

Challenges in conditioning a stochastic geological model of a heterogeneous glacial aquifer to a comprehensive soft dataset

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Author comment to the Editor: Prof. Mauro Giudici.

We would like to thank the editor Prof. Mauro Giudici again for handling the revision process of our manuscript. We are glad that our manuscript got now accepted under the condition of a thorough technical check. The references have been double-checked and no errors additional errors were found.

Comments to the Author:

The Authors answers to the Reviewers' comments on the revised version are sufficiently satisfactory. However, the paper needs a further, accurate technical check. I found some mistakes about the references, as detailed below.

(1) Details of Refsgaard et al. (2014) should be provided.

Details have been added:

“The results of the present study are intended for application in a hydrological modeling context (Refsgaard et al., 2014), where the geological uncertainty, represented by a set of plausible realizations of the subsurface, is propagated through the model. The varying flowpaths between the realizations will affect solute transport and thus nitrate reduction and can be utilized to assess the scale of potential predictive capability of the hydrogeological flow model.”

(2) Papers cited and missing in the list of references

Christiansen and Christensen (2003) – Reference added.

Giudici et al. (2011) – Reference added.

Refsgaard and Henriksen (2004) – Reference added.

(3) Carle (1996) is not cited in the text – Reference deleted from the reference list.

(4) In the text He et al. (2013a) and He et al. (2013b) are not distinguished. – The references have been updated to He et al. (2013) and He et al. (2014) and corrections were done accordingly in both, the text and the reference list.