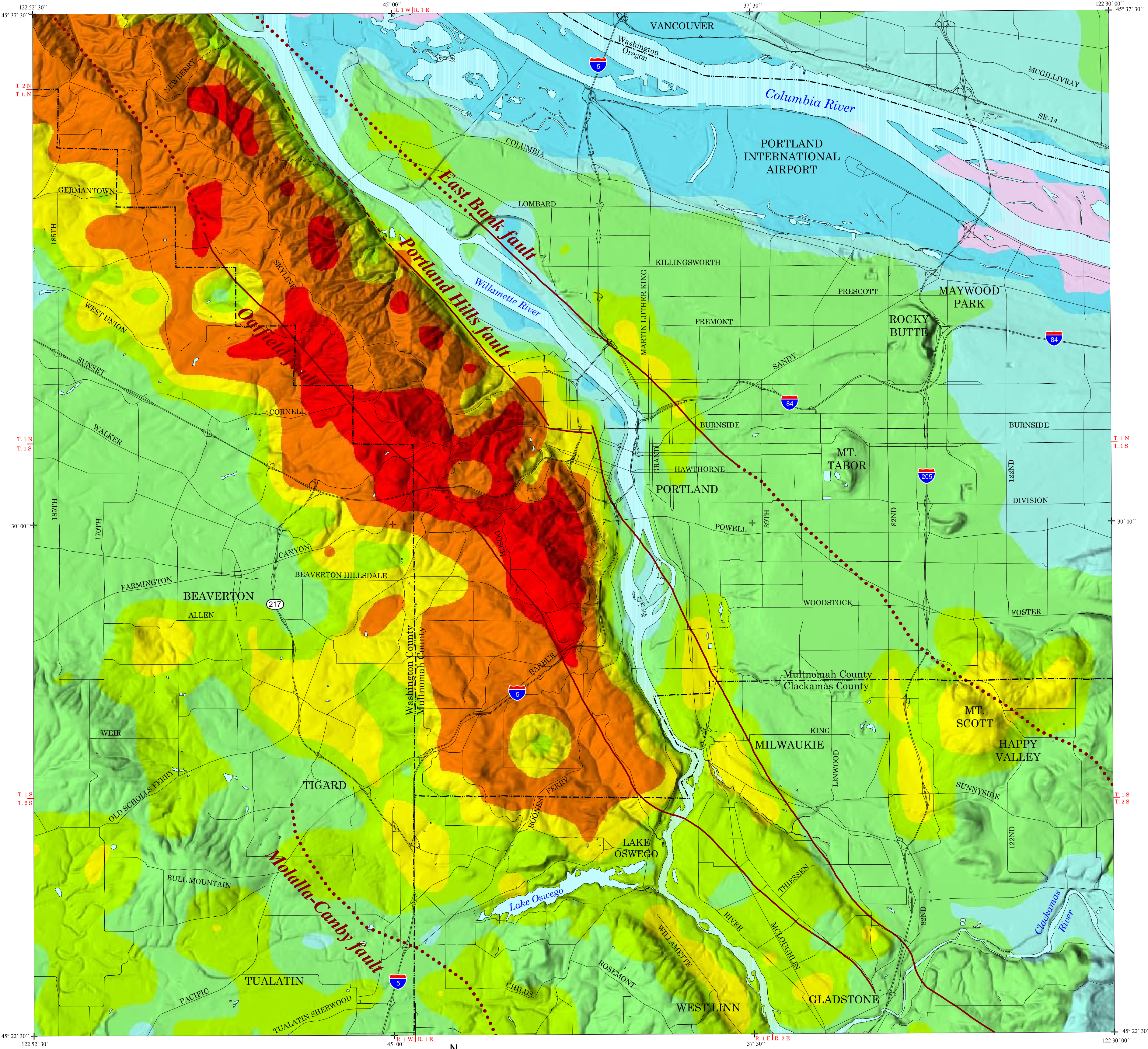


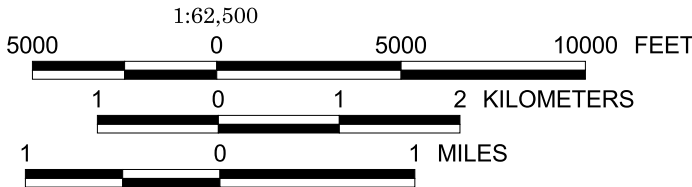
10% Probability of Exceedance in 50 Years  
0.2 Second Spectral Acceleration (g) at the Ground Surface

STATE OF OREGON  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
JOHN D. BEAULIEU, STATE GEOLOGIST



Base Map Data from REGIONAL LAND INFORMATION SYSTEM,  
Metro Data Resource Center. Relief Shading Derived From  
USGS 7.5 Minute Quadrangle Digital Elevation Model Data.

Universal Transverse Mercator Projection, Zone 10  
1927 North American Datum.



