



Stockholm  
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 13, 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.



### Arctic climate research on hold due to Ukraine conflict

Russia's invasion of Ukraine could lead to a Swedish-led Arctic expedition being postponed with implications for collecting important data on the connection between climate, sea ice and the release of greenhouse gases in the Arctic.

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

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### Funding opportunities for Ukrainian researchers

Stockholm University has gathered relevant calls and other initiatives for Ukrainian researchers. Read more on [Stockholm University's website](#) »

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### Wallenberg grant to Bolin member Josefin Ahlkrona

Assistant Professor Josefin Ahlkrona will receive funding from the Knut and Alice Wallenberg Foundation to recruit an international researcher for a postdoctoral position at the Department of Mathematics, Stockholm University.

The purpose of the planned project is to develop models for the structure of the ice sheets and to create more efficient algorithms for calculating ice melt.

Read the article on [Stockholm University's website](#) »

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### Projektet ARCPATH avslutat: på god väg mot resilienta och hållbara samhällen

Forskningsprojektet ARCPATH (Arctic Climate Predictions: Pathways to Resilient, Sustainable Societies) är avslutat efter fyra år. Syftet med projektet har varit att undersöka vägar till resilienta och hållbara samhällen genom att ta fram klimatprojektioner i Arktis och att tolka effekterna av klimatförändringar på lokala samhällen i Island, Grönland och norra Norge. Projektet finansierades av NordForsk.

## Job opportunity: Scientist with Expertise in Machine Learning

Do you want to be involved in developing tomorrow's climate knowledge and a qualified decision basis for society and business? To meet society's expectations for information about future climates, SMHI Rosby Centre is now complementing its staff.

[Read more on SMHI's website](#) »

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## Transdisciplinary CIVIS course in Global Change Biology

This is an opportunity for master students to attend a transdisciplinary CIVIS course (6 ETCS) in Global Change Biology. The students will have the chance to study in an international environment.

The course is a great opportunity to learn about global change and its drivers, with a major focus on key drivers of environmental change and its effect on biodiversity and human society. It will be taught by international experts from Italy, Belgium, and Sweden. The course is open to students that hold a bachelor's degree in any discipline but with at least one exam related to ecology, environmental or natural sciences, and with a B2 level of English. The course, which comes as a collaboration among Sapienza University, Bruxelles University and Stockholm University, will be held in Rome next semester and is open for remote participation to students from the CIVIS network.

See attachment in this email and read more on [CIVIS website](#) »

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### Publications

#### Recent Bolin Centre publications

On [bolin.su.se/publications](http://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.

