Johan Strömqvist

Year of birth	1976
Nationality	Swedish
Email:	johan.stromqvist@smhi.se
Telephone:	+46114958589

Examina and employment

2007 – (current employment) Researcher at the Hydrological research department at the Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden
2004 – 2006 Environmental consultant, ADAS UK ltd., Wolverhampton, United Kingdom
2004 Research assistant, Swedish University of Agricultural Sciences, Uppsala
2004 Master of Science in Aquatic and Environmental engineering, Uppsala University

Current role and expertise

At SMHI, Johan has been an integral part of the team developing the HYPE hydrological model, specializing on soil hydrology and water quality. He also has vast experience of large-scale hydrological model applications, both in national and continental contexts. This includes the ongoing development of the national Swedish hydrology and water quality model application, S-HYPE. Johan is, in addition to his expertise in terrestrial and aquatic hydrology and water quality processes, an experienced programmer used to analyze and visualize large data sets.

Selected reviewed publications

Strömqvist, J., Brendel, C. and Bartosova, B. (2025). Large-scale semi-distributed modelling of dissolved silica fluxes and assessment of their role in coastal eutrophication. Hydrological Science journal, 70 (12): 2162–218. https://doi.org/10.1080/02626667.2025.2530125

Hankin, B., Strömqvist, J., Burgess, C., Pers, C., Bielby, S., Revilla-Romero, B., Pope, L. (2019) A New National Water Quality Model to Evaluate the Effectiveness of Catchment Management Measures in England. *Water* 2019, *11*, 1612. https://doi.org/10.3390/w11081612

Lindström, G., Pers, C.P., Rosberg, R., Strömqvist, J. and Arheimer, B. (2010) Development and test of the HYPE (Hydrological Predictions for the Environment) model – A water quality model for different spatial scales. Hydrology Research 41.3-4, 295-319.

Strömqvist, J., Arheimer, B., Dahné, J., Donnelly, C. and Lindström, G. (2012) Water and nutrient predictions in ungauged basins: set-up and evaluation of a model at the national scale, Hydrological Sciences Journal, 57:2, 229-247.

Strömqvist, J., Collins, A.L., Davison, P.S. and Lord, E.I. (2008) PSYCHIC – A process-based model of phosphorus and sediment mobilisation and delivery within agricultural catchments. Part 2: A preliminary evaluation. Journal of Hydrology 350, 303-316.