



Fine-jet structure of the Antarctic Circumpolar Current in the central part of the Drake Passage

Roman Tarakanov

P.P. Shirshov Institute of oceanology RAS, Laboratory of seas currents, Moscow, Russian Federation (rtarakanov@gmail.com)

We carried out CTD- and LADCP- measurements in the entire water column at 65 stations of the hydrographic survey in region of the convergence of the Shackleton and West-Scotia ridges in the central part of the Drake Passage. The sections of the survey were oriented along and transverse to the Shackleton Ridge. The distance between stations was 10 miles. The jet structure of the Antarctic Circumpolar Current was analyzed based on these data. It was shown that the survey area encompassed three jets of the South Polar Current, which is the middle branch of the ACC. Fine lateral structure of the thermohaline properties was revealed on the basis of the survey data even when the separated jets merged into a superjet.