Cast 9

Station 8

January 13: 16:35

-76 40, 171 30

691 m depth

 This station was chosen to be a high biomass station at the center of a patch of high chlorophyll in a modis image.

A thin (10 m) thick surface layer had fluorescence up to 26 mg/m^3 and temperatures up to 2C. The layer had a strong reduction in beam attenuation (below 70%).

Temperature and oxygen decline through a second surface layer (10 to 50 m) which appears to be the base of a previous wind mixed layer. At 50 m is a second fluorescence max (5 mg/m^3) and decrease in transmissivity (to about 91/%).

From 100 to 500 m, water conditions are uniform (with slight increase in salinity) . Temperature is about freezing and salinity is 34.5 to 34.7 indicating modified shelf water. The bottom 200 m of the water column (500 to 700 m) has increasing salinity (to about 34.73) and slightly decreasing oxygen indicating a different (older) shelf water.



