

## Regular Articles

- W06501** *Xingyuan Chen, Haruko Murakami, Melanie S. Hahn, Glenn E. Hammond, Mark L. Rockhold, John M. Zachara, and Yoram Rubin*  
Three-dimensional Bayesian geostatistical aquifer characterization at the Hanford 300 Area using tracer test data (doi 10.1029/2011WR010675)
- W06502** *Adam J. Siade, Mario Putti, and William W.-G. Yeh*  
Reduced order parameter estimation using quasilinearization and quadratic programming (doi 10.1029/2011WR011471)
- W06503** *Dorte Seifert, Torben O. Sonnenborg, Jens Christian Refsgaard, Anker L. Højberg, and Lars Trolborg*  
Assessment of hydrological model predictive ability given multiple conceptual geological models (doi 10.1029/2011WR011149)
- W06504** *Arthur M. Greene, Molly Hellmuth, and Trevor Lumsden*  
Stochastic decadal climate simulations for the Berg and Breede Water Management Areas, Western Cape province, South Africa (doi 10.1029/2011WR011152)
- W06505** *Seokkoo Kang and Fotis Sotiropoulos*  
Assessing the predictive capabilities of isotropic, eddy viscosity Reynolds-averaged turbulence models in a natural-like meandering channel (doi 10.1029/2011WR011375)
- W06506** *Mehmet Evren Soylu, John D. Lenters, Erkan Istanbuluoglu, and Steven P. Loheide II*  
On evapotranspiration and shallow groundwater fluctuations: A Fourier-based improvement to the White method (doi 10.1029/2011WR010964)
- W06507** *Leticia Tarrab, Carlos M. García, Mariano I. Cantero, and Kevin Oberg*  
Role of turbulence fluctuations on uncertainties of acoustic Doppler current profiler discharge measurements (doi 10.1029/2011WR011185)
- W06508** *Carlos Ruiz Cánovas, Manuel Olias, Aguasanta Miguel Sarmiento, Jose Miguel Nieto, and Laura Galván*  
Pollutant transport processes in the Odiel River (SW Spain) during rain events (doi 10.1029/2011WR011041)
- W06509** *Wolfgang Nowak, Yoram Rubin, and Felipe P. J. de Barros*  
A hypothesis-driven approach to optimize field campaigns (doi 10.1029/2011WR011016)
- W06510** *Jan Magnusson, Tobias Jonas, and James W. Kirchner*  
Temperature dynamics of a proglacial stream: Identifying dominant energy balance components and inferring spatially integrated hydraulic geometry (doi 10.1029/2011WR011378)
- W06511** *J.-R. de Dreuzy, J. Carrera, M. Dentz, and T. Le Borgne*  
Time evolution of mixing in heterogeneous porous media (doi 10.1029/2011WR011360)
- W06512** *Christopher L. Shope, James E. Constantz, Clay A. Cooper, Donald M. Reeves, Greg Pohll, and W. Alan McKay*  
Influence of a large fluvial island, streambed, and stream bank on surface water-groundwater fluxes and water table dynamics (doi 10.1029/2011WR011564)
- W06513** *Yiping Guo, Shuguang Liu, and Brian W. Baetz*  
Probabilistic rainfall-runoff transformation considering both infiltration and saturation excess runoff generation processes (doi 10.1029/2011WR011613)
- W06514** *Taehee Hwang, Lawrence E. Band, James M. Vose, and Christina Tague*  
Ecosystem processes at the watershed scale: Hydrologic vegetation gradient as an indicator for lateral hydrologic connectivity of headwater catchments (doi 10.1029/2011WR011301)

