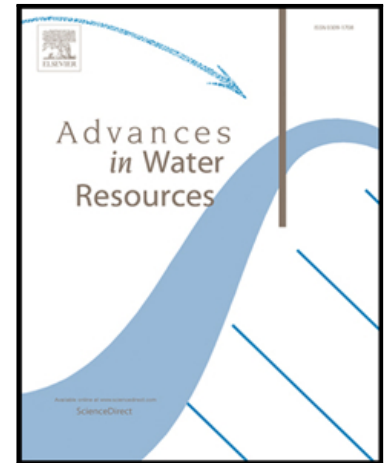


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Multi-Parametric Variational Data Assimilation for Hydrological Forecasting

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## 1 **Highlights**

- 2 • A multi-parametric data assimilation using MHE variational approach is proposed
- 3 • Parametric distances are maximized using a novel parametric reduction technique
- 4 • Several parameter sets are combined to produce probabilistic initialization
- 5 • Multi-parametric assimilation is assessed using lead time performance metrics
- 6 • Assimilation of streamflow and H-SAF remotely sensed soil moisture and snow data

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