# **Canadian Perspective**



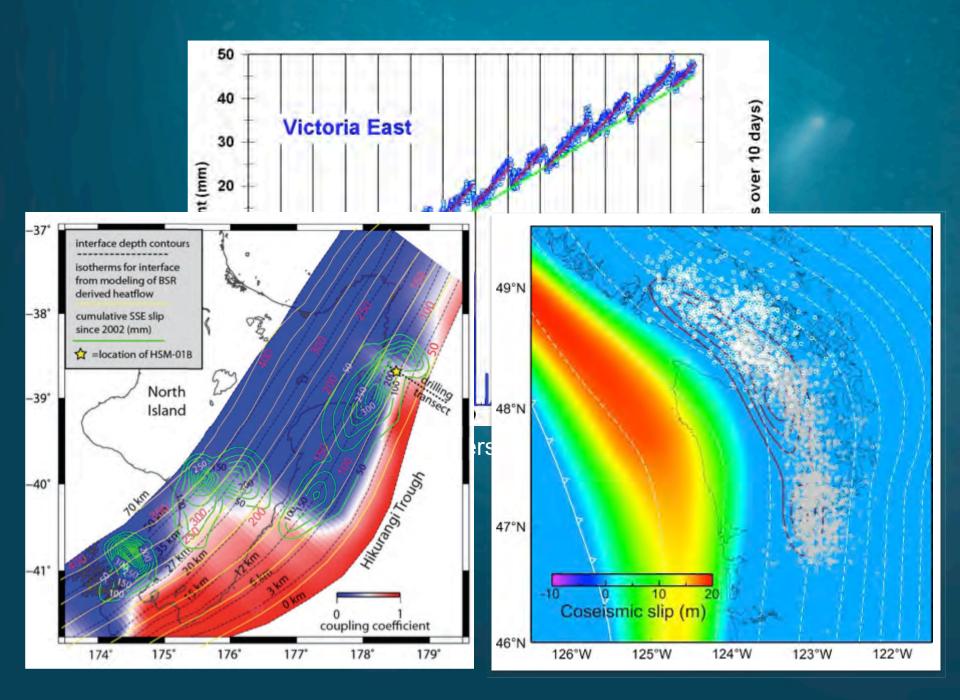
Port Alberni CATADA

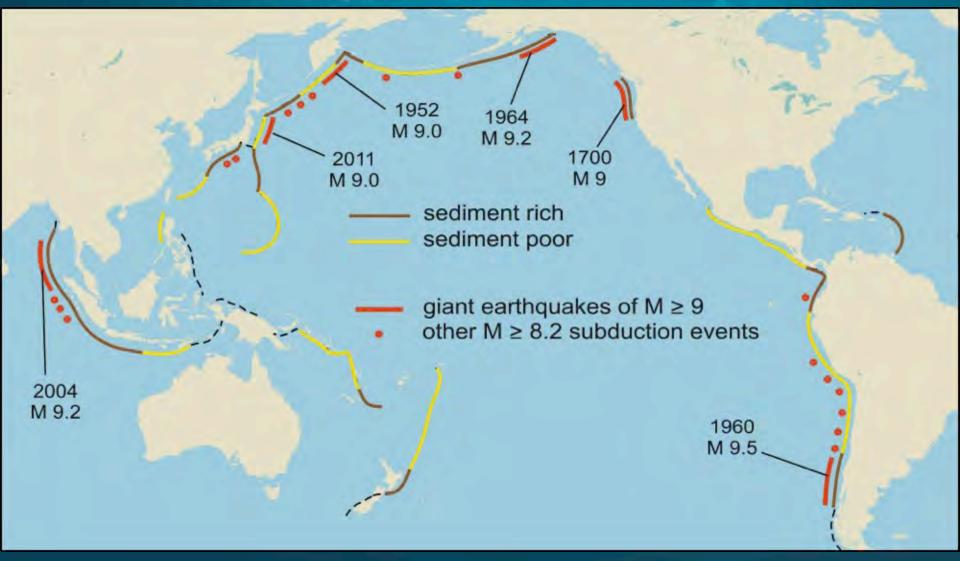
## GeoPRISMS New Zealand Primary Site – Canadian Perspective

