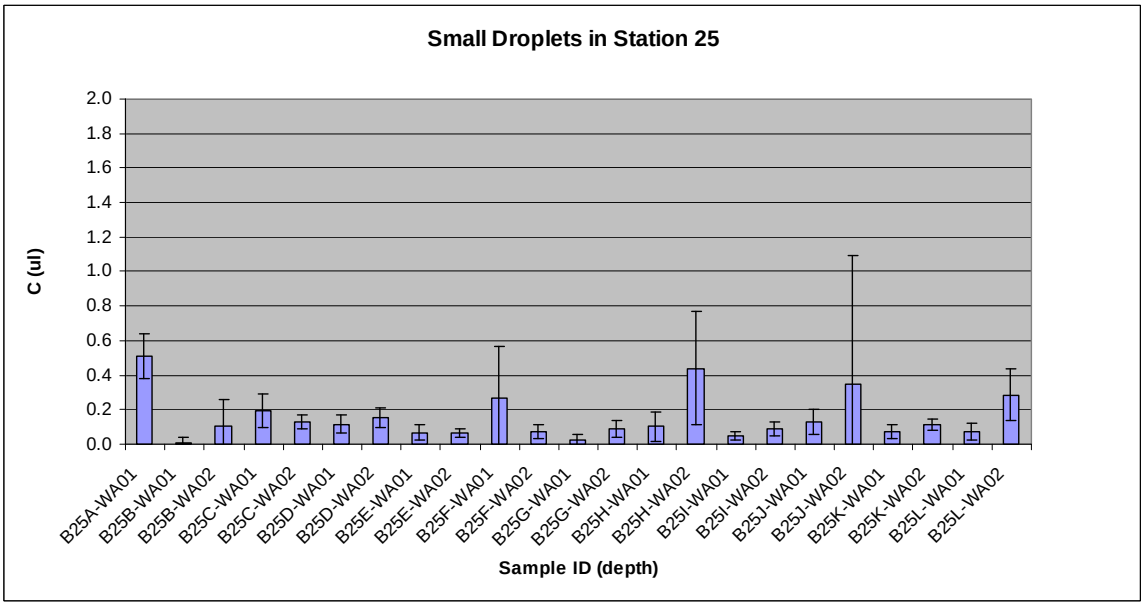
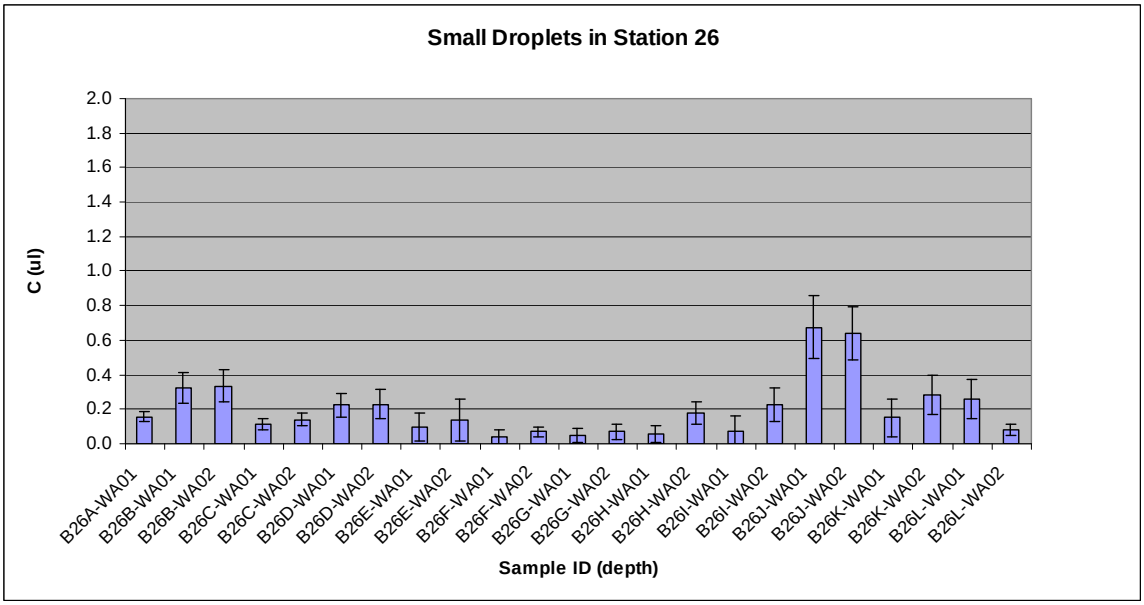
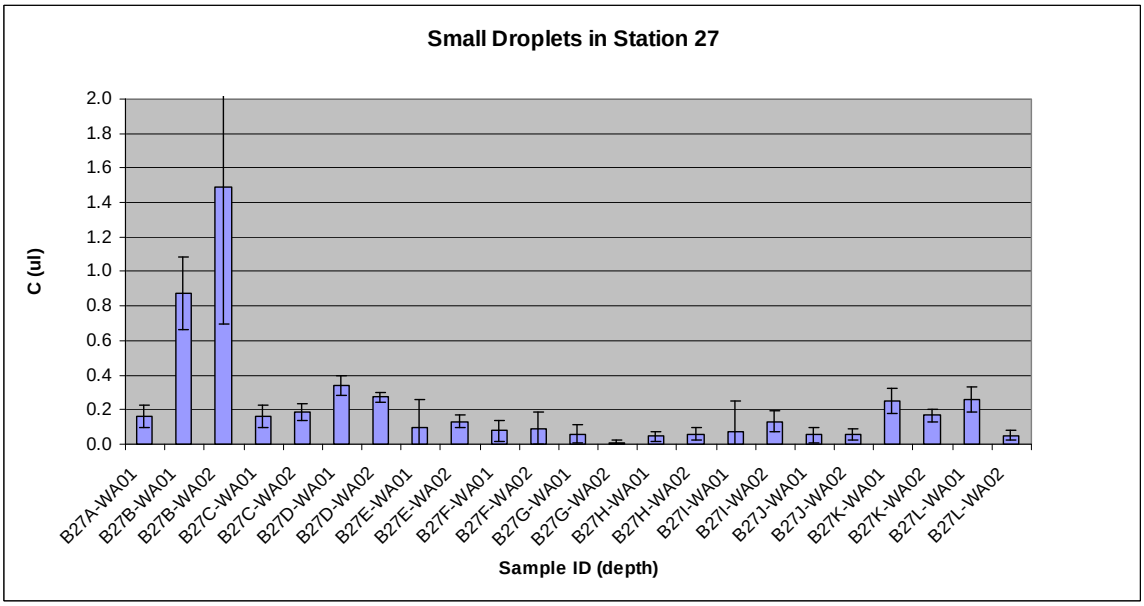
Evidence of dispersed oil droplets using the LISST-100X particle counter
May 17, 2010

