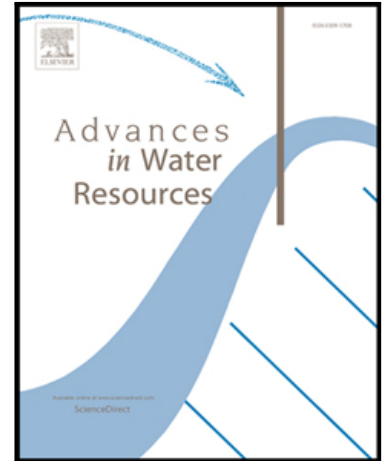


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Soil moisture prediction with the ensemble Kalman filter: handling uncertainty of soil hydraulic parameters

N. Brandhorst, D. Erdal, I. Neuweiler

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**Highlights**

- Soil hydraulic parameters are often uncertain and unidentifiable
- Different ways of handling parameter uncertainty in the EnKF are compared regarding soil moisture predictions
- Performing joint updates of parameters and states is the best method to account for parameter uncertainty

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