

Page 9, line 25. Replace x_2-x_1 with $|x_j-x_i|$. Am I right?

Page 12, lines 8-9. The sentence “As before... double prime” could be moved where this notation is used for the first time.

Page 16, line 25. Please rephrase “show in large the right pattern”.

Page 17, line 27ff. This is true for OLE, but it is also apparent that the improvement for TE is much more limited. In other words, the head predictions at the measurement points are strongly improved, whereas the improvement of the head prediction over the whole aquifer is questionable. Is this right? Can you comment on this, please?

Page 21, lines 7 to 11. Modify “the groundwater-flow equation is non-identifiable when both conductivity and recharge are considered parameters that can vary unrestricted in space and time: Even” possibly as “conductivity and recharge are not simultaneously identifiable, if considered as parameters that can vary unrestricted in space and time: even”. For your convenience, see this paper of mine <http://iopscience.iop.org/0266-5611/7/2/007> for rigorous definitions of identifiability; please, do not cite it in your paper, because HESS editors are requested not to suggest their papers to the authors :-/

Tables 3 & 4.

The values of NRMSE for OLE are quite different from those computed with the runs for the first version of the paper. Therefore it seems that these values are very uncertain. The remark by the authors in their response (“the noise terms are slightly different, leading to different OLE values in the revised manuscript compared to the previous submissions”) does not seem sufficient to explain this behavior and I ask them to include some comments in the text or in the response.

I think that the discussion of the results included in these tables could still be improved in the text.

I am curious to see a visual comparison between the reconstructed (ensemble average) head fields at different times during the experiment (e.g., after 40, 140, 240 and 340 days, based on the data of Table 1) and the reference head fields, in order to visualize the errors on the predicted heads.