



PROGRAM

Danish Climate Science Symposium 2025

Hosted by the National Center for Climate Research,
Danish Meteorological Institute

October 23–24, 2025

CPH Conference, Tietgensgade 65, 1704 Copenhagen



Danish
Climate Science
Symposium
2025

PROGRAM

October 23-24, 2025, CPH Conference Tietgensgade 65, 1704 Copenhagen

DAY 1

Thursday, October 23 2025

8.45 **COFFEE & BREAKFAST**

9.15 **PLENARY SESSION**

Welcome by Adrian Lema

Emerging Complexity of Climate Feedbacks from the Biosphere - Riikka Rinnan

Poster lightning pitches

11.00 **COFFEE & POSTERS**

11.45 **SESSIONS IN TWO TRACKS**

1: Recent Warming Trends: Expected or Beyond Models?

2: Mitigation Challenges and Solutions - from Denmark to the Global Stage

12.45 **LUNCH**

13.45 **SESSIONS IN TWO TRACKS**

1: Monitoring the Changing Climate

2: Communicating Climate Change to the General Public

15.00 **COFFEE BREAK**

15.45 **PLENARY SESSION**

Biodiversity in a Changing Climate

16.45 **FOOD FOR THOUGHT**

When We Get the Facts Right but the Feelings Wrong: Science, Fiction, and Pedagogy in the Climate Endgame - Mikkel Krause Frantzen

17.30 **PRE-DINNER DRINKS**

18.00 **DINNER**

See detailed program for each plenary session and track sessions on the next pages



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DAY 2

Friday, October 24 2025

8.45 **COFFEE & BREAKFAST**

9.15 **PLENARY SESSION**

Welcome

Storm Surges and Coastal Flooding in
Denmark - Projections and Adaptation

10.45 **COFFEE & POSTERS**

11.30 **SESSIONS IN TWO TRACKS**

1: Arctic Climate
and Ecosystem
Impacts

2: Climate Challenges
in Cities and
Copenhagen as an
IPCC Case Study

12.45 **LUNCH**

13.45 **PLENARY SESSION**

Tipping points: Past, Present and Future

15.00 **ROUND OFF AND THANK YOU!**

*See detailed program for each plenary session
and track sessions on the next pages*

nckf@dmf.dk



dmf.dk/nationalt-center-for-klimaforfknfng



The Danish Climate Science Symposium is hosted by
the National Center for Climate Change (NCKF) at
the Danish Meteorological Institute (DMI)



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DAY 1 SESSIONS

THURSDAY 09.15-11.00 | PLENARY SESSION

Welcome, Opening Talk, and Poster Lightning Pitches

Hosted by Adrian Lema, Danish Meteorological Institute

- Welcome to the Danish Climate Science Symposium 2025
- Opening Talk: Emerging Complexity of Climate Feedbacks from the Biosphere | *Riikka Rinnan, VOLT, University of Copenhagen*
- Poster Lightning Pitches

THURSDAY 11.45-12.45 | TRACK SESSIONS

Track 1: Recent warming trends: Expected or Beyond Models?

Hosted by Rashed Mahmood, Danish Meteorological Institute

- Climate Sensitivity and the Hottest Years on Record | *Peter L. Langen, iClimate, Aarhus University*
- Recent Warming Trend: Possible Drivers and Climate Model Projections | *Shuting Yang, Danish Meteorological Institute*
- Recent Changes in the Antarctic Ice Sheet Budget: Some Expected and Unexpected Developments | *José Abraham Torres Alavez, Danish Meteorological Institute*

Track 2: Mitigation Challenges and Solutions – from Denmark to the Global Stage

Panel conversation hosted by Adrian Lema, Danish Meteorological Institute

- Peter Mølgaard, Danish Council on Climate Change
- Anne Olhoff, UNEP Copenhagen Climate Centre
- Jens Mattias Clausen, CONCITO
- Asser Rasmus Berling, Ministry of Climate, Energy and Utilities

THURSDAY 13.45-15.00 | TRACK SESSIONS

Track 1: Monitoring the Changing Climate

Hosted by Jacob L. Høyer, Danish Meteorological Institute

- New Indicators for Monitoring Arctic Warming | *Pia Englyst, Danish Meteorological Institute*
- From Satellites to Digital Twins: Operational Monitoring of the Greenland Ice Sheet | *Sebastian Bjerregaard Simonsen, DTU Space*
- Global and Regional Sea Level Rise and Acceleration as seen from Satellite | *Ole Baltazar Andersen, DTU Space*

