



UNIVERSIDAD
DE CÓRDOBA

RECTOR

Manuel Torralbo Rodríguez

Propuesta Doctora Honoris Causa

Dra. Berit Arheimer
Profesora de Investigación
Swedish Meteorological and Hydrological Institute
SMHI-Suecia

Justificación de méritos y relación con la Universidad de Córdoba

La normativa de Estudios de Doctorado en la Universidad de Córdoba establece que las propuestas de otorgamiento del grado de Doctor o Doctora "Honoris Causa" se presentarán ante el Consejo de Gobierno de la Universidad de Córdoba una vez cumplimentados los trámites procedimentales previstos en ella. Cada propuesta deberá incluir una memoria justificativa de los méritos académicos, científicos, artísticos, literarios, culturales o sociales de la persona candidata, su vinculación a la Universidad de Córdoba y relaciones y colaboraciones a desarrollar, así como la indicación expresa de una de las ramas de conocimiento (Arte y Humanidades, Ciencias, Ciencias de la Salud, Ciencias Sociales y Jurídicas, Ingeniería y Arquitectura) por el que se propone.

Este documento constituye la Memoria que da soporte a la propuesta de otorgamiento del grado de Doctor Honoris Causa por la rama de conocimiento de Ingeniería y Arquitectura a la Dra. Berit Arheimer, Profesora de Investigación del *Swedish Meteorological and Hydrological Institute* (SMHI). La propuesta se realiza ante la Comisión de Másteres y Doctorado de la Universidad de Córdoba, como indica su normativa, por iniciativa del Rector.

Córdoba, 29 de abril de 2024

I Justificación de méritos de la Candidata

Berit Arheimer es una investigadora de excelencia en el campo de la hidrología a nivel mundial, con liderazgo demostrado a diferentes niveles. Autora de numerosos trabajos científicos indexados, alrededor de 150, desde 1994, que suman más de 8500 citas en un contexto de 80 citas por trabajo como media, y con un índice H de 48 en la actualidad, la Dra. Arheimer destaca por dos líneas de coherencia científica a lo largo de su trayectoria: la colaboración internacional y la apuesta por el acceso abierto a los resultados de investigación. El currículum aportado muestra ambas características en la selección de proyectos y acciones desarrollados, y de publicaciones.

Pero, además, la Dra. Arheimer es un paradigma claro de liderazgo en investigación en general, y un referente para el liderazgo femenino, en particular: responsable de grupos de investigación, de áreas de trabajo en el SMHI, de redes internacionales, de grupos de trabajo en la IAHS, etcétera, en una trayectoria que ha culminado con su elección como Presidenta de la IAHS en 2019, responsabilidad que ostenta en la actualidad. Su apoyo por los jóvenes investigadores y por los países con menos recursos es otro aspecto destacable en su liderazgo. Un repaso a su currículum muestra su implicación en acciones internacionales, su rol como representante en instituciones de investigación, desarrollo o política institucional.

Todo ello ha sido reconocido con diversos premios, entre los que se destaca la *Darcy Medal* de la *European Geoscience Union* (EGU) en 2021 otorgada a quienes hayan realizado "*Outstanding scientific contributions in water resources research and water resources engineering and management.*" No cabe duda que todo este recorrido profesional y personal hace esta candidatura meritoria de ser propuesta como Doctora Honoris Causa en la Universidad de Córdoba.

II Vinculación de la Candidata con la Universidad de Córdoba

La Dra. Arheimer ha colaborado con la Universidad de Córdoba (UCO) durante más de diez años en el campo de la investigación en hidrología y la transferencia de resultados de investigación como servicios climáticos e hidrológicos. Esta relación ha contribuido significativamente a la consolidación de nuestros investigadores en esta área de trabajo, con impacto clave directo en su proyección internacional. Entre otros impactos indirectos, estas contribuciones han sido relevantes para otros reconocimientos, como la Unidad de Excelencia María de Maeztu DAUCO en la UCO.

