

EARTHQUAKE ACTIVITY IN THE YELLOWSTONE REGION

Preliminary Epicenters

January 1 – March 31, 2014

Prepared by the University of Utah Seismograph Stations and funded by
the U.S. Geological Survey (Cooperative Agreement No. G13AC00018)

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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 Yellowstone region (lat. 44° 00' – 45° 10' N, long. 109° 45' – 111° 30' W). The computer program HYPOINVERSE-2000 (F. W. Klein, 2012, U.S. Geological Survey Open-File Report 02-171 revised) was used to process the earthquake data. This report also includes maps and a table of operating seismograph stations in the University of Utah's Yellowstone seismic network (Figure 2, Table 3).

The earthquake listing in Table 2 is estimated to be systematically complete above magnitude 1.5 within Yellowstone. *These data are preliminary—both the locations and magnitudes in this table are subject to revision.*

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

- Date (yymmdd) and origin time in Universal Coordinated Time (UTC). To convert to local time, subtract seven hours for Mountain Standard Time (MST) and six hours for Mountain Daylight Time (MDT). During the report period, local time was MST from January 1st through March 9th and MDT from March 9th through March 31st.
- Earthquake location coordinates in degrees and minutes of north latitude and west longitude, and depth in kilometers below sea level. Note that prior to October 1, 2012 the earthquake depths in these quarterly reports were computed relative to a datum of 2000 m above sea level.
- "*" indicates poor depth resolution: no recording stations within 10 km or twice the depth.
- MAG, the computed Richter local magnitude (M_L) for each earthquake. "W" indicates peak amplitude measurements from Wood-Anderson records were used. Otherwise, the estimate is calculated from signal durations and is more correctly identified as coda magnitude (M_C). The notation "--" indicates that a reliable magnitude estimate could not be made.
- NO, the number of P and S readings used in the solution.
- GAP, the largest azimuthal separation in degrees between recording stations used in the solution.
- DMN, the epicentral distance in kilometers to the closest station.
- RMS, the weighted root-mean-square of the travel-time residuals in seconds:

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

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

EARTHQUAKE ACTIVITY IN THE YELLOWSTONE REGION
January 1 – March 31, 2014

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During the three-month period January 1 through March 31, 2014, the University of Utah Seismograph Stations (UUSS) located 745 earthquakes within the Yellowstone region (Figure 1). The total includes one earthquake in the magnitude 4 range, eleven earthquakes in the magnitude 3 range and 83 earthquakes in the magnitude 2 range. The largest event to occur during this period was a magnitude 4.8 earthquake on March 30th. This event was part of an earthquake swarm near the Norris Geyser Basin and was the largest earthquake to be recorded in Yellowstone in nearly 30 years. 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 2014 that were felt in the Yellowstone region). Additional information on earthquakes within the Yellowstone 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>.

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

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

Earthquakes of Magnitude 3.0 or Larger

M _L 3.5	January 6	02:14 MST	4 mi NW of Norris Geyser Basin, YNP
M _L 3.4	January 11	18:46 MST	5 mi NNW of Canyon Junction, YNP
M _L 3.5	February 11	16:03 MST	5 mi WNW of Norris Geyser Basin, YNP
M _L 3.0	February 15	03:23 MST	8 mi N of West Yellowstone, MT
M _L 3.0	March 26	13:14 MDT	6 mi NW of Norris Geyser Basin, YNP
M _L 3.5	March 26	17:59 MDT	6 mi NW of Norris Geyser Basin, YNP
M _L 3.0	March 30	00:23 MDT	4 mi NNE of Norris Geyser Basin, YNP
M _L 3.4	March 30	04:36 MDT	3 mi NNE of Norris Geyser Basin, YNP
M _L 4.8	March 30	06:34 MDT	3 mi NNE of Norris Geyser Basin, YNP
M _L 3.6	March 30	07:30 MDT	3 mi NNE of Norris Geyser Basin, YNP
M _L 3.4	March 30	09:07 MDT	4 mi N of Norris Geyser Basin, YNP
M _L 3.7	March 30	09:12 MDT	4 mi NNW of Norris Geyser Basin, YNP

Notable Swarm Seismicity

During the report period, there were eleven earthquake swarms in the Yellowstone region. For reporting purposes, we use the Mogi definition [Mogi, 1963] of a swarm and require each swarm to have ten or more earthquakes. Note that typically, around 50% of Yellowstone seismicity occurs as swarm seismicity [Farrell et al., 2009].

- A. A swarm of 16 earthquakes ($0.2 \leq M \leq 3.5$) occurred about 5 miles NW of Norris Geyser Basin, YNP on January 6th – 9th.
- B. A swarm of 48 earthquakes ($-0.2 \leq M \leq 2.4$) occurred about 5 miles NW of Norris Geyser Basin, YNP on January 18th-23rd.
- C. A swarm of 26 earthquakes ($0.9 \leq M \leq 2.4$) occurred about 5 miles NNW of Canyon Junction, YNP on January 28th - February 6th.
- D. A swarm of 18 earthquakes ($-0.4 \leq M \leq 2.7$) occurred about 4 miles WNW of Norris Geyser Basin, YNP on January 31st – February 3rd.
- E. A swarm of 142 earthquakes ($-0.5 \leq M \leq 3.5$) occurred about 5 miles WNW of Norris Geyser Basin, YNP on February 7th – February 20th.
- F. A swarm of 16 earthquakes ($0.1 \leq M \leq 2.2$) occurred about 3 miles WSW of Canyon Junction, YNP on February 13th – 15th.
- G. A swarm of 50 earthquakes ($-0.5 \leq M \leq 2.9$) occurred about 4 miles NNW of Norris Geyser Basin, YNP on March 1st - 11th.
- H. A swarm of 36 earthquakes ($-0.5 \leq M \leq 2.3$) occurred about 5 miles NW of Norris Geyser Basin, YNP on March 13th - 24th.

- I. A swarm of 22 earthquakes ($-0.2 \leq M \leq 3.5$) occurred about 7 miles NNW of Norris Geyser Basin, YNP on March 26th – 30th.
- J. A swarm of 124 earthquakes ($-0.1 \leq M \leq 4.8$) occurred about 4 miles NNE of Norris Geyser Basin, YNP on March 27th – March 31st.
- K. A swarm of 13 earthquakes ($0.2 \leq M \leq 1.9$) occurred about 2 miles SSE of Norris Geyser Basin, YNP on March 30th.

These eleven swarms are labeled in Figure 1.

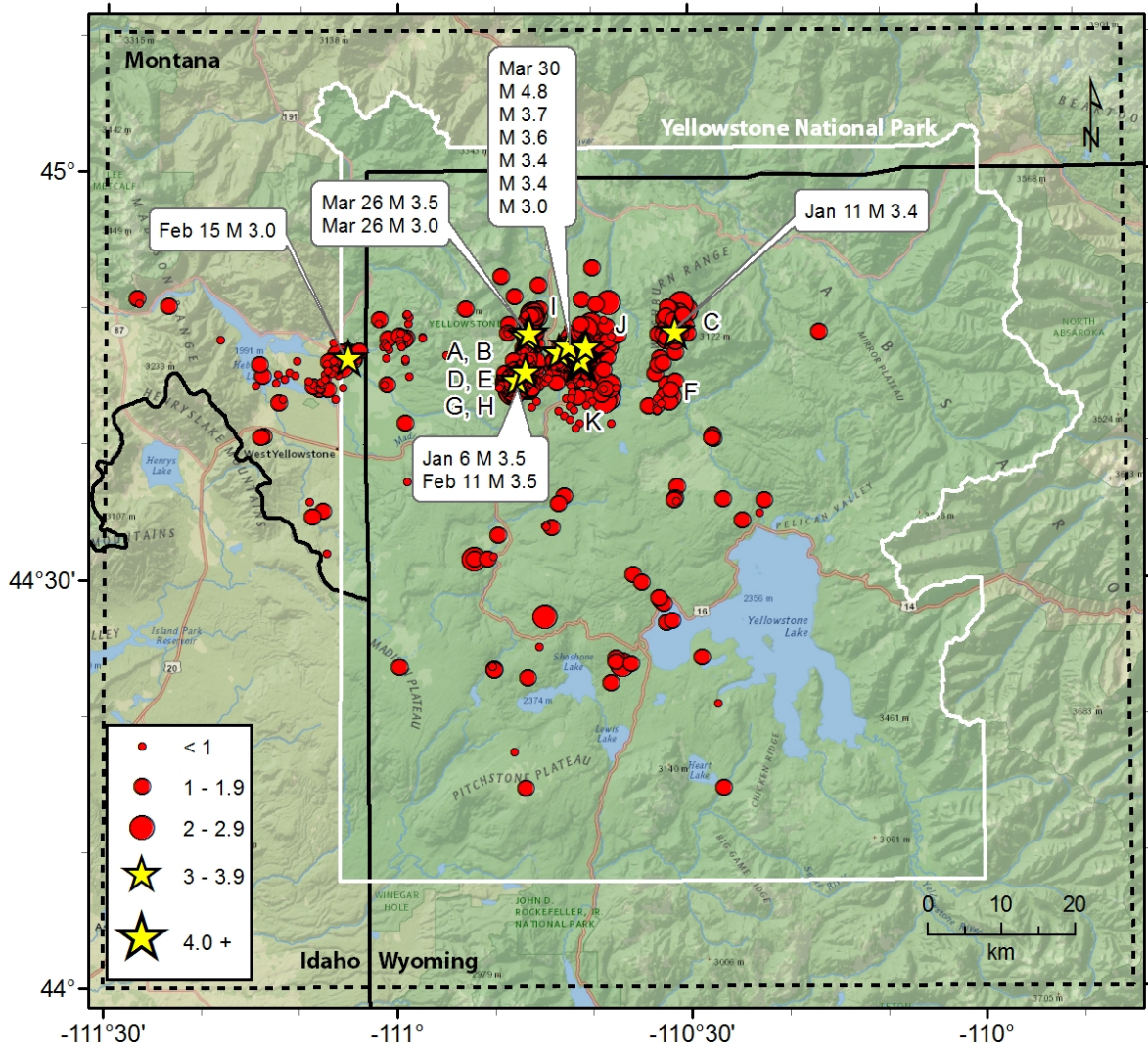


Figure 1. Earthquake epicenters located by the University of Utah Seismograph Stations. Earthquakes of magnitude 3.0 and larger are depicted as yellow stars. Earthquake swarms labeled A-K are discussed in the text.

Table 1
EARTHQUAKES FELT IN THE YELLOWSTONE REGION
January 1, 2014 to March 31, 2014

Date	Time†	Felt Information‡	Latitude	Longitude	Magnitude§
January 11 January 12	18:46 MST 01:46 UTC	Yellowstone. Felt (III) at Yellowstone National Park, WY.	44° 48.37'	110° 31.37'	M _L 3.4
March 30	06:34 MDT 12:34 UTC	Yellowstone. Felt (III) at West Yellowstone, MT.	44° 46.33'	110° 41.08'	M _W 4.8
March 30	09:12 MDT 15:12 UTC	Yellowstone. Felt (IV) at West Yellowstone, MT.	44° 46.83'	110° 43.31'	M _L 3.7

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

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

‡ *CIIM* indicates the availability of a Community Internet Intensity Map

(<http://earthquake.usgs.gov/earthquakes/dyfi/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.

