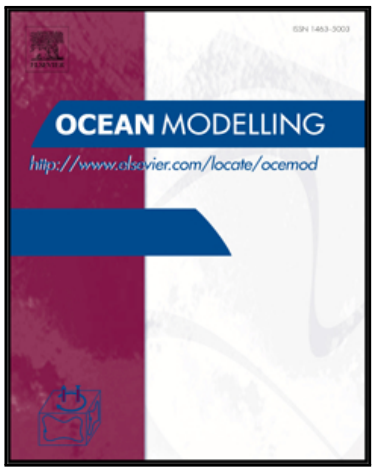

A numerical scheme for coastal morphodynamic modelling on unstructured grids

Thomas Guerin, Xavier Bertin, Guillaume Dodet

PII: S1463-5003(16)30023-3
DOI: 10.1016/j.ocemod.2016.04.009
Reference: OCEMOD 1097

To appear in: *Ocean Modelling*

Received date: 18 December 2014
Revised date: 12 February 2016
Accepted date: 28 April 2016

Please cite this article as: Thomas Guerin, Xavier Bertin, Guillaume Dodet, A numerical scheme for coastal morphodynamic modelling on unstructured grids, *Ocean Modelling* (2016), doi: 10.1016/j.ocemod.2016.04.009

Highlights

- Additional diffusion method appears inappropriate for morphodynamic modelling
- Our method provides improved accuracy and convergence
- Realistic development of coastal bed features is obtained with our method
- Subsequent additional computation time is negligible for fully-coupled simulations