

# NMM-33, 21-23 August 2024

## Programme

**Day 1: Venue at the Danish Meteorological Institute (DMI): Sankt Kjelds Plads 11, Copenhagen.**

### **Topic areas:**

### **Climate and Polar meteorology**

**8:00 -9:15 Registration**

**9:15 -9:30 Opening of the meeting in a room on the 6<sup>th</sup> floor: "Foredragssalen".**

**9:30 -10.30 Presentations in "Foredragssalen". Chair: Ruth Mottram**

9:30 -10:00 *Eigil Kaas:*

Multiplicity of Time Scales in Climate and the Earth System

10:00 -10:30 *Svante Bodin:*

The creation of IPCC and UNFCCC

**10:30 -11:00 Coffee break**

**11:00 -12:30 Presentations. Chair: Eigil Kaas**

11:00 -11:30 *Xiaohua Yang, Sebastian Pelt and the DANRA, CARRA reanalysis teams:*

Danra and CARRA, kilometer scale climate reanalysis

11:30 -12:00 *Dina Rapp, Jacob L. Høyer and Bo M. Vinther:*

ML to reconstruct complete Greenland surface temperature grid on daily level from 1958 to present.

12:00 -12:30 *Lippin Pauly and Enrico Ferrero:*

Impact Assessment of Heat waves on Urban Microclimate: A case study in Turin, Italy

**12:30 -13:30 Lunch in the DMI Canteen**

**13:30 -15:00 Presentations. Chair: Bent Sass**

13:30 -14:00 *Oskar Andreas Landgren:*

Regional climate modelling of a future Arctic

14:00 -14:30 *Ruth Mottram, Charles Amory, Fredrik Boberg, Willem Jan van de Berg, Michiel van den Broeke, Christiaan van Dalum, Alison Delhasse, Xavier Fettweis, Christoph Kittel, Quentin Glaude, Heiko Goelzer, Nicolaj Hansen, Brice Noel, Anna Puggaard, Martin Olesen, Kirk Scanlan and Sebastian Simonsen:*  
Evaluating a regional climate model ensemble of surface mass budget to understand diverging future projections.

14:30 -15:00 *Sven-Erik Gryning, Ekaterina Batchvarova, Rogier Floors, Christoph Munkel, Lise Lotte Sørensen, Henrik Skov*  
Wind profiles in the high Arctic

**15.00 -15:30 Coffee break**

**15:30 -17:05 Presentations.** Chair: *Sven-Erik Gryning*

15:30 -16:00 *Ruben Häberli, Ole Bøssing Christensen, Eigil Kaas:*  
Assessing Drought Projections in Fenno-Scandinavia Using High-Resolution Convection-Permitting Models

16:00 -16:30 *Marlen Kolbe:*  
Vertical Structure and Propagation of Atmospheric Rivers in Antarctica.

16:30 -17:00 *Kristian Pagh Nielsen:*  
Aerosols, clouds and long-term climate change.

17:00 -17:05 EMS Young Scientist Conference award given to Lippin Pauly.

**17:05 – 17:15 Announcements**

**17:15 -19:00 Poster session and Icebreaker, starting with an introduction to posters.**  
**Meeting room: Canteen.** Chair: *Ruth Mottram and Bent Hansen Sass.*

**Day 2: Venue at the premises of Royal Academy of Sciences in Copenhagen, H.C. Andersens Boulevard 35.**

**Topic areas:**

**Forecasting (NWP) including dissemination, and AI in forecasting and Climate**

**9:30-11:00: Presentations:** Chair: *Bent Hansen Sass:*

9:30 -10:00: *Erlend Källén:*  
ECMWF - a world leader in meteorology.

10:00 -10:30: *Vesa Nietosvaara (EUMETSAT):*

MTG and EPS-SG supporting operational meteorology in Nordic Countries

10:30 -11:00: *Leif Denby and Simon Kamuk Christiansen:*

Weather forecasting with purely data-driven deep-learning models.

