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Educational Experience

<u>Docent</u>	Stockholm University (Stockholm, Sweden) Physical Geography with emphasis on Hydrology	Jun. 2011
<u>PhD</u>	Cornell University (Ithaca, New York, USA) Department of Biological and Environmental Engineering Dissertation: Incorporating the spatial structure of shallow water tables into hydrology	Mar. 2006
<u>MS</u>	Cornell University (Ithaca, New York, USA) Department of Biological and Environmental Engineering Thesis: Using a topographic index to distribute variable source area runoff predicted with the SCS-curve number equation	Jan. 2003
<u>BS</u>	Purdue University (West Lafayette, Indiana, USA) Department of Agricultural and Biological Engineering Major Focus in Environmental and Natural Resources Engineering, Minor in Mathematics	May 2001

Professional Experience

Freshwater Scientist The Nature Conservancy, New Jersey Office	Aug. 2017 to Present
Professor in Hydrology Department of Physical Geography, Stockholm University <i>with the following active working affiliations:</i> Bolin Centre for Climate Research, Stockholm University, Sweden Navarino Environmental Observatory, Messenia, Greece	Apr. 2016 to Present
Associate Professor/Senior Lecturer in Hydrology Department of Physical Geography and Quaternary Geology, Stockholm University	Jan. 2010 to May 2016
Postdoctoral Research Associate Bolin Centre for Climate Research, Stockholm University	Jan. 2008 to Dec. 2009
Postdoctoral Research Associate Surface Water Hydrology Group, Hydrology and Water Resources, University of Arizona	Apr. 2006 to Jan. 2008
Graduate Research and Teaching Assistant Soil and Water Lab, Biological and Environmental Engineering, Cornell University	Sep. 2001 to Apr. 2006
Research Assistant U.S. Department of Agriculture, National Soil Erosion Research Lab	May 2000 to Sep. 2001

Professional Activities and Involvement

Associate Editor

Hydrological Science Journal

Reviewer (those with more than 2 times per year)

Water Resources Research, Journal of Hydrology, Hydrological Processes, Hydrology and Earth Systems Science, Journal of Hydrology – Regional Studies

International Proposal Reviewer

NSF (US), NERC (UK), Fonds National de la Recherche (Luxembourg), Czech Science Foundation (Czech Republic), Netherlands Organisation for Scientific Research, LEaDing Fellows (The Netherlands), German Academic Exchange Service (Germany), Swiss National Science Foundation (Switzerland), Research Council of Norway (Norway), European Research Council (EU)

Professional Memberships

American Geophysical Union, European Geosciences Union, International Association of Hydrological Sciences, American Society of Agricultural and Biological Engineers, Alpha Epsilon, Tao Beta Pi, Gamma Sigma Delta

Awards and Fellowships

MG Anderson Award – Hydrological Processes Outstanding Paper of the Year (2016), Axel Wenner-Grens Stiftelse sabbatsstipendium (2016), Ivar Bendixsons stipendiefond för docenter (2012), BBCC Poster awards in Innovation and Cross-cutting Research (2010), Stiftelsen Oscar af Ugglas travel grant (2009), NSF-IGERT Vespucci Summer School (2005), American Scandinavian Foundation Fellow (2004-2005)

Committee and Board Memberships

Program Coordinator, Hydrology and Water Resources MSc Program (2014-present)
Navarino Environmental Observatory - Wetland Network Steering Committee (2012-present)
Departmental Board, Department of Physical Geography and Quaternary Geology (2012-2014)
Budget Committee, Department of Physical Geography and Quaternary Geology (2012-2014)

Conferences and Workshops

Selected International Conference Sessions Convened

Citizen Science for Sustainability, Mountains in a Changing World, Kathmandu, Nepal 2017.
Sida/VR Development Research Conference: Establishing participatory processes in ecosystem-based agricultural management strategies. Stockholm, 2016. Co-convenor with S. Nyström
AGU session H47: From pores to catchments: Coupling hydrologic concepts and models across multiple scales. Fall 2010. Co-convenor with R. Mohtar, J. Ascough
EGU session HS4.4: Observational hydrology: Snap-shot sampling of streams and catchments. Spring 2010. Co-convenor with J. O. Skøien, R. Woods
AGU session H23: Catchment Processes and Heterogeneity at Multiple Scales. Fall 2008. Co-convenor with D. Tetzlaff, K. McGuire, H. Laudon, S. Carey, J. McNamara
EGU session HS10.18: Linking catchment hydrological and biogeochemical processes across spatial scales. Spring 2008. Co-convenor with H. Laudon

