

Dissemination – status December 2019

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}
https://www.researchgate.net/publication/284177800_Key_factors_for_improving_large-scale_hydrological_model_performance
- Bartosova A, Capell R, Olesen JE, Jabloun M, Refsgaard JC, Donnelly C, Hyytiäinen K, Pihlainen S, Zandersen M, Arheimer B (2019) Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. *Ambio*, 48(11), 1325-1336. <http://dx.doi.org/10.1007/s13280-019-01243-5>
- 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}
- Graversgaard M, Hedelin B, Gertz F, Højberg AL, Langford J, Martinez G, Mostert E, Ptak E, Peterson H, Smith L, Stelljes N, van den Brink C, Refsgaard JC (2018) Opportunities and barriers for water co-governance – a critical analysis of seven cases of diffuse water pollution from agriculture in Europe, Australia and North America. *Sustainability*. <http://dx.doi.org/10.3390/su10051634>
- 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>
- Hansen AL, Jakobsen R, Refsgaard JC, Højberg AL, Iversen BV, Kjaergaard C (2019) Groundwater dynamics and effect of tile drainage on water flow across the redox interface in a Danish Weichsel till area. *Advances in Water Resources*, 123, 23-39. <http://dx.doi.org/10.1016/j.advwatres.2018.10.022>
- Hansen AL, Storgaard A, He X, Højberg AL, Refsgaard JC, Iversen BV, Kjaergaard C (2019) Importance of geological information for assessing drain flow in a Danish till landscape. *Hydrological Processes*, 33, 450-462. <http://dx.doi.org/10.1002/hyp.13338>
- 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>

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- Hashemi F, Olesen JE, Jabloun M, Hansen AL (2018) Reducing uncertainty of estimated load reduction to aquatic systems through spatially targeting agricultural mitigation measures using groundwater nitrogen reduction. *Journal of Environmental Management*, 218, 451-464. <http://dx.doi.org/10.1016/j.jenvman.2018.04.078>.
- Hashemi F, Olesen JE, Børgesen CD, Tornbjerg H, Thodsen H, Dalgaard T (2018) Potential benefits of farm scale measures versus landscape measures for reducing nitrate loads in a Danish catchment. *Science of the Total Environment*, 637-638, 318-335. <https://doi.org/10.1016/j.scitotenv.2018.04.390>.
- Hasler B, Hyytiäinen K, Refsgaard JC, Smart JCR, Tonderski K (2019) Sustainable ecosystem governance under changing climate and land use: An introduction. *Ambio*, 48(11), 1235-1239. <http://dx.doi.org/10.1007/s13280-019-01269-9>
- 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>
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- Refsgaard JC, Hansen AL, Højberg AL, Olesen JE, Hashemi F, Wachniew P, Wörman A, Bartosova A, Stelljes N, Chubarenko B (2019) Spatially differentiated regulation – can it save the Baltic Sea from excessive N-loads? *Ambio*, 48(11), 1278-1289. <http://dx.doi.org/10.1007/s13280-019-01195-w>
- Olesen JE, Børgesen CD, Hashemi F, Jabloun M, Bar-Michalczyk D, Wachniew P, Zurek AJ, Bartosova A, Bosshard T, Hansen AL, Refsgaard JC (2019) Nitrate leaching losses from two Baltic Sea catchments under scenarios of changes in land use, land management and climate. *Ambio*, 48(11), 1252-1263. <http://dx.doi.org/10.1007/s13280-019-01254-2>
- 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>
- Reusch TBH, Dierking J, Andersson H, Bonsdorff E, Carstensen J, Casini M, Czajkowski M, Hasler B, Hinsby K, Hyytiäinen K, Johannesson K, Jomaa S, Jormalainen V, Kuosa H, Kurland S, Laikre L, MacKenzie BR, Margonski P, Melzner F, Oesterwind D, Ojaveer H, Refsgaard JC, Sandström A, Schwarz G, Tonderski K, Winder M, Zandersen M (2018) The Baltic Sea as a time machine for the future coastal ocean. *Science Advances*, 4, eaar8195. <http://advances.sciencemag.org/content/advances/4/5/eaar8195.full.pdf>
- 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}
- Zandersen M, Hyytiäinen K, Meier MHE, Tomczak MT, Bauer B, Haapasaari P, Olesen JE, Gustafsson BG, Refsgaard JC, Fridell E, Pihlainen S, Le Tissier MDA, Kosenius AK, Van Vuuren DP (2019) Shared socio-economic pathways extended for the Baltic Sea: exploring long-term environmental problems. *Regional Environmental Change*, 19(4), 1073-1086. <http://dx.doi.org/10.1007/s10113-018-1453-0>

- 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)