

## Rapid Communications

- W04201** *S. J. Ikard, A. Revil, A. Jardani, W. F. Woodruff, M. Parekh, and M. Mooney*  
Saline pulse test monitoring with the self-potential method to nonintrusively determine the velocity of the pore water in leaking areas of earth dams and embankments (doi 10.1029/2010WR010247)

## Regular Articles

- W04501** *Margarita Genius, Angeliki N. Menegaki, and Konstantinos P. Tsagarakis*  
Assessing preferences for wastewater treatment in a rural area using choice experiments (doi 10.1029/2011WR010727)
- W04502** *A. Schöniger, W. Nowak, and H.-J. Hendricks Franssen*  
Parameter estimation by ensemble Kalman filters with transformed data: Approach and application to hydraulic tomography (doi 10.1029/2011WR010462)
- W04503** *Yan Chen and Dean S. Oliver*  
Multiscale parameterization with adaptive regularization for improved assimilation of nonlocal observation (doi 10.1029/2011WR011144)
- W04504** *James A. Smith, Mary Lynn Baeck, Gabriele Villarini, Claire Welty, Andrew J. Miller, and Witold F. Krajewski*  
Analyses of a long-term, high-resolution radar rainfall data set for the Baltimore metropolitan region (doi 10.1029/2011WR010641)
- W04505** *Nan Yu, Brice Boudevillain, Guy Delrieu, and Remko Uijlenhoet*  
Estimation of rain kinetic energy from radar reflectivity and/or rain rate based on a scaling formulation of the raindrop size distribution (doi 10.1029/2011WR011437)
- W04506** *Md Jahangir Alam and Jonathan L. Goodall*  
Toward disentangling the effect of hydrologic and nitrogen source changes from 1992 to 2001 on incremental nitrogen yield in the contiguous United States (doi 10.1029/2011WR010967)
- W04507** *Stéphane Goyette and Marjorie Perroud*  
Interfacing a one-dimensional lake model with a single-column atmospheric model: Application to the deep Lake Geneva, Switzerland (doi 10.1029/2011WR011223)
- W04508** *Marieke A. Eleveld*  
Wind-induced resuspension in a shallow lake from Medium Resolution Imaging Spectrometer (MERIS) full-resolution reflectances (doi 10.1029/2011WR011121)
- W04509** *Christopher J. Hutton, Richard E. Brazier, Andrew P. Nicholas, and Mark Nearing*  
On the effects of improved cross-section representation in one-dimensional flow routing models applied to ephemeral rivers (doi 10.1029/2011WR011298)
- W04510** *S. M. Bateni and D. Entekhabi*  
Relative efficiency of land surface energy balance components (doi 10.1029/2011WR011357)
- W04511** *Ladislav Gaál, Ján Szolgay, Silvia Kohnová, Juraj Parajka, Ralf Merz, Alberto Viglione, and Günter Blöschl*  
Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology (doi 10.1029/2011WR011509)