Selected Workshops Organized

Ensuring disaster risk reduction via sustainable wetland development in Zambia, June 8-9, 2015, Stockholm, Sweden.
The Next Generation of LiDAR Analysis for Critical Zone Research, May 12-14, 2014, Boulder, CO. Co-organized with A. Harpold and J. Marshall
Water as the mirror of landscapes: How useful a hypothesis for resource management?, March 28-29, 2012. Uppsala, Sweden. Co-organized with K. Bishop and H. Dahlke

Selected Recent Research Grants

- Unintended consequences of more effective use of water in tropical agricultural systems – Scaling from plots to landscapes with data-driven hydrological and biogeochemical models, BBCC, S. Manzoni (PI), S.W. Lyon et al. (1.251M SEK) 2018-2019.
- Water Management and Climate Change in the Focus of International Master Programs (WaterMas), EU Erasmus+, F. Reinstorf, S.W. Lyon, et al. (753k Euro) 2018-2019.
- Permafrost thaw impacts on Arctic river flows, Netherlands Polar Programme, NWO, Y. van der Velde (PI), S.W. Lyon, et al. 2017-2020.
- Agricultural Water Innovations in the Tropics (AgWIT), Water Joint Programming Initiative (JPI) ERA-NET Waterworks, M. Johnson (PI), S.W. Lyon, et al. (941k EURO) 2017-2019.
- Modernizing Nepal's Groundwater Resources, Swedish Research Council (VR), S.W. Lyon (PI), S. Shrestha, N. van de Giesen (1.185M SEK). 2017-2019.
- Quantifying the trade-offs between ecosystem service provision and water management in rice systems, VR, S. Manzoni (PI), S.W. Lyon, et al. (5.344M SEK). 2017-2019.
- Using the state-of-the-science to close the policy-practice gap in the Baltic Sea ecoregion, Stockholm University (SU) Planning Grant, S.W. Lyon (PI), S. Kratzer, M. McCrackin, M. Rhinard (100k SEK). 2016.
- Scaling Carbon-use efficiency from the organism to the global scale, Bolin Centre for Climate Research (BBCC), S. Manzoni (PI), S.W. Lyon, et al. (360k SEK). 2016-2017.
- A framework for improving water resources data using hydraulic modelling, The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS), I. Westerberg (co-PI), S.W. Lyon (co-PI), K. Beven (3.0M SEK). 2016-2018.
- Linking Public-Private Partnership to Secure Sustainable Water Resources Management in the Kilombero-River Basin, Swedish International Development Agency (SIDA), S.W. Lyon (PI), J. Nobert (7.9M SEK) 2015-2020.
- Ensuring disaster risk reduction via sustainable wetland development in Zambia, S.W. Lyon (PI), S. Nyström, R. Lindborg, Swedish Secretariat for Environmental Earth System Sciences, (90k SEK) 2015.
- The invisible carbon - an early indicator of ecosystem change!, FORMAS, R. Giesler (PI), S.W. Lyon, et al. (3.0M SEK) 2015-2017 & VR (3.2M SEK) 2014-2017.
- LiDAR 2.0: better utilization of current and next generation LiDAR data, Stiftelsen för internationallsering av högre utbildning och forskning, S.W. Lyon (PI), A. Harpold (140k SEK) 2013-2014.
- Water resources effects of land-water management in Tanzania, Africa, SIDA, S.W. Lyon (PI), et al. (2.4M SEK) 2012-2014.
- Improved streamflow and flood monitoring using remotely sensed LiDAR data, VR, S.W. Lyon (PI), H. Laudon, M. Nathansson (2.2M SEK) 2012-2014.
- Cross-scale modeling of coupled hydrological-permafrost interactions and carbon transport in a changing climate, BBCC, S.W. Lyon (PI), et al. (1.4M SEK) 2012-2014.
- Modeling permafrost spatial distributions and thawing rates in arctic/sub-arctic Sweden using recession flow analysis, Sveriges geologiska undersökning, S.W. Lyon (PI), G. Destouni (1.14M SEK) 2010-2012.

