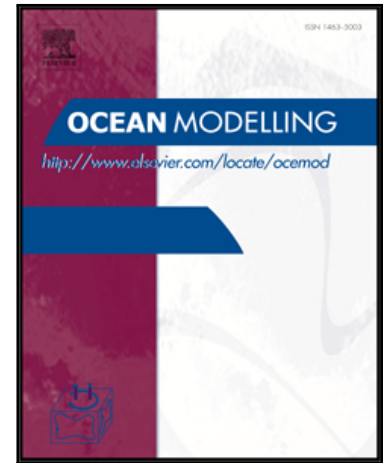


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Modelling the Mass Exchange Dynamics of Oceanic Surface and Subsurface Oil

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1 **Highlights**

- 2 • We propose a model for buoyant dynamics of surface and subsurface
3 oil.
- 4 • The model accounts for mass exchanges in an Eulerian oil-fate model.
- 5 • The Eulerian model is specialized to shallow water conditions.
- 6 • It takes into account microscale dynamics, buoyancy and turbulence.
- 7 • Microdynamics are taken into account but not resolved.

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