



Week 37, 2022

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Newsletter revival

Dear Bolin members, it has been a hectic period of new recruitment in the Directorate, followed by the summer vacation. We will now try to gradually revive our newsletter with the ambition to have it published regularly from mid-October.

If you have suggestions that you would like to include or research that you would like to share in coming Newsletters, please send this to bolin@su.se.

New coordinator of the Bolin Centre

After a rather long recruitment process, we are pleased to introduce Maria Basova, who recently became the new coordinator of the Bolin Centre. We are sure that her skills and experience will benefit the smooth operation and development of the Centre. Sara Gershagen will remain as coordinating support for at least the remainder of the year.

Maria previously worked as a Program Manager and Organizational Developer for the network of environmental NGOs, coordinating environmental projects in the Baltic Sea catchment and has studied ecology in Kharkiv National University.

"I have a genuine passion for organizing processes and do not hesitate to challenge myself in both my professional and private life. During recent years, in addition to project management and coordination, my work has focused on results-based management, theory of change and monitoring of results. Diving into a new area of climate research seems challenging but tempting to me, and I look forward to contributing with my expertise to the life of the network."

You can contact Maria Basova by mail:
bolin@su.se or maria.basova@aces.su.se



Photo: Uly Konstantinow

EVENTS

Mini symposium on Arctic air-mass intrusions and the onset of Arctic ocean sea-ice melt

In spring of 2023 the ARTofMELT (Atmospheric rivers and the onset of sea-ice melt) program will take the Swedish research icebreaker Oden up into the Arctic sea ice in May and June, with an aim to improve the understanding of when and how melt actually starts. As a part of the preparations and planning a mini-symposium is held on this theme together with the Bolin Centre on 11 October 1.00 PM - 5.00 PM in Geoscience building Y.

For more information and full program [click here](#).

Open Lecture by Professor Karen Kohfeld

Karen Kohfeld, professor at Simon Fraser University, Canada, is a world-leading expert in the global carbon cycle with specialization in the role of dust and the ocean circulation in long-term global climate change. She is particularly known for her work in developing datasets of important paleoclimate archives. Karen Kohfeld has strong research links to Stockholm University and also serves as a member of the External Science Advisory Group for the Bolin Centre for Climate Research since 2016.



Photo: Elena Sarasom

Prof Karen Kohfeld will be in Stockholm 26 Sep–6 Oct to receive her SU honorary doctorate. To mark the occasion, she agreed to give an [open lecture on October 3 at the Geoscience building](#).

The Bolin Days 15-16 November 2022

Date: 15 November 2022, 10.00 AM - 16 November 2022, 5.00 PM

Venue: Aula Magna, Stockholms universitet

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 Area leaders.

An invitation with more information, registration and call for posters will be sent out shortly.

Here is the preliminary program for the 14th Bolin Days:

November 14

13.00–17:00 | Early Career Researcher activities (PhD students and post-docs)

17.00/17.30– | Early Career Researcher social event

November 15

Aula Magna and Zoom

10.00–11.30 | Session 1: Directorate welcomes all and presents future direction/strategy of Centre

11.30–13.00 | Lunch and posters

13.00–14.30 | Session 2: (RT4) Climate, ecosystems and biodiversity

14.30–15.00 | Fika

15.00–16.30| Session 3: (RT1) The physical-chemical climate system
17.00– | Mingle and dinner at the Nobel Museum, Gamla Stan (TBC)

November 16

Aula Magna and Zoom

10.00–11.30 | Session 4: Invited speakers from collaborating centers

11.30–13.00 | Lunch and posters

13.00–14.30 | Session 5: (RT3) Past Climates

14.30–15.00 | Fika

15.00–16.30| Session 6: (RT2) Water, biogeochemistry and climate

16.30– | Social event in the Geoscience building (TBC)

Early career researchers' event organized by the Climate Research School in connection to the Bolin Days 2022

The Bolin Centre Climate Research School organizes climate-related courses and summer schools for PhD students within the Bolin Centre. The courses are based on feedback and demand-driven, which students consider valuable for their future careers as researchers.

The event is a great opportunity for PhD students to network with other early career scientists from beyond the Bolin Centre. Participants will have the chance to try their hand at group proposal writing for interdisciplinary research.

The Climate Research School also offers funding to PhD students to support their active participation in conferences, field courses and workshops.

Date: 14 November 2022, 1.00 PM - 5.30 PM

More information and registration soon to come!



Photo: Tobias Dahms

Bert Bolin Climate lecture, 23 November

Every year, a distinguished Bert Bolin Climate Lecturer is invited to Stockholm to hold a popular science lecture and a science seminar at the Bolin Centre for Climate Research. This years lecturer is professor Hans Joosten.

Prof. Hans Joostens is an internationally renowned peatland scientist, conservationist and educator. Throughout his career, he has made extraordinary efforts to raise awareness for the role of peatlands in the Earth system. He has acted as general Secretary (since 2000) of the International Mire Conservation Group (IMCG) and has been co-founder and Coordinating Committee member (since 2015) of the Greifswald Mire Centre (<https://www.greifswaldmoor.de/home.html>). In 2021, he was awarded the prestigious German Environmental Award established by the German Federal Foundation for the Environment (DBU).

