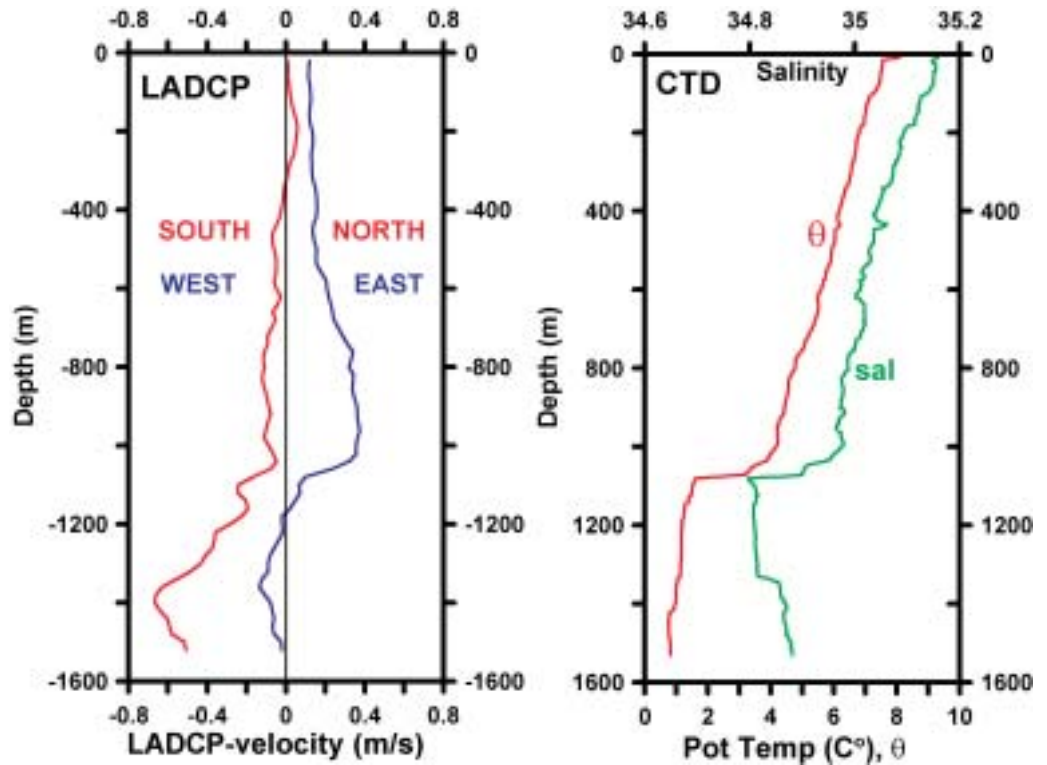


DENMARK STRAIT OVERFLOW IN ACTION.

Contributor: C. Veth

Flow measurements (left panel) determined with a lowered ADCP (Acoustic Doppler Current Profiler) at a station in the Denmark Strait between Greenland and Iceland demonstrates the presence of a strong bottom current below a depth of 1050 m. This current flows in a south-westerly direction, from the Iceland Sea into the Irminger Sea. The simultaneously measured CTD-salinity and potential temperature profiles are shown in the right panel. The properties of



the water in the bottom current contrast strongly with those of the water above 1050 m. This Denmark Strait Overflow Water (DSOW) is one of the main constituents of the North Atlantic Deep Water (NADW). The measurements were done during the TRANSAT-II cruise with RV Pelagia.