Cast 51

Station 49

January 22, 01:37:52

-76 43.01, -179 35.12

620 m depth

This station (RBE2) is the farthest east of an east to west section across Ross Bank.

There is a surface layer to 15 m but it is not well mixed. Between 15 and 30 m is the deep part of an older mixed layer. Fluorescence fills the top 80 m with a peak value of 8 mg/m^3 at 40 m.

There is a broad Tmax between 260 and 300 m with an associated reduction in oxygen. This is influence of CDW.

There is a low temperature region between 300 and 400 m with temperatures below surface freezing. This indicates a layer of ISW.

Below 400 m, the temperatures rises to freezing again. Salinity increases linearly with depth from 50 m to the bottom.



