.89′	110° 54.64′	9.3	1.3	5	260	10	0.03
100407	13:19:48.78	39° 25.82′	111° 12.47′	2.4*	1.3	13	82	15	0.12
100408	18:46:52.02	39° 25.40′	111° 54.93′	7.5	1.5	15	118	13	0.17
100409	06:43:26.10	37° 26.72′	113° 08.12′	1.4*	1.2	11	109	17	0.12
100409	08:33:13.84	37° 26.88′	113° 07.92′	10.8	1.5	12	107	10	0.12
100409	12:33:51.29	39° 42.04′	110° 43.75′	0.0	1.6	10	148	4	0.27
100409	20:58:29.75	37° 32.08′	112° 18.44′	1.6*	3.0	17	125	10	0.25
100409	22:20:14.13	39° 45.72′	110° 55.36′	2.5*	1.6	10	191	11	0.27
100410	14:30:18.55	41° 48.99′	112° 12.41′	6.6*	0.6	15	57	16	0.22
100410	21:36:43.67	39° 27.10′	111° 12.87′	5.4*	2.1W	21	85	17	0.17
100410	23:04:29.45	39° 25.96′	111° 12.92′	5.3*	1.5W	17	153	15	0.17
100411	10:07:40.16	39° 19.13′	110° 39.20′	9.3*	1.6	20	109	19	0.21
100411	22:06:41.00	41° 26.71′	112° 09.69′	3.7*	1.3	20	52	16	0.20
100411	22:14:31.91	41° 25.85′	112° 27.12′	1.8	1.1	10	164	6	0.14
100412	00:07:12.07	41° 26.94′	112° 09.32′	6.8*	1.8	25	53	15	0.22
100412	00:13:29.29	41° 26.45′	112° 09.55′	5.7*	0.5	8	159	15	0.19
100412	00:35:51.14	41° 26.36′	112° 09.56′	6.2*	1.2	17	54	15	0.15
100412	02:51:29.66	41° 26.66′	112° 09.39′	7.0*	1.6	20	67	15	0.14
100412	09:26:28.32	41° 45.49′	111° 30.69′	10.9	0.7	7	123	15	0.05
100412	11:57:35.63	41° 45.71′	111° 31.00′	7.4*	1.6	20	106	15	0.19
100412	12:07:36.23	41° 45.38′	111° 31.29′	7.1*	2.5W	30	74	15	0.20
100412	21:47:30.45	37° 27.02′	113° 07.73′	10.6	1.1	9	106	10	0.06
100413	15:50:37.64	39° 42.76′	110° 45.02′	3.9*	1.3	5	170	13	0.10
100413	18:36:35.26	40° 34.77′	111° 22.99′	1.6	0.0	5	223	2	0.08
100414	07:22:10.75	39° 25.21′	111° 12.25′	8.2	0.8	7	163	14	0.14
100414	07:32:17.85	39° 37.36′	110° 25.43′	1.5	0.1	6	207	2	0.36
100414	17:03:52.33	37° 32.85′	113° 02.11′	1.8	1.2	9	74	7	0.13
100414	18:58:45.15	38° 02.02′	111° 06.76′	2.7*	3.9W	28	117	34	0.29
100414	20:46:30.97	38° 01.91′	111° 07.00′	0.8*	1.8W	15	125	24	0.36
100414	22:18:56.40	39° 40.49′	110° 27.82′	2.4	1.1	6	152	8	0.15
100414	22:19:05.90	39° 26.15′	111° 11.58′	9.9	1.8	6	150	16	0.10
100414	22:19:10.09	38° 01.82′	111° 07.11′	0.5*	1.8	10	125	24	0.27
100414	22:39:52.98	38° 02.40′	111° 07.08′	5.0*	3.1W	18	129	35	0.26
100414	22:54:53.70	39° 26.11′	111° 12.32′	0.1*	1.6	14	81	15	0.14
100414	23:05:17.48	38° 01.44′	111° 07.13′	11.9*	1.6	12	123	24	0.15
100414	23:40:50.41	37° 26.93′	113° 07.80′	10.3	1.0	8	107	10	0.06
100415	00:30:52.50	38° 02.59′	111° 07.88′	1.3*	2.1W	12	119	36	0.27

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100415	01:20:05.52	39° 40.09′	110° 28.96′	2.1	1.3	9	111	9	0.19
100415	03:11:35.65	38° 02.06′	111° 07.80′	1.2*	1.6	12	121	23	0.38
100415	03:12:53.58	38° 01.03′	111° 07.50′	4.6*	0.9	7	134	25	0.26
100415	03:24:37.06	39° 25.99′	111° 12.66′	2.5*	1.8W	14	115	15	0.10
100415	08:04:09.06	38° 02.07′	111° 06.19′	13.7	1.6	11	120	24	0.14
100415	09:32:33.21	41° 26.32′	112° 09.52′	5.0*	0.1	7	160	15	0.11
100415	09:49:13.82	38° 02.83′	111° 06.70′	1.4*	1.8W	18	127	35	0.24
100415	10:48:36.53	38° 02.62′	111° 06.78′	2.6*	3.2W	30	117	35	0.23
100415	16:08:53.34	38° 02.36′	111° 07.43′	1.4*	1.7W	13	129	35	0.21
100415	19:43:58.79	38° 02.38′	111° 07.38′	5.8*	1.8W	12	129	35	0.23
100415	19:48:54.74	38° 02.56′	111° 07.33′	6.9*	1.5	7	129	35	0.22
100415	23:59:38.97	41° 42.20′	111° 05.65′	7.9*	4.9W	29	88	29	0.23
100416	06:00:26.85	38° 02.27′	111° 06.97′	0.6*	2.3W	27	120	35	0.38
100416	08:52:32.67	38° 02.34′	111° 07.11′	2.1*	1.9W	14	129	35	0.21
100416	09:14:19.89	38° 11.61′	113° 06.47′	7.0*	1.6	11	122	49	0.24
100416	13:54:10.11	39° 25.78′	111° 12.60′	2.2*	1.7	22	40	15	0.17
100416	17:52:43.06	40° 34.17′	111° 56.50′	1.4*	1.6	26	52	13	0.19
100416	19:48:05.43	42° 04.69′	112° 26.74′	4.3	2.2W	26	103	10	0.21
100417	06:26:18.44	38° 01.86′	111° 08.18′	0.9*	1.9W	18	121	23	0.42
100418	01:11:04.06	42° 29.95′	111° 39.45′	7.4*	2.3W	16	93	44	0.20
100418	01:23:32.84	42° 29.23′	111° 39.31′	6.6*	2.3W	17	94	43	0.21
100418	09:59:17.37	42° 06.75′	111° 32.62′	6.4*	1.3	17	97	20	0.21
100418	16:48:05.25	39° 25.93′	111° 12.45′	2.0*	1.6	12	82	15	0.08
100418	23:30:44.70	41° 10.56′	111° 38.32′	11.5	0.8	9	107	20	0.18
100419	03:34:12.70	39° 26.10′	111° 12.86′	2.1*	1.7	16	117	15	0.17
100419	22:05:58.54	38° 01.45′	111° 06.65′	4.8*	1.6	11	122	25	0.27
100420	08:57:45.90	37° 54.15′	113° 10.68′	1.1*	2.9W	24	79	26	0.28
100420	09:27:04.17	39° 00.22′	111° 30.45′	8.1*	1.8W	14	56	23	0.22
100421	01:59:36.64	39° 25.60′	111° 12.56′	2.0*	1.9	16	54	14	0.19
100421	10:45:49.30	41° 46.21′	111° 31.25′	6.3*	1.3	13	104	17	0.23
100421	16:32:06.17	37° 48.55′	113° 00.61′	3.0*	2.2W	16	52	25	0.27
100421	18:58:39.54	39° 25.77′	111° 14.05′	8.7	2.0	8	195	15	0.06
100422	05:07:51.20	39° 54.01′	111° 37.97′	6.2*	1.0	8	189	13	0.09
100422	07:05:59.72	39° 26.07′	111° 12.65′	2.5*	1.7W	14	53	15	0.11
100422	08:21:53.95	40° 29.93′	111° 20.07′	8.6	0.3	6	119	12	0.02
100422	12:31:01.72	37° 32.66′	113° 02.72′	4.2	1.3	14	65	7	0.15
100422	12:58:29.67	41° 51.01′	111° 31.34′	3.3*	2.0W	17	99	21	0.17
100422	23:15:42.56	39° 26.26′	111° 12.92′	3.2*	1.8	17	55	16	0.14
100423	03:52:41.47	39° 40.17′	110° 28.07′	1.8	1.6	11	117	8	0.14
100423	20:28:00.08	42° 04.64′	112° 26.97′	3.4	1.3	11	105	10	0.15
100424	02:52:35.35	39° 25.78′	111° 12.54′	2.6*	1.7W	15	54	15	0.13
100424	08:30:08.52	39° 25.90′	111° 12.73′	2.0*	1.7	14	83	15	0.11
100424	17:49:31.00	39° 25.89′	111° 12.30′	8.0	1.8	13	81	15	0.18
100425	13:14:29.45	41° 22.69′	112° 11.34′	3.0*	0.5	10	105	18	0.24
100425	13:17:28.49	38° 29.99′	112° 48.52′	6.5	1.6	17	89	4	0.28

