A Canadian Perspective

1. Under current funding system, LITHOPROBE type large projects unlikely.
2. GSC ongoing work in Yukon and Northern British Columbia helps constrain large-scale tectonic framework.
3. Research on Cascadia relevant to Alaska.
4. Direct participation in Alaska research by Canadian universities (e.g. Nedimovic, Dalhousie Univ; e.g. Calvert, Simon Fraser Univ).
5. Willingness to collaborate/coordinate with U.S. projects (Eaton, Calgary Univ; Audet, Ottawa Univ)
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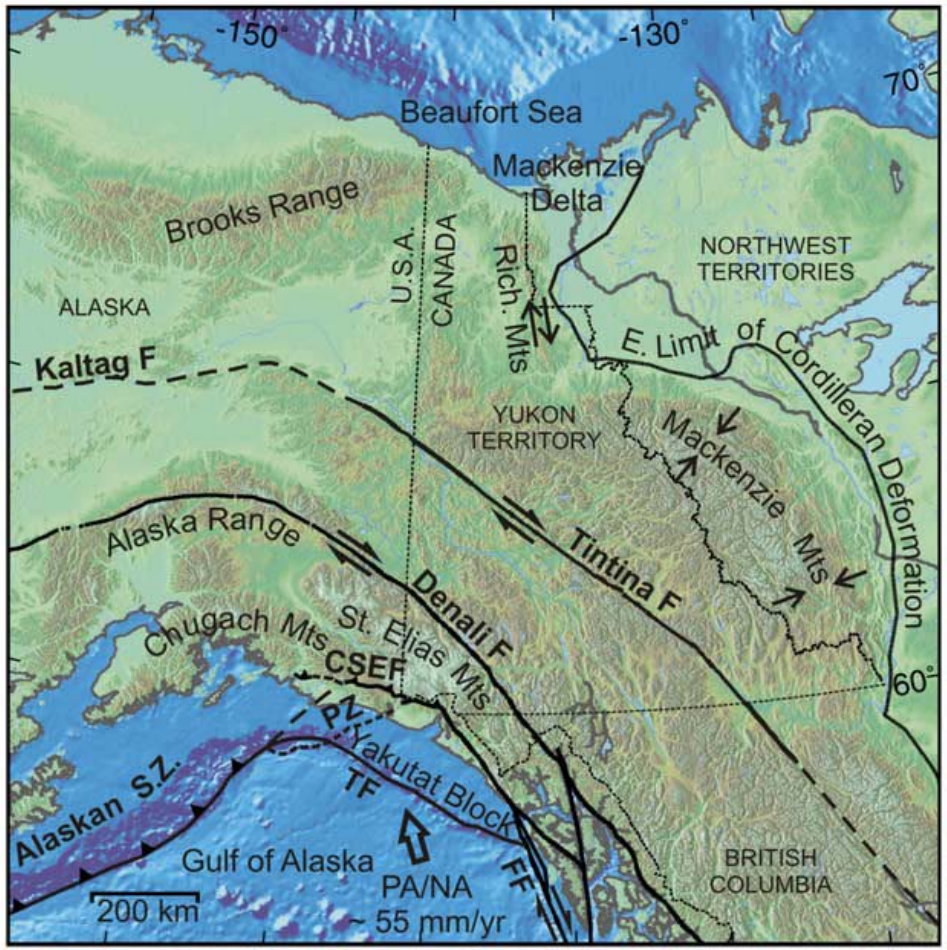
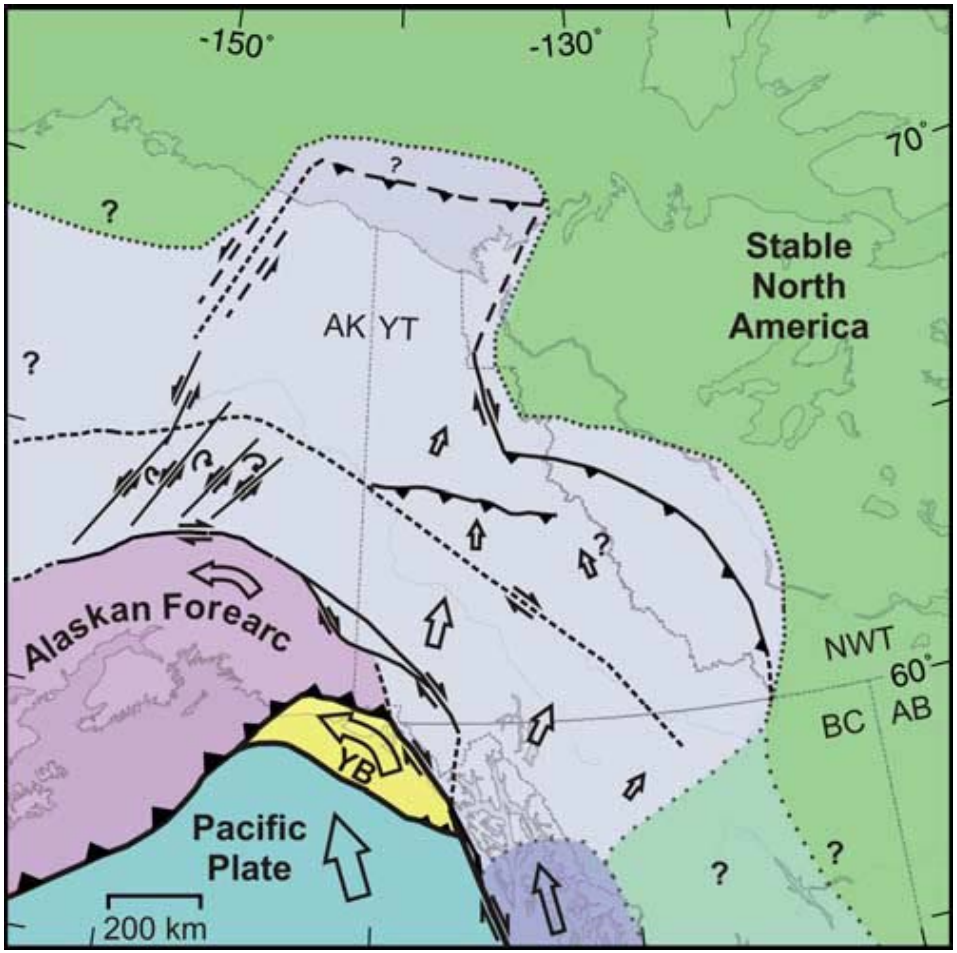
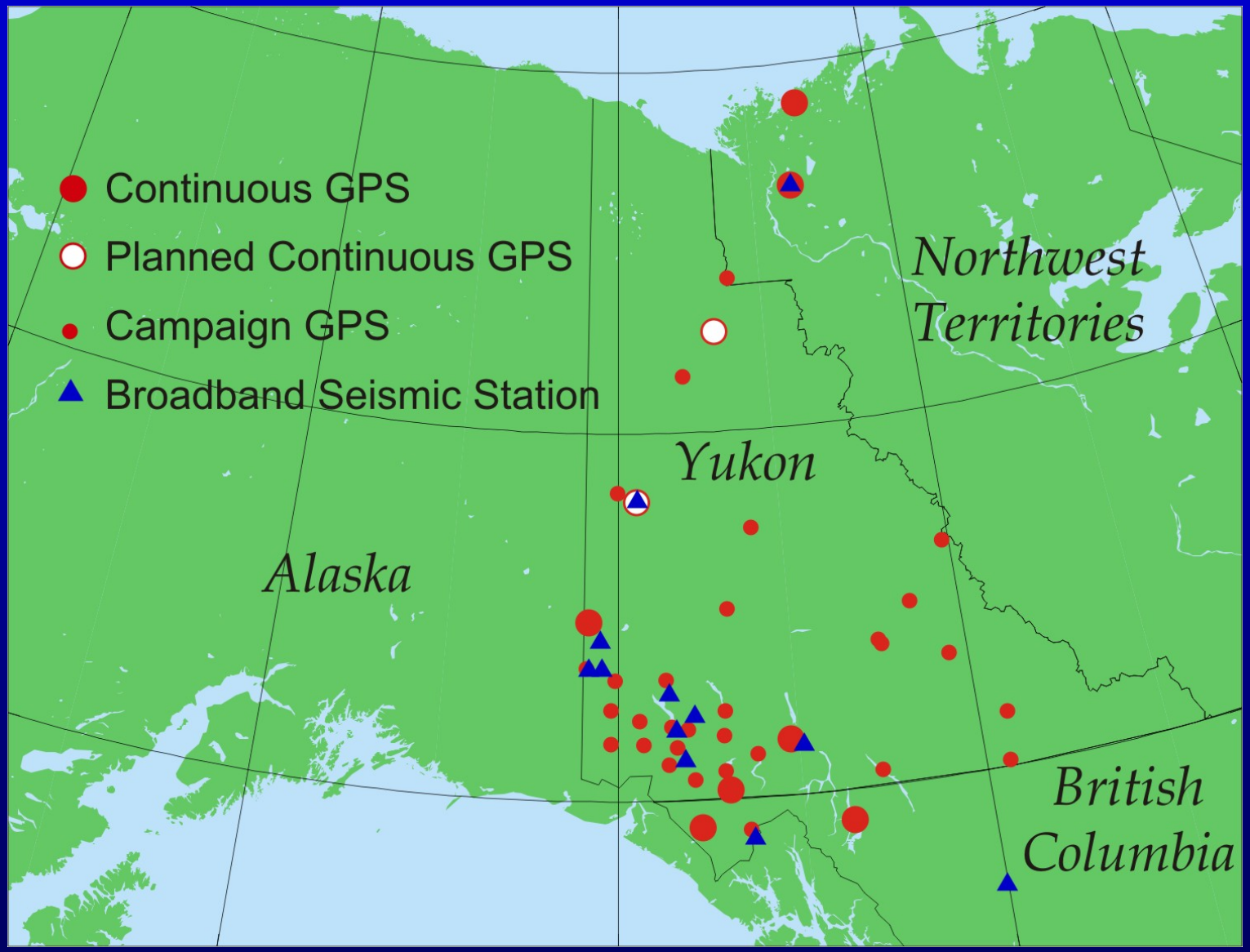
Current Deformation in the Northern Canadian Cordillera

