

Hydrol. Earth Syst. Sci. Discuss., referee comment RC1  
<https://doi.org/10.5194/hess-2021-295-RC1>, 2021  
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## **Comment on hess-2021-295**

Anonymous Referee #1

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Referee comment on "Covariance-based selection of parameters for particle filter data assimilation in soil hydrology" by Alaa Jamal and Raphael Linker, Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-295-RC1>, 2021

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A one-dimensional exercise of data assimilation with homogeneous parameters and no benchmarking is of no interest to the readers.

Please, reconsider submitting a paper with higher complexity in the parameter description (two- or three-dimensional, heterogeneous parameters...) and benchmark it against other more commonly used approaches describing why the new method proposed should be adopted.