Kelin Wang Geological Survey of Canada

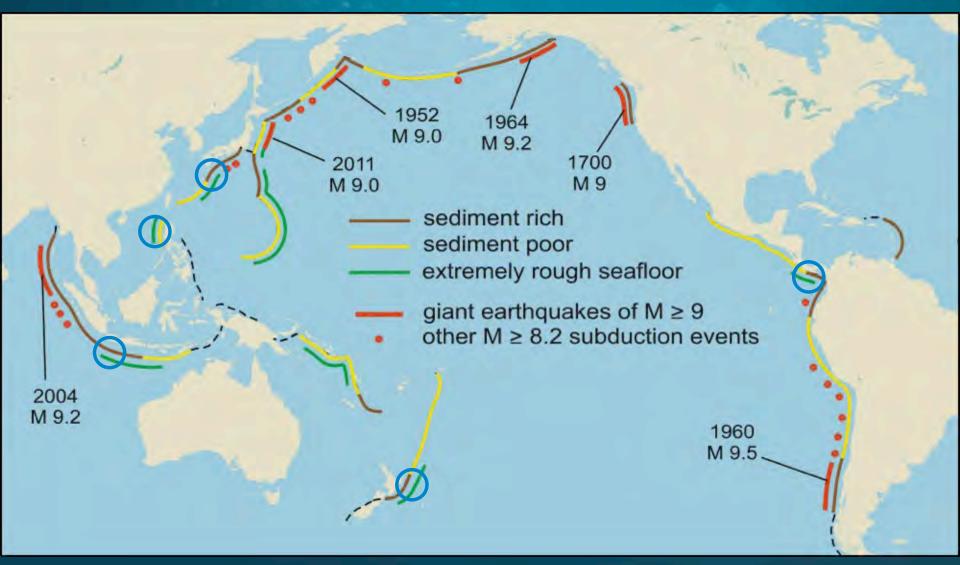
Slow slip events (and tremor)

