Geophysical Research Abstracts, Vol. 7, 04489, 2005 SRef-ID: 1607-7962/gra/EGU05-A-04489 © European Geosciences Union 2005



## Decadal variability and baroclinic transport of water masses between Africa and Antarctica

A. S.V. Gladyshev (1), B. A.V. Sokov (1), M. Arhan (2)

1. Shirshov Institute of Oceanology, Moscow, Russia, (2) IFREMER, Plouzane, France (sgladyshev@ocean.ru / Fax: +7 095 124 6158)

Using hydrographic, LADCP, dissolved oxygen and nutrient data collected along SR2 line in November 2004 we examine water mass properties, its variability and absolute geostrophic transport. Decadal variability of intermediate and deep waters is analyzed comparing our data set with SR2 line data collected in 1990. We also compare baroclinic transport changes between 1990 and 2004 for the Antarctic Circumpolar Current and north of Subtropical Convergence for different water masses. Comparison of transport estimates between SR1, SR2 and SR3 lines is also performed.