

Research Articles

- 9379** *Christopher D. Arp, Benjamin M. Jones, Anna K. Liljedahl, Kenneth M. Hinkel, and Jeffery A. Welker*
Depth, ice thickness, and ice-out timing cause divergent hydrologic responses among Arctic lakes
(doi 10.1002/2015WR017362)
- 9402** *Masoud Babaei, Indranil Pan, and Ali Alkhatib*
Robust optimization of well location to enhance hysteretical trapping of CO₂: Assessment of various uncertainty quantification methods and utilization of mixed response surface surrogates
(doi 10.1002/2015WR017418)
- 9425** *C. Teutschbein, T. Grabs, R. H. Karlsen, H. Laudon, and K. Bishop*
Hydrological response to changing climate conditions: Spatial streamflow variability in the boreal region
(doi 10.1002/2015WR017337)
- 9447** *Patricia Tencaliec, Anne-Catherine Favre, Clémentine Prieur, and Thibault Mathevret*
Reconstruction of missing daily streamflow data using dynamic regression models
(doi 10.1002/2015WR017399)
- 9464** *C. A. Reynolds and S. Krevor*
Characterizing flow behavior for gas injection: Relative permeability of CO₂-brine and N₂-water in heterogeneous rocks
(doi 10.1002/2015WR018046)
- 9490** *M. I. P. de Lima and S. Lovejoy*
Macroweather precipitation variability up to global and centennial scales (doi 10.1002/2015WR017455)
- 9514** *Mina Rahimi, Hedeef I. Essaid, and John T. Wilson*
The role of dynamic surface water-groundwater exchange on streambed denitrification in a first-order, low-relief agricultural watershed (doi 10.1002/2014WR016739)
- 9539** *Xiang Zeng, Tiesong Hu, Lihua Xiong, Zhixian Cao, and Chongyu Xu*
Derivation of operation rules for reservoirs in parallel with joint water demand (doi 10.1002/2015WR017250)
- 9564** *Sarah G. Evans, Shemin Ge, and Sihai Liang*
Analysis of groundwater flow in mountainous, headwater catchments with permafrost
(doi 10.1002/2015WR017732)
- 9577** *A. Fiori, A. Zarlenja, H. Gotovac, I. Jankovic, E. Volpi, V. Cvetkovic, and G. Dagan*
Advection transport in heterogeneous aquifers: Are proxy models predictive? (doi 10.1002/2015WR017118)
- 9595** *Guillaume Pirot, Julien Straubhaar, and Philippe Renard*
A pseudo genetic model of coarse braided-river deposits (doi 10.1002/2015WR017078)
- 9612** *Franziska Pöschke, Jörg Lewandowski, Christof Engelhardt, Konrad Preuß, Martin Oczipka, Thomas Ruhtz, and Georgiy Kirillin*
Upwelling of deep water during thermal stratification onset—A major mechanism of vertical transport in small temperate lakes in spring? (doi 10.1002/2015WR017579)
- 9628** *Matt N. Herod, Martin Suchy, R. Jack Cornett, W. E. Kieser, Ian D. Clark, and Gwyn Graham*
The atmospheric transport of iodine-129 from Fukushima to British Columbia, Canada and its deposition and transport into groundwater (doi 10.1002/2015WR017325)
- 9646** *Anne Sabourin and Benjamin Renard*
Combining regional estimation and historical floods: A multivariate semiparametric peaks-over-threshold model with censored data (doi 10.1002/2015WR017320)
- 9665** *Mahdi Razaz, Kiyosi Kawanisi, Arata Kaneko, and Ioan Nistor*
Application of acoustic tomography to reconstruct the horizontal flow velocity field in a shallow river
(doi 10.1002/2015WR017102)
- 9679** *M. A. Middleton, P. H. Whitfield, and D. M. Allen*
Independent component analysis of local-scale temporal variability in sediment-water interface temperature
(doi 10.1002/2015WR017302)
- 9696** *Aditi Mankad and Andrea Walton*
Accepting managed aquifer recharge of urban storm water reuse: The role of policy-related factors
(doi 10.1002/2015WR017633)
- 9708** *Kenneth D. Adams, Robert M. Negrini, Edward R. Cook, and Seshadri Rajagopal*
Annually resolved late Holocene paleohydrology of the southern Sierra Nevada and Tulare Lake, California
(doi 10.1002/2015WR017850)
- 9725** *Hanne M. L. Kvitsand, Aamir Ilyas, and Stein W. Østerhus*
Rapid bacteriophage MS2 transport in an oxic sandy aquifer in cold climate: Field experiments and modeling
(doi 10.1002/2015WR017863)
- 9746** *John M. Juston, Robert H. Kadlec, William F. DeBusk, Mike J. Jerauld, and Thomas A. DeBusk*
Persistence of legacy soil P and elevated background water P concentrations in Water Conservation Area 2A, a northern Everglades wetland (doi 10.1002/2015WR017809)
- 9763** *Subhrendu Gangopadhyay, Gregory J. McCabe, and Connie A. Woodhouse*
Beyond annual streamflow reconstructions for the Upper Colorado River Basin: A paleo-water-balance approach (doi 10.1002/2015WR017283)

