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Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI



Week 35, 2021

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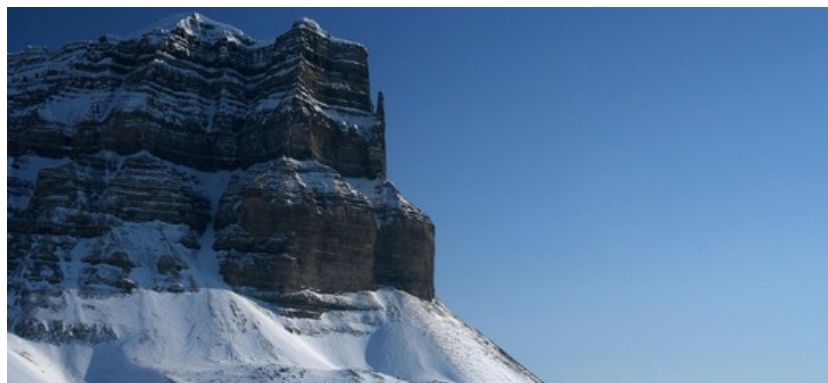
The Bolin Centre is a multi-disciplinary consortium of over 400 scientists in Sweden that conducts research and graduate education related to the Earth's climate.



Arctic Avenue Fall Call 2021

The Arctic Avenue fall call is open. The application deadline is October 20. You are welcome to submit your application!

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



RA6 Funding of small projects or specific activities

To those of you working with deep-time climate/biodiversity research, we invite short proposals for funding of small projects or specific activities, related to your research. The time scales involved could be from ice-age cycles of the Pleistocene to the Proterozoic (orbital to tectonic time scales).

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



Aerosols and climate modelling - meet new Bolin member Sara Blichner

In May this year, Sara Blichner started as a post-doctoral researcher at the Department of Environmental Science. She has contributed to the latest IPCC report and is now involved in EU's FORCeS project.

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



Losses of eelgrass beds give rise to large emissions of carbon and nutrients

Losses of important eelgrass meadows in western Sweden since the 1980s have led to considerable bottom erosion and the release of carbon and nitrogen; substances that contribute to increasing climate change and eutrophication. This is shown in a new study by researchers at the University of Gothenburg, Stockholm University, Åbo Akademi University and the University of Southern Denmark, published in the journal *Ecosphere*.

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

Forskare visar snabbare minskning av Arktis havsis i framtiden med ny metod

Arktis minskande havsis kan smälta bort tidigare än vad forskning hittills visat. Redan så snart som omkring år 2035 kan Arktis vara helt isfritt på sommaren vid höga klimatpåverkande utsläpp, före 2050 vid låga klimatpåverkande utsläpp. Det har två av SMHI:s forskare kommit fram till när de undersökt Arktis havsis utifrån de globala klimatmodeller som har varit bäst på att återspegla den observerade utvecklingen av Arktis havsis och havsvärmetransport till Arktis sedan 1979.

[Läs artikeln på SMHI:s webbplats »](#)



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.

- Harrison, S.P., Cramer, W., Franklin, O., Prentice, I.C., Wang, H., Brännström, Å., de Boer, H., Dieckmann, U., Joshi, J., Keenan, T.F., Lavergne, A., Manzoni, S., Mengoli, G., Morfopoulos, C., Peñuelas, J., Rebel, K.T., Ryu, Y., Smith, N.G., Stocker, B.D., and Wright, I. J., 2021. Eco-evolutionary optimality as a means to improve vegetation and land-surface models. *New Phytologist*: 231, 2125–2141. <https://doi.org/10.1111/nph.17558>
- Hoeber, S., Baum, C., Weih, M., Manzoni, S., and Fransson, P., 2021. Plant genotype and diversity as potential drivers of soil fungal community structure and diversity in willow biomass systems. *Frontiers in Fungal Biology*: 2, 671270. <https://doi.org/10.3389/ffunb.2021.671270>
- Hasby, F.A., Barbi, F., Manzoni, S., and Lindahl, B.D., 2021. Metatranscriptomic markers of fungal growth, respiration and carbon-use efficiency. *FEMS*

Microbiology Letters: 368 (15), fnab100. <https://doi.org/10.1093/femsle/fnab100>

- Brunet, J., Hedwall, P.O., Lindgren, J. and Cousins, S.A.O., 2021. Immigration credit of temperate forest herbs in fragmented landscapes – Implication for restoration of habitat connectivity. Journal of Applied Ecology. <https://doi.org/10.1111/1365-2664.13975>
- Bertell, E., Zhang, Q., Li, Q., Haywood, A.M., Tindall, J.C., Hunter, S.J., Zhang, Z., Li, X., Guo, C., Nisancioglu, K.H., Stepanek, C., Lohmann, G., Sohl, L. E., Chandler, M.A., Tan, N., Contoux, C., Ramstein, G., Baatsen, M.L.J., von der Heydt, A.S., Chandan, D., Peltier, W.R., Abe-Ouchi, A., Chan, W.-L., Kamae, Y., Williams, C.J.R., Lunt, D.J., Feng, R., Otto-Bliesner, B.L., and Brady, E.C., 2021. Mid-Pliocene West African Monsoon rainfall as simulated in the PlioMIP2 ensemble. Clim. Past: 17, 1777–1794. <https://doi.org/10.5194/cp-17-1777-2021>
- West, G., Alexanderson, H., Jakobsson, M., and O'Regan, M., 2021. Optically stimulated luminescence dating supports pre-Eemian age for glacial ice on the Lomonosov Ridge off the East Siberian continental shelf. Quaternary Science Reviews: 267. <https://doi.org/10.1016/j.quascirev.2021.107082>
- O'Regan, M., Cronin, T.M., Reilly, B., Alstrup, A.K. O., Gemery, L., Golub, A., Mayer, L.A., Morlighem, M., Moros, M., Munk, O.L., Nilsson, J., Pearce, C., Detlef, H., Stranne, C., Vermassen, F., West, G., and Jakobsson, M., 2021. The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. The Cryosphere: 15, 4073–4097. <https://tc.copernicus.org/articles/15/4073/2021>

Please send your newly published publication to bolin@su.se »

Bolin Centre researchers in media

The latest media-related posts published on our website:

- [Gunilla Svensson kommenterar skyfall och klimatförändringar i SVT Morgonstudion](#) »
- [Frida Bender berättar om moln i podden "Allt du vill veta"](#) »
- [Fredrik Charpentier Ljungqvist i SvD: "Därför har elden tagit fart i skogarna"](#) »

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Sep

Gordon Goodman Memorial Lecture

Professor Andy Haines speaks on "Climate change and health: developing evidence for action".

Gordon Goodman Memorial Lecture is organized by The Royal Swedish Academy of Sciences, Stockholm Environment Institute (SEI) and Stockholm University.

[Read more on SEI's website](#) »

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Oct

Multifunktionella våtmarker: realistiskt mål eller orealistisk dröm

Konferensen sammanför forskare, rådgivare och beslutsfattare till en diskussion om mål och medel kring restaurering och nyanläggning av våtmarker. Programmet har en bred ansats, med föredrag från såväl hydrologiska, biogeokemiska, ekologiska som samhällsvetenskapliga perspektiv.

Deadline för anmälan: 15 oktober

[Läs mer på Bolincentrets webbplats](#) »

18-19

Nov

Bolin Days 2021

Save the date!

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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- Laila: 072-444 35 25 laila.islamovic@su.se (Communications & 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.

Editor: Magnus Atterfors

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