

Giles Nelson

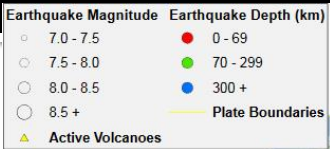
# Emergency Preparedness

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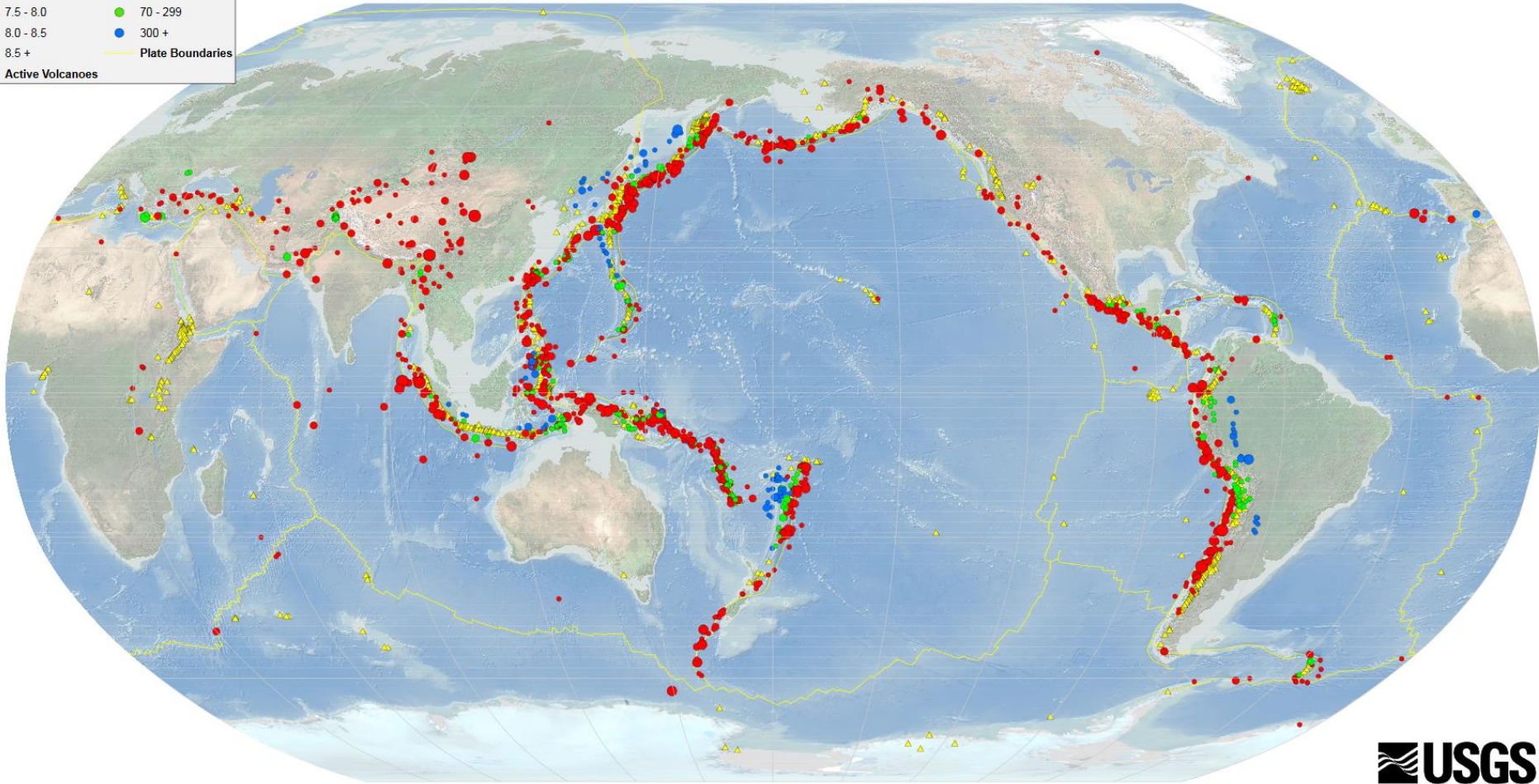
# Emergency Preparedness: Risk Overview

