Stockholm University

Bolin Centre for Climate Research

A collaboration between SU, KTH and SMHI

October 2024 [Click here to view the newsletter in your browser]



One of the stations in "The hunt for new knowledge about the Arctic"-exhibition during this years ForskarFredag (Researcher's Night). Photo: Laila Islamovic

Bolin Centre Newsletter #9

Dear Bolin Centre Members,

We are pleased to invite you to **Bolin Days 2024** on **13-14 November**. Please note that registration will close on **October 20th**.

As a member of the Bolin Centre, we encourage you to join us for two days of in-depth scientific discussions on climate research, where we will share our successes and celebrate our collective achievements. The event will conclude with a dinner at the National Museum of Science and Technology (**Tekniska museet**) on the evening of November 14th.

This gathering offers an excellent opportunity to engage with fellow researchers, including members of the Bolin Centre's Science Advisory Group and External Science Advisory Group, in both formal and informal settings.

To participate, please **register here**. The full programme will be shared shortly.

We look forward to your participation. Welcome!

On behalf of the Bolin Centre's Directorate,
Maria Basova & Laila Islamovic

NEWS & INFORMATION



Researchers at Tarfala Research Station on the nearby Storglaciären. Photo: Johanna Dahlkvist

Record shrinkage of Swedish glaciers

The four Swedish reference glaciers continue to shrink. The results of the annual measurements of the glaciers' mass balance show that Storglaciären, Rabots Glacier, Rivgojiehhki, and Moarhmmáglaciären have shrinked significantly. These are the largest losses since systematic measurements began.

In September, staff at Stockholm University's research station in Tarfala conducted the annual final measurements of the so-called mass balance* of Sweden's four reference glaciers. The measurements check both the winter balance, which is determined at the end of winter and accounts for the glaciers' growth in the form of snow and ice, and the summer balance, which captures the glaciers' melting during the summer. The summation of these "incomes" and "losses" gives the final net mass balance. This is also reported to the World Glacier Monitoring Service in Switzerland, where data for approximately 50 reference glaciers worldwide is collected...

Read the full story



Tree rings. Photo: Lena Katarina Johansson.

Extremes in European summer weather mapped back to the Middle Ages

Jet streams are concentrated bands of wind in the upper atmosphere, and they affect our weather conditions. Measurements of the jet stream have been made since the late 1940s, but a team of international researchers has used tree rings to reconstruct the jet stream's variations in Europe over the past 700 years – and studied its impact on agriculture – something that could also improve the ability to predict future climate. The results are now being published in the journal Nature.

Read the press release (in Swedish)



Dinner and mingle at Villa Källhagen. Photo: Frederik Schenk

The Bolin Centre RT3 retreat 2024 on Djurgården

Just before the summer vacation, a full-day workshop for RT3 members was held off-campus at Villa Källhagen, Stockholm on the 10 June. It was the first joint retreat of the former RA6 and RA5 research area members and the added value of finally being united as “Past Climates” became obvious as many work on several timescales.

Organised by the co-leaders of the Research Theme 3 “Past Climates”, the workshop was well attended by 29 scientists, including early career PhDs and postdocs. Attendees listened to 17 presentations spanning a wide variety of topics, including palaeoclimate reconstructions & modelling, palaeogeography and ecosystem evolution, vertebrate palaeontology, palaeoceanography, sedimentary ancient DNA, and tephrochronology. Talks also covered environmental and climatic changes over the past centuries to millions of years. The day was kicked off by our external speaker Sebastian Wagner from the Helmholtz-Zentrum Hereon in Geesthacht, Germany with a talk on ensemble climate modelling of volcanic eruptions and the impact e.g. on the Silk Road in the past millennium...

Read more



Photo: Laila Islamovic

Recap: ForskarFredag 2024

This year's ForskarFredag (Researcher's Night) exhibition took place at the AlbaNova University Center, where around 5,000 students, teachers and members of the general public gathered to meet researcher's and take part in activities.

The Klimat, hav och miljö-section put together the exhibit "The hunt for new knowledge about the Arctic", which showcased various instruments from the ARTofMELT and GEOEO 2024 expedition, as well as a very nice short documentary on the latter. Visitors could also enjoy a nice "spa treatment" in the Mini Geospa, getting a face mask of clay from the North Pole, and some fresh glacial water to wash it off. Other elements of the exhibit included a mail box where visitors could send climate-related questions to researchers, the Erasmus+ GeoVT project showing Earth Science through virtual reality, lots of free profile products and more.

In all it was a successfull event with lots of visitors, curiousity and great questions.
A big thank you to all of you that participated and helped during this years ForskarFredag!