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100425	16:06:07.31	41° 46.29′	111° 30.47′	6.6*	1.3	15	109	16	0.18
100425	21:57:05.60	39° 26.16′	111° 13.02′	2.1*	1.9	15	71	16	0.14
100425	22:02:20.58	39° 42.79′	110° 36.88′	2.9*	1.4	8	83	11	0.14
100426	00:32:38.35	39° 26.02′	111° 13.07′	3.3*	1.7W	17	56	15	0.15
100426	13:36:31.32	41° 04.87′	112° 00.36′	12.0	1.3	21	58	11	0.12
100428	11:15:34.59	41° 52.57′	111° 55.79′	6.8*	1.3	16	68	16	0.14
100428	12:18:12.17	38° 02.35′	111° 07.07′	1.8*	2.8W	21	120	35	0.30
100428	14:15:30.40	41° 33.40′	112° 50.71′	5.6*	1.3	14	181	26	0.17
100428	17:19:06.20	39° 26.27′	111° 12.70′	2.0*	1.9	14	54	16	0.16
100428	17:40:02.24	38° 02.09′	111° 06.88′	5.0*	3.2W	24	121	34	0.22
100430	06:16:39.07	39° 25.86′	111° 12.69′	3.1*	1.7	10	116	15	0.11
100501	13:51:45.60	39° 26.39′	111° 12.47′	2.7*	1.5	9	116	16	0.17
100502	00:14:31.18	39° 26.17′	111° 10.89′	11.8	1.5	6	156	16	0.11
100502	15:00:00.83	38° 02.24′	111° 06.81′	4.9*	3.6W	18	129	24	0.26
100502	15:03:54.37	38° 01.64′	111° 07.54′	4.2*	2.2W	10	123	24	0.23
100502	15:06:32.93	38° 01.52′	111° 06.62′	12.9	2.2	8	122	25	0.08
100502	15:15:09.64	38° 01.33′	111° 07.50′	4.2*	1.9W	10	123	24	0.32
100502	15:53:36.02	39° 26.05′	111° 12.22′	9.9	1.6	9	81	15	0.22
100502	16:00:07.77	38° 00.52′	111° 07.53′	1.5*	1.9	7	169	25	0.36
100502	16:27:23.25	39° 25.73′	111° 15.94′	13.3	1.6	7	212	16	0.07
100502	17:30:01.59	39° 26.79′	111° 11.36′	9.4	1.4	6	154	17	0.10
100502	18:23:23.42	38° 02.58′	112° 01.95′	6.0*	1.4	12	69	13	0.18
100502	19:23:07.49	38° 01.34′	111° 07.01′	7.1*	1.9W	10	140	25	0.25
100502	20:46:27.80	39° 26.39′	111° 12.00′	2.5*	1.1	8	81	16	0.17
100502	20:51:47.33	39° 26.00′	111° 13.00′	7.7	1.3	11	97	15	0.16
100503	12:02:08.32	39° 07.41′	111° 11.69′	2.6*	1.7	14	94	19	0.12
100503	18:22:59.59	39° 26.07′	111° 11.99′	6.2*	1.0	6	123	15	0.17
100503	20:21:51.22	39° 26.01′	111° 12.73′	5.5*	1.4	12	116	15	0.14
100504	00:47:07.72	39° 27.17′	111° 12.85′	2.5*	1.5	9	121	17	0.12
100504	03:49:51.23	41° 27.47′	112° 19.58′	1.6*	1.4	13	89	10	0.15
100504	04:10:20.75	41° 04.76′	112° 04.44′	7.3*	2.2W	25	63	15	0.18
100504	05:31:30.25	39° 26.05′	111° 12.76′	2.2*	1.7W	14	54	15	0.11
100504	18:37:03.61	39° 25.96′	111° 12.92′	7.3*	1.8W	17	83	15	0.15
100504	18:46:01.31	40° 00.56′	111° 49.82′	9.7	0.4	6	194	14	0.08
100504	20:20:32.83	38° 58.96′	111° 21.65′	15.6	1.3	5	118	23	0.04
100504	22:41:06.39	39° 26.10′	111° 11.75′	7.3*	1.6	7	149	15	0.16
100505	01:00:51.10	39° 26.21′	111° 10.23′	9.3	1.4	7	130	15	0.16
100505	03:13:23.79	39° 25.29′	111° 12.14′	3.6*	1.6	6	163	14	0.02
100505	03:17:51.50	39° 26.18′	111° 12.14′	2.5*	1.2	8	114	16	0.15
100505	04:24:40.78	39° 16.29′	110° 21.56′	17.6*	1.8	6	266	38	0.26
100505	05:19:34.19	40° 28.76′	111° 59.20′	8.3	1.0	19	99	4	0.18
100505	06:48:25.49	39° 25.96′	111° 12.33′	0.3*	1.1	11	81	15	0.19
100506	09:11:38.03	39° 41.06′	111° 13.74′	1.6	1.9	10	179	5	0.25
100506	16:31:52.96	39° 23.01′	111° 05.07′	2.0	1.6	9	142	8	0.11
100506	21:46:17.32	39° 26.18′	111° 11.72′	2.5*	1.4	9	80	16	0.23

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100506	21:55:19.57	38° 01.77′	111° 06.59′	1.2*	2.3W	15	130	24	0.31
100506	23:19:37.30	39° 26.41′	111° 12.72′	2.8*	1.5	7	117	16	0.18
100507	00:08:24.47	39° 26.44′	111° 12.42′	5.5*	1.7	9	116	16	0.09
100507	03:34:23.44	39° 26.06′	111° 12.70′	2.6*	1.7	8	83	15	0.09
100507	05:12:26.65	39° 26.16′	111° 12.71′	7.2*	1.3	11	117	16	0.16
100507	08:25:03.25	39° 26.00′	111° 11.81′	3.0*	1.5	8	86	15	0.22
100507	21:16:01.01	39° 25.62′	111° 14.11′	10.6	1.5	9	195	15	0.12
100508	11:30:11.71	39° 26.00′	111° 13.72′	5.7*	1.6	15	146	15	0.20
100509	09:24:38.27	40° 41.64′	111° 32.78′	3.3*	0.1	10	160	13	0.11
100509	09:24:51.40	40° 37.20′	111° 34.72′	11.2	-0.3	9	152	11	0.23
100509	11:05:37.11	40° 29.54′	111° 58.59′	6.4	0.8	18	89	5	0.22
100510	22:53:23.70	41° 00.52′	111° 43.90′	8.8	0.6	12	90	9	0.16
100511	04:18:50.18	39° 26.27′	111° 12.24′	2.5*	1.7	10	114	16	0.18
100511	06:13:49.46	39° 26.19′	111° 12.34′	3.8*	0.6	6	114	16	0.21
100511	21:53:00.95	39° 26.14′	111° 12.81′	3.0*	1.7	9	83	15	0.22
100511	22:40:39.98	39° 26.17′	111° 11.99′	3.5*	1.7	12	81	16	0.20
100512	05:01:38.23	39° 25.73′	111° 12.63′	7.4	1.6	16	82	15	0.19
100512	11:00:05.65	39° 26.10′	111° 12.32′	3.9*	1.8	7	144	15	0.15
100512	13:29:11.99	39° 25.90′	111° 12.71′	6.2*	1.4	15	83	15	0.15
100512	19:48:22.72	39° 25.88′	111° 12.30′	3.2*	1.6	10	113	15	0.10
100513	04:21:48.82	39° 25.63′	111° 12.29′	6.6*	1.5	16	50	15	0.18
100513	05:05:43.73	37° 50.42′	113° 05.89′	3.9*	2.2W	15	75	31	0.28
100513	06:17:15.07	39° 26.27′	111° 12.36′	5.2*	1.3	10	115	16	0.11
100513	11:29:48.54	39° 25.06′	111° 12.43′	8.3	1.6	10	160	13	0.12
100513	18:19:35.04	39° 25.80′	111° 12.73′	8.9	1.4	15	83	15	0.25
100513	19:57:46.04	38° 49.56′	112° 03.43′	3.3*	1.5	13	114	16	0.21
100513	23:31:33.05	39° 26.56′	111° 11.98′	2.4*	1.4	9	114	16	0.23
100514	08:50:25.29	39° 40.22′	111° 18.31′	3.4*	1.6W	17	65	42	0.16
100514	12:11:04.78	39° 26.39′	111° 11.26′	6.1*	0.9	9	110	16	0.16
100514	13:12:30.32	39° 25.92′	111° 12.03′	5.6*	1.4	9	112	15	0.20
100514	13:24:30.23	39° 26.26′	111° 12.24′	3.7*	1.6	9	114	16	0.17
100515	08:00:17.22	38° 31.42′	112° 51.08′	1.0	2.3W	21	59	1	0.26
100516	19:03:12.79	41° 35.53′	111° 41.65′	8.9	0.9	11	158	11	0.08
100516	19:40:09.42	39° 26.26′	111° 11.84′	8.7	1.5	6	148	16	0.13
100517	15:38:34.16	39° 25.69′	111° 12.43′	6.2*	1.7	14	69	15	0.15
100517	22:06:34.37	39° 26.17′	111° 12.59′	2.1*	1.4	7	116	16	0.18
100518	06:26:19.64	39° 26.49′	111° 12.31′	4.5*	1.9	9	115	16	0.11
100518	06:29:23.69	37° 14.99′	112° 04.99′	4.1*	2.7W	16	125	30	0.33
100518	08:07:18.86	39° 26.41′	111° 12.13′	2.2*	1.5	10	115	16	0.11
100519	04:36:27.06	39° 26.09′	111° 12.68′	5.0*	1.3W	15	83	15	0.15
100520	01:07:54.18	39° 27.70′	111° 09.48′	8.2*	1.5	6	242	17	0.27
100520	04:35:35.97	39° 25.68′	111° 12.40′	7.5	1.3	11	196	15	0.14
100520	09:09:37.52	36° 51.34′	113° 27.00′	6.1*	1.5	15	182	25	0.33
100520	09:46:39.84	40° 27.80′	111° 57.74′	11.8	0.2	9	119	1	0.24
100520	09:46:54.18	40° 28.18′	111° 58.33′	10.2	0.6	13	121	2	0.16