La relación de la Dra. Arheimer del SMHI con la UCO se remonta a 2012, en el contexto de la celebración de la Asamblea General de la *European Geophysical Union* (EGU), cuando se interesa por el trabajo de investigadores de la UCO sobre hidrología de cuencas mediterráneas, si bien es desde 2014 cuando se torna en colaboración continua e intensa en las distintas facetas de la actividad universitaria. Este apartado presenta la trayectoria de esta vinculación y destaca aquellos hitos y resultados relevantes que, junto con su calidad y excelencia universitaria, son la base de esta propuesta.

Los principales aspectos que glosan la vinculación de la Candidata con la Universidad de Córdoba se pueden resumir en:

- 1. Interacción entre líneas de investigación del SMHI y el Grupo de Dinámica Fluvial e Hidrología (GDFH) en el marco de la caracterización de cuencas del sur de Europa en la validación del modelo hidrológico paneuropeo E-HYPE, y resultados derivados.**
 - 20 artículos científicos en coautoría
 - > 35 comunicaciones en congresos internacionales de prestigio
 - colaboración en el equipo en 4 proyectos del Plan Estatal, 2 proyectos autonómicos
 - acceso a las bases de datos climático-hidrológicas del SMHI.
- 2. Relación de transferencia de resultados de investigación del GDFH en el marco de servicios climáticos desarrollados por el SMHI en su labor de agencia pública en Suecia (2015-2018).**
 - *Service for water indicators in climate change adaptation (SWICCA)*. Swedish Meteorological and Hydrological Institute. Este contrato competitivo permitió realizar una prueba de concepto para la validación en el sur de la Unión Europea de metadatos climático-hidrológicos de escenarios futuros de clima generados a escala europea, en un estado final de prueba de concepto.
- 3. Investigadora anfitriona de diversos investigadores posdoctorales provenientes de la UCO (2017-2019).**
 - Contrato posdoctoral del actual profesor de la UCO Rafael Pimentel Leiva, cuyo desarrollo propició su competitividad para un contrato posterior en la UCO como Juan de la Cierva de Incorporación.
 - Diversas movilidades posdoctorales desde el GDFH al SMHI
 - Creación de redes de investigadores mutuos que después se han trasladado a otras instituciones y mantienen colaboración estrecha en proyectos conjuntos de carácter diverso.

4. Incorporación de la UCO en grupos de trabajo en el marco de los servicios climáticos e hidrológicos que dieron lugar a sendos proyectos de investigación financiados por el programa H2020 de la UE, los proyectos CLARA y AQUACLEW (2016-2021).

- Participación de la UCO en dos grupos de trabajo de la IAHS-Hydrological Decade 2013-2023, Panta Rhei; en la actualidad, participación en dos grupos de trabajo de la IAHS-Hydrological Decade 2023-2033 HELPING.
- Participación de la UCO como socios en los siguientes proyectos europeos:
H2020-SC5-2016-2017-730482-1. CLARA-Climate forecast enabled knowledge services. EU. H2020. IP: J.Mysiak (CMCC); M.J. Polo (IP UCO). 01/06/2017-30/09/2020. 558.609,78 €.
ERA-NET ERA4CS/PCIN-2017-072. AQUACLEW - Advancing QUALity of CLimate services for European Water. MITECO /UE. Call APCIN linked to EU- ERANET. IP: M.J. Polo (UCO). 18/09/2017- 31/12/2020. 95.000,00 €.
- Celebración en la UCO del *Remote Sensing & Hydrology Symposium*, ICRS-IAHS, en mayo de 2018.

5. Apoyo firme a la proyección internacional de la UCO en el área de clima, hidrología y servicios hidroclimáticos en diversas iniciativas desde su rol de liderazgo en el SMHI, primero, y como presidenta de la *International Association of Hydrological Sciences (IAHS)* desde 2019, incluyendo las fortalezas de su relación con la UNESCO.

