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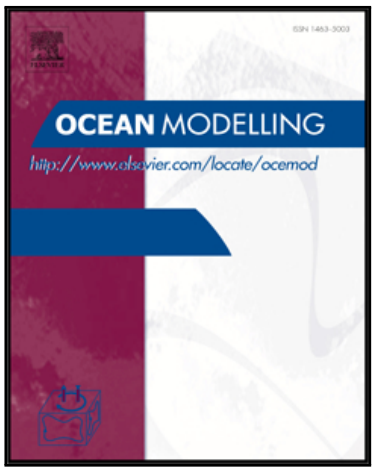

Analysis of the flow in gravity currents propagating up a slope

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Highlights

- Large Eddy Simulations of gravity currents flowing up a slope are presented
- The presence of a backward flow in the near-wall region is detected and analyzed
- The potential sediment transport is found to be dependent on the bed upslope
- Elongated turbulent structures are observed to develop in the near-wall region
- The turbulent kinetic energy decreases as the upslope increases

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