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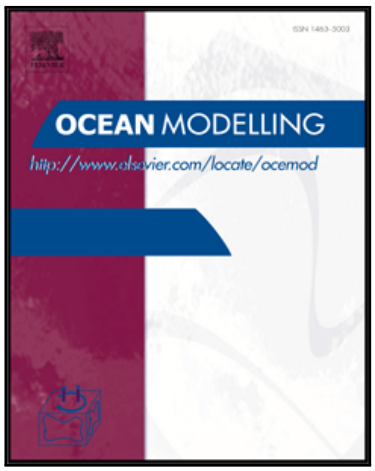

A Coastal Ocean Model with Subgrid Approximation

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Highlights

- A semi-implicit coastal ocean model balances stability, accuracy, and efficiency.
- Volume averaging is used to approximate subgrid objects of various kinds.
- The methods are applied to tidal power generation.
- Thrust and power coefficients convert from free stream to volume average velocity.
- Three conversion methods are an iterative approach and two analytical mappings.

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