- Singh, C., van der Ent, R., Wang-Erlandsson, L., & Fetzer, I. (2022). Hydroclimatic adaptation critical to the resilience of tropical forests. *Global Change Biology*. <https://doi.org/10.1111/gcb.16115>
- Izdebski, A., Guzowski, P., Poniat, R., Masci, L., Palli, J., Vignola, C., Bauch, M., Coccozza, C., Fernandes, R., Ljungqvist, F.C., et al. 2022. Palaeoecological data indicates land-use changes across Europe linked to spatial heterogeneity in mortality during the Black Death pandemic. *Nature Ecology & Evolution*, 6: 297–306: <https://doi.org/10.1038/s41559-021-01652-4>
- Eckes-Shephard, A.H., Ljungqvist, F.C., Drew, D.M., Rathgeber, C.B.K. & Friend, A.D., 2022. Wood formation modelling – a research review and future perspectives. *Frontiers in Plant Science*, 13: 837648, <http://doi.org/10.3389/fpls.2022.837648>
- Magnússon, R.Í., Hamm, A., Karsanaev, S.V. et al. Extremely wet summer events enhance permafrost thaw for multiple years in Siberian tundra. *Nat Commun* 13, 1556 (2022). <https://doi.org/10.1038/s41467-022-29248-x>
- Chen, K., Axelsson, J., Zhang, Q., Li, J., & Wang, L. 2022. EC-Earth simulations reveal enhanced inter-hemispheric thermal contrast during the Last Interglacial further intensified the Indian monsoon. *Geophysical Research Letters*, 49, e2021GL094551. <https://doi.org/10.1029/2021GL094551>
- Feng, R., Bhattacharya, T., Otto-Bliesner, B. L., Brady, E. C., Haywood, A. M., Tindall, J. C., Hunter, S. J., Abe-Ouchi, A., Chan, W.-L., Kageyama, M., Contoux, C., Guo, C., Li, X., Lohmann, G., Stepanek, C., Tan, N., Zhang, Q., Zhang, Z., Han, Z., Williams, C. J. R., Lunt, D. J., Dowsett, H. J., Chandan, D., and Peltier, W. R. 2022. Past terrestrial hydroclimate sensitivity controlled by Earth system feedbacks, *Nature Communications*, 13, 1306, <https://doi.org/10.1038/s41467-022-28814-7>
- Matana Levi, Derek E Lee, Monica L Bond, Anna C Treydte. Forage selection by Masai giraffes (*Giraffa camelopardalis tippelskirchi*) at multiple spatial scales. *Journal of Mammalogy*, gvac007, <https://doi.org/10.1093/jmammal/gvac007>
- Abhay Prakash, Qin Zhou, Tore Hattermann, Weiyang Bao, Rune Graversen, Nina Kirchner. A nested high-resolution unstructured grid 3-D ocean-sea ice-ice shelf setup for numerical investigations of the Petermann ice shelf and fjord, *MethodsX*, ScienceDirect. <https://doi.org/10.1016/j.mex.2022.101668>
- Meier, H.E.M., Kniebusch, M., Dieterich, C., Gröger, M., Zorita, E., Elmgren, R., Myrberg, K., Ahola, M., Bartosova, A., Bonsdorff, E., Börgel, F., Capell, R., Carlén, I., Carlund, T., Carstensen, J., Bøssing Christensen, O., Dierschke, V., Frauen, C., Frederiksen, M., Gaget, E., Galatius, A., Haapala, J.J., Halkka, A., Hugelius, G., Hünicke, B., Jaagus, J., Jüssi, M., Käyhkö, J., Kirchner, N., Kjellström, E., Kulinski, K., Lehmann, A., Lindström, G., May, W., Miller, P.A., Mohrholz, Müller-Karulis, B., Pavon-Jordan, D., Quante, M., Reckermann, M.,

Rutgersson, A., Savchuk, O.P., Stendel, M., Tuomi, L., Viitasalo, M., Weisse, R., Zhang, W. Climate Change in the Baltic Sea Region: A Summary. Earth System Dynamics. <https://doi.org/10.5194/esd-13-457-2022>

- Piemontese, L., Kamugisha, R.N., Barron, J., Tukahirwa, J.M.B., Harari, N., Jaramillo, F., 2022. Investing in sustainable intensification for smallholders: quantifying large-scale costs and benefits in Uganda. Environ. Res. Lett. 17, 045010. <https://doi.org/10.1088/1748-9326/ac5ae0>

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

## CALENDER

5

April

### Guest seminar: Michael Gallagher, NOAA/CIRES

**Title:** Understanding Greenland ice sheet mass changes and daily snowfall variability, a regional atmospheric circulation perspective

**Time:** 5 April at 11h15-12.15 online via Zoom

**Location:** C609 Rossbysalen, MISU, Svante Arrhenius väg 16C, 6th floor

**Organizer:** [Dep't of Meteorology](#)

13

April

### PhD Thesis Defence: Emelie Graham

**Title:** Insights into key processes governing atmospheric aerosol loadings and their interactions with clouds

**Time:** 13 April at 09h00

**Venue:** De Geersalen, Geovetenskapens hus and via [Zoom](#) »

**Abstract:** <https://www.diva-portal.org/smash/record.jsf?pid=diva2:1641062>

**Organizer:** [Dep't of Environmental Science](#) »

16-18

May

### Swedish Climate Symposium – 16–18 May 2022

The 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

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

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

15-16

Nov

### 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)
- 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, Inna Nybom

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