Yellowstone Seismic Network

March 31, 2014

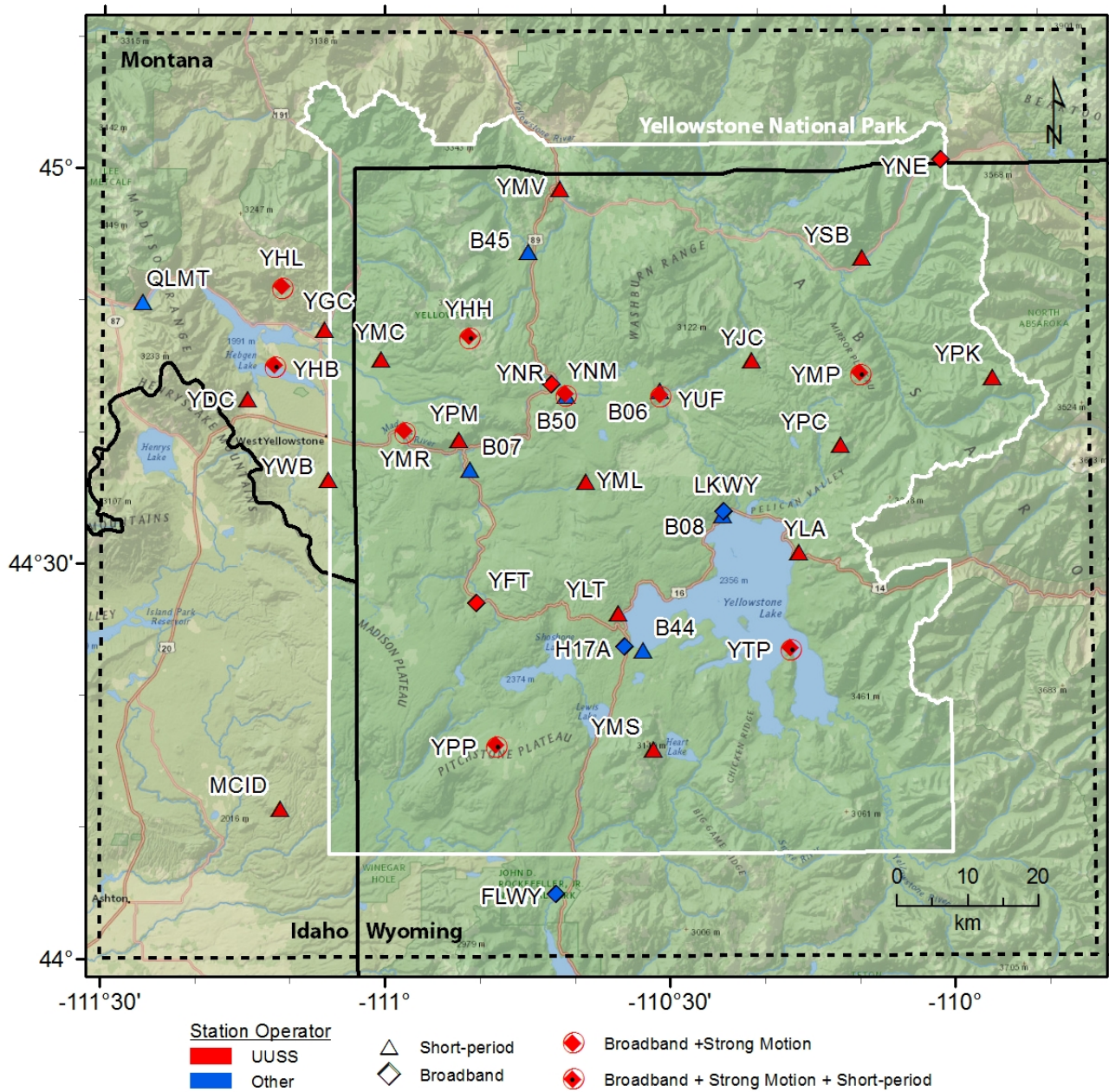


Figure 2

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140101	03:11:35.00	44°44.53'	111°12.56'	11.4	0.7	14	86	1	0.15
140101	10:26:46.01	44°36.19'	110°42.88'	7.4	1.8	13	75	6	0.21
140101	10:30:06.85	44°35.67'	110°43.46'	4.6	1.3W	14	76	7	0.19
140102	02:10:31.24	44°43.33'	111°06.42'	12.4	0.6	10	77	8	0.06
140102	05:31:50.18	44°25.19'	110°45.51'	3.7	0.8	7	107	7	0.11
140104	12:53:55.71	44°50.66'	110°40.98'	7.8	1.7W	15	71	7	0.15
140105	10:32:54.45	44°45.00'	110°58.83'	1.5	0.6	8	129	2	0.06
140105	10:52:47.53	44°46.38'	111°01.20'	4.1	0.6	18	114	2	0.10
140106	09:00:11.85	44°44.66'	110°47.16'	6.5	2.6W	20	81	7	0.17
140106	09:00:52.77	44°44.58'	110°47.47'	4.5	0.5	11	139	7	0.31
140106	09:13:07.98	44°45.38'	110°46.66'	7.1	--	6	178	7	0.10
140106	09:13:27.00	44°45.25'	110°46.81'	8.9	0.8W	10	173	7	0.11
140106	09:14:12.15	44°45.46'	110°46.76'	9.5	3.5W	32	90	7	0.17
140106	09:25:23.77	44°44.53'	110°46.90'	5.8	1.1W	11	151	6	0.15
140106	09:32:24.59	44°44.29'	110°46.55'	5.8	0.9W	11	148	6	0.15
140106	09:58:47.02	44°45.55'	110°46.34'	10.0	0.9W	14	185	7	0.08
140106	09:59:15.87	44°45.20'	110°46.78'	8.3	1.8W	18	155	7	0.13
140106	11:52:31.39	44°45.11'	110°47.00'	7.6	1.6W	18	85	7	0.17
140106	12:49:25.88	44°47.03'	110°46.22'	13.4	0.8W	8	221	6	0.09
140106	12:54:03.78	44°44.70'	110°47.11'	6.9	1.6W	20	81	7	0.18
140106	23:20:38.48	44°47.95'	110°59.84'	8.4	1.1W	16	119	4	0.11
140106	23:54:33.52	44°47.69'	110°59.83'	9.5	0.4	14	160	4	0.08
140108	02:15:08.99	44°44.47'	110°47.49'	2.0	0.3W	8	144	7	0.15
140108	02:15:28.34	44°44.62'	110°47.82'	2.4	0.6W	8	144	7	0.11
140108	03:27:11.78	44°45.85'	111°14.21'	13.8	1.4W	22	73	4	0.16
140108	10:13:22.97	44°45.22'	111°06.81'	7.6	-0.1	10	111	7	0.15
140108	10:33:42.29	44°45.77'	111°06.55'	11.9	1.3W	22	79	4	0.09
140108	10:34:12.23	44°45.77'	111°06.72'	9.9	0.9W	20	76	4	0.13
140108	11:19:08.77	44°45.47'	111°07.20'	7.5	-0.1	13	74	4	0.10
140108	11:44:03.75	44°45.55'	111°06.53'	6.7	0.1	15	87	4	0.13
140108	11:44:10.63	44°44.83'	111°07.33'	5.5	-0.1	9	122	6	0.13
140108	11:44:42.21	44°44.37'	111°01.39'	6.8	0.0	15	76	3	0.10
140108	17:59:56.76	44°45.65'	111°06.53'	7.7	0.4	18	79	4	0.14
140109	00:46:41.17	44°44.38'	111°01.06'	8.1	1.3W	15	68	2	0.13
140109	02:45:57.63	44°28.30'	110°32.69'	4.8	1.5	10	132	5	0.09
140109	03:20:12.37	44°28.73'	110°33.16'	5.0	1.3	8	124	5	0.08
140109	07:22:05.89	44°35.92'	110°26.56'	4.6	1.3W	6	159	5	0.03
140109	17:25:55.66	44°44.05'	110°48.51'	3.3	0.2	6	129	7	0.06
140109	17:26:08.92	44°47.50'	111°01.40'	4.7	0.2	14	153	4	0.09
140109	18:13:27.40	44°44.58'	110°47.69'	8.6	0.9W	10	145	7	0.09
140110	07:45:51.54	44°49.68'	110°31.66'	6.8	1.8W	9	155	12	0.15
140111	05:24:35.81	44°48.79'	110°48.51'	7.3	1.0W	13	109	4	0.19
140111	09:31:23.63	44°46.79'	111°05.24'	9.9	0.6W	10	145	7	0.07
140111	14:35:36.03	44°24.38'	110°28.85'	2.4	1.1	9	145	5	0.10
140112	01:46:59.17	44°48.37'	110°31.37'	8.7	3.4W	35	95	10	0.16

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140112	01:51:03.12	44°47.79'	110°31.53'	7.4	2.0W	20	104	9	0.13
140112	02:49:29.31	44°47.94'	110°31.62'	7.1	1.8W	14	105	9	0.11
140112	06:19:29.37	44°47.88'	110°32.11'	3.2	2.0W	12	138	9	0.09
140112	08:27:40.77	44°47.85'	110°32.12'	2.3	2.0W	12	138	9	0.19
140115	06:33:19.81	44°48.69'	110°30.28'	6.4	1.8W	13	116	10	0.14
140115	07:43:07.67	44°46.76'	110°31.40'	6.1	1.9W	9	131	7	0.13
140116	00:29:50.91	44°46.98'	111°00.91'	2.7	0.6	10	147	3	0.14
140116	00:48:50.76	44°44.03'	111°08.12'	12.3	1.7W	23	68	5	0.15
140116	00:49:58.81	44°44.03'	111°07.89'	10.5	0.7	16	69	5	0.15
140116	12:23:57.39	44°48.60'	110°31.46'	7.8	1.9W	20	96	10	0.16
140116	12:23:57.48	44°48.15'	110°31.60'	7.3	1.9W	23	93	9	0.19
140116	16:20:28.30	44°48.64'	110°30.85'	7.4	1.9W	16	59	10	0.26
140116	17:12:42.55	44°48.16'	110°32.07'	7.2	1.8W	25	105	10	0.19
140116	17:13:42.68	44°47.94'	110°31.29'	7.7	1.2W	15	94	9	0.14
140116	18:01:10.48	44°45.85'	110°33.14'	2.1	1.5W	7	266	6	0.02
140116	18:01:22.11	44°45.20'	110°33.46'	1.6	1.5	7	250	5	0.05
140116	22:29:43.91	44°44.12'	111°07.99'	10.9	0.2	12	92	5	0.12
140118	10:12:04.21	44°44.79'	110°46.39'	8.3	0.8W	9	166	8	0.09
140118	11:01:34.07	44°44.37'	111°08.70'	12.0	0.8W	16	89	4	0.10
140118	11:05:07.10	44°44.25'	111°08.64'	12.3	1.2W	21	65	4	0.13
140118	11:05:26.59	44°44.55'	111°08.03'	11.0	0.0	15	63	5	0.07
140118	12:14:44.42	44°47.68'	110°59.32'	7.8	1.2W	21	116	4	0.12
140118	12:29:46.34	44°47.40'	110°59.40'	6.3	0.8	17	156	4	0.17
140118	12:56:04.64	44°44.63'	111°07.94'	9.5	-0.1	15	95	5	0.09
140118	15:00:33.85	44°47.83'	110°59.15'	7.4	1.5W	27	100	5	0.15
140119	07:16:29.02	44°48.13'	110°30.04'	8.1	1.6W	12	92	9	0.20
140119	08:02:42.87	44°43.88'	110°46.39'	4.9	1.3W	17	138	6	0.15
140119	14:10:58.94	44°47.47'	110°59.58'	5.7	0.5	14	157	4	0.12
140120	04:26:05.07	44°48.47'	110°32.38'	2.1	1.8W	13	205	10	0.19
140120	10:43:59.77	44°44.69'	110°46.78'	8.1	1.5W	17	146	6	0.12
140121	06:00:08.42	44°43.91'	110°48.33'	8.0	2.4W	24	75	7	0.13
140121	06:39:47.42	44°43.54'	110°47.90'	6.7	1.5W	15	166	8	0.11
140121	06:44:03.33	44°43.85'	110°48.19'	5.8	0.9	7	129	7	0.06
140121	06:44:17.55	44°44.99'	111°13.94'	11.9	1.6W	9	112	3	0.13
140121	07:21:21.31	44°44.23'	110°48.21'	7.8	0.9W	13	128	7	0.13
140121	07:45:43.04	44°43.78'	110°48.28'	7.2	1.1W	19	87	7	0.15
140121	07:50:33.86	44°43.93'	110°48.27'	6.7	1.4W	23	75	7	0.15
140121	08:16:31.12	44°43.83'	110°48.19'	7.4	1.6W	26	75	7	0.15
140121	09:16:20.84	44°43.76'	110°48.23'	6.9	1.6W	20	74	8	0.13
140121	09:45:08.63	44°43.88'	110°48.27'	5.9	0.8	9	122	7	0.12
140121	09:45:16.58	44°44.39'	110°49.35'	11.8	0.3	9	120	6	0.24
140121	12:57:04.01	44°44.10'	110°48.06'	8.7	0.9W	13	129	7	0.10
140121	13:43:33.95	44°43.85'	110°48.41'	8.3	1.6W	23	74	7	0.15
140121	14:47:21.03	44°43.69'	110°47.80'	4.2	0.3	7	130	8	0.14
140121	14:52:23.88	44°43.67'	110°48.04'	7.9	1.7W	25	74	8	0.15

