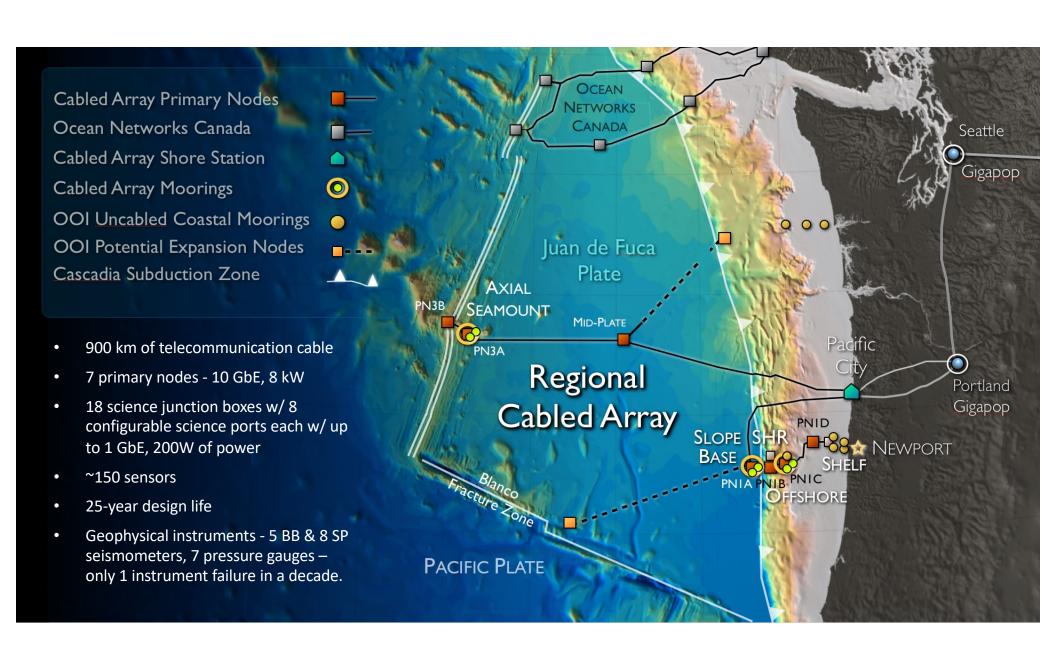
The Cascadia Offshore Subduction Zone Observatory (COSZO)

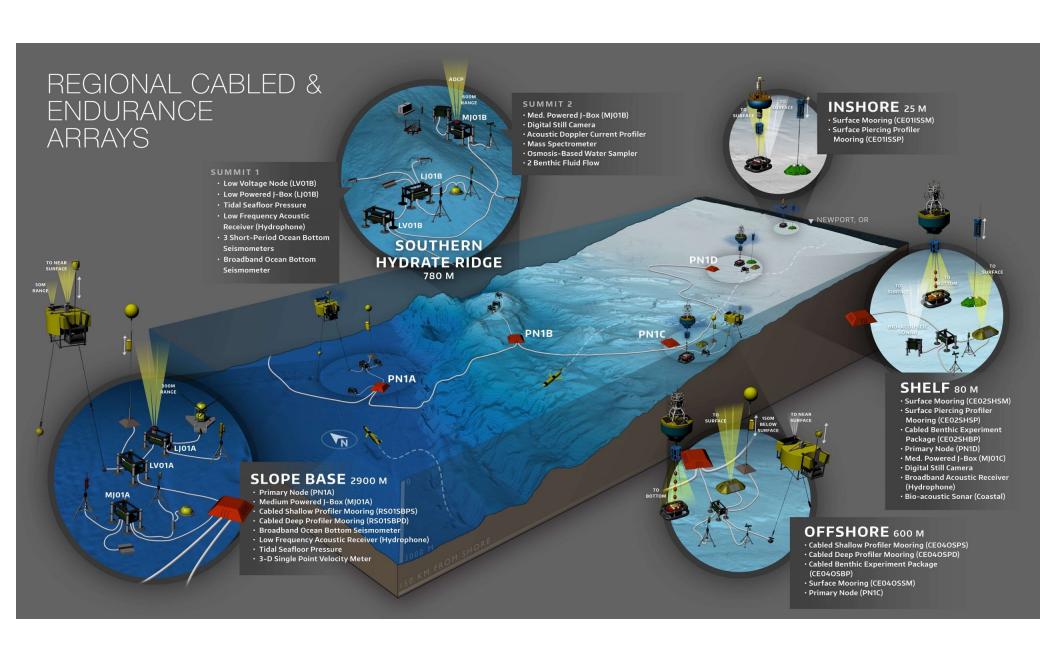
An NSF Mid-Scale Infrastructure 1 Project

