

Interactive comment on “Hydrological parameter estimation for ungauged basin based on satellite altimeter data and discharge modeling. A simulation for the Caqueta River (Amazonian Basin, Colombia)” by J. G. Leon et al.

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Review of the paper:

Hydrological parameter estimation for ungauged basin based on satellite altimeter data and discharge modeling: A simulation for the Caqueta River (Amazonian Basin, Columbia)

By: Leon et al.

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Interactive Discussion

Discussion Paper

This paper is a follow-up of previous work by the authors (currently in press in J. Hydrology) which explores the use of altimetry data in conjunction with minimum in-situ gauge data to derive stage-discharge relationships and also slope profiles of channel bedforms. The methodology has been developed and tested in previous publications but this paper presents another case study in the Amazonian River in Columbia.

The paper is OK overall and the developed methodology is useful for practical applications. I have marked several questions and/or comments directly on the manuscript which I attach for the authors' consideration. One issue that has to be resolved is what really is the new contribution of this paper in view of previous publication by the authors. My understanding is that the methodology and its validation is currently in press in the Journal of Hydrology and nothing methodologically new is added here. The main objective of the present paper as mentioned by the authors is "to review the usefulness of altimetric data in ungauged or very poorly monitored basins." Since the paper that presented the original methodology has just appeared, one wonders what is the scope of such a "review." I would like the authors to clearly address this issue. The other issues that I have marked on the manuscript need also to be addressed and revisions to be made accordingly. Please refer to the comment number in your reply.

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