

# Geophysical Geodesy

Thursday October 13, 2011

- Questions, reading, etc.
- New Reading:  
Chapter 6. Segall, Earthquake and Volcano Deformation
- Next Time: Viscoelasticity and Postseismic Deformation
- Projects:  
Problem Set #5: due... Tuesday, Oct 18
- EarthScope  
Purpose  
Components and Facilities >> Data  
Progress (TA, Alaska)



# Project Outlines:

- Title
- One sentence summary that states science question to be answered.
- 5 sentence description that includes:
  - Data to be used (type and source)
  - Parameters to be estimated
  - Analysis/Methods to be used
  - Expected results
  - Why these are important (e.g. Broader Impacts)



# EarthScope: What is it?

EarthScope is an ambitious, **multifaceted** program to investigate the structure, dynamics, and history of the North American continent.

EarthScope's vision is to use **North America** as a natural laboratory to gain fundamental insight into how Earth operates.

EarthScope provides researchers with rich **data sets** to image, sample, and monitor the continent and underlying mantle at a resolution never before attempted.



# EarthScope: What is it?

EarthScope Program is

1) a facility

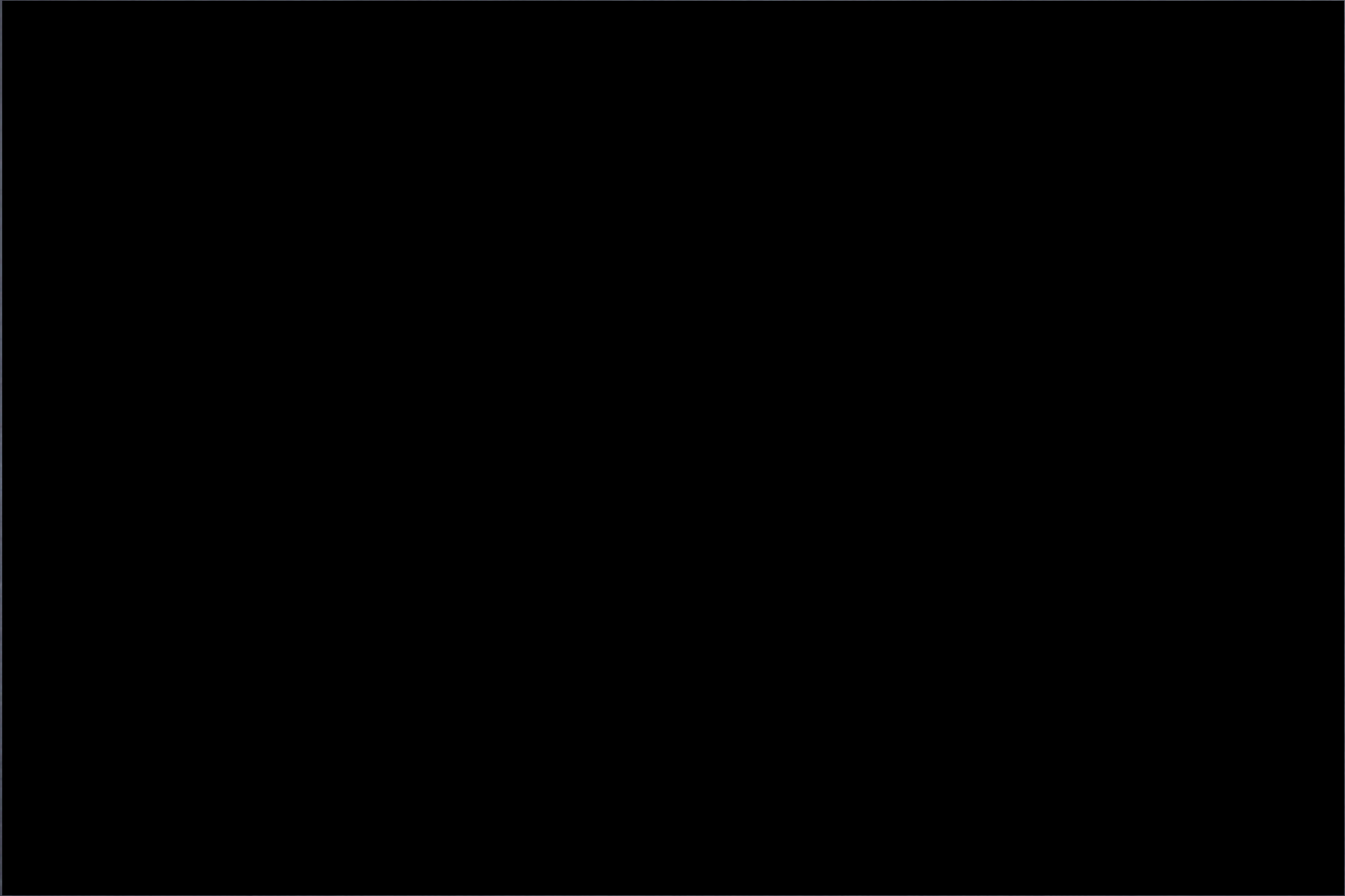
2) a NSF research program with funding for PIs