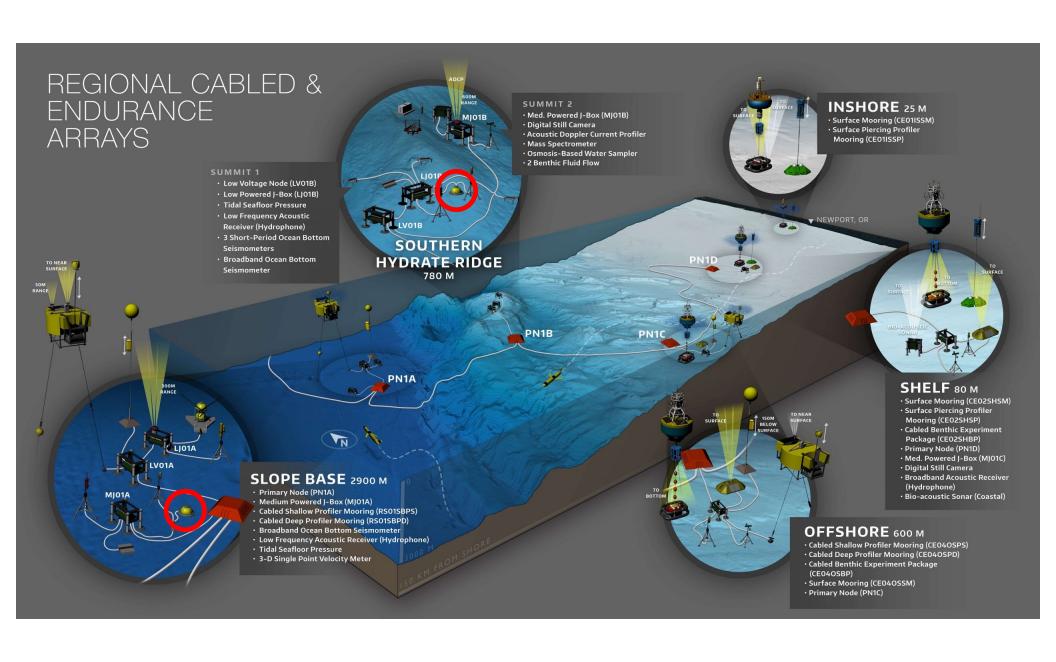
William Wilcock University of Washington