**11:00 -11:30 Coffee break**

**11:30 -13:00 Presentations.** *Chair: Erland Källén.*

11:30 -12:00 *Kristian Pagh Nielsen:*

Destination Earth forecasting of extreme weather events.

12:00 -12:30 *Aram Farhad Salihi, Håvard Holleid Haugen, Magnus Sikora Ingstad, Thomas Nipen, Even Nordhagen, Ivar Seierstad and Paulina Tedesco:*

Data-driven weather modeling at MET Norway.

12:30 -13:00 *Emma Holmberg, Steffen Tietsche, Davide Faranda, Rodrigo Caballero, Gabriele Messori:*

Dynamical systems persistence associated with European temperature extremes, and it's application to extended-range forecasts.

**13:00 -14:00 Lunch**

**14:00 -15:30 Presentations.** *Chair: Svante Bodin.*

14:00 -14:20 *Turið Poulsen and Andrias Klein Gregoriussen,( Faroese Meteorological Office):*

Local Scale Modelling in a complex terrain, Faroe Islands.

14:20-14:30 *Bárður A. Niclaesen, Rúnar Alix Rasmussen, Hanus Kjølbro, Andrias Klein Gregoriussen, Djóni F. Strømsten, Túrið Laksá and Túrið Poulsen:*

FMO, the slow start, development and future plans.

14:30 -15:00 *Lars R. Hole, Dung M. Nguyen, Nguyen Ba Thuy, Tien Du Duc, Pham Khanh Ngoc, Jan-Victor Björkqvist, Magnus Haukeland and Teferi Dejene Demissie:*

The Capacity building project SAREPTA in Vietnam.

15:00-15:15 *Thea Quistgaard:* AI machine learning applications in weather and climate

**15:15 -15:45: Coffee break**

**15:45 -18:00: Break**

**18:00 -21:00: Conference dinner at the Royal Academy of Sciences**

**Day 3: Venue at the Danish Technical Univ. DTU Risø Campus, Frederiksborgvej 399 in Roskilde.**

**Topic areas:**

**Energy Meteorology (morning)**

**Panel discussion and a tour de Risø Campus (afternoon)**

**9:30 – 11:00 Presentations:** *Chair: Sven-Erik Gryning:*

9:30 -10:00: *Jake Badger, Oscar Manuel Garcia Santiago, Andrea Noemi Hahmann Robinovich:*  
Wind farm parameterization schemes in meteorological models: a short history and a new and improved scheme.

10:00 – 10:20: *Jacob Berg:*  
Challenges in Metocean for Offshore Wind - and Solutions.

10:20 –10:40: *Nicolai Gayle Nygaard:*  
Wind farms, wakes and the atmosphere.

10:40 – 11:00: *Xiaoli Guo Larsén, Jana Fischereit, Konrad Bärfuss, Astrid Lampert:*  
Interaction of wind, wave and wind farm wake – investigation using numerical modeling and measurements

**11:00 – 11:30 Coffee break**

**11:30 – 12:30 Presentations.** *Chair: Kristian Pagh Nielsen.*

11.30 – 11:50. *Birgitte R. Furevik:*  
Climatology of low-level jets in Scandinavia for 16 years using different datasets.

11:50 – 12:10: *Bjarke T. Olsen, Nicolas G. Alonso-de-Linaje, Andrea N. Hahmann, Mark Žagar:*  
Low-Level Jets in the North and Baltic Seas: NWP Model Sensitivity Analysis and Climatology From a Wind Energy Perspective.

12:10 – 12:30: *Pia Isolähteenmäki, Oskari Rockas:*  
Future Rime Ice Conditions Over Fenno-Scandinavia.

**12:30 – 13:30 Lunch**

**13:30 – 14:30 Final panel discussion and next meeting:** *Chair: Bent Hansen Sass and Kristian Pagh Nielsen*

**14:30 – 15:00 Coffee break**

**15:00 – 16:00 Tour de Risø Campus (rain erosion test rig and Hybrid Power Plant facility)**

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