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140121	14:55:42.51	44°44.04'	110°48.15'	7.4	1.0W	15	126	7	0.14
140121	15:23:07.68	44°44.15'	110°48.35'	6.8	1.3W	13	83	7	0.09
140121	15:59:02.75	44°43.96'	110°48.13'	8.4	0.6	10	126	7	0.09
140121	16:32:06.81	44°43.75'	110°47.95'	7.2	1.8W	25	75	8	0.16
140121	17:15:43.61	44°46.28'	110°46.51'	10.5	1.0W	12	201	6	0.08
140121	17:16:46.33	44°44.24'	110°48.32'	7.4	0.9W	13	135	7	0.14
140121	17:17:52.94	44°44.42'	110°48.34'	6.2	-0.2	8	129	6	0.15
140121	17:18:16.78	44°44.12'	110°48.75'	6.5	0.7W	12	128	7	0.12
140121	23:59:32.30	44°44.14'	110°48.03'	8.9	1.1W	16	130	7	0.10
140122	00:12:21.22	44°44.50'	110°48.32'	7.9	0.8W	11	135	6	0.11
140122	00:23:48.14	44°43.86'	110°48.53'	4.9	-0.2	7	126	7	0.07
140122	00:24:01.74	44°44.22'	110°48.39'	7.7	1.3W	17	126	7	0.11
140122	00:29:47.74	44°44.07'	110°47.80'	8.9	1.1W	19	129	7	0.10
140122	00:30:00.84	44°44.07'	110°48.01'	8.0	1.6W	21	76	7	0.16
140122	00:33:57.14	44°44.00'	110°48.15'	8.5	1.1W	13	126	7	0.07
140122	00:34:13.78	44°44.15'	110°47.87'	9.4	1.1W	14	132	7	0.09
140122	00:37:26.57	44°43.97'	110°48.06'	8.1	0.6	11	126	7	0.15
140122	00:37:36.55	44°44.23'	110°48.39'	5.9	-0.1	8	134	7	0.14
140122	00:52:21.33	44°43.83'	110°48.10'	5.8	0.3	9	130	7	0.11
140122	00:54:09.53	44°43.87'	110°47.87'	5.9	0.8W	7	133	8	0.10
140122	01:17:52.95	44°43.97'	110°48.40'	8.2	1.4W	23	75	7	0.14
140122	02:01:08.28	44°47.81'	110°31.89'	6.8	1.8W	17	139	9	0.18
140122	02:29:55.81	44°44.36'	110°48.35'	8.1	0.9W	14	131	6	0.12
140122	03:36:37.88	44°43.80'	110°48.27'	8.3	2.0W	30	47	7	0.17
140122	04:17:07.74	44°47.49'	110°31.36'	6.2	1.6W	10	138	8	0.11
140122	07:34:37.72	44°35.84'	111°09.02'	11.4	0.9	14	106	4	0.15
140122	08:50:17.59	44°44.25'	110°47.69'	8.2	1.1W	13	141	7	0.19
140122	10:07:02.41	44°44.12'	110°48.49'	5.2	0.7W	11	131	7	0.14
140122	10:38:06.92	44°44.13'	110°47.93'	8.3	1.5W	23	128	7	0.15
140122	10:44:36.26	44°43.83'	110°48.43'	5.1	1.4W	18	86	7	0.17
140122	12:01:24.45	44°44.18'	110°48.13'	7.0	1.0W	15	136	7	0.18
140122	14:12:14.64	44°43.62'	110°48.28'	7.7	1.9W	22	46	8	0.18
140122	15:18:05.29	44°48.11'	110°30.89'	12.4	1.6W	22	56	10	0.19
140123	01:09:45.05	44°49.83'	110°30.30'	7.6	2.0W	14	142	13	0.08
140123	04:45:27.66	44°46.54'	110°54.98'	7.9	0.3	13	142	5	0.07
140123	05:50:56.64	44°43.60'	110°48.03'	4.7	0.8	13	120	8	0.12
140123	07:24:58.82	44°43.71'	110°48.02'	8.4	1.7W	22	74	8	0.17
140123	08:41:53.59	44°46.31'	110°32.92'	2.8	1.7W	6	275	7	0.03
140123	16:49:09.01	44°47.92'	110°59.14'	5.4	0.4	13	165	5	0.13
140123	22:52:39.73	44°28.52'	110°33.03'	3.5	1.6W	13	63	5	0.08
140124	21:15:17.71	44°47.88'	110°57.39'	6.0	0.8W	12	168	6	0.09
140125	18:31:24.67	44°47.44'	110°59.70'	6.5	0.0	11	156	4	0.08
140128	02:44:29.88	44°44.80'	110°46.82'	6.2	1.4W	19	148	6	0.13
140128	11:39:47.39	44°48.87'	110°31.66'	7.3	1.5W	19	97	11	0.12
140130	01:29:59.82	44°48.04'	110°32.63'	4.3	1.5W	16	103	10	0.16

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140130	06:33:12.11	44°24.04'	110°37.64'	2.3	1.4	5	188	5	0.14
140130	06:39:18.22	44°22.52'	110°38.16'	-0.3	1.3W	7	176	8	0.32
140130	06:43:29.49	44°24.31'	110°37.67'	1.9	1.5	7	183	5	0.15
140130	06:57:03.46	44°23.86'	110°36.92'	1.8	2.2W	19	56	3	0.09
140130	08:40:35.35	44°48.42'	110°31.34'	11.8	2.4W	38	57	10	0.25
140130	10:57:10.44	44°49.01'	110°31.97'	10.1	1.8W	25	58	11	0.16
140130	11:11:35.97	44°48.48'	110°31.80'	7.3	2.0W	18	95	10	0.16
140130	11:11:36.03	44°47.90'	110°32.19'	7.9	1.4W	22	91	9	0.15
140130	16:42:11.70	44°48.75'	110°32.11'	4.9*	1.8W	16	96	11	0.19
140130	18:43:19.19	44°48.36'	110°32.43'	2.2	1.8W	12	142	10	0.13
140130	22:02:27.71	44°48.40'	110°31.50'	6.8	1.8W	12	95	10	0.17
140131	00:21:11.38	44°48.91'	110°31.91'	3.9*	1.9W	23	97	11	0.23
140131	04:16:01.02	44°43.08'	111°12.20'	10.7	1.2W	14	74	3	0.17
140131	04:19:39.34	44°43.36'	111°11.87'	11.5	0.4	11	71	3	0.08
140131	04:57:30.25	44°44.09'	110°47.49'	3.1	--	5	139	7	0.10
140131	04:57:38.16	44°45.63'	110°46.23'	2.2	-0.1	6	187	7	0.06
140131	04:57:52.01	44°44.62'	110°47.13'	3.0	-0.3	6	152	7	0.05
140131	04:58:00.91	44°45.11'	110°46.85'	5.3	--	6	167	7	0.05
140131	04:58:05.09	44°45.40'	110°46.50'	8.0	1.4W	13	160	7	0.13
140131	04:58:38.36	44°44.30'	110°47.01'	2.7	-0.3	7	144	6	0.07
140131	04:58:47.90	44°44.95'	110°46.80'	6.7	1.1W	15	151	7	0.11
140131	04:58:57.89	44°44.54'	110°46.86'	4.6	1.0	10	153	6	0.07
140131	04:59:13.65	44°44.39'	110°46.90'	5.1	0.3	10	148	6	0.10
140131	04:59:29.63	44°44.65'	110°47.14'	3.1	-0.4	6	156	7	0.05
140131	04:59:42.13	44°45.23'	110°46.51'	5.3	--	5	175	6	0.04
140131	04:59:47.30	44°44.67'	110°46.95'	2.2	--	6	154	7	0.04
140131	04:59:51.92	44°44.89'	110°46.73'	5.4	--	5	165	7	0.07
140131	06:45:30.17	44°48.48'	110°32.46'	7.4	1.6W	30	94	10	0.20
140131	11:18:25.29	44°49.12'	110°31.52'	7.0	1.2W	20	59	11	0.11
140131	11:35:25.25	44°37.28'	110°59.05'	7.6	0.9W	15	65	5	0.08
140131	13:25:39.83	44°50.06'	110°32.16'	6.9	1.7W	8	163	13	0.13
140131	14:35:32.94	44°34.70'	111°08.73'	9.2	1.1W	21	109	5	0.17
140131	16:55:29.17	44°47.89'	110°32.41'	4.3	1.9W	14	138	9	0.10
140201	01:00:48.22	44°48.00'	110°32.25'	5.1	1.7W	15	139	9	0.14
140201	07:00:12.18	44°20.96'	110°27.17'	9.1	0.6	16	143	9	0.20
140201	07:15:52.56	44°44.06'	110°48.15'	5.7	0.7W	14	128	7	0.16
140201	10:04:29.31	44°48.39'	110°30.95'	6.3	1.7W	16	96	10	0.20
140201	11:14:38.14	44°48.38'	110°31.68'	4.7	0.9	12	155	10	0.14
140201	11:19:06.82	44°48.07'	110°32.12'	6.9	1.3W	18	191	9	0.16
140201	19:03:24.46	44°44.54'	110°46.55'	7.6	1.8W	18	146	6	0.18
140201	23:40:15.34	44°44.29'	111°14.57'	9.1	-0.1	12	130	3	0.10
140202	01:23:11.77	44°44.02'	111°07.18'	6.1	1.4W	11	80	6	0.19
140202	01:32:46.34	44°45.14'	111°07.50'	10.4	0.1	14	63	5	0.13
140202	02:21:20.38	44°44.82'	111°07.50'	10.6	-0.1	9	64	6	0.11
140202	11:27:50.08	44°48.33'	110°31.72'	4.6	1.6W	12	155	10	0.12

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140202	12:09:25.27	44°48.33'	110°31.37'	9.3	1.6W	14	94	10	0.15
140202	17:33:47.14	44°49.42'	110°32.10'	6.8	1.8W	13	62	12	0.19
140202	21:27:51.91	44°49.54'	110°59.12'	6.7	0.9W	15	190	8	0.12
140202	23:02:13.48	44°27.38'	110°44.92'	2.0	2.0	8	126	7	0.29
140203	02:45:31.65	44°48.21'	110°31.99'	6.0	1.9W	16	93	10	0.20
140203	03:01:27.97	44°43.72'	110°48.19'	7.8	2.7W	29	47	8	0.16
140203	03:02:09.05	44°43.67'	110°48.07'	7.3	1.6	14	88	8	0.10
140203	04:58:59.26	44°50.83'	110°47.91'	3.5	1.1W	17	211	8	0.12
140203	07:49:21.26	44°49.63'	110°59.01'	5.4	-0.2	11	192	8	0.13
140203	13:54:26.89	44°44.02'	110°48.37'	6.9	0.9W	12	124	7	0.14
140203	20:54:14.08	44°17.47'	110°48.05'	3.1	0.2	6	156	2	0.08
140203	20:54:15.34	44°48.21'	110°59.67'	5.8	--	8	168	5	0.07
140204	00:39:28.44	44°44.38'	111°07.79'	6.2	0.1	13	94	5	0.12
140204	01:45:06.99	44°45.32'	111°11.15'	10.4	0.8W	14	67	1	0.15
140204	10:56:19.73	44°48.20'	110°32.10'	6.6	1.3W	20	141	10	0.16
140204	11:15:22.37	44°46.33'	110°59.25'	6.1	-0.2	13	140	2	0.10
140204	13:14:50.92	44°45.97'	110°32.63'	4.5	1.4W	9	260	6	0.07
140204	18:28:53.66	44°48.22'	110°16.52'	5.6	1.7W	13	101	8	0.23
140204	23:00:47.60	44°40.55'	111°14.12'	9.6	1.3W	16	106	4	0.14
140204	23:00:47.67	44°40.60'	111°13.83'	8.4	1.6W	19	105	4	0.17
140205	07:12:33.62	44°49.42'	110°32.39'	3.6*	1.5W	13	149	12	0.20
140205	13:02:51.23	44°52.95'	110°39.93'	22.6	1.5W	20	84	10	0.22
140205	13:45:34.10	44°45.29'	111°06.14'	9.4	0.6W	14	109	7	0.16
140205	13:53:07.31	44°45.08'	111°06.13'	8.8	-0.6	13	108	7	0.17
140205	22:38:15.00	44°14.78'	110°46.88'	4.5	1.5	6	93	3	0.18
140206	00:18:54.93	44°49.76'	110°30.99'	7.8	1.9W	14	109	12	0.15
140207	09:57:00.67	44°44.97'	110°47.09'	8.3	0.5	6	161	7	0.06
140207	17:26:40.09	44°40.42'	110°27.68'	2.2	1.0	9	113	6	0.14
140207	17:59:16.36	44°44.47'	110°47.01'	6.8	1.5W	21	141	7	0.18
140207	23:51:03.05	44°44.10'	111°08.14'	11.4	0.6	13	91	5	0.16
140208	13:09:56.22	44°47.76'	110°32.29'	6.7	1.2W	18	137	9	0.15
140209	12:24:12.47	44°45.14'	110°47.53'	7.4	1.6W	17	150	6	0.17
140209	13:08:17.04	44°45.80'	110°46.99'	10.8	1.0W	10	184	6	0.14
140209	14:21:23.74	44°44.31'	110°47.60'	4.5	1.1W	10	139	7	0.15
140209	15:32:03.53	44°45.50'	110°46.88'	8.9	1.6W	16	177	6	0.17
140209	21:11:38.63	44°44.57'	110°47.30'	4.7	1.0W	8	149	7	0.13
140209	21:44:54.83	44°44.69'	110°47.40'	8.5	1.8W	21	80	7	0.19
140209	22:01:09.76	44°45.26'	110°46.66'	10.1	1.5W	14	173	7	0.12
140209	22:23:47.62	44°44.31'	110°47.64'	4.6	0.7W	10	143	7	0.14
140209	23:21:13.60	44°45.13'	110°47.70'	5.7	1.0W	12	158	6	0.13
140209	23:28:53.62	44°44.46'	110°47.62'	4.1	1.0W	7	142	7	0.06
140209	23:45:50.78	44°45.29'	110°47.67'	7.4	1.2W	12	165	6	0.14
140210	00:01:20.98	44°45.35'	110°47.31'	7.5	1.6W	18	153	6	0.17
140210	05:52:37.84	44°45.94'	110°43.28'	0.5	--	6	185	5	0.15
140210	05:52:40.66	44°45.15'	110°41.83'	1.9	1.9W	18	103	3	0.18