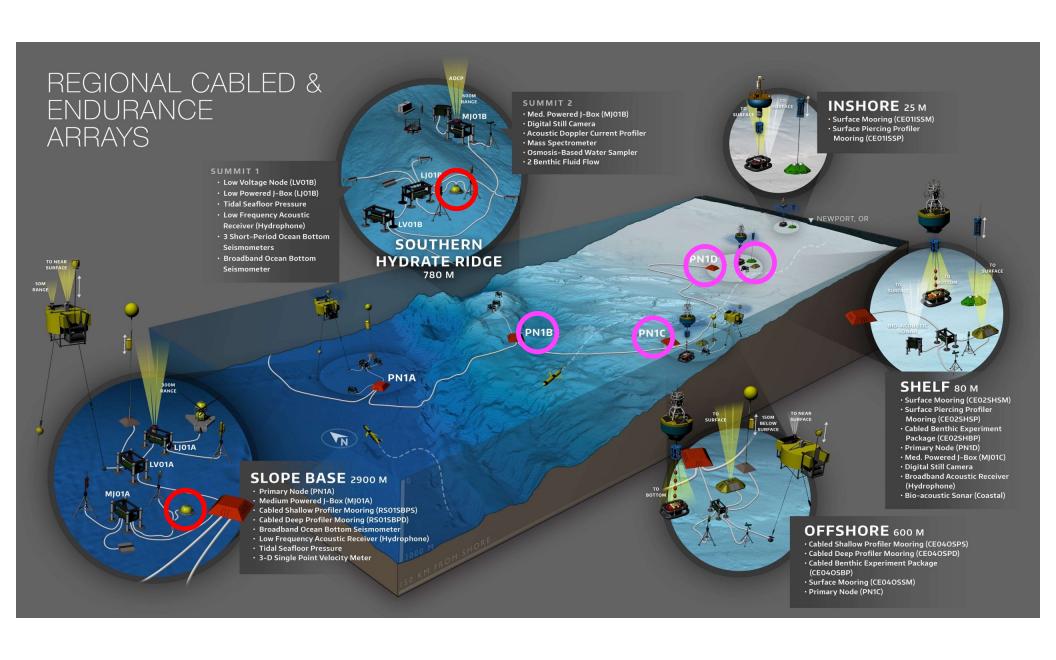
UW Team: William Wilcock, Mike Harrington, David Schmidt, Deborah Kelley, Harold Tobin, Marine Denolle, Mika Thompson, Dana Manalang, Geoff Cram, Chuck McGuire, James Tilley, Chris Murray, Amanda Labrado, Matthew Khoo, Yoichiro Dobashi, Keith Blood, Grant Dunn, Ken Feldman, Steve Geffner, Hunter Hadaway, Larry Nielson, Kellen Rosburg, Austin Smith, Kira Smith, Shawn Thomas, Joel White, Matt Duke, Trina Litchendorf SIO Team: Mark Zumberge, Glenn Sasagawa, Matthew Cook

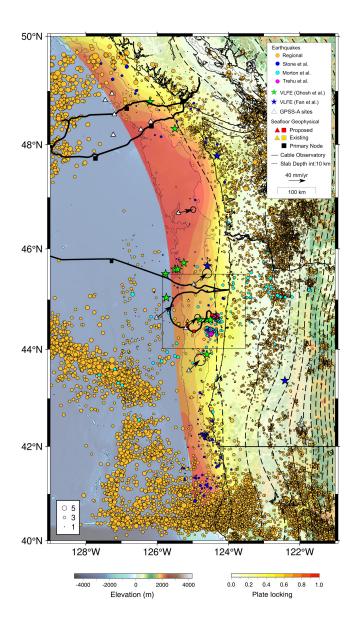
Offshore Observations | CRESCENT Topical Workshop
October 27, 2025