See track 2 on the next page



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DAY 1 SESSIONS

THURSDAY 13.45-15.00 | TRACK SESSIONS

See track 1 on the previous page

Track 2: **Communicating Climate Change to the General Public**

Hosted by Martin Olesen, Danish Meteorological Institute

- Why Talking About the Weather Matters | *Nina Bendixen, Climate Journalist*
- Engineering Climate Solutions in the Classroom | *Julie Lindholm, Engineer The Future*
- Collaborations Between Science Educators and Climate Scientists | *Bjarke Takashi Røjle Christensen, NBI, Copenhagen University*
- Data Comics – A New Yet Familiar Medium for Climate Communication | *Caroline Rosenberg Antonsen & Sarah Bagge Valsborg, IT University of Copenhagen*

THURSDAY 15.45-16.45 | PLENARY SESSION

Biodiversity in a Changing Climate

Hosted by Alexander Hayward, Danish Meteorological Institute

- What is the Ecoclimate Sensitivity of Terrestrial Vegetation? Estimates from the Last Deglaciation | *Jack Williams, University of Wisconsin–Madison*
- Biodiversity Change and Human Health in a Warmer World | *David Nogues-Bravo, Globe Institute, University of Copenhagen*
- Title TBA | *Speaker TBA*

THURSDAY 16.45 - 17.30 | FOOD FOR THOUGHT

When We Get the Facts Right but the Feelings Wrong: Science, Fiction, and Pedagogy in the Climate Endgame

Mikkel Krause Frantzen, University of Copenhagen

In the climate endgame, facts alone are not enough. This talk explores what it means to “get the feelings right” in a world saturated with data, widespread diagnoses of mental and emotional distress, and little to no meaningful climate action. Through the concept of endgame emotions, I examine how grief, anxiety and burnout shape students and scientists, artists and activists alike – across classrooms, research labs, public discourse, and environmental movements. What might a science deeper than data look – and feel – like amid compounding crises? If science alone will not save us, then what will?



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DAY 2 SESSIONS

FRIDAY 09.30-10.45 | PLENARY SESSION

Storm Surges and Coastal Flooding in Denmark – Projections and Adaptation

Hosted by Mark Payne, Danish Meteorological Institute

- Storm Surges and Sea-Level Rise in Denmark: Rethinking Risk under Non-Linear Futures | *Jens Hesselbjerg Christensen, NBI, University of Copenhagen*
- Klimaatlas – Bridging the Gap Between Research and Adaptation | *Lea Poropat, Danish Meteorological Institute*
- The Blue Edge in Svendborg – Transformation of Industrial Port into Blue Zone | *Anna Als Nielsen, Svendborg Municipality*

FRIDAY 11.30-12.45 | TRACK SESSIONS

Track 1: Arctic Climate and Ecosystem Impacts

Hosted by Steffen M. Olsen, Danish Meteorological Institute

- A 12,000-year View on Arctic Climate Change and Ecosystem Impacts from the Ocean Seafloor | *Sofia Ribeiro, Glaciology and Climate, GEUS*
- Arctic Methane Emissions – On The Rise? | *Torben Røjle Christensen, iClimate, Aarhus University*
- A Tale of Two Storylines: How to Span the Likely Range of Climate Change Impacts in the Arctic | *Ruth Mottram, Danish Meteorological Institute*

Track 2: Climate Challenges in Cities and Copenhagen as an IPCC Case Study

Hosted by Karsten Arnbjerg-Nielsen, Danish Meteorological Institute

- Urban Climate Adaptation: Planning for an Uncertain Future | *Jan Rasmussen, Copenhagen Municipality*
- Rethinking Urban Stormwater Management | *Marina Bergen Jensen, IGN, University of Copenhagen*
- Copenhagen's Urban Heat Island – What Machine Learning Adds to the Picture | *Hjalte Jomo Danielsen Sørup, Danish Meteorological Institute*
- IMTECC: Integrated Urban Mobility for Climate-Neutral and Sustainable Cities in Europe and China | *Maher Sahyoun, NBI, University of Copenhagen*



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Tipping points: Past, Present and Future

Hosted by Shuting Yang, Danish Meteorological Institute

- Can the AMOC Collapse in the Future? | *Didier Swingedouw, University of Bordeaux*
- The Antarctic Ice Sheet: is the giant waking up? | *Petra Langebroek, NORCE and Bjerknes Centre for Climate Research*
- Early Warning Indicators: Do they give robust results? | *Bo Christiansen, Danish Meteorological Institute*

