



## **The Deep Western Boundary Current and its role for the propagation of newly formed deep water in the North Atlantic**

Monika Rhein, Dagmar Kieke, and Reiner Steinfeldt

Bremen, IUP, Oceanography, Bremen, Germany (mrhein@physik.uni-bremen.de, +49 421 218 7018)

Based on model and float results, the importance and the continuity of the Atlantic Deep Western Boundary Current in the Atlantic in transporting newly formed North Atlantic Deep Water (NADW) was doubted, and pathways in the interior of the ocean were found to play a major role. Since the early 1990s several thousands of chlorofluorocarbon (CFC) measurements in the Atlantic were carried out, mainly but not exclusively focused on the western Atlantic. Here we use this extensive data set to discuss the spreading of newly formed deep water masses in the North Atlantic from 60°N to 20°S.