Hydrology and Earth System Sciences Discussions

Hydrol. Earth Syst. Sci. Discuss., author comment AC1
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Reply on RC1

Giovanna Dragonetti et al.

Author comment on "In situ estimation of soil hydraulic and hydrodispersive properties by inversion of electromagnetic induction measurements and soil hydrological modeling" by Giovanna Dragonetti et al., Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2022-12-AC1, 2022

Dear Reviewer:

We would like to thank you for completing the review and for providing the comments. In this first document, we aim to answer the most important comments raised in the review about the issue of using an uncoupled rather than coupled inversion approach, and - related to this point - the need for EMI sensor calibration using ERT survey prior to the quantitative EM-based investigation. A more detailed discussion about the several punctual issues discussed by Reviewer will be given later in a separate answer.

Sincerely,

Mohammad Farzamian on behalf of all authors