

Curriculum Vitae

Name Bodil Charlotta Pers
Birthdate April 23, 1971
Nationality swedish

Examina and employment

2000- Researcher at Swedish Meteorological and Hydrological Institute, Norrköping, tasks: responsible for the hydrological model code (HYPE), research and development on hydrological processes and modelling
2000 Ph.D at the Department of Water and Environmental Studies, Linköping University. Supervisor: Professor Lars Rahm.
1995 Master of Science in Applied physics and electrical engineering, Linköping University

Recent peer-reviewed publications

Ahmed, M.I., Shook, K., Pietroniro, A., Stadnyk, T., Pomeroy, J.W., Pers, C., and Gustafsson, D., 2023. Implementing a parsimonious variable contributing area algorithm for prairie pothole region in the HYPE modelling framework. Environmental Modelling and Software, doi: DOI: 10.1016/j.envsoft.2023.105769
de Lavanne, A., Lindström, G., Strömqvist, J., Pers, C., Bartosova, A., and B. Arheimer, 2022. Evaluation of overland flow modelling hypotheses with a multi-objective calibration using discharge and sediment data. Hydrological Processes 36(12). DOI: 10.1002/hyp.14767
Sternberg Lewerin, S., Sokolova, E., Wahlström, H., Lindström, G., Pers, C., Strömqvist, J., and K. Sören, 2020. Potential infection of grazing cattle via contaminated water - a theoretical modelling approach, Animal: An International Journal of Animal Bioscience. First view: DOI: 10.1017/S1751731118003415.
Hankin, B., Strömqvist, J., Burgess, C., Pers, C., Bielby, S., Revilla-Romero, B., and L. Pope, 2019. A New National Water Quality Model to Evaluate the Effectiveness of Catchment Management Measures in England. Water 2019, 11, 1612. DOI: 10.3390/w11081612
Strömbäck, L., Pers, C., Strömqvist, J., Lindström, G., and J. Gustavsson, 2019. A web based analysis and scenario tool for eutrophication of inland waters for Sweden and Europe. Environmental Modelling & Software, 111:259-267, DOI: 10.1016/j.envsoft.2018.07.012
Sokolova, E., Lindström, G., Pers, C., Strömqvist, J., Sternberg Lewerin, S., Wahlström, H., and K. Sören, 2018. Water quality modelling: microbial risks associated with manure on pasture and arable land. Journal of Water and Health, 16(4): 549-561, DOI: 10.2166/wh.2018.278.
Olsson, J., Pers, B.C., Bengtsson, L., Pechlivanidis, I., Berg, P., and H. Körnich, 2017. Distance-dependent depth-duration analysis in high-resolution hydro-meteorological ensemble forecasting: a case study in Malmö City, Sweden. Environmental Modelling and Software. 93:381-397, DOI: 10.1016/j.envsoft.2017.03.025.
Pers, C., Temnerud, J. and G. Lindström, 2016. Modelling water, nutrients, and organic carbon in forested catchments: a HYPE application. Hydrological Processes, 30(18):3252-3273, DOI:10.1002/hyp.10830.

- Arheimer, B., and B.C. Pers, 2016. Lessons learned? Effects of nutrient reductions from constructing wetlands in 1996-2006 across Sweden. *Ecological Engineering*, DOI: 10.1016/j.ecoleng.2016.01.088.
- Yin, Y., Jiang, S., Pers, C., Yang, X., Liu, Q., Yuan, J., Yao, M., He, Y., Luo, X., Zheng, Z., 2016. Assessment of the Spatial and Temporal Variations of Water Quality for Agricultural Lands with Crop Rotation in China by Using a HYPE Model. *Int. J. Environ. Res. Public Health*, 13(3), 336. DOI: 10.3390/ijerph13030336
- Winterdahl, M., H. Laudon, S. W. Lyon, C. Pers, and K. Bishop, 2016. Sensitivity of stream dissolved organic carbon to temperature and discharge: Implications of future climates, *J. Geophys. Res. Biogeosci.*, 121, 126–144, DOI:10.1002/2015JG002922.

Recent other publications

- Strömqvist, J., Elenius, M., Lindström, G., Pers, C., and J. Temnerud, 2022. Beräkning av näringsämnestillförsel till ytvatten och retention i sjöar och vattendrag för PLC8-rapportering. SMED Rapport Nr 24 2022. SMHI. ISSN: 1653-8102.
- Bishop, K., Hjerdt, N., Huseby-Karlsen, R., Isberg, K., Lindström, G., Nijp, J., Pers, C., Schützer, S., Strömqvist, 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/>
- Ivarsson, C.-L., Olsson, J., Pers, C. and Y. Hundecha, 2017. High-resolution ensemble flood forecasting: A case study in Høje å, Sweden, *Vatten - Journal of Water Management and Research* 73: 85–92.

Repository

- Elenius, M., Pers, C., Schützer, S., & Arheimer, B. (2024). research data for the article Elenius et al, 'Where can rewetting of forested peatland reduce extreme flows?' (first submission of manuscript) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.13472209>
- Ahmed, Mohamed Ismaiel, Shook, Kevin, Pietroniro, Alain, Stadnyk, Tricia, Pomeroy, John W., Pers, Charlotta, & Gustafsson, David, 2022. Implementing A Parsimonious Variable Contributing Area Algorithm for Prairie Pothole Region in the HYPE Modelling Framework. In *Environmental Modelling & Software* (Version 1). Zenodo. <https://doi.org/10.5281/zenodo.7221439>