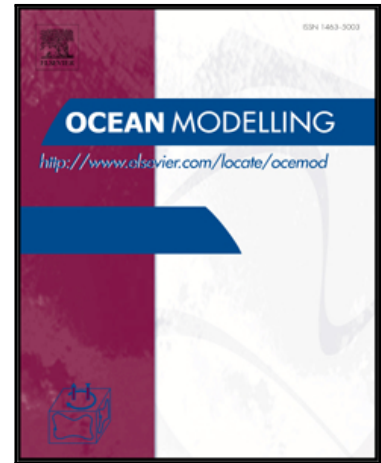


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Numerical study of sediment dynamics during Hurricane Gustav

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Highlights

- Coupled ocean-wave-atmosphere and sediment transport model for hurricane Gustav.
- Ocean stratification broke down on inner shelf and recovered after one week.
- Cohesive sediment algorithm ideal representation of fine deltaic sediment dynamics
- Post-hurricane deposition up to 40 times that during normal ocean conditions.

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