Desde el inicio, la Dra. Arheimer ha sido clave para visualizar el trabajo realizado desde el GDFH en cuencas mediterráneas en el contexto de la IAHS. Ha sido una colaboración mutua que ha permitido que la UCO se consolide internacionalmente en la comunidad internacional de la investigación en hidrología. No solo por los resultados de la investigación y la implicación de miembros del GDFH en las redes y los grupos de trabajo de la IAHS, sino por el impacto internacional de la proyección de la UCO con la obtención de la profesora Polo de la *Dooge Medal-International Prize on Hydrology* (IAHS-UNESCO-WMO), primera ocasión desde la creación de este premio en la década de los 80 del siglo XX que se concede a una persona española.

Esta colaboración se ha reforzado desde su presidencia de la IAHS, apoyo que se ha visualizado con la elección de la UCO como institución donde celebrar la reunión científica internacional IAHS-Córdoba Meeting, en febrero de 2023, en la que durante tres días la comunidad científica más relevante en el área de la hidrología y ciencias relacionadas discutió y acordó los objetivos científicos de esta asociación para la década 2023-2033. Bajo el lema HELPING (*Science for water solutions decade: HELPING – Hydrology Engaging Local People IN one Global world*). Entre otros resultados, en la elaboración de la Concept Note para definir las líneas estratégicas se incluyó a la UCO; por primera vez una universidad española en esta línea de actuación decenal de la IAHS.

Por todo ello, esta candidatura merece ser considerada para el reconocimiento de la Universidad de Córdoba para formar parte de su Claustro y se presenta con la seguridad de que la colaboración actual tiene ya raíces muy sólidas y, asimismo, horizontes amplios de futuro.

<https://iahs.info/Initiatives/initiatives/>

<https://iahs.info/Initiatives/Topic-for-the-Next-IAHS-decade/Forms-and-forums/>

CURRICULUM VITAE - Berit Arheimer

Contact: SMHI, 601 76 Norrköping, Sweden

Phone: +46 11 495 8000, Email: berit.arheimer@smhi.se

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

**ACADEMIC TITLES**

2021: Full 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

Full Professor in Hydrology, [Hydrological Research](#), Swedish Meteorological and Hydrological Institute.

WORK TASKS

- Scientific coordination and communication in: Climate-change impact on water resources, Global catchment modelling, Hydrological forecasting, Water (quality) management and governance.
- Project management and supervision of Ph.D. candidates.
- President of [IAHS](#) (NGO with 10 000 members from 150 countries).

PREVIOUS EMPLOYMENTS

2000-2022 Head of Hydrological Research, SMHI (5 => 45 employees)

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>

PROJECT MANAGEMENT the last 10 years

Fair Water (2022-2026) – Collaborative and fair catchment-based water management: stress testing droughts and floods for resilient multifunctional use of water. *Role:* Coordinator, *Funding:* Formas, 16 Million SEK over 4 years, 2 partners.

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, 1.6 Million Euro over 2 years, 14 partners (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.

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, 3 partners.

CURRICULUM VITAE - Berit Arheimer

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 = 42 according to Web of Science (Jan. 2023)
- Presentations of scientific results at >150 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 4th, 5th and 7th 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).

Berit Arheimer

<https://orcid.org/0000-0001-8314-0735>

Websites & Social Links

<http://www.smhi.se/hydrology-research> (<http://www.smhi.se/hydrology-research>)

Country

Sweden

Keywords

Catchment modelling, global hydrology, climate change, water resources and management, water qua

Other IDs

Scopus Author ID: 6701506575 (<http://www.scopus.com/inward/authorDetails.url?authorID=6701506575&partnerID=MN8TOARS>)

Loop profile: 467931 (http://loop.frontiersin.org/people/467931/overview?referrer=orcid_profile)

Biography

DEVELOPING INFO 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 on behalf of WMO/Green Climate Fund - <https://climateinformation.org/>

2015- Copernicus Climate Change Service (C3S) – Water indicators <http://swicca.eu/>, Global impacts

<http://climateservice-global.eu/> and Water Management <https://climate.copernicus.eu/node/240>

2011 - HYPE Open Source Community for sharing source code: <http://hypecode.smhi.se/>

2010 - HYPE web; open data for regions with HYPE modelling: <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>

INTERNATIONAL and NATIONAL ASSIGNMENTS

World Meteorological Organisation (WMO):

- Contributing to the Climate rationale (2019-) and Hydro-SOS (2017-).
- Member of the Executive Council panel of experts on Polar Observations, Research and Services, EC-PORS (2012 -); and Arctic-HYCOS working team (2013 -).
- Rapporteur for the Working group on hydrology, RA VI , Europe (1999-2001)

International Association of Hydrological Sciences (IAHS):

- President/Elect+Passed (2019-2027)
- 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 (2007-2012) of the scientific commission on water quality (ICWQ) and President-elect (2012-2013).