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140210	06:22:57.75	44°46.06'	110°41.80'	3.5	2.0W	25	168	5	0.22
140210	06:53:59.94	44°45.01'	110°47.36'	8.1	1.4W	17	147	6	0.15
140210	08:55:33.77	44°44.71'	110°47.56'	9.1	2.4W	31	60	7	0.16
140210	11:40:26.86	44°44.83'	110°47.95'	4.9	1.3W	18	139	6	0.19
140210	13:09:44.76	44°45.66'	110°46.62'	10.5	1.3W	11	185	7	0.11
140210	15:56:45.29	44°49.96'	110°52.97'	4.1	1.4W	21	129	6	0.12
140210	20:22:46.50	44°44.79'	110°47.20'	6.3	1.0W	11	145	7	0.19
140210	20:23:18.53	44°44.05'	110°47.89'	4.1	0.3	8	136	7	0.16
140210	22:44:23.34	44°44.31'	110°47.89'	8.4	2.2W	25	54	7	0.19
140210	22:46:48.41	44°44.98'	110°47.54'	8.9	0.8W	8	156	6	0.10
140210	22:49:06.93	44°44.69'	110°47.81'	2.3	--	5	150	6	0.07
140210	22:49:11.28	44°44.43'	110°47.64'	3.1	0.4W	6	146	7	0.08
140210	22:49:14.03	44°45.09'	110°47.18'	10.4	1.8W	21	68	7	0.17
140210	22:49:40.53	44°44.66'	110°48.31'	2.2	--	5	143	6	0.08
140210	22:52:05.70	44°44.66'	110°47.67'	2.8	-0.2	6	151	7	0.11
140210	22:52:26.20	44°44.85'	110°48.33'	8.7	1.6W	17	77	6	0.17
140211	05:27:54.90	44°45.34'	110°47.42'	9.2	0.5W	6	168	6	0.08
140211	13:04:37.37	44°45.05'	110°47.46'	10.7	2.3W	30	67	6	0.23
140211	13:31:34.70	44°44.80'	110°47.59'	9.6	1.6W	18	80	6	0.18
140211	23:03:16.77	44°44.78'	110°47.70'	10.8	3.5W	42	61	6	0.20
140211	23:04:59.53	44°45.01'	110°47.35'	4.7	0.7	9	159	6	0.08
140211	23:05:10.30	44°44.44'	110°48.77'	2.4	0.5	7	133	6	0.12
140211	23:05:17.18	44°45.64'	110°47.73'	2.3	0.2	5	249	5	0.04
140211	23:05:37.69	44°45.11'	110°47.28'	2.2	0.0	7	162	6	0.11
140211	23:05:47.95	44°45.34'	110°46.97'	8.6	1.8W	25	84	6	0.15
140211	23:06:06.68	44°44.58'	110°47.80'	2.8	-0.3	6	148	7	0.11
140211	23:06:12.55	44°44.83'	110°47.48'	2.8	0.7	6	156	7	0.10
140211	23:10:17.61	44°44.52'	110°47.21'	4.7	0.7W	11	92	7	0.14
140211	23:10:40.78	44°44.73'	110°48.35'	6.3	1.9W	19	77	6	0.19
140211	23:11:42.41	44°44.48'	110°47.44'	3.0	0.0	6	149	7	0.04
140211	23:11:48.85	44°45.55'	110°46.58'	10.2	1.4W	11	182	7	0.10
140211	23:12:26.81	44°45.25'	110°47.15'	7.9	1.1W	16	168	6	0.17
140211	23:34:35.59	44°44.24'	110°47.78'	3.0	-0.2	5	141	7	0.05
140211	23:34:50.79	44°44.60'	110°47.56'	8.7	1.6W	17	87	7	0.20
140211	23:35:41.06	44°44.25'	110°47.79'	3.3	-0.3	6	141	7	0.14
140211	23:41:28.15	44°45.31'	110°48.08'	10.1	0.6W	5	160	5	0.13
140211	23:45:44.85	44°45.29'	110°46.70'	13.6	1.0W	10	174	7	0.16
140211	23:51:55.87	44°45.43'	110°46.67'	12.1	0.7W	7	178	7	0.12
140211	23:51:59.64	44°44.15'	110°47.82'	7.2	1.8W	21	83	7	0.18
140211	23:53:33.61	44°44.36'	110°47.12'	8.6	1.2W	11	150	8	0.10
140211	23:56:53.90	44°44.48'	110°47.92'	2.8	0.0	7	144	7	0.09
140211	23:57:24.72	44°44.14'	110°47.57'	7.3	1.5W	24	78	7	0.15
140211	23:58:33.86	44°44.14'	110°47.80'	2.1	--	6	139	7	0.10
140211	23:59:03.77	44°45.10'	110°46.72'	10.6	1.3W	18	154	7	0.14
140212	00:08:35.18	44°44.42'	110°47.65'	7.0	0.6W	8	141	7	0.11

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140212	00:08:47.55	44°43.95'	110°47.72'	4.0	0.8	10	136	8	0.16
140212	00:12:45.89	44°44.81'	110°47.86'	2.7	--	5	152	6	0.04
140212	00:13:00.44	44°45.17'	110°46.98'	9.3	0.9W	12	169	7	0.13
140212	00:22:25.24	44°45.07'	110°47.86'	7.3	1.3W	15	145	6	0.18
140212	00:24:04.53	44°44.70'	110°47.43'	8.1	0.8W	8	154	7	0.15
140212	00:41:06.21	44°44.11'	110°48.64'	4.9	1.5W	17	83	7	0.21
140212	02:38:46.61	44°44.55'	110°47.67'	5.1	1.1W	8	149	7	0.13
140212	02:40:13.83	44°44.80'	110°48.12'	7.8	2.4W	26	69	6	0.17
140212	03:39:12.57	44°44.47'	110°47.79'	4.5	1.4W	15	79	7	0.17
140212	04:02:22.41	44°44.93'	110°47.54'	9.5	1.6W	20	66	6	0.18
140212	06:30:13.21	44°45.69'	110°46.76'	8.9	1.1W	12	250	6	0.17
140212	07:33:13.09	44°45.49'	110°46.94'	8.9	0.6	7	246	6	0.13
140212	07:38:01.89	44°44.94'	110°47.39'	9.0	2.0W	30	64	7	0.17
140212	09:11:48.26	44°45.30'	110°47.05'	8.2	1.3W	18	154	6	0.17
140212	11:05:43.47	44°44.84'	110°48.00'	5.7	0.8W	11	91	6	0.19
140212	12:37:47.15	44°44.47'	110°47.62'	7.0	1.6W	20	79	7	0.18
140212	16:55:50.19	44°45.20'	110°47.68'	7.2	1.5W	18	149	6	0.14
140213	02:19:16.17	44°45.18'	110°47.31'	10.2	0.7W	10	164	6	0.09
140213	05:55:15.65	44°45.43'	110°46.89'	10.2	0.9W	6	176	6	0.07
140213	05:55:33.46	44°44.34'	110°47.94'	3.0	-0.1	7	141	7	0.09
140213	06:50:56.64	44°45.50'	110°47.76'	8.0	1.4W	18	153	5	0.14
140213	10:49:49.00	44°44.37'	110°47.65'	2.5	0.9W	7	145	7	0.09
140213	10:50:06.16	44°44.23'	110°47.79'	3.2	-0.2	6	140	7	0.05
140213	18:55:38.20	44°44.37'	110°47.83'	2.8	0.3	5	142	7	0.09
140213	19:41:21.68	44°43.51'	110°32.01'	5.6	2.2W	13	150	2	0.10
140213	23:20:14.59	44°42.48'	110°33.27'	2.3	--	7	157	3	0.07
140213	23:37:41.20	44°43.20'	110°38.65'	6.1	2.7W	27	71	3	0.16
140213	23:50:43.94	44°43.70'	110°39.00'	5.4	1.5W	11	149	3	0.10
140213	23:54:59.64	44°42.79'	110°33.34'	2.5	1.9W	6	169	3	0.06
140214	00:49:36.36	44°42.67'	110°33.34'	2.2	0.1	7	165	3	0.07
140214	00:49:49.65	44°43.55'	110°32.51'	5.6	1.6W	16	99	3	0.12
140214	01:16:18.93	44°43.99'	110°31.93'	6.7	1.2W	14	156	2	0.16
140214	01:47:55.96	44°44.43'	110°32.31'	5.1	1.8W	10	160	3	0.13
140214	01:54:41.15	44°43.39'	110°33.30'	2.1	--	8	194	3	0.05
140214	01:54:42.48	44°42.83'	110°34.16'	1.1	1.3W	12	172	5	0.11
140214	01:55:38.77	44°42.54'	110°33.31'	2.2	--	8	159	3	0.05
140214	01:58:12.14	44°43.59'	110°32.21'	5.8	1.7W	18	83	2	0.11
140214	01:59:03.29	44°44.61'	110°31.42'	7.4	1.7W	8	187	3	0.12
140214	02:15:06.20	44°43.18'	110°33.37'	1.8	0.4	7	185	4	0.08
140214	02:15:15.57	44°43.08'	110°31.95'	5.9	1.3W	20	96	2	0.11
140214	02:16:15.07	44°42.98'	110°32.84'	3.8	--	6	158	3	0.12
140214	18:56:46.54	44°44.29'	110°48.42'	4.8	0.4	7	134	7	0.08
140214	19:21:38.54	44°44.58'	110°48.53'	3.3	--	5	139	6	0.04
140214	19:21:52.46	44°45.10'	110°48.81'	5.5	--	5	145	5	0.05
140214	19:21:57.97	44°44.76'	110°48.46'	6.4	0.9W	16	132	6	0.14

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140214	19:22:18.94	44°44.99'	110°48.47'	5.5	--	5	148	5	0.05
140214	19:22:25.55	44°44.46'	110°47.98'	3.0	--	7	143	7	0.12
140214	19:23:21.99	44°46.13'	111°06.64'	10.5	-0.2	11	77	3	0.12
140214	19:23:50.53	44°44.55'	110°48.45'	5.3	-0.2	7	139	6	0.08
140214	22:34:18.41	44°23.63'	110°59.77'	2.4*	1.1W	7	150	14	0.05
140215	01:54:25.06	44°43.45'	110°32.48'	5.2	1.9W	11	165	2	0.10
140215	03:10:40.09	44°50.67'	111°26.92'	11.4	0.9	17	151	2	0.10
140215	10:23:53.34	44°46.45'	111°05.01'	8.1	3.0W	37	80	3	0.17
140215	15:51:19.81	44°44.19'	110°47.10'	3.2	1.2W	9	141	7	0.11
140216	03:14:32.80	44°46.21'	111°04.17'	5.1	0.8	14	127	4	0.08
140216	03:27:02.92	44°45.21'	110°48.99'	8.6	1.2W	12	142	5	0.09
140216	05:30:07.62	44°44.24'	110°46.91'	5.1	0.5	9	144	6	0.08
140216	10:59:28.99	44°49.50'	110°30.69'	6.7	1.9W	13	120	12	0.08
140216	13:02:05.12	44°44.68'	111°09.17'	15.5	0.3	14	67	4	0.09
140216	14:37:42.63	44°46.88'	111°03.96'	8.4	1.9W	27	93	4	0.15
140216	21:07:11.39	44°44.74'	110°47.68'	8.1	1.5W	12	88	6	0.16
140216	21:13:04.23	44°44.46'	110°47.84'	6.9	1.1W	11	88	7	0.13
140216	23:04:57.95	44°44.95'	110°47.39'	8.0	1.1W	10	157	6	0.12
140216	23:05:14.81	44°44.63'	110°47.48'	7.2	0.8	9	148	7	0.13
140216	23:59:34.30	44°44.74'	110°47.98'	7.7	1.3W	12	137	6	0.12
140217	01:12:53.60	44°45.48'	110°47.96'	10.3	1.1W	9	164	5	0.06
140217	02:26:37.37	44°46.34'	111°05.57'	7.4	1.6W	13	106	3	0.10
140217	03:33:19.06	44°44.64'	110°48.27'	4.6	-0.2	5	143	6	0.05
140217	03:33:42.17	44°45.06'	110°48.07'	8.1	1.1W	9	155	6	0.07
140217	03:34:10.71	44°44.57'	110°48.20'	2.3	-0.1	7	143	6	0.11
140217	03:34:33.65	44°45.07'	110°48.28'	2.7	--	6	152	5	0.09
140217	04:38:11.17	44°44.18'	110°48.42'	2.5	-0.1	7	132	7	0.04
140217	04:38:34.15	44°44.94'	110°48.67'	7.4	1.5W	13	133	5	0.08
140217	04:38:59.72	44°45.23'	110°47.71'	3.4	-0.3	5	162	6	0.14
140217	04:41:29.54	44°44.57'	110°48.64'	5.7	1.8W	17	78	6	0.14
140217	04:42:29.55	44°44.32'	110°48.44'	3.6	-0.3	7	135	6	0.05
140217	04:42:46.57	44°44.57'	110°48.61'	7.9	2.0W	18	78	6	0.15
140217	04:49:06.62	44°45.03'	110°48.35'	9.0	1.8W	17	138	6	0.12
140217	04:49:26.41	44°44.42'	110°48.68'	2.6	0.3	6	134	6	0.12
140217	05:07:48.30	44°44.58'	110°48.75'	6.3	1.6W	16	78	6	0.16
140217	05:08:05.17	44°44.24'	110°48.60'	5.5	--	8	132	7	0.09
140217	05:08:19.62	44°44.25'	110°48.50'	4.0	0.8	7	133	7	0.14
140217	05:11:42.08	44°44.57'	110°48.85'	6.0	1.5W	14	84	6	0.12
140217	05:32:49.26	44°44.95'	110°48.49'	8.0	1.1W	8	147	5	0.07
140217	06:22:51.28	44°44.53'	110°48.65'	3.0	--	6	136	6	0.06
140217	06:23:07.08	44°44.89'	110°48.69'	7.5	1.3W	15	84	5	0.14
140217	06:51:06.47	44°44.70'	110°48.43'	6.7	1.2W	9	139	6	0.08
140217	06:51:24.66	44°45.57'	110°47.54'	2.3	--	6	173	6	0.11
140217	06:51:46.54	44°44.50'	110°48.23'	3.0	-0.1	5	141	6	0.06
140217	06:51:51.03	44°44.23'	110°48.65'	4.1	1.0	11	123	7	0.06

