



## **Circulation and transformation of deep water in the North Atlantic**

Monika Rhein, Dagmar Kieke, Reiner Steinfeldt, and Christian Mertens

Bremen University, Institut fuer Umweltphysik, Oceanography, Bremen, Germany (mrhein@physik.uni-bremen.de)

The subpolar North Atlantic is characterized by an inflow of the deep reaching warm and saline North Atlantic Current (NAC), its transformation in colder and denser water, and a southward export of deep water. Thus it is a key area for the Atlantic Meridional Overturning Circulation, We study circulation and water mass transformation with shipboard and moored measurements (hydrography, tracer, velocity), Argo profiles and satellite data. Recent results about the circulation and transports of deep-water masses will be presented.