

US EPA ARCHIVE DOCUMENT

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

**June 22, 2010**

Water samples were collected at one station for particle size distribution measurements using the LISST-100X particle counter. A total of 14 LISST samples were analyzed, including duplicates. Samples were also collected and stored for fixed wavelength fluorescence intensity ratio measurements.

Figure 1 presents the small droplet ( $\Sigma$  2.5 - 60 $\mu$ m) particle size data for stations OV062. LISST analysis indicates elevated surface small particle concentrations than other water column small particle concentrations. All the subsurface small particle concentration has no distinction from each other, and no statistical difference from the background (0.294  $\pm$  0.034 $\mu$ l/L).

Station #	Lat	Long
OV062	28.754515	-88.357993

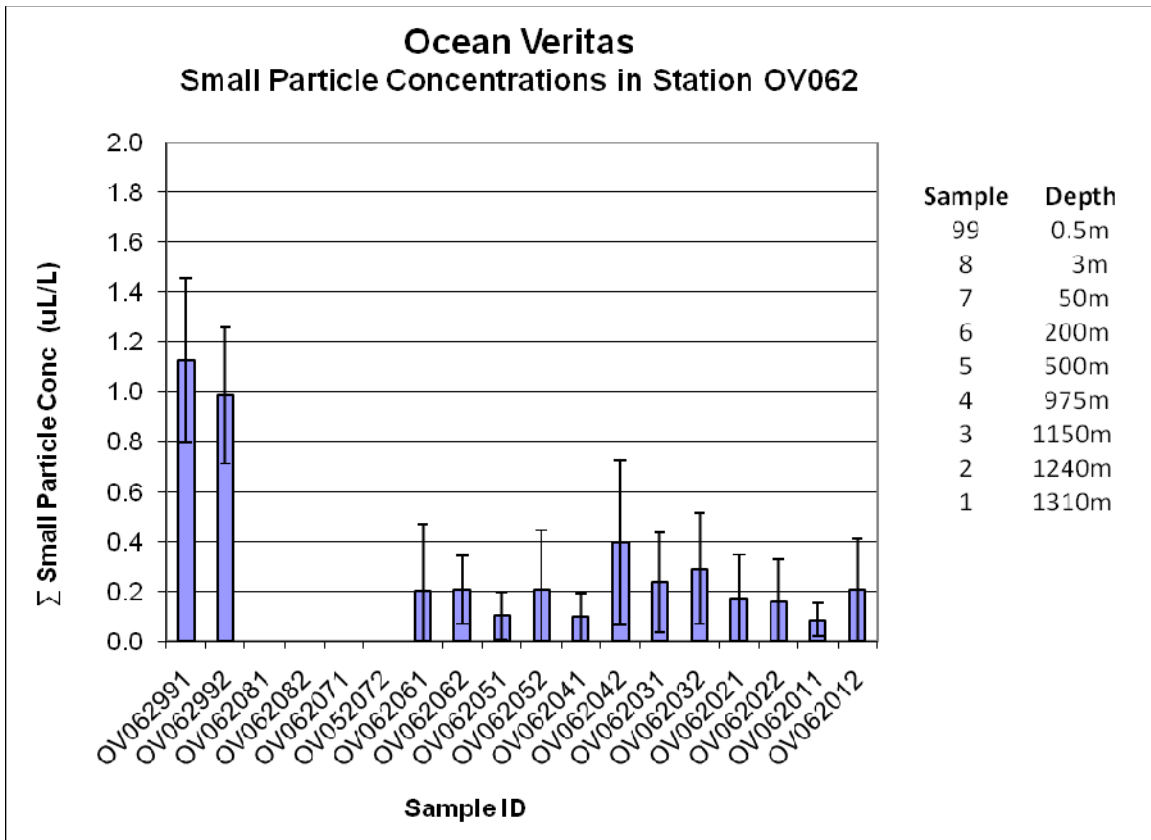


Figure 1: Average small particle concentrations as a function of depth from station OV062.