Climes' fourth newsletter

September 2025 – February 2026

Welcome

The Swedish Centre for Impacts of Climate Extremes (climes) is a platform for research and training that promotes scientific progress in the study of climate extremes and supports societal resilience. The centre bridges the physical, medical, social, and engineering sciences, bringing together expertise across disciplines and institutions.

As 2026 unfolds, climes continues to expand its interdisciplinary research, partnerships, and outreach related to the impacts of climate extremes. In this fourth edition of the newsletter, we highlight key developments since the last issue, including the launch of the new climes website, recent training activities and seminars, new staff and affiliates, progress within the CLIMES Doctoral Network, and preparations for major international events and conferences. Learn more about climes' mission and activities at climes.se

New climes website launched

A new climes website has been launched at climes.se. The website provides an updated overview of the centre's research themes, people, events, training activities, and projects across Uppsala University, Lund University, and RISE. Researcher profiles, events, and centre information have been consolidated to improve accessibility and external communication.

https://www.climes.se

Scientific Events & Highlights

CLIMES DN kicking off soon – 14 PhD positions across Europe

The CLIMES Doctoral Network (CLIMES DN) was awarded funding under the EU Marie Skłodowska-Curie Actions programme in 2025 and is now entering its launch phase. CLIMES DN is a Europe-wide doctoral training programme focused on climate extremes and their impacts on society, health, and critical systems, with a strong emphasis on interdisciplinary research and advanced data-driven methods.
Recruitment has begun across the network. Several PhD positions are currently open, hosted at partner institutions across Europe, and the first doctoral candidates are expected to start in 2026.
More information: https://www.climes.se/climesdn

Funded by the European Union

Climate Impacts in a Changing World 2026 conference

The international conference *Climate Impacts in a Changing World 2026* will take place between 9–11 March and has already attracted substantial international interest. The call for abstracts resulted in almost 250 submissions from researchers across disciplines and regions.

The conference is now almost fully booked. The final programme will feature more than 50 poster presentations and over 80 oral presentations, reflecting a broad global participation spanning climate science, health, social sciences, engineering, and policy-relevant research on climate impacts.

More information: https://www.climes.se/impactsconference

Climes at EGU 2026

Climes will participate in the EGU General Assembly 2026, taking place in Vienna in spring 2026. Researchers affiliated with climes will contribute to scientific sessions, presentations, and discussions covering climate extremes, impacts, health, and data-driven approaches.

More information: https://www.climes.se/event/climes-at-egu-2026/

Recent climes seminars and webinars

During the period covered by this newsletter, climes organised and hosted interdisciplinary seminars addressing climate–health linkages and financial risks related to climate change.

- **Linking Climate Data and Health Data** – Speaker: Dr Alexia Sampri (Research Associate in Health Data Science, University of Cambridge). Hybrid seminar held on 30 September 2025 at 15:00 at Geocentrum, Uppsala University, and online via Zoom. The seminar presented methodological approaches for linking climate datasets with whole-population health records, focusing on cardiovascular outcomes, exposure definitions (e.g. heatwaves, floods, humidity), spatial and temporal alignment, and governance challenges in climate–health analytics.

- **Climate Change and Sovereign Debt: Are Financial Markets Pricing the Risks?** – Speaker: Marianna Blix Grimaldi (Adviser, Financial Stability Department, Sveriges Riksbank). Hybrid seminar held on 12 February 2026 at 14:00 at the Department of Earth Sciences, Uppsala University, and online. The seminar examined how transition risks (e.g. carbon-intensive economies) and physical climate risks (e.g. floods, storms, droughts) influence sovereign borrowing costs. Drawing on global data from 52 countries, the presentation highlighted implications for financial stability, fiscal space, and climate-related risk assessment in sovereign bond markets.

  More information: www.climes.se/events

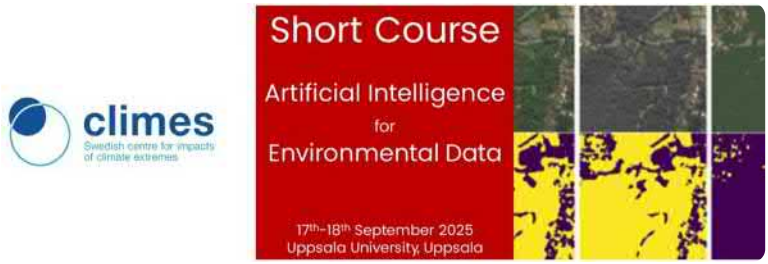
Speaker highlight

Marianna Blix Grimaldi is an economist working at the Central Bank of Sweden, specialising in the intersection of climate change, macroeconomics, and financial markets. Her work focuses on how climate-related risks are assessed and priced by financial systems, including sovereign debt markets. In her seminar, she addressed the implications of climate change for financial stability and public finance, contributing an economic perspective to climes' interdisciplinary discussions on climate impacts.

