



Stockholm  
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 25, 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.



Dear members of the Bolin Centre,

with midsummer around the corner, we would like to take the opportunity to thank you for contributing to the Bolin Centre, and importantly, also for reporting your publications to us so that they can be included on [www.bolin.su.se/publications](http://www.bolin.su.se/publications).

Also, we would like to thank all members of the Bolin Centre who have shared their thoughts concerning the future of the Bolin Centre with us - either in the "listening sessions" conducted with the SAG and the Board, or in other ways. Your input is valuable and much appreciated, and we will move forward in defining the future of the Bolin Centre after the summer.

For now, we hope that you find the time to enjoy a relaxing summer break, and look forward to seeing you again in the fall!

All the best, glad midsommar!

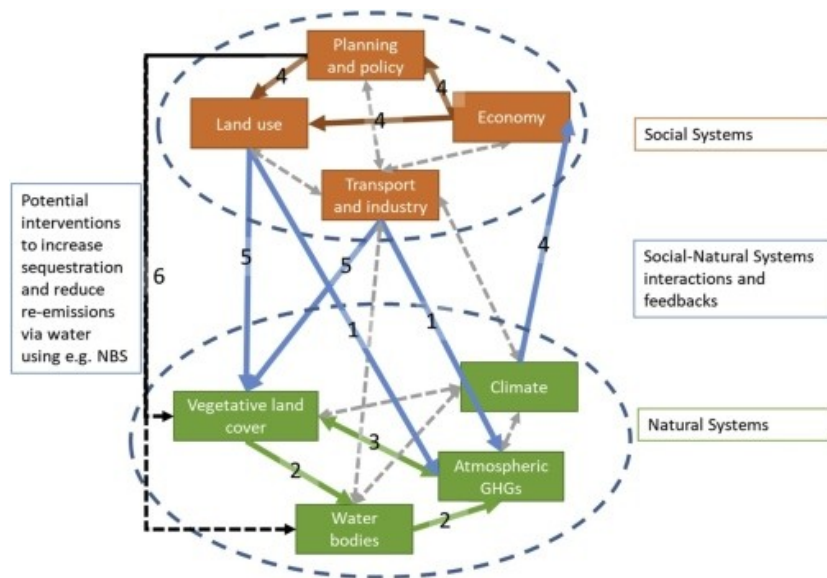
Nina Kirchner, Alasdair Skelton, Magnus Atterfors, Annika Granebeck and Laila Islamovic



Climate warming can influence fungal communities on oak leaves across the growing season

Climate warming plays a larger role than plant genes in influencing the number and identity of fungal species on leaves, especially in autumn. Recently published in the journal *New Phytologist*, this research by ecologists sheds light on how warming and tree genes affect the dynamics of fungal communities across the season.

[Read article on Department of Ecology, Environment and Plant Sciences' website »](#)



### AI-powered knowledge integration to carbon-neutral cities

New funding to researchers at Stockholm University from Formas for the four-year project "AI-based knowledge integration for the conversion of cities and communities to climate neutrality".

[Read article on Department of Physical Geography's website »](#)



