I enjoyed this paper. The authors made use of an extensive set of water content profile time series in two differing climates within Austria. They used an accepted Bayesian inference algorithm to fit HYDRUS1D to the observations. They found that recharge is highly correlated with precipitation in the shorter term and aridity in the longer term. These results are well aligned with expectations from previous publications. My only complaint is that the method is based on a Bayesian approach, but there is almost no discussion of the resulting uncertainty of the inferences, how these depend on site conditions, how these might affect larger interpretations, and how the data did or did not constrain these uncertainties. The results and conclusions are primarily based on deterministic findings that seem to rely on the maximum likelihood parameter values. (Although this isn't discussed in detail.) I am actually fine with that - as stated above, I think that this makes a useful contribution. But, in the end, I was left wondering why the Bayesian approach was used rather than another parameter estimation tool. I would like to see the authors include some discussion of the special insights that resulted from the Bayesian analysis.

Best

Ty Ferre