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Dynamics of steady circulation wind - driven circulation in the Gulf of Gdansk

STUDIA I MATERIAŁY OCEANOLOGICZNE KBM PAN, 1984, No. 43, 5 - 79
(in Polish)

Abstract

Results of calculations of the steady circulation in the Gulf of Gdansk, performed based on the H - N model, are discussed. Maps of the fields of mass transport vectors, sea level, horizontal current vectors and vertical velocity at selected depths are presented. The picture of spatial structure of circulation in the Gulf of Gdansk is completed by depths profiles of current velocity components in chosen regions. Values of the bottom stress are estimated using the calculated mass transport components. The calculations have been carried out for the case of constant - velocity wind blowing from the main directions and for homogeneous basin of the Gulf of Gdansk. The H - N model developed for the Baltic Sea was adopted.