

CIET Year 1: Deployment Legs 2 & 3

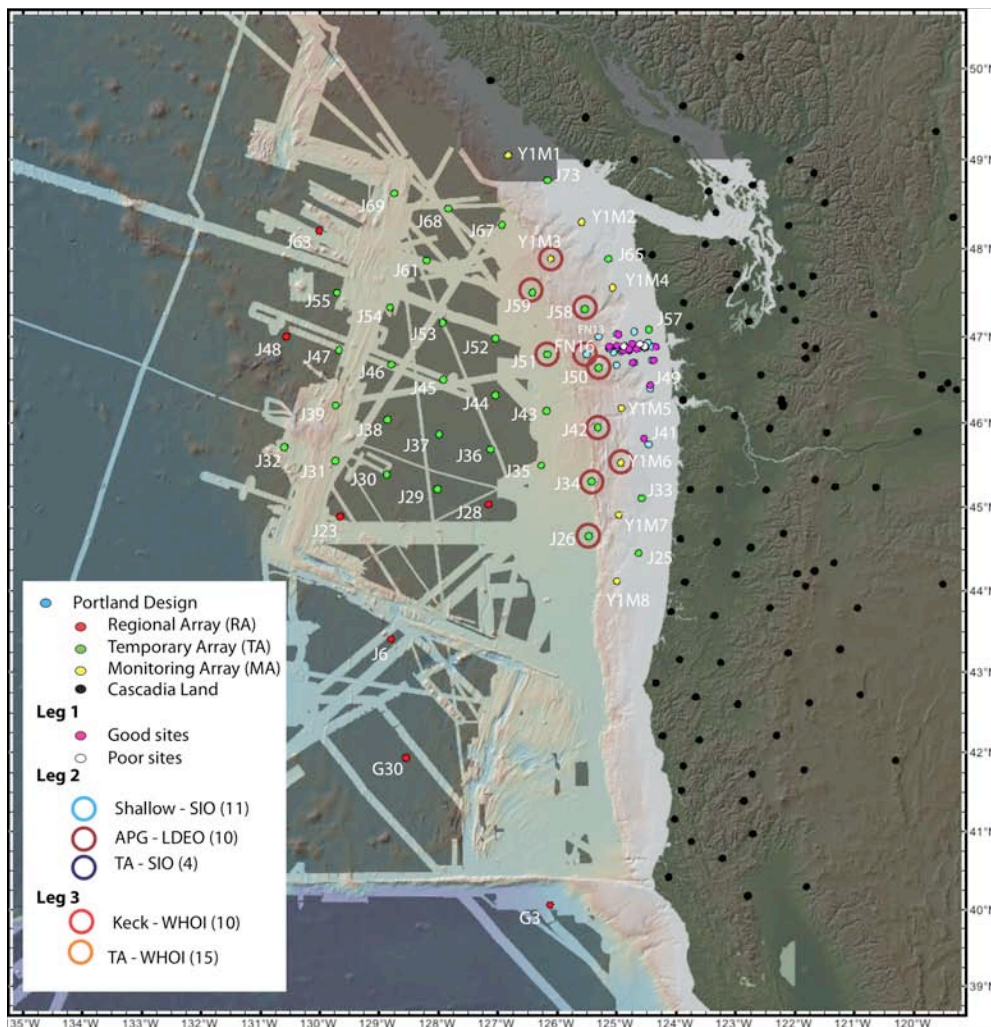
Goals:

- Deploy the remaining shallow water instruments (SIO)
- Prioritize APG and Keck instrument placement
- Intermix SIO and WHOI instruments spatially in the remainder of the array

Absolute pressure gauge (APG) deployments

The science goal with the APGs (chocolate circles) is to record vertical deformation. Deploy at 8 remaining margin sites (>1 km depth): J26, J34, Y1M6, J42, J50, FN16, J58, and Y1M3. One APG will be at J51 to extend the lines of APG-trawl resistant mounts (TRMs) in the Focused Array North site (brown box labeled FN) further offshore. A last APG will be close to the margin at J59. The 10 APGs will be deployed during the first part of Leg 2 (Leg 2-1).

