

GNSS-A Update & Future Options

Current Network

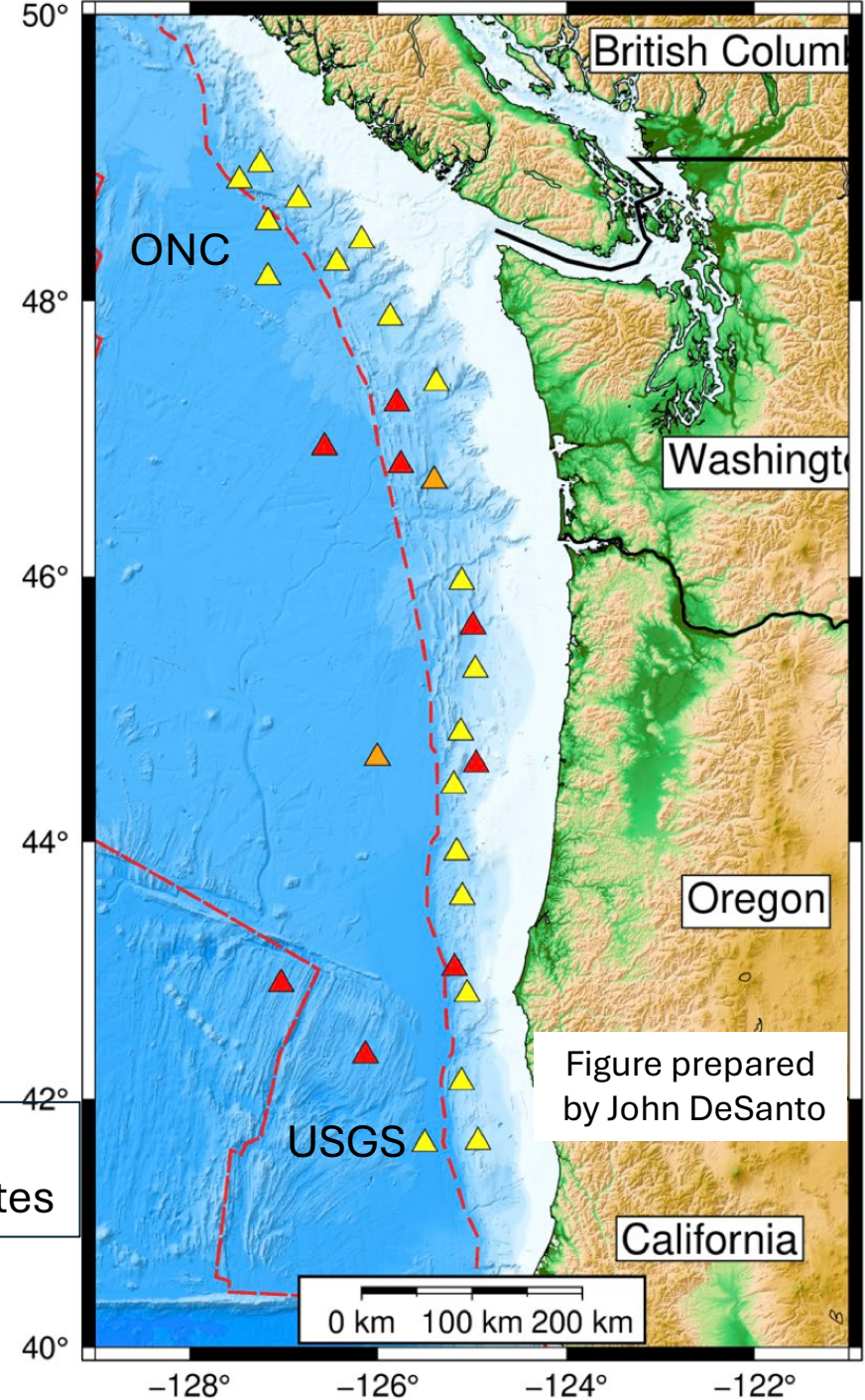
- 7 sites operated by Ocean Networks Canada
- 9 operated by the Community Experiment
 - 2 unoccupied sites
- 3 operated by the USGS

Expansion Options

- SZ4D may place up to 9 sites in Cascadia

Possible Prioritization for Placement

- Densify along-strike
- Add a couple sites on the oceanic plate
- Consider spar-buoys on the shelf
- Leverage seafloor cables

- 
- ▲ Operational Sites
 - ▲ Possible Future Sites



Funding for the US instrument pool: NSF Director, Polar, OCE, GEO
Funding for the community experiment ops: NSF-MGG