- Megathrust coupling and great earthquakes
- Cabled seafloor observatories

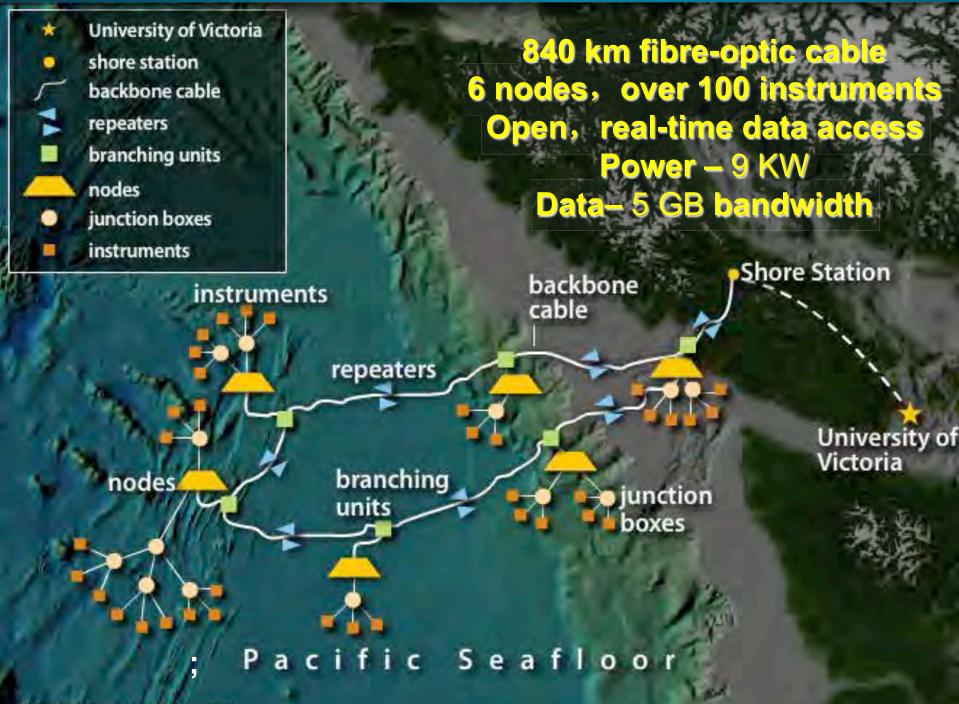




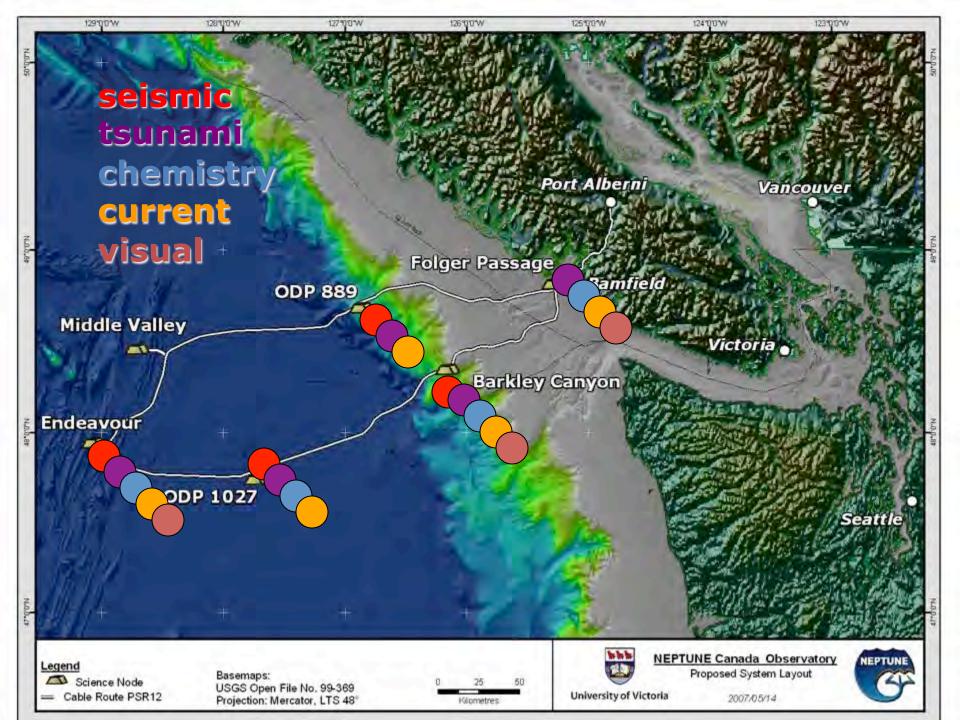
Correlation of giant earthquakes with smooth incoming seafloor



GPS evidence for relation grist benchion faults ("piagis battern")

