

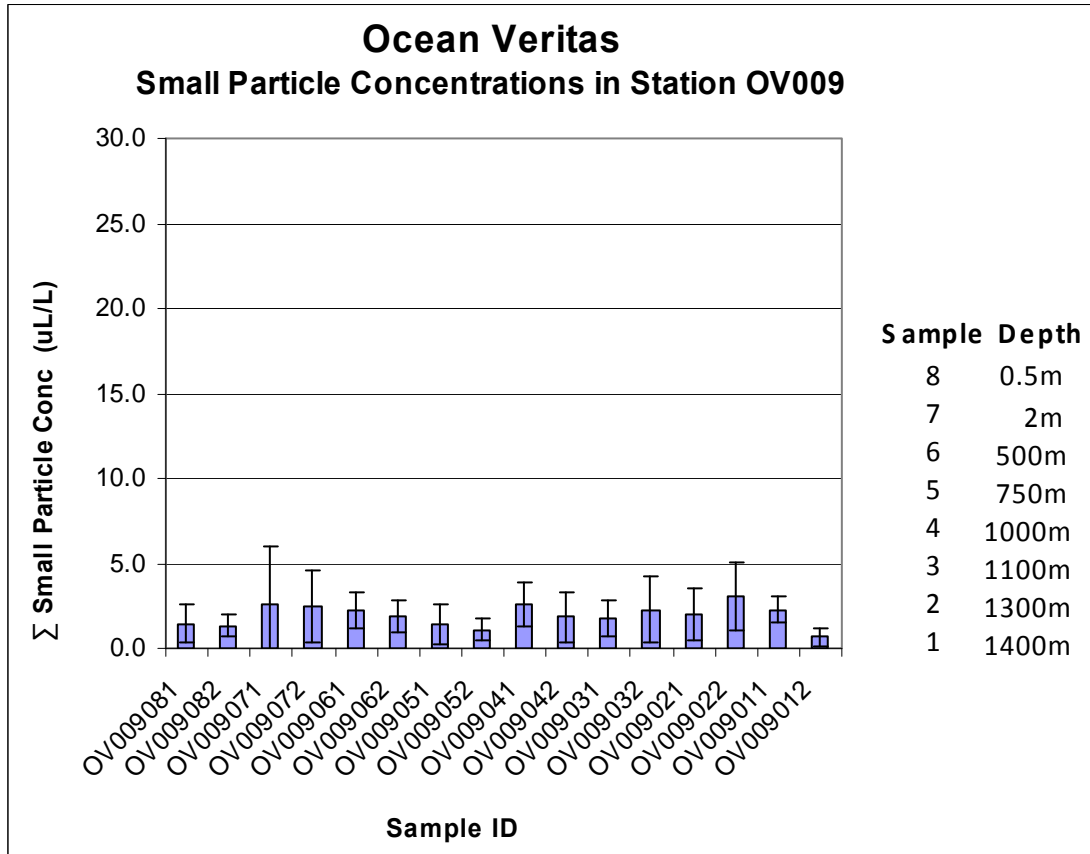
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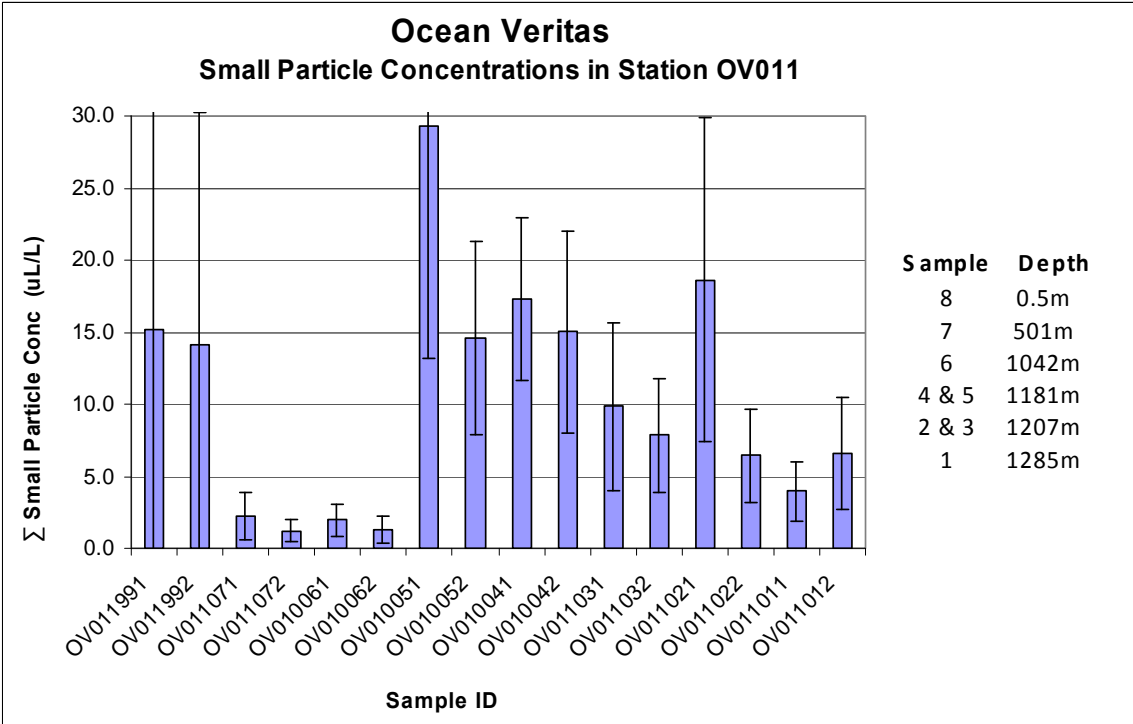
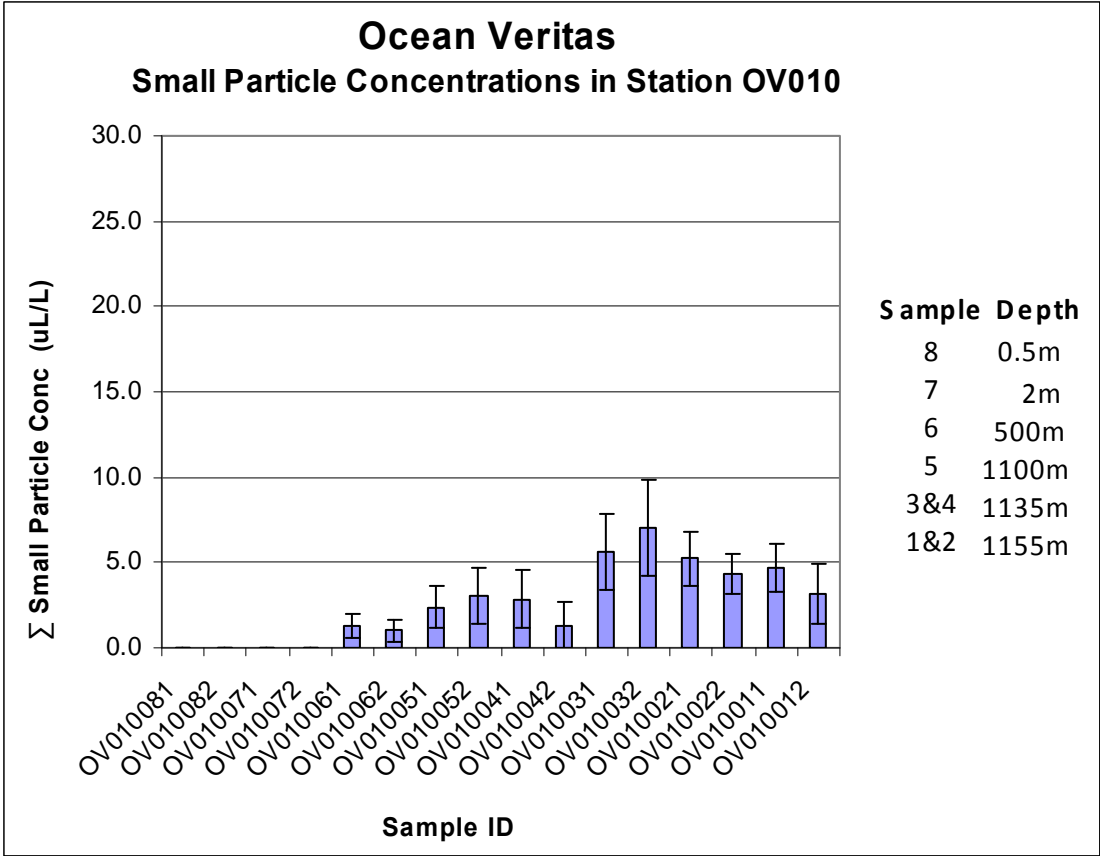
Daily Report: Tracking the Plume of Dispersed Oil using Particle Size Distribution Measurements

May 29, 2010

Water samples were collected at four stations for particle size distribution measurements using the LISST-100X particle counter. A total of 62 LISST samples were analyzed, including duplicates. Samples were also collected and stored for shore based fluorescence intensity ratio measurements.

