

US EPA ARCHIVE DOCUMENT

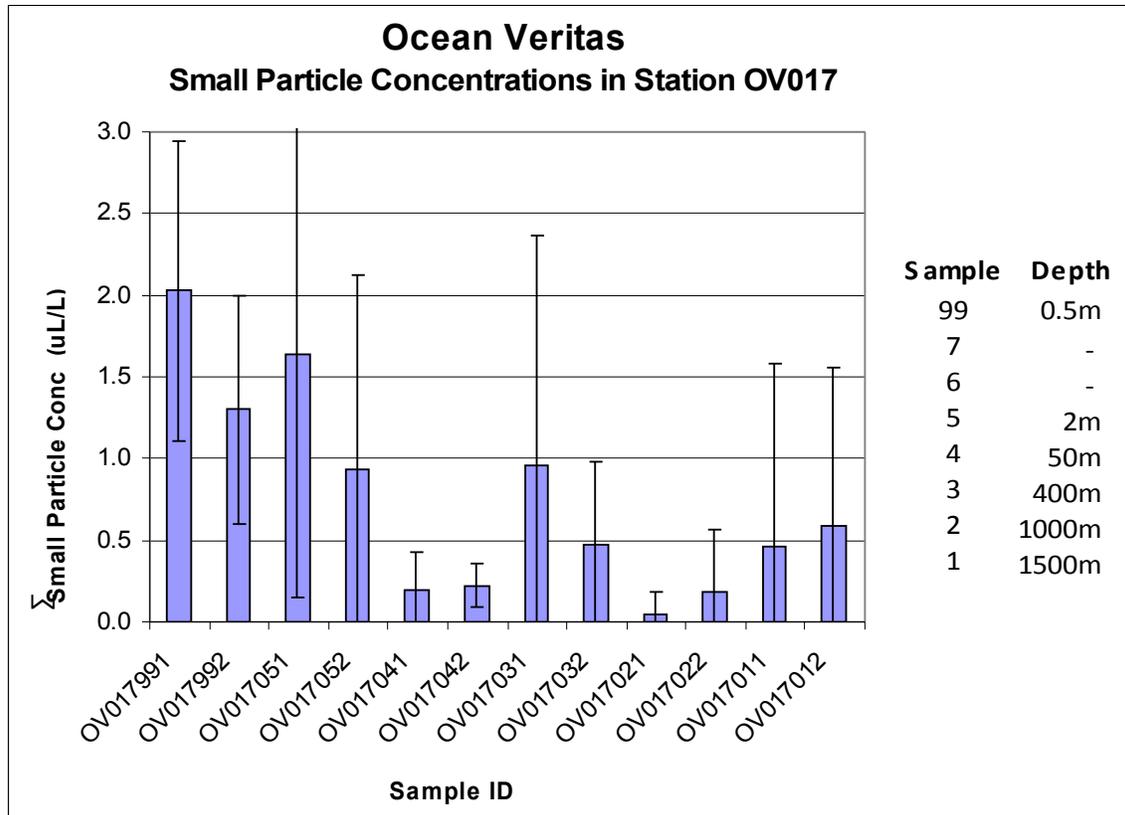
Daily Report: Tracking the Plume of Dispersed Oil using Particle Size Distribution Measurements

