Publications on the Panola Mountain Research Watershed

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# In Review/Submitted

# In Press

# 2018

Aulenbach, B.T., and Peters, N.E., 2017, Quantifying climate-related interactions in shallow and deep storage and evapotranspiration in a forested, seasonally water-limited watershed in the Southeastern United States, Water Resources Research, 25 p. doi:10.1002/2017WR020964, [IP-086326]

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Aulenbach, B.T., 2017, Data for estimating monthly water budgets at Panola Mountain Research Watershed, Stockbridge, Ga., water years 1986-2015. U.S. Geological Survey data release, doi: [10.5066/F7XS5SNV](https://doi.org/10.5066/F7XS5SNV). [IP-085355]

Aulenbach, B.T., and Peters, N.E., 2017, The roles of shallow and deep storage on drought at a small forested, water-limited watershed near Atlanta, Georgia [abs.]. Abstract presented at the Georgia Water Resources Conference, Athens Georgia, April 19–20, 2017. [IP-083755]

# 2016

Aulenbach, B.T., Burns, D.A., Shanley, J.B., Yanai, R.D., Bae, K., Wild, A., Yang, Y., and Yi, D., 2016, Approaches to stream solute load estimation for solutes with varying dynamics from five diverse small watersheds. *Ecosphere*. 7(6):22 p. doi:10.1002/ecs2.1298 [IP-065579]

Aulenbach, B.T., and Peters, N.E., 2016, The Roles of Shallow and Deep Groundwater Storage During Drought at Panola Mountain Research Watershed, Georgia, U.S.A [abs.]. Abstract presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec. [IP-078369]

Ghosh, D.K., Wang, D., and Zhu, T., 2016. On the transition of base flow recession from early stage to late stage. Advances in Water Resources. 88:8–13. <http://dx.doi.org/10.1016/j.advwatres.2015.11.015>

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Appels, W.M., Graham, C.B., Freer, J.E., and McDonnell, J.J. 2015, Factors affecting the spatial pattern of bedrock groundwater recharge at the hillslope scale. *Hydrological Processes* 29(21):4594–4610. DOI: 10.1002/hyp.10481.

Aulenbach, B.T., and Huntington, T.G., 2015, Hydrologic and Climatic Variability in and Modeling of Streamwater Sulfate Concentrations at Panola Mountain Research Watershed, Georgia, U.S.A. [abs.]. Abstract H33F-1686 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec. [IP-067849]

Aulenbach, B.T., Peters, N.E., and Freer, J.E. 2015, Monthly water budgets at Panola Mountain Research Watershed, Georgia with some implications for climatic change [abs.]. Georgia Water Resources Conference, April 28–29, 2015, Athens, Georgia. [IP-062486]

Aulenbach, B.T., Peters, N.E., and Freer, J.E. 2015, Water-Limiting Conditions Based on Monthly Water Balances and Potential Evapotranspiration at Panola Mountain Research Watershed, Georgia, U.S.A. [abs.]. Fifth Interagency Conference on Research in the Watersheds, March 2–5, 2015, Charleston, South Carolina. [IP-060928]

McKee, A. and Aulenbach, B.T., 2015, Dendrochronological assessment of drought severity indices for Panola Mountain Research Watershed, Georgia, U.S.A. [abs.]. Abstract GC41A-1064 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec. [IP-067555]

Riley, J.W. and Aulenbach, B.T., 2015, Evaluation of Soil Moisture, Storm Characteristics, and Their Influence on Storm Runoff and Water Yield at the Panola Mountain Research Watershed, Georgia, U.S.A. [abs.]. Abstract H43I-1662 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec. [IP-067847]

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van Meerveld, H.J., Seibert, J., and Peters, N.E. 2015, Hillslope–riparian-stream connectivity and flow directions at the Panola Mountain Research Watershed. *Hydrol. Process.* 29(16):3556–3574. DOI: 10.1002/hyp.10508

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Aulenbach, B.T., Saraceno, J.F., and Shanley, J.B. 2014, Variability and hysteresis in streamwater dissolved organic carbon during hydrologic events and its implications on hydrologic flow paths at Panola Mountain Research Watershed, Georgia, U.S.A. [abs.]. Abstract B33F-0251 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec. [IP-058807]

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Shanley, J.B., Saraceno, J.F., Dornblaser, M.M., Aulenbach, B.T., Mast, M.A., Clow, D.W., Walker, J.F., Hood, K., Wickland, K.P., Pellerin, B.A., Aiken, G.R., Crawford, and J., Striegl, R. 2014, Making sense of sensors: stream carbon flux determination at the five USGS WEBB watersheds [abs.]. Abstract B44D-08 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec. [IP-XXXXXX]

# 2013

Appels, W.M., Graham, C.B., and McDonnell, J.J. 2013, Groundwater recharge patterns on hillslopes: exploring the role of soil depth, bedrock permeability, and lateral flow [abs.]. Abstract H32D-05 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Aulenbach, B.T., Burns, D.A., Shanley, J.B., Yanai, R.D., Bae, K., Wild, A., Yang, Y., and Dong, Y. 2013, Uncertainty of streamwater solute fluxes in five contrasting headwater catchments including model uncertainty and natural variability (Invited) [abs.]. Abstract B24B-03 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec. [IP-050308]

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Wang, D. and Ghosh, D.K. 2013, Long-term climate controls on base flow recession behavior at the event scale [abs.]. Abstract H11A-1150 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

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Clark, M., Rupp, D., Woods, R., Tromp-van Meerveld, H.J., Peters, N.E., and Freer, J., 2009, Consistency between hydrological models and field observations: linking processes at the hillslope scale to hydrological responses at the watershed scale. *Hydrological Processes* 23(2): 311-319. DOI: 10.1002/hyp.7154. [IP-004196]

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