

# Climes' fifth newsletter

March - August 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.

The past six months have marked another important period for climes, with major milestones in research, training, international collaboration, and public engagement. This edition highlights the successful Climate Impacts in a Changing

World 2026 conference, the release of a new policy brief on healthcare preparedness, the 2026 Summer School, continued growth of the CLIMES Doctoral Network, and recent scientific publications and media engagement.

Learn more about climes at [www.climes.se](http://www.climes.se).

# Highlights of the period

Climate Impacts in a Changing World 2026 successfully brought together around 200 researchers and practitioners from around the world. The 2026 Summer School welcomed a new cohort of interdisciplinary early-career researchers. A new policy brief, *Healthcare Preparedness in a Changing Climate*, was released. Climes researchers contributed extensively to the EGU General Assembly 2026. The CLIMES Doctoral Network continued its development following the recruitment phase. New scientific publications advanced research on climate impacts, health, artificial intelligence, and societal resilience.



## Scientific Events & Highlights

### Climate Impacts in a Changing World 2026

The international conference *Climate Impacts in a Changing World 2026* was held in Uppsala between 9–11 March 2026. The conference attracted participants from across the globe and reached full capacity, reflecting strong international interest in interdisciplinary climate-impact research. The scientific programme featured more than 80 oral presentations and over 50 poster presentations covering climate science, health, artificial intelligence, engineering, social sciences, governance, and adaptation.



More information: [www.climes.se/impactsconference](http://www.climes.se/impactsconference)

# Climes at EGU 2026

Climes researchers participated actively in the European Geosciences Union General Assembly 2026 in Vienna, contributing as conveners, presenters, and session organisers across topics including climate extremes, health, artificial intelligence, hydrology, and societal impacts.

In total, climes researcher and affiliates held over 25 oral or poster presentations and session convenerships.

More information: [www.climes.se/event/climes-at-egu-2026/](http://www.climes.se/event/climes-at-egu-2026/)



# Recent seminars and workshops

Recent seminars hosted by climes continued to bring together experts from different disciplines.

## **Climate, Environment, and Human Health: Risks from Weather Extremes and Polluted Air**

**Speaker:** Alexandra Schneider (Helmholtz Zentrum München). Hybrid seminar held on 5 March 2026 at Geocentrum, Uppsala University, and online. The seminar explored how weather extremes, air pollution, noise, and urban environments influence cardiovascular, metabolic, and respiratory health, with a focus on vulnerable populations and implications for climate adaptation and public health.

## **AI in the Wild: How Neural Networks Help Us Understand Our World Through Sound**

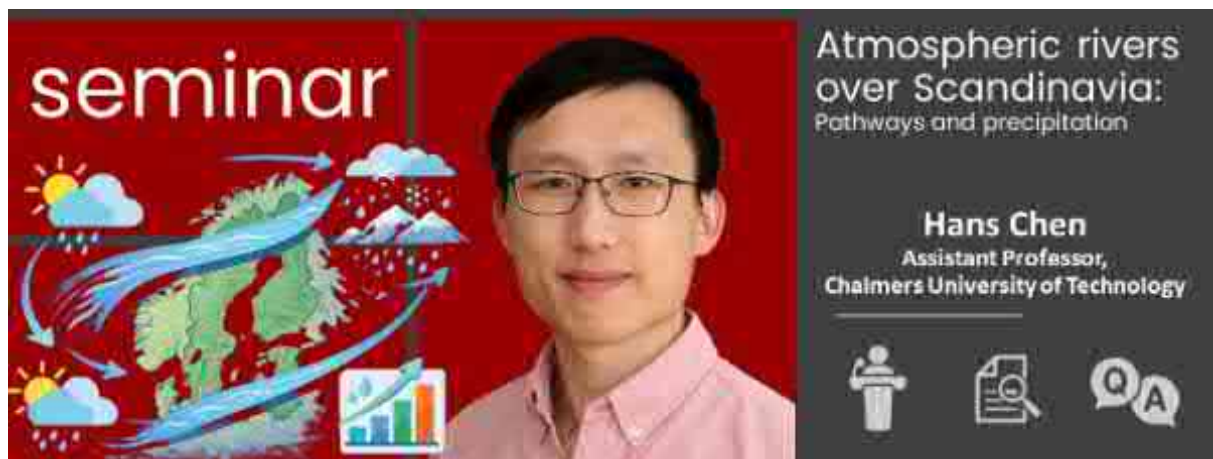
**Speaker:** Jeppe Have Rasmussen (University of Copenhagen). Seminar held at RISE Gothenburg on 26 March 2026. Through examples spanning terrestrial and marine ecosystems, the seminar demonstrated how artificial intelligence and bioacoustics can improve biodiversity monitoring, conservation, and our understanding of animal behaviour and communication.

