Dissolved oxygen measurements taken by the CTD and the ProODO field probe on 08/31/2010 trend together following a similar dissolved oxygen curve through the water profile. CTD readings were taken underwater at actual temperature and depth. ProODO Field Probe readings were taken on deck in Nisken bottles immediately upon rosette recovery. OV217 and OV218 were taken with field probe ProODO (#10F100879) with a salinity setting of 0 ppt. The probe gave readings lower than the CTD, but the two sets of points were well correlated. OV219 and OV220 were taken with field probe ProODO (#10F101545) with a salinity setting of 35 ppt. OV219 and OV220 had readings that were very similar to the CTD readings and the two sets of points correlated well. These findings are different from comparisons in recent weeks because of the change in the salinity setting. With the 35 ppt salinity setting, the CTD and ProODO probe match very closely. No sheen was found in any of the Nisken bottles at any of the sampled depths.