



Stockholm
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 8, 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.



New study sheds light on the 'molecular dark matter' of polluted air

Airborne fine particulate matter (PM) is a major component of air pollution that impacts global climate and leads to millions of premature deaths globally every year. Yet its molecular composition remains largely unknown. Now, a new study by researchers at the Department of Environmental Science and colleagues from India and the Maldives have proposed molecular structures of over ten thousand organic compounds detected in PM originating from regions of the Indian subcontinent. The novel analytical and computational approaches employed in the study could help scientists to better understand global air pollution sources, climate impacts, and health effects.

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

Annual call for Research theme 2

The annual call 2022 for Research theme 2 – "Water, biogeochemistry and climate" of the Bolin Centre is open.

After merging the old RA3 and RA4 Units of the Bolin Centre, the objective of the new Research theme 2 - Water, biogeochemistry and climate, is the following:

The unit RT2 studies the coupled water and biogeochemical cycles and their interactions with climate and society over multiple spatial and temporal scales. Our ultimate goal is to define the adaptation necessary to address climate risks related to these cycles and guide policy towards their mitigation. For this task, we rely on field- and space-based observations, modelling, monitoring, and experiments on land, in the ocean, and the atmosphere.

Deadline for submission of proposal: 18 March

Read more about the [RT2 call on the Bolin Centre's website](#) »



Swedish Climate Symposium - Extended deadline for abstract submission

Welcome to 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: EXTENDED TO 25 FEBRUARY

Registration: no later than 15 March

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

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



Arctic Avenue Spring Call 2022 – deadline 28 February

- Total amount of funding: 40,000 €
- Must have two main applicants, one from Stockholm Uni and one from Uni of Helsinki
- Easy application process: a project description and a budget, max two A4 pages, no CVs.
- [Specific information about the call and application form](#) »
- Deadline February 28

Please send the application to the Arctic Avenue Steering Committee by e-mail to Annika Granebeck, annika.granebeck@su.se and Kaarina Weckström, kaarina.weckstrom@helsinki.fi. State *Application for Arctic Avenue funding* in the subject heading.

Postdoctoral Fellow in the project "Partnership for Anthropocene Solutions"

Available position: The candidate will work with a team of researchers from the Bolin Centre for Climate Research, the Stockholm Environment Institute, the Institute for Thematic Studies at Linköping University and the Swedish NGO Klimatriksdagen.

Application deadline: 25 February

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

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 for 2022.



Publications

- Hedemann, C., Mauritsen, T., Jungclaus, J., & Marotzke, J. 2022. Reconciling conflicting accounts of local radiative feedbacks in climate models, J. Climate. <https://doi.org/10.1175/JCLI-D-21-0513.1>
- Belyazid S, Akselsson C, Zanchi G. Water Limitation in Forest Soils Regulates the Increase in Weathering Rates under Climate Change. Forests. 2022; 13(2):310. <https://doi.org/10.3390/f13020310>
- Basu NB, Van Meter KJ, Byrnes DK, Van Cappellen P, Brouwer R, Jacobsen BH, Jarsjö J, Rudolph DL, Cunha MC, Nelson N, Bhattacharya R, Destouni G, Olsen SB., 2022. Managing Nitrogen Legacies to Accelerate Water Quality Improvement, Nature Geoscience. <https://www.nature.com/articles/s41561-021-00889-9>
- Sjöberg Y., Dessirier B., Zou L., Ghajarnia N., Panahi D. M., Diandian Xu, Jarsjö J., Jaramillo F., and Manzoni S., 2022. Scaling relations reveal global and regional differences in morphometry of reservoirs and natural lakes. Science of the Total Environment 822, 153510. <https://doi.org/10.1016/j.scitotenv.2022.153510>
- Scaini, A., Stritih, A., Brouillet, C., and Scaini, C., 2022. What locals want: citizen preferences and priorities for the Tagliamento River. Environmental Research Letters 17, 025008. <https://iopscience.iop.org/article/10.1088/1748-9326/ac4d50>

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

CALENDER

25

Feb

PhD Defence: Simon Larsson

Thesis: Ashes to ashes – Applications of tephrochronology in Scandinavia

Time: 25 February at 13h00 online via Zoom

Venue: Zoom

Read more and Zoomlink on [Dep't of Physical Geography's website](#) »

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.

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- Sara Gershagen: 076-698 41 02 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.

Editor: Magnus Atterfors

Photo: Martin Jakobsson, August Andersson

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