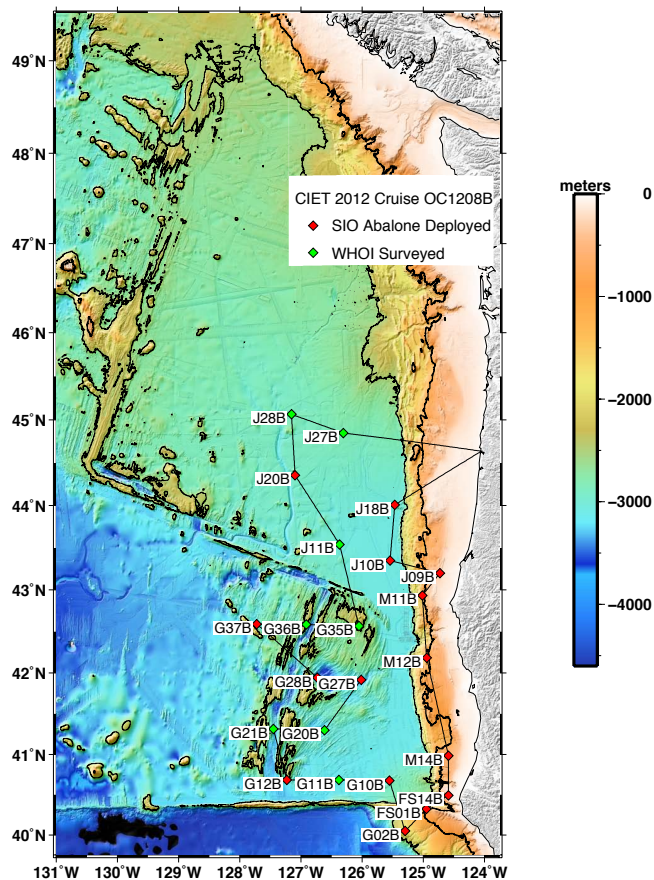


Cascadia Initiative deployment update – September 6, 2012

The fifth expedition of the Cascadia Initiative (CI) in 2012 was conducted on the *R/V Oceanus* between August 31 – September 6, 2012. The objectives of leg OC1208B were to deploy 15 of the 70 sites comprising the Year 2 ocean bottom seismic (OBS) array of the Cascadia Initiative. The deployed OBSs will record seismic and acoustic data for approximately one year with their recovery scheduled for June 2013; data will be publically available following recovery.

During OC1208B fifteen trawl resistant Abalone OBSs built by the Scripps Institute of Oceanography (SIO) were successfully deployed and surveyed. The cruise plan called for deployment in clockwise order, moving southward along the Oregon and California shelf and then deploying deep water sites on the Pacific, Gorda and Juan de Fuca plates on the way back toward Newport, OR. All 15 SIO stations were deployed under good to moderate weather conditions, with some site locations modified by one to four kilometers to place the OBS on relatively flat seafloor. Along with deploying and acoustically surveying the 15 SIO OBSs, we surveyed 6 Woods Hole Oceanographic Institution (WHOI) OBSs deployed during an earlier expedition. We also interrogated two WHOI instruments, which did not respond. A total of four conductivity/temperature/depth (CTD) casts were also collected. Figure shows a map of deployment and survey sites.

OC1208B 31 Aug – 6 Sep, 2012



A complete cruise report along with details of the ongoing community experiment are available at the Cascadia Initiative Expedition Team website- <http://cascadia.uoregon.edu/>.

Table 1: Planned and actual OBS deployment sites

Station Name	Planned Latitude (decimal degrees)	Planned Longitude (decimal degrees)	Depth (m)	Actual Latitude	Actual Longitude	Actual Depth	Distance from planned site (km)
J18B	43.9862	-125.4393	2828	44.0086	-125.4672	3045	3.97
J10B	43.3488	-125.5447	3070	43.3488	-125.5447	3093	0.00
J09B	43.1515	-124.7272	250	43.1514	-124.7274	252	0.02
M11B	42.9498	-125.0287	1175	42.9331	-125.0169	1108	2.27
M12B	42.1847	-124.9448	1048	42.1849	-124.9449	1066	0.02
M14B	40.9850	-124.5900	636	40.9851	-124.5902	638	0.02
FS14B	40.4922	-124.6040	130	40.4960	-124.5933	107	1.26
FS01B	40.3385	-124.9420	940	40.3283	-124.9500	949	1.44
G02B	40.0486	-125.2989	1904	40.0492	-125.2988	1920	0.07
G10B	40.6783	-125.5521	2938	40.6783	-125.5520	2967	0.01
G12B	40.6872	-127.2033	2749	40.6876	-127.2300	3108	2.96
G27B	41.9383	-126.0108	3219	41.9173	-126.0187	3367	2.49
G28B	41.9243	-126.7430	3267	41.9418	-126.7333	3327	2.22
G37B	42.5907	-127.7317	3014	42.5917	-127.7041	3008	3.07
J20B	44.3652	-127.1083	2911	44.3542	-127.0958	2942	1.85