Reply on RC1
Laurent Lassabatere et al.

Author comment on "A scaling procedure for straightforward computation of sorptivity" by Laurent Lassabatere et al., Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2021-150-AC1, 2021

Dear Reviewer,

The authors warmly thank you for the time dedicated to reviewing our paper and his positive feedback. The authors will check for typos carefully. They will add a few sentences in the introduction about the alternative flux concentration functions available for the computation of sorptivity. In this paper, the authors considered Parlange’s equation for the flux concentration function. However, other flux concentration functions may be used in the integral that defines the sorptivity, like those proposed by Crank (1979), Philip and Knight (1974), Parlange (1975), Brutsaert (1976).

The authors intend to deal with the sensitivity of the computation of sorptivity with regard to the choice of the flux concentration function. The authors will also discuss the proper selection of these functions with regard to the type of soil. All those topics will be the subject of another paper.

Best regards,

Laurent Lassabatere on behalf of the authors.


