

Opinions

- W08301** *Hoshin V. Gupta, Martyn P. Clark, Jasper A. Vrugt, Gab Abramowitz, and Ming Ye*  
Towards a comprehensive assessment of model structural adequacy (doi 10.1029/2011WR011044)

Regular Articles

- W08501** *G. Panthou, T. Vischel, T. Lebel, J. Blanchet, G. Quantin, and A. Ali*  
Extreme rainfall in West Africa: A regional modeling (doi 10.1029/2012WR012052)
- W08502** *J. M. Szemis, H. R. Maier, and G. C. Dandy*  
A framework for using ant colony optimization to schedule environmental flow management alternatives for rivers, wetlands, and floodplains (doi 10.1029/2011WR011276)
- W08503** *W. Buytaert and B. De Bièvre*  
Water for cities: The impact of climate change and demographic growth in the tropical Andes (doi 10.1029/2011WR011755)
- W08504** *Ben L. O'Connor, Judson W. Harvey, and Lauren E. McPhillips*  
Thresholds of flow-induced bed disturbances and their effects on stream metabolism in an agricultural river (doi 10.1029/2011WR011488)
- W08505** *C. Schmelzbach, J. Tronicke, and P. Dietrich*  
High-resolution water content estimation from surface-based ground-penetrating radar reflection data by impedance inversion (doi 10.1029/2012WR011955)
- W08506** *Steve W. Lyon, Marcus Nathanson, André Spans, Thomas Grabs, Hjalmar Laudon, Johan Temnerud, Kevin H. Bishop, and Jan Seibert*  
Specific discharge variability in a boreal landscape (doi 10.1029/2011WR011073)
- W08507** *M. W. Farthing, M. A. Seyedabbasi, P. T. Imhoff, and C. T. Miller*  
Influence of porous media heterogeneity on nonaqueous phase liquid dissolution fingering and upscaled mass transfer (doi 10.1029/2011WR011389)
- W08508** *Matteo Bonalumi, Flavio S. Anselmetti, Alfred Wüest, and Martin Schmid*  
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- W08509** *Alejandro N. Flores, Rafael L. Bras, and Dara Entekhabi*  
Hydrologic data assimilation with a hillslope-scale-resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter (doi 10.1029/2011WR011500)
- W08510** *Mingliang Li, Dawen Yang, Jinsong Chen, and Susan S. Hubbard*  
Calibration of a distributed flood forecasting model with input uncertainty using a Bayesian framework (doi 10.1029/2010WR010062)
- W08511** *Marilena Pannone*  
On the exact analytical solution for the spatial moments of the cross-sectional average concentration in open channel flows (doi 10.1029/2011WR011665)
- W08512** *Michael G. Sanderson, Andrew J. Wiltshire, and Richard A. Betts*  
Projected changes in water availability in the United Kingdom (doi 10.1029/2012WR011881)
- W08513** *Behzad Ghanbarian-Alavijeh and Allen G. Hunt*

Comparison of the predictions of universal scaling of the saturation dependence of the air permeability with experiment (doi 10.1029/2011WR011758)

