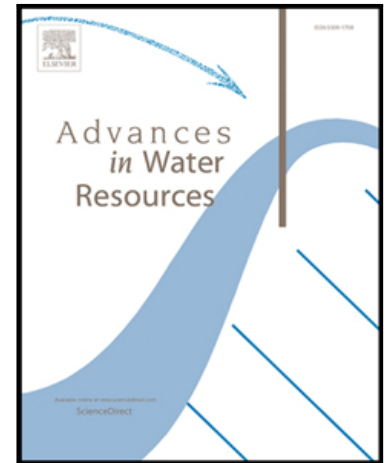


## Accepted Manuscript

Characterizing the impact of model error in hydrologic time series recovery inverse problems

Scott K. Hansen, Jiachuan He, Velimir V. Vesselinov

PII: S0309-1708(17)30171-9  
DOI: [10.1016/j.advwatres.2017.09.030](https://doi.org/10.1016/j.advwatres.2017.09.030)  
Reference: ADWR 2994



To appear in: *Advances in Water Resources*

Received date: 24 February 2017  
Revised date: 22 September 2017  
Accepted date: 23 September 2017

Please cite this article as: Scott K. Hansen, Jiachuan He, Velimir V. Vesselinov, Characterizing the impact of model error in hydrologic time series recovery inverse problems, *Advances in Water Resources* (2017), doi: [10.1016/j.advwatres.2017.09.030](https://doi.org/10.1016/j.advwatres.2017.09.030)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- A hydrologically important class of inverse problems is analyzed mathematically.
- A new way of symbolically representing model error via Fourier series is presented.
- Error bounds derived using only most significant terms in model series expansion.
- Extra data collection locations do not reduce expected model error when inverting.
- A case study showing problem severity, transfer function ID heuristic is shown.

Download English Version:

<https://daneshyari.com/en/article/8883416>

Download Persian Version:

<https://daneshyari.com/article/8883416>

[Daneshyari.com](https://daneshyari.com)