

CURRICULUM VITAE - 2025

Kristina Isberg



SMHI

 Folkborgsvägen 1
S-601 76 Norrköping
SWEDEN

✉ kristina.isberg@smhi.se

☎ +46 – 11 – 495 80 00

CURRENT EMPLOYMENT from 1st of June 2010

- Research engineer (permanent) at the Hydrology research unit, 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

- 2010: Research engineer (temporary) at the Hydrology research unit SMHI, Norrköping, SWEDEN
- 2009: Quality Engineer, Vitamex Production AB, Norrköping, SWEDEN.
- 2008: Brochure Designer, SHR (Svenska Hydrologiska Rådet).
- 2002-2008: Analysis Specialist, NOSS, Norrköping, SWEDEN
- 1999-2002: Sensory Assessment Leader, Arla Foods Innovation, Stockholm, SWEDEN
- 1995-1999: Research engineer, STFI (Swedish Pulp and Paper Research Institute), Stockholm, SWEDEN

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

PUBLICATIONS

I am coauthor to a few publications and reports about continental to world-wide, large scale, hydrological modelling including wetland studies in Sweden.

Peer-reviewed scientific articles

Lahnik, O., Trambalay, Y., Hanich, L., Andersson, J.C.M., Lguensat, R., Isberg, K., Ben Ahmed, A., Dahné, J., Sultan, B. (2025): *Future water resources and droughts in the Atlas Mountains of Morocco under a high-emission climate scenario*, Journal of Hydrology: Regional Studies. Volume 59, 2025,102371, <https://doi.org/10.1016/j.ejrh.2025.102371>

Du, Y., Olsson, J., Isberg, K., Strömquist, J., Hundecha, Y., Cláudio da Silva, B., Abou Rafee, S., Fragoso Jr, C. R., Beldring, S., Hansen, A., Bertacch Uvo, C., Sörensen, J. (2024): *Application-based evaluation of multibasin hydrological models*. Journal of Hydrology. Vol 641, 131727. <https://doi.org/10.1016/j.jhydrol.2024.131727>

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, T., MacDonald, M., Tefs, A., Dery, S., Koenig, K., Gustafsson, D., Isberg, K., Arheimer, B. (2020). *Hydrological modeling of freshwater discharge into Hudson Bay using HYPE*. Elem Sci Anth. 8. 43. <https://doi.org/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, <https://doi.org/10.1029/2018GL079147>

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, Vol. 31(22), 3979-3995. <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. <https://doi.org/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 [https://doi.org/10.1016/S0003-2670\(97\)00707-1](https://doi.org/10.1016/S0003-2670(97)00707-1)

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., Schützer, S., Strömquist, J., Temnerud, J., & Teutschbein, C. (2024). *EviWet: Evidensbaserat beslutsstöd för våtmarkers hydrologiska ekosystemtjänster*. Rapport 7144. Naturvårdsverket. <https://www.naturvardsverket.se/publikationer/7100/978-91-620-7144-8/>

Isberg, K., Strömquist, 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, J., Isberg, K., Gustafsson, Musuuza, J., Minoungou, B., Crochemore, L., Little, I., (2020). FANFAR Deliverable D3.2: Report documenting and explaining the hydrological models. <https://doi.org/10.13140/RG.2.2.17369.85601>

Isberg, K., Björklund, M., Hardell, H-L., Dahlman, O. (2002). Extractable components in paper for food contact - Characterization of high molecular mass material. Nordic Pulp and Paper Research Journal. 17. 172-178. <https://doi.org/10.3183/npprj-2002-17-02-p172-178>

Popular scientific reports

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](#). (p.79).