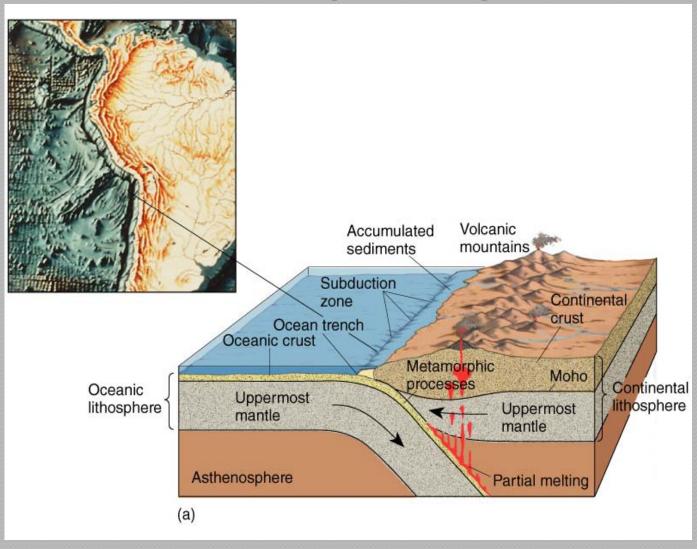
Earthquake Potential and Preparedness in the Northwest -Our Setting



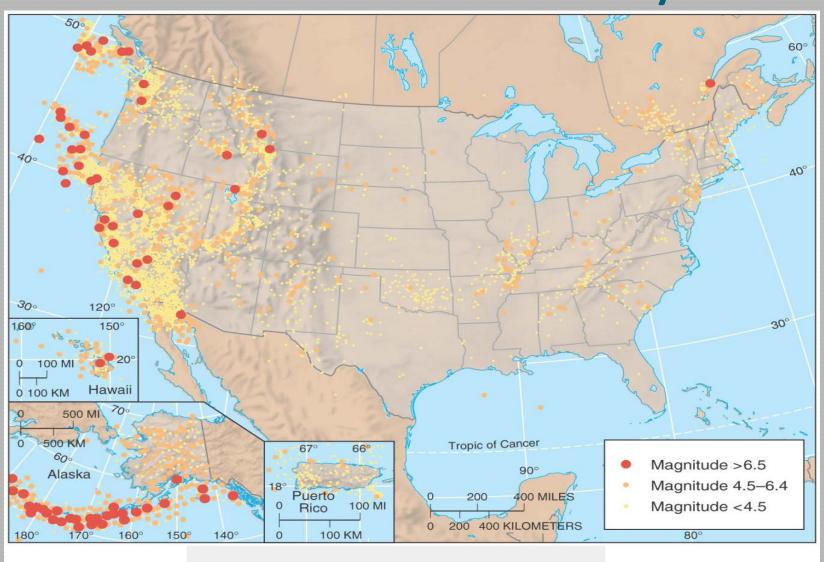
http://getanylink.com

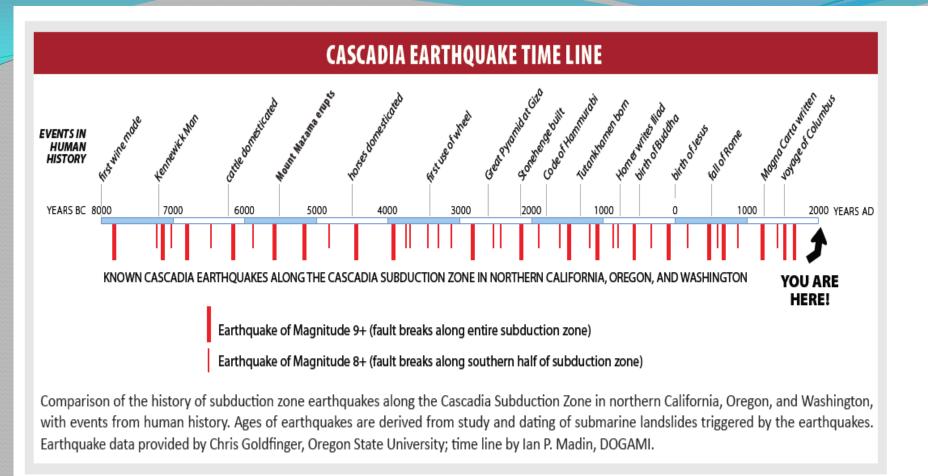


Oceanic- Continental Collision – The Cascadia Zone, Oregon's "Big One"



