Welcome to the Bolin Days!

The Bolin Centre for Climate Research invites you to the Bolin Days and the launch of the new Centre!

This is the launch of the new Bolin Centre for Climate Research after the merge of former EkoKlim and the Bolin Centre! Come and listen to interesting talks, enjoy discussions over fika, celebrate Tarfala research station 70 years, hear the latest about ICOS, attend the SWERUS photo exhibition, view interesting posters, judge in the PhD poster competition, talk with the database team, involve yourself in the mentoring programme, rack your brain with puzzles and equip yourself with Bolin Centre give-aways. End the Bolin Days by letting your hair down at the Ceilidh dance after the relaxed conference dinner. There are also excellent opportunities to interact with the Bolin Centre External Science Advisory Group during the Bolin Days.

Tuesday, November 15

Nordenskiöld room and foyer, Geoscience building, Stockholm University

14:00–14:05 Welcome to the Bolin Day Special Sessions Alasdair Skelton & Nina Kirchner
14:05–15:05 Bolin Centre at the Zoology Department Chair: Karl Gotthard
Introduction to Bolin Centre at the Zoology Department Karl Gotthard
Fågelkalendern; using citizen science to study bird phenology Cecilía Kullberg
Timing of diapause termination in varying winter climate Philipp Lehmann
230 years of land use and climate change: Can recolonizing apex predators reclaim their ecosystem function? Marianne Pasanen Mortensen
Consequences of past climate change on animal demography Love Dalén
15:05–15:15 Leg stretcher
15:15–16:30 Celebration of Tarfala Research Station 70 years Chair: Nina Kirchner
Developing an Arctic infrastructure – Tarfala Research Station Gunhild Rosqvist
Autonomous bathymetric mapping of Lake Tarfala Jakob Kuttenkeuler
Tarfala: Cryo-stories and other histories Sverker Sörlin
SITES – a research infrastructure for ecosystem science Anders Lindroth
16:30 Celebration Cake and Mingle With Tarfala slide show

Wednesday, November 16

De Geer room and foyer, Y20, Y21, Y22 and Y23, Geoscience building, Stockholm University

09:00–09:15 Welcome to the Bolin Days Alasdair Skelton & Nina Kirchner
09:15–10:15 Oceans-atmosphere Dynamics and Climate Chair: Johan Nilsson
Introduction to Bolin Centre Research Area 1 Rodrigo Caballero
How much CO2 can the ocean take up? Malin Ödalen
The role of water vapour in Arctic climate variability Cian Woods
Let the great world spin: Earth’s rotation and glacial meltwater in Antarctica Liam Brannigan
The role of resolution in modelling the South Asian Monsoon Shiyu Wang
10:15–10:20 Mentoring programme at the Bolin Centre Agatha de Boer & Malin Kylander
10:20–10:45 Fika With poster preview, booths with the database, modelling and mentoring coordinators and puzzles
Continuing Wednesday, November 16

10:45–11:45 **Clouds, Aerosols, Turbulence and Climate**

*Introduction to Bolin Centre Research Area 2*
- Studies of South Asian Aerosols using Carbon isotopes
- Clouds, warm air and a climate cooling signal over the summer Arctic?
- On the impact of entrainment on cloud droplet formation
- Rethinking the importance of water-affinity for calculating the climate effects of organic aerosol

Chair: Annica Ekman & Ilona Ripipinen
- Srinivas Bikkina
- Joseph Sedlar
- Daniel Partridge
- Ilona Ripipinen

11:45–13:00 **Lunch with sandwiches**

With poster preview, booths with the database, modelling and mentoring coordinators and puzzles

13:00–14:00 **Hydrosphere, Cryosphere and Climate**

*Introduction to Bolin Centre Research Area 3*
- Freshwater change in the Arctic
- Permafrost at the Last Glacial Maximum
- Level changes of Lake Babati, Tanzania
- Unraveling sources and fates of stream DIC across large spatial scales with a stable isotopic approach

Chairs: Margareta Hansson & Magnus Mörth
- Margareta Hansson & Magnus Mörth
- Arvid Bring
- Amelie Lindgren
- René Mbanguka
- Audrey Campeau

14:00–14:30 **Fika**

With poster preview, booths with the database, modelling and mentoring coordinators and puzzles

14:30–15:30 **Biogeochemical Cycles and Climate**

*Introduction to Bolin Centre Research Area 4*
- Carbon trace gas dynamics in three subarctic lakes in winter and spring
- Large-scale modelling of carbon cycling on the East Siberian Arctic Shelf
- Update on long-term studies of carbon cycling in the East Siberian Arctic Ocean

Chair: Christian Beer
- Christian Beer
- Joachim Jansen
- Erik Gustafsson
- Orjan Gustafsson