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140217	09:37:00.59	44°44.50'	110°48.96'	6.7	1.6W	16	79	6	0.15
140217	09:37:12.61	44°44.33'	110°48.74'	4.4	0.6	10	94	6	0.11
140217	09:46:56.45	44°44.34'	110°48.96'	6.9	1.5W	17	80	6	0.15
140217	09:47:03.51	44°44.48'	110°47.90'	2.0	0.3	7	144	7	0.21
140217	12:01:42.82	44°46.52'	111°06.00'	6.8	2.1W	24	67	2	0.13
140217	23:37:25.43	44°44.85'	110°48.54'	8.0	2.1W	26	77	6	0.15
140217	23:38:10.22	44°44.72'	110°48.26'	7.8	2.4W	28	78	6	0.15
140218	00:13:48.56	44°44.97'	110°48.71'	8.0	1.2W	17	133	5	0.14
140218	04:27:35.98	44°45.33'	110°48.08'	7.8	-0.2	8	158	5	0.10
140218	04:27:53.90	44°45.10'	110°47.70'	10.1	2.2W	31	66	6	0.15
140218	04:28:14.17	44°44.87'	110°48.39'	5.8	0.7	19	135	6	0.14
140218	11:08:36.95	44°43.37'	110°38.28'	6.8	2.8W	28	126	3	0.15
140218	13:55:44.63	44°44.94'	110°47.93'	8.1	0.6	10	151	6	0.12
140218	16:51:42.98	44°44.58'	110°47.60'	6.4	1.1W	13	139	7	0.18
140218	16:53:17.22	44°44.23'	110°47.42'	5.4	1.5W	12	134	7	0.12
140218	16:57:47.73	44°44.65'	110°47.21'	8.0	1.6W	19	142	7	0.14
140218	17:10:50.97	44°44.24'	110°46.72'	7.8	1.7W	16	142	6	0.16
140218	17:32:58.72	44°46.43'	111°05.46'	7.2	1.2W	13	111	3	0.09
140218	17:42:11.12	44°44.46'	110°46.74'	8.1	1.4W	16	145	6	0.14
140218	18:35:55.10	44°44.50'	110°47.08'	6.7	1.6W	18	141	7	0.19
140218	18:36:24.49	44°44.16'	110°49.52'	6.9	-0.5	11	114	6	0.16
140219	01:06:38.92	44°47.70'	111°18.27'	10.9	0.4	10	141	10	0.11
140219	11:59:38.95	44°47.74'	111°00.95'	5.3	1.5W	23	100	4	0.23
140219	12:30:25.66	44°45.83'	111°05.69'	6.8	2.2W	18	67	4	0.09
140219	14:48:05.74	44°44.33'	110°38.19'	7.3	2.0W	21	96	4	0.22
140219	14:49:13.29	44°43.97'	110°38.65'	4.7	1.7W	12	152	3	0.15
140219	14:49:26.56	44°44.09'	110°38.60'	5.3	1.5W	15	154	4	0.14
140219	18:15:36.42	44°46.39'	111°04.85'	7.1	2.2W	22	92	3	0.12
140219	20:34:08.12	44°46.57'	111°05.12'	8.1	2.5W	30	80	3	0.18
140220	00:34:16.23	44°47.19'	111°01.07'	3.8	0.0	11	150	3	0.08
140220	05:02:07.09	44°44.97'	110°48.01'	7.9	1.3W	15	140	6	0.17
140220	12:51:54.01	44°47.34'	111°01.28'	4.2	0.1	13	151	4	0.12
140220	15:32:56.95	44°35.08'	111°07.65'	11.8	1.3	14	85	3	0.16
140220	19:00:37.66	44°46.15'	110°48.10'	13.4	1.2W	8	164	4	0.11
140220	19:01:02.42	44°44.99'	110°48.49'	5.5	1.4W	11	136	5	0.10
140220	19:01:22.98	44°44.69'	110°48.20'	2.5	0.0	7	145	6	0.13
140222	06:50:55.03	44°32.00'	111°07.28'	15.3	0.9	11	147	8	0.13
140222	08:42:05.15	44°44.19'	111°05.62'	9.0	0.1	13	77	7	0.10
140223	13:07:35.27	44°41.54'	110°38.04'	4.5	--	7	169	4	0.09
140223	13:22:46.54	44°44.80'	110°46.72'	8.3	1.1W	12	160	6	0.13
140223	13:55:49.61	44°44.69'	110°46.83'	7.9	1.8W	20	145	6	0.13
140223	21:20:24.29	44°45.20'	110°48.13'	8.5	1.4W	18	145	5	0.16
140223	22:42:28.88	44°47.19'	111°01.45'	3.8	0.6W	14	149	3	0.14
140224	19:55:38.35	44°50.10'	111°23.65'	9.8	1.3	21	102	3	0.09
140225	00:22:21.14	44°44.76'	110°46.68'	5.3	1.2W	18	148	6	0.13

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

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140225	10:36:43.33	44°44.77'	110°47.84'	7.1	1.8W	17	81	6	0.19
140226	00:44:10.69	44°33.36'	110°49.65'	5.5	1.5W	20	101	7	0.24
140226	01:21:24.50	44°48.21'	110°48.69'	4.7	1.0W	13	190	4	0.13
140226	01:48:59.19	44°48.35'	110°48.71'	6.5	0.7W	12	192	4	0.05
140227	10:12:53.94	44°44.66'	110°46.72'	5.8	1.8W	22	82	6	0.19
140227	10:29:13.34	44°47.82'	110°57.43'	6.4	0.3	14	167	6	0.10
140228	12:30:56.00	44°44.83'	111°11.67'	14.4	0.7	10	122	0	0.16
140228	13:40:53.44	44°40.40'	110°27.52'	2.0	1.4W	10	113	6	0.07
140301	18:44:23.16	44°44.41'	110°46.60'	6.8	1.8W	12	143	6	0.12
140301	18:44:38.41	44°44.66'	110°46.93'	4.7	1.9W	9	158	7	0.09
140301	18:44:40.47	44°44.18'	110°46.62'	10.2	2.9W	27	64	6	0.29
140301	18:45:44.27	44°44.74'	110°46.79'	2.1	--	5	158	6	0.04
140301	18:46:06.58	44°44.80'	110°46.88'	6.2	1.6W	21	147	7	0.18
140301	18:46:35.42	44°44.62'	110°47.24'	2.9	-0.5	5	155	7	0.05
140301	18:46:44.32	44°44.59'	110°46.69'	2.8	0.3	5	159	8	0.05
140301	18:50:07.40	44°44.55'	110°47.30'	7.8	1.1W	8	147	7	0.28
140301	18:50:38.15	44°44.76'	110°46.93'	6.7	1.4W	15	146	7	0.16
140301	18:57:50.24	44°44.52'	110°46.69'	5.7	1.6W	16	144	6	0.18
140301	19:00:08.37	44°44.63'	110°46.70'	7.0	2.0W	21	82	6	0.18
140301	19:09:02.15	44°44.81'	110°46.53'	7.9	1.3W	12	150	6	0.11
140301	22:30:25.93	44°44.07'	110°46.36'	8.0	1.7W	23	68	6	0.15
140301	22:31:03.53	44°44.19'	110°47.01'	3.7	--	5	147	8	0.05
140302	05:55:23.22	44°44.53'	110°46.62'	8.2	2.0W	29	63	6	0.15
140302	05:55:51.54	44°44.37'	110°47.19'	2.2	0.0	7	145	7	0.06
140302	05:56:26.08	44°44.18'	110°47.09'	3.2	-0.2	5	138	8	0.06
140302	05:56:34.17	44°45.26'	110°44.38'	14.1	0.3	10	168	4	0.15
140302	05:56:51.37	44°44.47'	110°47.08'	4.7	0.1	10	140	7	0.08
140302	06:29:30.68	44°44.82'	110°47.05'	5.4	1.3W	9	146	7	0.14
140302	06:29:57.83	44°44.89'	110°46.97'	7.3	1.7W	19	148	7	0.14
140302	07:45:49.45	44°44.26'	110°46.92'	7.9	2.0W	32	58	6	0.16
140302	19:47:39.33	44°48.11'	110°31.60'	7.5	2.0W	27	93	9	0.19
140303	01:01:06.18	44°48.64'	110°38.44'	2.4*	1.7W	11	233	11	0.08
140303	11:33:23.33	44°50.39'	110°38.29'	4.1*	2.0W	23	117	14	0.16
140303	13:43:37.30	44°40.64'	110°27.61'	5.3	1.6W	15	111	6	0.13
140303	21:20:06.03	44°44.55'	110°46.63'	4.9	1.4W	12	145	6	0.13
140303	21:20:20.62	44°45.49'	110°45.37'	2.1	--	8	167	5	0.11
140304	04:31:50.99	44°44.50'	110°46.82'	4.9	1.5W	23	143	6	0.13
140304	05:47:29.55	44°23.91'	110°36.05'	4.0	1.0	11	91	2	0.09
140304	08:34:17.54	44°44.36'	110°46.66'	5.0	1.5W	19	142	6	0.13
140304	08:34:37.45	44°44.35'	110°46.68'	3.3	--	5	154	8	0.05
140304	16:38:50.81	44°44.09'	110°46.23'	6.2	1.1W	8	145	5	0.07
140305	01:23:27.61	44°44.66'	110°46.56'	7.2	1.5W	22	147	6	0.16
140305	01:52:49.48	44°44.79'	110°46.41'	6.1	1.7W	21	150	6	0.16
140305	11:37:43.95	44°44.76'	110°46.61'	6.8	1.3W	17	150	6	0.14
140305	16:33:20.20	44°44.75'	110°46.92'	7.9	1.7W	18	146	7	0.14

