

Research Articles

- 6269 *Bo Guo, Karl W. Bandilla, Florian Doster, Eirik Keilegavlen, and Michael A. Celia*
A vertically integrated model with vertical dynamics for CO₂ storage (doi 10.1002/2013WR015215)
- 6285 *F. L. Paton, H. R. Maier, and G. C. Dandy*
Including adaptation and mitigation responses to climate change in a multiobjective evolutionary algorithm framework for urban water supply systems incorporating GHG emissions (doi 10.1002/2013WR015195)
- 6305 *L. Luquot, T. S. Roetting, and J. Carrera*
Characterization of flow parameters and evidence of pore clogging during limestone dissolution experiments (doi 10.1002/2013WR015193)
- 6322 *Mohamed K. Nassar and Timothy R. Ginn*
Impact of numerical artifact of the forward model in the inverse solution of density-dependent flow problem (doi 10.1002/2013WR014672)
- 6339 *Chandana Gangodagamage, Joel C. Rowland, Susan S. Hubbard, Steven P. Brumby, Anna K. Liljedahl, Haruko Wainwright, Cathy J. Wilson, Garrett L. Altmann, Baptiste Dafflon, John Peterson, Craig Ulrich, Craig E. Tweedie, and Stan D. Wulschleger*
Extrapolating active layer thickness measurements across Arctic polygonal terrain using LiDAR and NDVI data sets (doi 10.1002/2013WR014283)
- 6358 *Ilenia Battiato and Simonetta Rubol*
Single-parameter model of vegetated aquatic flows (doi 10.1002/2013WR015065)
- 6370 *Timothy Foster, Nicholas Brozović, and Adrian P. Butler*
Modeling irrigation behavior in groundwater systems (doi 10.1002/2014WR015620)
- 6390 *Jingyuan Li, Holly A. Michael, Joshua M. Duke, Kent D. Messer, and Jordan F. Suter*
Behavioral response to contamination risk information in a spatially explicit groundwater environment: Experimental evidence (doi 10.1002/2013WR015230)
- 6406 *Luca Carniato, Gerrit Schoups, and Nick van de Giesen*
Inference of reactive transport model parameters using a Bayesian multivariate approach (doi 10.1002/2013WR014156)
- 6428 *Christine E. Boyle, Qiuqiong Huang, and Jinxia Wang*
Assessing the impacts of fiscal reforms on investment in village-level irrigation infrastructure (doi 10.1002/2013WR015125)
- 6447 *Jean-Pierre Bardet and Richard Little*
Epidemiology of urban water distribution systems (doi 10.1002/2013WR015017)
- 6466 *R. S. Moir, A. H. Parker, and R. T. Bown*
A simple inverse method for the interpretation of pumped flowing fluid electrical conductivity logs (doi 10.1002/2013WR013871)
- 6479 *Eva Kroener, Mohsen Zarebanadkouki, Anders Kaestner, and Andrea Carminati*
Nonequilibrium water dynamics in the rhizosphere: How mucilage affects water flow in soils (doi 10.1002/2013WR014756)
- 6496 *M. Jim Hendry and Glenn A. Harrington*
Comparing vertical profiles of natural tracers in the Williston Basin to estimate the onset of deep aquifer activation (doi 10.1002/2014WR015652)
- 6507 *Andreas Hartmann, Matías Mudarra, Bartolomé Andreo, Ana Marín, Thorsten Wagener, and Jens Lange*
Modeling spatiotemporal impacts of hydroclimatic extremes on groundwater recharge at a Mediterranean karst aquifer (doi 10.1002/2014WR015685)
- 6522 *Georges Kesserwani and Yueling Wang*
Discontinuous Galerkin flood model formulation: Luxury or necessity? (doi 10.1002/2013WR014906)

