

5 USGS and Lamont-Doherty Cooperative Seismographic Network (LCSN) reported events

Date (year/mo/dy)	Time (hh:mm:sec)	Latitude (°N)	Longitude (°W)	Depth (km)	Magnitude	Location
2014/03/10	06:26:45.9	41.010	80.543	2.5	3.0	31 km (19 mi) SSE of Youngstown, OH
2014/03/10	06:42:44.1	41.009	80.555	5.0	2.4	31 km (19 mi) SSE of Youngstown, OH
2014/03/10	15:03:47.7	41.010	80.530	5.0	2.2	31 km (19 mi) SSE of Youngstown, OH
2014/03/10	15:44:06.8	41.009	80.532	5.0	2.6	32 km (20 mi) SSE of Youngstown, OH
2014/03/11	07:01:13.0	41.002	80.534	5.2	2.1	32 km (20 mi) SSE of Youngstown, OH

Additional 7 shocks are detected by detailed analysis of seismic records around the epicentral area. Events are detected based on their waveform similarity with the reference event on 03/10/2014 06:26:45.9 (M 3.0), so locations are fixed to the reference event. These shocks are quite small (M 1.2 – 2.2) and are not felt by residents.

Date (year/mo/dy)	Time (hh:mm:sec)	Location & depth fixed to shock on 2014/03/10 06:26:45			Magnitude
2014/03/04	23:14:01.10	41.010	80.543	2.54	1.36
2014/03/05	03:05:19.18	41.010	80.543	2.54	2.24
2014/03/05	06:12:15.08	41.010	80.543	2.54	1.47
2014/03/06	15:31:03.70	41.010	80.543	2.54	1.58
2014/03/10	06:12:35.65	41.010	80.543	2.54	1.18
2014/03/10	06:23:10.68	41.010	80.543	2.54	1.44
2014/03/10	14:41:17.03	41.010	80.543	2.54	1.52

March 13, 2014

Won-Young Kim, Lamont-Doherty Cooperative Seismographic Network (LCSN)
Lamont-Doherty Earth Observatory of Columbia University