Cast 39

Station 38

January 20, 17:45:16

-76 42.99, 179 15.29

172 m depth

This station is on top of Ross Bank. It is the first sampling as part of a SE to NW section across the Bank.

There is a thin (10 m) surface mixed layer with a surface temperature of -0.4C. Peak fluorescence is at 25 m depth with a value of 5 mg/m^3.

The thermocline extends to 90 m, below which is a layer to the bottom with uniform conditions. Temperature is about surface freezing and the salinity is about 34.5. The uniform conditions seem to be due to bottom mixing.

These samples were taken during spring tides (according to L. Padman’s tidal model). The flow magnitude is estimated to be about 30 m/s.

There is no hint of CDW or ISW in this cast.



