

## ***Interactive comment on “Using modelled discharge to develop satellite-based river gauging: a case study for the Amazon Basin” by Jiawei Hou et al.***

### **Anonymous Referee #4**

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In my opinion, this research topic is very important, and the authors have made great efforts in improving the technique of discharge estimation by combining the outputs from model and satellite products. However, the presentation and organization of the paper is very weak (although good grammar), make the readers very difficult to catch the key points and major conclusions. When you write a paper, you should consider the major conclusion/outputs, and the materials/work that can support the conclusion, making your "take-home-message" very clear;

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while not presenting all the subtle details in the manuscript. In addition, this paper only gives 5 figures, I would like to suggest adding quite a few tables to better summarize the contents (including your method, datasets, evaluation procedure, and so on).

Major comments: 1) suggest rewriting the abstract, to make it more clear by only summarizing the major results and key conclusions. Your methodology should be described with better clarity. 2) suggest removing much details in experiment setting, or use tables to list different methods/scenarios, and your calibration/validation periods.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-261>, 2018.

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