

Review Article

- 3837** *Andrew Binley, Susan S. Hubbard, Johan A. Huisman, André Revil, David A. Robinson, Kamini Singha, and Lee D. Slater*

The emergence of hydrogeophysics for improved understanding of subsurface processes over multiple scales* (doi 10.1002/2015WR017016)

***This article is part of a Special Section—The 50th Anniversary of Water Resources Research**

Research Articles

- 3867** *Caleb M. DeChant and Hamid Moradkhani*

On the assessment of reliability in probabilistic hydrometeorological event forecasting (doi 10.1002/2014WR016617)

- 3884** *Gene-Hua Crystal Ng, David R. Bedford, and David M. Miller*

Identifying multiple time scale rainfall controls on Mojave Desert ecohydrology using an integrated data and modeling approach for *Larrea tridentata* (doi 10.1002/2015WR017240)

- 3900** *Tibebu B. Ayalew, Witold F. Krajewski, and Ricardo Mantilla*

Analyzing the effects of excess rainfall properties on the scaling structure of peak discharges: Insights from a mesoscale river basin (doi 10.1002/2014WR016258)

- 3922** *Giuseppe Gambolati and Pietro Teatini*

Geomechanics of subsurface water withdrawal and injection* (doi 10.1002/2014WR016841)

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- 3956** *Joshua M. Bishop, Michael V. Callaghan, Edwin E. Cey, and Larry R. Bentley*

Measurement and simulation of subsurface tracer migration to tile drains in low permeability, macroporous soil (doi 10.1002/2014WR016310)

- 3982** *Jonathan M. Duncan, Lawrence E. Band, Peter M. Groffman, and Emily S. Bernhardt*

Mechanisms driving the seasonality of catchment scale nitrate export: Evidence for riparian ecohydrologic controls (doi 10.1002/2015WR016937)

- 3998** *Alejandro Tejedor, Anthony Longjas, Ilya Zaliapin, and Efi Foufoula-Georgiou*

Delta channel networks: 1. A graph-theoretic approach for studying connectivity and steady state transport on deltaic surfaces*[†] (doi 10.1002/2014WR016577)

***Companion to Tejedor et al. [2015], doi:10.1002/2014WR016604.**

[†]This article is part of a Special Section—Connectivity, Non-Linearity, and Regime Transitions in Future Earthscapes

- 4019** *Alejandro Tejedor, Anthony Longjas, Ilya Zaliapin, and Efi Foufoula-Georgiou*

Delta channel networks: 2. Metrics of topologic and dynamic complexity for delta comparison, physical inference, and vulnerability assessment*[†] (doi 10.1002/2014WR016604)

***Companion to Tejedor et al. [2015], doi:10.1002/2014WR016577.**

[†]This article is part of a Special Section—Connectivity, Non-Linearity, and Regime Transitions in Future Earthscapes

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Isotope-based Fluvial Organic Carbon (ISOFLOC) Model: Model formulation, sensitivity, and evaluation (doi 10.1002/2015WR016999)

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- 4086** *Christopher V. Henri, Daniel Fernández-García, and Felipe P. J. de Barros*
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- 4391** *Olya Skulovich, Russell Bent, David Judi, Lina Sela Perelman, and Avi Ostfeld*
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- 4770** *Giuliano Di Baldassarre, Alberto Viglione, Gemma Carr, Linda Kuil, Kun Yan, Luigia Brandimarte, and Günter Blöschl*
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- 4840** *Andrea Rinaldo, Paolo Benettin, Ciaran J. Harman, Markus Hrachowitz, Kevin J. McGuire, Ype van der Velde, Enrico Bertuzzo, and Gianluca Botter*
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- 4858** *Behzad Ataie-Ashtiani*
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- 4859** *María Pool, Vincent E. A. Post, and Craig T. Simmons*
Reply to comment by Behzad Ataie-Ashtiani on ‘Effects of tidal fluctuations on mixing and spreading in coastal aquifers: Homogeneous case’ (doi 10.1002/2015WR017111)