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100520	12:01:33.21	41° 16.63′	111° 44.62′	13.4	1.0	24	78	25	0.22
100520	14:34:43.36	40° 28.32′	111° 58.43′	9.4	0.8	12	117	3	0.16
100520	19:50:13.09	39° 25.74′	111° 12.76′	8.6	1.8	15	83	15	0.21
100520	22:14:00.46	39° 25.81′	111° 12.30′	10.4	1.4	11	113	15	0.22
100520	22:39:35.26	38° 49.53′	112° 02.66′	1.2*	1.5	19	101	16	0.21
100520	23:42:33.52	38° 50.49′	112° 03.55′	3.4*	0.9	5	190	14	0.08
100521	04:46:46.35	39° 25.75′	111° 12.43′	7.4	1.7	21	45	15	0.18
100521	04:59:44.18	39° 27.57′	111° 11.61′	7.4*	0.9	5	236	18	0.10
100521	05:03:44.58	37° 26.71′	113° 08.70′	1.4*	1.1	13	82	30	0.15
100521	08:27:11.55	39° 26.03′	111° 12.33′	0.2*	1.2	11	81	15	0.13
100521	09:48:13.96	38° 59.09′	111° 23.34′	11.6	1.7	10	96	23	0.11
100521	20:14:52.39	37° 26.63′	113° 08.66′	4.3	1.9	13	81	10	0.22
100523	09:25:01.32	37° 08.05′	111° 54.22′	1.1*	1.7	14	116	50	0.37
100524	13:33:31.94	37° 07.41′	111° 53.54′	2.9*	1.6	9	142	54	0.27
100524	18:45:24.96	39° 25.78′	111° 12.50′	8.1	1.6	17	82	15	0.16
100525	05:30:30.11	39° 25.93′	111° 12.40′	7.1*	1.4	15	82	15	0.18
100525	05:58:21.13	39° 25.97′	111° 11.81′	6.3*	1.0	13	54	15	0.20
100525	08:20:04.19	39° 26.96′	111° 05.18′	5.9*	1.6	12	85	15	0.12
100525	09:49:50.50	37° 50.22′	112° 39.82′	3.3*	1.1	19	53	32	0.24
100525	13:16:36.51	39° 25.95′	111° 12.06′	2.9*	1.3	10	68	15	0.16
100525	18:32:03.73	39° 25.93′	111° 12.30′	6.8*	1.6	13	81	15	0.15
100526	01:24:31.62	39° 25.93′	111° 12.10′	6.3*	1.4	10	81	15	0.20
100526	12:45:32.72	39° 26.03′	111° 12.67′	8.3	1.5	14	83	15	0.15
100526	20:58:57.18	40° 26.77′	111° 20.73′	1.9	0.7	10	141	6	0.18
100526	23:42:20.63	41° 56.55′	112° 32.59′	3.9*	0.4	10	138	18	0.29
100527	03:02:50.12	39° 25.92′	111° 12.60′	7.1*	1.6	12	82	15	0.18
100527	06:16:55.91	41° 41.33′	111° 05.23′	0.4*	3.1W	22	88	29	0.22
100527	16:39:53.40	36° 53.26′	113° 31.77′	1.3*	1.7	8	233	29	0.09
100527	22:55:37.11	39° 23.65′	111° 55.89′	0.9*	1.7	15	69	16	0.34
100527	22:57:32.93	39° 25.15′	111° 56.07′	3.1*	1.5	5	120	14	0.13
100527	22:57:31.43	39° 21.18′	111° 51.55′	12.5	1.4	7	140	18	0.24
100527	22:59:38.63	39° 24.27′	111° 55.70′	3.3*	1.1	5	127	15	0.03
100528	00:20:10.73	39° 24.49′	111° 55.59′	1.3*	0.4	5	125	15	0.07
100528	05:56:31.00	39° 26.08′	111° 12.44′	0.4*	1.6W	17	52	15	0.24
100528	14:51:27.35	41° 30.06′	112° 49.15′	2.3*	1.5	20	149	31	0.22
100528	15:11:01.10	40° 28.46′	111° 58.60′	9.6	0.8	12	85	3	0.14
100528	15:11:32.80	40° 29.40′	111° 59.28′	5.9	0.8	10	100	5	0.24
100528	23:55:57.65	41° 47.82′	112° 02.18′	9.1*	0.9	14	76	20	0.18
100529	12:52:50.34	41° 29.91′	112° 50.75′	7.1*	1.7	19	178	32	0.12
100529	14:54:35.27	41° 29.98′	112° 50.96′	7.5*	2.2W	25	178	32	0.19
100531	13:51:10.06	38° 36.26′	112° 39.67′	3.2*	0.9	13	112	19	0.16
100531	22:35:39.98	38° 56.88′	109° 21.13′	3.2*	2.9W	18	172	89	0.17
100601	01:07:57.36	41° 39.11′	111° 06.35′	15.4*	0.7	12	220	36	0.15
100601	04:38:16.05	38° 01.53′	111° 06.81′	11.7*	1.5	13	122	25	0.17
100602	00:14:56.49	38° 04.98′	112° 42.42′	2.4*	1.6	19	49	26	0.22

