

**CURRICULUM VITAE - Berit Arheimer**

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LANGUAGES: Swedish (mother tongue), English (excellent), French (fair), Spanish (poor)

**ACADEMIC TITLES**

2021: Professor in Hydrology, Swedish Meteorological and Hydrological Institute (SMHI)

2007: Associate Professor (Docent) in Water and Environmental Studies, Linköping University

1999: Ph. Doctoral degree in Water and Environmental Studies, Linköping University

1991: B.Sc. in Geosciences, Lund University.

**CURRENT EMPLOYMENT**

Head of Hydrological Research, Swedish Meteorological and Hydrological Institute. (2000=>on-going).

**WORK TASKS**

- Scientific coordination and communication of: Integrated catchment modelling world-wide, Hydrological forecasting, Water quality management, and Climate change impact on water resources. [www.smhi.se/hydrology-research](http://www.smhi.se/hydrology-research)
- Developing support to operational hydrology (early warning services and consultancy).
- Personnel and economic responsibility for some 35 employees (including fund raising).

**PREVIOUS EMPLOYMENTS**

1997-2000 Researcher at the Swedish Meteorological and Hydrological Institute (SMHI)

1991-1996 Doctoral Candidate and Research Assistant at the Linköping University, LiU

*Maternal leave:*

1999-2000 10 months maternal leave

1994-1995 8 months maternal leave

**PRODUCTS: Operational Water & Climate Services with Public Access to Open Data**

*Initiating, Developing and Maintaining computational systems, which delivers decision support*

2019- Climate-science basis for Green Climate Fund projects <https://climateinformation.org/>

2015- Copernicus Climate Change Service (C3S) – Climate and water indicators for Climate Data Store <https://cds.climate.copernicus.eu/#!/home> + Showcases for Data in Action <https://climate.copernicus.eu/data-action>

2010 - HYPE open data, open source code and subscription service: <http://hypeweb.smhi.se/>

2008 - S-HYPE and Water info-web for Swedish water managers and reporting to the EU Water Framework Directive: <http://vattenwebb.smhi.se/>

2001 - SMED vatten / Swedish Environmental Emission Data for international reporting to HELCOM and OSPAR: <http://www.smed.se/vatten>

**SOME MAJOR PROJECTS the last 5 years**

**C3S\_424\_SMHI (2018-2021)** – Operational water-sectorial information service. *Role:* Coordinator 2018-2019; *Funding:* Copernicus/ECMWF, 1.5 Million Euro over 3 years, 2 partners.

**FANFAR (2018-2020)** – Operational flood forecasting and alerts in west Africa. *Role:* Coordinator 2018; *Funding:* EU H2020 (Grant No. 780118), 2.2 Mill Euro over 3 years, 6 partners (+17 nations).

**AQUACLEW (2017-2020)** - Advancing the Quality of Climate Services for European Waters. *Role:* Coordinator 2017-2019; *Funding:* EU JPI (Grant No.690462), 2.1 Mill Euro over 3 years, 8 partners.

**C3S\_422\_Lot1\_SMHI (2017-2019)** – Global users in the Copernicus climate change service. *Role:* Coordinator; *Funding:* Copernicus/ECMWF, 2.5 Million Euro over 1.5 years, 15 partners +10 in kind.

**C3S\_441\_Lot1\_SMHI (SWICCA, 2015-2018)** – Service for Water Indicators in Climate Change Adaptation; *Role:* Coordinator; *Funding:* Copernicus/ECMWF (Ref: C3S 441 Lot 1), 1.6 Million Euro over 2 years, 14 partners (of which 3 in kind).

**SWITCH-ON (2013-2017)** - Sharing Water-related Information to Tackle Changes in the Hydrosphere - for Operational Needs; *Role:* Coordinator; *Funding:* EU FP7 (Grant Agreement No. 603587), 7.8 Million Euro over 4 years, 15 partners.

**CLEO (2010-2015)** - Climate change and Environmental Objectives; *Role:* Management group and Cluster (WP) leader, project leader; *Funding:* Swedish EPA, 40 milj SEK over 6 years, 6 partners.