Publications

Peer-Reviewed Journals (h-index = 23 Web of Science; 30 Google Scholar)

- (93) Senkondo, W., J. Tuwa, A. Koutsouris, S.W. Lyon (2017) Estimating Aquifer Transmissivity Using the Recession-Curve-Displacement Method in Tanzania's Kilombero Valley, *Water*, 9(12), 948; doi:10.3390/w9120948
- (92) Koutsouris, A.J., J. Seibert, S.W. Lyon (2017) Utilization of Global Precipitation Datasets in Data Limited Regions: A Case Study of Kilombero Valley, Tanzania. *Atmosphere*, 8(12), 246, doi:10.3390/atmos8120246
- (91) Matti, B., H.E. Dahlke, B. Dieppois, D.M. Lawler, S.W. Lyon (2017) Flood seasonality across Scandinavia – Evidence of a shifting hydrograph? *Hydrological Processes*, 31(24), 4353-4370. 10.1002/hyp.11365
- (90) Thorslund, J., J. Jarsjö, F. Jaramillo, J. Jawitz, S. Manzoni, N.B. Basu, S. Chalov, M. Cohen, I. Creed, R. Goldenberg, A. Hylin, Z. Kalantari, A. Koussis, S. Lyon, K. Mazi, J. Mård, K. Persson, J. Pietroń, C. Prieto, A. Quin, K. Van Meter, G. Destouni (2017) Wetlands as large-scale nature-based solutions: status and challenges for research, engineering and management, *Ecological Engineering*, in press.
- (89) Karlsson, C., Z. Kalantari, U. Mörtberg, B. Olofsson, S.W. Lyon (2017) Natural hazard susceptibility assessment for road planning using spatial multi-criteria analysis, *Environmental Management*, 60, 5, 823-851. Doi:10.1007/s00267-017-0912-6.
- (88) Lyon, S.W., K. King, O. Polpanich, G. Lacombe (2017) Assessing hydrologic changes across the Lower Mekong Basin, *Journal of Hydrology: Regional Studies*, 12, 303-314, <http://dx.doi.org/10.1016/j.ejrh.2017.06.007>.
- (87) Polpanich, O., S.W. Lyon, C. Krittasudthacheewa, A.L. Bush, E. Kemp-Benedict (2017) Modeling impacts of development on water resources in the Huai Sai Bat Sub-basin of Northeastern Thailand with a participatory approach, *International Journal of Water Resources Development*, doi: 10.1080/07900627.2017.1322940.
- (86) Mbanguka, R.P., S.W. Lyon, K. Holmgren, M.G. Lopez, J. Jarsjö (2016) Water Balance and Level Change of Lake Babati, Tanzania: Sensitivity to Hydroclimatic Forcings, *Water*, 8(12), 572, doi:10.3390/w8120572.
- (85) Winterdahl, M., M. Wallin, R.H. Karlsen, H. Laudon, M. Öquist, S.W. Lyon (2016) Decoupling of carbon dioxide and dissolved organic carbon in boreal headwater streams, *Journal of Geophysical Research - Biogeosciences*, 121, 2630-2651, doi:10.1002/2016JG003420.
- (84) Michielsen, A., Z. Kalantari, S.W. Lyon, E. Liljegren (2016) Predicting and Communicating Flood Risk of Transport Infrastructure based on Watershed Characteristics, *Journal of Environmental Management*, 182, 505-518, <http://dx.doi.org/10.1016/j.jenvman.2016.07.051>.
- (83) Lam, N., J.W. Kean, S.W. Lyon (2016) Modeling streamflow from coupled airborne laser scanning and acoustic Doppler current profiler data, *Hydrology Research*, in press.
- (82) Lyon, S.W., E.J. Jantze, H.E. Dahlke, F. Jaramillo, M. Winterdahl (2016) Why monitor carbon in high-alpine streams?, *Geografiska Annaler: Series A, Physical Geography*, 98, 237-245. doi:10.1111/geoa.12136.
- (81) Rafiee, M., S.W. Lyon, B. Zahraie, G. Destouni, N. Jaafarzadeh (2016) Optimal Wastewater Loading under Conflicting Goals and Technology Limitations in a Riverine System, *Water Environment Research*, 89 (3), 211-220.

