

# ***Interactive comment on “Socio-hydrologic data assimilation: Analyzing human-flood interactions by model-data integration” by Yohei Sawada and Risa Hanazaki***

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We thank the two referees for their constructing comments. Since both of anonymous referees suggested to strengthen the paper by applying our SIRPF to a real-world case, we report our results of the real-world experiment in the city of Rome, Italy in this authors' comment. Please find the attached supplement file. We intend to quickly inform that our findings in the idealized experiment can be applied to the real-world case study before the discussion forum will be closed. We noticed that the two referees provided many other useful comments in addition to the suggestion of the real-world experiment. Those comments will be addressed as our final response after

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the discussion forum will be closed.

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2020-19/hess-2020-19-AC1-supplement.pdf>

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