

Interactive comment on “Modelling Hydrological Ecosystem Services – A state of the art model comparison” by Anna Lüke and Jochen Hack

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The manuscript is relatively well written, with nice graphical illustration of model outputs, but I was not able to extract any scientific insights from the manuscript. The manuscript reads a bit like a user manual for different models, not a scientific analysis. It does not contain any robust reality checks of the model outputs or insightful discussion of the scientific principles underlying the different models. Therefore, I would suggest to publish it as a technical report, but not a scientific paper. For a scientific paper, I was expecting to see clear science questions asked and answered, supported by evidence. For example on P5L17, you state: "RIOS is based on a science-based approach operating independently of scale or location and, therefore, it can be used at continental, country, or regional scale." This is a very interesting statement and I would

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like to find out about the science in this approach, what it is based on, how it can operate independently of scale, what insights it produces and what are the uncertainties involved. Same for the other models.

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