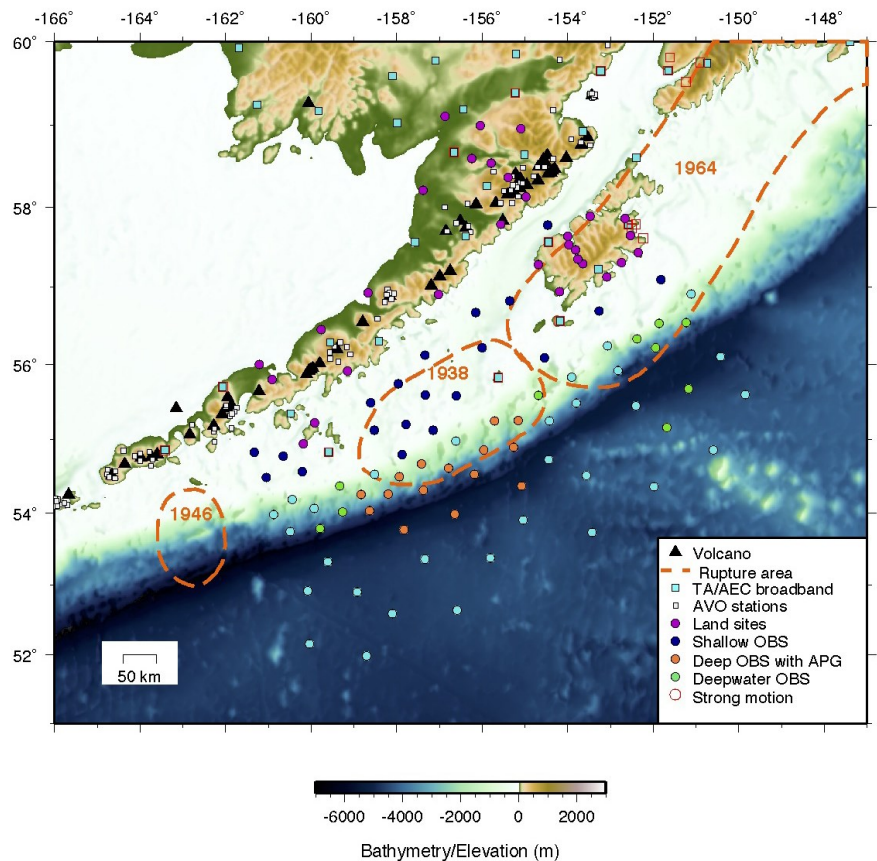


# OBSIP Experiment Archive

<b>Year:</b>	2018
<b>Experiment Name:</b>	Alaska Amphibious Community Seismic Experiment (AACSE) A major shoreline-crossing community seismic experiment will be deployed 2018-2019, focused on the Alaska Peninsula subduction zone.
<b>Principal Investigator(s):</b>	Geoff Abers (Cornell University) Douglas Wiens (Washington University in St Louis) Susan Schwartz (UC Santa Cruz) Emily C. Roland (University of Washington) Anne Sheehan (University of Colorado Boulder) Aubrey Adams (Colgate University) Donna Shillington (LDEO) Spahr Webb (LDEO) Peter Haeussler (USGS) Lindsay Worthington (University of New Mexico)

**Experiment Summary:** (Taken from the [AACSE GeoPRISMS website](#)): North America's largest recorded earthquakes and largest documented volcanic eruptions both take place in southwest Alaska. A major shoreline-crossing community seismic experiment will commence in 2018, focused on the Alaska Peninsula subduction zone. Alaska is a GeoPRISMS primary site and current EarthScope target. The deployment is augmented by deployment of EarthScope Transportable Array (TA) seismic stations, earthquake and volcanic monitoring networks, and the recent development of a large pool of ocean bottom seismographs (OBSs).



*Continued Next Page*

*Proposed instrument deployment plan and existing seismic stations*

Ocean Bottom Seismic Instrument Center • <https://OBSIC.WHOI.EDU> • [obsic@whoi.edu](mailto:obsic@whoi.edu)

# OBSIP Experiment Archive

...Continued

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**Experiment Summary:** ...Together, these resource provide a unique opportunity to advance understanding of Alaska and subduction processes generally.

## Cruises:

5/9/2018 - 5/29/2018:

25 LDEO broadband OBS and 20 LDEO trawl-resistant mount OBS were deployed on board the R/V Sikuliaq.

7/11/2018 - 7/25/2018:

30 WHOI broadband OBS were deployed on board the R/V Sikuliaq.

2019:

Recovery will occur in 2019.

## Data:

Data from all OBS instruments deployed will be archived under temporary network code [XD](#). Recovery will occur in 2019.

## Downloads/Links:

[GeoPRISMS Website](#)  
[AACSE Cruise Blog](#)

AACSE collects seismic data remotely onshore and offshore, all of which will be freely released to the community as rapidly as possible. The array includes 75 broadband OBSs and 30 land broadband sensors, recording for 15 months beginning May-June 2018. The array covers a broad area that spans the incoming plate, the megathrust and volcanic arc to the distal backarc, and includes a dense transect in the Kodiak/Katmai region. When integrated with the TA, the array extends 1500 km from incoming plate to the Arctic coast and spans 700 km along strike. The OBSs include 20 shielded sensors for deployment in shallow water. Many OBSs include absolute pressure gauges to capture possible slow slip events, while five OBSs and six land sites will include accelerometers to record large local earthquakes without clipping.