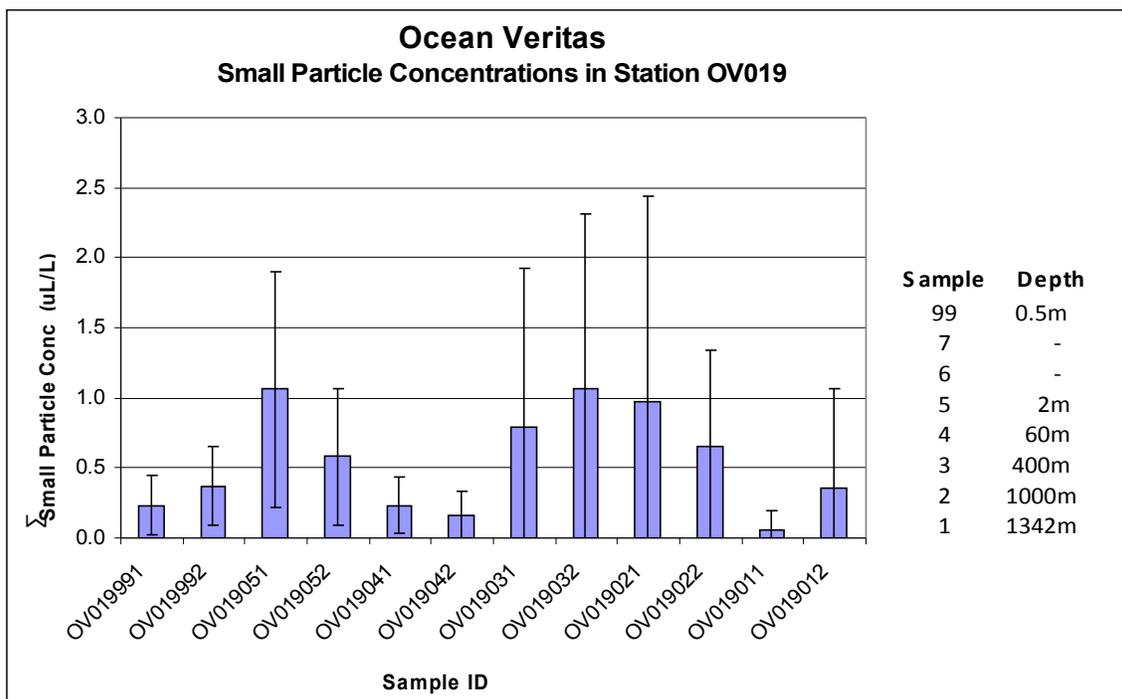
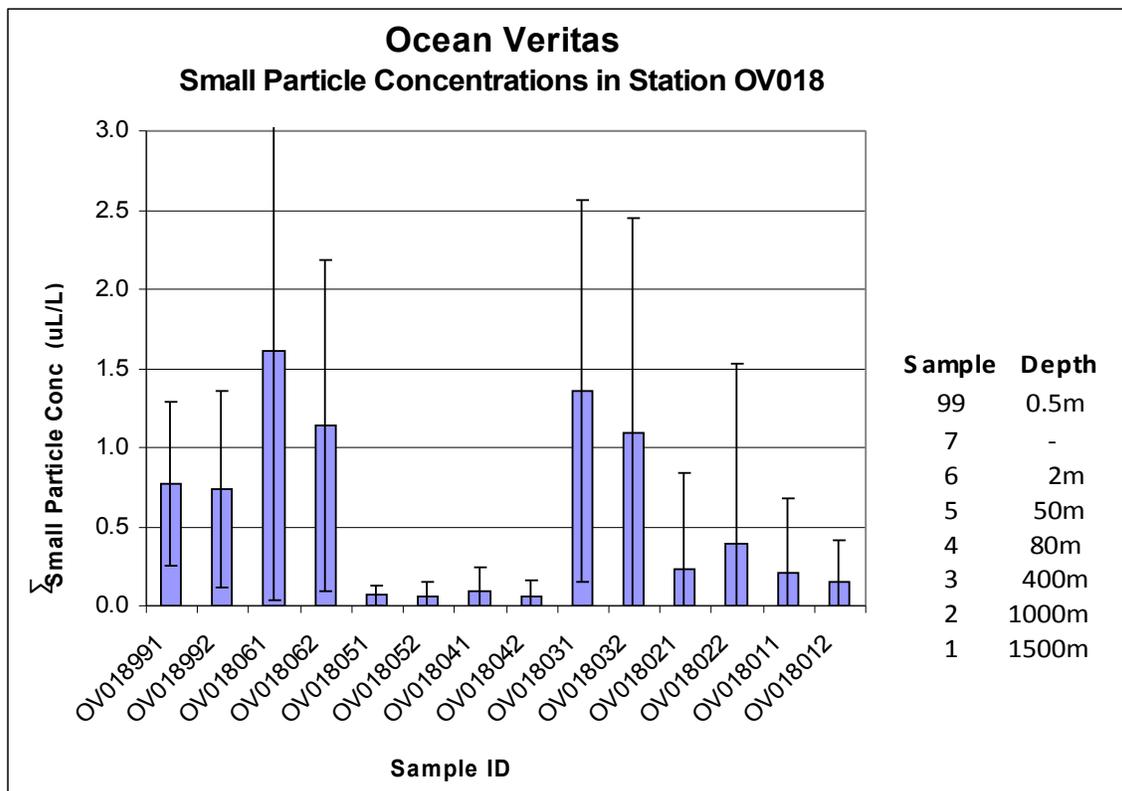
June 3, 2010

