Dissolved oxygen measurements taken by the CTD, Winkler titration, and the ProODO field probe on 09/09/2010 trend together following a similar dissolved oxygen curve through the water profile. CTD readings were taken underwater at actual temperature and depth. Winkler titration samples were procured as soon as the Nisken bottles arrived on deck and readings were taken immediately. ProODO Field Probe readings were taken on deck in Nisken bottles immediately following Winkler sampling. ProODO probe values correlated very well with CTD values on all casts. However there was one slight exception at the 50 meter depth of the OV248 cast where the probe value was 0.93mg/L greater than the concentration reported by the CTD. A Winkler titration was performed on this sample and was approximately midrange between the CTD value and the probe value. This value may be considered an outlier as all other values correlated very well on the OV248 cast. The salinity was changed from 35ppt to 36ppt on the ProODO field probe for the 50m and 3m samples. This change in salinity (to account for the higher salinity at the seawater surface) allowed more accurate DO reading with the field probe. No sheen was found in any of the Nisken bottles at any of the sampled depths.