Graduate School

Short Course on Artificial Intelligence for Environmental Data

A Short Course on Artificial Intelligence for Environmental Data was held on 17–18 September 2025 at Blåsenhus, Uppsala University. The course focused on practical applications of machine learning and AI methods for environmental and climate-related data, combining lectures with hands-on exercises. Participants included early-career researchers and students working across climate science, data science, and related fields.



Interdisciplinary course on climate and global health

An interdisciplinary Global Health course focusing on climate, health, and research methods was delivered during autumn 2025 at Karolinska Institutet. The course brought together researchers and students from multiple disciplines, addressing links between climate variability, climate extremes, and health outcomes, as well as methodological approaches used in climate–health research.

More information: www.climes.se/graduateschool

Outreach & Stakeholder Engagement

SciFest 2025

Climes participated in SciFest 2025, held on 9–11 October 2025 at Fyrishov Arena in Uppsala. The centre contributed interactive activities aimed at communicating climate science, climate impacts, and societal responses to climate extremes to a broad audience. Through hands-on demonstrations and dialogue-based outreach, climes researchers engaged with students, families, and educators, highlighting how interdisciplinary research can help understand and respond to climate-related challenges.

Ongoing: Kallt och Svettigt, A Citizen Science Project

The nationwide citizen science project *Kallt och Svettigt*, led by climes researchers, received media coverage highlighting the participation of more than 6,000 school pupils contributing to climate research at Uppsala University.
More information:
https://www.uu.se/en/news/2025/2025-04-08-school-children-invited-to-contribute-to-climate-research

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Climes in the media

Live international TV interview on extreme weather risks – climes expertise was represented in an international broadcast through a live expert interview on extreme weather risks on Sky News in October 2025, reaching a broad global audience.
https://www.youtube.com/live/Q8A7zD9zFT0?t=27426s
Citizen science project Kallt och Svettigt featured in popular science media – The nationwide citizen science project Kallt och Svettigt, led by climes researchers, received media coverage highlighting the participation of more than 6,000 school pupils contributing to climate research at Uppsala University.
https://vetenskapallmanhet.se/2025/08/gastkronika-mer-an-6000-skolelever-hjalper-till-med-uppsala-universitets-forskning/

More information: https://www.climes.se/outreach

Join Us on LinkedIn. ~3000

Our LinkedIn page is heading on to have 3K followers. Please make sure to follow to get updates instantly.

Go to: LinkedIn.

Staff updates

New Team Member:

Charlotte Maybom

Charlotte Maybom has joined climes as a postdoctoral researcher, strengthening the centre's expertise in climate adaptation and policy. Her research examines how climate risks and responses are understood, governed, and experienced across different social and institutional contexts, with a particular focus on adaptation processes and decision-making. Welcome!

Sanja Duvnjak Žarković to Vattenfall

Sanja is transitioning to a new role at Vattenfall and will leave climes soon. We congratulate Sanja on her appointment and thank her for her continued engagement with the centre.

New Affiliates

Several researchers have recently been formally affiliated with climes, expanding the centre's interdisciplinary expertise: Louis Delannoy, Riccardo B. Navarro, Manuel M. O. Nocentini, Markus Simon, Fan Wang.

Affiliate highlight:

Prof. Giuliano di Baldassarre has recently joined climes as an affiliate, bringing extensive expertise in hydrology, flood risk, and the societal impacts of climate extremes.

🤝 We are hiring!

CLIMES DN is hiring 14 PhD students across Europe
🔗 www.climes.se/climesdn
The CLIMES Doctoral Network (CLIMES DN) is now recruiting 14 doctoral candidates to work on one of the most urgent scientific challenges of our time: understanding and predicting the impacts of climate extremes under global change.
CLIMES DN is a Marie Skłodowska-Curie Actions (MSCA) Doctoral Network bringing together universities, research institutes, and non-academic partners across Europe. The network combines climate science, health, environmental modelling, data science, and risk assessment — training a new generation of interdisciplinary researchers working at the science–impact interface.

Publications

Is your climes publication not featured here? Let us know and we will include it in the next climes newsletter!