- W04512** *Yeshewatesfa Hundecha and Bruno Merz*  
Exploring the relationship between changes in climate and floods using a model-based analysis (doi 10.1029/2011WR010527)
- W04513** *Adam S. Ward, Michael Fitzgerald, Michael N. Gooseff, Thomas J. Voltz, Andrew M. Binley, and Kamini Singha*  
Hydrologic and geomorphic controls on hyporheic exchange during base flow recession in a headwater mountain stream (doi 10.1029/2011WR011461)
- W04514** *Fateh Chebana, Sophie Dabo-Niang, and Taha B. M. J. Ouarda*  
Exploratory functional flood frequency analysis and outlier detection (doi 10.1029/2011WR011040)
- W04515** *John L. Sabo and Elizabeth M. Hagen*  
A network theory for resource exchange between rivers and their watersheds (doi 10.1029/2011WR010703)
- W04516** *F. Douglas Shields Jr. and Carlos V. Alonso*  
Assessment of flow forces on large wood in rivers (doi 10.1029/2011WR011547)
- W04517** *Chris M. Hall, M. Clara Castro, Kyger C. Lohmann, and Tie Sun*  
Testing the noble gas paleothermometer with a yearlong study of groundwater noble gases in an instrumented monitoring well (doi 10.1029/2011WR010951)
- W04518** *Caleb M. DeChant and Hamid Moradkhani*  
Examining the effectiveness and robustness of sequential data assimilation methods for quantification of uncertainty in hydrologic forecasting (doi 10.1029/2011WR011011)
- W04519** *R. A. Payn, M. N. Gooseff, B. L. McGlynn, K. E. Bencala, and S. M. Wondzell*  
Exploring changes in the spatial distribution of stream baseflow generation during a seasonal recession (doi 10.1029/2011WR011552)
- W04520** *B. R. Scanlon, L. Longuevergne, and D. Long*  
Ground referencing GRACE satellite estimates of groundwater storage changes in the California Central Valley, USA (doi 10.1029/2011WR011312)
- W04521** *Ole Rössler, Bernd Diekkrüger, and Jörg Löffler*  
Potential drought stress in a Swiss mountain catchment—Ensemble forecasting of high mountain soil moisture reveals a drastic decrease, despite major uncertainties (doi 10.1029/2011WR011188)
- W04522** *Adam Szymkiewicz, Rainer Helmig, and Insa Neuweiler*  
Upscaling unsaturated flow in binary porous media with air entry pressure effects (doi 10.1029/2011WR010893)
- W04523** *Feike J. Leij, Nobuo Toride, Malcolm S. Field, and Antonella Sciortino*  
Solute transport in dual-permeability porous media (doi 10.1029/2011WR011502)
- W04524** *Daniel B. Wright, James A. Smith, Gabriele Villarini, and Mary Lynn Baeck*  
Hydroclimatology of flash flooding in Atlanta (doi 10.1029/2011WR011371)
- W04525** *S. Zanardo, N. B. Basu, G. Botter, A. Rinaldo, and P. S. C. Rao*  
Dominant controls on pesticide transport from tile to catchment scale: Lessons from a minimalist model (doi 10.1029/2010WR010088)
- W04526** *L. Talon, D. Bauer, N. Gland, S. Youssef, H. Auradou, and I. Ginzburg*  
Assessment of the two relaxation time Lattice-Boltzmann scheme to simulate Stokes flow in porous media (doi 10.1029/2011WR011385)
- W04527** *Erica R. Siirila and Reed M. Maxwell*  
Evaluating effective reaction rates of kinetically driven solutes in large-scale, statistically anisotropic media: Human health risk implications (doi 10.1029/2011WR011516)

- W04528** *Vladimir Cvetkovic*  
A general memory function for modeling mass transfer in groundwater transport (doi 10.1029/2011WR011657)
- W04529** *Daesang Kim and W. Brent Lindquist*  
A semianalytic model for the computation of imbibition through polygonal cross sections (doi 10.1029/2011WR011111)
- W04530** *Joachim Tremosa, Julio Gonçalvès, and Jean-Michel Matray*  
Natural conditions for more limited osmotic abnormal fluid pressures in sedimentary basins (doi 10.1029/2011WR010914)
- W04531** *F. W. Landerer and S. C. Swenson*  
Accuracy of scaled GRACE terrestrial water storage estimates (doi 10.1029/2011WR011453)
- W04532** *Jintao Liu, Xi Chen, Xingnan Zhang, and Kyle D. Hoagland*  
Grid digital elevation model based algorithms for determination of hillslope width functions through flow distance transforms (doi 10.1029/2011WR011395)
- W04533** *Petra M. Kuhnert, Brent L. Henderson, Stephen E. Lewis, Zoe T. Bainbridge, Scott N. Wilkinson, and Jon E. Brodie*  
Quantifying total suspended sediment export from the Burdekin River catchment using the loads regression estimator tool (doi 10.1029/2011WR011080)
- W04534** *Emily C. Sanders, Majdi R. Abou Najm, Rabi H. Mohtar, Eileen Klavivko, and Darrell Schulze*  
Field method for separating the contribution of surface-connected preferential flow pathways from flow through the soil matrix (doi 10.1029/2011WR011103)

#### **Technical Notes**

- W04601** *Xavier Comas and William Wright*  
Heterogeneity of biogenic gas ebullition in subtropical peat soils is revealed using time-lapse cameras (doi 10.1029/2011WR011654)

**Special Section in progress.**

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