## **Atmospheric Rivers over Scandinavia: Pathways and Precipitation**

**Speaker:** Hans Chen (Chalmers University of Technology). Hybrid seminar held on 9 April 2026 at Geocentrum, Uppsala University, and online. The seminar presented new research on atmospheric rivers over Scandinavia, showing how these relatively infrequent weather systems contribute disproportionately to regional precipitation and influence hydroclimate across northern Europe.

## **Highlighted speaker: Hans Chen**

- Hans Chen, Assistant Professor at Chalmers University of Technology, with expertise in artificial intelligence and machine learning for climate applications. His research focuses on developing data-driven methods that improve environmental monitoring, climate modelling, and decision support, illustrating the growing role of AI within interdisciplinary climate research.





# Graduate School

## Summer school 2026 completed

The 2026 Summer School brought together doctoral students and postdoctoral researchers for several days of interdisciplinary training on climate extremes and their societal impacts. Through lectures, practical exercises, and discussions, participants explored topics including climate modelling, artificial intelligence, health, adaptation, and resilience while exchanging ideas across disciplines and institutions.

More information: [www.climes.se/summerschool](http://www.climes.se/summerschool)



## CLIMES Doctoral Network

The CLIMES Doctoral Network continues to develop and has completed the recruitment of candidates for the 14 doctoral projects forming the network.

The network brings together universities, research institutes, and societal partners across Europe to train a new generation of interdisciplinary researchers working on climate extremes and their societal impacts.

Preparations are underway for the first joint activities bringing together doctoral candidates and supervisors across the consortium. The first Training Event is scheduled to 23- 27 November. The meeting will gather all 14 doctoral students and the supervisors in Uppsala.

Below is a hello from the Beneficiaries' online Kick Off Meeting earlier in spring.

More information: [www.climes.se/climesdn](http://www.climes.se/climesdn)



# Outreach & Stakeholder Engagement

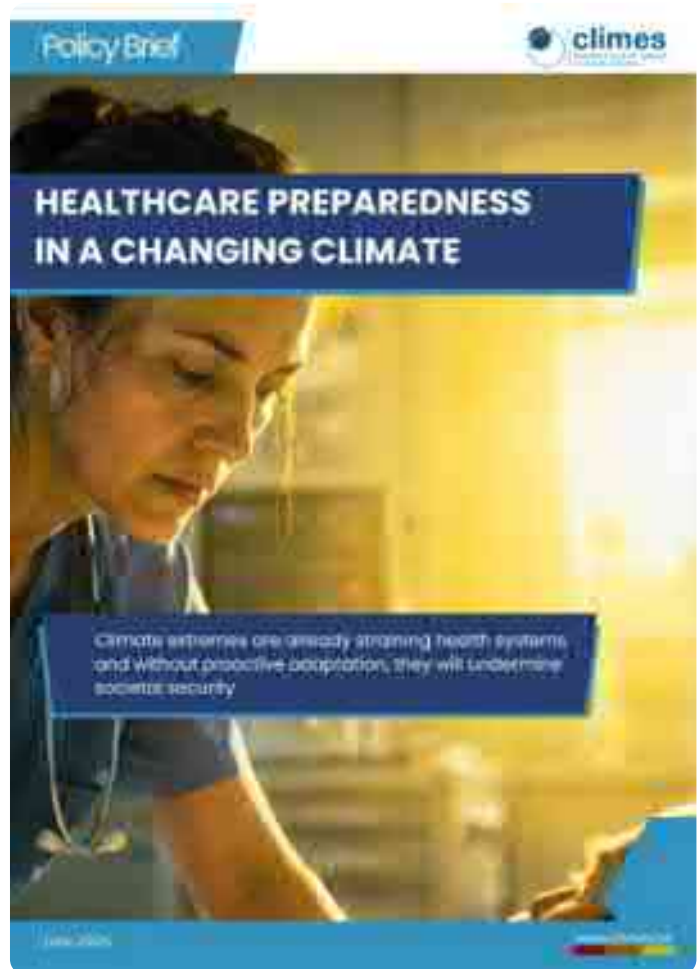
## New policy brief on healthcare preparedness