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 (funding) in the EU-projects: BALANS, EUROHARP, HARMONQUA, CLARIS2, GENESIS, GEOLAND2, MYOCEAN, OPERR, SIRIUS, ECLISE, SAWA, CPA, SUDPLAN, BALTADAPT, IMPACT2C, CRYOLAND, JERICO, EUPORIAS, SWITCH-ON.
- 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..."
- H-index according to Web of Science = 42 (Jan. 2023)
- Author or co-author of some 100 peer-reviewed scientific papers in international journals and numerous reports or international conference proceedings (some peer-reviewed). Editor of the book: "Understanding fresh-water quality problems in a changing world" IAHS press publ. 361 (2013)
- Presentations of scientific results at some 100 international conferences (some invited/Key-notes).
- Scientific referee for the international journals: e.g. Ambio, Aquatic Sciences, Biogeochemistry, HESS, Hydrobiologia, Hydrological Processes, Hydrological Sciences J., Nordic hydrology, J. Environmental Quality, J. Hydrology, J. the Total Environment, J. the American Water Resources Association, Biogeochemistry.
- Examiner in some 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, Swedish waterpower centre (SVC),

ESA, and European Union 4th , 5th and 7th FP for R&D.

- 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: Supervisor of 9 Post-Docs; 2007-2009: Dr. Temnerud; 2012-2014: Dr Traoe; 2014-2016: Dr. Kuentz; 2016-2018: Dr. Pinedas, Dr. Hassan, Dr. Crochemore, Dr. Leiva Pimentel, 2018-2020: Dr de Lavanne, Dr Santos.

Employment (4)

Swedish Meteorological and Hydrological Institute:

Norrköping, SE

2021-12-01 to present | Full Professor in Hydrology (R&D)

Employment

Source:Berit Arheimer

Swedish Meteorological and Hydrological Institute:

Norrköping, SE

2000-09-01 to 2022-12-31 | Head of Hydrology Research (Research and Development)

Employment

Source:Berit Arheimer

Swedish meteorological and hydrological institute (SMHI):

Norrköping, SE

1997-01-01 to 2000-08-30 | Researcher (Research department)

Employment

Source:Berit Arheimer

Linköpings universitet: Linköping, SE

1993-09-01 to 1996-12-31 | Doctoral candidate and Research assistant (Water and Environmental studies)

Employment

Source:Berit Arheimer

Education and qualifications (3)

Linköpings universitet: Linköping, SE

2006-01-01 to 2007-09-01 | Docent /Associate Professor (Water and Environmental studies)

Education

Source:Berit Arheimer

Linköpings universitet: Linköping, SE

1991-09-01 to 1999-01-29 | PhD (Water and Environmental Studies)

Education

Source:Berit Arheimer

Lunds Universitet: Lund, SE

1986-09-01 to 1991-06-30 | BSc (Geosciences)

Education

Source:Berit Arheimer

Funding (6)

FairWater

Svenska Forskningsrådet Formas (Stockholm)

2022-12 to 2026-12|Grant

Source:Berit Arheimer

AQUACLEW: Advancing the Quality of Climate Services for European Waters

European Commission and National Research councils (Brussels, Europe)

2017-10 to 2020-09|Grant

GRANT_NUMBER: EU JPI/ERA4CS FR-2017/0006

URL: <http://www.aquaclew.eu/> (<http://www.aquaclew.eu/>)

Source:Berit Arheimer

GLORIOUS: GLObal useRs In the cOpernicUs climate change Service

European Commission/ Copernicus/ ECMWF (Reading, Europe)

