

CURRICULUM VITAE - 2024



Kristina Isberg

Date of birth 06/06/70

SMHI

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CURRENT EMPLOYMENT from 1st of June 2010

- Research engineer at the Hydrology research department, SMHI, Norrköping, SWEDEN
 - Setting up continental and global hydrological HYPE models ([HYPEweb](#))
 - GIS support (QGIS, ArcGIS, WHIST)
 - Quality assurance and troubleshooting
 - [HYPE set up tutorial](#)
 - [WHIST tutorial](#)

EMPLOYMENT HISTORY

- 2009: Quality Engineer, Vitamex Production AB, Norrköping, SWEDEN
Deputy Quality Engineer (according to GMP) during four months.
- 2008: Brochure Designer, SHR (Svenska Hydrologiska Rådet).
Designed a brochure about transboundary water for SHR to the World Water Day in Sweden 2009.
- 2002-2008: Analysis Specialist, NOSS, Norrköping, SWEDEN
Quality assurance / ISO-standardization, Method Development, Experimental Design/ Optimization).
- 1999-2002: Sensory Assessment Leader, Arla Foods Innovation, Stockholm, SWEDEN
Leader of sensory tasting panel, Recruitment and education of new panel members, Microscopy / Image analysis, Method development / Standardization)
- 1995-1999: Research engineer, STFI (Swedish Pulp and Paper Research Institute), Stockholm, SWEDEN
Chemical Analysis, Method Development / Investigations, Experimental Design, Optimization, Multivariate Data Analysis, fingerprinting of harmful bacteria occurring in pulp and paper, Diploma work supervisor.)

EDUCATION

- 2010: Geographic Information Systems 2 - Scientific data 7.5 ects, Umeå University
- 2010: Pollution of Marine Environment 7.5 ects, University of Gothenburg
- 2010: Swedish Environmental Law 7.5 ects, Umeå University (not finished yet)
- 2009: Environmental Science 7.5 ects, Växjö University
- 2008: Water, Climate and Atmosphere 10 ects, Uppsala University
- 2008: Geographic Information Systems 1 - Scientific data 7.5 ects, Umeå University
- 1998-1999: Leadership training, 25 days, STFI, Stockholm
- 1990-1995: Master of Science in Chemistry, 270 ects, Programme in Mathematics – Natural Science, Uppsala University, SWEDEN,
+ Diploma Work 30 ects, Free University, Amsterdam, Netherlands

LANGUAGES

- Swedish – mother tongue
- English – good
- German – fair

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PUBLICATIONS

I am coauthor to a few publications and reports about continental to world-wide, large scale, hydrological modelling including wetland studies in Sweden. H-index 6 (Google Scholar)

Peer-reviewed scientific articles

Arheimer, B., Pimentel, R., Isberg, K., Crochemore, L., Andersson, J. C. M., Hasan, A., and Pineda, L. (2020).: *Global catchment modelling using World-Wide HYPE (WWH), open data and stepwise parameter estimation*, Hydrol. Earth Syst. Sci. DOI: <https://doi.org/10.5194/hess-24-535-2020>

Stadnyk, Tricia & MacDonald, Matthew & Tefs, Andrew & Déry, Stephen & Koenig, Kristina & Gustafsson, David & Isberg, Kristina & Arheimer, Berit. (2020). Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. Elem Sci Anth. 8. 43. 10.1525/elementa.439.

L. Crochemore, K. Isberg, R. Pimentel, L. Pineda, A. Hasan & B. Arheimer (2019): *Lessons learnt from checking the quality of openly accessible river flow data worldwide*, Hydrological Sciences Journal, DOI: <https://doi.org/10.1080/02626667.2019.1659509>

MacDonald, M. K., Stadnyk, T. A., Déry, S. J., Braun, M., Gustafsson, D., Isberg, K., and Arheimer, B. (2018): *Impacts of 1.5°C and 2.0°C warming on pan-Arctic river discharge into the Hudson Bay Complex through 2070*, Geophysical Research Letters, 45(15), 7561-7570

Vesakoski J-M., Nylén, T., Arheimer, B., Gustafsson, D., Isberg, K., et. Al. (2017): *Arctic Mackenzie Delta channel planform evolution during 1983-2013 utilising Landsat data and hydrological time series*. Hydrological Processes, in Press. <https://doi.org/10.1002/hyp.11315>

Donnelly, C., Rosberg, J., and Isberg, K., (2013) *A validation of river routing networks for catchment modelling from small to large scales*. Hydrology Research, 44(5), 917–925.. DOI:10.2166/nh.2012.341

Kok, S. J., Isberg, I.C.K., Gooijer, C., Brinkman, U.A.Th., & Velthorst, N. H. (1998). *Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water*. Analytica chimica acta, 360 (1), 109-118.

PROJECT REPORTS

Schützer, S., Elenius, M., Isberg, K., Temnerud, J.: *Nedströmseffekter från återvätning av dikad skog på torv*. SMHI Hydrologi (2023), NR 130.

Bishop, K., Hjerdt, N., Huseby-Karlsen, R., Isberg, K., Lindström, G., Nijp, J., Pers, C., Schutzer, S., Strömqvist, J., Temnerud, J., Teutschbein, C., (2023), *EviWet Slutrapport (Evidensbaserat beslutstöd för våtmarkers hydrologiska ekosystemtjänster)*. NATURVÅRDSVERKET (in progress)

Isberg, K., & Strömqvist, J., Hundecha, Y., Olsson, J., (2021) *Calibrated WW-HYPE both at regional and global scales and report on WW-HYPE performance*. Deliverable 3.2 in project Model-based Global Assessment of Hydrological Pressure (GlobalHydroPressure).

Andersson, Jafet & Isberg, Kristina & Gustafsson, David & Musuuza, Jude & Minoungou, Bernard & Crochemore, Louise & Little, Lorna. (2020). FANFAR Deliverable D3.2: Report documenting and explaining the hydrological models. 10.13140/RG.2.2.17369.85601.

POPULAR SCIENTIFIC ARTICLES

Isberg, K., Arheimer, B. and Donnelly, C. (2012). *Hydrological Model for Water Management and Implementation for European Directives*. From the publication: "The growing use of GMES across Europe's regions" published by NEREUS and ESA.