**HYDROIMPACTS2.0 (2010-2014)** - Strategic research of climate change impact on hydrology; *Role:* Coordinator; *Funding:* Swedish research council FORMAS, 20 milj SEK over 5 years, 3partners

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### INTERNATIONAL and NATIONAL ASSIGNMENTS

World Meteorological Organisation (WMO):

- Member of the Executive Council panel of experts on Polar Observations, Research and Services, EC-PORS (2012 -); and Arctic-HYCOS working team (2013 -), HydroSOS (2018-).
- Rapporteur for the Working group on hydrology, RA VI, Europe (1999-2001)

International Association of Hydrological Sciences (IAHS):

- Swedish representative in the IAHS council (2004 - )
- Member of IAHS task force for new scientific theme of the decade (2013-2022).
- Chair of Election Panel (2015) and Member in scientific committee of PUB theme (2010-2012)
- Vice-president of the scientific commission on water quality (ICWQ) (2007-2012)
- President of IAHS 2021-2025. (*incl. President-elect 2019-2021 and President-past 2025-2027*)

UNESCO International Hydrological Programme (IHP):

- Swedish representative of the IHP intergovernmental council, Paris (2012-2013).
- Delegate in the Swedish IHP committee and the Swedish expert group of UNESCO scientific programmes of the Swedish Research Council (2008-2013).
- Chair of the Swedish IHP committee (2008-2009).

Convention for the Protection of the Marine Environment of the North-East Atlantic (OSPAR):

- Chair of the permanent intergovernmental Working Group on pollution Inputs to the Marine Environment, INPUT (2011-2013)

European Commission:

- Participation in the EU-projects: BALANS, EUROHARP, HARMONQUA, CLARIS2, GENESIS, GEOLAND2, MYOCEAN, OPERR, SIRIUS, ECLISE, SAWA, CPA, SUDPLAN, BALADAPT, IMPACT2C, CRYOLAND, JERICO, EUPORIAS, SWITCH-ON, SOILS2SEA, IMPREX, AQUACLEW, FANFAR, etc.
- Delegate in the EU Cost Action No. 869 “Mitigation options for nutrient reduction in surface and groundwater” (2007-2011).
- Annual reviewer of the EU project EUROLIMPACS (FP6) regarding progress of work by 57 partners and working plans (2007-08).

Royal Swedish Academy of Sciences (KVA):

- Delegate of the Swedish national committee of Geophysics, SNG (2004 - )
- Member of the Local Organising Committee for IAHS, IAPSO, IASPEI General Assemblies in Gothenburg 2013, conference: “Knowledge for the future” (2011-2013).

Global Energy and Water Exchanges, GEWEX:

- Baltic Sea Experiment (BALTEX) scientific steering committee (2009-2012)
- Member of writing team for the Implementation Plan (2004)

Helsinki Commission (HELCOM):

- Swedish expert in the working group MINDEC88 (2000-2001)

### OTHER SCIENTIFIC RECORDS

- Award: the Darcy medal of the European Geoscience Union (EGU) 2021: “*Outstanding scientific contributions in water resources research and water resources engineering and management.*”
- Author or co-author of 106 per-reviewed scientific papers in international journals and >100 reports or international conference proceedings (some per-reviewed). Editor of the book: “Understanding fresh-water quality problems in a changing world” *IAHS press publ. 361 (2013)*
- H-index = 40 according to Web of Science (Nov. 2021)
- Presentations of scientific results at >100 international conferences (some invited/Key-notes).
- Scientific referee for the international journals: e.g. *Ambio*, *Aquatic Sciences*, *Biogeochemistry*, *Hydrobiologia*, *Hydrological Processes*, *Hydrological Sciences J.*, *Nordic hydrology*, *J. Environmental Quality*, *J. Hydrology*, *J. the Total Environment*, *J. the American Water Resources Association*, *Biogeochemistry*, *HESS*, *WRR*, etc.
- Examiner in >10 Dissemination Boards for Doctoral degree at Swedish/EU Universities.
- Holder of research grants from Swedish EPA, Swedish Space Board, Municipal Studies Center (CKS), Swedish Strategic Environmental Research Fund (MISTRA), FORMAS, VR, Swedish waterpower centre (SVC), ESA, and EU 4<sup>th</sup>, 5<sup>th</sup> and 7<sup>th</sup> FP, H2020 and for R&D, EUCopernicus.
- Co-supervisor for doctoral candidate M.Sc. Joakim Riml at the Royal Institute of Technology, Stockholm, together with Professor Anders Wörman (period: 2007-2015). Awarded 2015.
- Post-Docs: Dr. Temnerud (2012-2014), Dr Traoe, Dr Kuentz (2014-2016), Dr Pinedas, Dr. Hassan, Dr Crochemore, Dr Leiva Pimentel (2016-2018), Dr de Lavanne, Dr Santos (2018-2020).