



Bottom pressure distribution under a soliton wave reflecting on a vertical wall

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The bottom pressure distribution under solitonic waves, travelling or fully reflected at a wall is analyzed here. Results given by two kind of numerical models are compared. One of the models is based on the Green-Naghdi equations, while the other one is based on the fully nonlinear potential equations. The two models differ through the way dispersion is taken into account. This approach allows to emphasize the influence of dispersion, in the cases of travelling or fully reflected waves.