Dear reviewer,

Thank you for reviewing the paper and for your constructive comments.

Your suggestion is highly relevant, and machine learning is indeed a promising way to integrate geophysical data in hydrological studies. So far we are only discussing machine learning approaches for prediction purposes and spatial heterogeneity representation. There are some recent papers that investigated the use of machine learning for petrophysical relationship (e.g. Gottschalk and Knight, 2022) for airborne data, which opens the possibility to inform the spatial variability of aquifer at the catchment (or even beyond) scale. We will seek to also address such innovative approaches and expand on the use of machine learning in the revised manuscript.

Best wishes,

For the authors

Thomas Hermans