2017-09 to 2019-03|Contract

Part of GRANT_NUMBER: C3S_422_Lot1_SMHI

URL: <https://climate.copernicus.eu/> (<https://climate.copernicus.eu/>)

Source:Berit Arheimer

SWICCA: “Service for Water Indicators in Climate Change Adaption”

European Commission/ Copernicus/ ECMWF (Reading, Europe)

2015-11 to 2018-02|Contract

GRANT_NUMBER: 2015/C3S_441-LOT1/SHMI/SC1

Source:Berit Arheimer

SWITCH-ON: “Sharing Water-related Information to Tackle Changes in the Hydrosphere - for Operational Needs”

European Commission (Brussels, Europe)

2013-11 to 2017-11|Grant

GRANT_NUMBER: GA No. 603587

Source:Berit Arheimer

HYDROIMPACTS 2.0: “Strategic research of climate impact on hydrology”

Svenska Forskningsrådet Formas (Stockholm)

2009-12 to 2014-12|Grant

GRANT_NUMBER: 214-2009-525

Source:Berit Arheimer

Works (121 of 121)

Evaluation of parameter sensitivity of a rainfall-runoff model over a global catchment set

Hydrological Sciences Journal

2022 | journal-article

DOI: 10.1080/02626667.2022.2035388

EID: 2-s2.0-85125943487

Part of ISSN: 21503435 02626667

Source:Berit Arheimer via Scopus - Elsevier

Quantifying multi-year hydrological memory with Catchment Forgetting Curves

Hydrology and Earth System Sciences

2022 | journal-article

DOI: 10.5194/hess-26-2715-2022

EID: 2-s2.0-85131313085

Part of ISSN: 16077938 10275606

Source:Berit Arheimer via Scopus - Elsevier

Remote sensing-aided rainfall-runoff modeling in the tropics of Costa Rica

Hydrology and Earth System Sciences

2022 | journal-article

DOI: 10.5194/hess-26-975-2022

EID: 2-s2.0-85125438295

Part of ISSN: 16077938 10275606

Source: Berit Arheimer via Scopus - Elsevier

Designing a climate service for planning climate actions in vulnerable countries

Atmosphere

2021 | journal-article

DOI: 10.3390/ATMOS12010121

EID: 2-s2.0-85112284921

Part of ISSN: 20734433

Source: Berit Arheimer via Scopus - Elsevier

From local measures to regional impacts: Modelling changes in nutrient loads to the Baltic Sea

Journal of Hydrology: Regional Studies

2021 | journal-article

DOI: 10.1016/j.ejrh.2021.100867

EID: 2-s2.0-85111050176

Part of ISSN: 22145818

Source: Berit Arheimer via Scopus - Elsevier

Hydrological impacts of a wildfire in a Boreal region: The Västmanland fire 2014 (Sweden)

Science of the Total Environment

2021 | journal-article

DOI: 10.1016/j.scitotenv.2020.143519

EID: 2-s2.0-85097078647

Part of ISSN: 18791026 00489697

Source: Berit Arheimer via Scopus - Elsevier

Large-Scale Hydrological and Sediment Modeling in Nested Domains under Current and Changing Climate

Journal of Hydrologic Engineering

2021 | journal-article

DOI: 10.1061/(ASCE)HE.1943-5584.0002078

EID: 2-s2.0-85102040296

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Comparison of open access global climate services for hydrological data

Hydrological Sciences Journal

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DOI: 10.1080/02626667.2020.1820012

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Editorial—Towards FAIR and SQUARE hydrological data

Hydrological Sciences Journal

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DOI: 10.1080/02626667.2020.1739397

EID: 2-s2.0-85082429421

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Effect of model calibration strategy on climate projections of hydrological indicators at a continental scale

Climatic Change

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DOI: 10.1007/s10584-020-02874-4

EID: 2-s2.0-85091882045

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Global catchment modelling using World-Wide HYPE (WWH), open data, and stepwise parameter estimation

Hydrology and Earth System Sciences

2020 | journal-article

DOI: 10.5194/hess-24-535-2020

EID: 2-s2.0-85079096303

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Source: Berit Arheimer via Scopus - Elsevier