Figure 1. Presents the small droplet (Σ 2.5 - 60 μ m) particle size data for stations OV009 and OV012. A total of four sites were visited. At site OV010 we found the plume and detected our strongest fluorescence signal at station OV011 (Fig.2). Niskin bottle #7 (2m) did not fire due to a short in the cable when the rosette was ascending. The short in the cable occurred when the rosette was 10m from the surface. The surface sample contained a high volume of oil that overloaded the LISST. Much cleaning was required and blanks were analyzed.





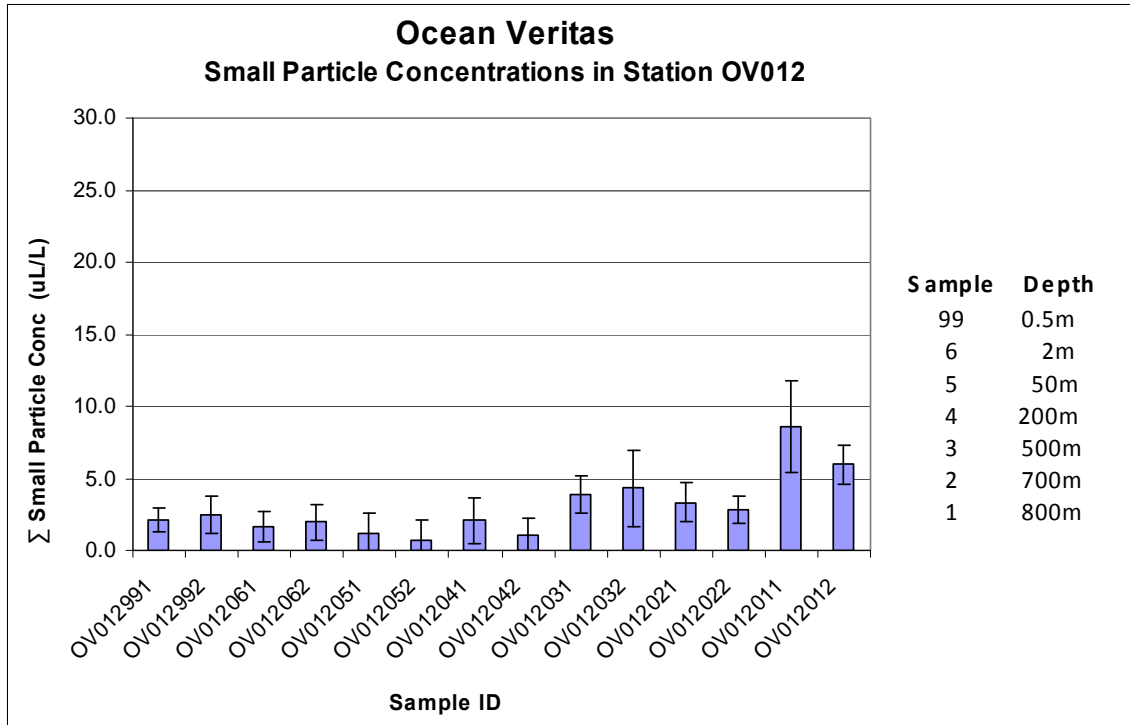


Figure 1: Average small particle concentrations as a function of depth from stations OV009 to OV012.