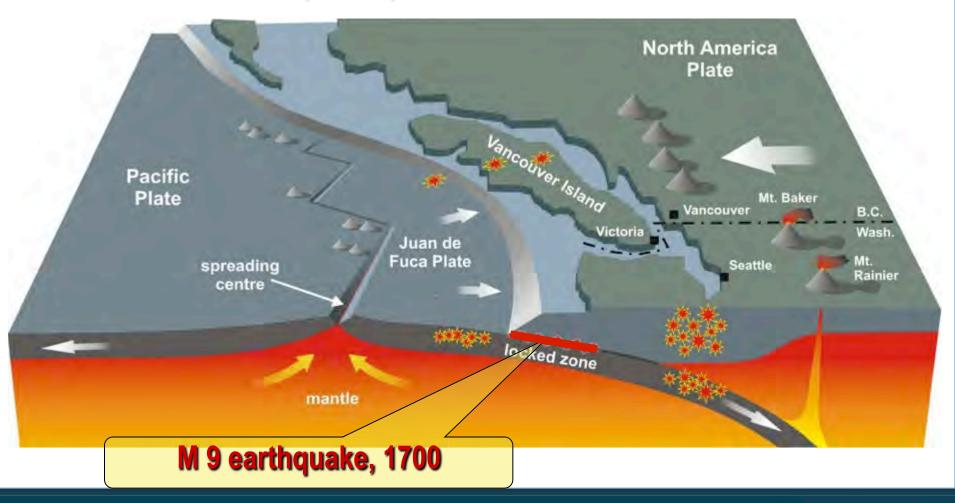


NEPTUNE Canada/NASA/USGS



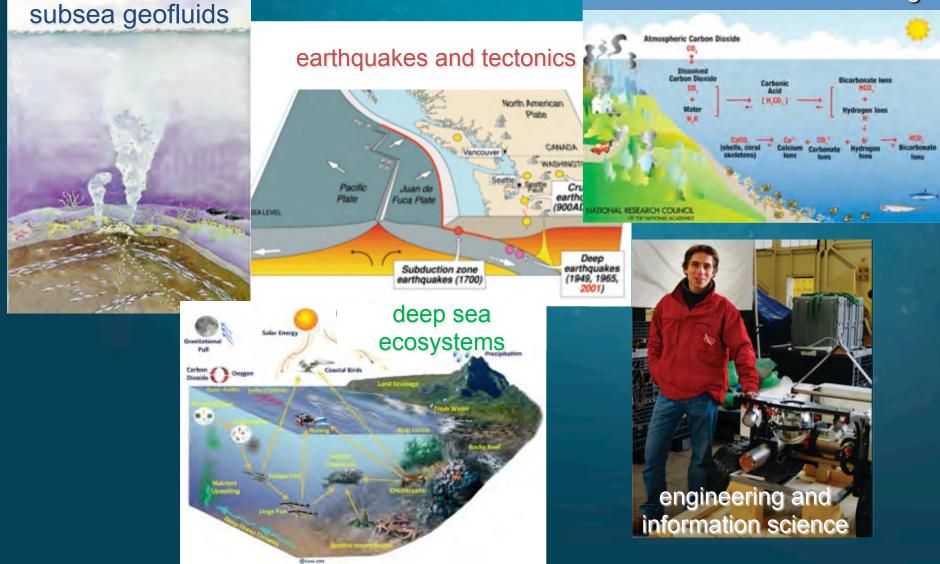
### Scientific themes

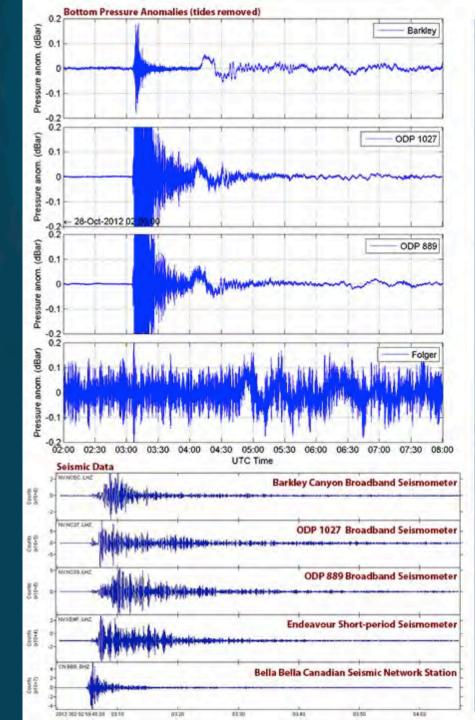
#### Earthquake processes and tectonics



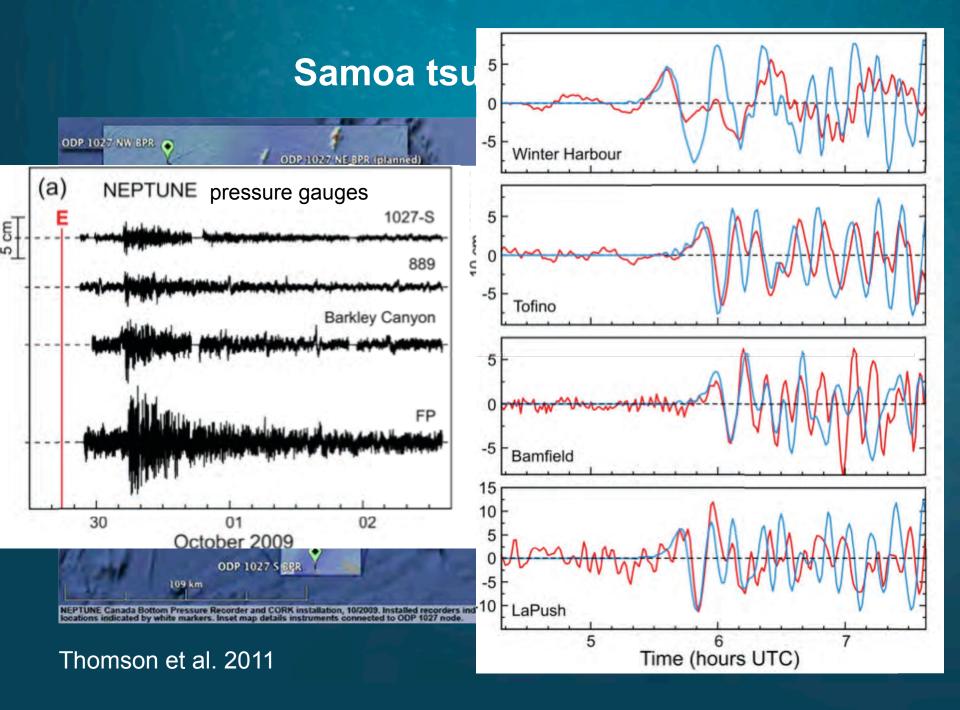
### Scientific themes

#### marine life and climate change

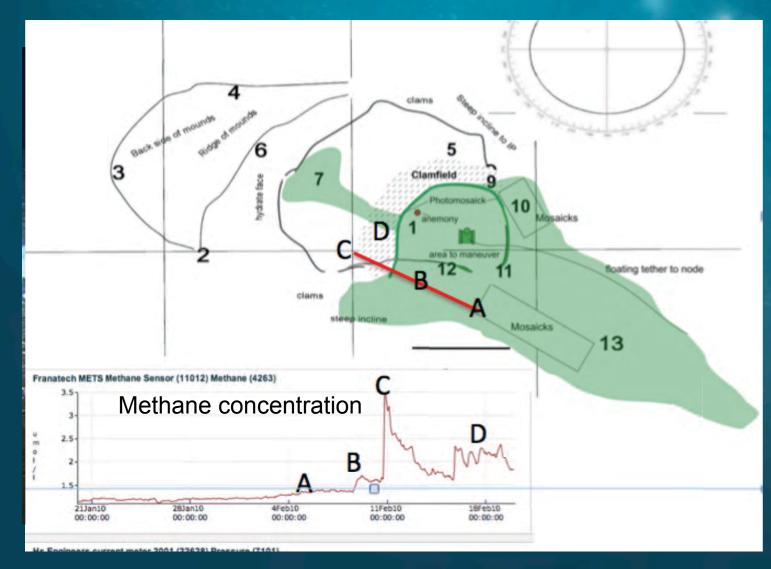




