

Interactive comment on “Hydroclimatic control on suspended sediment dynamics of a regulated Alpine catchment: a conceptual approach” by Anna Costa et al.

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Received and published: 23 May 2018

Reply to Referee #2 - Tammo Steenhuis

We would like to thank Referee #2 for his previous review which motivated us to improve both the analysis and the manuscript. We thank Referee #2 for raising the issue of equifinality. We are aware of this problem and we agree with the reviewer that equifinality is a potential issue in any modeling based study. We will clarify in the final version of the manuscript that we addressed this issue by repeating several times both the input variable selection algorithm and the model parameter optimization and, although the equifinality problem may be not fully overcome, the final parameter set is reason-

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able on the basis of the physical interpretations of the results which are included in the discussion.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-5>, 2018.