Climes released the policy brief **Healthcare Preparedness in a Changing Climate**, highlighting the growing challenges that climate change poses for healthcare systems and the need for proactive adaptation. Drawing on interdisciplinary research, the brief outlines how extreme heat and other climate-related hazards are expected to increase pressure on healthcare services and identifies key actions to strengthen preparedness and resilience.

Following its release, the policy brief received attention through media coverage from [Sveriges Radio](#) and stakeholder engagement activities including a [seminar with high-profile guests](#) amongst which the head of the Public Health Agency of Sweden.

The publication forms part of climes' commitment to translating research into accessible, evidence-based guidance for policymakers, healthcare professionals, and other decision-makers.

More information: [www.climes.se/outreach/policybriefs](http://www.climes.se/outreach/policybriefs)



## SciFest 2026

Preparations are underway for Scifest 2026 which will be held on 8-10 October where climes will once again participate with interactive activities highlighting research on climate extremes and their impacts on society. Through hands-on demonstrations and discussions, visitors of all ages will have the opportunity to explore how climate research is conducted and how scientific knowledge can support adaptation and resilience. SciFest continues to be an important platform for engaging schools, families, and the wider public with climate science.

More information: <https://www.scifest.se/w/sf/en>



# Ongoing: Kallt och Svettigt, A Citizen Science Project

The nationwide citizen science project *Kallt och Svettigt* is now approaching completion after engaging school pupils across Sweden over the past year. By collecting local temperature measurements together with information on how people perceive thermal comfort, participants have contributed valuable data for research on climate, the built environment, and human wellbeing.

Schools have already received a preliminary summary of the collected data, while additional measurements are expected throughout the summer before the project concludes. The project has also provided a unique opportunity to engage young people in climate research.

More information:

<https://www.uu.se/en/news/2025/2025-04-08-school-children-invited-to-contribute-to-climate-research>



# International delegation visit from Türkiye

Climes welcomed a delegation from Türkiye as part of the Swedish Institute's ClimAct project, focusing on strengthening collaboration on climate research, societal resilience, and policy-relevant knowledge exchange.

More about their project: <https://women-led-climate-act.eu/>





## + Join Us on LinkedIn. 4100+

Our LinkedIn page now has more than 4100 followers.  
Please make sure to follow to get updates instantly.

[Go to: LinkedIn.](#)



## Climes in the media

Climes research continued to receive attention in national and international media

- **Uppsala aims to take a leading role in climate research** – *Uppsala University*, March 2026. Gabriele Messori highlighted climes' role in strengthening interdisciplinary research on climate extremes and their societal impacts. [Link](#)
  - **Heatwave warning systems for healthcare** – *Sveriges Radio*, 2026. Gabriele Messori discussed how climate and health data can support healthcare preparedness during severe heatwaves. [Link](#)
  - **The climate report: “Many societies may have reached their limits”** (*In Swedish*) – *Vetenskapsradion, Sveriges Radio*, June 2026. Gabriele Messori commented on the increasing occurrence of extreme heat and the risks it poses to societies. [Link](#)
  - **The World** – *Australian Broadcasting Corporation News*, 24 June 2026. Gabriele Messori contributed to international coverage of extreme heat in Europe and its connection to climate change. [Watch](#)
  - **Why Europe is being hit by heat – just as researchers warned** (*In Swedish*) – *Göteborgs-Posten*, May 2026. Gabriele Messori contributed to coverage of Europe's extreme heat and its links to climate change. [Link](#)
  - **Wildfires rage across Europe – thousands evacuated** (*In Swedish*) – *Göteborgs-Posten*, July 2026. Gabriele Messori contributed to coverage of widespread European wildfires and their connection to extreme heat and changing climate conditions. [Link](#)
  - **How heat and wildfires intensify as the atmosphere becomes drier** (*In Swedish*) – *Vetenskapsradion, Sveriges Radio*, July 2026. Gabriele Messori discussed how a warmer and drier atmosphere can intensify heat and wildfire risk. [Link](#)
  - **How Sweden can cope with future heatwaves** (*In Swedish*) – *Vetenskapsradion, Sveriges Radio*, July 2026. Gabriele Messori discussed future heatwave risks in Sweden and the importance of preparing for more frequent and intense extreme heat. [Link](#)
  - **Report: Europe's heatwave is caused by climate change** (*In Swedish*) – *Dagens Nyheter*, June 2026. Gabriele Messori contributed to coverage of the European heatwave and the role of climate change in driving extreme heat. [Link](#)
-