Four additional stations were sampled for water column CTD, particle size distribution, and hydrocarbon analysis.

Figure 1 presents the small droplet particle size data for the station 25 ~ 28. The small droplet concentrations were generally low in all four stations at different depths. Consistent with the observation made on May 15 and 16, 2010, the data illustrates that at the surface (2m), there were significant amount of small particles that can be detected, and the second highest small droplet concentrations were observed at lower depths ranging from 1000 to 1300 m for all four stations. A transect line was run out from station 26 to monitor the diminishment of the subsurface plume. Results are closely related to the *in situ* fluorometry measurements. There is evidence that the plume extended out as far as 16km.







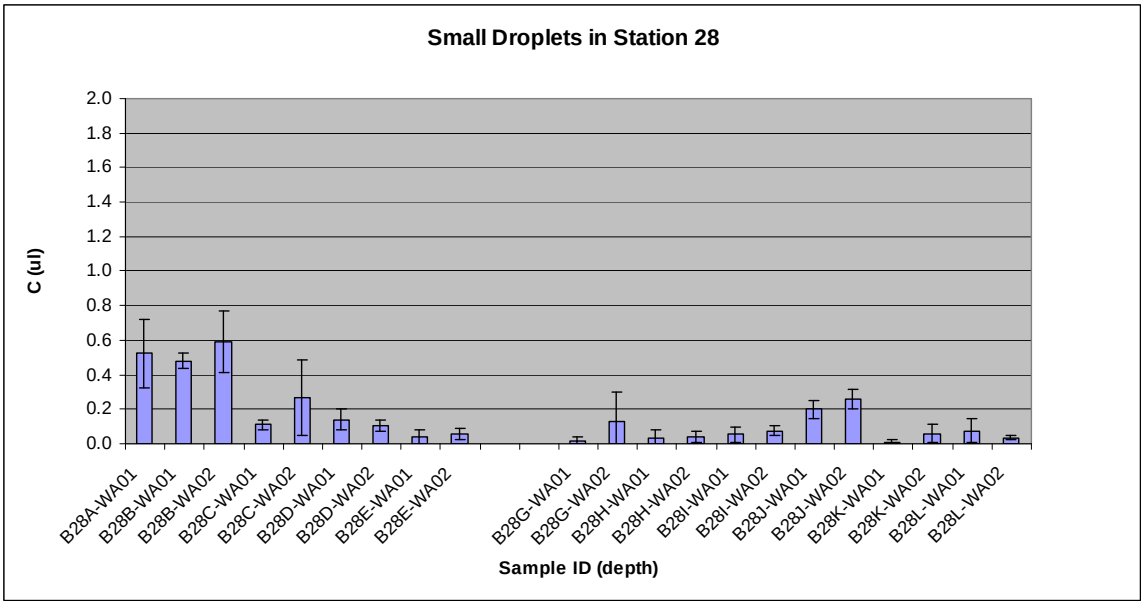


Figure1: Average small droplet concentration as a function of depth from stations 25 ~ 28.