From: USGS ENS
To: taja@taja.org
Subject: 2019-08-23 22:34:32 (M2.9) Western Montana 45.9 -111.4 (5844d)
Date: Friday, August 23, 2019 4:50:12 PM

M2.9 Earthquake - Western Montana

Preliminary Report

Magnitude	2.9
Date-Time	23 Aug 2019 22:34:32 UTC 23 Aug 2019 16:34:32 near epicenter 23 Aug 2019 15:34:32 standard time in your timezone
Location	45.857N 111.374W
Depth	3 km
Distances	3.2 km (2.0 mi) W of Manhattan, Montana 32.7 km (20.3 mi) NW of Bozeman, Montana 91.5 km (56.7 mi) E of Butte, Montana 96.4 km (59.8 mi) SSE of Helena, Montana 99.7 km (61.8 mi) E of Butte-Silver Bow (Balance), Montana
Location Uncertainty	Horizontal: 0.3 km; Vertical 11.3 km
Parameters	Nph = 29; Dmin = 34.9 km; Rmss = 0.15 seconds; Gp = 86° M-type = ml; Version = 4
Event ID	mb 80358459

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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