Cast 58

Station 56

 January 24, 03:35:21

-77 26.00, 178 48.20

621 m depth

This station (RISN2) is the beginning of a set of stations by the Ross Ice Shelf. This station is part of a short north-south line.

The surface mixed layer is 50 m thick with a surface temperature of -0.1C. There is a strong fluorescence between 0 and 80 m with a peak of 28 mg/m^3 at 30 m depth.

The temperature is close to freezing at 150 m. A layer of warmer water occurs from 280 to 340 m with a corresponding decline in oxygen. This is the influence of CDW. A deeper layer, between 400 and 550 m has temperature below freezing indicating ISW. There is a noticeable increase in the vertical salinity gradient below 400 m associated with the ISW layer.


