

Numerical Modeling of Storm Swells in Harbor by Boussinesq Equations Model

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Abstract : The purpose of work is to study the phenomenon of agitation of storm waves at basin caused by different directions of waves relative to the current provision through numerical model based on the equation in shallow water using Boussinesq model MIKE 21 BW. According to the diminishing effect of penetration of a wave optimal solution will be available to be reproduced in reduced model. Another alternative arrangement will be proposed to reduce the agitation and the effects of the swell reflection caused by the penetration of waves in the harbor.

Keywords : agitation, Boussinesq equations, combination, harbor

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