

Peter Berg

Head of the Hydrological Research
Unit
SMHI
Hydrology Research Unit
SE - 601 76 NORRKÖPING
Email: peter.berg@smhi.se
Phone: +46 (0)11 495 8436



Professional experience

- 2023 - **Head of the Hydrological Research Unit of SMHI, Sweden**
- + Personnel and economic responsibility for some 45 employees
 - + Member of the lead group for Research and Development
 - + Scientific coordination of hydroclimatology
 - + Project lead in national and international research projects
- 2017 - 2022 **Research leader in hydroclimatology, SMHI, Sweden**
- + Responsible for a research team
 - + Research and development on historical forcing data for hydrology, bias adjustment of climate models and studies of extremes
 - + Project lead of several contracts for Copernicus Climate Change Service
 - + Project lead of internal cross-disciplinary projects at SMHI
- 2013 – 2017 **Researcher, SMHI, Sweden**
- + Research and development focusing on
 - Historical forcing data sets for hydrology
 - Bias adjustment methods for climate models
 - Studies of extremes in historical periods and future projections
- 2012 – 2013 **Postdoc, Rossby centre, SMHI, Sweden**
- + Developing the climate model RCA4 for regional processes in the Arctic.
- 2009 – 2011 **Postdoc, IMK, KIT, Karlsruhe, Germany**
- + Developing and analyzing the high-resolution regional climate model COSMO-CLM for studies of extremes in Germany
 - + Studies of changes in cloud bursts
- 2007 – 2008 **Postdoc – Danish Climate Centre, DMI, Copenhagen, Denmark**
- + Development and analyses with the regional climate model HIRHAM
 - + Studies of changes in cloud bursts and other precipitation extremes

Education

- 2019 **UGL- leadership, Gallöfsta, Stockholm**
- 2003 – 2007 **PhD, Copenhagen University, Denmark**
- + Thesis title: "The dynamical coupling of the stratosphere and the troposphere: Planetary waves and radiative perturbations", describing global atmospheric modeling of large scale stratospheric phenomena that impact the troposphere. Focus on solar-terrestrial coupling through stratospheric processes.
 - + Supervisors: Bo Christansen (DMI), Peter Thejll (DMI) and Aksel Walloe Hansen (KU)
- 1998 – 2003 **Master of Science, Physics – Lund University, Sweden**
- + Mathematics and Physics
 - + Emphasis on astronomy, solar sciences and Earth's climate

Project coordination

- 2023 **Project lead for Fire danger assessment for Sweden using the FWI-model (commissioned by MSB)**
- 2022-2024 **Project lead for "Multi-model Operational Hydrological Seasonal Prediction Service" C3S, (C3S2_410_Lot2)**
- 2018-2021 **Project lead for "Operational Service for the Water Sector" C3S, (C3S_424)**