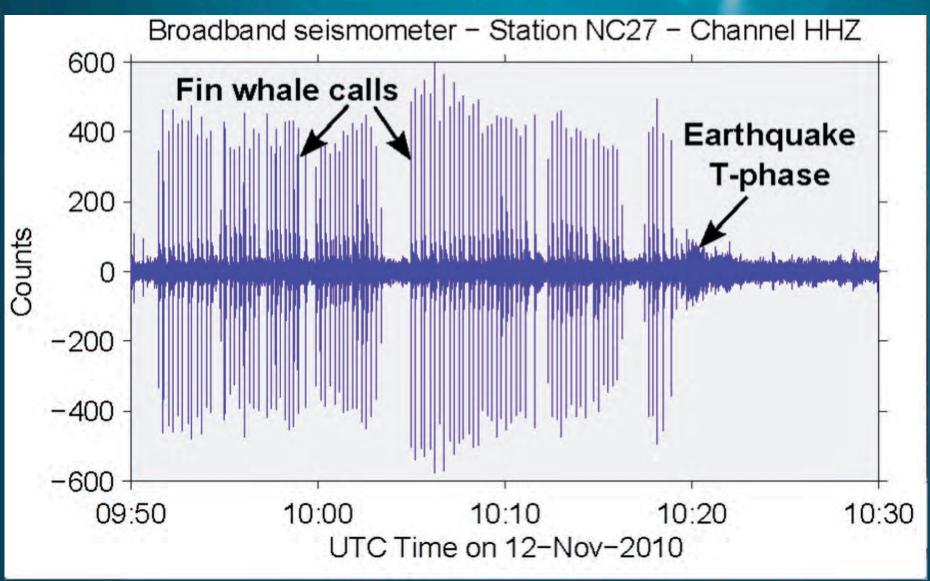
### Haida Gwaii earthquake, Oct., 2012 Epicenter Station Vancouver, BC 007 889 P Folger Passage Barkley Canyor Victoria, BE Endeavour ODP 102 Data SIO, NOAA, U.S. Navy, NGA, GLECO Image 1, 2012 TerraMetrics - 2012 Cress Spot Image Image IBCAO