- (80) Bogaart, P.W., Y. van der Velde, S.W. Lyon, S.C. Dekker (2016) Stream flow recession patterns can help unravel the role of climate and humans in landscape co-evolution, *Hydrological and Earth Systems Science*, 20, 1413–1432, doi:10.5194/hess-20-1413-2016.
- (79) Matti, B., H.E. Dahlke, S.W. Lyon (2016) On the variability of cold region flooding, *Journal of Hydrology*, 534, 669-679, doi:10.1016/j.jhydrol.2016.01.055.
- (78) Sjöberg, Y., E. Coon, A.B.K. Sannel, R. Pannetier, D. Harp, A. Frampton, S.L. Painter, S.W. Lyon (2016) Thermal effects from groundwater flow through a subarctic fen – a case study based on field observations and numerical modeling, *Water Resources Research*, 52, 1591–1606, doi:10.1002/2015WR017571.
- (77) Juston, J., S.W. Lyon, G. Destouni (2016) Data-driven nutrient-landscape relationships across region and scale, *Water Environment Research*, 88(11), 2023-2031, <https://doi.org/10.2175/106143016X14504669768255>.
- (76) Nickman, A., P. Jansson, S.W. Lyon, B. Olofsson (2016) Simulating the impact of roads on hydrological responses: examples from Swedish terrain, *Hydrology Research*, 47(4) 767-781, DOI: 10.2166/nh.2016.030.
- (75) Winterdahl, M., H. Laudon, S.W. Lyon, C. Pers, K. Bishop (2016) Sensitivity of stream dissolved organic carbon to temperature and discharge: implications for future climates, *Journal of Geophysical Research - Biogeosciences*, 121(1), 126-144.
- (74) Dahlke, H.E., M.T. Walter, S.W. Lyon, A. Sharma, S. Leung, A. Williamson (2015) Using concurrent DNA tracer injections to infer glacial flow pathways, *Hydrological Processes*, 29, 5257-5274, doi:10.1002/hyp.10679.
- (73) Koutsouris, A.J., D. Chen, S.W. Lyon (2016) Comparing global precipitation datasets in Eastern Africa: a case study of Kilombero Valley, Tanzania, *International Journal of Climatology*, 36, 2000-2014, doi:10.1002/joc.4476.
- (72) Harpold, A.A., J.A. Marshall, S.W. Lyon, T.B. Barnhart, B. Fisher, M. Donovan, K.M. Brubaker, C.J. Crosby, N.F. Glenn, C.L. Glennie, P.B. Kirchner, N. Lam, K.D. Mankoff, J.L. McCreight, N.P. Molotch, K.N. Musselman, J. Pelletier, T. Russo, H. Sangireddy, Y. Sjöberg, T. Swetnam, N. West (2015) Laser Vision: Lidar as a Transformative Tool to Advance Critical Zone Science, *Hydrological and Earth Systems Science*, 19, 2881-2897, doi:10.5194/hess-19-2881-2015.
- (71) Lyon, S.W., M. Nathanson, N. Lam, H. Dahlke, M. Rutzinger, J.W. Kean, H. Laudon (2015) Can low-resolution airborne laser scanning data be used to model stream rating curves?, *Water*, 7, 1324-1339, doi:10.3390/w7041324.
- (70) Sjöberg, Y., P. Marklund, R. Pettersson, S. W. Lyon (2015) Geophysical mapping of palsa peatland permafrost, *The Cryosphere*, 9, 465-478.
- (69) Jantze, E.J., H. Laudon, H.E., Dahlke, S.W. Lyon (2015), Spatial variability of dissolved organic and inorganic carbon in sub-arctic headwater streams. *Arctic, Antarctic, and Alpine Research*, 47(3), 529-546.
- (68) Lam, N., M. Nathanson, N. Lundgren, R. Rehnström, S.W. Lyon (2015), A cost-effective laser scanning method for mapping stream channel geometry and roughness. *Journal of the American Water Resources Association*, 1-10. DOI: 10.1111/1752-1688.12299.