- W06515** *Emanuele Pellichero, Roland Glantz, Meghan Burns, Debjani Mallick, Shao-Yiu Hsu, and Markus Hilpert*  
Dynamic capillary pressure during water infiltration: Experiments and Green-Ampt modeling  
(doi 10.1029/2011WR011541)
- W06516** *O. Castro-Orgaz, J. V. Giráldez, and N. I. Robinson*  
Second-order two-dimensional solution for the drainage of recharge based on Picard's iteration technique: A generalized Dupuit-Forchheimer equation (doi 10.1029/2011WR011751)
- W06517** *Alireza Yazdani and Paul Jeffrey*  
Water distribution system vulnerability analysis using weighted and directed network models  
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- W06518** *Rimjhim M. Aggarwal, Subhrajit Guhathakurta, Susanne Grossman-Clarke, and Vasudha Lathey*  
How do variations in Urban Heat Islands in space and time influence household water use? The case of Phoenix, Arizona (doi 10.1029/2011WR010924)
- W06519** *Nataliya Bulygina, Caroline Ballard, Neil McIntyre, Greg O'Donnell, and Howard Wheeler*  
Integrating different types of information into hydrological model parameter estimation: Application to ungauged catchments and land use scenario analysis (doi 10.1029/2011WR011207)
- W06520** *Ingo Heidbüchel, Peter A. Troch, Steve W. Lyon, and Markus Weiler*  
The master transit time distribution of variable flow systems (doi 10.1029/2011WR011293)
- W06521** *Y. Zhang, M. J. King, and A. Datta-Gupta*  
Robust streamline tracing using inter-cell fluxes in locally refined and unstructured grids  
(doi 10.1029/2011WR011396)
- W06522** *Marjorie Perroud and Stéphane Goyette*  
Interfacing a one-dimensional lake model with a single-column atmospheric model: 2. Thermal response of the deep Lake Geneva, Switzerland under a  $2 \times \text{CO}_2$  global climate change (doi 10.1029/2011WR011222)  
*Christopher A. Williams, Markus Reichstein, Nina Buchmann, Dennis Baldocchi, Christian Beer, Christopher Schwalm, Georg Wohlfahrt, Natalia Hasler, Christian Bernhofer, Thomas Foken, Dario Papale, Stan Schymanski, and Kevin Schaefer*
- W06523** *Christopher A. Williams, Markus Reichstein, Nina Buchmann, Dennis Baldocchi, Christian Beer, Christopher Schwalm, Georg Wohlfahrt, Natalia Hasler, Christian Bernhofer, Thomas Foken, Dario Papale, Stan Schymanski, and Kevin Schaefer*  
Climate and vegetation controls on the surface water balance: Synthesis of evapotranspiration measured across a global network of flux towers (doi 10.1029/2011WR011586)
- W06524** *Alessandra Crosato, Frehiwot Beidmariam Desta, John Cornelisse, Filip Schuurman, and Wim S. J. Uijttewaal*  
Experimental and numerical findings on the long-term evolution of migrating alternate bars in alluvial channels  
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- W06525** *G. F. Dorini, F. Ö. Thordarson, P. Bauer-Gottwein, H. Madsen, D. Rosbjerg, and H. Madsen*  
A convex programming framework for optimal and bounded suboptimal well field management  
(doi 10.1029/2011WR010987)
- W06526** *Sonia I. Seneviratne, Irene Lehner, Joachim Gurtz, Adriaan J. Teuling, Herbert Lang, Ulrich Moser, Dietmar Grebner, Lucas Menzel, Karl Schroff, Tomas Vitvar, and Massimiliano Zappa*  
Swiss prealpine Rietholz bach research catchment and lysimeter: 32 year time series and 2003 drought event  
(doi 10.1029/2011WR011749)
- W06527** *Ajay Kalra and Sajjad Ahmad*  
Estimating annual precipitation for the Colorado River Basin using oceanic-atmospheric oscillations  
(doi 10.1029/2011WR010667)

- W06528** *F. Tauro, S. Grimaldi, A. Petroselli, and M. Porfiri*  
Fluorescent particle tracers for surface flow measurements: A proof of concept in a natural stream  
(doi 10.1029/2011WR011610)
- W06529** *Yongchul Shin, Binayak P. Mohanty, and Amor V. M. Ines*  
Soil hydraulic properties in one-dimensional layered soil profile using layer-specific soil moisture assimilation scheme (doi 10.1029/2010WR009581)
- W06530** *D. Erdal, I. Neuweiler, and J. A. Huisman*  
Estimating effective model parameters for heterogeneous unsaturated flow using error models for bias correction  
(doi 10.1029/2011WR011062)
- W06531** *Gordon H. Brown, Michael C. Brooks, A. Lynn Wood, Michael D. Annable, and Junqi Huang*  
Aquitard contaminant storage and flux resulting from dense nonaqueous phase liquid source zone dissolution and remediation (doi 10.1029/2011WR011141)
- W06532** *Zikun Xing, Derek A. Fong, Kok Meng Tan, Edmond Yat-Man Lo, and Stephen G. Monismith*  
Water and heat budgets of a shallow tropical reservoir (doi 10.1029/2011WR011314)
- W06533** *Ali Zidane, Anis Younes, Peter Huggenberger, and Eric Zechner*  
The Henry semianalytical solution for saltwater intrusion with reduced dispersion (doi 10.1029/2011WR011157)
- W06534** *S. Pathiraja, S. Westra, and A. Sharma*  
Why continuous simulation? The role of antecedent moisture in design flood estimation  
(doi 10.1029/2011WR010997)
- W06535** *M. B. Kowalsky, S. Finsterle, K. H. Williams, C. Murray, M. Commer, D. Newcomer, A. Englert, C. I. Steefel, and S. S. Hubbard*  
On parameterization of the inverse problem for estimating aquifer properties using tracer data  
(doi 10.1029/2011WR011203)
- W06536** *Y. van der Velde, P. J. J. F. Torfs, S. E. A. T. M. van der Zee, and R. Uijlenhoet*  
Quantifying catchment-scale mixing and its effect on time-varying travel time distributions  
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- W06537** *Vladimir Cvetkovic, Christoffer Carstens, Jan-Olof Selroos, and Georgia Destouni*  
Water and solute transport along hydrological pathways (doi 10.1029/2011WR011367)
- W06538** *Tobias Schuetz, Markus Weiler, and Jens Lange*  
Multitracer assessment of wetland succession: Effects on conservative and nonconservative transport processes  
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## Technical Notes

