

Review Article

- W07401** *Saman Razavi, Bryan A. Tolson, and Donald H. Burn*
Review of surrogate modeling in water resources (doi 10.1029/2011WR011527)

Regular Articles

- W07501** *David C. Mays and Roseanna M. Neupauer*
Plume spreading in groundwater by stretching and folding (doi 10.1029/2011WR011696)
- W07502** *C. Segura, A. L. James, D. Lazzati, and N. T. Roulet*
Scaling relationships for event water contributions and transit times in small-forested catchments in Eastern Quebec (doi 10.1029/2012WR011890)
- W07503** *Eungyu Park*
Delineation of recharge rate from a hybrid water table fluctuation method (doi 10.1029/2011WR011696)
- W07504** *Osama Z. Al-Hamdan, Frederick B. Pierson, Mark A. Nearing, C. Jason Williams, Jeffrey J. Stone, Patrick R. Kormos, Jan Boll, and Mark A. Weltz*
Concentrated flow erodibility for physically based erosion models: Temporal variability in disturbed and undisturbed rangelands (doi 10.1029/2011WR011464)
- W07505** *Kevin A. Waters and Joanna Crowe Curran*
Investigating step-pool sequence stability (doi 10.1029/2011WR011436)
- W07506** *T. C. Johnson, L. D. Slater, D. Ntarlagiannis, F. D. Day-Lewis, and M. Elwaseif*
Monitoring groundwater-surface water interaction using time-series and time-frequency analysis of transient three-dimensional electrical resistivity changes (doi 10.1029/2012WR011893)
- W07507** *C. P. Haslauer, P. Guthke, A. Bárdossy, and E. A. Sudicky*
Effects of non-Gaussian copula-based hydraulic conductivity fields on macrodispersion (doi 10.1029/2011WR011425)
- W07508** *Nicholas B. Engdahl, Timothy R. Ginn, and Graham E. Fogg*
Non-Fickian dispersion of groundwater age (doi 10.1029/2012WR012251)
- W07509** *M. Konar, C. Dalin, N. Hanasaki, A. Rinaldo, and I. Rodriguez-Iturbe*
Temporal dynamics of blue and green virtual water trade networks (doi 10.1029/2012WR011959)
- W07510** *Eric Laloy, Niklas Linde, and Jasper A. Vrugt*
Mass conservative three-dimensional water tracer distribution from Markov chain Monte Carlo inversion of time-lapse ground-penetrating radar data (doi 10.1029/2011WR011238)
- W07511** *Hahn Chul Jung, Michael Jasinski, Jin-Woo Kim, C. K. Shum, Paul Bates, Jeffrey Neal, Hyongki Lee, and Doug Alsdorf*
Calibration of two-dimensional floodplain modeling in the central Atchafalaya Basin Floodway System using SAR interferometry (doi 10.1029/2012WR011951)
- W07512** *Paolo Peruzzo, Andrea Defina, and Heidi Nepf*
Capillary trapping of buoyant particles within regions of emergent vegetation (doi 10.1029/2012WR011944)

