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Coastal morphodynamical modelling in nonlinear shallow water framework using a coordinate transformation method

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Highlights

- The NSWEs coupled model is developed to solve both hydro- and morpho-dynamic.
- The shoreline moving boundary is treated by Coordinate Transformation Method.
- Absorbing-generating seaward boundary is developed for the transformed coordinate.
- The model is verified against analytical and numerical results with good agreement.
- Coordinate Transformation Method is possible for simulate long-term morphodynamic.

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