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100602	06:42:42.86	39° 25.84′	111° 12.18′	6.4*	1.0	14	52	15	0.19
100603	00:18:47.07	37° 50.58′	113° 05.59′	3.9*	1.5	15	71	31	0.29
100603	02:07:09.48	37° 52.42′	113° 04.01′	7.6*	1.5	19	63	27	0.26
100603	07:11:46.32	39° 40.07′	110° 28.96′	0.2	1.6	15	111	9	0.19
100603	08:59:47.57	39° 26.06′	111° 12.70′	5.6*	1.8W	28	37	15	0.20
100603	22:29:09.66	39° 53.12′	111° 57.02′	10.1	1.0	8	141	13	0.12
100604	10:37:31.73	37° 45.37′	113° 08.41′	2.2*	1.5	14	57	19	0.27
100605	02:57:29.92	40° 44.99′	112° 03.43′	5.7*	1.5	19	86	12	0.16
100605	05:01:49.09	41° 58.13′	112° 30.98′	3.0*	0.3	6	134	17	0.14
100605	06:19:09.46	38° 01.99′	111° 05.87′	12.6	1.5	11	120	25	0.14
100605	11:18:49.84	37° 01.22′	112° 55.05′	18.7	1.6	9	175	8	0.07
100607	20:55:01.89	37° 00.50′	113° 30.76′	1.0*	2.0W	12	160	24	0.22
100608	05:51:46.59	39° 26.10′	111° 12.21′	6.8*	1.4	10	81	15	0.13
100608	19:45:40.14	39° 25.56′	111° 12.52′	9.6	1.4	14	81	14	0.21
100608	20:08:04.29	41° 51.87′	112° 05.04′	6.6*	0.6	16	53	18	0.14
100609	02:57:48.86	37° 00.27′	112° 55.01′	18.1	1.7	15	191	9	0.27
100609	04:51:09.25	41° 58.89′	112° 34.93′	2.9*	0.7	12	161	19	0.10
100609	21:00:42.02	39° 27.17′	111° 50.98′	0.3	2.2W	19	58	7	0.25
100609	21:36:53.81	41° 35.99′	112° 13.84′	0.2	0.7	5	140	2	0.11
100610	01:19:39.09	39° 26.15′	111° 10.19′	9.9	1.4	6	161	15	0.13
100610	05:54:10.62	39° 42.48′	111° 18.05′	12.3	1.0	11	143	11	0.11
100610	16:35:44.90	40° 28.72′	111° 58.74′	8.5	1.1	24	68	3	0.24
100610	16:58:30.48	40° 28.42′	111° 58.99′	10.2	2.7W	32	58	3	0.21
100610	16:58:59.75	40° 28.23′	111° 58.55′	9.5	2.5W	15	88	3	0.18
100611	11:06:14.54	41° 41.00′	111° 04.54′	0.1*	3.0W	25	88	30	0.21
100611	18:09:52.44	41° 35.30′	112° 14.88′	0.4	1.6	17	118	0	0.26
100611	18:48:35.86	42° 02.35′	112° 32.06′	2.8*	1.3	15	151	12	0.13
100611	19:59:40.25	38° 40.61′	112° 10.98′	12.0	0.9	7	111	18	0.14
100611	22:08:15.27	41° 35.15′	112° 14.98′	0.6	1.5W	17	100	1	0.19
100612	01:54:03.96	42° 02.44′	112° 31.31′	5.0*	1.4	22	115	12	0.20
100612	01:54:45.07	42° 02.64′	112° 31.98′	2.9*	0.5	7	152	12	0.16
100612	05:13:41.45	37° 31.74′	112° 18.75′	1.0	2.1W	24	102	9	0.33
100612	18:14:28.45	39° 40.27′	110° 27.55′	2.9	1.2	6	120	8	0.04
100612	21:51:13.35	38° 41.60′	112° 09.29′	5.7*	1.6	13	107	20	0.11
100613	01:46:22.35	39° 26.19′	111° 12.43′	5.3*	1.4	10	115	16	0.15
100613	02:08:57.78	39° 25.89′	111° 12.31′	7.7	1.3	12	113	15	0.19
100613	07:43:38.87	38° 01.06′	112° 25.26′	1.3*	1.7	18	58	21	0.19
100614	01:53:02.75	37° 25.83′	113° 07.04′	3.8*	1.1	11	98	19	0.22
100614	07:47:11.50	37° 26.14′	113° 06.76′	5.6	0.7	14	106	9	0.27
100614	17:42:01.53	38° 01.73′	111° 07.11′	5.3*	1.7	19	122	24	0.30
100616	07:33:03.74	38° 26.76′	110° 07.09′	2.0*	1.7W	15	123	79	0.31
100617	01:52:04.27	41° 01.16′	111° 38.69′	11.9	1.0	20	76	16	0.19
100617	05:58:04.69	39° 25.70′	111° 11.97′	8.9	1.7	14	84	15	0.21
100617	06:32:50.77	40° 28.34′	111° 58.83′	10.6	1.0	16	66	3	0.16
100617	06:33:59.04	40° 30.42′	111° 58.08′	2.0	0.6	6	104	6	0.28

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100617	09:38:03.79	40º 28.33′	111º 59.04′	9.1	1.2	20	66	3	0.16
100618	03:03:35.14	39º 14.55′	111º 16.40′	2.1	0.8	8	112	8	0.14
100618	04:06:19.98	39º 26.39′	111º 13.05′	5.0*	1.1	9	119	16	0.19
100618	10:10:45.47	40º 56.54′	111º 37.53′	1.5*	1.4	35	88	20	0.19
100619	02:03:17.04	39º 00.22′	111º 23.02′	9.3*	1.5	7	94	25	0.13
100619	04:23:19.96	37º 48.17′	112º 26.00′	1.4*	2.2W	23	69	34	0.25
100619	10:03:33.33	41º 36.25′	112º 58.52′	7.2*	2.4W	40	103	26	0.22
100619	15:40:45.43	39º 00.33′	111º 22.69′	2.3*	1.6W	20	94	25	0.18
100620	01:36:52.73	39º 00.67′	111º 23.57′	11.7*	1.6	9	93	26	0.11
100620	09:13:45.16	41º 56.15′	112º 26.78′	1.7*	0.2	7	109	10	0.12
100620	14:15:36.95	37º 08.37′	112º 56.21′	12.9	1.0	9	99	17	0.14
100620	16:36:13.70	38º 01.82′	112º 29.64′	1.0*	1.5	19	55	27	0.26
100620	16:37:41.87	38º 01.65′	112º 29.79′	1.1*	1.4	16	55	27	0.22
100621	03:31:58.70	39º 53.02′	111º 44.41′	8.6	1.0	16	102	4	0.21
100621	20:27:23.29	36º 56.25′	113º 31.24′	1.1*	1.7	9	170	26	0.52
100621	23:54:36.75	39º 00.26′	111º 23.21′	5.6*	1.6W	12	80	25	0.10
100622	06:26:55.94	39º 00.03′	111º 23.03′	3.1*	1.5	12	94	25	0.25
100622	08:17:49.18	39º 00.57′	111º 22.88′	7.1*	1.7	11	94	26	0.25
100622	10:43:15.53	38º 59.83′	111º 22.65′	10.6*	1.5	8	95	25	0.13
100622	16:13:15.08	37º 45.96′	112º 56.62′	5.7*	1.0	15	51	21	0.31
100622	22:33:53.05	39º 26.37′	111º 12.21′	6.7*	1.6	13	115	16	0.13
100622	23:56:37.30	39º 00.60′	111º 22.67′	15.0	1.7	7	94	26	0.12
100623	00:40:21.96	39º 01.16′	111º 22.49′	17.9	1.7	8	94	27	0.14
100623	06:05:44.00	38º 49.61′	111º 27.89′	7.9	1.5	7	123	6	0.21
100624	11:06:41.11	39º 00.81′	111º 22.29′	3.8*	1.3	9	108	26	0.22
100624	15:02:27.52	38º 49.55′	112º 05.88′	2.5*	1.7	19	90	16	0.21
100624	16:24:53.16	38º 49.48′	112º 04.75′	3.4*	1.7	19	68	16	0.22
100624	21:38:30.52	39º 00.46′	111º 22.52′	5.2*	1.7	17	74	26	0.22
100624	22:44:07.15	39º 00.09′	111º 22.74′	3.9*	1.7	14	94	25	0.19
100624	23:39:48.84	37º 50.24′	113º 21.04′	1.3	1.6	16	95	10	0.50
100625	00:49:54.98	38º 59.78′	111º 22.69′	8.0*	1.4	12	95	24	0.18
100625	11:07:49.77	41º 04.37′	111º 32.77′	11.6	1.3	29	81	13	0.15
100625	11:12:26.12	42º 14.51′	111º 33.85′	10.7*	0.9	11	107	23	0.11
100625	16:02:05.70	39º 02.43′	111º 17.24′	17.2	1.3	7	167	29	0.17
100625	22:54:56.10	39º 00.40′	111º 23.02′	1.4*	2.6W	30	74	26	0.27
100627	03:36:22.15	39º 00.64′	111º 22.81′	7.9*	1.2	11	94	26	0.18
100627	05:46:35.94	39º 00.02′	111º 22.75′	3.4*	1.7	17	74	25	0.23
100627	11:49:01.54	38º 46.22′	111º 36.91′	1.5*	1.4	15	89	46	0.16
100627	21:23:47.02	37º 03.07′	112º 48.54′	11.6	1.4	17	112	4	0.26
100627	22:23:40.28	40º 28.51′	111º 59.10′	9.7	1.1	23	64	4	0.24
100627	22:32:05.84	40º 28.61′	111º 58.19′	9.2	0.7	16	81	3	0.15
100628	03:39:58.19	37º 03.29′	112º 48.51′	11.0	1.1	15	111	4	0.22
100628	05:22:16.70	39º 26.22′	111º 11.57′	7.6*	1.0	6	112	16	0.15
100628	08:56:14.87	39º 00.43′	111º 23.15′	2.0*	1.3	13	94	26	0.16
100628	16:44:32.20	41º 53.32′	112º 24.13′	7.9	0.4	8	93	8	0.13

