Cast 12

Station 11

Jan 15, 09:49

-76 44, 170 11

748 m depth

This station is part of an east-west sampling line around eddy 3. This is station West 1 which is just west of the eddy center.

There is a bit of structure in the top 50 m. A 10 m thick layer at the surface has uniform temperature (1.2 C). A 25 m thick layer has uniform salinity which is likely the wind mixed layer. Fluorescence (13 mg/m^3) is less than at eddy center. Temperature and oxygen decrease over the top 50 m of the ocean which is likely the remainder of the winter mixed layer.

The water below 50 m is at surface freezing with linearly increasing salinity to about 34.74 at 700 m. There is a slight Tmin at 250 m (T=-1.92) which is slightly below surface freezing and could be a minor contribution by ISW.