Skillful heat-related mortality forecasting during recent deadly European summers
E. Holmberg & G. Messori (2025) — Combines temperature forecasts with exposure–response relationships to show useful skill in predicting heat-related mortality days ahead.
Link: https://www.pnas.org/doi/10.1073/pnas.2426516122

SHEDIS-Temperature: Linking temperature-related disaster impacts to subnational meteorology & human exposure
S. Lindersson & G. Messori (2025) — Introduces a dataset connecting temperature impacts with detailed meteorological and population data to support regional impact assessments.
Link: https://essd.copernicus.org/articles/17/6379/2025/

Impact of Weather Extremes on the Swedish Power System
S. D. Zarkovic, M. Kurfalı & G. Messori (2025) — Analyses how extremes affect electricity generation and transmission resilience in Sweden (publication without external link noted).
Link: *https://ieeexplore.ieee.org/document/11305246*

ClimateEval: A Comprehensive Benchmark for NLP Tasks Related to Climate Change
M. Kurfalı, S. Zahra, J. Nivre & G. Messori (2025) — Presents an NLP benchmark for assessing large language models on

climate-related tasks.
Link: https://aclanthology.org/2025.climatenlp-1.13/

Compounding droughts and floods amplify socio-economic impacts
K. Worou & G. Messori (2025) — Shows how hazard interactions lead to disproportionately large socio-economic impacts.
Link: https://iopscience.iop.org/article/10.1088/1748-9326/adfe82

Risk perception of climate change and global crises: Influences of socio-economic drivers and political orientations
E. Raffetti & S. Döring (2025) — Survey analysis demonstrating how socio-economic context and politics shape climate risk perceptions.
Link: https://www.nature.com/articles/s41599-025-05349-y

Dynamics of the polycrisis: temporal trends, spatial distribution, and co-occurrences of national shocks (1970–2019)
L. Delannoy (2025) — Global analysis of national shocks across multiple domains, highlighting increasing systemic vulnerability.
Link: https://www.cambridge.org/core/journals/global-sustainability/article/dynamics-of-the-polycrisis-temporal-trends-spatial-distribution-and-cooccurrences-of-national-shocks-19702019/232945EED7B0532CA7212EBD6D693E27

Towards CS4L&D: Advancing climate services for loss and damage
M. Scown & E. Boyd (2025) — Proposes priorities for climate services that support decision-making on loss and damage.
Link: https://www.sciencedirect.com/science/article/pii/S240588072500024X

Assessing climate change impacts on the March 2024 compound floods and Saharan dust outbreak in Europe
G. Messori (2025) — Event-based analysis linking compound extreme outcomes to climate change.
Link: https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2024JD042218

CLIMK–WINDS: A New Database of Extreme European Winter Windstorms
C. M. Flynn, M. K. Schutte & G. Messori (2025) — New dataset with consistent metrics for European winter windstorm footprints.
Link: https://essd.copernicus.org/articles/17/4431/2025/

El Niño and droughts in Southeast Asia: A stochastic-chaotic modeling approach
G. Messori (2025) — Minimal model assessing how El Niño influences drought risk thresholds.
Link: https://journals.aps.org/pre/abstract/10.1103/PhysRevE.111.064209

Global mapping of concurrent hazards and impacts associated with climate extremes under climate change
G. Messori (2025) — Global multi-sector assessment showing a shift toward recurrent compound extremes.
Link: https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2025EF006325

Challenges in understanding the effect of climate extremes and climatic factors on maternal and infant health
E. Raffetti, G. Messori & S. Döring (2026) — Examines data and methodological gaps in assessing how climate extremes affect maternal and infant health, highlighting challenges in exposure assessment and vulnerability integration.
Link: https://www.nature.com/articles/s44360-025-00030-9

The Accuracy Cost of Weakness: A Theoretical Analysis of Fixed-Segment Weak Labeling for Events in Time
O. Mogren (2025) — Theoretical analysis of weak labeling strategies in time-series event detection, modelling trade-offs between annotation cost and accuracy in supervised machine learning.
Link: https://openreview.net/pdf?id=tTw8wXBQ18

Exploring public risk perception of multiple hazards through network analysis
E. Raffetti (2025) — Uses network analysis to examine how individuals perceive interconnected climate and societal risks, identifying patterns relevant for communication and policy design.
Link: https://pubmed.ncbi.nlm.nih.gov/40741134/

Cardiovascular Child Health in a Changing Climate
E. Raffetti (2025) — Reviews emerging evidence on climate-related risks to cardiovascular health in children and outlines research and policy implications.
Link: https://academic.oup.com/eurheartj/advance-article-abstract/doi/10.1093/eurheartj/ehaf1083/8443522?redirectedFrom=fulltext

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Related projects

Explore projects related to climes, where our researchers lead innovative initiatives to understand and mitigate climate impacts. From developing advanced climate databases to pioneering ecological monitoring techniques, discover the diverse and groundbreaking work being conducted within climes.

Learn more about these projects at climes.se/relatedprojects.

Highlighted project:

Grey to Green:
AI Support for Transforming Surfaces into Multifunctional Green Spaces

Project Lead: Olof Mogren (climes PI)
Duration: 2024–2027

This project is developing an AI- and GIS-based decision support tool to optimise how impervious urban surfaces can be transformed into multifunctional green spaces, improving climate resilience, ecosystem services, and urban quality of life.

More information:
https://www.ri.se/en/climate-adaptation/project/ai-support-for-transforming-surfaces-into-multifunctional-green-spaces