Table 2. Earthquakes in the Utah Region: April 1–June 30, 2010

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
100628	20:12:32.93	37º 00.49′	113º 30.28′	1.9*	1.7	12	160	23	0.16
100630	16:15:41.73	39º 01.05′	111º 22.34′	17.3	1.0	8	94	27	0.14
100630	21:37:05.31	37º 08.79′	111º 53.47′	1.9*	1.7	9	211	50	0.29

number of earthquakes = 318

* 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, 2010

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

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
ALT	Alta City Offices, Alta, UT	ALT	EN[ZEN]	3	UU	40° 35.42′	111° 38.25′	2635	Applied Mems	ANSS-130	Digital	ANSS
AMF	Tri-Cities Golf Course American Fork, UT	AMF	EN[ZEN]	3	UU	40° 24.11′	111° 47.27′	1445	EpiSensor	K2	Digital	ANSS
ANMO	Albuquerque, NM	ANMO	BH[ZEN]	3	IU	34° 57.01′	106° 27.61′	1743	*	*	Digital	USGS
ARGU	Argyle Ridge, UT	ARGU	EHZ	1	UU	39° 49.37′	110° 32.62′	2828	S13	Mtn Top	Digital	Utah
ARUT	Antelope Range, UT	ARUT	EHZ	1	UU	37° 47.28′	113° 26.42′	1646	L4C	Mtn Top	Digital	Utah
AVE	Avenues, Salt Lake City, UT	AVE	EN[ZEN]	3	UU	40° 46.47′	111° 51.83′	1387	Applied Mems	ANSS-130	Digital	ANSS
BCE	Book Cliffs East, UT	BCE	EHZ	4	UU	39° 36.79′	110° 24.51′	2666	L4C	K2	Digital	Utah
			EN[ZEN]						EpiSensor			
BCS	Brigham City Maintenance Shop Brigham City, UT	BCS	EN[ZEN]	3	UU	41° 30.71′	112° 01.98′	1303	EpiSensor	K2	Digital	ANSS
BCU	Brigham City, UT	BCU	EN[ZEN]	3	UU	41° 30.74′	111° 58.93′	1676	EpiSensor	K2	Digital	ANSS
BCW	Book Cliffs West, UT	BCW	EHZ	4	UU	39° 43.82′	110° 44.55′	2614	L4C	K2	Digital	Utah
			EN[ZEN]						EpiSensor			
BEI	Bear River Range, ID	BEI	EHZ	1	UU	42° 07.00′	111° 46.94′	1859	L4C	Mtn Top	Digital	USGS
BES	Bates Elementary School Ogden, UT	BES	EN[ZEN]	3	UU	41° 19.10′	111° 57.26′	1455	EpiSensor	K2	Digital	ANSS
BGMZ	Barton Gulch, MT	BGMT	EHZ	1	MB	45° 14.00′	112° 02.43′	2172	*	*	Analog	MBMT
BGU	Big Grassy Mountain, UT	BGU	EN[ZEN]	3	UU	40° 55.53′	113° 01.79′	1640	EpiSensor	Q330	Digital	ANSS
			HH[ZEN]	3					Trilium 120			
BHU	Blowhard Mountain, UT	BHU	EH[ZEN]	3	UU	37° 35.55′	112° 51.42′	3230	S13	Mtn Top	Digital	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	Mtn Top	Digital	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	P17A	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
BTU	Barney Top, UT	BTU	EHZ	1	UU	37° 45.34′	111° 52.46′	3235	S13	Mtn Top	Digital	Utah

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
BYU	Brigham Young University Provo, UT	BYU	EN[ZEN]	3	UU	40° 15.17′	111° 38.97′	1421	EpiSensor	K2	Digital	ANSS
BZMZ	Bozeman Pass, MT	BZMT	EHZ	1	MB	45° 38.89′	110° 47.80′	1905	*	*	Analog	MBMT
CAPU	Capitol, Salt Lake City, UT	CAP	EN[ZEN]	3	UU	40° 46.71′	111° 53.40′	1384	Applied Mems	ANSS-130	Digital	ANSS
CCPU	Cedar City Park, UT	CCPU	EN[ZEN]	3	UU	38° 16.61′	112° 38.42′	1799	PA-23	SMART-24	Digital	Utah
CCUT	Cedar City, UT	CCUT	HH[ZEN]	3	UU	37° 33.04′	113° 21.77′	2124	STS-2	ANSS-130	Digital	USGS
			EN[ZEN]	3					Applied Mems			
CFS	Copperton Fire Station Copperton, UT	CFS	EN[ZEN]	3	UU	40° 33.96′	112° 05.61′	1654	EpiSensor	K2	Digital	ANSS
CHS	Copper Hills High School, West Jordan, UT	CHS	EN[ZEN]	3	UU	40° 35.68′	112° 01.03′	1460	Applied Mems	ANSS-130	Digital	ANSS
COM	Craters of the Moon, ID	COMI	EHZ	1	IE	43° 27.72′	113° 35.64′	1890	*	*	Digital	INEEL
COY	Coyote Canyon, Tooele Valley, UT	COY	EN[ZEN]	3	UU	40° 39.56′	112° 14.34′	1572	Applied Mems	ANSS-130	Digital	ANSS
CRMZ	Chrome Mountain, MT	CRMT	EHZ	1	MB	45° 27.35′	110° 08.41′	2941	*	*	Analog	MBMT
CTU	Camp Tracy, UT	CTU	HH[ZEN]	3	UU	40° 41.55′	111° 45.02′	1731	40T	72A-07	Digital	USGS
CVH	Cedar City, Canyon View High School, UT	CVH	EN[ZEN]	3	UU	37° 42.91′	113° 03.85′	1724	PA-23	SMART-24	Digital	Utah
CVRU	Castle Valley Ranch, Emery, UT	Q16A	HH[ZEN]	3	UU	38° 55.06′	111° 10.30′	1912	STS-2	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
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	Mtn Top	Digital	USGS
DAU	Daniels Canyon, UT	DAU	EHZ	1	UU	40° 24.75′	111° 15.35′	2771	S13	Mtn Top	Digital	USGS
DBD	Des Bee Dove, UT	DBD	EHZ	1	UU	39° 18.82′	111° 05.55′	2265	L4C	Mtn Top	Digital	Utah
DCM	Dugout Coal Mine, UT	DCM	EHZ	1	UU	39° 41.70′	110° 35.00′	2537	L4C	K2	Digital	Utah
			EN[ZEN]	3					EpiSensor			

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
DCU	Deer Creek Reservoir, UT	DCU	EHZ	1	UU	40° 24.82′	111° 31.61′	1829	L4C	Mtn Top	Digital	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]	6	UU				S13	Mtn Top	Digital	Utah, USGS
			EL[ZEN]									
DWU	Dry Willow, UT	DWU	EHZ	1	UU	38° 06.32′	112° 59.85′	2270	S13	Mtn Top	Digital	Utah
ECR	Eagle Creek, ID	ECRI	EHZ	1	IE	43° 03.24′	111° 22.26′	2086	*	*	Digital	INEEL
EKU	East Kanab, UT	EKU	EHZ	1	UU	37° 04.48′	112° 29.81′	1829	S13	Mtn Top	Digital	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	Mtn Top	Digital	Utah
EMF	Eagle Mountain Gas Tap, UT	EMF	EN[ZEN]	3	UU	40° 16.89′	111° 59.92′	1487	Applied Mems	ANSS-130	Digital	ANSS
EMU	Emma Park, UT	EMU	EH[ZEN]	4	UU	39° 48.84′	110° 48.92′	2268	S13	Mtn Top	Digital	USGS
			ELZ									
			EN[ZEN]	3					FBA23	K2	Digital	Utah
EPU	East Promontory, UT	EPU	EHZ	1	UU	41° 23.49′	112° 24.53′	1436	L4C	Mtn Top	Digital	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	Mtn Top	Digital	USGS
FPU	Francis Peak, UT	FPU	EHZ	1	UU	41° 01.58′	111° 50.21′	2816	L4C	Mtn Top	Digital	USGS
FSU	Fish Springs, UT	FSU	EHZ	1	UU	39° 43.35′	113° 23.48′	1487	18300	Mtn Top	Digital	Utah
FTT	Fire Training Tower, Magna, UT	FTT	EN[ZEN]	3	UU	40° 41.16′	112° 04.99′	1381	Applied Mems	ANSS-130	Digital	ANSS
FLWY	Flagg Ranch, WY	FLWY	BH[ZEN]	3	IW	44° 04.96′	110° 41.96′	2078	3ESP	RT-130	Digital	ANSS
GBI	Big Grassy Butte, ID	GBI	EHZ	1	IE	43° 59.22′	112° 03.78′	1541	*	*	Digital	INEEL
GCN	Grand Canyon, AZ	GCN	EHZ	1	AR	36° 02.64′	112° 07.68′	2294	*	*	Analog	NAU
GMO	Grantsville Maintenance Office, Grantsville, UT	GMO	EN[ZEN]	3	UU	40° 36.04′	112° 28.48′	1320	Applied Mems	ANSS-130	Digital	ANSS
GMU	Granite Mountain, UT	GMU	EH[ZEN]	4	UU	40° 34.53′	111° 45.79′	1829	S13	Mtn Top	Digital	USGS
			ELZ									