- 9775** *Joel A. Biederman, Andrew J. Somor, Adrian A. Harbold, Ethan D. Gutmann, David D. Breshears, Peter A. Troch, David J. Gochis, Russell L. Scott, Arjan J. H. Meddens, and Paul D. Brooks*
Recent tree die-off has little effect on streamflow in contrast to expected increases from historical studies
(doi 10.1002/2015WR017401)
- 9790** *Ward E. Sanford, Gerolamo Casile, and Karl B. Haase*
Dating base flow in streams using dissolved gases and diurnal temperature changes
(doi 10.1002/2014WR016796)
- 9804** *Ali Ebrahimi and Dani Or*
Hydration and diffusion processes shape microbial community organization and function in model soil aggregates
(doi 10.1002/2015WR017565)
- 9828** *T. Turkeltaub, D. Kurtzman, E. E. Russak, and O. Dahan*
Impact of switching crop type on water and solute fluxes in deep vadose zone
(doi 10.1002/2015WR017612)
- 9843** *Omer Yetemen, Erkan Istanbulluoglu, and Alison R. Duvall*
Solar radiation as a global driver of hillslope asymmetry: Insights from an ecogeomorphic landscape evolution model
(doi 10.1002/2015WR017103)
- 9862** *Frouke Hoogland, Peter Lehmann, and Dani Or*
The formation of viscous limited saturation zones behind rapid drainage fronts in porous media
(doi 10.1002/2015WR016980)
- 9891** *Bridget R. Scanlon, Zizhan Zhang, Robert C. Reedy, Donald R. Pool, Himanshu Save, Di Long, Jianli Chen, David M. Wolock, Brian D. Conway, and Daniel Winester*
Hydrologic implications of GRACE satellite data in the Colorado River Basin
(doi 10.1002/2015WR018090)
- 9904** *Stefan Finsterle*
Practical notes on local data-worth analysis
(doi 10.1002/2015WR017445)
- 9925** *Robert Wright, Edo Abraham, Panos Parpas, and Ivan Stoianov*
Control of water distribution networks with dynamic DMA topology using strictly feasible sequential convex programming
(doi 10.1002/2015WR017466)
- 9942** *Judith Yue Li, Amalia Kokkinaki, Hojat Ghorbanidehno, Eric F. Darve, and Peter K. Kitanidis*
The compressed state Kalman filter for nonlinear state estimation: Application to large-scale reservoir monitoring
(doi 10.1002/2015WR017203)
- 9964** *James A. Smith and Mary Lynn Baeck*
"Prophetic vision, vivid imagination": The 1927 Mississippi River flood
(doi 10.1002/2015WR017927)
- 9995** *Conrad Wasko, Alexander Pui, Ashish Sharma, Rajeshwar Mehrotra, and Erwin Jeremiah*
Representing low-frequency variability in continuous rainfall simulations: A hierarchical random Bartlett Lewis continuous rainfall generation model
(doi 10.1002/2015WR017469)
- 10008** *A. A. Ameli, J. R. Craig, and J. J. McDonnell*
Are all runoff processes the same? Numerical experiments comparing a Darcy-Richards solver to an overland flow-based approach for subsurface storm runoff simulation
(doi 10.1002/2015WR017199)
- 10029** *Milad Hooshyar, Seoyoung Kim, Dingbao Wang, and Stephen C. Medeiros*
Wet channel network extraction by integrating LiDAR intensity and elevation data
(doi 10.1002/2015WR018021)
- 10047** *Wei-Jie Wang, Wen-Xin Huai, Sally Thompson, and Gabriel G. Katul*
Steady nonuniform shallow flow within emergent vegetation
(doi 10.1002/2015WR017658)
- 10065** *S. L. Davidson, L. G. MacKenzie, and B.C. Eaton*
Large wood transport and jam formation in a series of flume experiments
(doi 10.1002/2015WR017446)

Commentary

- 10078** *Stacey A. Archfield, Martyn Clark, Berit Arheimer, Lauren E. Hay, Hilary McMillan, Julie E. Kiang, Jan Seibert, Kirsti Hakala, Andrew Bock, Thorsten Wagener, William H. Farmer, Vazken Andréassian, Sabine Attinger, Alberto Viglione, Rodney Knight, Steven Markstrom, and Thomas Over*
Accelerating advances in continental domain hydrologic modeling
(doi 10.1002/2015WR017498)

Technical Reports: Data

- 10092** *Nicholas E. Wayand, Adam Massmann, Colin Butler, Eric Keenan, John Stemberis, and Jessica D. Lundquist*
A meteorological and snow observational data set from Snoqualmie Pass (921 m), Washington Cascades, USA
(doi 10.1002/2015WR017773)