

Research Articles

- 4209** *D. Anghileri, N. Voisin, A. Castelletti, F. Pianosi, B. Nijssen, and D. P. Lettenmaier*
Value of long-term streamflow forecasts to reservoir operations for water supply in snow-dominated river catchments (doi 10.1002/2015WR017864)
- 4226** *Sheen Joseph, Malcolm Ingham, and Gideon Gouws*
Spectral-induced polarization measurements on sieved sands and the relationship to permeability (doi 10.1002/2015WR018087)
- 4247** *Serghei A. Bocaniov and Donald Scavia*
Temporal and spatial dynamics of large lake hypoxia: Integrating statistical and three-dimensional dynamic models to enhance lake management criteria (doi 10.1002/2015WR018170)
- 4264** *Nitin K. Singh, Ryan E. Emanuel, and Brian L. McGlynn*
Variability in isotopic composition of base flow in two headwater streams of the southern Appalachians (doi 10.1002/2015WR018463)
- 4280** *Jianzhi Dong, Susan C. Steele-Dunne, Tyson E. Ochsner, and Nick van de Giesen*
Determining soil moisture and soil properties in vegetated areas by assimilating soil temperatures (doi 10.1002/2015WR018425)
- 4301** *N. L. Silverman and M. P. Maneta*
Detectability of change in winter precipitation within mountain landscapes: Spatial patterns and uncertainty (doi 10.1002/2014WR016493)
- 4321** *Gordon Osterman, Kristina Keating, Andrew Binley, and Lee Slater*
A laboratory study to estimate pore geometric parameters of sandstones using complex conductivity and nuclear magnetic resonance for permeability prediction (doi 10.1002/2015WR018472)
- 4338** *Philip J. Noske, Petter Nyman, Patrick N. J. Lane, and Gary J. Sheridan*
Effects of aridity in controlling the magnitude of runoff and erosion after wildfire (doi 10.1002/2015WR017611)
- 4358** *Tyler V. King, Bethany T. Neilson, Levi D. Overbeck, and Douglas L. Kane*
Water temperature controls in low arctic rivers (doi 10.1002/2015WR017965)
- 4377** *Pieter W. S. K. Botha and Adrian P. Sheppard*
Mapping permeability in low-resolution micro-CT images: A multiscale statistical approach (doi 10.1002/2015WR018454)
- 4399** *S. G. Mengistu and C. Spence*
Testing the ability of a semidistributed hydrological model to simulate contributing area (doi 10.1002/2016WR018760)
- 4416** *Xiangyu Luo, Xu Liang, and Jeen-Shang Lin*
Plant transpiration and groundwater dynamics in water-limited climates: Impacts of hydraulic redistribution (doi 10.1002/2015WR017316)
- 4438** *Mohamed Hayek*
Analytical solution to transient Richards' equation with realistic water profiles for vertical infiltration and parameter estimation (doi 10.1002/2015WR018533)
- 4458** *Seyed Mostafa Jafari Raad, Hamid Emami-Meybodi, and Hassan Hassanzadeh*
On the choice of analogue fluids in CO₂ convective dissolution experiments (doi 10.1002/2015WR018040)
- 4469** *Xi Chen and Lee Slater*
Methane emission through ebullition from an estuarine mudflat: 1. A conceptual model to explain tidal forcing based on effective stress changes (doi 10.1002/2015WR018058)
- 4486** *Donald O. Rosenberry, Martin A. Briggs, Geoffrey Delin, and Danielle K. Hare*
Combined use of thermal methods and seepage meters to efficiently locate, quantify, and monitor focused groundwater discharge to a sand-bed stream (doi 10.1002/2016WR018808)
- 4504** *András Bárdossy and Sebastian Hörning*
Gaussian and non-Gaussian inverse modeling of groundwater flow using copulas and random mixing (doi 10.1002/2014WR016820)
- 4527** *M. Durand, C. J. Gleason, P. A. Garambois, D. Bjerklie, L. C. Smith, H. Roux, E. Rodriguez, P. D. Bates, T. M. Pavelsky, J. Monnier, X. Chen, G. Di Baldassarre, J.-M. Fiset, N. Flipo, R. P. d. M. Frasson, J. Fulton, N. Goutal, F. Hossain, E. Humphries, J. T. Minear, M. M. Mukolwe, J. C. Neal, S. Ricci, B. F. Sanders, G. Schumann, J. E. Schubert, and L. Vilmin*
An intercomparison of remote sensing river discharge estimation algorithms from measurements of river height, width, and slope (doi 10.1002/2015WR018434)
- 4550** *André Stumpf, Emmanuel Augereau, Christophe Delacourt, and Julien Bonnier*
Photogrammetric discharge monitoring of small tropical mountain rivers: A case study at Rivière des Pluies, Réunion Island (doi 10.1002/2015WR018292)
- 4571** *Long Yang, James A. Smith, Mary Lynn Baeck, and Yan Zhang*
Flash flooding in small urban watersheds: Storm event hydrologic response (doi 10.1002/2015WR018326)
- 4590** *Formetta Giuseppe, Silvia Simoni, Jonathan W. Godt, Ning Lu, and Riccardo Rigon*
Geomorphological control on variably saturated hillslope hydrology and slope instability (doi 10.1002/2015WR017626)