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140305	17:29:40.43	44°45.97'	110°43.27'	12.9	-0.3	6	271	11	0.15
140306	06:16:47.63	44°44.54'	110°46.66'	6.1	1.3W	14	145	6	0.14
140306	11:14:02.92	44°50.36'	111°26.70'	11.8	0.6	10	151	2	0.10
140306	19:36:00.23	44°44.61'	110°46.59'	6.2	1.5W	18	146	6	0.14
140306	19:36:19.83	44°45.37'	110°45.81'	2.1	--	6	186	6	0.12
140306	19:36:22.57	44°43.75'	110°46.98'	2.0	0.7	11	131	6	0.14
140307	09:31:51.82	44°44.75'	110°48.29'	12.2	--	7	145	6	0.14
140307	09:32:00.00	44°44.95'	110°48.37'	8.8	1.0W	11	145	6	0.16
140307	09:57:41.62	44°44.68'	110°48.70'	5.0	0.9W	9	139	6	0.11
140307	14:00:15.68	44°44.53'	110°40.44'	1.6	--	7	170	3	0.12
140308	12:32:00.52	44°47.65'	110°38.26'	5.4	1.7W	23	141	9	0.15
140308	18:41:30.53	44°49.20'	111°01.88'	7.8	1.3W	17	177	7	0.09
140308	19:12:50.77	44°46.15'	111°10.32'	7.2	0.2	6	131	3	0.10
140308	21:47:28.02	44°43.94'	110°47.00'	2.2	0.8W	9	135	6	0.07
140309	03:44:45.28	44°44.33'	110°46.94'	8.0	0.8W	7	151	8	0.12
140309	05:37:05.53	44°49.49'	110°30.57'	5.8*	1.0	14	99	12	0.20
140309	05:41:31.98	44°48.21'	110°32.25'	7.2	1.8W	27	105	10	0.13
140309	05:44:42.28	44°50.30'	110°39.50'	11.4	1.3W	14	109	14	0.22
140310	00:52:58.30	44°48.15'	110°45.74'	2.4	1.1	10	247	7	0.09
140310	00:52:58.49	44°47.35'	110°45.65'	2.9	1.6W	13	105	7	0.11
140310	06:36:13.91	44°45.33'	110°47.56'	9.9	0.6	11	165	6	0.08
140310	06:53:55.43	44°44.59'	110°47.88'	7.5	0.9	8	147	7	0.09
140311	01:53:20.32	44°48.04'	110°33.17'	4.8	1.7W	12	184	10	0.11
140311	02:57:25.78	44°31.83'	110°50.19'	2.1	0.6W	9	148	9	0.17
140311	02:57:35.55	44°31.58'	110°52.09'	2.0	1.7W	16	82	9	0.17
140311	02:57:54.60	44°31.61'	110°50.80'	2.2	1.2	6	156	8	0.11
140311	02:59:45.31	44°31.58'	110°52.18'	3.2	2.2W	16	82	9	0.19
140311	09:20:36.70	44°49.96'	110°31.92'	6.7	1.7W	14	122	13	0.14
140311	10:57:31.66	44°45.29'	110°46.74'	7.9	1.2W	13	156	7	0.11
140311	10:59:10.55	44°44.70'	110°47.31'	6.0	2.1W	24	80	7	0.17
140311	11:03:42.73	44°45.22'	110°46.95'	6.4	1.6W	24	154	7	0.14
140311	11:04:34.79	44°44.89'	110°47.29'	6.3	1.8W	24	81	7	0.19
140311	11:05:11.99	44°44.85'	110°46.98'	7.0	1.4W	16	147	7	0.11
140311	11:05:30.55	44°45.30'	110°47.06'	6.2	0.4	10	171	6	0.10
140311	11:16:27.03	44°44.81'	110°46.80'	6.6	1.6W	20	148	6	0.18
140312	20:36:57.15	44°48.88'	111°01.98'	6.7	-0.5	9	172	7	0.14
140313	11:52:05.45	44°46.09'	111°05.91'	11.1	0.2	14	94	3	0.11
140313	11:52:05.52	44°45.79'	111°06.53'	9.9	0.2	11	80	4	0.17
140313	14:56:34.32	44°48.19'	110°48.64'	5.5	0.2	9	190	4	0.05
140313	16:51:59.88	44°44.44'	110°46.34'	8.3	0.9W	8	155	6	0.14
140314	01:49:22.11	44°47.50'	111°06.65'	6.5	-0.2	10	90	1	0.13
140314	07:56:42.88	44°45.06'	110°47.15'	7.2	1.0W	10	162	7	0.16
140314	09:23:21.33	44°45.17'	111°12.35'	11.8	-0.1	13	87	1	0.13
140314	18:44:45.15	44°23.69'	110°50.30'	3.5	0.3	7	130	6	0.05
140314	18:45:08.30	44°23.50'	110°50.06'	3.1	1.5	11	110	7	0.09

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140314	19:54:02.10	44°23.46'	110°50.14'	3.2	1.5	11	126	7	0.04
140315	13:41:00.13	44°45.12'	111°10.54'	6.5	0.1	6	180	2	0.08
140316	00:23:20.85	44°45.02'	110°46.16'	9.0	2.1W	20	88	6	0.11
140316	00:37:40.65	44°41.62'	110°59.17'	6.3	1.1W	12	67	3	0.15
140316	02:21:39.28	44°49.91'	110°32.00'	7.1	1.8W	21	122	13	0.14
140316	04:06:05.63	44°26.89'	110°32.39'	3.5	1.0W	10	100	4	0.05
140316	07:55:55.42	44°49.38'	110°58.80'	7.3	0.2	12	121	7	0.14
140316	16:23:34.41	44°44.54'	110°47.14'	6.7	0.9	7	154	7	0.07
140316	16:24:01.79	44°44.34'	110°47.13'	5.4	--	6	150	8	0.10
140316	18:14:22.43	44°45.76'	110°46.58'	5.3	1.0	13	188	7	0.09
140316	18:59:27.61	44°44.13'	110°47.35'	6.5	1.2W	16	134	7	0.10
140317	07:02:37.65	44°46.83'	110°46.96'	5.7	0.6	10	182	5	0.12
140317	07:18:41.13	44°49.23'	110°32.52'	4.7*	1.9W	15	148	12	0.10
140318	03:13:09.38	44°43.81'	110°47.01'	3.4	0.1	6	140	8	0.09
140318	03:13:24.56	44°44.10'	110°46.81'	4.5	0.9	13	138	6	0.13
140319	08:01:37.22	44°45.95'	111°07.27'	8.9	0.1	12	78	4	0.15
140319	08:03:59.28	44°46.05'	111°07.14'	10.5	1.0W	15	66	3	0.17
140319	19:46:42.92	44°45.47'	110°47.04'	3.1	--	6	176	6	0.05
140319	19:47:09.95	44°45.24'	110°47.05'	2.2	-0.4	6	170	6	0.04
140319	20:03:28.51	44°45.55'	110°46.87'	7.8	1.9W	21	86	6	0.20
140319	21:37:21.50	44°47.96'	110°37.97'	2.3	0.9	9	227	10	0.14
140320	06:12:17.58	44°47.05'	110°46.59'	8.9	0.8W	5	219	6	0.03
140320	06:13:48.72	44°45.01'	110°47.77'	5.5	--	5	157	6	0.09
140320	09:56:04.41	44°27.03'	110°31.79'	4.4	1.0W	14	82	5	0.05
140320	11:13:49.16	44°47.17'	110°46.76'	10.8	0.9W	7	221	6	0.10
140320	12:17:19.88	44°22.88'	110°46.62'	1.6	1.5	8	138	9	0.15
140320	20:17:48.20	44°45.12'	110°47.08'	1.4	1.0W	10	165	7	0.15
140320	20:45:04.97	44°45.25'	110°47.17'	2.1	0.9W	5	169	6	0.03
140320	21:27:21.51	44°45.50'	110°47.86'	5.2	0.9W	8	166	5	0.16
140320	21:46:38.67	44°44.86'	110°47.04'	1.1	0.3	8	159	7	0.07
140320	23:30:59.74	44°45.12'	110°47.30'	3.1	0.9W	9	162	6	0.19
140321	00:54:52.13	44°45.88'	110°46.89'	7.5	2.0W	17	88	6	0.18
140321	05:22:15.91	44°47.51'	110°45.77'	10.0	0.9W	6	220	7	0.06
140321	05:48:52.25	44°45.91'	110°46.75'	5.9	1.2W	7	189	6	0.09
140321	05:56:01.19	44°45.13'	110°46.59'	4.1	1.0W	8	172	7	0.23
140321	07:31:42.83	44°47.08'	110°46.89'	7.5	0.6W	9	209	5	0.14
140321	07:32:14.74	44°44.93'	110°47.75'	2.5	--	6	155	6	0.13
140321	10:19:49.80	44°44.58'	110°46.91'	5.6	--	5	157	7	0.06
140321	10:20:02.08	44°44.83'	110°46.90'	6.5	1.0W	7	159	7	0.08
140321	15:50:59.22	44°49.43'	110°46.25'	4.3	1.0W	15	155	7	0.10
140321	15:51:15.27	44°49.63'	110°45.93'	6.1	1.7W	24	119	8	0.13
140321	15:51:28.35	44°48.44'	110°46.22'	4.3	1.9W	19	100	7	0.20
140321	16:53:59.82	44°49.42'	110°45.78'	7.3	2.3W	33	99	8	0.15
140322	04:11:32.02	44°49.77'	110°45.74'	3.7	1.9W	16	119	8	0.12
140322	04:11:55.75	44°48.02'	110°46.63'	2.0	--	7	215	6	0.18

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140322	05:20:25.08	44°45.06'	110°46.79'	7.9	2.3W	23	85	7	0.17
140322	05:34:16.64	44°45.37'	110°46.70'	7.8	1.9W	18	158	7	0.10
140322	05:36:57.42	44°45.08'	110°46.78'	7.8	2.3W	26	117	7	0.14
140322	05:39:34.63	44°46.28'	110°46.42'	9.2	--	5	201	6	0.09
140322	05:39:38.59	44°45.11'	110°47.13'	7.8	1.6W	21	150	7	0.13
140322	05:46:27.61	44°49.51'	110°46.20'	4.3	1.8W	20	119	8	0.14
140322	08:44:09.31	44°49.82'	110°45.85'	2.7	1.6W	14	120	8	0.11
140322	08:44:39.39	44°48.58'	110°46.19'	3.7	1.6W	9	197	7	0.06
140322	14:41:14.11	44°35.90'	110°31.55'	8.8	1.4W	12	105	9	0.14
140322	14:41:33.84	44°35.85'	110°31.35'	6.0	--	5	163	10	0.02
140322	14:42:05.13	44°36.02'	110°31.48'	10.7	1.4W	8	107	9	0.12
140322	14:44:18.01	44°36.88'	110°31.30'	8.8	1.8W	11	172	10	0.13
140323	08:02:27.82	44°46.07'	110°46.02'	7.9	2.0W	20	94	7	0.10
140323	10:56:52.12	44°47.22'	110°59.63'	8.2	--	8	153	3	0.11
140324	04:43:37.50	44°34.92'	110°22.77'	3.3	0.7	8	194	2	0.06
140324	04:55:22.31	44°34.42'	110°24.58'	2.7	1.1W	11	147	1	0.12
140324	11:21:37.27	44°46.70'	110°46.43'	7.5	1.7W	18	108	6	0.13
140324	18:06:51.38	44°14.78'	110°26.66'	3.6	1.4W	11	191	7	0.06
140326	01:42:30.57	44°46.16'	110°59.18'	8.1	0.3	7	199	2	0.08
140326	02:24:23.00	44°49.52'	110°45.75'	11.4	1.2W	6	271	8	0.07
140326	18:08:36.77	44°45.38'	110°47.00'	5.0	1.2W	8	158	6	0.04
140326	18:08:36.80	44°45.00'	110°46.84'	6.2	1.1	6	165	7	0.03
140326	19:14:36.76	44°48.27'	110°46.35'	6.4	3.0W	28	99	6	0.20
140326	19:16:00.87	44°49.06'	110°46.23'	4.0	2.1W	22	201	7	0.10
140326	19:25:52.65	44°51.70'	110°45.49'	4.7*	1.1	6	278	11	0.03
140326	22:57:19.83	44°49.55'	110°45.99'	3.7	1.0	14	205	8	0.12
140326	23:59:00.89	44°48.04'	110°46.66'	4.5	3.5W	25	99	6	0.17
140327	00:00:10.70	44°47.94'	110°46.44'	3.9	2.0	21	98	6	0.18
140327	00:11:14.86	44°49.58'	110°46.10'	4.0	2.2W	23	156	8	0.12
140327	00:11:57.50	44°49.28'	110°46.45'	2.0	1.5	13	202	7	0.22
140327	00:20:59.59	44°47.98'	110°46.29'	4.1	2.2W	21	97	6	0.16
140327	00:58:40.01	44°48.48'	110°46.36'	4.3	1.9W	15	100	7	0.18
140327	01:06:40.72	44°49.24'	110°45.92'	4.1	1.8W	21	203	8	0.10
140327	01:23:45.44	44°47.69'	110°46.60'	3.6	-0.2	8	191	6	0.13
140327	01:24:06.26	44°48.09'	110°46.44'	6.2	2.5W	23	99	6	0.23
140327	02:13:47.56	44°49.27'	110°45.82'	2.5	1.2	16	203	8	0.14
140327	06:24:49.04	44°49.97'	110°45.38'	3.9	1.6W	14	120	9	0.08
140327	09:20:34.54	44°45.08'	110°46.21'	5.0	0.6	11	175	8	0.08
140327	13:05:34.57	44°49.43'	110°46.06'	4.4	2.1W	24	118	8	0.13
140327	13:21:42.57	44°49.16'	110°38.74'	3.6*	0.6	7	221	12	0.06
140327	13:22:12.53	44°52.31'	110°49.32'	7.2	1.5W	11	133	10	0.10
140327	17:03:22.37	44°46.44'	110°47.06'	4.4	0.5	8	179	5	0.03
140327	18:56:53.80	44°44.86'	110°47.86'	6.7	1.6W	11	140	6	0.09
140327	22:36:05.11	44°46.41'	110°41.40'	3.9	1.8W	12	190	5	0.17
140328	02:12:00.63	44°47.20'	110°38.51'	3.6	2.0W	25	143	8	0.11