Artwork by Ian Brooks and Ida Rödén.

Sea ice - polar art exhibition and lecture

In the exhibition "Sea of Ice," Ida Rödén and Ian Brooks reunite on solid ground, after returning from the expedition ARTofMELT, to convey their experiences of the cold's vast, ever-changing landscape – a place that remains both ancient and new, though its days are numbered as the polar seas melt. Here, the worlds of art and science merge, bound by a mutual appreciation for the unknown. By looking beyond the constraints of reason, we may uncover new ways to approach the challenges of the future, both in thought and action.

Exhibition and opening reception
The artists Ida Rödén and professor Ian Brooks exhibit water colors and prints with polar motifs from the expedition ARTofMELT 2023.
- Exhibition: Thursday-Sunday November 30-December 22, 14:00-17:00.
- Opening reception: November 30, 14:00-17:00, with opening speech at 14:00.

Lecture on December 8, 17:00-18:30.
Martin Jakobsson, Professor of Marine Geology and Geophysics at Stockholm University, will present his research on the Arctic and ocean floor mapping. He will also discuss his unique collaborations with artists, bridging science and creativity.

Read more

OPPORTUNITIES

Together, We Can Shape AGU's Future—Please Vote

To all of the members of the American Geophysical Union in the Bolin Centre for Climate Research:

The 2024 AGU Elections site is now open! **This year, one of our colleagues (Kevin Noone) is among the candidates.**

AGU is more than just an organization—it's a global community dedicated to advancing scientific discovery and solutions. The leaders we choose now will play a crucial role in guiding AGU's future. Your vote is important.

Check out the candidates at agu.org/elections and **cast your vote by 29 October.** If you are a member, you should have received an email from noreply@directvote.net with a link to your ballot. If you haven't seen it, be sure to check your spam folder or reach out to support@directvote.net.

Thank you for contributing to AGU's next chapter.

Webinar on the review of the Ethical Review Act – October 14

On Monday, October 14, the Office for Research, Engagement and Innovation Services (REIS) will host a lunchtime webinar regarding the review of the Ethical Review Act. The review's proposals will be published on September 30. During the webinar, the reviewers will present their proposed changes, followed by a discussion on what these proposals mean for researchers and academic institutions.

We would also like to mention that, as usual, we will be holding information sessions on ethical review of research involving human matters:

- **Information meeting about ethical review of research involving humans**. In English. Tuesday 12 November at 14.00-15.00. Information and registration can be found here.

General information on research ethics can be found on our website: www.su.se/research-ethics. You are always welcome to get in touch with us if you have questions or need support regarding the ethical review or things related to research ethics.

Expression of Interest – Participation in Expert Groups Related to the National Climate and Vulnerability Analysis [Deadline 13 Oct]

The government has tasked the National Expert Council for Climate Adaptation with developing a national climate and vulnerability analysis (NKSA). The council is now seeking individuals with expertise related to the effects of climate change and climate adaptation to join expert groups involved in the preparation of the NKSA. These expert groups are a crucial part of the work on the assignment.
-Find more information here (in Swedish)
- Express your interest here **no later than 13th October**

CALENDAR

Bolin Centre Events

16 OCTOBER

Bolin Centre ECR Introductory Meeting

Time: 15:00 - 17:00
Place: Big kitchen on the 4th floor (S4) Geohouse
This meeting aims to give a clearer understanding of what the Bolin Centre offers and how we can help you in your research.
Read more below: News from the ECR Network

22 OCTOBER

Guest seminar, Linus Magnusson, ECMWF, Reading, UK (MISU)

Time: 11.15 - 12.15
Place: C609 Rossbysalen, MISU, Svante Arrhenius väg 16C, 6th floor
Title: Predictability - what I have learnt in the past 15 years

23 OCTOBER

Climate and Environmental History Seminar: "What was the Anthropocene?"

Time: 15.00 - 17.00
Place: Department of History (Stockholm University), room D837 and on Zoom
Read more at the Department of History's website.

24 OCTOBER

Seminar by Professor Wilfred Vermerris, University of Florida

Time: 14.00 - 16.00
Place: E306, E-house in the Arrhenius Laboratory
Title: Strategies for enhancing the sustainability of biomass production in sorghum
Find more information on our website.

13-14 NOVEMBER

The Bolin Day's 2024

Time: 09.30 - 22.00
Place: Aula Magna
The Bolin Days is our annual internal conference for and by our Bolin Centre members. During these days, new climate science results are presented and we meet each other to exchange ideas, share our experiences and find new inspiration. We welcome you to take part in a set of cross-disciplinary sessions organized by our Research themes leaders.
Read more & register here.

