From: USGS ENS
To: taja@taja.org
Subject: 2019-08-16 00:02:37 (M4.7) Western Montana 45.9 -111.4 (5844d)
Date: Thursday, August 15, 2019 6:23:26 PM

M4.7 Earthquake - Western Montana

Preliminary Report

Magnitude	4.7
Date-Time	16 Aug 2019 00:02:38 UTC 15 Aug 2019 18:02:38 near epicenter 15 Aug 2019 17:02:38 standard time in your timezone
Location	45.862N 111.358W
Depth	9 km
Distances	2.0 km (1.3 mi) WNW of Manhattan, Montana 32.0 km (19.9 mi) NW of Bozeman, Montana 92.6 km (57.4 mi) E of Butte, Montana 96.7 km (59.9 mi) SSE of Helena, Montana 101.0 km (62.6 mi) E of Butte-Silver Bow (Balance), Montana
Location Uncertainty	Horizontal: 0.6 km; Vertical 1.1 km
Parameters	Nph = 27; Dmin = 5.2 km; Rmss = 0.22 seconds; Gp = 88° M-type = ml; Version = 5
Event ID	mb 80357599

For updates, maps, and technical information
see: Event Page or USGS Earthquake Hazards Program
Montana Regional Seismic Network
Montana Bureau of Mines and Geology
http://mbmgquake.mtech.edu

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