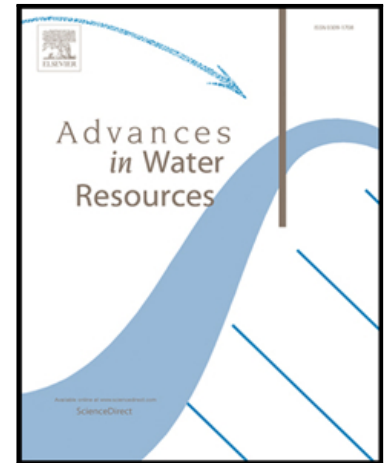


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Modeling Shallow Water Flows on General Terrains

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**Highlights**

- A new model for Shallow Water flow in general terrains is proposed.
- The model intrinsically contains the bottom geometry information.
- A centered Godunov scheme based on the FORCE flux evaluation discretizes the model.
- Numerical results on synthetic cases show that the effects of bottom curvatures on the simulation results are non negligible even under the SW assumptions.

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