

## ***Interactive comment on “3D Multiple-point Statistics Simulations of the Roussillon Continental Pliocene Aquifer using DeeSse” by Valentin Dall’Alba et al.***

### **Anonymous Referee #1**

Received and published: 24 May 2020

This manuscript provides an improvement of the MPS implementation through the direct sampling algorithm, in order to design a method for the reconstruction of aquifer heterogeneity at scale lengths of tens of kilometers. Overall, the work is interesting and deserves publication after a moderate to major revision. Specific and technical comments are given in the report uploaded as supplementary material.

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2020-96/hess-2020-96-RC1-supplement.pdf>

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2020-96>, 2020.

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