An alternative is to deploy one APG at Co-Axial, J39, and one near Middle Valley, J61, this means replacing APGs at J26, J51 and/or J59 with WHOI instruments (oranges). This may be scientifically useful in terms of detecting inflation and diking; however, additional transit time is required.

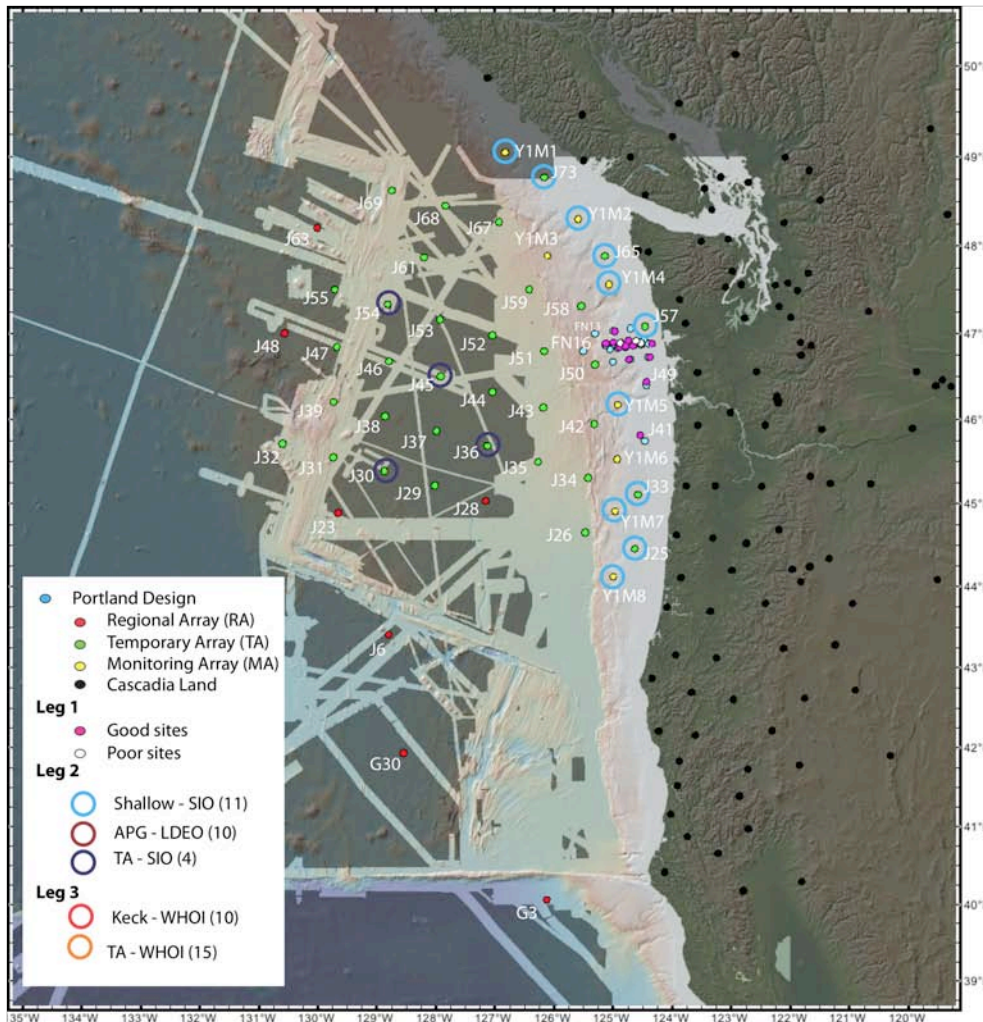


Shallow water instruments:

11 shallow water sites (<1 km) remain located from 44° to 49°N along the margin. SIO Abalones (light blue circles) to be deployed at: J25, J33, J57, J65, J73, Y1M1, Y1M2, Y1M4, Y1M5, Y1M7, Y1M8.

The remaining 4 SIO Abalones will be deployed so that the WHOI stations in the temporary array (small green dots) are separated spatially as much as possible (dark blue circles), while also not adding excessive transit time in their deployment. These are set at: J30, J54, J45 and J36.