- Risks we face: Wild fire, Windstorms, Heavy snows, and a **Major ~9.0 Earthquake and resulting tsunami.**
- Google “2016 Cascadia Rising after action report” for document of the studies results.
- “A full rupture of the Cascadia Subduction Zone (CSZ) will result in impacts beyond the response capabilities of the region and will require resources from **around the world** to effectively respond and recover.”
- What to expect? No Police or Fire Dept’s available: they will be overwhelmed. Food, water & fuel will be sold out in an ugly mad dash. No electricity, gas, water, sewer & likely no communications for some time. Maybe cell text messages and land lines will work but unknown at this time.

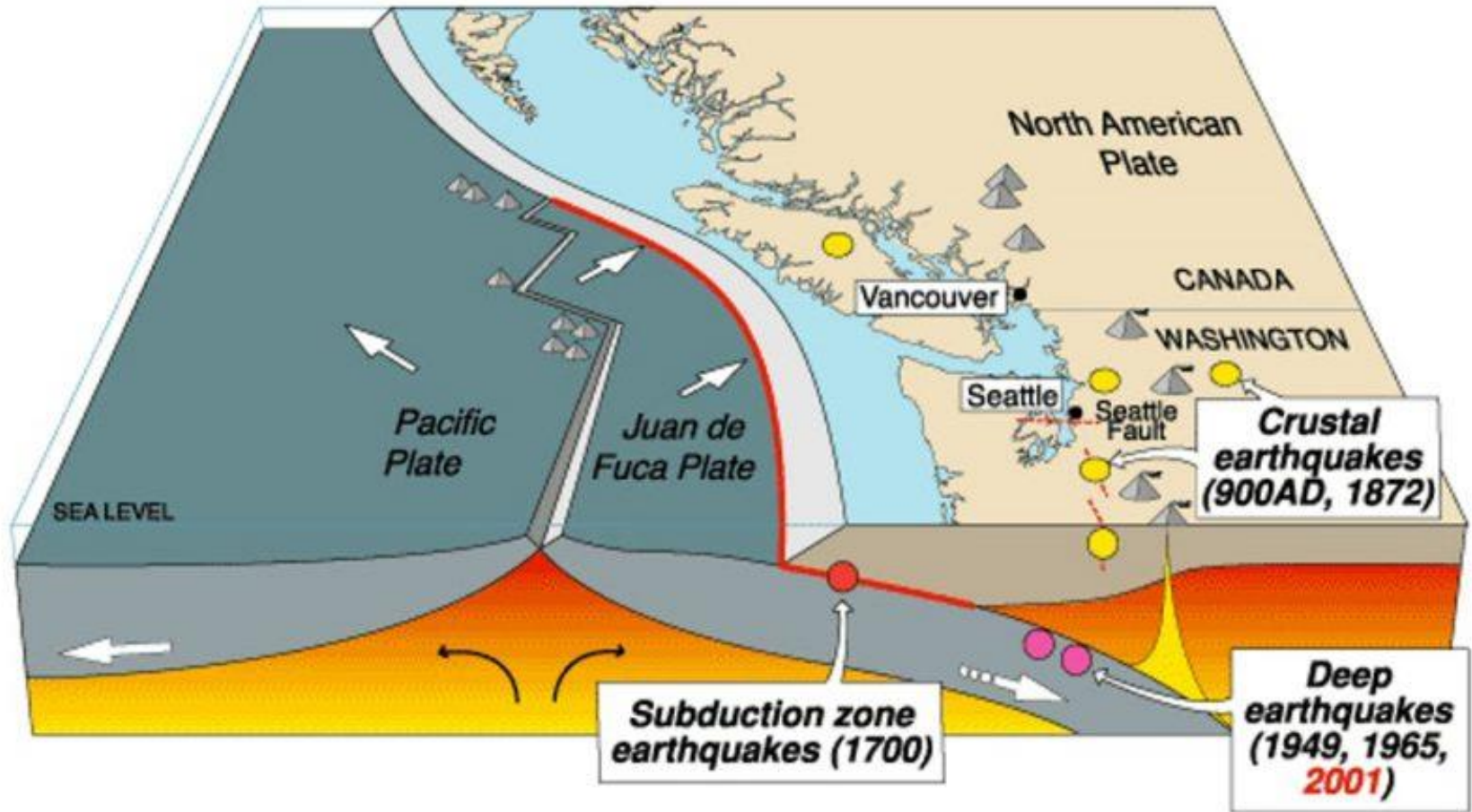
# The Pacific Plate EQ's 1900-2013



Global Earthquakes 1900 - 2013



# CSZ: The Juan de Fuca Plate



# CSZ Earthquake frequency

- The last known CSZ earthquake was on January 26, 1700, almost 320 years ago. The Pacific Northwest experienced the 1700 Cascadia earthquake (~8.7 – 9.2) and tsunami which had an impact as far away as Japan ... with a reoccurrence interval estimated between **300 to 500 years.**
- Frame of reference: The Nisqually quake on Feb 28, 2001 was a 6.8 on the Richter scale. A 7.8 quake would be 10 times more energy released and an 8.8 would be 100 times greater.

# CSZ road damage & public usage

- “In total, there are about 7,000 bridges on state, city and county road systems according to WSDOT.”
- “When a magnitude-8.7 or higher quake hits ... Life-safety access will become the top priority as crews clear roads for first responders and other essential vehicles. All public traffic will be halted after a major disaster...”

**I.E. YOU WILL BE WALKING TO GET HOME AFTER A LARGE EARTHQUAKE: PREPARE NOW!**

# What you can do...

- Put emergency food, water & supplies in all commuter cars in a backpack plus coat, hat, boots, flashlights, extra batteries, space blankets, pad & umbrella.