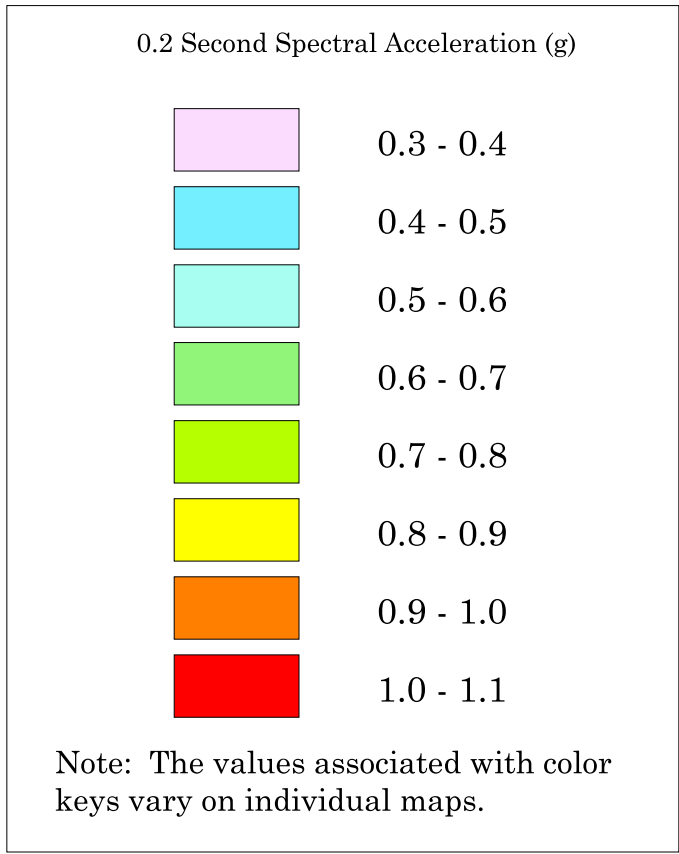
IMS - 16

Earthquake Scenario and Probabilistic Ground Shaking Maps  
for the Portland, Oregon, Metropolitan Area

by

Ivan Wong, Walter Silva, Jacqueline Bott,  
Douglas Wright, Patricia Thomas, Nick Gregor,  
Sylvia Li, Matthew Mabey, Anna Sojourner, and Yumei Wang

10% Probability of Exceedance in 50 Years  
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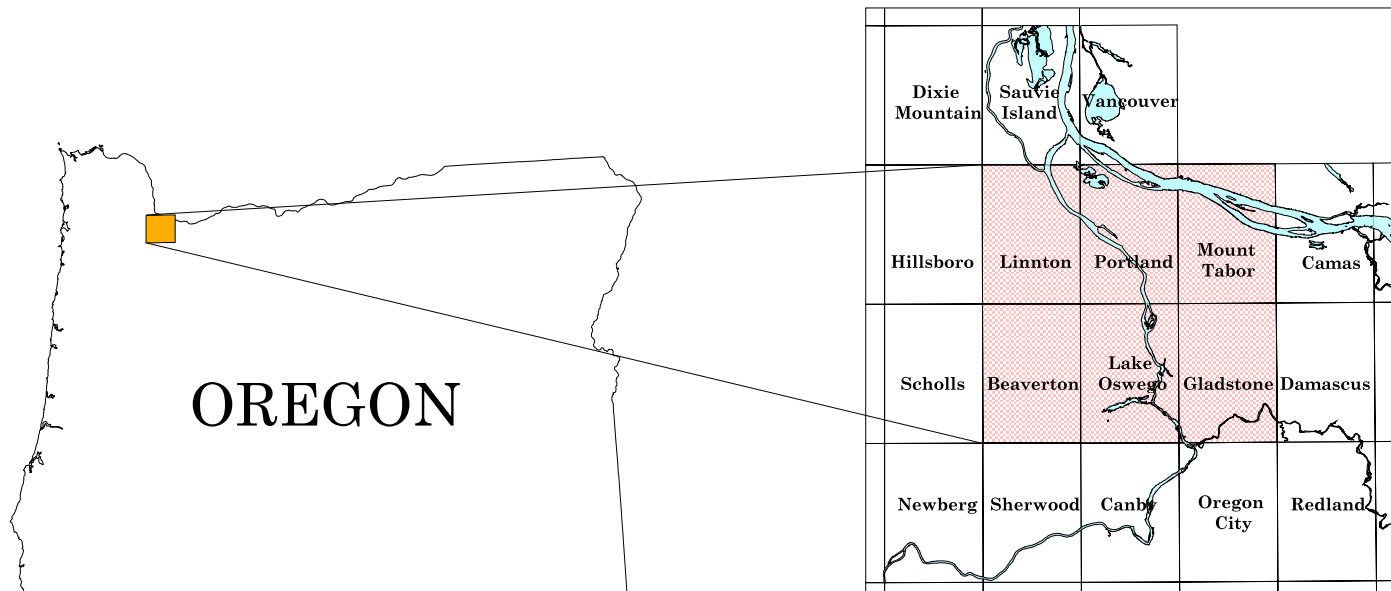


POTENTIALLY SEISMOGENIC FAULTS

- Mapped
- Inferred in this study
- Interpreted from aeromagnetic data

Data Sources: Madin, 1990, Beeson et al., 1991, and  
Blakely et al., 1995

Note: The locations of faults as depicted on these maps  
may have errors of up to 500 meters or more, particularly  
if they are concealed or based on aeromagnetic data.



MAP AREA LOCATION

USGS 7½ Minute Quadrangles

Limitations

There are large uncertainties associated with ground motion prediction in the Pacific Northwest due to a limited amount of region-specific information and data on the characteristics of seismic sources and ground motions. In the portrayal of the Cascadia subduction zone scenario, the uncertainties in the geometry and eastward extent of the rupture are particularly large. Additional uncertainty stems from the characterization of the subsurface geology beneath Portland and the estimation of the associated site response effects on ground motions. Thus the maps should not be used for site-specific design or in place of site-specific hazard evaluations.

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