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140328	02:12:00.79	44°46.42'	110°38.39'	2.2	1.9W	13	205	7	0.10
140328	03:45:36.06	44°47.81'	110°46.24'	4.0	1.8W	17	97	6	0.14
140328	11:37:16.32	44°50.32'	110°30.75'	7.1	2.0W	12	141	13	0.08
140328	15:41:43.72	44°49.52'	110°46.89'	3.1	0.5	8	203	7	0.09
140329	13:14:45.48	44°48.18'	110°46.69'	3.5	0.2	12	213	6	0.07
140330	01:03:33.40	44°41.56'	110°41.28'	1.5	--	7	216	2	0.01
140330	01:03:38.05	44°48.03'	110°37.25'	3.0*	1.6W	20	109	11	0.17
140330	05:06:14.63	44°44.52'	110°46.31'	2.4	--	7	161	8	0.08
140330	06:23:48.50	44°47.23'	110°40.56'	4.1	3.0W	25	143	7	0.19
140330	06:47:56.92	44°46.88'	110°41.11'	3.3	1.5W	10	142	6	0.18
140330	06:48:52.73	44°47.34'	110°40.89'	1.9	1.6W	10	201	7	0.17
140330	06:59:58.73	44°46.46'	110°41.49'	3.0	1.9W	9	192	5	0.15
140330	07:00:10.10	44°46.88'	110°42.48'	-0.3	--	5	201	6	0.05
140330	07:01:33.61	44°47.57'	110°40.20'	3.8	2.4W	19	145	8	0.18
140330	08:17:15.67	44°46.71'	110°41.43'	3.6	1.3W	10	195	6	0.15
140330	08:17:41.95	44°46.99'	110°41.20'	2.5	--	6	206	6	0.19
140330	10:36:25.97	44°46.30'	110°41.03'	3.9	3.4W	27	76	5	0.20
140330	10:36:41.30	44°44.29'	110°42.10'	1.9	--	5	164	1	0.04
140330	10:37:07.72	44°46.10'	110°41.07'	1.7	--	8	194	5	0.11
140330	11:00:47.05	44°48.90'	110°58.96'	7.4	0.3	14	180	6	0.07
140330	11:03:06.37	44°46.35'	110°41.00'	3.5	2.0W	20	94	5	0.17
140330	11:03:12.46	44°45.30'	110°41.97'	2.9	2.2W	5	179	3	0.08
140330	11:03:12.60	44°44.99'	110°41.49'	2.0	2.3W	8	177	3	0.09
140330	12:18:58.49	44°46.02'	110°40.95'	3.6	2.5W	28	148	5	0.17
140330	12:28:31.83	44°47.59'	110°40.56'	3.6	1.7W	17	109	8	0.19
140330	12:34:39.16	44°46.33'	110°41.08'	5.6	4.8M	39	63	5	0.25
140330	12:47:16.21	44°46.42'	110°41.45'	3.2	0.1	15	190	5	0.19
140330	12:48:58.70	44°45.82'	110°41.37'	2.1	0.0	13	186	4	0.09
140330	12:49:49.25	44°45.76'	110°43.95'	-0.2	0.8	6	179	5	0.16
140330	12:50:01.63	44°44.49'	110°43.65'	1.8	1.4	9	159	3	0.13
140330	12:51:35.90	44°42.52'	110°41.88'	1.7	--	6	207	2	0.04
140330	12:51:39.64	44°41.18'	110°41.66'	1.0	--	7	187	3	0.10
140330	12:51:49.71	44°43.17'	110°40.00'	4.2	--	8	165	1	0.08
140330	12:51:52.92	44°45.49'	110°41.65'	4.6	0.2	12	181	4	0.10
140330	12:52:02.64	44°46.34'	110°39.45'	1.8	2.1W	16	105	6	0.31
140330	12:52:37.96	44°46.11'	110°40.55'	3.2	1.0	10	189	5	0.09
140330	12:54:33.01	44°47.10'	110°42.52'	4.1	1.4W	8	251	7	0.07
140330	12:59:36.85	44°46.20'	110°40.96'	3.7	1.6W	11	190	5	0.10
140330	13:00:03.25	44°45.85'	110°40.87'	2.5	1.8W	10	186	5	0.10
140330	13:01:44.19	44°46.28'	110°40.00'	2.0	1.6W	7	256	6	0.10
140330	13:03:24.36	44°45.09'	110°40.68'	2.0	--	6	178	3	0.01
140330	13:03:38.30	44°45.83'	110°41.18'	4.0	2.0W	10	186	4	0.10
140330	13:03:57.96	44°46.23'	110°43.63'	2.9	--	5	188	5	0.01
140330	13:04:00.93	44°45.14'	110°41.28'	3.4	2.0W	7	177	3	0.05
140330	13:06:58.06	44°46.30'	110°41.12'	4.5	1.8W	11	190	5	0.09

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140330	13:23:56.19	44°45.73'	110°41.28'	4.0	2.7W	24	91	4	0.21
140330	13:24:45.43	44°42.91'	110°40.56'	0.8	--	5	188	0	0.08
140330	13:25:52.23	44°45.75'	110°41.01'	3.9	2.0W	12	187	4	0.11
140330	13:28:02.06	44°46.46'	110°41.49'	3.7	1.4W	7	190	5	0.11
140330	13:28:11.82	44°46.19'	110°41.89'	2.3	1.1W	6	191	5	0.06
140330	13:28:15.85	44°47.75'	110°39.90'	3.8	2.6W	13	208	8	0.22
140330	13:30:40.37	44°45.41'	110°40.94'	1.8	1.9W	13	165	4	0.16
140330	13:30:52.09	44°46.18'	110°41.28'	4.4	3.5W	34	76	5	0.18
140330	13:33:12.85	44°47.63'	110°40.46'	1.8	--	6	215	8	0.06
140330	13:33:27.33	44°45.69'	110°42.20'	4.7	--	8	182	4	0.08
140330	13:33:31.95	44°45.76'	110°43.16'	3.6	0.8W	10	180	4	0.11
140330	13:33:37.02	44°46.93'	110°42.51'	3.8	2.1W	24	108	6	0.18
140330	13:33:44.31	44°45.73'	110°43.64'	2.6	2.4W	9	179	4	0.06
140330	13:34:04.65	44°45.13'	110°41.54'	5.8	--	8	176	3	0.08
140330	13:34:13.74	44°44.57'	110°44.81'	2.0	--	8	182	4	0.10
140330	13:34:27.60	44°46.42'	110°43.36'	2.2	0.3	8	190	5	0.06
140330	13:41:10.03	44°42.86'	110°42.27'	6.8	0.2	7	214	1	0.05
140330	13:41:17.23	44°46.43'	110°40.51'	4.1	1.9W	17	140	6	0.14
140330	13:50:48.12	44°46.51'	110°43.03'	3.9	--	16	187	6	0.20
140330	13:51:07.04	44°48.61'	110°42.44'	1.8	--	5	269	9	0.05
140330	13:52:42.88	44°46.56'	110°43.51'	4.1	1.4W	9	186	6	0.12
140330	13:52:51.39	44°46.38'	110°43.34'	2.1	--	8	190	5	0.08
140330	13:53:03.32	44°46.36'	110°42.88'	2.2	--	6	190	5	0.07
140330	13:54:40.23	44°45.90'	110°43.36'	2.7	1.7W	15	182	5	0.10
140330	13:55:11.80	44°46.40'	110°43.24'	4.2	1.7W	16	186	5	0.18
140330	13:56:41.02	44°45.66'	110°42.91'	3.9	2.9W	29	86	4	0.13
140330	13:57:45.79	44°45.95'	110°43.42'	3.5	2.3W	18	182	5	0.16
140330	14:00:11.58	44°43.41'	110°40.37'	5.0	1.9W	10	174	1	0.08
140330	14:00:36.35	44°42.16'	110°42.82'	4.7	--	6	175	3	0.03
140330	14:00:45.81	44°44.49'	110°41.14'	4.1	--	8	168	2	0.06
140330	14:07:07.33	44°45.81'	110°41.38'	2.2	--	7	186	4	0.12
140330	14:07:18.28	44°46.35'	110°41.13'	3.2	1.8W	15	190	5	0.11
140330	14:15:08.03	44°44.82'	110°41.98'	6.3	1.8W	6	170	2	0.01
140330	14:15:44.56	44°41.83'	110°42.21'	5.7	--	5	229	3	0.05
140330	14:16:22.41	44°43.22'	110°45.69'	5.5	--	5	222	5	0.07
140330	14:17:56.58	44°43.39'	110°42.69'	5.9	--	5	192	1	0.02
140330	14:18:36.89	44°46.27'	110°41.67'	-0.1	--	6	193	5	0.26
140330	14:18:40.02	44°46.54'	110°40.61'	3.7	1.8W	22	141	6	0.15
140330	14:19:04.59	44°46.62'	110°42.88'	3.9	--	20	142	6	0.16
140330	14:20:32.24	44°46.29'	110°42.97'	3.2	1.9W	11	186	5	0.13
140330	14:21:03.83	44°46.60'	110°41.02'	4.2	2.6W	11	193	6	0.15
140330	14:32:35.71	44°45.34'	110°41.34'	3.5	0.9	9	180	3	0.12
140330	14:33:11.56	44°46.64'	110°40.66'	4.3	1.7W	19	141	6	0.16
140330	14:33:26.02	44°44.66'	110°40.52'	3.5	0.4	9	172	3	0.05
140330	14:34:07.77	44°46.15'	110°43.94'	2.0	1.9W	14	185	5	0.07

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140330	14:40:07.56	44°46.46'	110°40.73'	4.0	2.1W	22	106	6	0.19
140330	14:40:41.54	44°45.61'	110°41.26'	3.8	2.2W	10	183	4	0.11
140330	15:07:49.05	44°47.30'	110°42.31'	5.1	3.4W	35	94	7	0.19
140330	15:08:14.48	44°44.92'	110°44.74'	2.6	--	5	187	4	0.06
140330	15:08:34.01	44°42.49'	110°43.46'	1.4	--	6	226	3	0.04
140330	15:09:13.00	44°44.15'	110°37.51'	5.4	--	5	201	5	0.08
140330	15:09:19.82	44°42.77'	110°46.16'	5.9	--	5	234	5	0.07
140330	15:11:52.03	44°46.63'	110°43.29'	1.9	1.9W	11	190	6	0.15
140330	15:12:24.33	44°46.83'	110°43.31'	3.5	3.7W	20	152	6	0.18
140330	15:13:45.78	44°46.01'	110°42.68'	2.0	1.5W	7	185	5	0.07
140330	15:16:22.55	44°46.22'	110°40.70'	3.6	1.8W	15	140	5	0.16
140330	15:16:40.77	44°43.78'	110°42.04'	5.8	--	6	156	0	0.01
140330	15:21:59.47	44°48.81'	110°41.17'	4.5	1.4W	6	260	10	0.04
140330	15:22:17.36	44°47.82'	110°41.89'	2.0	2.0W	7	193	8	0.09
140330	15:23:26.97	44°46.24'	110°42.01'	1.7	--	8	213	6	0.14
140330	15:23:39.43	44°45.90'	110°43.67'	6.6	2.4W	34	69	5	0.26
140330	15:24:23.04	44°46.45'	110°43.70'	3.1	--	6	229	6	0.08
140330	15:24:33.19	44°48.78'	110°40.08'	4.0	2.0W	20	112	10	0.14
140330	15:24:56.57	44°44.12'	110°38.80'	4.0	--	5	205	3	0.07
140330	15:25:01.04	44°45.01'	110°42.24'	6.0	--	6	172	3	0.05
140330	15:40:19.83	44°44.89'	110°44.54'	3.5	--	7	170	4	0.05
140330	15:40:29.96	44°45.98'	110°42.45'	7.3	--	5	187	6	0.06
140330	15:40:47.41	44°48.51'	110°40.66'	3.7	2.0W	25	150	9	0.16
140330	15:41:41.92	44°46.77'	110°46.84'	4.7	1.6W	16	182	6	0.10
140330	15:44:54.43	44°46.45'	110°43.00'	3.6	1.8W	21	140	5	0.16
140330	15:46:33.61	44°46.42'	110°41.17'	4.2	1.6W	15	140	5	0.17
140330	15:47:01.79	44°46.39'	110°40.40'	4.9	0.3	8	198	6	0.06
140330	15:47:21.77	44°46.06'	110°43.07'	2.0	1.7W	11	185	5	0.09
140330	15:47:42.04	44°46.54'	110°42.98'	2.3	-0.1	10	193	6	0.12
140330	15:49:02.49	44°46.47'	110°42.73'	5.7	1.5W	19	141	5	0.19
140330	15:57:29.84	44°46.40'	110°42.66'	3.9	1.7W	19	187	5	0.15
140330	16:05:09.24	44°46.00'	110°40.76'	4.6	2.0W	26	138	5	0.17
140330	16:08:04.87	44°46.32'	110°43.33'	2.7	1.5W	12	188	5	0.12
140330	16:18:08.27	44°46.98'	110°41.18'	3.5	1.5W	15	142	6	0.17
140330	16:22:39.13	44°46.77'	110°42.79'	3.8	1.8W	23	142	6	0.19
140330	16:30:11.54	44°45.97'	110°43.44'	4.0	2.3W	24	81	5	0.17
140330	16:46:03.33	44°47.49'	110°40.61'	3.6	1.2W	10	145	8	0.08
140330	16:55:23.48	44°43.49'	110°41.51'	2.2	1.7W	8	171	1	0.05
140330	16:55:54.21	44°45.03'	110°42.08'	3.1	1.6W	9	173	3	0.14
140330	17:02:33.52	44°46.54'	110°42.99'	3.4	1.6W	12	188	6	0.13
140330	17:26:04.64	44°45.82'	110°42.85'	1.9	1.6W	8	182	4	0.07
140330	17:29:40.89	44°46.47'	110°43.06'	4.0	2.1W	15	187	5	0.16
140330	17:30:16.42	44°43.39'	110°42.10'	6.0	--	6	182	0	0.02
140330	17:37:31.53	44°46.62'	110°42.81'	5.1	2.7W	25	128	6	0.19
140330	17:38:23.40	44°46.14'	110°42.64'	3.4	2.3W	15	188	5	0.16

