

Regular Articles

- W12501** *S. D. Sandbach, S. N. Lane, R. J. Hardy, M. L. Amsler, P. J. Ashworth, J. L. Best, A. P. Nicholas, O. Orfeo, D. R. Parsons, A. J. H. Reesink, and R. N. Szupiany*
Application of a roughness-length representation to parameterize energy loss in 3-D numerical simulations of large rivers (doi 10.1029/2011WR011284)
- W12502** *Xiao-Wei Jiang, Li Wan, Shemin Ge, Guo-Liang Cao, Guang-Cai Hou, Fu-Sheng Hu, Xu-Sheng Wang, Hailong Li, and Si-Hai Liang*
A quantitative study on accumulation of age mass around stagnation points in nested flow systems (doi 10.1029/2012WR012509)
- W12503** *S. Coutu, D. Del Giudice, L. Rossi, and D. A. Barry*
Modeling of facade leaching in urban catchments (doi 10.1029/2012WR012359)
- W12504** *Paul D. Hynds, Bruce D. Misstear, and Laurence W. Gill*
Development of a microbial contamination susceptibility model for private domestic groundwater sources (doi 10.1029/2012WR012492)
- W12505** *S. Sadri and D. H. Burn*
Nonparametric methods for drought severity estimation at ungauged sites (doi 10.1029/2011WR011323)
- W12506** *Alexander N. Sukhodolov and Tatiana A. Sukhodolova*
Vegetated mixing layer around a finite-size patch of submerged plants: Part 2. Turbulence statistics and structures (doi 10.1029/2011WR011805)
- W12507** *Valeriy Y. Ivanov, Lucy R. Hutrya, Steven C. Wofsy, J. William Munger, Scott R. Saleska, Raimundo C. de Oliveira Jr., and Plinio B. de Camargo*
Root niche separation can explain avoidance of seasonal drought stress and vulnerability of overstorey trees to extended drought in a mature Amazonian forest (doi 10.1029/2012WR011972)
- W12508** *G. Jeelani, Johannes J. Feddema, Cornelis J. van der Veen, and Leigh Stearns*
Role of snow and glacier melt in controlling river hydrology in Liddar watershed (western Himalaya) under current and future climate (doi 10.1029/2011WR011590)
- W12509** *Jun Yan, Gong-Yi Liao, Mekonnen Gebremichael, Robert Shedd, and David R. Vallee*
Characterizing the uncertainty in river stage forecasts conditional on point forecast values (doi 10.1029/2012WR011818)
- W12510** *M. Sulis, C. Paniconi, M. Marrocu, D. Huard, and D. Chaumont*
Hydrologic response to multimodel climate output using a physically based model of groundwater/surface water interactions (doi 10.1029/2012WR012304)
- W12511** *Joachim Moortgat, Zhidong Li, and Abbas Firoozabadi*
Three-phase compositional modeling of CO₂ injection by higher-order finite element methods with CPA equation of state for aqueous phase (doi 10.1029/2011WR011736)
- W12512** *N. Williamson, S. E. Norris, S. W. Armfield, and M. P. Kirkpatrick*
Lateral circulation in a stratified open channel on a 120° bend (doi 10.1029/2012WR012218)
- W12513** *Oussama Gharbi and Martin J. Blunt*
The impact of wettability and connectivity on relative permeability in carbonates: A pore network modeling analysis (doi 10.1029/2012WR011877)
- W12514** *A. Lorke, D. F. McGinnis, A. Maeck, and H. Fischer*
Effect of ship locking on sediment oxygen uptake in impounded rivers (doi 10.1029/2012WR012483)

