

On the "projection" structure of the Green-Naghdi equations

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Many reduced models of the water wave equations, in particular the Green-Naghdi equations, can be presented as a "projection" of the shallow water equations onto a set of admissible functions. We will see why we use quotation marks for this property, and how to use it to its advantage for many numerical and modeling problems (entropic stability, boundary conditions, balanced, HPC, coupling, dispersion relation).

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