- W07513** *Philip Brunner, J. Doherty, and Craig T. Simmons*
Uncertainty assessment and implications for data acquisition in support of integrated hydrologic models (doi 10.1029/2011WR011342)
- W07514** *Afshin Pourmokhtarian, Charles T. Driscoll, John L. Campbell, and Katharine Hayhoe*
Modeling potential hydrochemical responses to climate change and increasing CO₂ at the Hubbard Brook Experimental Forest using a dynamic biogeochemical model (PnET-BGC) (doi 10.1029/2011WR011228)
- W07515** *D. Triadis and P. Broadbridge*
The Green–Ampt limit with reference to infiltration coefficients (doi 10.1029/2011WR011747)
- W07516** *Cesar Perez-Valdivia, Dave Sauchyn, and Jessica Vanstone*
Groundwater levels and teleconnection patterns in the Canadian Prairies (doi 10.1029/2011WR010930)
- W07517** *Iddo Kan and Mickey Rapaport-Rom*
Regional blending of fresh and saline irrigation water: Is it efficient? (doi 10.1029/2011WR011285)
- W07518** *Jim Pizzuto*
Predicting the accumulation of mercury-contaminated sediment on riverbanks—An analytical approach (doi 10.1029/2012WR011906)
- W07519** *A. Ebigbo, A. Phillips, R. Gerlach, R. Helmig, A. B. Cunningham, H. Class, and L. H. Spangler*
Darcy-scale modeling of microbially induced carbonate mineral precipitation in sand columns (doi 10.1029/2011WR011714)
- W07520** *Fuxing Wang, Lei Wang, Huicheng Zhou, Oliver C. Saavedra Valeriano, Toshio Koike, and Wenlong Li*
Ensemble hydrological prediction-based real-time optimization of a multiobjective reservoir during flood season in a semiarid basin with global numerical weather predictions (doi 10.1029/2011WR011366)
- W07521** *Thomas H. Painter, S. McKenzie Skiles, Jeffrey S. Deems, Ann C. Bryant, and Christopher C. Landry*
Dust radiative forcing in snow of the Upper Colorado River Basin: 1. A 6 year record of energy balance, radiation, and dust concentrations (doi 10.1029/2012WR011985)
- W07522** *S. McKenzie Skiles, Thomas H. Painter, Jeffrey S. Deems, Ann C. Bryant, and Christopher C. Landry*
Dust radiative forcing in snow of the Upper Colorado River Basin: 2. Interannual variability in radiative forcing and snowmelt rates (doi 10.1029/2012WR011986)
- W07523** *Marc Lebeau and Jean-Marie Konrad*
An extension of the capillary and thin film flow model for predicting the hydraulic conductivity of air-free frozen porous media (doi 10.1029/2012WR011916)
- W07524** *Michelle A. Walvoord, Clifford I. Voss, and Tristan P. Wellman*
Influence of permafrost distribution on groundwater flow in the context of climate-driven permafrost thaw: Example from Yukon Flats Basin, Alaska, United States (doi 10.1029/2011WR011595)
- W07525** *Rasmus Houborg, Matthew Rodell, Bailing Li, Rolf Reichle, and Benjamin F. Zaitchik*
Drought indicators based on model-assimilated Gravity Recovery and Climate Experiment (GRACE) terrestrial water storage observations (doi 10.1029/2011WR011291)

Technical Note

- W07601** *Takuya Ishibashi, Noriaki Watanabe, Nobuo Hirano, Atsushi Okamoto, and Noriyoshi Tsuchiya*
GeoFlow: A novel model simulator for prediction of the 3-D channeling flow in a rock fracture network (doi 10.1029/2011WR011226) !

Data and Analysis Note

- W07701** *A. B. Smith, J. P. Walker, A. W. Western, R. I. Young, K. M. Ellett, R. C. Pipunic, R. B. Grayson, L. Siriwardena, F. H. S. Chiew, and H. Richter*
The Murrumbidgee soil moisture monitoring network data set (doi 10.1029/2012WR011976)

Commentaries

- W07801** *A. Fiori, G. Dagan, and I. Jankovic*
Comment on “Comparison of Fickian and temporally nonlocal transport theories over many scales in an exhaustively sampled sandstone slab” by Elizabeth Major et al. (doi 10.1029/2011WR011706)
- W07802** *David A. Benson, Adam Atchley, Reed M. Maxwell, Eileen Poeter, Hamed Ibrahim, Arianne Dean, Jordan Revielle, Mine Dogan, and Elizabeth Major*
Reply to comment by A. Fiori et al. on “Comparison of Fickian and temporally nonlocal transport theories over many scales in an exhaustively sampled sandstone slab” (doi 10.1029/2012WR012004)

Special Section in Progress

The Author Index appears at the end of the issue.