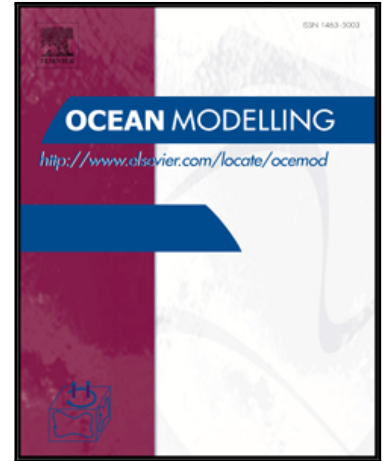


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A Box Model for Representing Estuarine Physical Processes in Earth System Models

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Highlights

- An analytic Estuary Box Model (EBM) is proposed to better represent the riverine freshwater flux in climate models.
- The EBM is parameterized by physical based mixing processes and implemented globally into the Community Earth System Model.
- The estuarine exchange flows have impacts on the global salinity field in both coastal and open oceans.

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