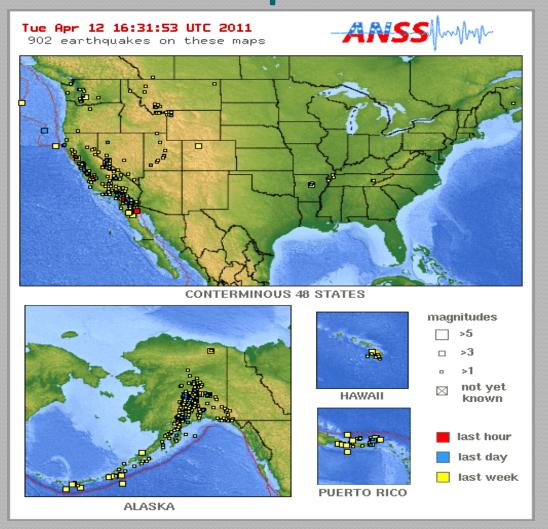
Historical Seismicity



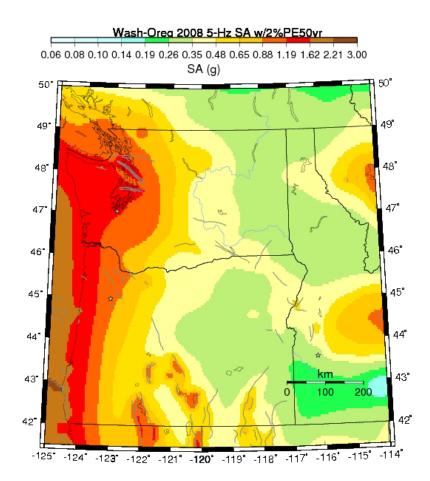


This timeline compares the 10,000-year-long history of Cascadia earthquakes to events in human history.

Local Earthquake Activity



Oregon-Washington Seismic Risk Map based upon ground peak accelerations during an earthquake. (USGS, 2008)



Nature of Local Damage

- Most vulnerable buildings: Unreinforced Mason Buildings (URM's); most building in downtown Ashland are of this type!
 - Some local buildings made of un-reinforced masonry; a current exception is Churchill Hall on the SOU campus which has just undergone a seismic retrofit.



Jackson County Courthouse 1939



Ashland Springs Hotel



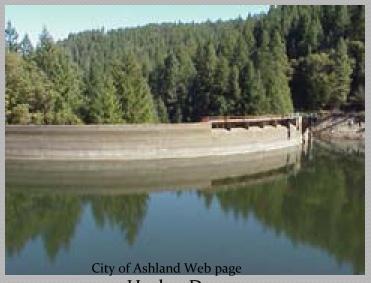
Churchill Hall, SOU

Vulnerable Structures

- I-5 Viaduct
- Bridges
- Dams
- Cell towers
- Transformers
- Water treatment plants



I-5 Viaduct S tockwell photos.com



Hosler Dam

The Nisqually Earthquake

- Occurred at 10:54 AM, February 28, 2001
- M: 6.8, Duration: 45 seconds, Focus (depth) 52 km (32 miles).
- 400 people injured (one death from a heart attack at the time).
- Most property damage to unreinforced concrete/ masonry buildings. The Alaskan Way Viaduct also damaged. Seattle's 4th Avenue Bridge damaged beyond repair.
- Extensive power outages in the greater Seattle area.

Damage from the Nisqually Earthquake, 2001









72 Hours Self Sufficient

- You may need to be entirely self sufficient for three days
- You may have to find your own:
 - food,
 - water,
 - emergency supplies,
 - and possibly shelter



- Police, fire & ambulance service may be disrupted due to damaged streets and bridges
- You may have to turn off a leaky gas line or other utility at home or work.

know where utility shut-offs are & how to turn them off

• do you need a special tool?



Have a Disaster Plan

- Evacuation routes & drills
 - Work plans
 - School plan
- Meeting places
- Communication plan
 - I'M OK
 - 2 out of town contacts
- Pets & livestock plan
- Individuals with special needs

Thank you