- (67) Bodil, E., G. Destouni, A. Angerbjörn, S. Borgström, E. Boyd, S. Cousins, L. Dalén, J. Ehrlén, M. Ermold, P. Hambäck, J. Hedlund, K. Hylander, F. Jaramillo, V. Lagerholm, S. Lyon, H. Moor, B. Nykvist, M. Pasanen-Mortensen, J. Plue, C. Prieto, Y. van der Velde, R. Lindborg (2015), Interacting effects of change in climate, human population, land use and water use on biodiversity and ecosystem services. *Ecology and Society*, 20(1), 23. <http://dx.doi.org/10.5751/ES-07145-200123>.
- (66) van der Velde, Y., I. Heidbüchel, S.W. Lyon, L. Nyberg, A. Rodhe, K. Bishop, P.A. Troch (2015), Consequences of mixing assumptions for time-variable travel time distributions, *Hydrological Processes*, 29(16), 3460-3474, doi: 10.1002/hyp.10372.
- (65) Kalantari, Z., S.W. Lyon, P-E. Jansson, J. Stolte, H.K. French, L. Folkesson, M. Sassner (2014), Modeller subjectivity and calibration impacts on hydrological model applications: an event-based comparison for a road-adjacent catchment in South-East Norway, *Science of The Total Environment*, 502, 315-329, doi:10.1016/j.scitotenv.2014.09.030.
- (64) Lyon, S.W., Meidani, R., van der Velde, Y., Dahlke, H.E., Swaney, D.P., Mörth, C.M., Humborg, C. (2015), Seasonal and regional patterns in performance for a Baltic Sea drainage basin hydrologic model. *Journal of the American Water Resources Association*. 51(2), 550-566. DOI: 10.1111/jawr.12268.
- (63) Lyon, S.W., Koutsouris, A., Scheibler, F., Jarsjö, J., Mbanguka, R., Tumbo, M., Robert, K.K., Sharma, A.N., van der Velde, Y. (2014), Interpreting characteristic drainage timescale variability across Kilombero Valley, Tanzania, *Hydrological Processes*, 29, 1912-1924. doi: 10.1002/hyp.10304.
- (62) Harpold, A., Lyon, S.W., Marshall, J. (2014), Using LiDAR to Advance Critical Zone Science, *Eos Trans. AGU*, 95(40), 364.
- (61) Archibald, J., Buchanan, B., Fuka, D.R., Georgakakos, C.B., Lyon, S.W., Walter, M.T. (2014), A simple, regionally parameterized model for predicting nonpoint source areas in the Northeastern US, *Journal of Hydrology: Region Studies*, 1, 74-91, doi:10.1016/j.ejrh.2014.06.003.
- (60) Saaltink, R., van der Velde, Y., Dekker, S., Lyon, S.W., Dahlke, H.E. (2014), Societal, Land Cover and Climatic controls on river nutrient flows into the Baltic Sea, *Journal of Hydrology - Regional Studies*, 1, 44-56, <http://dx.doi.org/10.1016/j.ejrh.2014.06.001>.
- (59) Klein, J., Ekstedt, K., Walter, M.T., Lyon, S.W. (2015), Modeling potential water resource impacts of Mediterranean tourism in a changing climate, *Environmental Modeling and Assessment*, 20(2), 117-128.
- (58) Tessema, S.M., S.W. Lyon, S.G. Setegn, U. Mörtberg (2014), Effects of different retention parameter estimation methods on the prediction of surface runoff using the SCS curve number method, *Water Resources Management*, 28, 3241-3254, doi: 10.1007/s11269-014-0674-3.
- (57) Rafiee, M., A.M.A. Ali, H. Moazed, S.W. Lyon, N. Jaafarzadeh, B. Zahraie (2014), A Case Study of Water Quality Modeling of the Gargar River, Iran, *Journal of Hydraulic Structures*, 1(2), 10-22.
- (56) Kalantari, Z., A. Briel, S.W. Lyon, B. Olofsson, L. Folkesson (2014), On the utilization of hydrological modelling for road structure design under climate and land use change, *Science of the Total Environment*, 475, 97-103, <http://dx.doi.org/10.1016/j.scitotenv.2013.12.114>.