Lessons learnt from checking the quality of openly accessible river flow data worldwide

Hydrological Sciences Journal

2020 | journal-article

DOI: 10.1080/02626667.2019.1659509

EID: 2-s2.0-85074034131

Source: Berit Arheimer via Scopus - Elsevier

Streamflow prediction in “geopolitically ungauged” basins using satellite observations and regionalization at subcontinental scale

Journal of Hydrology

2020 | journal-article

DOI: 10.1016/j.jhydrol.2020.125016

EID: 2-s2.0-85084536739

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Source: Berit Arheimer via Scopus - Elsevier

A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers

Hydrology and Earth System Sciences

2019 | journal-article

DOI: 10.5194/hess-23-73-2019

EID: 2-s2.0-85059661977

Source: Berit Arheimer via Scopus - Elsevier

Changing climate both increases and decreases European river floods

Nature

2019 | journal-article

DOI: 10.1038/s41586-019-1495-6

EID: 2-s2.0-85071788448

Source: Berit Arheimer via Scopus - Elsevier

Detecting Changes in River Flow Caused by Wildfires, Storms, Urbanization, Regulation, and Climate Across Sweden

Water Resources Research

2019 | journal-article

DOI: 10.1029/2019WR024759

EID: 2-s2.0-85075022267

Source:Berit Arheimer via Scopus - Elsevier

Evolving climate services into knowledge-action systems

Weather, Climate, and Society

2019 | journal-article

DOI: 10.1175/WCAS-D-18-0087.1_rfseq1

EID: 2-s2.0-85065542609

Source:Berit Arheimer via Scopus - Elsevier

Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea

Ambio

2019 | journal-article

DOI: 10.1007/s13280-019-01243-5

EID: 2-s2.0-85073986565

Source:Berit Arheimer via Scopus - Elsevier

The impact of climatic extreme events on the feasibility of fully renewable power systems: A case study for Sweden

Energy

2019 | journal-article

DOI: 10.1016/j.energy.2019.04.128

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Source:Berit Arheimer via Scopus - Elsevier

Twenty-three unsolved problems in hydrology (UPH)—a community perspective

Hydrological Sciences Journal

2019 | journal-article

DOI: 10.1080/02626667.2019.1620507

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2018 | journal-article

DOI: 10.1016/j.cliser.2018.06.002

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Source:Berit Arheimer via Scopus - Elsevier**A geostatistical data-assimilation technique for enhancing macro-scale rainfall-runoff simulations***Hydrology and Earth System Sciences*

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DOI: 10.5194/hess-22-4633-2018

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DOI: 10.3389/fenvs.2018.00102

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Source:Berit Arheimer via Scopus - Elsevier**Constraining Conceptual Hydrological Models With Multiple Information Sources***Water Resources Research*

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DOI: 10.1029/2017WR021895

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Source:Berit Arheimer via Scopus - Elsevier**Impacts of 1.5 and 2.0 °C Warming on Pan-Arctic River Discharge Into the Hudson Bay Complex Through 2070***Geophysical Research Letters*

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DOI: 10.1029/2018GL079147

EID: 2-s2.0-85052550320

Source:Berit Arheimer via Scopus - Elsevier**A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1 °C, 2 °C and 3 °C***Climatic Change*

2017 | journal-article

DOI: 10.1007/s10584-016-1773-3

EID: 2-s2.0-84994460618

Source:Berit Arheimer via Scopus - Elsevier**Analysis of hydrological extremes at different hydro-climatic regimes under present and future conditions***Climatic Change*

2017 | journal-article

DOI: 10.1007/s10584-016-1723-0

EID: 2-s2.0-84976332539

Source:Berit Arheimer via Scopus - Elsevier**Arctic Mackenzie Delta channel planform evolution during 1983–2013 utilising Landsat data and hydrological time series***Hydrological Processes*

2017 | journal-article

DOI: 10.1002/hyp.11315

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Changing climate shifts timing of European floods*Science*