15:30–16:00 **Invited talk**

ICOS – Open data on long-term greenhouse gas observations across Europe

Chair: Nina Kirchner
- Maj-Lena Linderson

16:00 **PICO Poster Presentation Madness & Poster Competition**

With refreshments and Bolin Centre give-aways

Chair: Alasdair Skelton

Thursday, November 17

De Geer room and foyer, Nordenskiöld foyer, Y23, Lunchroom at level 4 and the Geopub at U1, Geoscience building, Stockholm University

09:00–09:15 **Welcome to the Bolin Days**

Alasdair Skelton & Nina Kirchner

09:15–10:15 **Historical to Millennial Climate Variability**

*Introduction to Bolin Centre Research Area 5*
- Linking Lake Extent Changes to Climate and Human Activity in Basotu, Tanzania
- Precise linking of late Quaternary palaeoclimate records in the North Atlantic region using volcanic ash layers
- A mid-Holocene high carbon accumulation event driven by mineral dust fertilization
- Climate and vegetation interactions in Europe

Chair: Qiong Zhang
- Qiong Zhang
- Lindsay Higgin
- Stefan Wastegård
- Malin Kylander
- Gustav Sandberg

10:15–11:00 **SWERUS Photo Exhibition**

With fika in the Nordenskiöld foyer

Orjan Gustafsson & Martin Jakobsson
Continuing Thursday, November 17

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<th>Time</th>
<th>Session</th>
<th>Chair</th>
<th>Presenters</th>
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<tr>
<td>11:00–12:00</td>
<td><strong>Deep Time Climate Variability</strong></td>
<td>Chair: Margret Steinthorsdottir</td>
<td>Margret Steinthorsdottir, Helen Coxall, Steve McLoughlin, Alasdair Skelton</td>
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<td>Introduction to Bolin Centre Research Area 6</td>
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<td>North Atlantic overturning at the opening of the Cenozoic ice house?</td>
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<td>Modelling the meridional overturning circulation in the Late Eocene</td>
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<td>Climate before the end-Perman mass extinction</td>
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<td>Snowball Earth – conflicting evidence from Scotland</td>
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<td>12:00–13:00</td>
<td><strong>Lunch with sandwiches</strong></td>
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<td>at the SWERUS photo exhibition in the Nordenskiöld foyer</td>
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<td>13:00–14:00</td>
<td><strong>Landscape Processes and Climate</strong></td>
<td>Chair: Regina Lindborg</td>
<td>Regina Lindborg, Steve Lyon, Caroline Greiser, Romain Goldenberg, Lowe Börjeson</td>
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<td>Introduction to Bolin Centre Research Area 7</td>
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<td>Co-evolution of landscapes and water</td>
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<td>Modelling forest microclimate</td>
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<td>Potential and realized demand and supply of ecosystem services:</td>
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<td>Local climate and flood regulation</td>
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<td>Drought tolerant species dominate as rainfall and tree cover returns</td>
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<td>in the West African Sahel</td>
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<td>14:00–14:30</td>
<td><strong>Fika</strong></td>
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<td>14:30–15:30</td>
<td><strong>Biodiversity and Climate</strong></td>
<td>Chair: Johan Ehrlén</td>
<td>Johan Ehrlén, Heather Wood, Elsa Fogelström, Sara Cousins</td>
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<td>Introduction to Bolin Centre Research Area 8</td>
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<td>Using natural history collections in ecological research:</td>
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<td>Detecting the effects of landscape and climate change on bat morphology</td>
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<td>Temperature and plant-insect interactions</td>
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<td>Future challenges in assessing the effects of climate on biodiversity</td>
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<td>15:30–15:45</td>
<td><strong>Leg stretcher</strong></td>
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<td>with some coffee &amp; tea</td>
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<td>15:45–16:45</td>
<td><strong>Climate Research School Session</strong></td>
<td>Chair: Björn Gunnarson</td>
<td>Björn Gunnarson, Elin Tolllefsen, Jan Pietron, Sandra Siteo</td>
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<td>Introduction to the Bolin Centre Climate Research School</td>
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<td>Does seawater chemistry control ikaite formation in Ikka fjord, southwest Greenland?</td>
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<td>Landscape-level soil profile inventories of soil organic matter in northern Fennoscandia</td>
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<td>Palaeo-environmental evolution in Lake Lungue, southern Mozambique, during the last 1400 years</td>
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<td>Sedimentation processes in the Selenga River delta under changing hydroclimatic conditions</td>
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<td>16:45</td>
<td><strong>Closing remarks</strong></td>
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<td>Nina Kirchner &amp; Alasdair Skelton</td>
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<td>17:00</td>
<td><strong>Refreshments</strong></td>
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<td>17:30</td>
<td><strong>Dinner, presentation of poster competition winner &amp; pub with live music</strong></td>
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