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
GRD	Gardner Farm, UT	GRD	EHZ	1	UU	40° 35.93′	111° 55.47′	1323	Ranger	Mtn Top	Digital	USGS
GRR	Grays Lake, ID	GRRI	EHZ	1	IE	42° 56.28′	111° 25.32′	2207	*	*	Digital	INEEL
GZU	Grizzly Peak, UT	GZU	EH[ZEN]	4	UU	41° 25.53′	111° 58.50′	2646	S13	Mtn Top	Digital	USGS
			ELZ									
HCO	Holladay City Offices Holladay, UT	HCO	EN[ZEN]	3	UU	40° 40.07′	111° 49.38′	1362	EpiSensor	K2	Digital	ANSS
HDU	Hyde Park, UT	HDU	EHZ	1	UU	41° 48.18′	111° 45.99′	1807	L4C	Mtn Top	Digital	USGS
HEB	Heber, UT	HEB	EHZ	1	UU	40° 30.09′	111° 20.15′	1925	S13	Mtn Top	Digital	Utah
HER	Herriman Fire Station Herriman, UT	HER	EN[ZEN]	3	UU	40° 30.94′	112° 01.85′	1502	EpiSensor	K2	Digital	ANSS
HES	Hooper Elementary School Hooper, UT	HES	EN[ZEN]	3	UU	41° 09.89′	112° 07.30′	1292	EpiSensor	K2	Digital	ANSS
HHA	Hell′s Half Acre, ID	HHAI	EHZ	1	IE	43° 17.70′	112° 22.74′	1371	*	*	Digital	INEEL
HHS	Hurricane High School, UT	HHS	EN[ZEN]	3	UU	37° 10.43′	113° 17.74′	987	EpiSensor	Etna	Digital	Utah
HLI	Hailey, ID	HLID	BH[ZEN]	3	US	43° 33.75′	114° 24.83′	1772	*	*	Digital	USGS
HLJZ	Hailstone, UT	HLJ	EHZ	1	UU	40° 36.64′	111° 24.05′	1931	S13	Mtn Top	Digital	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	Mtn Top	Digital	USGS
HRU	Hogsback Ridge, UT	HRU	EHZ	1	UU	40° 47.67′	111° 53.14′	1620	Ranger	Mtn Top	Digital	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	Mtn Top	Digital	USGS
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	Mtn Top	Digital	Utah
IMU	Iron Mountain, UT	IMU	EHZ	1	UU	38° 37.99′	113° 09.50′	1833	L4C	Mtn Top	Digital	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
JVW	Jordan Valley Water District Well, Murray, UT	JVW	EN[ZEN]	3	UU	40° 37.95′	111° 54.46′	1315	Applied Mems	ANSS-130	Digital	ANSS
KEUT	Kanab Elementary School, UT	KEUT	EN[ZEN]	3	UU	37° 03.02′	112° 31.76′	1514	PA-23	SMART-24	Digital	Utah
KLJ	Keetley, UT	KLJ	EHZ	1	UU	40° 37.85′	111° 24.30′	1992	S13	Mtn Top	Digital	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	Mtn Top	Digital	Utah
LEVU	Levan, UT	LEVU	EHZ	1	UU	39° 30.39′	111° 48.88′	1996	L4C	Mtn Top	Digital	USGS
LGC	Lakeside Golf Course Bountiful, UT	LGC	EN[ZEN]	3	UU	40° 54.04′	111° 54.51′	1292	EpiSensor	K2	Digital	ANSS
LHUT	Little Humpy Peak, UT	LHUT	EHZ	1	UU	40° 53.49′	110° 59.78′	3084	S13	Mtn Top	Digital	Utah
LKC	Lee Kay Hunter Education Center Magna, UT	LKC	EN[ZEN]	3	UU	40° 43.62′	112° 02.14′	1289	EpiSensor	K2	Digital	ANSS
LKW	Lake, WY	LKWY	BH[ZEN]	3	US	44° 33.91′	110° 24.00′	2424	*	*	Digital	USGS
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	Mtn Top	Digital	USGS
MAB	Mapleton Ambulance Building Mapleton, UT	MAB	EN[ZEN]	3	UU	40° 07.85′	111° 34.67′	1440	EpiSensor	K2	Digital	ANSS
MBUT	Moab, UT	MBUT	EN[ZEN]	3	UU	38° 32.00′	109° 30.59′	1376	FBA23	Etna	Digital	Utah
MCID	Moose Creek, ID	MCID	EHZ	1	WY	44° 11.45′	111° 11.03′	2137	L4C	Mtn Top	Digital	USGS
MCU	Monte Cristo Peak, UT	MCU	EHZ	1	UU	41° 27.70′	111° 30.45′	2664	18300	Mtn Top	Digital	USGS
MGU	Meadow Brook Golf Course Salt Lake City, UT	MGU	EHZ	1	UU	40° 40.89′	111° 55.09′	1291	Ranger	Mtn Top	Digital	USGS
MHD	Mile High Drive, UT	MHD	EHZ	1	UU	40° 39.64′	111° 48.05′	1597	Ranger	Mtn Top	Digital	USGS
MID	Middle Canyon, UT	MID	EN[ZEN]	3	UU	40° 31.04′	112° 15.28′	1722	Applied Mems	ANSS-130	Digital	ANSS
MLI	Malad Range, ID	MLI	EHZ	1	UU	42° 01.61′	112° 07.53′	1896	L4C	Mtn Top	Digital	USGS
MMU	Miners Mountain, UT	MMU	EHZ	1	UU	38° 11.57′	111° 17.66′	2387	S13	Mtn Top	Digital	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	Mtn Top	Digital	USGS
MPU	Maple Canyon, UT	MPU	EN[ZEN]	3	UU	40° 00.93′	111° 38.00′	1909	EpiSensor	RT-130	Digital	ANSS
			HH[ZEN]	3					3ESP			USGS
MSU	Marysvale, UT	MSU	EHZ	1	UU	38° 30.74′	112° 10.63′	2105	18300	Mtn Top	Digital	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	Mtn Top	Digital	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	Mtn Top	Digital	USGS
NLU	North Lily Mine, UT	NLU	EN[ZEN]	3	UU	39° 57.29′	112° 04.50′	2036	Episensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			
NMU	North Mineral Mountain, UT	NMU	EH[ZEN]	4	UU	38° 30.99′	112° 51.00′	1853	S13	Mtn Top	Digital	Utah
			ELZ									
NOQ	North Oquirrh Mountains, UT	NOQ	EN[ZEN]	3	UU	40° 39.16′	112° 07.26′	1628	EpiSensor	RT-130	Digital	ANSS
			HH[ZEN]	3					Trillium 120			USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
NPI	North Pocatello, ID	NPI	EHZ	1	UU	42° 08.84′	112° 31.10′	1640	L4C	Mtn Top	Digital	USGS
OCP	Orem City Park, Orem, UT	OCP	EN[ZEN]	3	UU	40° 17.87′	111° 41.44′	1464	EpiSensor	K2	Digital	ANSS
OF2	Ogden Fire Station 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	Mtn Top	Digital	Utah
P03	Wild Steer, Paradox Basin, CO	PV03	EHZ	1	RE	38° 15.26′	108° 50.88′	1975	*	*	Analog	USBR
P15	Potato Mountain Paradox Basin, CO	PV15	EHZ	1	RE	38° 20.51′	108° 28.86′	2280	*	*	Analog	USBR
PCL	Plain City Landfill Plain City, UT	PCL	EN[ZEN]	3	UU	41° 18.60′	112° 06.00′	1290	Applied Mems	ANSS-130	Digital	ANSS
PCR	Park City Recreation Center Park City, UT	PCR	EN[ZEN]	3	UU	40° 39.25′	111° 30.19′	2100	EpiSensor	K2	Digital	ANSS
PEUT	Richfield, Pahvant Elementary School, UT	PEUT	EN[ZEN]	3	UU	38° 46.55′	112° 05.32′	1644	PA-23	SMART-24	Digital	Utah
PGAZ	Page, AZ	PGA	EHZ	1	AR	36° 54.34′	111° 16.86′	1272	*	*	Analog	NAU
PGC	Pleasant Grove Creek, UT	PGC	EN[ZEN]	3	UU	40° 22.71′	111° 42.62′	1707	EpiSensor	K2	Digital	ANSS
PKCU	Pink Cliffs, UT	PCUT	HH[ZEN]	3	UU	37° 26.63′	112° 18.66′	2834	Trillium 120	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
PNSU	Preston Nutter Ranch, Sunnyside, UT	P18A	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	INEEL
PTU	Portage, UT	PTU	EHZ	1	UU	41° 55.76′	112° 19.48′	2192	L4C	Mtn Top	Digital	USGS
Q16A	Castle Valley Ranch, Emery, UT	Q16A	HH[ZEN]	3	UU	38° 55.06′	111° 10.30′	1912	STS-2	Q330	Digital	Utah
			EN[ZEN]	3					EpiSensor			
QLMZ	Earthquake Lake, MT	QLMT	EHZ	1	MB	44° 49.84′	111° 25.80′	2064	*	*	Analog	MBMT
RBUZ	Red Butte Canyon, UT	RBU	EHZ	1	UU	40° 46.85′	111° 48.50′	1676	L4C	Mtn Top	Digital	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
RCJZ	Ross Creek, UT	RCJ	EHZ	1	UU	40° 39.51′	111° 26.36′	2090	S13	Mtn Top	Digital	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	Mtn Top	Digital	Utah
RPF	Rose Park Fire Station, Salt Lake City, UT	RPF	EN[ZEN]	3	UU	40° 46.52′	111° 55.22′	1287	Applied Mems	ANSS-130	Digital	ANSS
RRI2	Red Ridge, ID	RRI2	BH[ZEN]	3	IW	43° 20.84′	111° 19.20′	2547	3ESP	RT-130	Digital	ANSS
RSUT	Red Spur, UT	RSUT	EHZ	1	UU	41° 38.31′	111° 25.90′	2682	S13	Mtn Top	Digital	USGS
SAIU	South Antelope Island, UT	SAIU	EHZ	1	UU	40° 51.29′	112° 10.89′	1384	L4C	Mtn Top	Digital	USGS
SCC	Salt Lake Community College	SCC	EN[ZEN]	3	UU	40° 40.49′	111° 56.37′	1306	EpiSensor	K2	Digital	ANSS
SCS	Syracuse City Cemetery Shop Syracuse, UT	SCS	EN[ZEN]	3	UU	41° 05.73′	112° 02.81′	1321	EpiSensor	K2	Digital	ANSS
SCUT	Santa Clara, UT	SCUT	EN[ZEN]	3	UU	37° 07.69′	113° 38.68′	837	EpiSensor	Etna	Digital	Utah
SCY	Salem City Yard, Salem, UT	SCY	EN[ZEN]	3	UU	40° 03.47′	111° 41.14′	1386	Applied Mems	ANSS-130	Digital	ANSS
SGSU	St. George Fire Station #4, UT	SCSU	EN[ZEN]	3	UU	38° 16.61′	112° 38.42′	1799	PA-23	SMART-24	Digital	Utah
SGU	Sterling, UT	SGU	EHZ	1	UU	39° 10.94′	111° 38.68′	2357	18300	Mtn Top	Digital	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	Mtn Top	Digital	Utah
SNUT	Stanbury North, UT	SNUT	EHZ	1	UU	40° 53.10′	112° 30.52′	1652	18300	Mtn Top	Digital	USGS
SPR	Wildlife Resource Center Springville, UT	SPR	EN[ZEN]	3	UU	40° 10.94′	111° 36.71′	1379	EpiSensor	K2	Digital	ANSS
SPS	Stansbury Park Sewage Lagoon Stansbury Park, UT	SPS	EN[ZEN]	3	UU	40° 38.97′	112° 18.95′	1293	Applied Mems	ANSS-130	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
SPU	South Promontory Point, UT	SPU	EN[ZEN]	3	UU	41° 18.52′	112° 26.95′	2086	EpiSensor	RT-130	Digital	ANSS
			HH[ZEN]	3					3ESP			
SRU	San Rafael Swell, UT	SRU	EHZ	1	UU	39° 06.65′	110° 31.43′	1804	S13	Mtn Top	Digital	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	Mtn Top	Digital	USGS
SZCU	Shurtz Canyon, UT	SZCU	HH[ZEN]	3	UU	37° 35.72′	113° 05.25′	2026	3T	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
TCRU	Three Creeks Reservoir, UT	TCRU	HH[ZEN]	3	UU	38° 36.57′	112° 26.83′	2293	Trillium 120	SMART-24	Digital	Utah
			EN[ZEN]	3					PA-23			
TCU	Toone Canyon, UT	TCU	EN[ZEN]	3	UU	41° 07.04′	111° 24.47′	2269	EpiSensor	72A-08	Digital	ANSS
			HH[ZEN]	3					3ESP			
TCUT	Toone Canyon, UT	TCUT	EHZ	1	UU	41° 07.07′	111° 24.51′	2320	L4C	Mtn Top	Digital	USGS
TMI	Taylor Mountain, ID	TMI	EHZ	1	IE	43° 18.30′	111° 55.08′	2179	*	*	Digital	INEEL
TMU	Trail Mountain, UT	TMU	HH[ZEN]	3	UU	39° 17.79′	111° 12.49′	2731	40T	72A-08	Digital	Utah, ANSS
			EN[ZEN]	*3*					EpiSensor			
TPMZ	Teepe Creek, MT	TPMT	EHZ	1	MB	44° 43.79′	111° 39.94′	2518	*	*	Analog	MBMT
TPNV	Topopah Spring, NV	TPNV	BH[ZEN]	3	US	36° 56.93′	116° 14.97′	1600	*	*	Digital	USGS
TPU	Thanksgiving Point, Lehi, UT	TPU	EN[ZEN]	3	UU	40° 25.81′	111° 54.13′	1383	EpiSensor	K2	Digital	ANSS
TRC	Troy Canyon, NV	TRC	BHZ	1	NN	38° 20.98′	115° 35.11′	1815	*	*	Digital	UNR
TRS	Tooele County Radio Shop, Tooele, UT	TRS	EN[ZEN]	3	UU	40° 30.83′	112° 18.63′	1568	EpiSensor	K2	Digital	ANSS
TUC	Tucson, AZ	TUC	BH[ZEN]	3	US	32° 18.58′	110°47.05′	906	*	*	Digital	USGS
UHP	Utah Highway Patrol Farmington, UT	UHP	EN[ZEN]	3	UU	40° 59.47′	111° 53.88′	1295	EpiSensor	K2	Digital	ANSS
UTH	Uintah Town Hall, Uintah, UT	UTH	EN[ZEN]	3	UU	41° 08.65′	111° 55.52′	1389	EpiSensor	K2	Digital	ANSS
UUE	University of Utah EMCB Bldg. Salt Lake City, UT	UUE	EN[ZEN]	3	UU	40° 46.09′	111° 50.77′	1449	EpiSensor	K2	Digital	ANSS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
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
VES	Valley Elementary School, Huntsville, UT	VES	EN[ZEN]	3	UU	41° 15.72′	111° 46.20′	1501	Applied Mems	ANSS-130	Digital	ANSS
VNL	Vernal, UT	VNL	EN[ZEN]	3	UU	40° 27.48′	109° 32.89′	1648	FBA23	Etna	Digital	Utah
WBC	Weber Canyon, UT	WBC	EN[ZEN]	3	UU	41° 08.38′	111° 54.05′	1602	EpiSensor	K2	Digital	ANSS
WCF	Wellsville Fire Station, Wellsville, UT	WCF	EN[ZEN]	3	UU	41° 38.37′	111° 55.94′	1387	Applied Mems	ANSS-130	Digital	ANSS
WCN	Washoe, NV	WCN	HHZ	1	NN	39° 18.10′	119° 45.38′	1500	*	*	Digital	UNR
WCO	Washington City Office Building, UT	WCO	EN[ZEN]	3	UU	37° 07.91′	113° 30.56′	837	EpiSensor	Etna	Digital	Utah
WCU	Willow Creek, UT	WCU	EHZ	1	UU	38° 57.88′	112° 05.44′	2673	18300	Mtn Top	Digital	USGS
WDO	Saint George, Washington County School District Office, UT	WDO	EN[ZEN]	3	UU	37° 06.46′	113° 35.19′	831	PA-23	SMART-24	Digital	Utah
WES	Westminster College Salt Lake City, UT	WES	EN[ZEN]	3	UU	40° 43.97′	111° 51.26′	1341	EpiSensor	K2	Digital	ANSS
WHS	West High School	WHS	EN[ZEN]	3	UU	40° 46.51′	111° 53.93′	1301	EpiSensor	K2	Digital	ANSS
WMUT	West Mountain, UT	WMUT	EHZ	1	UU	40° 04.60′	111° 50.00′	1981	L4C	Mtn Top	Digital	USGS
WRP	Water Reclamation Plant Salt Lake City, UT	WRP	EN[ZEN]	3	UU	40° 48.82′	111° 55.87′	1286	Applied Mems	ANSS-130	Digital	ANSS
WTU	Western Traverse Mountains, UT	WTU	EH[ZEN]	4	UU	40° 27.29′	111° 57.21′	1552	S13	Mtn Top	Digital	USGS
			ELZ									
			EN[ZEN]	3					Applied Mems	ANSS-130	Digital	ANSS
WUAZ	Wupatki, AZ	WUAZ	BH[ZEN]	3	US	35° 31.01′	111° 22.43′	1592	*	*	Digital	USGS
WVUT	Wellsville, UT	WVUT	EHZ	1	UU	41° 36.61′	111° 57.55′	1828	L4C	Mtn Top	Digital	USGS
YDC	Denny Creek, MT	YDC	EHZ	1	WY	44° 42.51′	111° 14.60′	2025	L4C	Mtn Top	Digital	USGS
YFT	Old Faithful (YNP), WY	YFT	HH[ZEN]	3	WY	44° 27.05′	110° 50.24′	2292	40T	72A-07	Digital	USGS
			EHZ	1					L4C	None	None	
YGC	Grayling Creek, MT	YGC	EHZ	1	WY	44° 47.77′	111° 06.45′	2075	L4C	Mtn Top	Digital	USGS
YHB	Horse Butte, MT	YHB	EHZ	1	WY	44° 45.07′	111° 11.71′	2157	L4C	Mtn Top	Digital	USGS
			HH[ZEN]	3					40T	ANSS-130	Digital	
YHH	Holmes Hill (YNP), WY	YHH	EH[ZEN]	3	WY	44° 47.30′	110° 51.03′	2717	S13	Mtn Top	Digital	USGS

