

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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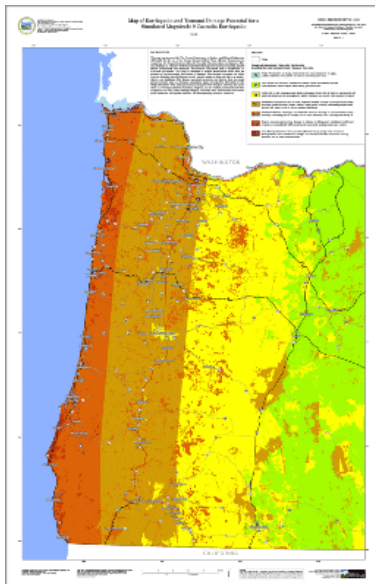


NEWS RELEASE: June 21, 2013

Earthquake impact data for 2012 Oregon Resilience Plan released

Areas of state at risk for strong shaking, earth movement, and tsunami inundation from Cascadia Subduction Zone earthquake mapped

Portland, Oregon: During the 2011 Oregon Legislative Assembly the House of Representatives passed House Resolution 3, which acknowledged the threat posed to Oregon by great earthquakes from the Cascadia Subduction Zone. The Resolution also charged the Oregon State Seismic Safety Policy Advisory Commission (OSSPAC) to prepare a [resilience plan for Oregon](#) that would estimate current vulnerabilities to earthquake-related hazards. The Plan also recommends policies to address those vulnerabilities and increase the state's resilience to a great earthquake. The Plan and recommendations were delivered to the Oregon Legislative Assembly on February 28, 2013.



To create the Oregon Resilience Plan, OSSPAC developed a strategy that involved the use of workgroups to analyze the vulnerability of their respective sectors to the chosen earthquake scenario, a magnitude 9.0 (M 9.0) great subduction earthquake off the coast of Oregon, accompanied by a large tsunami. The Cascadia Earthquake Scenario workgroup was charged with developing a description of the likely ground motion (strength of shaking) and ground deformation (earth movements) to be expected from the scenario event, as well as maps of the likely tsunami inundation for coastal cities.

<< *Map of Earthquake and Tsunami Damage Potential for a Simulated Magnitude 9 Cascadia Earthquake (Plate 7 of O-13-06). Red indicates very heavy damage potential; green indicates very light damage potential.*

DOGAMI Open-File Report O-13-06, Ground motion, ground deformation, tsunami inundation, coseismic subsidence, and damage potential maps for the 2012 Oregon Resilience Plan for Cascadia Subduction Zone Earthquakes, by Ian P. Madin and William J. Burns, contains definitive digital versions of the data and maps used by the Oregon Resilience Plan workgroups and OSSPAC as well as a description of the data sources and methods used to prepare the scenario maps. This information will be useful to those interested in regional Cascadia ground motion and ground failure models. **Note that these maps are not appropriate for site specific investigations, and investigations using site specific data are likely to produce results that vary from what is shown on these maps.**

DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

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<http://www.oregongeology.org/pubs/ofr/p-O-13-06.htm>

DOGAMI Open-File Report O-13-06 can be purchased on DVD for \$30 each from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 965, Portland, Oregon, 97232. You may also call NNW at (971) 673-2331 or order online at <http://www.NatureNW.org>. There is a \$4.95 shipping and handling charge for all mailed items.

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The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing an understanding of the state's geologic resources and natural hazards. The Department then makes this information available to communities and individuals to help inform and reduce the risks from natural hazards, such as earthquakes, tsunamis, landslides, floods and volcanic eruptions. The Department assists in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards is key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

Learn more about Oregon's geology online: <http://www.OregonGeology.org>

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