

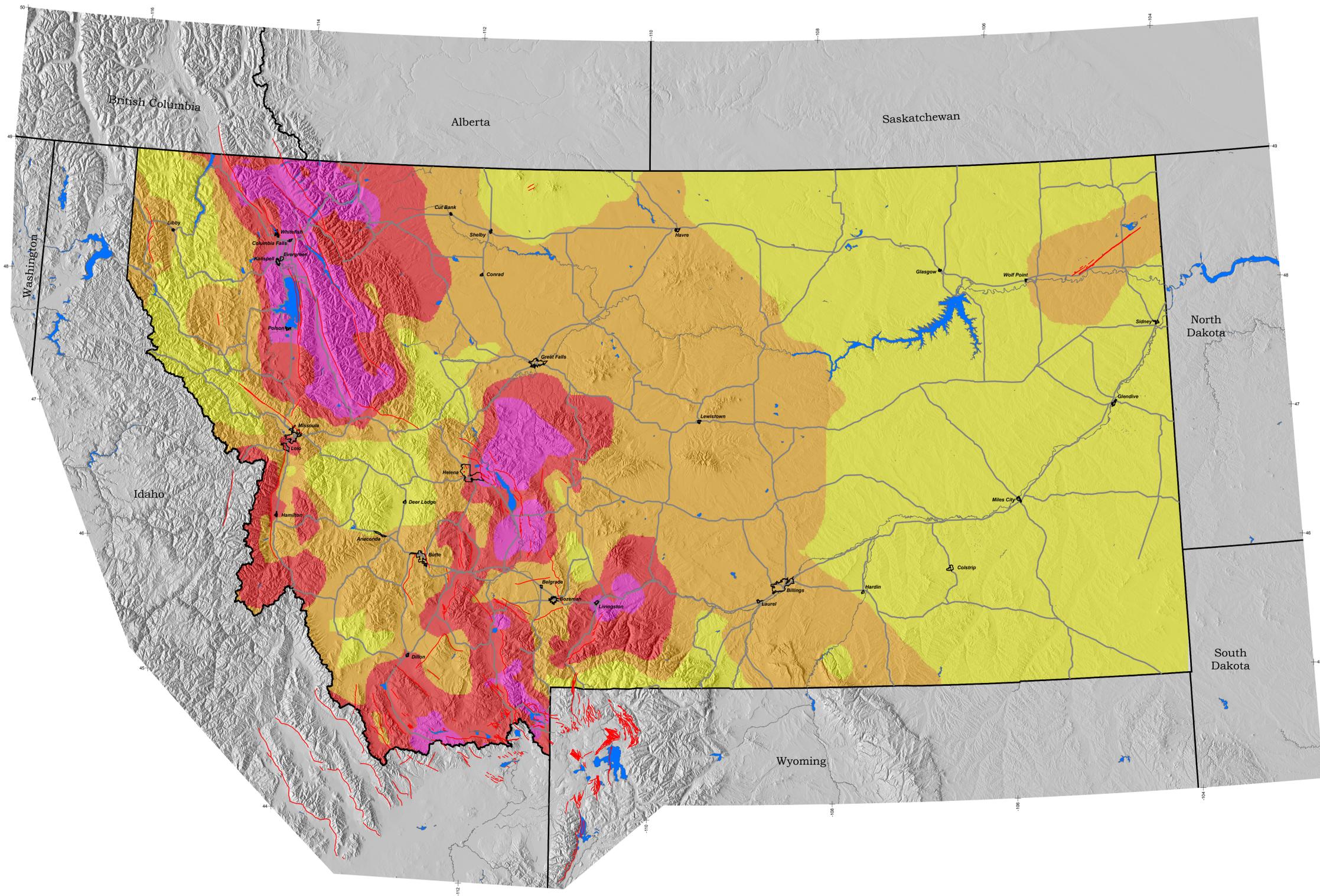
Plate 25 1% Probability of Exceedance in 50 Years Modal Magnitude for Peak Horizontal Acceleration Hazard on Rock

MBMG Publication XXX

Probabilistic Earthquake Ground Shaking Maps for the State of Montana

by
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Modal Magnitude

- 5.0 – 5.4
- 5.5 – 5.9
- 6.0 – 6.4
- 6.5 – 6.9
- 7.0 – 7.5

Quaternary Faults

Fault Database modified from Stickney and others, 2000
(See Appendix for other fault map sources)

Limitations

There are large uncertainties associated with earthquake ground motion prediction in Montana due to limited region-specific information and data on the characteristics of seismic sources and ground motion attenuation. Additional uncertainty stems from the characterization of the subsurface geology beneath the map area and the estimation of the associated site response effects on ground motions.

The maps should not be used directly for site-specific design or in place of site-specific hazard evaluations.

