

Dissemination – status March 2018

International Journal Papers

Published (alphabetical order)¹

- Andersson JCM, Pechlivanidis IG, Gustafsson D, Donnelly C, Arheimer B (2015) Key factors for improving large-scale hydrological model performance. *European Water*, 49, 77-88.^{OBS}
- Boano F, Harvey JW, Marion A, Packman AI, Revelli R, Ridolfi L, Wörman A (2014) Hyporheic flow and transport processes: Mechanisms, models, and biogeochemical implications”, *Reviews of Geophysics*, 52(4), 603–679. <http://dx.doi.org/10.1002/2012RG000417>.^{OBS}
- Donnelly C, Andersson JCM, Arheimer B (2015) Using flow signatures and catchment similarities to evaluate the E-HYPE multi-basin model across Europe. *Hydrological Sciences Journal*. <http://dx.doi.org/10.1080/02626667.2015.1027710>.^{OBS}
- Hansen AL, Refsgaard JC, Olesen JE, Børgesen CD (2017) Potential benefits of a spatially targeted regulation based on detailed N-reduction maps to decrease N-load from agriculture in a small groundwater dominated catchment. *Science of the Total Environment*, 595, 325-336. <http://dx.doi.org/10.1016/j.scitotenv.2017.03.114>
- Hansen AL, Donnelly C, Refsgaard JC, Karlsson IB (2018) Simulation of nitrate reduction in groundwater – an upscaling approach from small catchments to the Baltic Sea basin. *Advances in Water Resources*, 111, 58-69. <http://dx.doi.org/10.1016/j.advwatres.2017.10.024>
- Hashemi F, Olesen JE, Dalgaard T, Børgesen CD (2016) Review of scenario analyses to reduce agricultural nitrogen and phosphorous loading to the aquatic environment. *Science of the Total Environment*, 573, 608-626. <http://dx.doi.org/10.1016/j.scitotenv.2016.08.141>
- Hashemi F, Olesen JE, Hansen AL, Børgesen CD, Dalgaard T (2018) Spatially differentiated strategies for reducing nitrate loads from agriculture in two Danish catchments. *Journal of Environmental Management*, 208, 77-91. <http://dx.doi.org/10.1016/j.jenvman.2017.12.001>.
- Hundecha Y, Arheimer B, Donnelly C, Pechlivanidis I (2016) A regional parameter estimation scheme for a pan-European multi-basin model. *Journal of Hydrology: Regional Studies*, 6, 90-111. <http://dx.doi.org/10.1016/j.ejrh.2016.04.002>.^{OBS}
- Højberg AL, Hansen AL, Wachniew P, Zurek A, Virtanen S, Arustiene J, Strömquist J, Rankinen K, Refsgaard JC (2017) Review and assessment of nitrate reduction in groundwater in the Baltic Sea Basin. *Journal of Hydrology: Regional Studies*, 12, 50-68. <http://dx.doi.org/10.1016/j.ejrh.2017.04.001>
- Jacobsen BH, Hansen AL (2016) Economic gains from targeted measures related to non-point pollution in agriculture based on detailed nitrate reduction maps. *Science of the Total Environment* 556, 264-275. <http://dx.doi.org/10.1016/j.scitotenv.2016.01.103>^{OBS}
- Refsgaard JC, Højberg AL, He X, Hansen AL, Rasmussen SH, Stisen S (2016) Where are the limits of model predictive capabilities? *Hydrological Processes*, Keith Beven Tribute. <http://dx.doi.org/10.1002/hyp.11029>
- Riml J, Wörman A (2015) Spatiotemporal decomposition of solute dispersion in watersheds. *Water Resources Research*, 51, 2377–2392. <http://dx.doi.org/10.1002/2014WR016385>.^{OBS}
- Åkesson A, Wörman A, Riml J, Seibert J (2015) Change in streamflow response in unregulated catchments in Sweden over the last century, *Water Resources Research*. <http://dx.doi.org/10.1002/2015WR018116>^{OBS}
- Zmijewski N, Wörman A (2017) Trade-Offs between Phosphorous Discharge and Hydropower Production Using Reservoir Regulation. *Journal of Water Resources Planning and Management*, 143(9), Article Number 04017052. [http://dx.doi.org/10.1061/\(ASCE\)WR.1943-5452.0000809](http://dx.doi.org/10.1061/(ASCE)WR.1943-5452.0000809)