- (55) Mård Karlsson, J., S.W. Lyon, G. Destouni (2014), Temporal Behavior of Lake Size-Distribution in a Thawing Permafrost Landscape in Northwestern Siberia, *Remote Sensing*, 6, 621-636, doi: 10.3390/rs6010621.
- (54) Giesler, R., S.W. Lyon, C-M. Mörth, J. Karlsson, E.M. Karlsson, E.J. Jantze, G. Destouni, C. Humborg (2014), Catchment-scale dissolved carbon concentrations and export estimates across six subarctic streams in northern Sweden, *Biogeosciences*, 11, 525-537, doi:10.5194/bg-11-525-2014.
- (53) Heidbüchel, I., P.A. Troch, S.W. Lyon (2013), Separating physical and meteorological controls of variable transit times in zero-order catchments, *Water Resources Research*, 49, 7644-7657, doi:10.1002/2012WR013149.
- (52) Kalantari, Z., A. Nickman, S.W. Lyon, B. Olofsson, L. Folkesson (2014), A method for mapping flood hazard along roads, *Journal of Environmental Management*, 133, 69-77.
- (51) Vercauteren, N., Lyon, S.W., Destouni, G. (2014), Seasonal influence of insolation on fine-resolved air temperature variation and snowmelt, *Journal of Applied Meteorology and Climatology*, 53, 323-332.
- (50) Jantze, E.J., Lyon, S.W., Destouni, G. (2013), Subsurface release and transport of dissolved carbon in a discontinuous permafrost region, *Hydrology and Earth Systems Sciences*, 17, 3827-3839. doi:10.5194/hess-17-3827-2013.
- (49) Kalantari, Z., S.W. Lyon, L. Folkesson, H.K. French, J. Stolte, P-E. Jansson, M. Sassner (2014) Quantifying the hydrological impact of simulated changes in land use on peak discharge in a small catchment, *Science of The Total Environment*, 466-467, 741-754.
- (48) Troch, P.A., Berne, A., Bogaart, P., Harman, C., Hilberts, A.G., Lyon, S.W., Paniconi, C., Pauwels, V.R.N., Rupp, D.E., Selker, J.S., Teuling, R., Uijlenhoet, R., Verhoest, N.E.C. (2013), The importance of hydraulic groundwater theory in catchment hydrology: The legacy of Wilfried Brutsaert and Jean-Yves Parlange, *Water Resources Research*, 49, 1-18. doi:10.1002/wrcr.20407.
- (47) van der Velde, Y., Vercauteren, N., Jaramillo, F., Dekker, S., Destouni, G., Lyon, S.W. (2014), Exploring hydroclimatic change disparity via the Budyko framework, *Hydrological Processes*, 28, 4110-4118.
- (46) Hägg, H.E., Lyon, S.W., Wällstedt, T., Mörth, C., Claremar, B., Humborg, C. (2014), Future nutrient load scenarios for the Baltic Sea due to climate and lifestyle changes, *Ambio*, 43, 3, 337-351, doi:10.1007/s13280-013-0416-4.
- (45) van der Velde, Y., Lyon, S.W., Destouni, G. (2013), Data-driven regionalization of river discharges and emergent land cover-evapotranspiration relationships across Sweden, *Journal of Geophysical Research – Atmospheres*, 118, 6, 2576-2587, doi:10.1002/jgrd.50224.
- (44) Lyon, S.W., Walter, M.T., Jantze, E.J., and Archibald, J.A. (2013), Training hydrologists to be ecohydrologists: A ‘how-you-can-do-it’ example leveraging an active learning environment for studying plant-water interaction, *Hydrology and Earth Systems Sciences*, 17, 269-279, doi:10.5194/hess-17-269-2013.
- (43) Jaramillo, F., Prieto, C., Lyon, S.W., and Destouni, G. (2013), Multimethod assessment of evapotranspiration shifts due to non-irrigated agricultural development in Sweden, *Journal of Hydrology*, 484, 55-62, <http://dx.doi.org/10.1016/j.jhydrol.2013.01.010>.
- (42) Dahlke, H.E., and Lyon, S.W. (2013), Early melt season snowpack isotopic evolution in the Tarfala valley, northern Sweden, *Annals of Glaciology*, 54, 62, doi:10.3189/2013AoG62A232.