# Staff updates

## Highlighted affiliate



### Maria Rusca

Professor Maria Rusca has recently joined climes as an affiliate. Her research focuses on water governance, climate adaptation, urban development, and environmental justice, with particular emphasis on how water-related challenges intersect with social inequalities and public policy. Through her interdisciplinary work, she contributes valuable expertise to climes' research on the societal impacts of climate extremes.

## All new affiliates

Several researchers have recently been formally affiliated with climes, further expanding the centre's interdisciplinary expertise and strengthening collaboration across partner institutions.

New affiliates include **Louis Delannoy**, **Maria Rusca**, **Shruti Kashyap**, **Hans Chen**, **Johan Gars**, **Alok Samantaray**, **Ricardo Berenguer Navarro**, **Manuel M. O. Nocentini**, **Markus Simon**, **Michael Schutte**, **Leonardo Olivetti**, **Ulrika Lundin Glans**, **Georgios Filippis**, **Fangyuan Cheng**, and **Xinyu Yang**.

---

# Publications

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

(Climes authors in **bold**.)

### Climate change litigation and intersectionality in climate justice

**E. Boyd**, E. Schill, **E. G. Pobiega** & J. Soo (2026) — Examines how intersectionality shapes climate change litigation and climate justice outcomes, highlighting how legal processes engage with overlapping social inequalities and influence climate governance.

Link: <https://www.sciencedirect.com/science/article/pii/S0959378026000208>

### Seasonal Pre-Planting Drought Impact-Based Forecasting of Crop Yield in India

A. Shyrokaya, S. Uttarwar, **A. Samantaray**, F. Pappenberger, **G. Di Baldassarre**, I. Pechlivanidis, F. Stainoh, B. Majone & **G. Messori** (2026) — Presents an impact-based forecasting framework for predicting crop yields in India by integrating seasonal drought forecasts with agricultural outcomes.

Link: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2025EF007128>

### **Dynamically-Informed Extreme Event Attribution Using Circulation Imprints**

J. Oldham-Dorrington, **G. Messori** (2026) — Introduces a dynamically informed framework for attributing extreme events using atmospheric circulation imprints to improve understanding of climate-driven extremes.

Link: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2025GL116869>

### **Large-scale atmospheric circulation and its impact on the Baltic Sea Region: Controls, Predictability and Consequences**

F. Börgel, I. Ruvalcaba Baroni, L. Barghorn, L. Borchert, B. Cahill, C. Dutheil, L. Esters, M. Falarz, H. L. Filipsson, M. Gröger, J. Hänninen, M. Hieronymus, E. Jakobson, M. P. Karami, K. Kuliński, T. Liblik, H. E. Markus Meier, **G. Messori**, L. Naumov, T. Neumann, P. Post, G. Rehder, A. Rutgersson, and G. S. Voelker. (2026) — Reviews the large-scale atmospheric circulation patterns influencing the Baltic Sea region and their implications for climate variability, predictability, and extreme events.

Link: <https://esd.copernicus.org/articles/17/415/2026/>

### **WikilImpacts 1.0: A New Global Climate Impact Database Based on Automated Information Extraction from Wikipedia**

**S. Zahra, K. Worou, M. Kurfali, C. Flynn, J. Nivre & G. Messori** (2026) — Introduces WikilImpacts 1.0, an open global database of climate impacts generated through automated information extraction from Wikipedia to support climate impact research and disaster analysis.

