

## ***Interactive comment on “GLOFRIM v1.0 – A globally applicable computational framework for integrated hydrological-hydrodynamic modelling” by Jannis M. Hoch et al.***

### **Anonymous Referee #1**

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This manuscript introduces GLOFRIM, a framework for coupling hydrological and hydrodynamic models. The authors test this framework using the PCR-GLOBWB model and two hydrodynamic models. Overall, I found this manuscript very well written and concise and feel it could make a significant contribution to its field. However, I do have some minor comments that I would like addressed:

Page 2, Line 5: 'Sound inundation estimates'. Could the authors use a less colloquial term. Page 4, Line 36: Please provide the spatial resolution of the CRU data. Section 2: A schematic of the models used would be beneficial to the reader. Page 7, Line 37: Provide reference for the SRTM data. Page 11, Line 7: Did you take into account

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uncertainties in the discharge at Obidos? Page 11, Lines 14-20: Why are the results of the sensitivity analysis not included? The results are not surprising but you need to provide evidence. Page 11, Line 25-26: What are the different gridding approaches applied? I'm not sure if this is stated elsewhere in the manuscript.

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Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2017-140>, 2017.

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