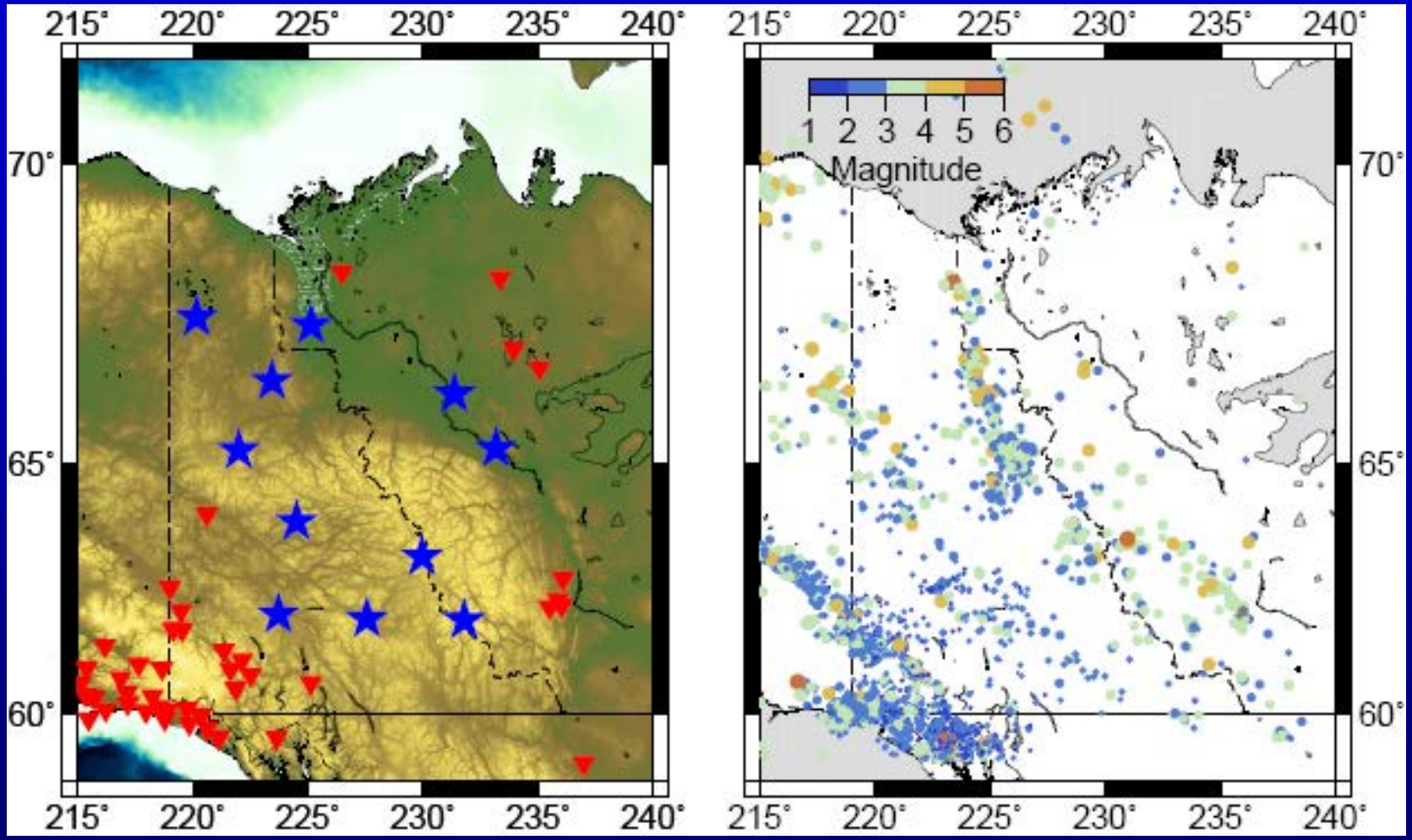




Leonard et al., 2007, JGR

GPS and Seismic Sites in Yukon





Pascal Audet's proposed station distribution

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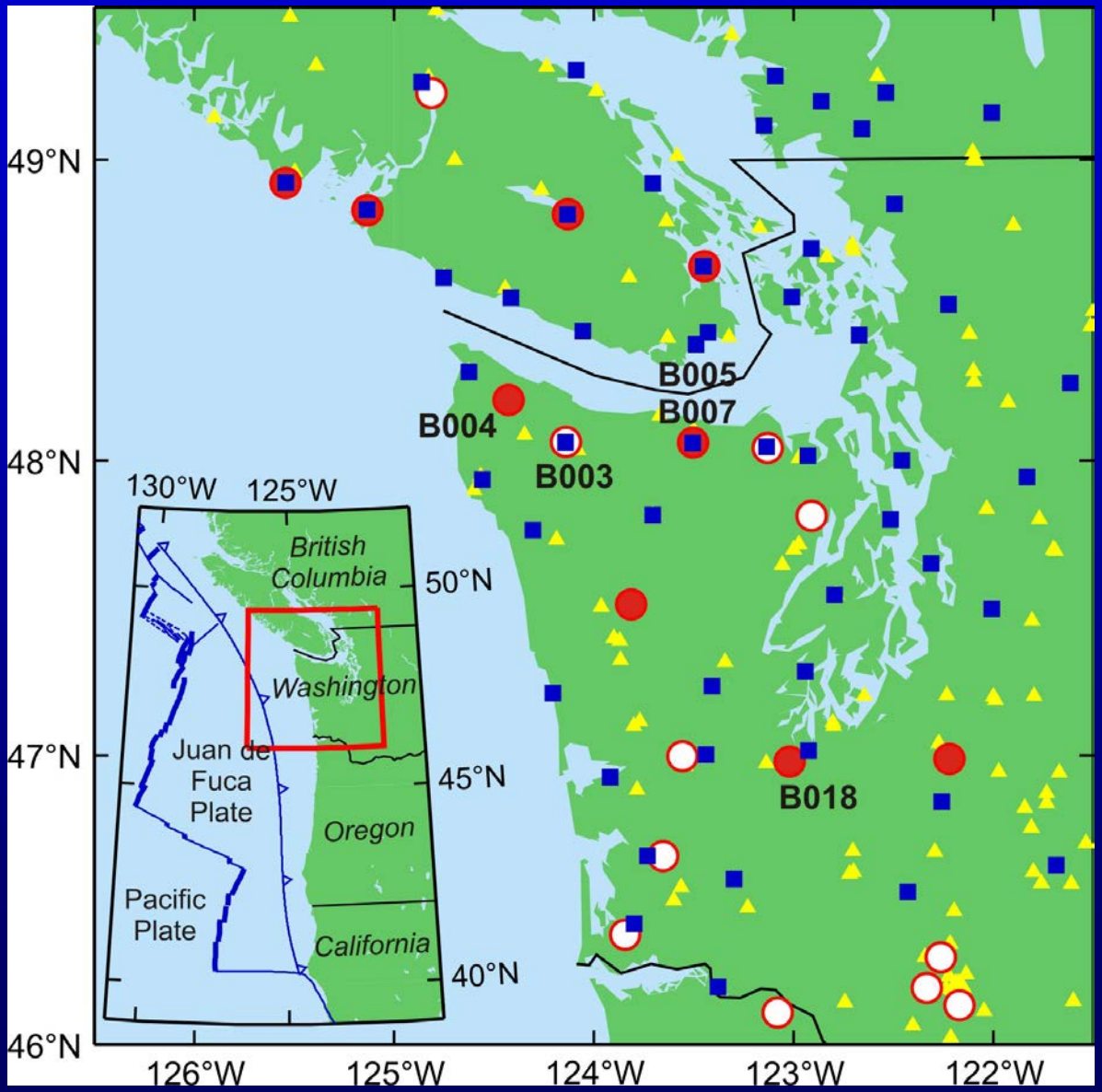
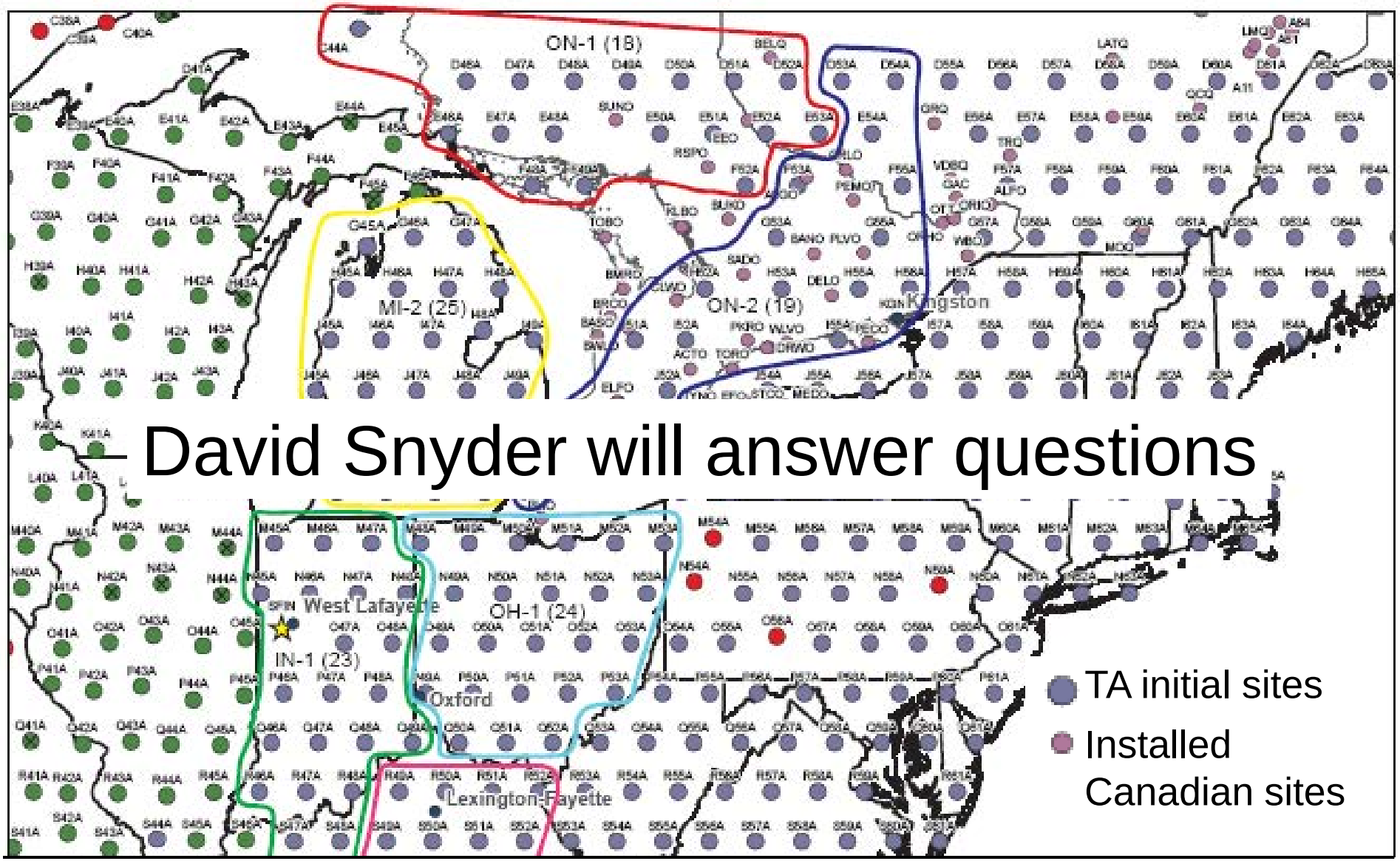
PBO Borehole Strainmeters in BC and Pacific Northwest



Transportable Array Initial Sites located in Ontario and Eastern States



David Snyder will answer questions

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Research on Cascadia relevant to Alaska

1. Cascadia represents Alaska's past.
    - Cascadia is end-member young-slab subduction zone
    - Very young plate and ridge subduction in Tertiary Alaska

2. Cascadia represents Alaska's future.
    - Cascadia is at a late stage of earthquake cycle (since 1700)
    - Alaska is at a relatively early state (since 1964)

3. Cascadia reflects Alaska's present.
    - Episodic tremor and slip
    - Accretionary prism processes
    - Arc volcanism and related geochemistry
    - Forearc deformation
    - … …