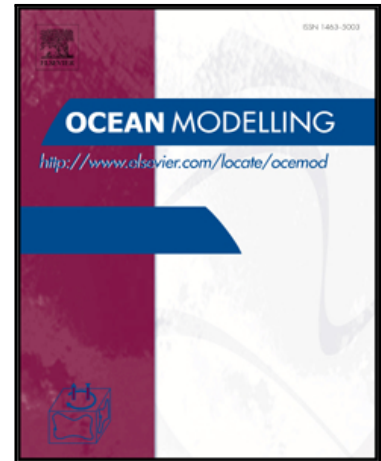


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The intertidal zones of the South Atlantic Bight and their local and regional influence on astronomical tides

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**Highlights**

- We present an unprecedented tidal model definition of the South Atlantic Bight
- Model skill at 142 gaging stations is  $R^2 = 92\%$ , 10% error and  $0.01 \text{ m s}^{-1}$  error
- Tidal datums are computed comprehensively for the estuarine and intertidal zones
- The inshore features of the coastline enhance the resonance of M2 tidal circulation
- The intertidal zones increase the estuarine storage capacity and energy dissipation

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