- 6542 *Thomas P. Chapin, Andrew S. Todd, and Matthew P. Zeigler*
Robust, low-cost data loggers for stream temperature, flow intermittency, and relative conductivity monitoring (doi 10.1002/2013WR015158)
- 6549 *Nelson L. Dias, Tomás L. Chor, and Ailín Ruiz de Zárate*
A semianalytical solution for the Boussinesq equation with nonhomogeneous constant boundary conditions (doi 10.1002/2014WR015437)
- 6557 *Tamara Ghilardi, Mário J. Franca, and Anton J. Schleiss*
Bed load fluctuations in a steep channel (doi 10.1002/2013WR014449)
- 6577 *Ana Angulo, Majed Atwi, Ramón Barberán, and Jesús Mur*
Economic analysis of the water demand in the hotels and restaurants sector: Shadow prices and elasticities (doi 10.1002/2013WR014085)
- 6592 *Majid Shafiee-Jood, Ximing Cai, Ligang Chen, Xin-Zhong Liang, and Praveen Kumar*
Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois (doi 10.1002/2014WR015822)
- 6610 *Claire J. Oswald and Brian A. Branfireun*
Antecedent moisture conditions control mercury and dissolved organic carbon concentration dynamics in a boreal headwater catchment (doi 10.1002/2013WR014736)
- 6628 *Matthew A. Thomas and Keith Loague*
Hydrogeologic insights for a Devil's Slide-like system (doi 10.1002/2014WR015649)
- 6646 *T. R. Kjeldsen, D. A. Jones, and D. G. Morris*
Using multiple donor sites for enhanced flood estimation in ungauged catchments (doi 10.1002/2013WR015203)
- 6658 *Richa Ojha, A. Prakash, and Rao S. Govindaraju*
Local- and field-scale stochastic-advective vertical solute transport in horizontally heterogeneous unsaturated soils (doi 10.1002/2014WR015562)
- 6679 *Andrew Reid Bell, M. Azeem Ali Shah, and Patrick S. Ward*
Reimagining cost recovery in Pakistan's irrigation system through willingness-to-pay estimates for irrigation water from a discrete choice experiment (doi 10.1002/2014WR015704)
- 6696 *Asaf Ben Neriah, Shmuel Assouline, Uri Shavit, and Noam Weisbrod*
Impact of ambient conditions on evaporation from porous media (doi 10.1002/2014WR015523)
- 6713 *Manuela Giroto, Gonzalo Cortés, Steven A. Margulis, and Michael Durand²*
Examining spatial and temporal variability in snow water equivalent using a 27 year reanalysis: Kern River watershed, Sierra Nevada (doi 10.1002/2014WR015346)
- 6735 *Robyn S. Wilson, Gregory Howard, and Elizabeth A. Burnett*
Improving nutrient management practices in agriculture: The role of risk-based beliefs in understanding farmers' attitudes toward taking additional action (doi 10.1002/2013WR015200)
- 6747 *James W. Heiss and Holly A. Michael*
Saltwater-freshwater mixing dynamics in a sandy beach aquifer over tidal, spring-neap, and seasonal cycles (doi 10.1002/2014WR015574)
- 6767 *Mojtaba Sadegh and Jasper A. Vrugt*
Approximate Bayesian Computation using Markov Chain Monte Carlo simulation: DREAM_(ABC) (doi 10.1002/2014WR015386)
- 6788 *Lyndsay B. Ball, Jonathan Saul Caine, and Shemin Ge*
Controls on groundwater flow in a semiarid folded and faulted intermountain basin (doi 10.1002/2013WR014451)
- 6810 *Weihoa Li, A. Sankarasubramanian, R. S. Ranjithan, and E. D. Brill*
Improved regional water management utilizing climate forecasts: An interbasin transfer model with a risk management framework (doi 10.1002/2013WR015248)
- 6828 *J. Beaujean, F. Nguyen, A. Kemna, A. Antonsson, and P. Engesgaard*
Calibration of seawater intrusion models: Inverse parameter estimation using surface electrical resistivity tomography and borehole data (doi 10.1002/2013WR014020)
- 6850 *Edoardo Borgomeo, Jim W. Hall, Fai Fung, Glenn Watts, Keith Colquhoun, and Chris Lambert*
Risk-based water resources planning: Incorporating probabilistic nonstationary climate uncertainties (doi 10.1002/2014WR015558)
- 6874 *N. Wanders, M. F. P. Bierkens, S. M. de Jong, A. de Roo, and D. Karssenber*
The benefits of using remotely sensed soil moisture in parameter identification of large-scale hydrological models (doi 10.1002/2013WR014639)

- 6892 *James L. McCreight, Eric E. Small, and Kristine M. Larson*
Snow depth, density, and SWE estimates derived from GPS reflection data: Validation in the western U. S. (doi 10.1002/2014WR015561)
- 6910 *Maria Pool, Vincent E. A. Post, and Craig T. Simmons*
Effects of tidal fluctuations on mixing and spreading in coastal aquifers: Homogeneous case (doi 10.1002/2014WR015534)
- 6927 *Sanchari Ghosh, Kelly M. Cobourn, and Levan Elbakidze*
Water banking, conjunctive administration, and drought: The interaction of water markets and prior appropriation in southeastern Idaho (doi 10.1002/2014WR015572)
- 6950 *Zhongbo Yu, Xiaolei Fu, Lifeng Luo, Haishen Lü, Qin Ju, Di Liu, Dresden A. Kalin, Dui Huang, Chuanguo Yang, and Lili Zhao*
One-dimensional soil temperature simulation with Common Land Model by assimilating in situ observations and MODIS LST with the ensemble particle filter (doi 10.1002/2012WR013473)
- 6966 *Anja Klotzsche, Jan van der Kruk, John Bradford, and Harry Vereecken*
Detection of spatially limited high-porosity layers using crosshole GPR signal analysis and full-waveform inversion (doi 10.1002/2013WR015177)
- 6986 *Matthew P. Miller, David D. Susong, Christopher L. Shope, Victor M. Heilweil, and Bernard J. Stolp*
Continuous estimation of baseflow in snowmelt-dominated streams and rivers in the Upper Colorado River Basin: A chemical hydrograph separation approach (doi 10.1002/2013WR014939)
- 7000 *Dong Ha Kim and Aris P. Georgakakos*
Hydrologic routing using nonlinear cascaded reservoirs (doi 10.1002/2014WR015662)
- 7020 *Mark B. Hausner, Kevin P. Wilson, D. Bailey Gaines, Francisco Suárez, G. Gary Scoppettone, and Scott W. Tyler*
Life in a fishbowl: Prospects for the endangered Devils Hole pupfish (*Cyprinodon diabolis*) in a changing climate* (doi 10.1002/2014WR015511)
- *This article is part of a Special Section—Eco-hydrology of Semiarid Environments: Confronting Mathematical Models with Ecosystem Complexity**
- 7035 *D. Kool, A. Ben-Gal, N. Agam, J. Šimůnek, J. L. Heitman, T. J. Sauer, and N. Lazarovitch*
Spatial and diurnal below canopy evaporation in a desert vineyard: Measurements and modeling* (doi 10.1002/2014WR015409)
- *This article is part of a Special Section—Eco-hydrology of Semiarid Environments: Confronting Mathematical Models with Ecosystem Complexity**

Technical Reports: Methods

- 7050 *Zach Van Arkel and Amy L. Kaleita*
Identifying sampling locations for field-scale soil moisture estimation using K-means clustering (doi 10.1002/2013WR015015)

Technical Reports: Data

- 7058 *G. Dagan and A. Rabinovich*
Oscillatory pumping wells in phreatic, compressible, and homogeneous aquifers (doi 10.1002/2014WR015454)