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DOI: 10.1007/s10584-016-1710-5

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Source:Berit Arheimer via Scopus - Elsevier**Lessons learned? Effects of nutrient reductions from constructing wetlands in 1996–2006 across Sweden***Ecological Engineering*

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DOI: 10.1016/j.ecoleng.2016.01.088

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DOI: 10.1038/s41467-017-00092-8

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Source:Berit Arheimer via Scopus - Elsevier**Reply to comment by Añel on “Most computational hydrology is not reproducible, so is it really science?”***Water Resources Research*

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DOI: 10.1002/2017WR020480

EID: 2-s2.0-85017024644

Source:Berit Arheimer via Scopus - Elsevier

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Water Resources Research

2017 | journal-article

DOI: 10.1002/2017WR020476

EID: 2-s2.0-85017403486

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Understanding hydrologic variability across Europe through catchment classification

Hydrology and Earth System Sciences

2017 | journal-article

DOI: 10.5194/hess-21-2863-2017

EID: 2-s2.0-85020695818

Source:Berit Arheimer via Scopus - Elsevier

A regional parameter estimation scheme for a pan-European multi-basin model

Journal of Hydrology: Regional Studies

2016 | journal-article

DOI: 10.1016/j.ejrh.2016.04.002

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Water Resources Research

2016 | journal-article

DOI: 10.1002/2016WR019285

EID: 2-s2.0-84991746993

Source:Berit Arheimer via Scopus - Elsevier

The evolution of root-zone moisture capacities after deforestation: A step towards hydrological predictions under change?

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Regional overview of nutrient load in Europe - Challenges when using a large-scale model approach, E-HYPE

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2011 | book

DOI: 10.1007/978-3-642-22285-6_71

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2011 | book

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Modelling climate change effects on nutrient discharges from the Baltic Sea catchment: Processes and results

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Multi-variable evaluation of an integrated model system covering Sweden (S-HYPE)

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EID: 2-s2.0-84860553123

Source:Berit Arheimer via Scopus - Elsevier

High-resolution, large-scale hydrological modelling tools for Europe

IAHS-AISH Publication

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An evaluation of multi-basin hydrological modelling for predictions in ungauged basins

IAHS-AISH Publication

2009 | conference-paper

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Source:Berit Arheimer*via*Scopus - Elsevier

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IAHS-AISH Publication

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Catchment modelling for quantification of swedish nutrient transport to the sea and effects of measures

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2007 | conference-paper

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Source:Berit Arheimer*via*Scopus - Elsevier

Modelling climate change impact on phosphorus load in Swedish rivers

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2007 | conference-paper

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Parameter precision in the HBV-NP model and impacts on nitrogen scenario simulations in the Rönneå river, southern Sweden

Ambio

2005 | journal-article

DOI: 10.1579/0044-7447-34.7.533

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EID: 2-s2.0-0036091319

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Ambio

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Erosion survey in an integrated project - some experiences from Venezuela, Erosionsstudie inom ett integrerat projekt - erfarenheter från Venezuela

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A decade of Predictions in Ungauged Basins (PUB) a review

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A model-supported participatory process for nutrient management: a socio-legal analysis of a bottom-up implementation of the EU Water Framework Directive

INTERNATIONAL JOURNAL OF AGRICULTURAL SUSTAINABILITY

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DOI: 10.1080/14735903.2011.582361

Source:Berit Arheimer

A systematic review of sensitivities in the Swedish flood-forecasting system

ATMOSPHERIC RESEARCH

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DOI: 10.1016/j.atmosres.2010.09.013

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Accelerating advances in continental domain hydrologic modeling

WATER RESOURCES RESEARCH

journal-article

DOI: 10.1002/2015WR017498

Source:Berit Arheimer

An integrated biogeochemical model system for the Baltic Sea

HYDROBIOLOGIA

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BALTEX-an interdisciplinary research network for the Baltic Sea region

ENVIRONMENTAL RESEARCH LETTERS

journal-article

DOI: 10.1088/1748-9326/6/4/045205

Source:Berit Arheimer

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AMBIO

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Climate change impact on water quality: Model results from southern Sweden