UURSN Code	Location	SEED Station	SEED Channel	No. of Channels	Network Code	Latitude	Longitude	Elevation (meters)	Sensor	Digitizer	Telemetry	Sponsor
YJCZ	Joseph′s Coat (YNP), WY	YJC	EHZ	1	WY	44° 45.33′	110° 20.95′	2684	S13	Mtn Top	Digital	USGS
YLAZ	Lake Butte (YNP), WY	YLA	EHZ	1	WY	44° 30.76′	110° 16.12′	2580	L4C	Mtn Top	Digital	USGS
YLT	Little Thumb Creek (YNP), WY	YLT	EHZ	1	WY	44° 26.25′	110° 35.28′	2439	L4C	Mtn Top	Digital	USGS
YMC	Maple Creek (YNP), WY	YMC	EHZ	1	WY	44° 45.53′	111° 00.41′	2073	S13	Mtn Top	Digital	USGS
YML	Mary Lake (YNP), WY	YML	EHZ	1	WY	44° 36.20′	110° 38.63′	2653	L4C	Mtn Top	Digital	USGS
YMP	Mirror Plateau (YNP), WY	YMP	EH[ZEN]	3	WY	44° 44.38′	110° 09.40′	2774	S13	Mtn Top	Digital	USGS
YMR	Madison River (YNP), WY	YMR	HH[ZEN]	3	WY	44° 40.12′	110° 57.90′	2149	40T	72A-07	Digital	USGS
YMS	Mount Sheridan (YNP), WY	YMS	EHZ	1	WY	44° 15.84′	110° 31.67′	3106	L4C	Mtn Top	Digital	USGS
YMV	Mammoth Vault (YNP), WY	YMV	EHZ	1	WY	44° 58.42′	110° 41.33′	1829	L4C	Mtn Top	Digital	USGS
YNR	Norris Junction (YNP), WY	YNR	HH[ZEN]	3	WY	44° 42.93′	110° 40.75′	2336	40T	RT-130	Digital	USGS
YPC	Pelican Cone (YNP), WY	YPC	EHZ	1	WY	44° 38.88′	110° 11.55′	2932	L4C	Mtn Top	Digital	USGS
YPK	Parker Peak (YNP), WY	YPK	EH[ZEN]	3	WY	44° 43.91′	109° 55.32′	2897	L4C	Mtn Top	Digital	USGS
YPM	Purple Mountain (YNP), WY	YPM	EHZ	1	WY	44° 39.43′	110° 52.12′	2582	L4C	Mtn Top	Digital	USGS
YPP	Pitchstone Plateau (YNP), WY	YPP	EHZ	1	WY	44° 16.26′	110° 48.27′	2707	S13	Mtn Top	Digital	USGS
YSB	Soda Butte (YNP), WY	YSB	EHZ	1	WY	44° 53.04′	110° 09.06′	2072	L4C	Mtn Top	Digital	USGS
YTP	The Promontory (YNP), WY	YTP	EHZ	1	WY	44° 23.51′	110° 17.10′	2384	L4	Mtn Top	Digital	USGS
YUF	Upper Falls (YNP), WY	YUF	HH[ZEN]	3	WY	44° 42.76′	110° 30.71′	2394	3ESP	ANSS-130	Digital	USGS
YWB	West Boundary (YNP), WY	YWB	EHZ	1	WY	44° 36.35′	111° 06.05′	2310	L4C	Mtn Top	Digital	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: 652 data channels from 247 stations were being recorded at the end of this report period (excluding temporary TA stations)

