



Stockholm  
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 42, 2021

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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.



The Bolin Days 2021 - Welcome to register!

[Register for the Bolin Days 2021 here »](#)

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. You have the opportunity to meet our External Science Advisory Group, there will be a poster exhibition and as usual, a poster competition for PhD students. We start both days with a lunch at 11h00. The Bolin Days ends with a dinner in Aula Magna's Gallery on day two, followed by a pub and a Ceilidh in Geovetenskapens hus.

#### Hybrid event

The Bolin Days this year will take place in Aula Magna and Geovetenskapens hus, Stockholm University, and via Zoom.

#### Call for posters and PICO presentations

The Bolin Days 2021 will have its traditional poster exhibition, this year in Geovetenskapens hus. The deadline for submission of poster and PICO presentations is 15 November. [Instructions are found here »](#)

The program for the Bolin Days is under development, and the full program will be available on the Bolin Centre website at a later stage.

Welcome!



Study finds airborne microplastics can impact climate change

Airborne microplastics may have a minor cooling effect on the climate by reflecting solar radiation, according to a modelling study of the direct global climate effects of airborne microplastics, published in Nature. However, as plastic continues to accumulate in the Earth's environment, a stronger climate effect could be exerted in the future.



## Publications

### Recent Bolin Centre publications

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

- Larsson, S.A. & Wastegård, S., 2021. A high-resolution Lateglacial–Early Holocene tephrostratigraphy from southernmost Sweden with comments on the Borrobol–Penifiler tephra complex. *Quaternary Geochronology*. doi:10.1016/j.quageo.2021.101239
- Hamm, A. and Frampton, A., 2021. Impact of lateral groundwater flow on hydrothermal conditions of the active layer in a high-Arctic hillslope setting, *The Cryosphere*, 15, 4853–4871. <https://doi.org/10.5194/tc-15-4853-2021>
- Olefeldt, D., Heffernan, L., Jones, M.C., Sannel, A.B.K., Treat, C.C. and Turetsky, M.R., 2021. Permafrost Thaw in Northern Peatlands: Rapid Changes in Ecosystem and Landscape Functions, pp. 27–67. In: Canadell, J.G. and Jackson, R.B. (Eds.) 2021: *Ecosystem Collapse and Climate Change*. 364 pp. Springer. [https://link.springer.com/chapter/10.1007/978-3-030-71330-0\\_3](https://link.springer.com/chapter/10.1007/978-3-030-71330-0_3)
- Ghajarnia, N., Kalantari, Z., & Destouni, G., 2021. Data-Driven Worldwide Quantification of Large-Scale Hydroclimatic Covariation Patterns and Comparison With Reanalysis and Earth System Modeling. *Water Resources Research*, 57(10), e2020WR029377. <https://doi.org/10.1029/2020WR029377>
- Elvidge, A.D., Renfrew, I.A., Brooks, I.M., Srivastava, P., Yelland, M.J., Prytherch, J., 2021. Surface Heat and Moisture Exchange in the Marginal Ice Zone: Observations and a New Parameterization Scheme for Weather and Climate Models. *JGR Atmospheres*. <https://doi.org/10.1029/2021JD034827>
- Haesen, S., Lembrechts, J.J., De Frenne, P., Lenoir, J., Aalto, J., Ashcroft, M.B., Kopecký, M., Luoto, M., Maclean, I., Nijs, I., Niittynen, P., van den Hoogen, J., Arriga, N., Brůna, J., Buchmann, N., Čiliak, M., Collalti, A., De Lombaerde, E., Descombes, P., Gharun, M., Goded, I., Govaert, S., Greiser, C., Grelle, A., Gruening, C., Hederová, L., Hylander, K., Kreyling, J., Kruijt, B., Macek, M., Máliš, F., Man, M., Manca, G., Matula, R., Meeussen, C., Merinero, S., Minerbi, S., Montagnani, L., Muffler, L., Ogaya, R., Penuelas, J., Plichta, R., Portillo-Estrada, M., Schmeddes, J., Shekhar, A., Spicher, F., Ujháziová, M., Vangansbeke, P., Weigel, R., Wild, J., Zellweger, F., Van Meerbeek, K., 2021. ForestTemp – Sub-canopy microclimate temperatures of European forests. *Global Change Biology*. <https://doi.org/10.1111/gcb.15892>

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

## Marine Research Day 2021

The Swedish Society for Marine Sciences welcomes everyone who is engaged and interested in marine sciences, management and environmental monitoring to this conference on the SEA! The meeting focuses on current aspects of research, management and environmental monitoring in marine systems. In addition to oral presentations and a digital poster session, there will be room for networking.

