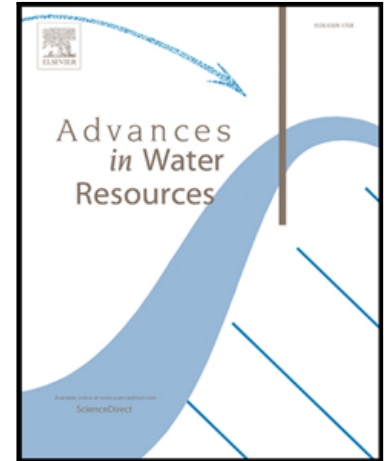


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On the Assimilation of Altimetric Data in 1D Saint-Venant River Flow Models

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HIGHLIGHTS

- The identifiability map: an original and synthetic reading of all the available information which are the data, the wave propagation and the Manning-Strickler's law residual (misfit to the equilibrium).
- An investigation of the inference capabilities from relatively sparse and large scale altimetry data in a relatively complete dynamics flow model (the Saint-Venant equations).
- An analysis of the inferred discharge in terms of frequencies.

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