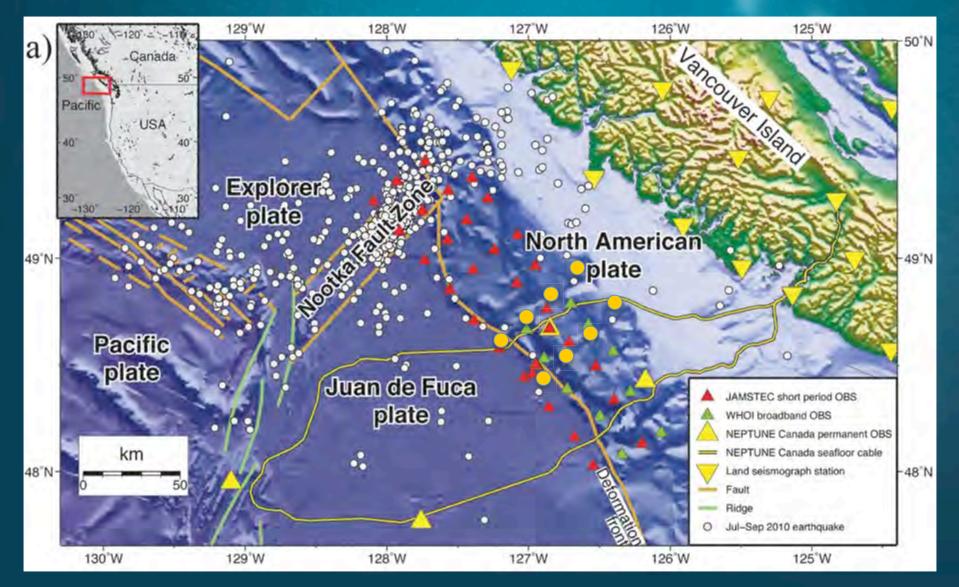
### hydrate, gas

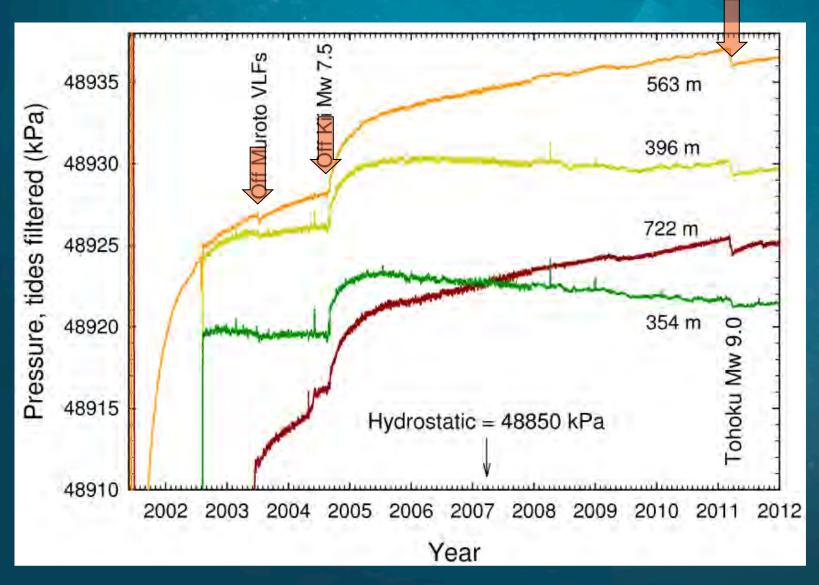


### Marine mammal



#### SeaJade: GSC, JAMSTEC, UVic, WHOI joint projec Deployment 1, 2010; Deployment 2: 2013-2014





ACORK just seaward of Nankai trench (Davis et al., 2013)

