

Estimation of parameters of the horizontal turbulent exchange of momentum in Gulf of Gdansk

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Abstract

Basic characteristics of the horizontal turbulent exchange in the Gulf of Gdansk area have been discussed based on current measurements made at mooring stations located mainly in the near-shore zone. The work was aimed mainly at evaluation of the horizontal eddy - viscosity coefficients and the directions of the extreme turbulent horizontal exchange. The correlation between the shapes of the horizontal exchange ellipses and the directions of the mean currents as well as the shore - line contour was shown.