All 15 SIO OBSs will be deployed during the second part of Leg 2 (Leg 2-2).



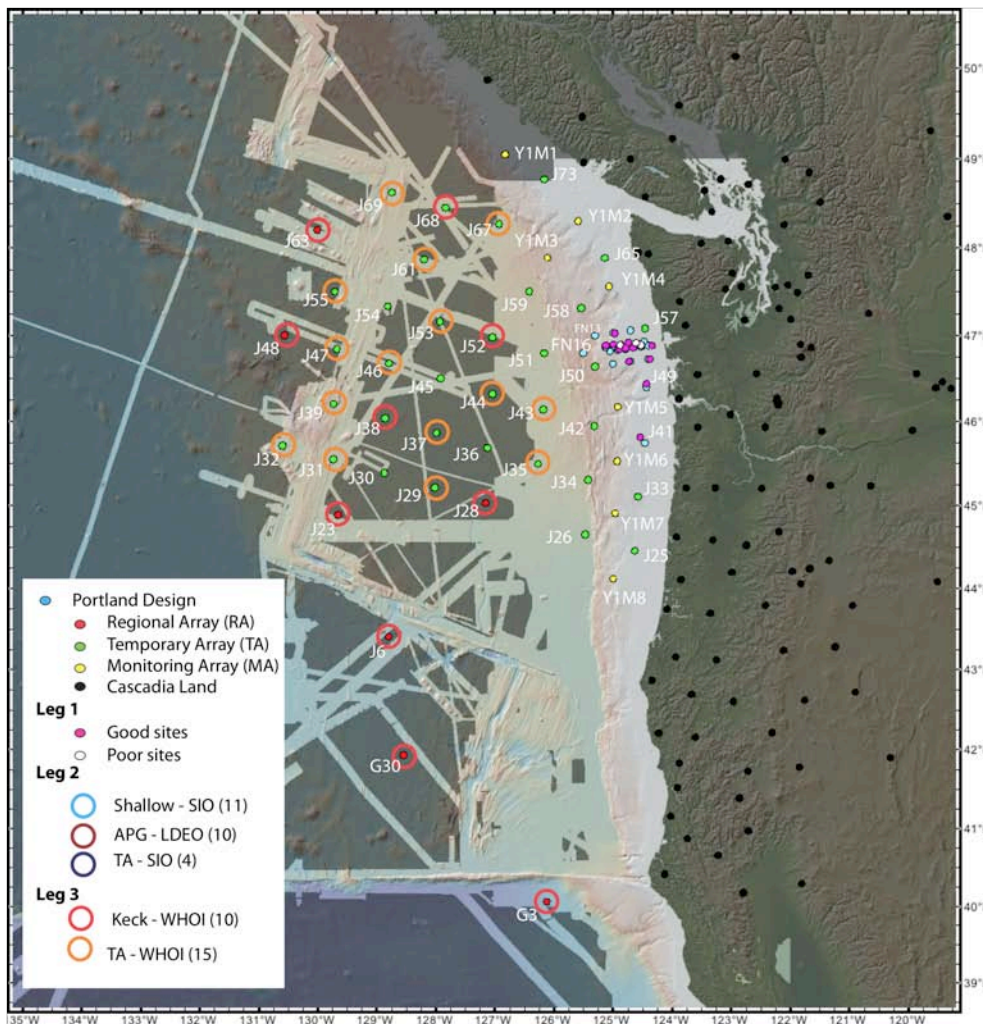
Keck Instruments

The 10 Keck OBS (red circles) have a good long period response and a lower noise floor and will be deployed at the 7 regional array sites that will be out for all 4 years (small red dots): G3, G30, J6, J23, J28, J48, J63. The remaining 3 sites are spread across the Juan de Fuca plate: J38, J52, J68.

WHOI OBS

The remaining WHOI OBS (orange circles) will make up the bulk of the temporary array (small green dots). They are located at 15 sites: J29, J31, J32, J35, J37, J39, J43, J44, J46, J47, J53, J55, J61, J67 and J69.

The Keck and WHOI OBSs will both be deployed on Leg 3.



Summary

Total of 50 sites to be deployed on Legs 2 & 3.