### 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.

- Linnea Huusko, Frida Bender, Annica Ekman, Trude Storelvmo, 2021. Climate sensitivity indices and their relation with projected temperature change in CMIP6 models Environmental Research Letters, <https://iopscience.iop.org/article/10.1088/1748-9326/ac0748>
- Väiliranta, M., Marushchak, M.E., Tuovinen, J-P., Lohila, A., Biasi, C., Voigt, C., Zhang, H., Piilo, S., Virtanen, T., Räsänen, A., Kaverin, D., Pastukhov, A., Sannel, A.B.K., Tuittila, E-S., Korhola, A., Martikainen, P.J., 2021. Warming climate forcing impact from a sub-arctic peatland as a result of late Holocene permafrost aggradation and initiation of bare peat surfaces. Quaternary Science Reviews 264, 107022. [doi:10.1016/j.quascirev.2021.107022](https://doi.org/10.1016/j.quascirev.2021.107022)
- Tunved, P., Cremer, R., Zieger, P, and Ström, J. 2021. Using correlations between observed equivalent black carbon and aerosol size distribution to derive size resolved BC mass concentration: a method applied on long-term observations performed at Zeppelin station, Ny-Ålesund, Svalbard. Tellus B: Chemical and Physical Meteorology Volume 73, 2021 - Issue 1. <https://doi.org/10.1080/16000889.2021.1933775>
- Åkesson, H., Morlighem, M., O'Regan, M., & Jakobsson, M. 2021. Future projections of Petermann Glacier under ocean warming depend strongly on friction law. Journal of Geophysical Research: Earth Surface, 126, e2020JF005921. <https://doi.org/10.1029/2020JF005921>
- Zhang, Z., Fluet-Chouinard, E., Jensen, K., McDonald, K., Hugelius, G., Gumbrecht, T., Carroll, M., Prigent, C., Bartsch, A., and Poulter, B., 2021. Development of the global dataset of Wetland Area and Dynamics for Methane Modeling (WAD2M). Earth Syst. Sci. Data: 13, 2001–2023. <https://doi.org/10.5194/essd-13-2001-2021>

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

### Online seminar 19-23 July: The international Ocean, Atmosphere and Ice associations

The international Ocean, Atmosphere and Ice associations, IASPO, IAMAS and IACS respectively, are holding a free online seminar series, 19-23 July, in lieu of the usual in-person assembly. For details of the program, please refer to <https://cryosphericsscience.org/vaco-21/> »

Also, this year's IAPSO Prince Albert I medal has been awarded to Carl Wunsch for all his exceptional contributions to ocean science. He will give an online medal talk on Monday 19 July, at 12:00 UTC The title of the talk is ""Physical Oceanography 1970 and Onwards: Through Outstanding PhD Theses". More details at: <https://www.facebook.com/iapso.iugg.org/> »

Both events are free but requires per-registration.

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Save the date: Microclimate Ecology and Biogeography Conference 2022

- Hybrid format: in-person event, but online possible  
- 2.5 day conference (29-31 March) + preconference excursion (28 March).  
More information will be announced later! #MEB2022

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### Ledigt jobb på Stockholms universitet som Datakoordinator/Data Steward

Stockholms universitet söker en Datakoordinator/Data steward inom området naturvetenskap, med anställning vid universitetsbiblioteket. Sista ansökningsdag: 2021-06-30.

Den nya data stewarden kommer att arbeta med att utbilda och stödja forskare i deras arbete med forskningsdatahantering. Anställningen kan vara intressant för personer vid Bolincentret som, förutom vetenskaplig ämneskompetens och förståelse för forskningens villkor, har kunskaper inom t.ex. programmering, databaser och implementering av FAIR-principerna för tillgängliggörande av forskningsdata. Eftersom Bolincentrets databas samarbetar med universitetsbiblioteket om hantering av forskningsdata är det möjligt att den nya data stewarden kan komma att samarbeta med Bolincentrets databas.

Bolincentrets databas vill därför uppmuntra intresserade forskare inom centret att söka jobbet eller hjälpa till med att sprida information till andra lämpliga kandidater.

[Läs annonsen på Stockholms universitets webbplats »](#)

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### eScience course for current and prospective PhD students

The course "eScience Tools in Climate Science: Linking Observations with Modelling" will be held in November. Application deadline: 31st of August. There will be funding from the Bolin Centre for students to join the course.

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

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### Training course on Hyperspectral Remote Sensing in Svalbard

This autumn, Svalbard Integrated Arctic Earth Observing System (SIOS) offers a training course on how to effectively use hyperspectral remote sensing data acquired from satellites, from airborne campaigns and from the ground, and their associated tools and software in the context of research in Svalbard. The course is intended for scientists, master/Ph.D. students and technicians with no or little experience with hyperspectral remote sensing techniques. The training will be delivered by remote sensing experts from SIOS member institutions, international researchers, and experts from industry.

**Time:** 6 September - 10 September 2021

**Location:** Online (Zoom platform)

**Application deadline:** 30 June

[Read more on SIOS' website »](#)

## 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  
Foto: Martin Jakobsson, Maria Faticov

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