



BOLIN DAYS 2023

November 29

Aula Magna and Geoscience building

09.30–10.00	Registration and coffee
10.00–11.30	Session 1: Greetings from the Bolin Centre leadership Chair of the session: Johan Nilsson Welcome and practical information: Vice chairmen of the board and directorate Ilona Riipinen and Gustaf Hugelius : Future outlook – new Strategic Plan for the Bolin Centre Presentations on the Strategic Plan by the RTs Bolin centre support functions Daniel Ospina : 10 New Insights in Climate Science – an annual process to prioritise and highlight key messages from researchers to policymakers
11.30–13.00	Lunch and posters
13.00–14.30	Session 2: Research theme 2: Water, Biogeochemical Cycles and Climate Chair of the session: Volker Brüchert Abhay Prakash : Uncovering how a warmer atmosphere will control the basal melting of Petermann Glacier Ice Shelf Thea Bisander : Methane sea-air fluxes in inshore, marine habitats of the Baltic Sea: How can we attempt to scale them? Stefano Manzoni : Soil carbon in the hands of microorganisms – stewards or consumers? Saeid Aminjafari : Distinctive Patterns of Water Level Change in Nordic Lakes Driven by Climate and Human Regulation Marenka Brussee : Multi-isotope source fingerprinting for methane hotspots in the East Siberian Arctic Shelf region Alyssa Azaroff : Large Mercury Circum-Arctic burial in Arctic Ocean sediments
14.30–15.00	Fika
15.00–16.30	Session 3: Research Theme 3: Past Climates Chair of the session: Natasha Barbolini and Frederik Schenk Introduction: Natasha Barbolini and Frederik Schenk Kate Power : Diverging feedback processes at varied CO2 levels in the Mid-Pliocene Arctic Marie Sicard : The Last Interglacial Arctic sea-ice loss and its relevance for the future – a PMIP4 investigation Martina Hättestrand : Dramatic climatic fluctuations in Sweden during the last ice age ~55,000 years ago (MIS 3) Carl Regnéll : Final demise of the Scandinavian Ice Sheet – Ice-dammed lakes and catastrophic floods Jenny Sjöström : A stormy past – 8000 years of storminess variability reconstructed from the Roycarter bog, north-western Ireland Questions for all speakers
17.00–22.00	Geopub and Cèilidh in the Geoscience building



November 30

Aula Magna

09.30–10.00

Registration and coffee

10.00–11.30

Session 4:

Chairs of the session: Ilona Riipinen and Gustaf Hugelius

Welcome

Svante Bodin: The creation of IPCC and the UNFCCC

Magnus Breitholtz: Stockholm Trio for Sustainable Actions – what is it and how can it help SU?

Petter Ljungman: KI Centre for Health Crisis: Contributing to improved preparedness and ability to handle future health crises employing an all hazards perspective.

Francesco Fuso Nerini: KTH Climate Action Centre, a multi-disciplinary, collaborative and research-focused centre aiming to advance climate mitigation and adaptation in synergy with all the UN Sustainable Development Goals.

Nina Viberg / Monika Berge-Thelander: Centre of Excellence for Sustainable Health – A collaboration between Karolinska Institutet and Makerere University

11.30–13.00

Lunch and posters

13.00–14.30

Session 5: Research Theme 1: The physical-chemical climate system

Chairs of the session: Thorsten Mauritsen and Torben Koenigk

Michael Tjernström / Paul Zieger: First impressions from the ARTofMELT expedition to Arctic spring

Caroline Leck: Progress of knowledge on aerosol-cloud interactions in the high Arctic based on icebreaker research expeditions between 1991–2018

Dorothee Vallot: Does ice-shelf roughness matter?

Páll Ágúst Thorarinnsson (Linnea Larsson Huusko/ Joakim Pykkö): The atmospheric boundary layer in storm resolving climate models

14.30–15.00

Fika

15.00–16.30

Session 6: Research Theme 4: Climate, ecosystems and biodiversity

Chairs of the session: Stefano Manzoni and Rhonda Snook

Ian Brown: Soil temperature, climate adaptation and biodiversity in northern landscape

Carolyn Seiferth: The Öland Project – co-creating knowledge and pathways for collective climate action

Mats Ittonen: Timing hibernation: how evolution may hold back early and speed up late caterpillars in autumn

Irena Koelemeijer: Effects of drought on boreal forest understory biodiversity – an experimental approach

Matilda Pembury-Smith: The impact of thermal stress on reproductive behaviour and fertility in the butterfly, *Pieris napi*

16.30–17.00

Concluding remarks, presentation of poster competition winners

Ilona Riipinen and Gustaf Hugelius

18.00–21.00

Mingle and Dinner at the Vasa Museum