



Long wave interaction with the sea wall in a basin of variable depth

Ira Didenkulova (1) and Efim Pelinovsky (2)

(1) Institute of Cybernetics, Laboratory of Wave Engineering, Tallinn, Estonia (ira@cs.ioc.ee, +372 6204151), (2) Institute of Applied Physics, Nizhny Novgorod, Russia

The runup of random waves on a sea wall in a basin of variable depth is studied in the shallow water theory framework. The transformation of distribution functions of the wave field at the wall is discussed. Special attention is paid to the formation of waves with extreme heights.