

Interactive comment on “Small scale characterization of vine plant root water uptake via 3D electrical resistivity tomography and Mise-à-la-Masse method” by Benjamin Mary et al.

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Dear Authors,

Your manuscript HESS-2018-238 received 2 detailed referee reports. Both referees appreciated the novelty of the research but regretted that some methodological details are lacking.

The second referee identified also a set of concerns related to the plant physiological and biological aspects of the experiment. He/she also strongly suggested having an independent observation of root mass distribution to validate the indirect assessment

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as made with the MALM. I'm afraid that this last concern cannot be considered since this would mean a completely new experimental set-up.

Given the novelty of the research, I suggest incorporating the many detailed remarks in a major revision of the paper. I also suggest introducing a more detailed description of the methodological aspects and a discussion on how the validation can be strengthened in the future by independent root mass distribution observations.

I look forward to receiving a major revised version of this interesting manuscript.

Sincerely yours,

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-238>, 2018.

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