Link: <https://nhess.copernicus.org/articles/26/2609/2026/>

### **Human-Induced Westerly Jet Shifts Coordinate Terrestrial Productivity at the Hemispheric Scale**

X. Yang, A. Dai, **G. Messori**, B. He, Z. Li, Z. Zhong, X. Yuan, C.-H. Ho, D. Coumou, B. Zhou, and D. Chen. (2026) — Investigates how anthropogenic shifts in the westerly jet influence terrestrial ecosystem productivity across the Northern Hemisphere.

Link: <https://www.nature.com/articles/s41467-026-74039-3>

### **Invited perspectives: Towards usable compound event research**

K. Kornuber, E. Bevacqua, M. M. de Brito, W. S. Jäger, P. Rivoire, C. D. W. Rogers, F. Banfi, F. Batibeniz, J. Carruthers, C. de Michele, S. de Angeli, C. Deidda, M. C. de Ruiter, A. H. Fink, H. M. D. Goulart, K. Küpfer, P. Ludwig, D. Maraun, **G. Messori**, S. Nath, F. O'Loughlin, J. G. Pinto, B. Poschlo, A. M. Ramos, C. Raymond, A. F. S. Ribeiro, D. Singh, L. Suarez Gutierrez, P. J. Ward, and C. J. White. (2026) — Discusses future directions for developing compound event research that better supports decision-making and climate adaptation.

Link: In press

### **The emergency events database, EM-DAT, must be preserved as a global public good**

N. Speybroeck, I. Noy, A. Kettner, R. Below, **G. Messori**, W. Thiery, V. Wathelet, A. Jézéquel, D. Delforge, and D. Van Niekerk. (2026) — Explores the importance of the EM-DAT disaster database as a global public good and discusses the implications of threats to its long-term sustainability.

Link: <https://www.ssph-journal.org/journals/international-journal-of-public-health/articles/10.3389/ijph.2026.1609990/full>

### **Impact of Weather Extremes on the Swedish Power System**

**S. Duvnjak Žarković, M. Kurfali, and G. Messori.** (2025) — Analyses how weather extremes affect electricity generation and transmission resilience in Sweden.

Link: <https://ieeexplore.ieee.org/document/11305246>

### **Assessing the Real-World Economic Value of Weather Forecasts under Compounding Extremes: A Decision-Specific Framework**

**L. Olivetti, G. Messori, P. Avner, and S. Hallegatte.** (2026) — Proposes a framework for assessing the economic value of

weather forecasts under compound extreme events, supporting decision-making in climate risk management.

Link: <https://openknowledge.worldbank.org/entities/publication/066ecb23-4735-4440-80ad-5149048dcc49>

### **Challenges and Opportunities for Understanding Societal Impacts of Climate Extremes**

**G. Messori, E. Boyd, J. Nivre & E. Raffetti** (2026) — Examines the conceptual and methodological challenges of understanding the societal impacts of climate extremes and outlines priorities for advancing interdisciplinary impact research.

Link: <https://esd.copernicus.org/articles/17/199/2026/esd-17-199-2026.html>

### **Drought amplifies the psychological burden of war**

**S. Döring**, T. Hecker, and J. Hall (2026) — Examines how drought exposure affects the psychological consequences of war among Syrian and Iraqi refugees, finding that drought amplifies the association between war-related trauma and post-traumatic stress.

Link: <https://www.nature.com/articles/s41893-026-01882-z>

---



## 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](https://climes.se/relatedprojects).

### Highlighted project:

#### **AIR-DATES: The Impact of Air Temperature Variability on Population Health in a**



#### **Changing Climate: Past Trends, Ongoing Adaptation, and Future Scenarios**

**Duration:** 2026–2030

**Project Lead:** Elena Raffetti

AIR-DATES investigates how variability in air temperature affects population health in a changing climate, using Sweden and England as case studies. By analysing historical trends, current adaptation, and future climate scenarios, the project aims to improve understanding of temperature-related health risks and generate evidence that can support healthcare planning, climate adaptation, and public health policy.

Read more:

<https://www.climes.se/researchhub/relatedprojects/>