Table 2. Earthquakes in the Yellowstone Region: January 1–March 31, 2014

DATE	ORIGIN TIME	LATITUDE	LONGITUDE	DEPTH	MAG	NO	GAP	DMN	RMS
140330	17:39:24.44	44°45.84'	110°43.14'	4.5	2.9W	21	80	4	0.16
140330	17:40:28.65	44°46.65'	110°42.97'	2.2	1.8W	10	195	6	0.12
140330	17:45:04.18	44°44.62'	110°42.31'	1.0	0.4	6	211	2	0.06
140330	17:45:21.26	44°46.85'	110°43.02'	4.6	1.9W	19	190	6	0.15
140330	17:46:50.76	44°47.15'	110°43.22'	3.5	1.6W	12	192	7	0.18
140330	17:49:20.59	44°46.49'	110°40.71'	1.0	1.7W	11	198	6	0.10
140330	18:48:30.97	44°47.05'	110°47.08'	5.2	1.2W	14	184	5	0.13
140330	18:58:10.09	44°47.04'	110°42.62'	4.1	2.0W	22	143	6	0.14
140330	20:32:18.40	44°45.59'	110°40.81'	1.5	1.6W	8	185	4	0.13
140330	20:32:57.30	44°46.39'	110°41.12'	3.3	2.0W	14	191	5	0.20
140330	22:24:50.60	44°30.44'	110°35.85'	2.0	1.4	9	189	8	0.21
140330	22:29:54.46	44°29.90'	110°34.91'	5.5	1.3W	10	115	7	0.13
140331	01:07:52.88	44°44.65'	110°46.16'	6.6	1.5W	15	150	6	0.11
140331	03:28:49.06	44°47.20'	110°41.13'	3.8	1.6W	16	144	7	0.18
140331	04:06:41.41	44°46.05'	110°41.23'	2.4	1.4W	11	187	5	0.14
140331	06:44:03.02	44°45.47'	110°38.80'	3.6	1.3W	11	188	5	0.15
140331	08:31:03.47	44°47.22'	110°40.94'	3.8	1.5W	17	144	7	0.18
140331	13:02:11.79	44°34.03'	110°44.81'	4.6	0.9W	10	95	9	0.10
140331	13:07:50.26	44°44.46'	110°45.70'	8.1	1.7W	18	150	5	0.12
140331	13:27:41.36	44°33.94'	110°44.75'	7.7	0.7W	10	94	9	0.11
140331	13:38:01.19	44°33.92'	110°44.20'	7.7	1.0W	13	91	9	0.15
140331	14:23:12.07	44°34.14'	110°44.73'	6.1	0.8W	11	91	9	0.10
140331	14:45:45.31	44°44.02'	110°46.27'	4.5	1.2W	13	139	5	0.15
140331	17:39:44.25	44°35.89'	110°22.27'	5.2	1.6W	8	178	4	0.03
140331	17:58:27.39	44°44.88'	110°39.61'	3.1	2.1W	21	133	4	0.18

number of earthquakes = 745

* indicates poor depth control

W indicates Wood-Anderson data used for magnitude calculation

Table 3
UNIVERSITY OF UTAH REGIONAL/URBAN SEISMIC NETWORK
Operating Seismograph Stations
March 31, 2014

UURSN	Location	SEED	SEED	No. of	Network	Latitude	Longitude	Elevation	Sensor	Digitizer	Telemetry	Sponsor		
Code		Station	Channel	Channels	Code			(meters)						
B206*	Canyon206bwy2008, Yellowstone, WY	B206	EH[ZEN]	3	PB	44° 46.66'	110° 30.70'	2400	IEESE-S2	Q330	Digital	PBO		
B207*	Madisn207bwy2007, Yellowstone, WY	B207	EH[ZEN]	3	PB	44° 37.14'	110° 50.91'	2182	IEESE-S2	Q330	Digital	PBO		
B208*	Lakejn208bwy2008, Yellowstone, WY	B208	EH[ZEN]	3	PB	44° 33.61'	110° 24.09'	2406	IEESE-S2	Q330	Digital	PBO		
B944*	Grantt944bwy2008, Yellowstone, WY	B944	EH[ZEN]	3	PB	44° 23.38'	110° 32.63'	2365	IEESE-S2	Q330	Digital	PBO		
B945*	Panthr944swy2008, Yellowstone, WY	B945	EH[ZEN]	3	PB	44° 53.64'	110° 44.65'	2249	IEESE-S2	Q330	Digital	PBO		
B950*	Norris950bwy2013, Yellowstone, WY	B950	EH[ZEN]	3	PB	44° 42.77'	110° 40.71'	2328	IEESE-S2	Q330	Digital	PBO		
FLWY*	Flagg Ranch, WY	FLWY	BH[ZEN]	3	IW	44° 04.96'	110° 41.96'	2078	3ESP	RT-130	Digital	ANSS		
H17A*	Grant Junction, Yellowstone, WY	H17A	BH[ZEN]	3	TA	44° 24.00'	110° 34.80'	2400	STS-2	Q330	Digital	ES		
IMW	Indian Meadows, WY	IMW	BH[ZEN]	3	IW	43° 53.58'	110° 56.58'	2670	3ESP	RT-130	Digital	ANSS		
LKWY*	Lake, WY	LKWY	BH[ZEN]	3	US	44° 33.91'	110° 24.00'	2424	STS-2	Q330	Digital	USGS		
LOHW*	National Elk Refuge, WY	LOHW	BH[ZEN]	3	IW	43° 36.76'	110° 36.30'	2245	3ESP	RT-130	Digital	ANSS		
MCID	Moose Creek, ID	MCID	EHZ	1	WY	44° 11.45'	111° 11.03'	2137	L4C	PSN	Analog	USGS		
QLMT*	Earthquake Lake, MT	QLMT	EHZ	1	MB	44° 49.84'	111° 25.80'	2064	L4C	-	Analog	MBMT		
REDW*	Red-Top Meadows, WY	REDW	BH[ZEN]	3	IW	43° 21.74'	110° 51.18'	2322	3ESP	RT-130	Digital	ANSS		
RRI2*	Red Ridge, ID	RRI2	BH[ZEN]	3	IW	43° 20.84'	111° 19.20'	2547	3ESP	RT-130	Digital	ANSS		
TPMT*	Teepe Creek, MT	TPMT	EHZ	1	MB	44° 43.79'	111° 39.94'	2518	L4C	-	Analog	MBMT		
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	ANSS-130	Analog	USGS		
			HH[ZEN]	3					40T				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					

UURSN	Location	SEED	SEED	No. of	Network	Latitude	Longitude	Elevation	Sensor	Digitizer	Telemetry	Sponsor
Code		Station	Channel	Channels	Code			(meters)				
YJC	Joseph's Coat (YNP), WY	YJC	EH[ZEN]	3	WY	44° 45.33'	110° 20.95'	2684	S13	PSN	Analog	USGS
YLA	Lake Butte (YNP), WY	YLA	EHZ	1	WY	44° 30.76'	110° 16.12'	2580	L4C	PSN	Analog	USGS
YLT	Little Thumb Creek (YNP), WY	YLT	EHZ	1	WY	44° 26.25'	110° 35.28'	2439	L4C	PSN	Analog	USGS
YMC	Maple Creek (YNP), WY	YMC	EH[ZEN]	3	WY	44° 45.53'	111° 00.41'	2073	S13	PSN	Analog	USGS
YML	Mary Lake (YNP), WY	YML	EH[ZEN]	3	WY	44° 36.20'	110° 38.63'	2653	L4C	PSN	Analog	USGS
YMP	Mirror Plateau (YNP), WY	YMP	EHZ	1	WY	44° 44.38'	110° 09.40'	2774	S13	PSN	Analog	USGS
			HH[ZEN]	3					Trillium 120			
			EN[ZEN]	3					Titan			
YMR	Madison River (YNP), WY	YMR	HH[ZEN]	3	WY	44° 40.12'	110° 57.90'	2149	Trillium 120	Q330	Digital	USGS
			EN[ZEN]	3					Titan			
YMS	Mount Sheridan (YNP), WY	YMS	EHZ	1	WY	44° 15.84'	110° 31.67'	3106	L4C	PSN	Analog	USGS
YMV	Mammoth Vault (YNP), WY	YMV	EHZ	1	WY	44° 58.42'	110° 41.33'	1829	L4C	PSN	Analog	USGS
YNE	Northeast Entrance (YNP), WY	YNE	HH[ZEN]	3	WY	45° 00.46'	110° 00.48'	2343	Compact	Taurus	Digital	USGS
YNM	Norris Museum (YNP), WY	YNM	HH[ZEN]	3	WY	44° 43.59'	110° 42.22'	2311	Trillium 240	Q330	Digital	USGS
YNR	Norris Junction (YNP), WY	YNR	HH[ZEN]	3	WY	44° 42.93'	110° 40.75'	2336	Trillium 120	RT-130	Digital	USGS
			EN[ZEN]	3					Titan			
YPC	Pelican Cone (YNP), WY	YPC	EHZ	1	WY	44° 38.88'	110° 11.55'	2932	L4C	PSN	Analog	USGS
YPK	Parker Peak (YNP), WY	YPK	EH[ZEN]	3	WY	44° 43.91'	109° 55.32'	2897	L4C	PSN	Analog	USGS
YPM	Purple Mountain (YNP), WY	YPM	EHZ	1	WY	44° 39.43'	110° 52.12'	2582	L4C	PSN	Analog	USGS
YPP	Pitchstone Plateau (YNP), WY	YPP	EHZ	1	WY	44° 16.26'	110° 48.27'	2707	S13	PSN	Analog	USGS
			HH[ZEN]	3					Trillium 120			
			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			
			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

* Station operated by another agency and recorded as part of the Yellowstone Seismic Network
Network Statistics: 136 data channels from 42 stations were being recorded at the end of this report period

EXPLANATION OF TABLE

UURSN Code: Station code formerly 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/dms/nodes/dmc/services/network_codes>> for information about registered seismograph network codes. Network codes referenced in this table:

Network Code	Network name; Network operator or responsible organization
IE	Idaho National Laboratory Seismic Network
IU	IRIS/USGS Network; USGS Albuquerque Seismological Laboratory
IW	Intermountain West Network, U.S. Geological Survey

MB	Montana Regional Seismic Network; Montana Bureau of Mines and Geology
PB	Plate Boundary Observatory
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 L4 or L4C short-period seismometer
S13, 18300	Geotech S13 or 18300 short-period seismometer
Ranger	Kinometrics Ranger short-period seismometer
40T	Guralp CMG-40T broadband seismometer
3T	Guralp CMG-3T broadband seismometer
3ESP	Guralp CMG-3ESP broadband seismometer
STS-2	Streckheisen STS-2 broadband seismometer
FBA23	Kinometrics FBA-23 accelerometer
EpiSensor	Kinometrics EpiSensor accelerometer
Applied Mems	Applied Mems accelerometer
PA-23	Geotech PA-23 accelerometer
Compact	Nanometrics Compact broadband seismometer
Trillium 120	Nanometrics Trillium 120 broadband seismometer
Trillium 240	Nanometrics Trillium 240 broadband seismometer
Titan	Nanometrics Titan accelerometer
Observer	Refraction Technology (REF TEK) Model 151 Observer broadband seismometer
IESE-S2	Institute of Earth Science and Engineering S-2 model borehole seismometer

Digitizer	Description
K2	Kinometrics Altus Series K2 (19-bit resolution field digitizer)
Etna	Kinometrics Altus Series Etna (18-bit resolution field digitizer)
72A-07	Refraction Technology (REF TEK) model 72A-07 (24-bit field digitizer)
72A-08	Refraction Technology (REF TEK) model 72A-08 (24-bit field digitizer)
ANSS-130	Refraction Technology (REF TEK) model 130-ANSS/02 (24-bit resolution field digitizer)
RT-130	Refraction Technology (REF TEK) model RT-130 (24-bit resolution field digitizer)
Q330	Quanterra, Inc Q330 digitizer (24-bit resolution field digitizer)
SMART-24	Geotech SMART-24 digitizer (24-bit resolution field digitizer)
PSN	PSN-ADC-SERIAL version III (16-bit resolution field digitizer)
Basalt	Kinometrics Basalt (24-bit resolution field digitizer)
Taurus	Nanometrics Taurus (24-bit resolution field digitizer)

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
MBMT	Montana Bureau of Mines and Geology
PBO	Plate Boundary Observatory
ES	EarthScope

NETWORK CHANGES DURING JANUARY 1-MARCH 31, 2014

March 26	B205 replaced by B950
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