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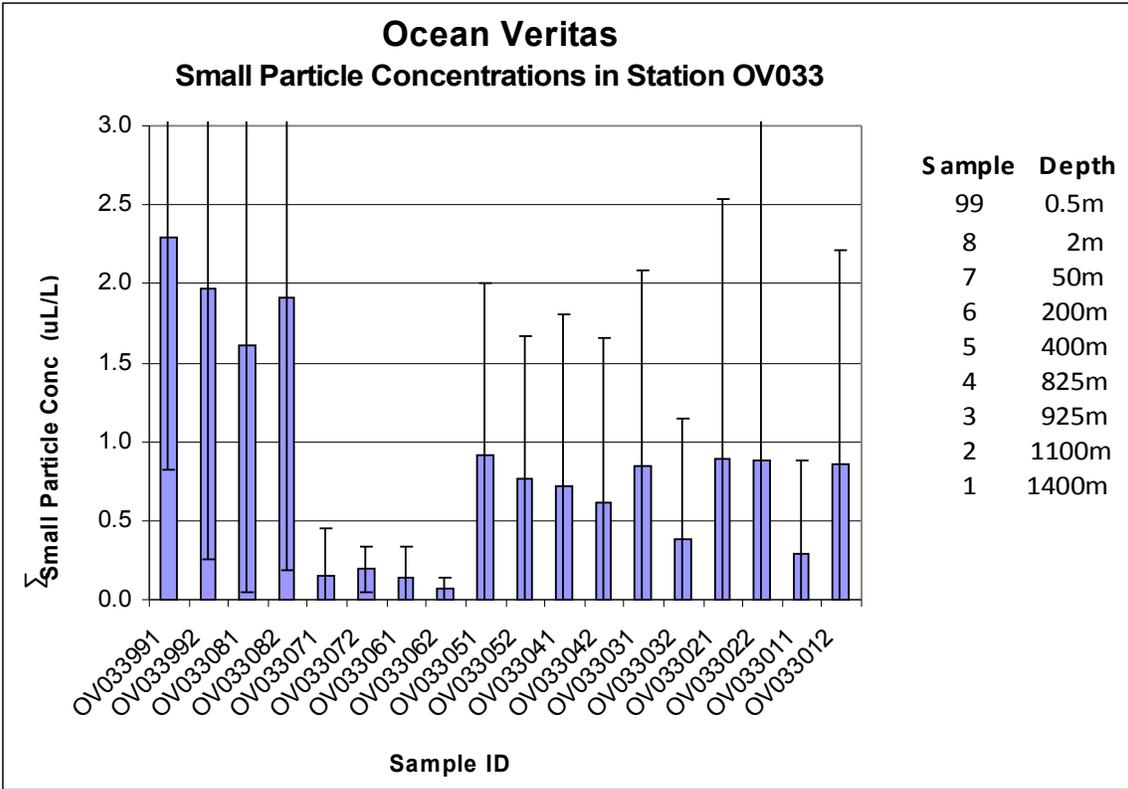
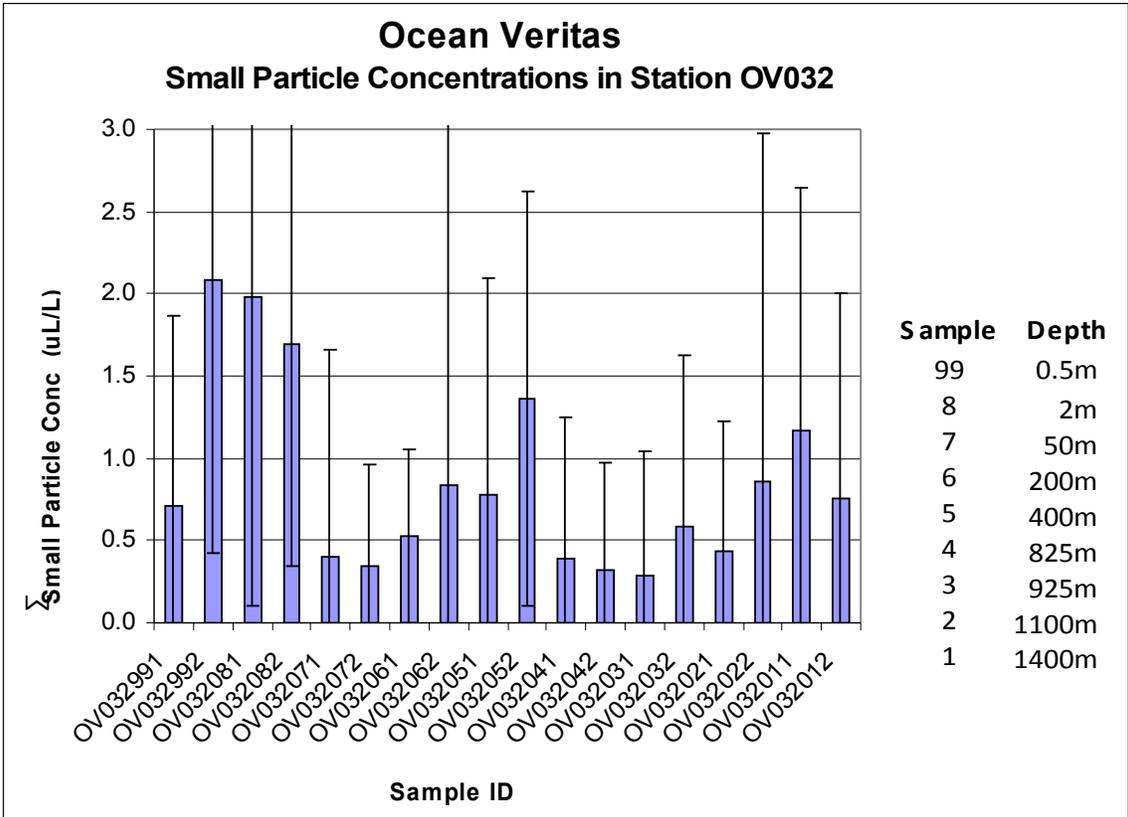
Daily Report: Tracking the Plume of Dispersed Oil using Particle Size Distribution Measurements