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Old water contribution to streamflow: Insight from a linear Boussinesq model (doi 10.1029/2011WR011606)
- W06602** *Amanda C. Hall, Guy J.-P. Schumann, Jonathan L. Bamber, Paul D. Bates, and Mark A. Trigg*  
Geodetic corrections to Amazon River water level gauges using ICESat altimetry (doi 10.1029/2011WR010895)
- W06603** *M. Schneider and K.-U. Goss*  
Prediction of water retention curves for dry soils from an established pedotransfer function: Evaluation of the Webb model (doi 10.1029/2011WR011049)
- W06604** *Z. Hao and V. P. Singh*  
Entropy-copula method for single-site monthly streamflow simulation (doi 10.1029/2011WR011419)

## Corrections

- W06901** *F. Douglas Shields Jr. and Carlos V. Alonso*  
Correction to "Assessment of flow forces on large wood in rivers" (doi 10.1029/2012WR012296)
- W06902** *Leonard S. Sklar and William E. Dietrich*  
Correction to "A mechanistic model for river incision into bedrock by saltating bed load"  
(doi 10.1029/2012WR012267)

**Special Section: Approaches to Synthesis: Watersheds as Dynamic Cascading, Hierarchical Nonlinear Space-Time Filters**

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Intra-annual rainfall variability control on interannual variability of catchment water balance: A stochastic analysis (doi 10.1029/2010WR009869)
- W00J17** *Sheng Ye, Timothy P. Covino, Murugesu Sivapalan, Nandita B. Basu, Hong-Yi Li, and Shao-Wen Wang*  
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- W00L04** *Christopher A. Scott*  
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- W00L05** *Ram Mukul Fishman, Tobias Siegfried, Pradeep Raj, Vijay Modi, and Upmanu Lall*  
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- W00L06** *Yoshihide Wada, L. P. H. van Beek, and Marc F. P. Bierkens*  
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- W00L07** *Levan Elbakidze, Xiaozhe Shen, Garth Taylor, and Siân Mooney*  
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- W00L08** *R. T. Hanson, L. E. Flint, A. L. Flint, M. D. Dettinger, C. C. Faunt, Dan Cayan, and Wolfgang Schmid*  
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- W00L09** *Lixia Liao, Christopher T. Green, Barbara A. Bekins, and J. K. Böhlke*  
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- W00L10** *Feifei Pan, Marc Stieglitz, and Robert B. McKane*  
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- W00L11** *Steven K. Frey, David L. Rudolph, David R. Lapen, and Bonnie R. Ball Coelho*  
Viscosity dependent dual-permeability modeling of liquid manure movement in layered, macroporous, tile drained soil (doi 10.1029/2011WR010809)
- W00L12** *Adrian Unc, Michael J. Goss, Simon Cook, Xunde Li, Edward R. Atwill, and Thomas Harter*  
Analysis of matrix effects critical to microbial transport in organic waste-affected soils across laboratory and field scales (doi 10.1029/2011WR010775)
- W00L13** *George Kourakos, Frank Klein, Andrea Cortis, and Thomas Harter*  
A groundwater nonpoint source pollution modeling framework to evaluate long-term dynamics of pollutant exceedance probabilities in wells and other discharge locations (doi 10.1029/2011WR010813)

**Special Section in Progress**

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