Bert Bolin Science Seminar 23 November 9 AM-11.30 AM, DeGeersalen.
Bert Bolin Climate Lecture 23 November 1 PM-3.30 PM, Aula Magna.

PUBLICATIONS

Recent Bolin Centre publications

On bolin.su.se/publications you'll find a list of scientific journal publications by Bolin Centre scientists. Here are the most recent ones we have published on the website for 2022.

- Matthew D. Shupe, et al. including Gunilla Svensson (2022): Overview of the MOSAiC expedition: Atmosphere. *Elementa*, 10 (1): 00060. doi: <https://doi.org/10.1525/elementa.2021.00060>
- Wild, B., Shakhova, N., Dudarev, O., Ruban, A., Kosmach, D., Tumskoy, V., Tesi, T., Grimm, H., Nybom, I., Matsubara, F., Alexanderson, H., Jakobsson, M., Mazurov, A., Semiletov, I., and Gustafsson, Ö, 2022. Organic matter composition and greenhouse gas production of thawing subsea permafrost in the Laptev Sea. *Nature Communications*: v. 13, no. 1, p. 5057. <https://doi.org/10.1038/s41467-022-32696-0>
- Glueder, A., Mix, A.C., Milne, G.A., Reilly, B.T., Clark, J., Jakobsson, M., Mayer, L., Fallon, S.J., Southon, J., Padman, J., Ross, A., Cronin, T., McKay, J.L., 2022. Calibrated relative sea levels constrain isostatic adjustment and ice history in northwest Greenland. *Quaternary Science Reviews*: 293, 107700. <https://doi.org/10.1016/j.quascirev.2022.107700>
- Mauritsen, T., Redler, R., Esch, M., Stevens, B., Hohenegger, C., Klocke, D., Brokopf, R., Haak, H., Linardakis, L., Röber, N. and Schnur, R., 2022. Early Development and Tuning of a Global Coupled Cloud Resolving Model, and its Fast Response to Increasing CO₂. *Tellus A*: 74(1), pp.346–363. <http://doi.org/10.16993/tellusa.54>



Bolin Centre Database

Since October last year, the list of new items comprise more than 60 datasets in our data repository (<https://bolin.su.se/data/>) and also 3 source code projects in

our code repository (<https://git.bolin.su.se/bolin>). All this is thanks to many productive scientists in our centre.

Among all the datasets published in the last 12 months, are a few outstanding items which are in some way more than a single typical dataset. In particular, we want to highlight:

- Oden Scientific Party (2022) Oden data repository. Dataset version 5. <https://doi.org/10.17043/oden-data-repository-5>. This is a collection of 123 datasets acquired at the Swedish icebreaker Oden during 19 expeditions held between 2007 and 2021, of which 16 went to the Arctic Ocean and 3 to the Southern Ocean. This collection is expected to grow, and new versions with more datasets will be published as soon as the scientists make them available.
- Tarfala Research Station staff (2022) Elevation of the ice-covered southern peak, Sydtoppen, of the Kebnekaise massif, Northern Sweden. <https://doi.org/10.17043/tarfala-sydtoppen-elevation-1>. This is the first dataset to be published in what we plan to be a collection with many more datasets from the Tarfala Research Station. Thus, we hope that there will soon be a Tarfala data collection that will look somewhat similar to the one with data from Oden.
- Sylvain Monteux (2022) Data analysis pipeline for bacterial community composition and CO₂ fluxes in a permafrost-Collembola incubation. Software version 1.1.1. Bolin Centre Code Repository. <https://doi.org/10.57669/monteux-2022-collembola-1.1.1> We show this as an example to demonstrate both that we have a repository for source code and that we can mint DOIs to specific versions of a source code project. We have been minting DOIs to our datasets already since 2019, but now we also do it for source code.

Another important piece of news from the Bolin Centre Database is our web pages with information about research data support at the Bolin Centre (<https://bolin.su.se/data/support/>), which we released just before summer this year. These pages contain information on what kind of support and service our scientists can get, both from support staff within the Bolin Centre and from the central Research Data Management Team at Stockholm University. For example, detailed information about how to publish data and code is found at <https://bolin.su.se/data/support/publish>. All our scientists are welcome to contribute to our growing data and code repositories! Please, contact the database staff at bolindata@su.se if you need assistance.

The Bolin Centre News Letter provides you with a selection of our current activities and latest news and is sent to all members of the Bolin Centre. In this News Letter, we have added just a couple of all the events going on within the Bolin Centre. If you have suggestions that you would like to include or research that you would like to share in coming News Letters, please contact bolin@su.se. Note that the News Letter frequency is not yet decided.

Editor: Sara Gershagen: 076-698 41 02 sara.gershagen@su.se (Coordination)

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