

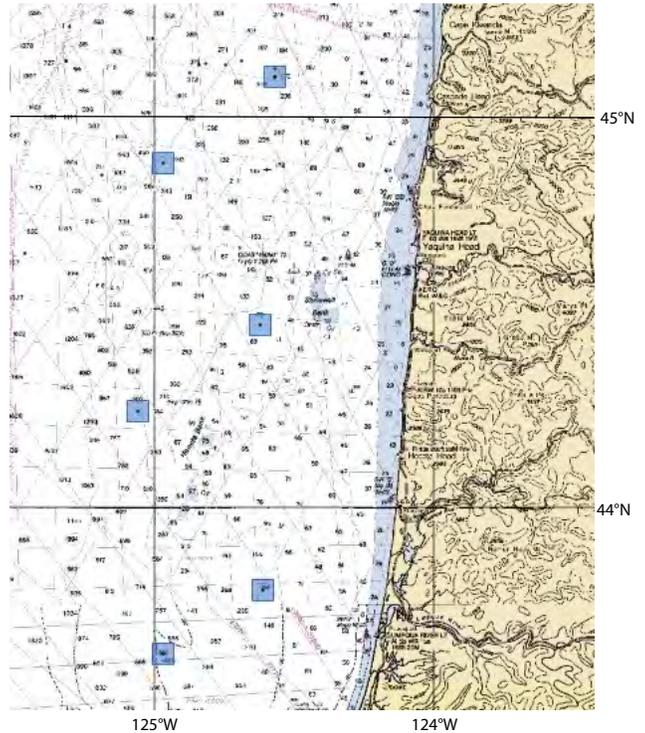
## The Cascadia Initiative Experiment Year 2, Leg 2 Deployment (July 2012 to July 2013)

Six ocean bottom seismometers (OBS) of a trawl-resistant design were deployed offshore of Oregon during July 2012. They will be retrieved during summer 2013. The instruments are identical to those that were deployed off Grey's Harbour in July 2011 and were then removed in July 2012.

The objective of the deployment is to record local and distant earthquakes. Data will be used to generate an image of the crustal structure and to determine whether small earthquakes are occurring in this region. The results will be used to evaluate earthquake hazards and better understand processes that occur in the Cascadia subduction zone, where the offshore Juan de Fuca plate is diving beneath North America.

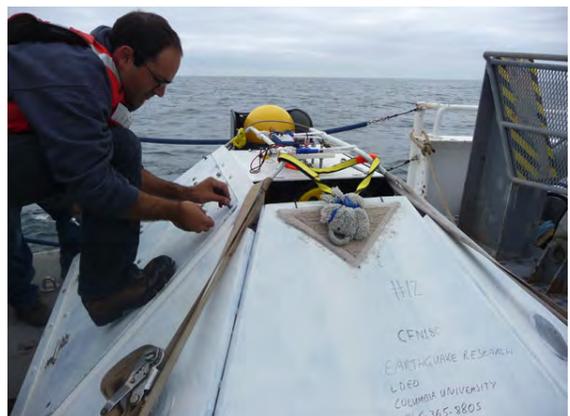
Latitude (deg) (min)	Longitude (deg) (min)	Depth (fathoms)
43 47.3973 N	124 36.8851 W	156
44 28.2762 N	124 37.3002 W	80
45 6.3972 N	124 34.2342 W	191
44 14.9802 N	125 3.5354 W	500
43 37.4859 N	124 58.3689 W	369
44 53.2267 N	124 58.2703 W	394

The table shows where instruments are located on the seafloor. We request that crabbers, shrimpers and other fishermen please avoid all of these sites. The locations were selected with input from fisheries representatives to minimize impact on fishing activities. The entire package will be retrieved at the end of the experiment; no anchors are left behind with this new design.



Instrument drop locations (six blue squares) shown on NOAA chart.

Photographs of the new trawl-resistant OBS. Photo below shows final preparations before deployment. Rope lashings were added to decrease the chance of trawling gear getting entangled in the handles. Photo on the left shows the instrument as we prepare to lower it to the seafloor. Cylinders and floats above the instrument are the release mechanism and do not remain on the seafloor.



For additional information about this project, please see <http://pages.uoregon.edu/drt/CIET> or contact Richard Allen, UC Berkeley Seismological Laboratory (rallen@berkeley.edu; tel 510-642-1275), Maya Tolstoy, Lamont-Doherty Earth Observatory of Columbia University (tolstoy@ldeo.columbia.edu, tel 845-365-8791) or one of the other members of the Cascadia Initiative Expedition Team.