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

May 28, 2010

Water samples were collected at one station for particle size distribution measurements using the LISST-100X particle counter. A total of 12 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 (∑ 2.5 - 60µm) particle size data for stations V05 (site 4). Station V05 was located at Lat 28°43'02.20011"N, Long 88°28'07.01832"W.

A total of four sites were visited. Site/station numbers 4/V05, 5/V06, 6/V07, and 11/V08. Samples were only collected at V05. Based on CTD/fluorometry data, the Chief Scientist determined that we would not sample at the three remaining sites. Note – Site numbers and station numbers do not coincide. Refer to map below for sampling locations.

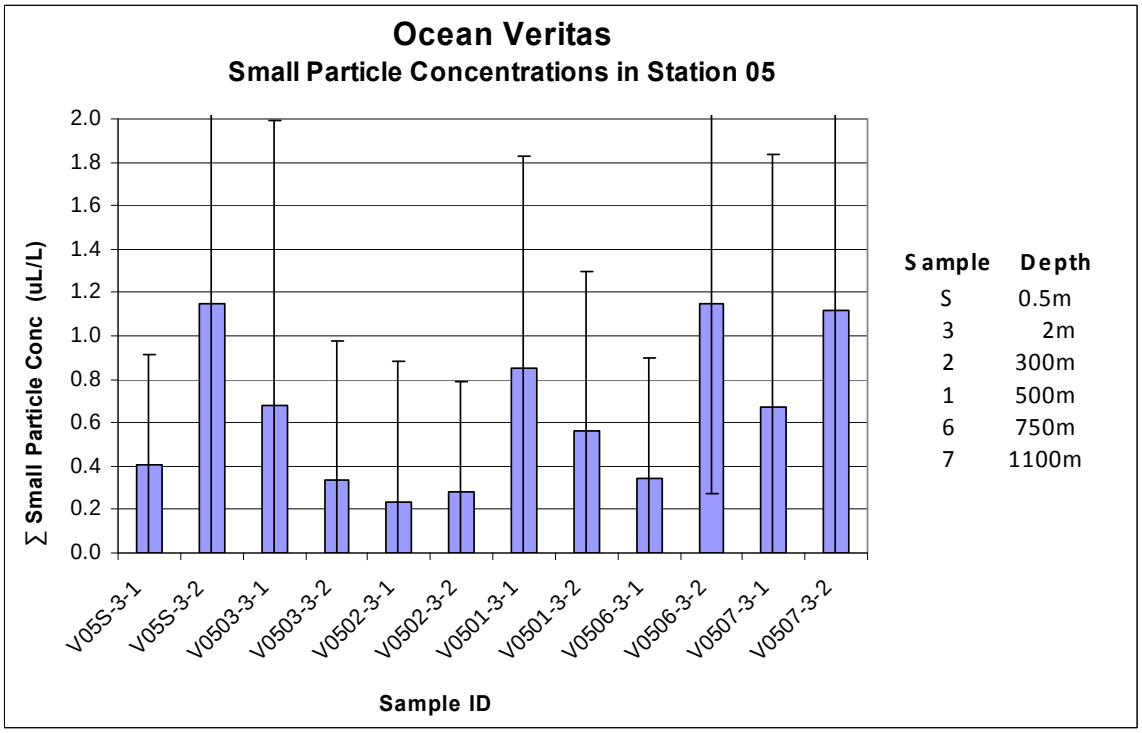

Figure 1: Average small particle concentrations as a function of depth from stations V01 to V04.

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