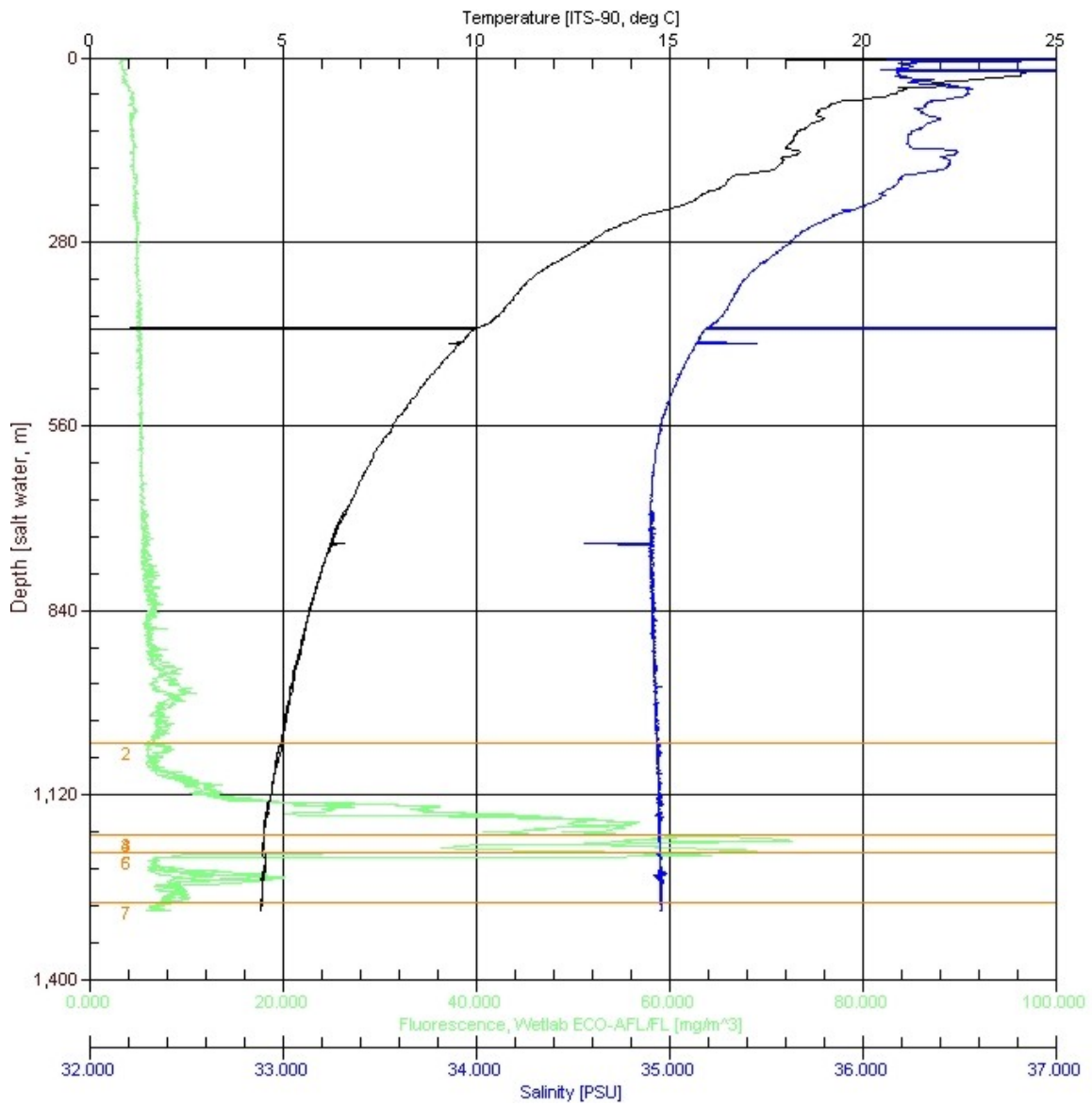
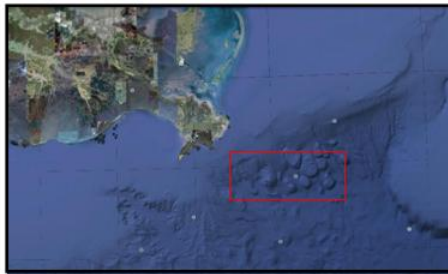


Figure 2: CTD OV011

Ocean Veritas Cruise 1

5-29-10

Sampling Map



Green = Completed sample
Red = Planned sample

Site	Lat	Long
OV001	28°47'50.28"N	88°45'31.34"W
OV002	28°39'57.88"N	88°45'24.50"W
OV004	28°40'36.18"N	88°21'46.28"W
OV005	28°48'08.30"N	88°21'57.77"W
OV006	28°43'02.20"N	88°23'07.02"W
OV007	28°48'27.10"N	87°58'11.87"W
OV008	28°40'47.95"N	87°58'01.98"W
OV009	28°44'27.58"N	88°10'07.73"W
OV010	28°43'48.99"N	88°25'00.74"W
OV011 (B52)	28°43'55.24"N	88°22'36.44"W
OV012	28°44'07.59"N	88°33'27.29"W

