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# Internal wave breather propagation under the influence of the Earth rotation

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The internal wave breather propagation under the influence of the Earth rotation is studied in the frames of the asymptotic model based on the Gardner equation as well as the fully nonlinear Euler equations. It is obtained that the amplitude and shape of short breathers depend on the Earth rotation very weakly but the wide breathers change the amplitude and shape sufficiently. This effect is studied in the model situation adapted to the Baltic Sea hydrological conditions. The rate of the breather amplitude damping upon the even bottom is shown.