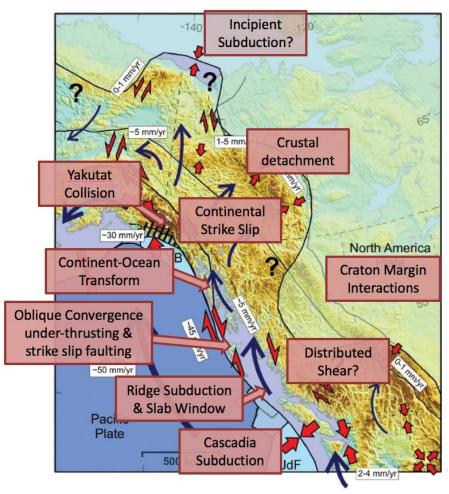


CCArray Outlook

- Bridge the plate-boundary gap in the Yukon and British Columbia
- Complete synoptic investigation of the North American plate margin north of Mexico



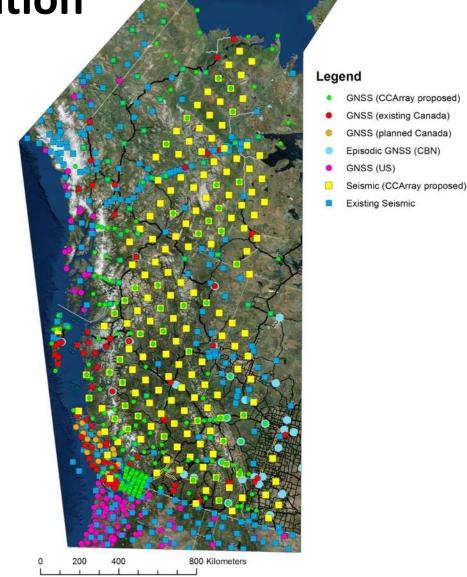
(After Mazzotti et al., 2008)





Proposed Instrumentation

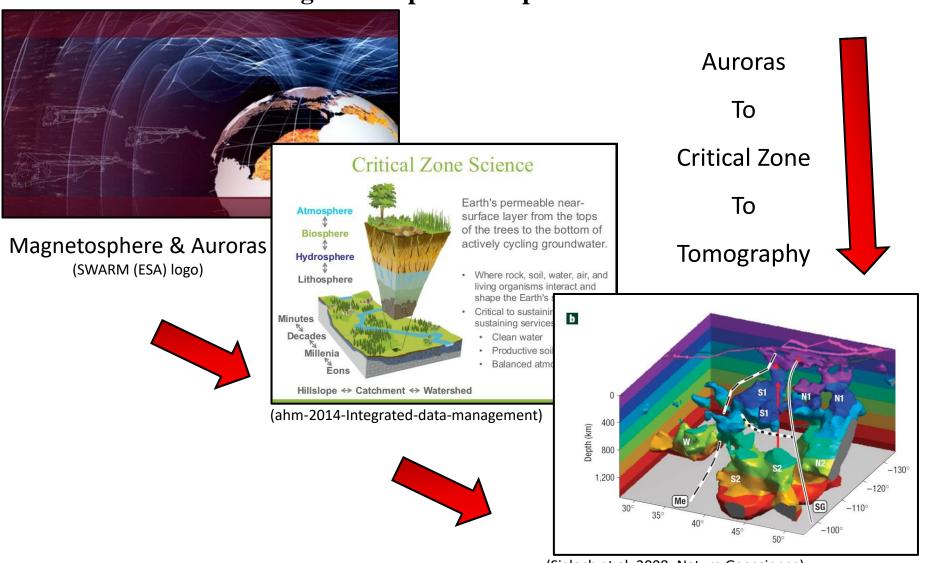
- Broadband seismometers
- GNSS
- Meteorology
- Still and video cameras
- Magnetotelluric
- Riometers
- Atmosphere, permafrost and groundwater monitoring
- Absolute, relative and superconducting gravimetry
- Supplement with remote sensing (InSAR, LIDAR, satellite gravity, etc.)





CCArray – Goal:

New Research Network – Entire Earth Systems from Magnetosphere through Lithosphere Deep into Mantle



(Sigloch et al, 2008; Nature Geoscience)

Critical Zone Observatory Plan for CCArray

"Legacy Stations"



T – Tuktoyaktuk

Kl - Kluane*

C - Calvert Island*

Q – Quesnel River

Ka – Kananaskis

A – ASCCA

Proposed new CZO

Inuvik

NW - Norman Wells

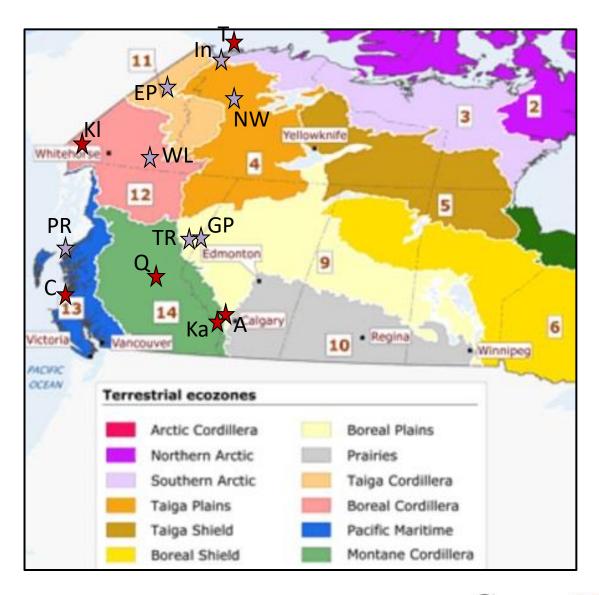
EP — Eagle Plains

WL - Watson Lake

PR – Prince Rupert

GP - Grand Prairie (or)

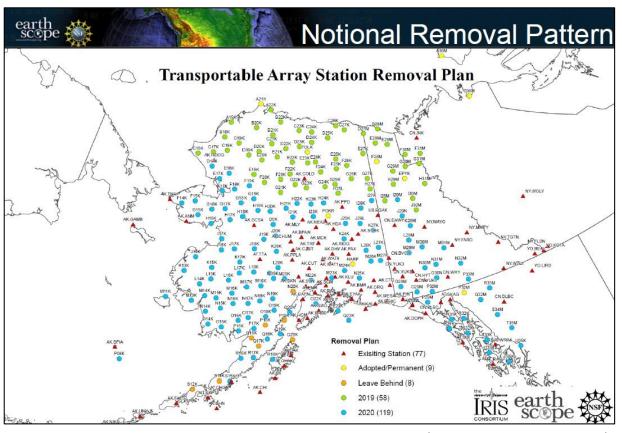
TR – Tumbler Ridge





^{*} sensor installation summer 2018

Collaboration Opportunities



CCArray is exploring avenues for retention of some TA sites in Canada

~13 - 2019

 $^{21} - 2020$

(From Busby, AGU 2017)