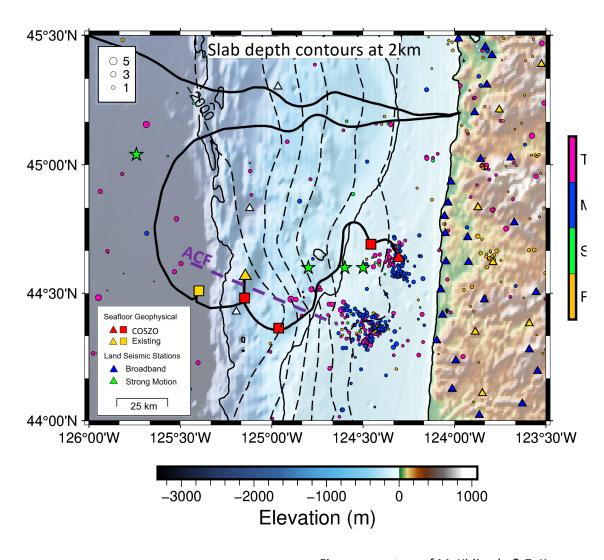








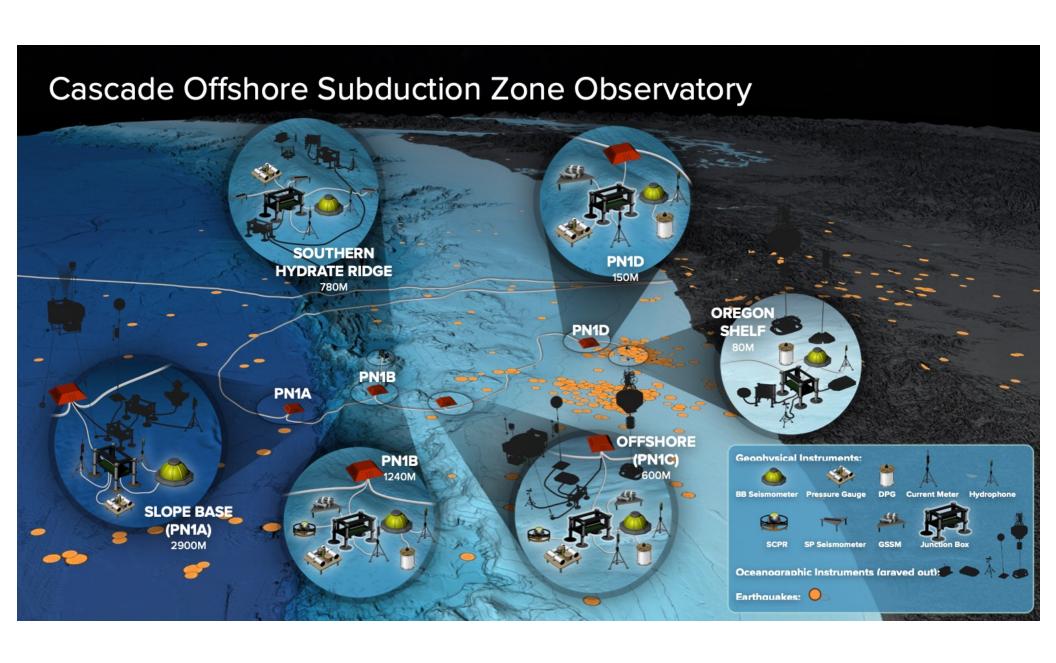




Figures courtesy of M. Kidiwela & Z. Krauss

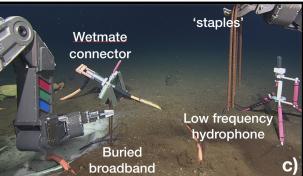
COSZO Science Questions

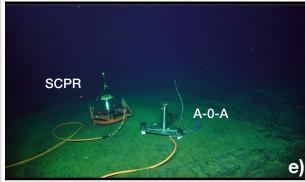
- 1. How does the locking of the Cascadia megathrust transition between the deformation front and the coastline off central Oregon?
- 2. Is there transient slip behavior slow slip, tremor, and/or very low frequency earthquakes offshore spanning the locked zone and its downdip transition? If so, might this be used to track the redistribution of stress on the megathrust, and possibly provide insight into precursory fault behavior?
- 3. How are the clusters of shallow earthquakes offshore linked to the megathrust?
- 4. What is the baseline deformation rate and fault slip behavior of the accretionary prism? This baseline information is critical for properly interpreting future transient deformation as precursory phenomena.



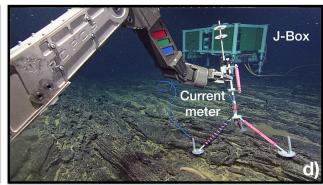


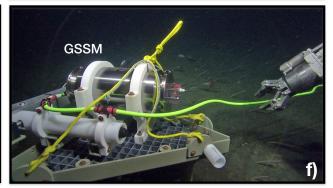








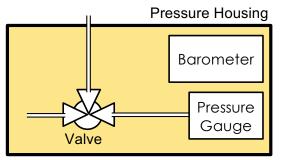


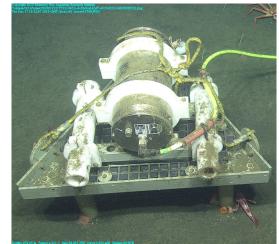


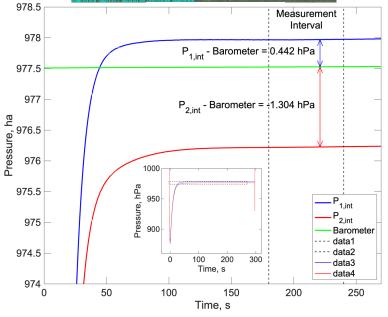
Removing Drift from Pressure Gauges for Geodesy

UW Geodetic and Seismic Sensor Module (GSSM) : A-0-A









SIO Cabled Self Calibrating Pressure Recorder (CSCPR)