- (41) Giesler, R., Mörth, C.M., Karlsson, J., Lundin, E.J., Lyon, S.W., Humborg, C. (2013), Spatiotemporal variations of $p\text{CO}_2$ and $\delta^{13}\text{C}\text{-DIC}$ in subarctic streams in northern Sweden, *Global Biogeochemical Cycles*, 27(1), 176-186, DOI: 10.1002/gbc.20024.
- (40) Dahlke, H.E., Lyon, S.W., Jansson, P., Karlin, T., Rosqvist, G. (2014), Isotopic investigation of runoff generation in a glacierized catchment in northern Sweden. *Hydrological Processes*, 28, 1383-1398, doi: 10.1002/hyp.9668.
- (39) Sjöberg, Y., Frampton A., Lyon, S.W. (2013), Using streamflow characteristics to explore permafrost thawing in Northern Swedish catchments, *Journal of Hydrogeology*, 21, 1, 121-131. DOI 10.1007/s10040-012-0932-5.
- (38) Grabs, T., Bishop, K.H., Laudon, H., Lyon, S.W., Seibert, J. (2012), Riparian zone hydrology and soil water total organic carbon (TOC): Implications for spatial variability and upscaling of lateral riparian TOC exports, *Biogeosciences*, 9, 3901-3916, doi:10.5194/bg-9-3901-2012.
- (37) Bishop, K., Lyon, S., Dahlke, H. (2012), The relationship between land use and water, *Eos Trans. AGU*, 93(28), 259, doi:10.1029/2012EO280004.
- (36) Mård Karlsson, J., S.W. Lyon, G. Destouni (2012), Thermokarst lake, hydrological flow and water balance indicators of permafrost change in Western Siberia, *Journal of Hydrology*, doi: <http://dx.doi.org/10.1016/j.jhydrol.2012.07.037>.
- (35) Lyon, S.W., M. Nathanson, A. Spans, T. Grabs, H. Laudon, J. Temnerud, K. Bishop, and J. Seibert (2012), Specific discharge variability in a boreal landscape, *Water Resources Research*, 48, 8, doi:10.1029/2011WR011073.
- (34) Heidbüchel, I., P.A. Troch, S.W. Lyon, and M. Weiler (2012), The master transit time distribution of variable flow systems, *Water Resources Research*, 48, 6, doi:10.1029/2011WR011293.
- (33) Dahlke, H., S.W. Lyon, J. Stedinger, G. Rosqvist, and P. Jansson (2012), Contrasting trends in hydrologic extremes for two sub-arctic catchments in northern Sweden - Does glacier melt matter? *Hydrology and Earth Systems Sciences*, 16, 2123-2141, doi:10.5194/hess-16-2123-2012.
- (32) Nathanson, M., Kean, J.W., Grabs, T.J., Seibert, J., Laudon, H., and Lyon, S.W. (2012), Modeling rating curves using remotely sensed LiDAR data. *Hydrological Processes*, 26(9), 1427-1434, doi:10.1002/hyp.9225
- (31) Lyon, S.W., H. Braun, and J. Temnerud (2011), Accounting for instream lakes when interpolating stream water chemistry observations, *Journal of Spatial Hydrology*, 11(2), 1-20.
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Conference Presentations

>106 oral/poster contributions at international conferences as of spring 2017

Invited Presentations at International Conferences

Lyon, S.W. and Polpanich, O. (2017) On connecting hydrological modelling to stakeholder participation. MoChWo (Invited), Kathmandu, Nepal, October 2017.

Lyon, S.W. (2017), Developing Eastern Africa's resilience to flood and drought through multi-functional ecosystem-based management strategies, EGU2017-16464 (Solicited), EGU General Assembly, Vienna, Apr 2017.

Lyon, S.W. and A.J. Koutsouris (2016), Advancing understanding in the face of data limitations and difficult conditions: Estimating storage contributions to streamflow in Tanzania's rapidly developing Kilombero Valley, H14A-01, AGU Annual Meeting, San Francisco, CA, Dec. 2016.

Dahlke, H.E., M.T. Walter, S.W. Lyon, G. Rosqvist (2014), Combining natural and man-made DNA tracers to advance understanding of hydrologic flow pathway evolution. AGU Annual Meeting, San Francisco, CA, Dec. 2014.

Mård-Karlsson, J., S.W. Lyon, G. Destouni (2014), Coupled Hydroclimatic and Lake Change Patterns in Western Siberia (Poster). AGU Annual Meeting, San Francisco, CA, Dec. 2014.

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Brooks, P., J. Kostzewski, P. Troch, S.W. Lyon, M. Litvak, F. Liu, E. Vivoni, N. McDowell, J. McConnell, E. Small (2008), A predictive framework for coupling hydrology, biogeochemistry, and ecology, *EGU General Assembly*. Abstract EGU2008-A-09502. Vienna, Austria April, 2008.