June 9, 2010

Water samples were collected at four stations for particle size distribution measurements using the LISST-100X particle counter. A total of 72 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 (\sum 2.5 - 60 μ m) particle size data for stations OV032 through OV035. LISST analysis and in-situ fluorometry did not detect the plume in stations OV032 through to OV034. Station OV035 had a distinct fluorescence signal at 1140m, complimenting the LISST data. Station OV035 had a high concentration of small particles at the surface (0.5m).

Station #	Lat	Long
OV032	28.71553	-88.361426
OV033	28.715869	-88.37169
OV034	28.718224	-88.376945
OV035	28.723998	-88.384983



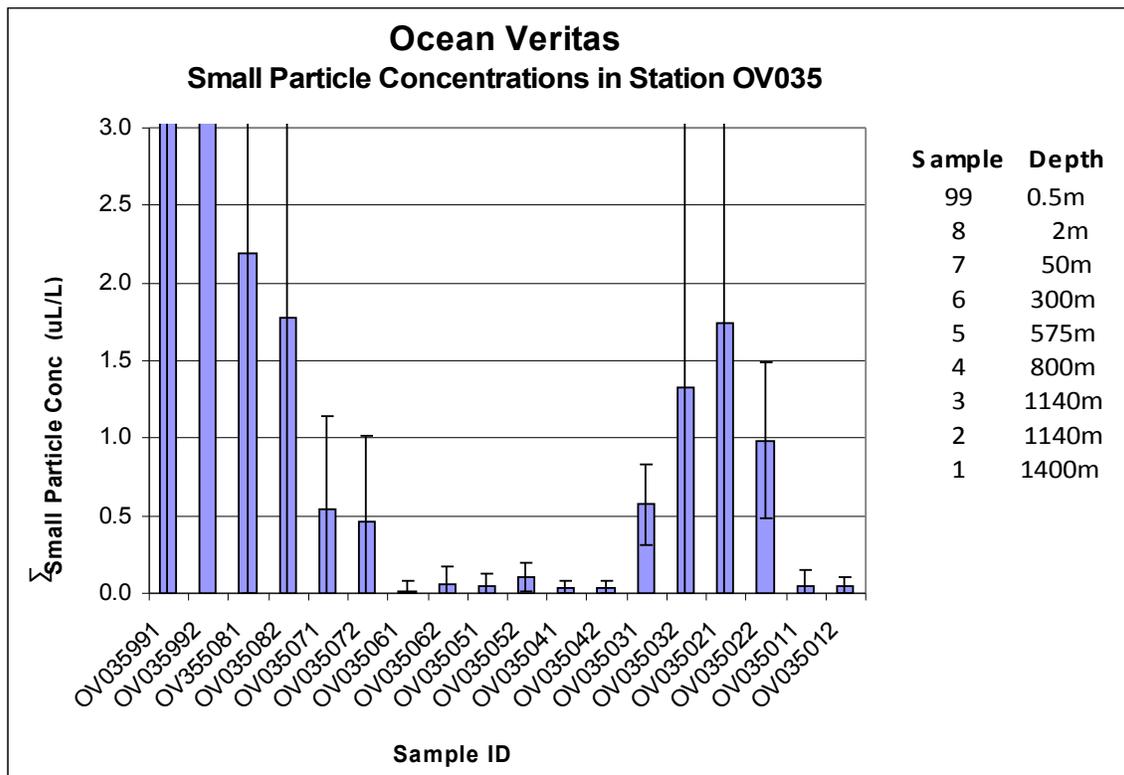
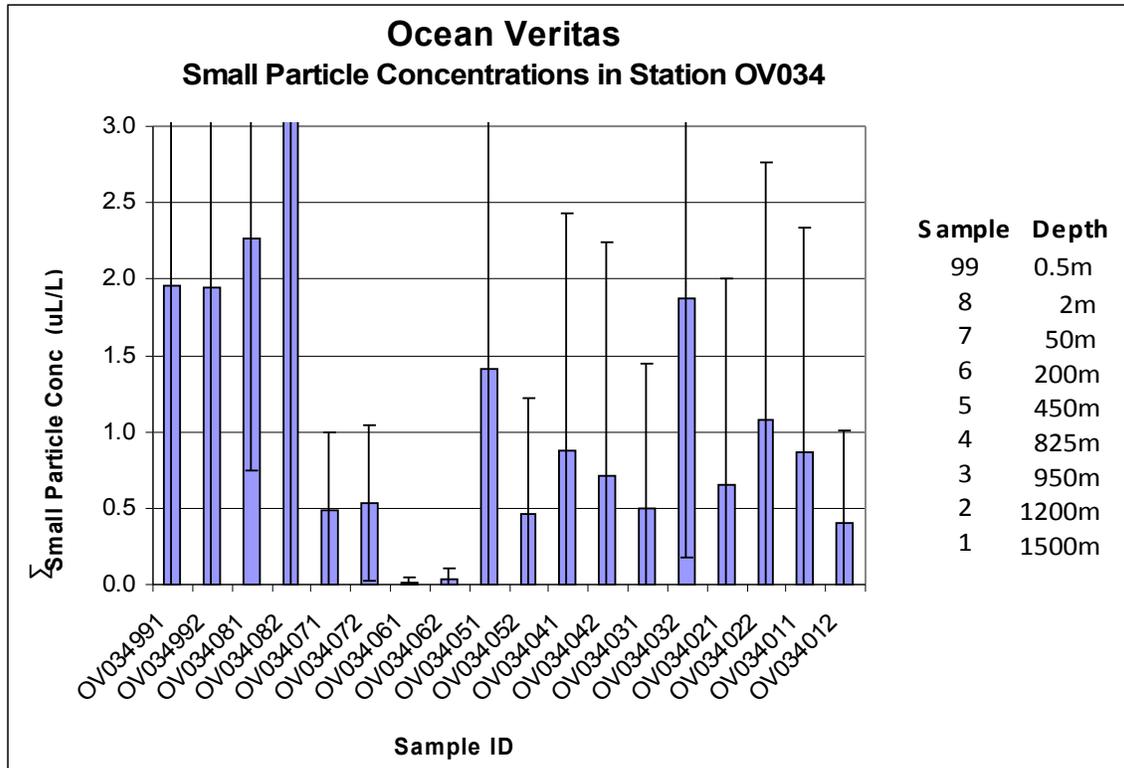


Figure 1: Average small particle concentrations (n=20) as a function of depth from stations OV032 to OV035.

