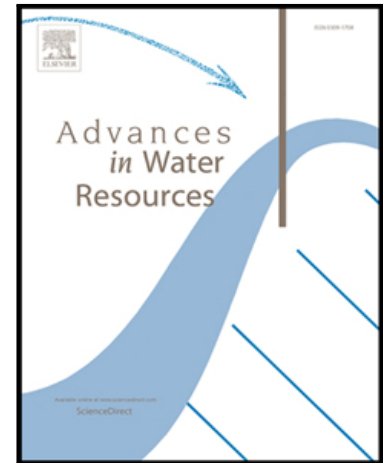


Accepted Manuscript

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

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PII: S0309-1708(17)30148-3
DOI: [10.1016/j.advwatres.2017.11.008](https://doi.org/10.1016/j.advwatres.2017.11.008)
Reference: ADWR 3013



To appear in: *Advances in Water Resources*

Received date: 16 February 2017
Revised date: 4 November 2017
Accepted date: 6 November 2017

Please cite this article as: Xiaojun Li , Yandong Li , Ching-Fu Chang , Benjamin Tan , Ziyang Chen , Jon Sege , Changhong Wang , Yoram Rubin , Stochastic, Goal-oriented Rapid Impact Modeling of Uncertainty and Environmental Impacts in Poorly-Sampled Sites Using Ex-Situ Priors, *Advances in Water Resources* (2017), doi: [10.1016/j.advwatres.2017.11.008](https://doi.org/10.1016/j.advwatres.2017.11.008)

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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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