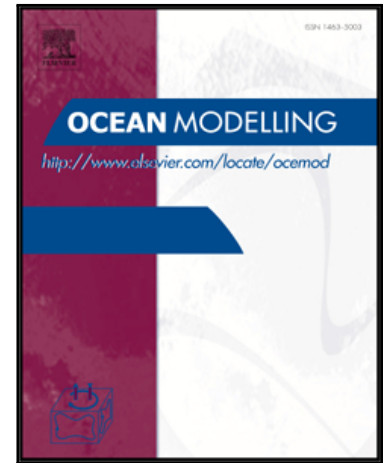


## Accepted Manuscript

Nonhydrostatic simulation of hyperpycnal river plumes on sloping continental shelves: flow structures and nonhydrostatic effect

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**Highlights**

- A three-dimensional, non-hydrostatic model is used to study hyperpycnal plumes on idealized slopes.
- The nonhydrostatic effect is important in the plunging region, where the vertical momentum is significant.
- The nonhydrostatic effect can be seen only when the resolution is sufficiently fine.
- A depth-integrated momentum budget analysis is conducted to show the bulk effects of the slope and three-dimensionality.

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