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**Characteristics of hydrodynamic states and processes induced in the Baltic Sea by uniform wind field**

STUDIA I MATERIAŁY OCEANOLOGICZNE KBM PAN, 1983, No. 40, 129 - 202  
(in Polish)

**Abstract**

The paper presents the results of mathematical modelling of flows and waving of free sea surface in the homogeneous, with respect to density Baltic Sea, both induced by the uniform wind field. The results are presented in the form of fields: mass transport vectors, surface currents vectors, isolines of ordinates of sea level, isolines of average heights and periods of wind waving in the deep water region, as well as in the form of nomograms of average heights and waving periods in the shallow water transformation zone.