



Seismic forerunner of tsunami waves

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Problem of tsunami wave forecast has not yet been solved and remains actual nowadays. In order to solve it the problem of Oceanic bottom elastic deformations caused by liquid wave motion is considered.

The results of the research show that the tsunami waves produce the Ocean elastic oscillations of the Earth's crust of two types. The first type of perturbations is bottom's elastic sagging appeared under the hydrostatic pressure. Such deformations make up forced waves, which are moved along with tsunami waves. Bottom inclinations caused by such influences can be registered beforehand.

The second type of perturbations caused by tsunami is free elastic waves propagating much faster than tsunami waves. Such waves are of random character and have a wide range. They have some additional useful information about the parameters of tsunami wave propagation and can be considered as their forerunners.

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