



Exchange of the deep and bottom water masses through the fracture zones of Mid-Atlantic Ridge

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The main goal of the research is to study the exchange between the deep and bottom Atlantic Ocean water mass through Mid-Atlantic ridge with interpretation of archive data and the newest data from Russian Expeditions. The key objects of the investigation are the Antarctic Bottom Water (AABW) and the components of the North Atlantic Deep Water (NADW). The structure of the water masses was determined with obtained data on meridional section nearby the ridge and stations at the fracture zones (FZ). According to bathymetric data (Smith, Sandwell 1997) the locations of the sill of the FZ which confined water mass propagation were defined. As result the features of the water mass transport for the AABW and the NADW were established.