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Steady wind - driven and river inflow circulation in the Gulf of Gdańsk

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Abstract

The paper presents the results of calculations of wind - driven and river inflow circulation in the Gulf of Gdańsk, based on the H - N model. The fields of mass transport, sea level and surface currents for both external forces i.e. wind and river inflow are discussed. In the case of wind - driven currents computations were performed for west wind of constant velocity equal to 10 m/s. The effect river inflow on wind - driven circulations and development of hydrological conditions in the Gulf of Gdańsk was estimated.