

Andrzej Jankowski and Sławomir Swerpel

Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland

Thermohaline structure and dynamics of the top ocean layer in the Norwegian EAZO region in August 1986 (based on results of the NOSEX-86 cruise)

STUDIA I MATERIAŁY OCEANOLOGICZNE KBM PAN, no. 58, POLAR MARINE RESEARCH (1), pp. 5-17, 1991

Key words: thermohaline circulation, Norwegian Sea, geostrophic flow

Manuscript received April 27, 1990; in final form March 29, 1991

Abstract

The article presents spatial distributions of temperature and salinity at selected depths (0, 50, 100 and 200 m) against synoptic conditions in the Norwegian Sea as recorded the cruise NOSEX-86. The results were compared with the climatic data from Levitus (1982) atlas. The analysis of the distributions and the variability of the integral properties of the thermohaline structure of the ocean--enthalpy and salt content--in the active ocean layer was carried out. The global variability of water masses dynamics in the region of observations is discussed, as well as its relation to the thermohaline structure of the upper ocean layer.