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List of posters

- 1 Storm Frequency and Intensity in the Faroe Islands Between 1940 and 2024: A Method for Establishing a Storm Record Based on the ERA5 Reanalysis Data | *Rico Kongsager, University College Copenhagen*
- 2 Using ML to downscale atmospheric variables in Greenland | *Nicolaj Hansen, DMI*
- 3 The Risk of Biased and Overconfident Return Level Estimates: A Critique of the Metastatistical Approach to Extremes | *Torben Schmith, DMI*
- 4 The Digital Twins for Winds-Offshore (DTWO) Project | *Xiaoli Larsén, Technical University of Denmark*
- 5 Using Different Flood Models for Uncertainty-Aware Planning in Roskilde Fjord | *Tatiana Ferrari, DTU*
- 6 PRODEM: An Annual Series of Summer DEMs for the Greenland Ice Sheet | *Mai Winstrup, DTU Space*
- 7 Title TBA | *Jonathan O. Melcher, NBI & DMI*
- 8 Impact and Timescales | *Johannes K. Nielsen, DMI*
- 9 Mission Impossible: Observing Greenland Ice Sheet Weather and Mass Balance | *Andreas Ahlstrøm, GEUS*
- 10 Digitizing Subdaily Temperature Data from Greenland Weather Stations 1873-1957 | *Johan Scheller, DMI*
- 11 Simulation of Microwave Radiation for Evaluation of Sea Ice Models | *André Toft Jensen, DTU & DMI*
- 12 The Effect of Initialisation in Climate Models | *André Düsterhus, DMI*
- 13 Future Solar Energy Scenarios | *Kristian Pagh Nielsen, DMI*
- 14 Barents Kara Sea Ice Variability drives Stronger Tropospheric Teleconnections after 2000 due to Weakened Stratospheric Polar Vortex | *Chongyang Zhang, AU*
- 15 Climatology of wind profiles in the high Arctic (Villum Research Station) and comparison with ERA5 and CARRA re-analysis data | *Sven-Erik Gryning, DTU Wind and Energy Systems*
- 16 Title TBA | *Martin Drews, DTU*
- 17 Title TBA | *Shuting Yang, DMI*
- 18 Sea Ice Extent and Surface Temperature | *Wiebke Margitta Kolbe, DMI*
- 19 ROPEWALK: Rescuing Old data with People's Efforts: Weather and climate Archives from Logbook records | *Martin Stendel, DMI*
- 20 Future Drought in Northern Europe | *Ruben Häberli, DMI & UPCH*



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POSTERS

List of posters

- 21 H2020 Past to Future | *Helle Astrid Kjær, NBI, UCPH*
- 22 A Bayesian Spatial Framework for Modeling Extreme Sub-daily Precipitation in Denmark | *Nafsika Antoniadou, DTU & DMI*
- 23 Choosing a Distribution for Extreme Sub-hourly Rainfall Intensities Across Europe: GEV, MEV or SMEV? | *Sigrid Schødt Hansen, Scalgo & DTU*
- 24 Robustness of Dynamical Coupling between wintertime European Weather Extremes and the Large-Scale Circulation | *Ane Carina Reiter, DTU & DMI*
- 25 Seabed Health: A Past-to-Present Perspective | *Paul Knutz, GEUS*
- 26 Enhancing Weather and Climate Observation Networks through Multivariate Statistics and Optimization Algorithms | *Rasmus Henriksen, DMI*
- 27 ITowards Improved Cloudburst Warning | *Emma Dybro Thomassen, DMI*
- 28 IWindstorm Extremes in a Warmer World: Raising the Bar for Destruction | *Rune Zeitzen, DMI*
- 29 Assessment of Historical Modelling of The Surface Mass Balance of The Antarctic Ice Sheet | *Clément Cherblanc, DMI*
- 30 Impact-oriented tracking of extratropical cyclones with global optimisation and track reconciliation | *Niels Agertoft, DMI*
- 31 PRECILIENCE: Precision climate resilience for agriculture and forestry sectors in the European boreal regions | *Davide Cammarano, AU*
- 32 Investigating Urban Heat Islands and their Impacts on Air Pollution Over Copenhagen using EnviroHirlam | *Filomila Avdi, UCPH*
- 33 Title TBA | *Julie Stensballe, DMI*
- 34 LSTM modelling of extreme sea levels | *Villy Mik-meyer*
- 35 Developing of RIO: Creating a Risk Assessment Dataset for Polar Navigation, based on Automated Sea Ice Products | *Magnus Suhr, DMI*
- 36 Greenland and Antarctic Level 4 Ice Surface Temperatures from Satellites | *Pia Englyst, DMI*
- 37 Temporal Clusters of Extreme Events Across Europe: A case-study in Denmark | *Ophélie Meuriot, DTU*
- 38 Linking Iceberg Detection and Ice Sheet Discharge: A case Study in Upernavik Isfjord, Northwest Greenland | *Henriette Skourup, DTU*
- 39 Attribution of the 2024 Unprecedented Extreme Precipitation Event in Southern Denmark to Anthropogenic Warming of the Climate System | *Matthew Newell, DTU*



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