



Stockholm  
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 3, 2022

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The Bolin Centre is a multi-disciplinary consortium of over 400 scientists in Sweden that conducts research and graduate education related to the Earth's climate.



### Greetings from the new Co-directors

Dear members of the Bolin Centre,

Happy new year 2022 – hopefully it has started well for you all!

We are excited to step in as the new directors of the Bolin Centre. It is humbling to explore the breadth of the excellent research, education and outreach that is going on! We look forward to learning more about the work that you do, and helping to form our path into the future together. We hope that this path will be filled with excellent research, endless opportunities to learn, and new fruitful connections.

In many ways, 2022 will be an intermediate year for the Bolin Centre, during which the foundation of the upcoming years will be laid. During this year, we seek to update the Bolin Centre strategy, and consolidate the structure and the scientific core of the Centre together with you – exploring and finding new exciting questions to tackle. We believe that this will eventually also enable the Bolin Centre to strengthen its links to the key stakeholders – to respond to the unprecedented societal momentum for understanding the climate, and minimizing our negative impacts on the planet we call our home.

Looking forward to working with you in the coming years!

Ilona (ilona.riipinen@aces.su.se) and Gustaf (gustaf.hugelius@natgeo.su.se)

### New staff member

The Bolin Centre welcomes Sara Gershagen to the administrative team. Sara will be working part-time and help out with coordinating the Bolin Centre Board and SAG meetings.

### Publications - Bolin Centre 2021

**We are finalizing the scientific journal publication list for 2021 on**

[bolin.su.se/publications](https://bolin.su.se/publications) »

**Make sure that your publication is on the list, in order for it to make it to the Annual Report 2021. If it's not there, please submit it to [bolin@su.se](mailto:bolin@su.se) no later than January 28th.**



Publications

#### Recent Bolin Centre publications

Here are the most recent ones we have published on the website for 2021.

- Nygård, T., M. Tjernström, and T. Naakka, T., 2021: Winter thermodynamic vertical structure in the Arctic atmosphere linked to large-scale circulation, *Weather and Climate Dynamics*, 2, 1263–1282, <https://doi.org/10.5194/wcd-2-1263-2021>

- Nosenzo, F., Manzotti, P., Poujol, M., Ballèvre, M., and Langlade, J., 2021. A window into an older orogenic cycle: P-T conditions and timing of the pre-Alpine history of the Dora-Maira Massif (Western Alps). *Journal of Metamorphic Geology*. Open Access. <https://doi.org/10.1111/jmg.12646>
- Thomas, M. A., Devasthale, A., and Kahnert, M., 2021. Marine aerosol properties over the Southern Ocean in relation to the wintertime meteorological conditions, *Atmos. Chem. Phys.*: 22, 119–137. <https://doi.org/10.5194/acp-22-119-2022>
- Rosqvist, G. C., Inga, N., Eriksson, P. 2021. Impacts of climate warming on reindeer herding require new land-use strategies. *Ambio*, 40: 566-574. <https://doi.org/10.1007/s13280-021-01655-2>
- Fohringer, C., Rosqvist, G., Inga, N., Singh, N.J. 2021. Reindeer husbandry in peril? How extractive industries exert multiple pressures on an Arctic pastoral ecosystem. *People and Nature* 3: 872–886. <https://doi.org/10.1002/pan3.10234>
- Nilsson, A. E., Avango, D., Rosqvist, G. 2021. Social-ecological-technological systems consequences of mining: An analytical framework for more holistic impact assessments. *The Extractive Industries and Society*, 8(4): 101011. <https://doi.org/10.1016/j.exis.2021.101011>
- Pruischer, P., S. Nylin, C. W. Wheat, and K. Gotthard. 2021. A region of the sex chromosome associated with population differences in diapause induction contains highly divergent alleles at clock genes. *Evolution* 75:490-500. <https://doi.org/10.1111/evo.14151>
- Lindestad O, Aalberg Haugen IM, Gotthard K. 2021. Watching the days go by: Asymmetric regulation of caterpillar development by changes in photoperiod. *Ecology and Evolution* 11:5402– 5412. <https://doi.org/10.1002/ece3.7433>
- Rowiński PK, Sowersby W, Näslund J, Eckerström-Liedholm S, Gotthard K, Rogell B. 2021. Variation in developmental rates is not linked to environmental unpredictability in annual killifishes. *Ecology and Evolution* 11:8027– 8037. <https://doi.org/10.1002/ece3.7632>
- von Schmalensee L, Hulda Gunnarsdóttir K, Näslund J, Gotthard K, Lehmann P. 2021. Thermal performance under constant temperatures can accurately predict insect development times across naturally variable microclimates. *Ecology Letters* 24:1633 –1645. <https://doi.org/10.1111/ele.13779>

Please send your newly published publication to [bolin@su.se](mailto:bolin@su.se) »

## Swedish Climate Symposium – 16–18 May 2022

In 2022, we organize The Swedish Climate Symposium in Norrköping, Sweden. The 2.5 day conference will be a meeting spot for national and international researchers and persons working within the climate area in public and private organizations.

