



BOTTOM PRESSURE CAUSED BY THE PASSAGE OF A SOLITARY WAVE IN THE COASTAL ZONE

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We study the important problem of the registration of the sea waves with the help of pressure recorders installed on the bottom. Dissenting attention is paid to the possibility of using low dispersion highly nonlinear models for the calculation of a bottom pressure through fluctuations in sea surface, caused by the passage of a solitary wave. In the framework of weakly-dispersive fully-nonlinear theory of long waves (so-called Zheleznyak–Pelinovsky system) obtained a simplified formula for the variations of pressure at any depth, associated with the passage of progressive waves on the surface.