- If you are a commuter, put a \*Paper map\* with an agreed upon route home highlighted that you will follow as best as possible. Expect to be walking home and spending a night or two out.
- Buy a generator and at least 2 - 5 gal gas containers. Harbor Freight's Black Friday sale: \$299 for a 4000W unit.
- Buy a hand pump to siphon gas out of car gas tanks for generator: Johnsons Hardware. ~\$18
- Keep your car{s} gas tanks mostly filled.
- Wire a wrench to your homes gas main to shut it off ASAP to prevent a gas explosion and fire.
- Know where your main water shut off valve in your home is and make sure it is CLEARLY MARKED.
- Sign up for emergency alerts: [alert.seattle.gov](http://alert.seattle.gov)

# More you can do...

- Join CERT (Citizens Emergency Response Team) through the Fire Dept. Next class date pending. Signup sheet for those interested.
- HOAs & local clubs:
  - organize local medical talent if they're willing to help in an emergency,
  - communications organized and practiced with hand held radios, - are there any ham or amateur radio operators in your group?
  - organized group level emergency help response teams once peoples own homes and lives are under control.
- DO NOT expect your neighbors to take care of your families food & water needs.
- ***You need to prepare ahead of time or likely go without!***



# The Good News!

- Most of us live in wood frames homes. One of the best structures to survive an EQ. We will survive one way or another.
- If it happens in our lifetimes, once the aftershocks are done, the typical cycle for a 9.0 is 300-500 years so we're all good to go from there on.
- The rebuilding of the area will be a giant economic stimulus.
- Think of the story you'll have to share! ;-)

# Conclusions

- While “The Big One” may not happen soon, it very well might.
- Being prepared gives you some peace of mind knowing that you have a plan.
- “IF” it happens, you and yours will make it through it WAY BETTER than if you do nothing.
- Efforts spent on Earthquake preparedness will all apply to other emergencies that could happen like fires, heavy snows, wind events, etc.
- Have a nice day! :-)