



Bolin Days 2021

Welcome to the 13th Bolin Days!

November 18

Aula Magna and Zoom

11:00-12:00 Lunch

12:00-12:15 Opening of the 13th Bolin Days

Chairs:
Nina Kirchner &
Alasdair Skelton

12:15-14:00 Water, biogeochemistry and climate

Chairs:
Fernando
Jaramillo &
Volker Brüchert

- DriftBloomClim: The Surface Drift and Algae Blooms in a Changing Climate, Inga Koszalka
- Carbon fluxes through the central metabolic network in environmental microorganisms, Weichao Wu
- Intercomparison of chlorophyll-a measurements for data quality assurance of the Swedish monitoring program, Susanne Kratzer
- Discharge of deeply rooted fluids from submarine mud volcanism in the Taiwan accretionary prism, Nai-Chen Chen
- Towards a green water planetary boundary, Lan Wang-Erlandsson
- A data-driven investigation of blue and green water fluxes partitioning across the world, Daniel Althoff
- The hidden hydrological changes occurring in wetlands, Fernando Jaramillo

14:00-14:30 Fika

14:30-16:15 Climate, ecosystems and biodiversity

Chairs:
Sara Cousins

- Patterns in soil microbial communities in grasslands and implications for the C cycle, Daniela Guasconi
- Warm-edge limitations and climate refugia, Caroline Greiser
- Are diverse plant communities using water and nutrients more efficiently than monocultures? Stefano Monzani
- Reindeers under pressure – Impacts from changing climate and land use in northern Sweden, Carl Österlin



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- Investigating the effects of landscape and climate on roosting bats using a citizen science approach, Heather Wood
- Replicating historic experiments to detect climate-change associated evolution in a butterfly, Matthew Nielsen
- Long-term effects of climate change on Swedish bird populations, Cecilia Kullberg

16:30-19:00 Pico presentations in Aula Magna followed by a Poster session in Geovetenskapens hus.

Chairs:
Nina Kirchner &
Alasdair Skelton

November 19

Aula Magna and Zoom

11:00-12:00 Lunch

12:15-14:00 Past climates

- Before the freeze – An Eocene Antarctic frog and its implications for paleoclimate, Thomas Mörs
- Stratigraphy and palaeoenvironmental changes across the Eocene-Oligocene climate transition in the Labrador Sea, Tirza Wietkamp
- Ice conditions in the Arctic Ocean during the Last Interglacial - a view from planktonic foraminifera, Flor Vermassen
- Ashes to ashes: applications of tephrochronology in Scandinavia, Simon Larsson
- Interannual to centennial variability in oxygen isotopes as recorded by speleothems and simulated by multiple climate models, Josefine Axelsson
- Climate variability and grain prices in Early Modern Europe, Fredrik C. Ljungqvist

Chairs:
Frederik Schenk &
Margret
Steinthorsdottir

14:00-14:30 Fika

14:30-16:15 The physical-chemical climate system

Chairs:
Frida Bender &



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- The atmospheric transport of mineral dust into the Arctic in two reanalysis datasets of atmospheric compositions, Sebastian Böö
- Recent changes in the agrometeorological climate variables over Scandinavia, Abhay Devasthale
- Exploring the influence of the North Pacific Rossby wave sources on the variability of summer precipitation over the Northern Hemisphere, Ramon Fuentes-Franco
- Unmasking the effects of aerosols on warming over Europe, Paul Glantz
- Large-eddy simulation of atmospheric turbulence - towards resolving the diurnal cycle, Philipp Schlatter
- Understanding the formation of clouds in the summertime central Arctic, Karolina Siegel

Thorsten Mauritsen

16:30-18:00

Closing remarks

- Guest presentation – Gustaf Landahl, Stockholm Town
- Presentations by new and old Directors
- Presentation of poster competition winners & closing remarks

Chair:

Magnus Atterfors

18:00-late

Mingle and dinner in Aula Magna followed by a Ceilidh in Geovetenskapens hus