**Time:** 16–18 May 2022

**Venue:** in-person event in Norrköping, but online possible

**Abstract submission:** no later than 15 February

**Registration:** no later than 15 March

The conference fee is waived for Bolin Centre members. In addition, the Bolin Centre will finance costs for travel and lodging for a limited number of Bolin Centre attendees. If you are interested to receive the financial support, you must notify us via [bolin@su.se](mailto:bolin@su.se) no later than 31 January. We will refer back to you shortly after that date.

Organizers: SMHI, the Strategic Research Areas MERGE and BECC, and the Bolin Centre for Climate Research.

Partners: SMHI/Rosby centre, Lunds Universitet, Göteborgs Universitet, Stockholms universitet, KTH, Chalmers och Linneausuniversitet

Read more on the [Bolin Centre website](#) »

For programme, registration and abstract submission, visit [the Swedish Climate Symposium website](#) »

## Swedish Climate Symposium - Side event for PhD students

The coordinators of the Bolin Centre Climate Research School and ClimBEco cordially invite PhD students of their respective research schools to an exclusive side event on the symposiums second day, May 17, a GREAT opportunity to meet other climate scientists to discuss science and get to know other early-career researchers.

Registration deadline: March 18, 2022

For more information and registration, visit [Centre for Environmental and Climate Science's website](#) »



### Tarfala Research Station Workshop

Welcome to a workshop where we provide inspiration and discuss possibilities to conduct field work in the Swedish Arctic at Tarfala Research Station, TRS. TRS is hosted by the Dept. of Physical Geography at Stockholm University and is Sweden's only research station located right next to glaciers in an Arctic alpine environment. The station is situated in the Tarfala Valley under the Kebnekaise Mountains in northern Sweden and can host up to 30 national and international researchers and students at a time.

**Time:** 7 February 2022, 10h00-14h00

**Venue:** De Geer Hall, Geoscience Building, Stockholm University and Zoom

**Organized by:** [Tarfala Research Station](#) »

[Read more and registration on the Bolin Centre website](#) »

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### Experts are invited to review IPCC's AR6 Synthesis Report

The registration for expert review of IPCC's AR6 Synthesis Report is open. The review period is between 10 January - 20 March. Last day to register is 13 March.

Read more on [SMHI's website \(Swedish\)](#) »

Register as expert reviewer on [IPCC's website](#) »

What is an Expert reviewer of IPCC reports? Read more on [IPCC's website](#) »

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### ERC Starting Grant to Bolin Centre researcher Birgit Wild

The European Research Council (ERC) Starting Grant 2021 has awarded 397 researchers in Europe up to 1,5 million euro, to develop their research project and to building their own research teams. Birgit Wild at the Department of Environmental Science is one of them. Her project is titled PRIMETIME Rhizosphere priming: Quantifying plant impacts on carbon dioxide emissions from a warming Arctic. Big congratulations!

[Read article on the Department of Environmental Science's website](#) »

[Read more on Swedish Research Council's website](#) »

## CALENDER

27

Jan

### Review seminar: Extreme sensitivity in Snowball Earth formation to mountains on PaleoProterozoic supercontinents

**Time:** 27 January, at 14h15-15h15

**Speaker:** Martin Renoult, PhD, Department of Meteorology

**Venue:** Zoom <https://stockholmuniversity.zoom.us/j/3723594558>

**Organizer:** Department of Meteorology

7

Feb

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**Organizer:** [Tarfala Research Station](#) »

[Read more and registration on the Bolin Centre website](#) »

16-18

May

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**Time:** 16-18 May

**Organizers:** SMHI, the Strategic Research Areas MERGE and BECC,

and the Bolin Centre for Climate Research

**Read more:** [The Bolin Centre website »](#)



**Save the date: The Bolin Days**

**Time:** 15-16 November

## OFFICE STAFF - BOLIN CENTRE AT CAMPUS

Due to COVID-19, the Bolin Centre Office will be irregularly staffed at the University. Sometimes, we work from home. Don't hesitate to get in touch with us via mobile or e-mail.

- Magnus: 076-695 70 78, [magnus.atterfors@su.se](mailto:magnus.atterfors@su.se) (Communications)
- Annika: 072-148 91 49 [annika.granebeck@su.se](mailto:annika.granebeck@su.se) (Coordination)
- Sara Gershagen: 076-698 41 02 [sara.gershagen@su.se](mailto:sara.gershagen@su.se) (Coordination)

The **Bolin Centre Weekly News** provides you with a selection of our current activities and latest news and is sent to all members of the Bolin Centre. If you have suggestions that you would like to include or **research that you would like to share** in coming Weekly News, please contact [bolin@su.se](mailto:bolin@su.se).

Editor: Magnus Atterfors

Photo: Martin Jakobsson, Annika Granebeck

### **Stay updated**

Find news and upcoming events at [bolin.su.se](http://bolin.su.se) and follow us on [Twitter](#), [Facebook](#) and [YouTube](#).