- W08514** *Felix Janssen, M. Bayani Cardenas, Audrey H. Sawyer, Thea Dammrich, Jana Krietsch, and Dirk de Beer*  
A comparative experimental and multiphysics computational fluid dynamics study of coupled surface–subsurface flow in bed forms (doi 10.1029/2012WR011982)
- W08515** *Trenton E. Franz, M. Zreda, T. P. A. Ferre, R. Rosolem, C. Zweck, S. Stillman, X. Zeng, and W. J. Shuttleworth*  
Measurement depth of the cosmic ray soil moisture probe affected by hydrogen from various sources (doi 10.1029/2012WR011871)
- W08516** *Daniele Veneziano and Chiara Lepore*  
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- W08517** *C. Vogt, G. Marquart, C. Kosack, A. Wolf, and C. Clauser*  
Estimating the permeability distribution and its uncertainty at the EGS demonstration reservoir Soultz-sous-Forêts using the ensemble Kalman filter (doi 10.1029/2011WR011673)
- W08518** *Shibo Wang and Andres F. Clarens*  
The effects of CO<sub>2</sub>-brine rheology on leakage processes in geologic carbon sequestration (doi 10.1029/2011WR011220)
- W08519** *Yarong Yang, Matthew Over, and Yoram Rubin*  
Strategic placement of localization devices (such as pilot points and anchors) in inverse modeling schemes (doi 10.1029/2012WR011864)
- W08520** *Q. G. Bingham, B. T. Neilson, C. M. U. Neale, and M. B. Cardenas*  
Application of high-resolution, remotely sensed data for transient storage modeling parameter estimation (doi 10.1029/2011WR011594)
- W08521** *S. M. Bateni and D. Entekhabi*  
Surface heat flux estimation with the ensemble Kalman smoother: Joint estimation of state and parameters (doi 10.1029/2011WR011542)
- W08522** *D. Raje and R. Krishnan*  
Bayesian parameter uncertainty modeling in a macroscale hydrologic model and its impact on Indian river basin hydrology under climate change (doi 10.1029/2011WR011123)
- W08523** *Rui Ma, Chunmiao Zheng, John M. Zachara, and Matthew Tonkin*  
Utility of bromide and heat tracers for aquifer characterization affected by highly transient flow conditions (doi 10.1029/2011WR011281)
- W08524** *Aditi S. Bhaskar, Judson W. Harvey, and Eric J. Henry*  
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- W08525** *Y. Tanino and Martin J. Blunt*  
Capillary trapping in sandstones and carbonates: Dependence on pore structure (doi 10.1029/2011WR011712)
- W08526** *Ganming Liu and Franklin W. Schwartz*  
Climate-driven variability in lake and wetland distribution across the Prairie Pothole Region: From modern observations to long-term reconstructions with space-for-time substitution (doi 10.1029/2011WR011539)
- W08527** *Antonio Coppola, Horst H. Gerke, Alessandro Comegna, Angelo Basile, and Vincenzo Comegna*  
Dual-permeability model for flow in shrinking soil with dominant horizontal deformation (doi 10.1029/2011WR011376)

**W08528** *Zhiqun Wen, Xu Liang, and Shengtian Yang*

A new multiscale routing framework and its evaluation for land surface modeling applications  
(doi 10.1029/2011WR011337)

**W08529** *Susana Ferreira and Ramesh Ghimire*

Forest cover, socioeconomics, and reported flood frequency in developing countries (doi 10.1029/2011WR011701)

**W08530** *Leonardo Alfonso and Roland Price*

Coupling hydrodynamic models and value of information for designing stage monitoring networks  
(doi 10.1029/2012WR012040)

### Technical Notes

**W08601** *Ryan D. Stewart, Rolf Hut, David E. Rupp, Hoshin Gupta, and John S. Selker*

A resonating rainfall and evaporation recorder (doi 10.1029/2011WR011529)

### Commentaries

**W08801** *Allan D. Woodbury*

Comment on "Entropy theory for derivation of infiltration equations" by Vijay P. Singh  
(doi 10.1029/2012WR012157)

**W08802** *Vijay P. Singh*

Reply to comment by Allan D. Woodbury on "Entropy theory for derivation of infiltration equations"  
(doi 10.1029/2012WR012322)

### Corrections

**W08902** *Nobuhito Ohte, Ichiro Tayasu, Ayato Kohzu, Chikage Yoshimizu, Ken'ichi Osaka, Akiko Makabe, Keisuke Koba, Naohiro Yoshida, and Toshi Nagata*

Correction to "Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values" (doi 10.1029/2012WR012549)

**W08903** *Adam S. Ward, Michael Fitzgerald, Michael N. Gooseff, Thomas J. Voltz, Andrew M. Binley, and Kamini Singha*

Correction to "Hydrologic and geomorphic controls on hyporheic exchange during baseflow recession in a headwater mountain stream" (doi 10.1029/2012WR012663)

There is no **W08901** in this issue.

### Special Sections in Progress

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