Go to Shedlock's .pdf

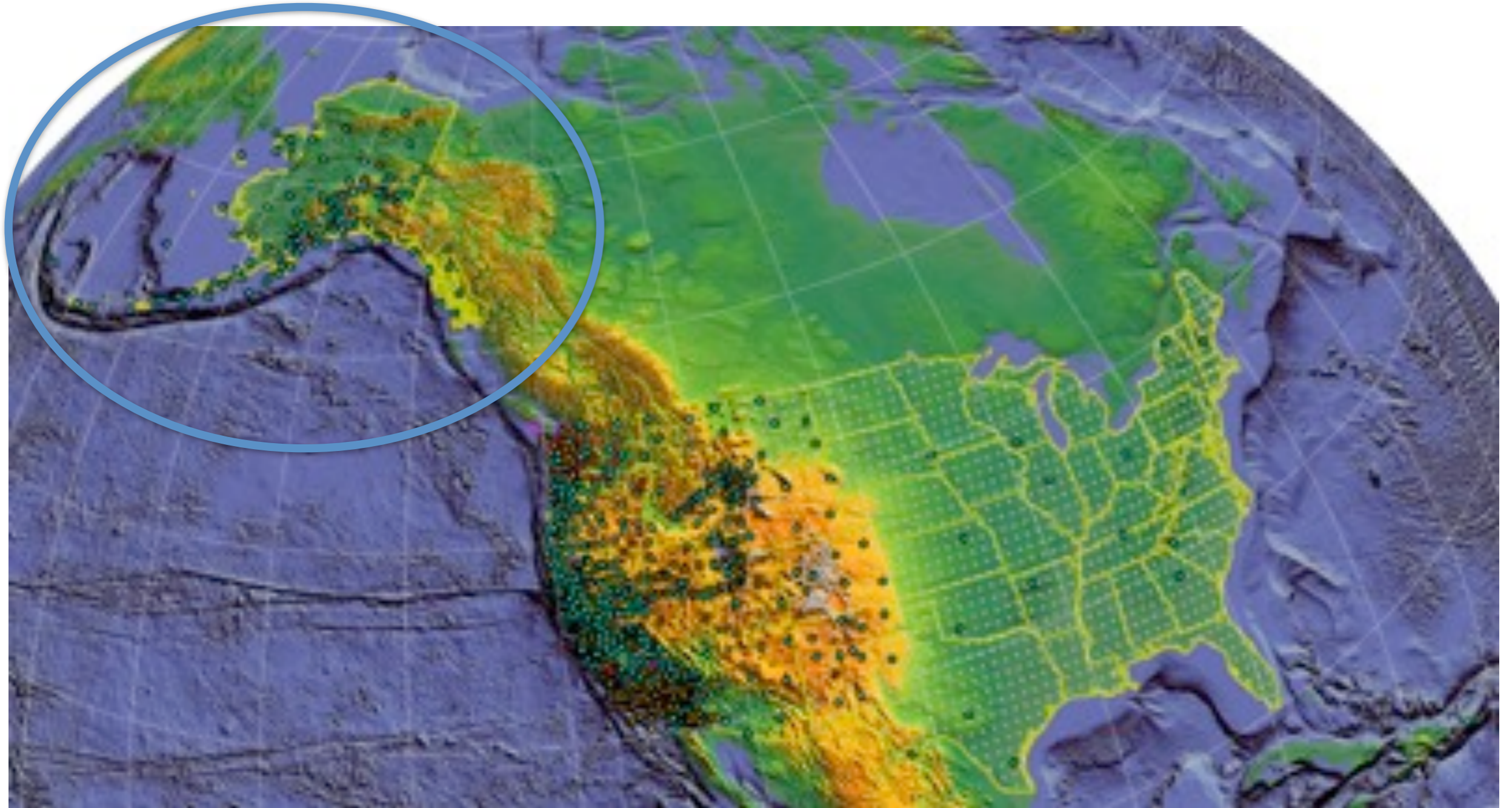




Go to EarthScope Website

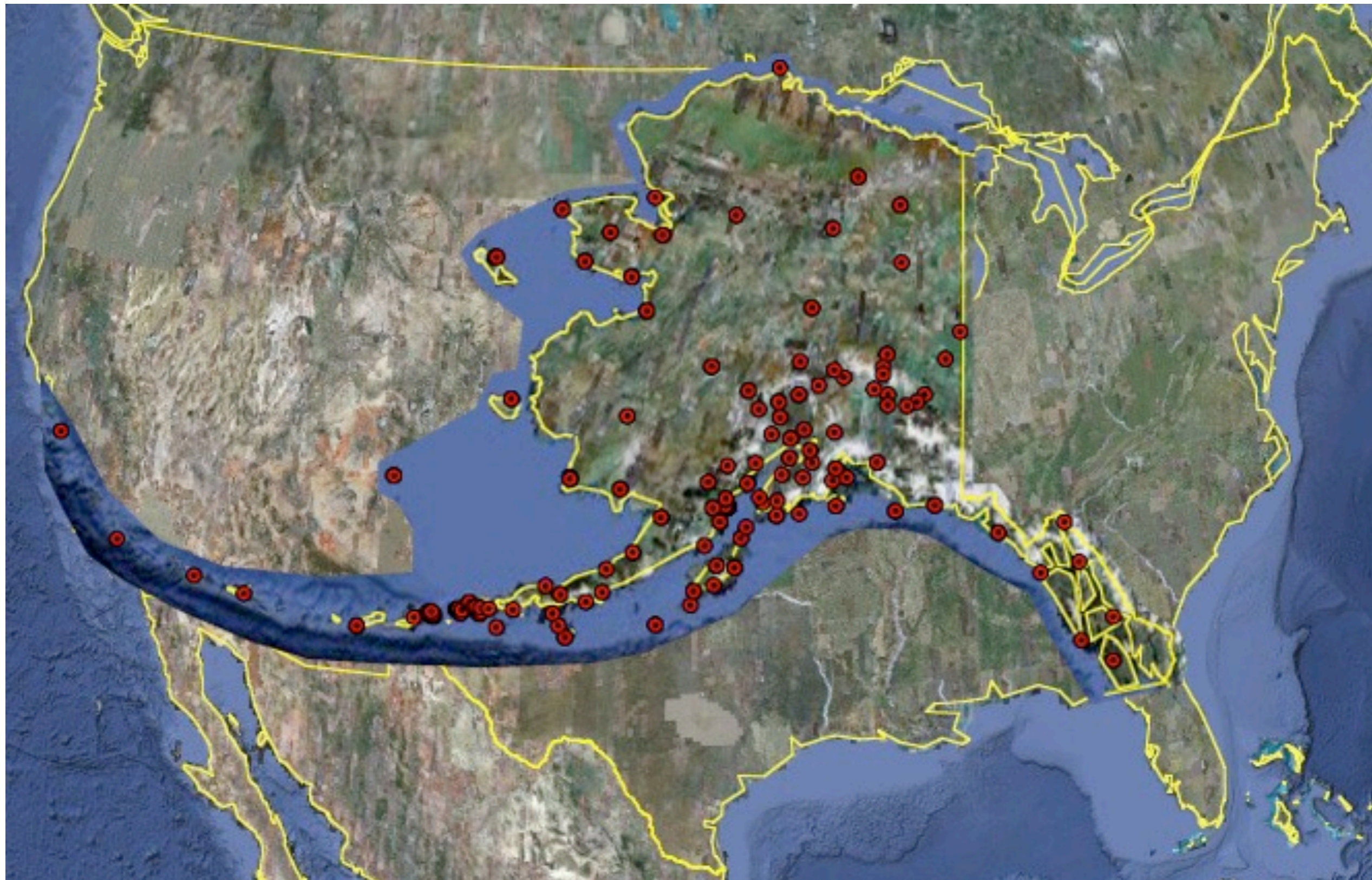


# Next for EarthScope: Alaska



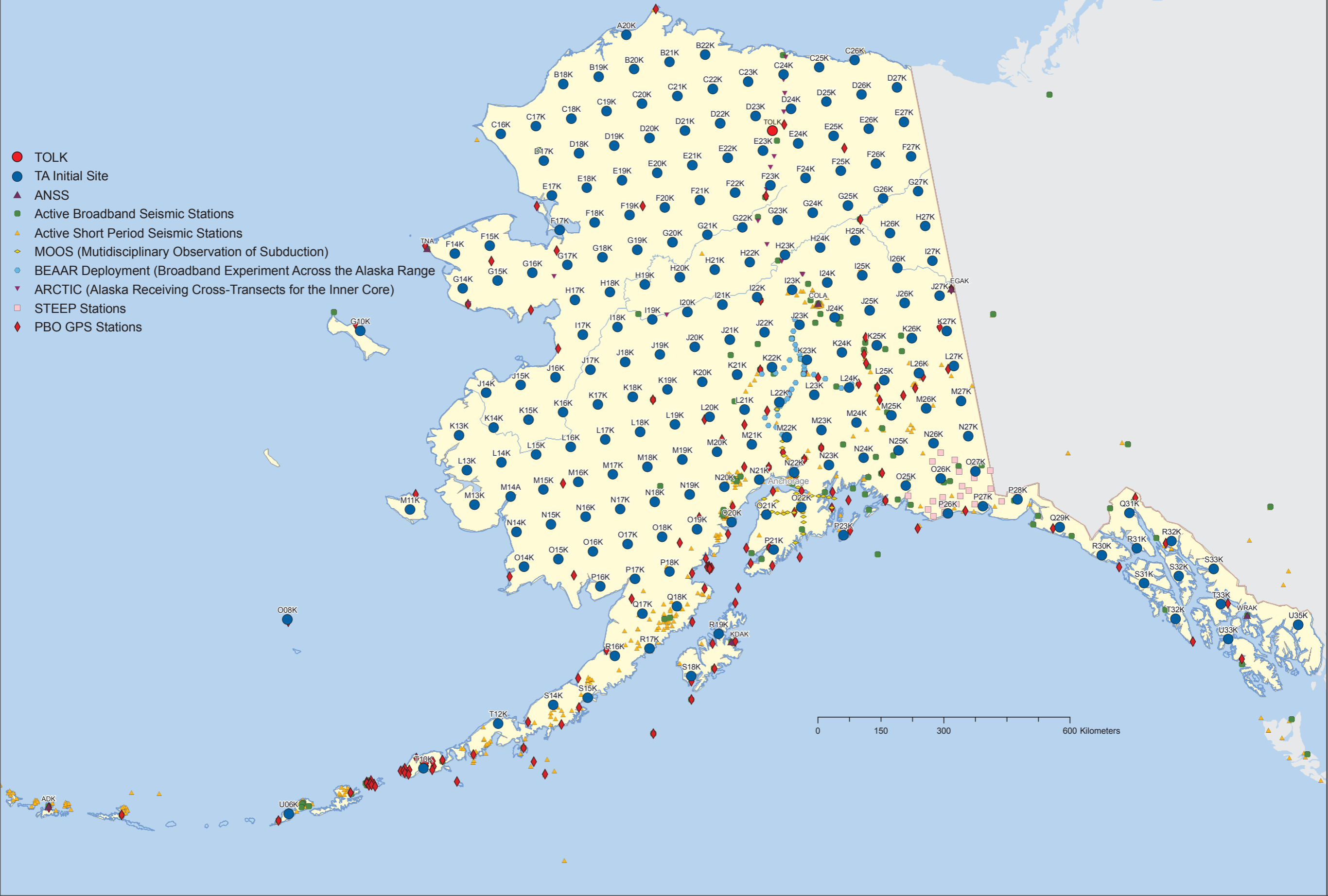


# PBO is Already There





# Potential TA Sites in Alaska



- TOLK
- TA Initial Site
- ANSS
- Active Broadband Seismic Stations
- Active Short Period Seismic Stations
- MOOS (Mutidisciplinary Observation of Subduction)
- BEAAR Deployment (Broadband Experiment Across the Alaska Range)
- ARCTIC (Alaska Receiving Cross-Transects for the Inner Core)
- STEEL Stations
- PBO GPS Stations

0 150 300 600 Kilometers