

## Commentary

- 5190** *Alan F. Hamlet*  
New Observed Data Sets for the Validation of Hydrology and Land Surface Models in Cold Climates  
(<https://doi.org/10.1029/2018WR023123>)

## Research Articles

- 5198** *Michael L. Barnes, Claire Welty, and Andrew J. Miller*  
Impacts of Development Pattern on Urban Groundwater Flow Regime (<https://doi.org/10.1029/2017WR022146>)
- 5213** *Alecia Weisman, Sudeep Chandra, Eliška Rejmánková, and Emily Carlson*  
Effects of Nutrient Limitations and Watershed Inputs on Community Respiration in a Deep, Tropical Lake: Comparison of Pelagic and Littoral Habitats\* (<https://doi.org/10.1029/2017WR021981>)  
\*This article is part of a Special Section—Responses to environmental change in aquatic mountain ecosystems
- 5225** *Michael R. Rosen, Gilberto Binda, Claire Archer, Andrea Pozzi, Alessandro M. Michetti, and Paula J. Noble*  
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- 5245** *David T. Liefert, Bryan N. Shuman, Andrew D. Parsekian, and Jason J. Mercer*  
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- 5264** *Charles Rougé, Amaury Tilmant, Ben Zaitchik, Amin Dezfuli, and Maher Salman*  
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- 5282** *Wanshu Nie, Benjamin F. Zaitchik, Matthew Rodell, Sujay V. Kumar, Martha C. Anderson, and Christopher Hain*  
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- 5300** *Maik Kecinski and Kent D. Messer*  
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- 5327** *Rémi Dupas, Camille Minaudo, Gérard Gruau, Laurent Ruiz, and Chantal Gascuel-Odoux*  
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- 5341** *Adam J. Hawkins, Matthew W. Becker, and Jefferson W. Tester*  
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- 5359** *Taehee Hwang, Katherine L. Martin, James M. Vose, David Wear, Brian Miles, Yuri Kim, and Lawrence E. Band*  
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- 5376** *A. L. Gavin, S. J. Nelson, A. J. Klemmer, I. J. Fernandez, K. E. Strock, and W. H. McDowell*  
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- 5436** *Nicola Balbarini, Vinni Rønde, Pradip Maurya, Gianluca Fiandaca, Ingelise Møller, Knud Erik Klint, Anders V. Christiansen, Philip J. Binning, and Poul L. Bjerg*  
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- 5504** *Shinichiro Nakamura and Taikan Oki*  
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- 5763** *Hosein Alizadeh, S. Jamshid Mousavi, and Kumaraswamy Ponnambalam*  
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- 5785** *G. Ceriotti, L. Guadagnini, G. Porta, and A. Guadagnini*  
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- 5856** *Xiaoqiang Yang, Seifeddine Jomaa, Matthias Zink, Jan H. Fleckenstein, Dietrich Borchardt, and Michael Rode*  
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