





## 2D modelisation of non-hydrostatic internal waves on idealised embankment

France Floc'h<sup>1</sup>, Annick Pichon<sup>2</sup>

<sup>1</sup> Laboratoire Domaines Océaniques UMR 6538, IUEM, France

<sup>2</sup> SHOM, France

**Study aim :** In this study, we test the possibility of integrated non-hydrostatics terms under weakly nonlinear and nonhydrostatic approximation in the isopycnic coordinate ocean model HYCOM in order to model the desintegration of internal waves into solitons on idealised embankment. Non-hydrostatic (NH) terms derived with this assumption are directly added to the hydrostatic equations.

