

A Numerical Simulation of the 1993 East Sea Tsunami and Estimations of Potential Tsunamis

Byung Ho Choi and Sung Jin Hong
Sungkyunkwan University

Efim Pelinovsky and Igor Ryabov
Institute of Applied Physics

Abstract

The tsunami in the East Sea occurred after powerful earthquake July 12, 1993 is analyzed. Data of the measured runup heights along the eastern coast of the East Sea are processed. It is shown the *log-normal* function is best fit for the distribution of the wave heights. Numerical simulations of tsunami propagation in the East Sea is performed and computed, results are compared with observed data. Prognostic characteristics of potential tsunamis in the East Sea are discussed. Zones of potential danger tsunami sources are selected.