

Interactive comment on “Scaling down hyporheic exchange flows: from catchments to reaches” by Chiara Magliozzi et al.

Anonymous Referee #1

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This manuscript presents a review of the factors influencing hyporheic exchange flows with the objective of conceptualizing interacting factors at catchment, valley and reach scales that control spatial and temporal variations in hyporheic exchange flows.

The manuscript is very long and despite the very thorough reference list, it does not provide any new findings or any new conceptual view that could be useful either to revisit the current knowledge on hyporheic flows or to test new hypothesis. The manuscript consists on a long list of potential driving factors of hyporheic exchange flows with no clear attempt to structure them. Most of the figure are directly derived or marginally adapted from already published work not properly cited. It is difficult to understand what is the purpose of the tables' content.

In summary, there is a lot of effort to gather references but no new added-value in

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terms of methodological or conceptual approach.

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