**When:** November 23-24

**Where:** ZOOM and Konferenscenter Wallenberg, Medicinaregatan 20, Göteborg

[Read more on The Swedish Society for Marine Sciences website »](#)

28

Oct

### Seminar: Flying less: How can we go from words to action and reduce our flying at SU?

Academic flying constitutes a large part of SU:s total carbon emissions. We need to reduce our flying, but how?

Welcome to a seminar about academic flying which aims at giving you facts and inspiration to take on the challenges of reducing flying at SU.

**Location:** De Geersalen (Geoscience building, house Y) and via zoom

**Time:** 28 October, 13h00-15h00

**Deadline to register:** 22 October

[Read more and register for the event »](#)

28

OKT

### Seminar: Endless Forums: Automating large-scale geobiological studies using deep learning

**Time:** 28 October, at 15h00-16h00

**Location:** William-Olsson lecture hall and Zoom

**Speaker:** Allison Hsiang, Researcher at the Dep't of Geological Sciences

[Read more on Dep't of Geological Sciences website »](#)

### Workshop: The Precautionary Principle - Dead or Alive?

- |              |   |
|--------------|---|
| 28<br>Oct    | <p>This workshop is aimed at exploring examples of ways in which the precautionary principle has been applied, and discussing the barriers and enablers to a wider application to 21st century challenges.<br/> <b>Time:</b> October 28, at 15h00-16h15<br/> <b>Venue:</b> Zoom<br/> <a href="#">Read more on Dep't of Environmental Sciences website »</a></p>   |
| 28<br>Oct    | <p><b>Review Seminar: New particle formation in the atmosphere: what do we know today?</b><br/> <b>Speaker:</b> Roman Bardakov, PhD student at MISU<br/> <b>Zoom link:</b> <a href="https://stockholmuniversity.zoom.us/j/63517037048">https://stockholmuniversity.zoom.us/j/63517037048</a><br/> <a href="#">Read more on Department of Meteorology's website »</a></p>  |
| 31<br>Oct    | <p><b>Nyfiken på COP26?</b><br/> Klimatkonferensen COP26 pågår i Glasgow mellan 31 oktober–12 november. Forskare från Bolincentret för klimatforskning finns på plats i Kulturhuset båda veckorna och kommer att live-sända presentationer och intervjuer med forskare i Glasgow. Eventet sker i samverkan med Kulturhuset, Bolincentret och organisationen International Cryosphere Climate Initiative (ICCI).<br/> Läs mer på <a href="#">Bolincentrets webbplats »</a> och på <a href="#">Kulturhusets webbplats »</a></p> |
| 11<br>Nov    | <p><b>RA3 zoom series   Perspectives of Hydrology and Water Resources</b><br/> <b>Time:</b> 11 November 2021, 15h00 - 16h00<br/> <b>Venue:</b> Zoom<br/> <b>Title:</b> The variability of water storage and fluxes over large tropical river basins from multi-satellite observations and their impacts on the land-ocean continuum<br/> <b>Speaker:</b> Fabrice Papa, Institut de Recherche pour le Développement (IRD), LEGOS-France<br/> <a href="#">Read more on Bolin Centre's website »</a></p>                         |
| 15<br>Nov    | <p><b>Bolin Centre Seminar Series RA3</b><br/> <b>Title:</b> Freshwater salinisation – drivers and impacts in river basins around the world<br/> <b>Date:</b> Monday 15 November<br/> <b>Time:</b> 14h00-15h00<br/> <b>Speaker:</b> Josefin Thorslund, researcher in hydrology at the Department of Physical Geography<br/> <b>Location:</b> William Olsson and Zoom<br/> <a href="#">Read more on the Bolin Centre website »</a></p>   |
| 17<br>Nov    | <p><b>Workshop: Wikipedia – a source for information and outreach</b><br/> <b>Date:</b> 17 November 2021, 13h00 -15h00<br/> <b>Venue:</b> William-Olsson lecture hall<br/> <b>Workshop leader:</b> Olle Terenius, malaria researcher, Uppsala University.<br/> <b>Who can join:</b> Students in Climate Research School<br/> <b>Deadline for application:</b> 12 November<br/> <a href="#">Read more and apply »</a></p>  |
| 18-19<br>Nov | <p><b>Bolin Days 2021 in Aula Magna</b><br/> <b>Date:</b> 18-19 November, 11h00 - 19h00<br/> <b>Venue:</b> Aula Magna &amp; via Zoom<br/> <a href="#">Read more and register on the Bolin Centre website »</a></p>  |
| 7<br>Dec     | <p><b>Bolin Centre Seminar Series RA7</b><br/> <b>Speaker:</b> Roland Jansson, professor at the Department of Ecology and Environmental Science, Umeå University<br/> <b>Time:</b> 7 December, 14h00-15h00<br/> More info will follow!</p>  |

## OFFICE STAFF - BOLIN CENTRE AT CAMPUS

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

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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, Alex Aves

**Stay updated**

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