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Accepted

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Submitted

- Morén I, Riml J, Wörman A “Design of remediation actions in streams for retention and degradation of nutrients in the hyporheic zone”. In review: Water Resources Research
- Hashemi, F., Olesen, J.E., Børgesen, C.D., Tornbjerg, H., Thodsen, H., Dalgaard, T. (submitted). Potential benefits of farm scale measures versus landscape measures for reducing nitrate loads in a Danish catchment. Science of the Total Environment

Planned/in preparation

- Hansen AL, Jakobsen R, Refsgaard JC, Højberg AL, Iversen BV, Kjærgaard C. Shallow groundwater dynamics and the effect of tile drainage on flow across the redox interface in a Danish till area
- Olesen JE, Bar-Michalczyk D, Bosshard T, Børgesen CD, Hansen AL, Jabloun M, Refsgaard JC, Wachniew P. Nitrogen leaching losses from two Baltic Sea catchments under scenarios of changes in land use, land management and climate. *To be submitted to Special Issue Ambio.*
- Refsgaard JC, Bartosova A, Chubarenko B, Hashemi F, Højberg AL, Jakobsen R, De Jonge H, Hansen AL, Hinsby K, Olesen JE, Stelljes N, Wachniew P, Wörman A. Spatially differentiated regulation measures to reduce nitrate load from agricultural areas to the Baltic Sea. *To be submitted to Special Issue Ambio.*
- Chubarenko B, Gorbunova J, Domnin D, Refsgaard JC, Donnelly C, Capel R. A scenario analysis of socio-economic and climate related changes in nutrient emission and retention for the Pregolya River catchment (South-Eastern Baltic). *To be submitted to Special Issue Ambio.*
- Martinez G, Stelljes N, McGlade K. Stakeholder perceptions of spatially differentiated regulation to manage nutrient loads in the Baltic Sea. *To be submitted to Special Issue Ambio.*
- Jakobsen R, Hansen AL, Hinsby K, Postma D, Refsgaard JC. Reactive Nitrogen in a Clay Till Hill Slope Field System. *To be submitted to Special Issue Ambio.*
- Morén I, Riml J, Wörman A. Scenario analysis for stream restoration actions assessing the potential to reduce nutrient export to the Baltic Sea from agricultural catchments. *To be submitted to Special Issue Ambio.*
- Bartosova A, Strömqvist J, Olesen JE, Jabloun M, Capell R, Refsgaard JC, Arheimer B. Change in nutrient loads to the Baltic Sea Basin with changing climate, socioeconomic impacts, and agriculture practices. *To be submitted to Special Issue Ambio.*
- Bartosova A., Capell R, Donnelly C, Hansen AL, Arheimer B. From source to sea: upscaling the measures at a local scale to Baltic Sea Region. *To be submitted to Special Issue Ambio.*
- Strömqvist et al. Multi-basin, fine resolution integrated modelling of hydrology and surface water temperatures in Swedish rivers and lakes
- AGH + Ecologic Two dimensions of nitrate pollution in an agricultural catchment.
- Zieba D et al. Factors affecting spatiotemporal patterns of nitrates in an agricultural catchment.
- Kania J et al. 3D numerical modeling of nitrate transport.
- Żurek A et al. Sources and transformations of nitrate pollution in a GW system .
- Bartosova A, Donnelly C, Strömqvist J. Spatial and temporal trends in European water quality..
- KTH + AGH. Joint paper on the stream tracer tests using P32, N15 and tritiated water in Tullstorps Brook. In prep.
- Jabloun M, Olesen JE. Identifying hotspots of future land use spatial pattern under CMIP5 climate projections within the Baltic Sea Drainage Basin.