AMBIO

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Comparing reconstructed past variations and future projections of the Baltic Sea ecosystem-first results from multi-model ensemble simulations

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REGIONAL ENVIRONMENTAL CHANGE

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Source:Berit Arheimer

Description of nine nutrient loss models: capabilities and suitability based on their characteristics

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Development and testing of the HYPE (Hydrological Predictions for the Environment) water quality model for different spatial scales

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How participatory can participatory modeling be? Degrees of influence of stakeholder and expert perspectives in six dimensions of participatory modeling

WATER SCIENCE AND TECHNOLOGY

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DOI: 10.2166/wst.2007.453

Source:Berit Arheimer

Hydrological Climate Change Impact Assessment at Small and Large Scales: Key Messages from Recent Progress in Sweden

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DOI: 10.3390/cli4030039

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**INFLUENCE OF CATCHMENT CHARACTERISTICS,
FORESTRY ACTIVITIES AND DEPOSITION ON NITROGEN
EXPORT FROM SMALL FORESTED CATCHMENTS**

WATER AIR AND SOIL POLLUTION

journal-article

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Source:Berit Arheimer

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**Integrated catchment modeling for nutrient reduction:
Scenarios showing impacts, potential, and cost of
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AMBIO

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Source:Berit Arheimer

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Public participation, pricing policy, and catchment
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Source:Berit Arheimer

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LANDSCAPE AND URBAN PLANNING

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**MODELING THE EFFECTS OF WETLANDS ON REGIONAL
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Source:Berit Arheimer

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DOI: 10.1016/S0925-8574(02)00034-4

Source:Berit Arheimer

**Modelling nitrogen transport and retention in the
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Regional and global concerns over wetlands and water quality

TRENDS IN ECOLOGY & EVOLUTION

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DOI: 10.1016/j.tree.2005.11.015

Source:Berit Arheimer

Source apportionment of riverine nitrogen transport based on catchment modelling

WATER SCIENCE AND TECHNOLOGY

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DOI: 10.1016/0273-1223(96)00220-X

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Subannual models for catchment management: evaluating model performance on three European catchments

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Understanding flood regime changes in Europe: a state-of-the-art assessment

HYDROLOGY AND EARTH SYSTEM SCIENCES

journal-article

DOI: 10.5194/hess-18-2735-2014

Source:Berit Arheimer

Use of participatory scenario modelling as platforms in stakeholder dialogues

WATER SA

journal-article

EID: 2-s2.0-67649329646

Source:Berit Arheimer

Using catchment models to establish measure plans according to the Water Framework Directive

WATER SCIENCE AND TECHNOLOGY

journal-article

DOI: 10.2166/wst.2007.432

Source:Berit Arheimer

Using flow signatures and catchment similarities to evaluate the E-HYPE multi-basin model across Europe

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES

journal-article

DOI: 10.1080/02626667.2015.1027710

Source:Berit Arheimer

Variation of nitrogen concentration in forest streams influences of flow, seasonality and catchment characteristics

JOURNAL OF HYDROLOGY

journal-article

DOI: 10.1016/0022-1694(95)02831-5

Source:Berit Arheimer

Virtual laboratories: new opportunities for collaborative water science

HYDROLOGY AND EARTH SYSTEM SCIENCES

journal-article

DOI: 10.5194/hess-19-2101-2015

Source:Berit Arheimer

Water and nutrient predictions in ungauged basins: set-up and evaluation of a model at the national scale

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES

journal-article

DOI: 10.1080/02626667.2011.637497

Source:Berit Arheimer

Water and nutrient simulations using the HYPE model for Sweden vs. the Baltic Sea basin - influence of input-data quality and scale

HYDROLOGY RESEARCH

journal-article

DOI: 10.2166/nh.2012.010

Source:Berit Arheimer

Watershed modelling of nonpoint nitrogen losses from arable land to the Swedish coast in 1985 and 1994

ECOLOGICAL ENGINEERING

journal-article

DOI: 10.1016/S0925-8574(99)00063-4

Source:Berit Arheimer

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