Water samples were collected at four stations for particle size distribution measurements using the LISST-100X particle counter. A total of 50 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 and fluorescence intensity ratios for stations OV017 through OV020. Station OV017 was approx. 4.6km southwest of the well head. Station OV018 was approx. 8.0km southwest of the well head. Station OV19 was approx. 10.4km southwest and OV20 was approx. 8.0km southwest of the well head. We did not detect the plume at any of these stations.

Station OV018 had slightly higher concentration of small particles at the surface, 2m and 400m.





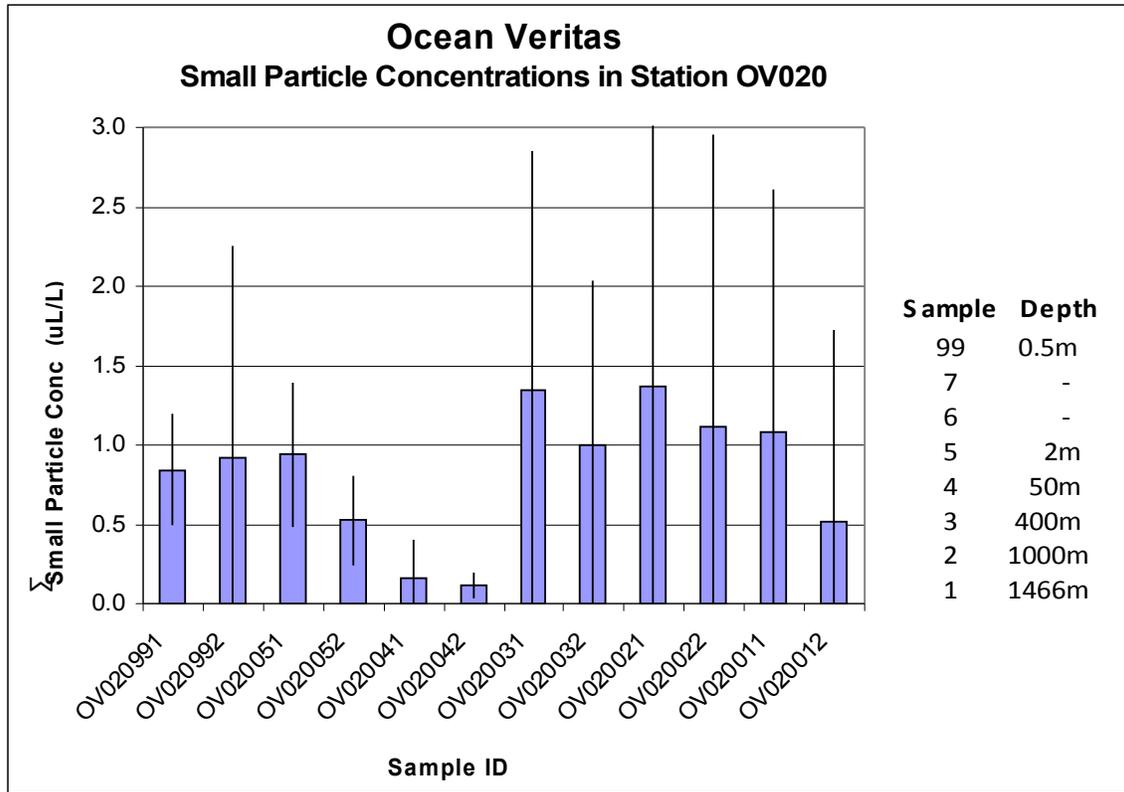


Figure 1: Average small particle concentrations as a function of depth from stations OV017 to OV020.