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Water mass exchange between the Gulf of Gdańsk and the Baltic Sea

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Abstract

On the basis of the results of H - N models of steady wind - driven circulation in the Baltic Sea a general picture of the water movements in the Gulf of Gdansk is discussed. Depth profiles of the current speed components at the open boundary (Rozewie - Taran) complete the spatial scheme of the water mass exchange between the Gulf of Gdansk and the Baltic Sea. The results presented in the paper were calculated for the case of the homogeneous sea water and for the homogeneous fields of winds blowing from the directions, W, N, NW, and NE.