More calendar events →

MEDIA & PUBLICATIONS

Members in media

- Thorsten Mauritsen in SVT Rapport (around 16:15) and SVT Nyheter on 25th September: "Klimatförändringar dubblar risken för kraftiga översvämningar"
- Nina Kirchner in Sveriges Radio and Norrländska socialdemokraten on 4th October: "Glaciärer krymper rekordfort: ”Blir en annan fjällvärld” and "Norrbottens glaciär smälte rekordsnabbt i sommar"
- Frederik Schenk in Dagens Nyheter on 7th October: "Fler orkaner väntas drabba Europa - 'skäl för oro'"
- Michael Tjernström in Aftonbladet on 8th October: "Experten: 'Kirk är speciell – valde en helt annan bana'"

Publications

As part of our ongoing efforts to keep our community updated and informed, we encourage you to share your recent publications with us by emailing bolin@su.se. By doing so, we can ensure that our list of scientific journal publications remains comprehensive and up to date.

Here you will find the list of recent publications at bolin.su.se/publications

The Bolin Centre Annual Reports summarize the scientific achievements of the Bolin Centre and its scientists throughout the years and outline main activities. You will find our Annual Report here

NEWS FROM THE ECR NETWORK

Invitation to the Bolin Centre ECR Introductory Meeting

Date: October 16, 2024
Time: 15:00-17:00
Place: Big kitchen on the 4th floor (S4) Geohouse

This meeting aims to give a clearer understanding of what the Bolin Centre offers and how we can help you in your research.
This will be an excellent opportunity to meet members of the Bolin Centre Directorate, Research Theme (RT) leaders, and representatives of the support functions. You'll also have the chance to connect and network with your fellows.

The meeting will be informal, and we won’t have an official registration process. However, if you plan to attend, kindly confirm your presence to Maria Basova (maria.basova@aces.su.se) so I can order the right amount of fika.

We hope to see many of you there!
Best regards,
Maria Basova

NEWS FROM RESEARCER'S DESK

Dear Members of Researchers' Desk,

Here are this week's information points:

Researchers' Desk – Seminar Series
On Wednesday at 12 noon: Ria Dunkley, Professor, University of Glasgow will speak to us on: "Pathways to Climate Equity: Perspectives on Advocacy and Action.".
The Zoom link is: https://us02web.zoom.us/j/6639856178.

Up-and-coming seminars:
Oct 16 – Fredrik von Malmborg, Associate Professor, Linköping University, Strategies and impacts of policy entrepreneurs: Ideology, democracy' and the quest for a just transition
Oct 23 – Tristan Mckenzie, Researcher, Gothenburg University, Climate change and health.
Oct 24 – Extra seminar: Christoffer Söderlund Kanarp from SLU speak with us on "From imagination to practical consciousness – Meaning making in climate change adaptation"
Oct 30 – Camilla Brudin Borg, Researcher, Gothenburg University, A Utopian Shared Socioeconomic Pathway
Nov 6 – Svante Bodin and Erik Huss, COP29 – Insights from the SB60 climate meeting in Bonn.
Nov 13 – Fredrik Malmborg, Docent, LiU – Repoliticizing climate politics: A window of opportunity for developing the climate movement
Nov 20 – Fabian Dablander – Going Beyond Research: A Large-scale Investigation of Climate Change Engagement by Scientists
Nov 27 – Niklas Lång – Dikotomin i bibeltolkningar kring planetens framtid - att påskynda undergången eller ta ansvar för skapelsen
Dec 4 – Isak Svensson – How to Blow Up Your Chances for Success (Find out more here).
Dec 11 – Laurie Parsons, Reader, Royal Holloway: Inequality of climate change impact
Dec 18 – Kevin Noone and Alasdair Skelton challenge the rejection of the Anthropocene

Best wishes,

Alasdair

Profile products

If you need Bolin Centre logos or promotional materials for your upcoming presentations, reports, or other activities, please feel free to get in touch. We have **Bolin T-shirt**, as well as stickers with our logo, bags, and buffs. We have recently restocked our T-shirt inventory, so **all sizes are now available**.

To make a request, kindly reach out to Maria Basova at maria.basova@aces.su.se, and we will be more than happy to assist you.

All members of the Bolin Centre receive the Bolin Centre Newsletter once a month, which presents our current activities and latest news.

If you have suggestions or research that you would like to share in upcoming newsletters, please contact bolin@su.se.
Please note that the newsletter is typically sent once a month.

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SOCIAL MEDIA