- W12515** *Brian A. Ebel*
Wildfire impacts on soil-water retention in the Colorado Front Range, United States (doi 10.1029/2012WR012362)
- W12516** *Weihua Li and A. Sankarasubramanian*
Reducing hydrologic model uncertainty in monthly streamflow predictions using multimodel combination (doi 10.1029/2011WR011380)
- W12517** *G. Besio, A. Stocchino, S. Angiolani, and M. Brocchini*
Transversal and longitudinal mixing in compound channels (doi 10.1029/2012WR012316)
- W12518** *M. Nitsche, D. Rickenmann, J. W. Kirchner, J. M. Turowski, and A. Badoux*
Macroroughness and variations in reach-averaged flow resistance in steep mountain streams (doi 10.1029/2012WR012091)
- W12519** *Xing Yuan and Eric F. Wood*
Downscaling precipitation or bias-correcting streamflow? Some implications for coupled general circulation model (CGCM)-based ensemble seasonal hydrologic forecast (doi 10.1029/2012WR012256)
- W12520** *Hamid Moradkhani, Caleb M. DeChant, and Soroosh Sorooshian*
Evolution of ensemble data assimilation for uncertainty quantification using the particle filter-Markov chain Monte Carlo method (doi 10.1029/2012WR012144)
- W12521** *C. J. Keylock*
A resampling method for generating synthetic hydrological time series with preservation of cross-correlative structure and higher-order properties (doi 10.1029/2012WR011923)
- W12522** *Rosa Aisa and Gemma Larramona*
Household water saving: Evidence from Spain (doi 10.1029/2012WR012021)
- W12523** *M. Nabi, H. J. de Vriend, E. Mosselman, C. J. Sloff, and Y. Shimizu*
Detailed simulation of morphodynamics: 1. Hydrodynamic model (doi 10.1029/2012WR011911)
- W12524** *A. Langlois, A. Royer, C. Derksen, B. Montpetit, F. Dupont, and K. Goïta*
Coupling the snow thermodynamic model SNOWPACK with the microwave emission model of layered snowpacks for subarctic and arctic snow water equivalent retrievals (doi 10.1029/2012WR012133)
- W12525** *Gajan Sivandran and Rafael L. Bras*
Identifying the optimal spatially and temporally invariant root distribution for a semiarid environment (doi 10.1029/2012WR012055)
- W12526** *Kathleen M. Smits, Viet V. Ngo, Abdullah Cihan, Toshihiro Sakaki, and Tissa H. Illangasekare*
An evaluation of models of bare soil evaporation formulated with different land surface boundary conditions and assumptions (doi 10.1029/2012WR012113)
- W12527** *Gerardo Severino, Samuele De Bartolo, Gerardo Toraldo, Gowri Srinivasan, and Hari Viswanathan*
Travel time approach to kinetically sorbing solute by diverging radial flows through heterogeneous porous formations (doi 10.1029/2012WR012608)
- W12528** *Lawrence C. Murdoch and Leonid N. Germanovich*
Storage change in a flat-lying fracture during well tests (doi 10.1029/2011WR011571)
- W12529** *Julie C. Padowski and James W. Jawitz*
Water availability and vulnerability of 225 large cities in the United States (doi 10.1029/2012WR012335)
- W12530** *J. N. King*
Synthesis of benthic flux components in the Patos Lagoon coastal zone, Rio Grande do Sul, Brazil (doi 10.1029/2011WR011477)

Technical Notes

W12601 *Rajeshwar Mehrotra and Ashish Sharma*

An improved standardization procedure to remove systematic low frequency variability biases in GCM simulations (doi 10.1029/2012WR012446)

W12602 *David J. Nott, Lucy Marshall, and Jason Brown*

Generalized likelihood uncertainty estimation (GLUE) and approximate Bayesian computation: What's the connection? (doi 10.1029/2011WR011128)

The following articles are part of the special section Climatic, Hydrological, and Land Use Impacts on Large Rivers. For a complete listing of articles in this special section, go to <http://www.agu.org/journals/wr/> and select the link under Journal Details for Special Sections.

W00M02 *Matthew P. Miller*

The influence of reservoirs, climate, land use and hydrologic conditions on loads and chemical quality of dissolved organic carbon in the Colorado River (doi 10.1029/2012WR012312)

W00M03 *Jacques St Laurent and Asit Mazumder*

The influence of land-use composition on fecal contamination of riverine source water in southern British Columbia (doi 10.1029/2012WR012455)

The following article is part of the special section Advancing Computational Methods in Hydrology. For a complete listing of articles in this special section, go to <http://www.agu.org/journals/wr/> and select the link under Journal Details for Special Sections.

W00N02 *Mehdi Zeidouni*

Analytical model of leakage through fault to overlying formations (doi 10.1029/2012WR012582)

W00P02 *Lisa Angermann, Stefan Krause, and Joerg Lewandowski*

Application of heat pulse injections for investigating shallow hyporheic flow in a lowland river (doi 10.1029/2012WR012564)

2012 Referees

The Author Index appears at the end of the issue.