GNSS-A Update & Future

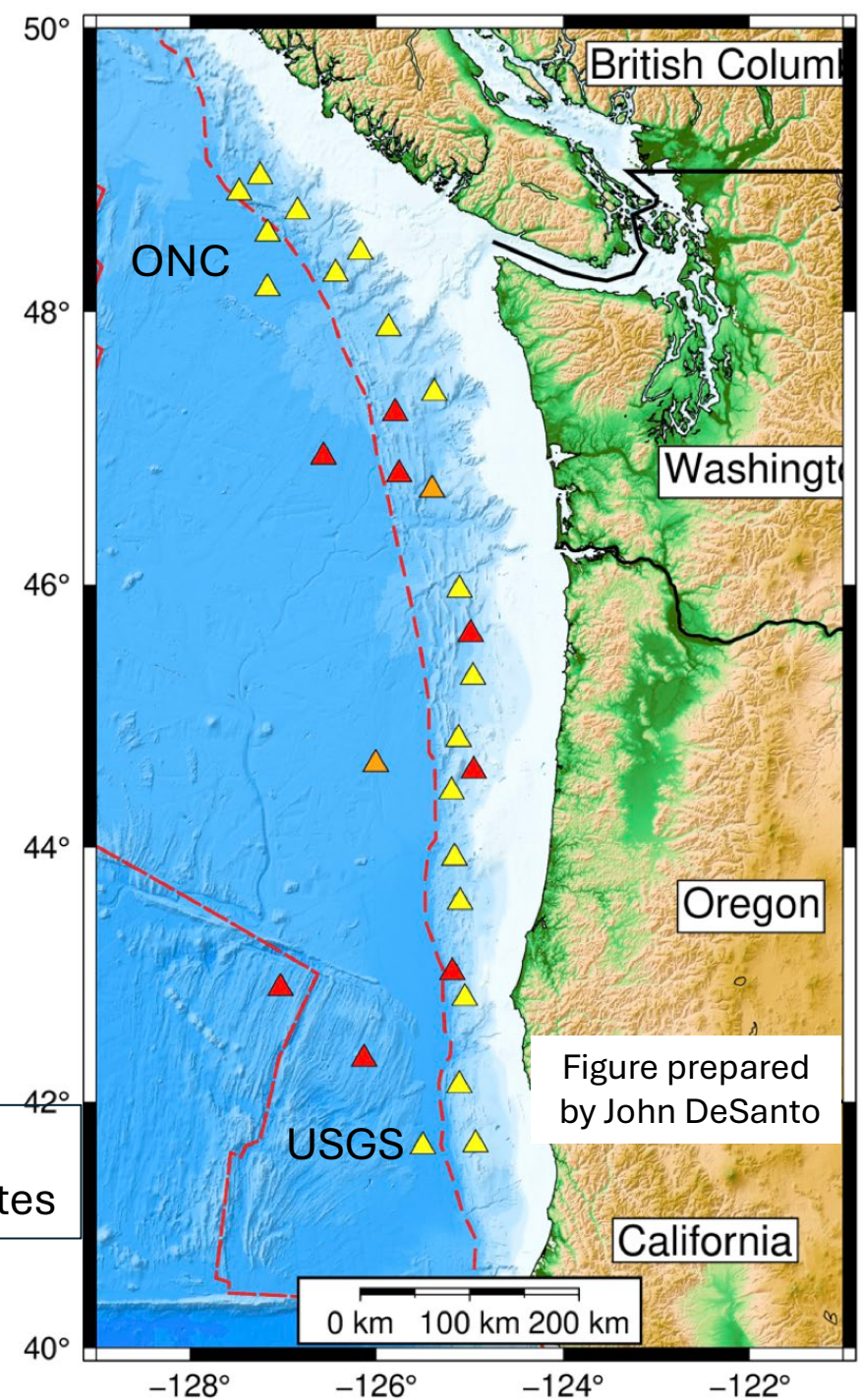
Science Targets (where seafloor geodesy can help)

- Offshore interseismic locking
- Offshore Transient deformation (seafloor pressure)
- Internal deformation of the accretionary prism
- Activity on splay faults
- Subducted seamounts
- Deformation of incoming oceanic plate

Other considerations

- Need for complimentary instrumentation and other observations (e.g. structural, seismicity)

▲ Operational Sites
▲ Possible Future Sites



Funding for the US instrument pool: NSF Director, Polar, OCE, GEO
Funding for the community experiment ops: NSF-MGG