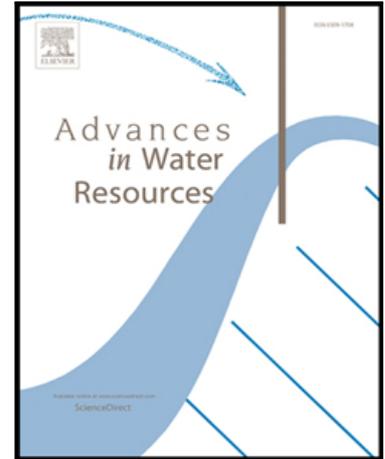


## Accepted Manuscript

Stochastic, Goal-oriented Rapid Impact Modeling of Uncertainty and Environmental Impacts in Poorly-Sampled Sites Using Ex-Situ Priors

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## Highlights

- Stochastic modeling intends to accurately model uncertainty, not to reduce uncertainty
- Stochastic analysis does not mandate minimum data requirements
- A systematic approach for constructing priors from ex-situ data is presented
- Utilization of scaling relationships allows modelers to avoid costly parametrization schemes
- Costly estimates of parameters can be bypassed by focusing on impacts instead, and using the total probability theorem, and without loss of information

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