- 4608** *M. S. Bartlett, A. J. Parolari, J. J. McDonnell, and A. Porporato*
Beyond the SCS-CN method: A theoretical framework for spatially lumped rainfall-runoff response (doi 10.1002/2015WR018439)
- 4628** *Anna Bergstrom, Kelsey Jencso, and Brian McGlynn*
Spatiotemporal processes that contribute to hydrologic exchange between hillslopes, valley bottoms, and streams (doi 10.1002/2015WR017972)
- 4646** *B. Abban, A. N. (Thanos) Papanicolaou, M. K. Cowles, C. G. Wilson, O. Abaci, K. Wacha, K. Schilling, and D. Schnoebelen*
An enhanced Bayesian fingerprinting framework for studying sediment source dynamics in intensively managed landscapes (doi 10.1002/2015WR018030)
- 4674** *L. Tarasova, M. Knoche, J. Dietrich, and R. Merz*
Effects of input discretization, model complexity, and calibration strategy on model performance in a data-scarce glacierized catchment in Central Asia (doi 10.1002/2015WR018551)
- 4700** *Francesca Boso and Daniel M. Tartakovsky*
The method of distributions for dispersive transport in porous media with uncertain hydraulic properties (doi 10.1002/2016WR018745)
- 4713** *J. F. Dean, M. Camporese, J. A. Webb, S. P. Grover, P. E. Dresel, and E. Daly*
Water balance complexities in ephemeral catchments with different land uses: Insights from monitoring and distributed hydrologic modeling (doi 10.1002/2016WR018663)
- 4730** *F. Morlando, L. Cimorelli, L. Cozzolino, G. Mancini, D. Pianese, and F. Garofalo*
Shot noise modeling of daily streamflows: A hybrid spectral- and time-domain calibration approach (doi 10.1002/2015WR017613)
- 4745** *Chun-Hsu Su, Justin F. Costelloe, Tim J. Peterson, and Andrew W. Western*
On the structural limitations of recursive digital filters for base flow estimation (doi 10.1002/2015WR018067)
- 4765** *Claudia Rojas-Serna, Laure Lebecherel, Charles Perrin, Vazken Andréassian, and Ludovic Oudin*
How should a rainfall-runoff model be parameterized in an almost ungauged catchment? A methodology tested on 609 catchments (doi 10.1002/2015WR018549)
- 4785** *Cody A. Anderson and Enrique R. Vivoni*
Impact of land surface states within the flux footprint on daytime land-atmosphere coupling in two semiarid ecosystems of the Southwestern U.S. (doi 10.1002/2015WR018016)
- 4801** *Kushan C. Perera, Andrew W. Western, David E. Robertson, Biju George, and Bandara Nawarathna*
Ensemble forecasting of short-term system scale irrigation demands using real-time flow data and numerical weather predictions (doi 10.1002/2015WR018532)
- 4823** *Wei Qi, Chi Zhang, Guangtao Fu, and Huicheng Zhou*
Imprecise probabilistic estimation of design floods with epistemic uncertainties (doi 10.1002/2015WR017663)
- 4845** *David Fuente, Josephine Gakii Gatua, Moses Ikiara, Jane Kabubo-Mariara, Mbutu Mwaura, and Dale Whittington*
Water and sanitation service delivery, pricing, and the poor: An empirical estimate of subsidy incidence in Nairobi, Kenya (doi 10.1002/2015WR018375)
- 4863** *E. K. White, T. J. Peterson, J. Costelloe, A. W. Western, and E. Carrara*
Can we manage groundwater? A method to determine the quantitative testability of groundwater management plans (doi 10.1002/2015WR018474)
- 4883** *Z. Fred Zhang*
Evaluating the long-term hydrology of an evapotranspiration-capillary barrier with a 1000 year design life (doi 10.1002/2015WR018167)
- 4905** *Margaret A. Burns, Holly R. Barnard, Rachel S. Gabor, Diane M. McKnight, and Paul D. Brooks*
Dissolved organic matter transport reflects hillslope to stream connectivity during snowmelt in a montane catchment (doi 10.1002/2015WR017878)
- 4924** *Natan Micheletti and Stuart N. Lane*
Water yield and sediment export in small, partially glaciated Alpine watersheds in a warming climate (doi 10.1002/2016WR018774)
- 4944** *Y. Elshafei, M. Tonts, M. Sivapalan, and M. R. Hipsey*
Sensitivity of emergent sociohydrologic dynamics to internal system properties and external sociopolitical factors: Implications for water management (doi 10.1002/2015WR017944)