EXPLANATION OF TABLE

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

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

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

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

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

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

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

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

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

Number of Channels: Total number of waveform channels recorded.

Network Code: The FDSN (Federation of Digital Seismographic Networks) registered network code. See <<http://www.iris.edu/stations/networks.txt>> for information about registered seismograph network codes. Network codes referenced in this table:

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

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

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

Elevation: Sensor altitude in meters above sea level.

Sensor	**Description**
L4, L4C	Mark Products short-period seismometer
S13, 18300	Geotech S13 or 18300 short-period seismometer
Ranger	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 accelerometer
EpiSensor	Kinemetrics accelerometer
Applied Mems	Applied Mems accelerometer
PA-23	Geotech PA-23
Trillium 120	Nanometrics Trillium 120 broadband seismometer
Trillium 240	Nanometrics Trillium 240 broadband seismometer

Digitizer	**Description**
Masscomp	Concurrent Computer Corporation (formerly Mtn Top) 7200C computer (with 12-bit digitizer)
K2	Kinemetrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinemetrics Altus Series Etna (19-bit resolution field digitizer)
72A-07	Refraction Technology (REF TEK) model 72A-07 (24-bit field digitizer)
72A-08	Refraction Technology (REF TEK) model 72A-08 (24-bit field digitizer)
ANSS-130	Refraction Technology (REF TEK) model 130-ANSS/02 (24-bit resolution field digitizer)
RT-130	Refraction Technology (REF TEK) model RT-130 (24-bit resolution field digitizer)
Q330	Quanterra, Inc (24-bit resolution field digitizer)
SMART-24	Geotech SMART-24 (24-bit resolution field digitizer)
Mtn Top	PSN-ADC-SERIAL version III (16-bit resolution field digitizer)

Telemetry	Description
Analog	Data transmission is analog along part of the transmission pathway
Digital	Data are converted to digital form at the station site
None	On-site recording system
Sponsor (or Operator for stations marked by * in preceding columns)	
USGS	U.S. Geological Survey
Utah	State of Utah
ANSS	Advanced National Seismic System
INEEL	Idaho National Engineering and Environmental Laboratory
USBR	U.S. Bureau of Reclamation
LLNL	Lawrence Livermore National Laboratory
Sandia	Sandia National Laboratory
BYU-I	Brigham Young University, Idaho (formerly Ricks College)
MBMT	Montana Bureau of Mines and Geology
NSMP	National Strong Motion Project, U.S. Geological Survey
UNR	University of Nevada, Reno

NETWORK CHANGES DURING APRIL 1-JUNE 30, 2010

April 16, 2010	TA adopted stations Q16A, P17A, and P18A were renamed CVRU, BRPU, and PNSU, respectively.
May 1, 2010	Masscomp triggering was replaced by Earthworm (EW) Carltrig module. Starting with this date, the data from the short-period (SP) stations digitized at mountain tops, with the 16-bit A/D digitizer PSN-ADC-SERIA version III, are used in EW triggering. With the exception of stations ARUT, DWU, FLU, ICU, IMU, LEVU, NMU, SGU, SNO, and WCU (no analog data path) all the other UUSS SP analog stations now have two data paths (1) analog and (2) digital. In Table 3, under Telemetry, only the digital telemetry is included for these SP stations.
May 14, 2010	Masscomp A/D digitizer and the triggering system were decommissioned.
Note	During the report period, none of the temporary Transportable Array (TA) stations of USArray, a component of the National Science Foundation's EarthScope experiment, were any longer operating in the Utah region. For the TA stations that have been decommissioned, detailed station data can still be accessed, but under the "Decommissioned" menu tab. Information about active TA stations can be obtained online at http://anf.ucsd.edu/stations.php.