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University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI

Week 36, 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.



We evaluate the Newsletter!

We strive to make the Bolin Centre Newsletter as relevant as possible for our readers. What do you think of the newsletter? Do you have ideas for improvements? Do you miss anything? Please take a minute or two to answer the questions on [this link](#) »

Thanks in advance!  
Magnus & Laila



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 Bolin Centre 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.

- Ferreira, C.S.S., Kalantari, Z., Seifollahi-Aghmiuni, S., Ghajarnia, N., Rahmati, O., Solomun, M.K., 2021. Rainfall-runoff-erosion processes in urban areas. In "Precipitation: Earth surface responses and processes", Rodrigo-Comino, J. (ed.). Elsevier: chapter 21, 481–498 pp. <https://doi.org/10.1016/B978-0-12-822699-5.00018-5>
- Ferreira, C.S.S., Seifollahi-Aghmiuni, S., Destouni, G., Ghajarnia, N., Kalantari, Z., 2021. Soil degradation in the European Mediterranean region: Processes, status and consequences. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2021.150106>
- Evans, D.L., Janes-Bassett, V., Borrelli, P., Chenu, C., Ferreira, C.S.S., Griffiths, R.I., Kalantari, Z., Keesstra, S., Lal, R., Panagos, P., Robinson, D.A., Seifollahi-Aghmiuni, S., Smith, P., Steenhuis, T.S., Thomas, A., & Visser, S.M., 2021. Sustainable futures over the next decade are rooted in soil science. *European Journal of Soil Science*: 1–16. <https://doi.org/10.1111/ejss.13145>
- Lei, X., Chen, W., Panahi, M., Falah, F., Rahmati, O., Uuemaa, E., Kalantari, Z., Ferreira, C., Rezaie, F., Tiefenbacher, J.P., Lee, S., Bian, H., 2021. Urban flood modeling using deep-learning approaches in Seoul, South Korea. *Journal of Hydrology*: 601, 126684–126701. <https://doi.org/10.1016/j.jhydrol.2021.126684>
- Keesstra, S.D., Sannighrani, S., López-Vicente, M., Pulido, M., Novara, A., Visser, S.M., Kalantari, Z., 2021. The role of soils in regulation and provision of blue and green water. *Philosophical Transactions B*. 27; 376 (1834), 20200175. <https://doi.org/10.1098/rstb.2020.0175>
- Pouladi, P., Badiezadeh, S., Pouladi, M., Yousefi, P., Farahmand, H., Kalantari, Z., Yu, D.J., Sivapalan, M., 2021. Interconnected Governance and Social Barriers Impeding the Restoration Process of Lake Urmia. *Journal of Hydrology*, 126489. <https://doi.org/10.1016/j.jhydrol.2021.126489>
- Gohl, K., Uenzelmann-Neben, G., Gille-Petzoldt, J., Hillenbrand, C.D., Klages, J.P., Bohaty, S.M., Passchier, S., Frederichs, T., Wellner, J.S., Lamb, R., Leitchenkov, G.,... Reinardy, B.T.I., & IODP Expedition 379 Scientists, 2021. Evidence for a highly dynamic West Antarctic Ice Sheet during the Pliocene. *Geophysical Research Letters*, 48, e2021GL093103. <https://doi.org/10.1029/2021GL093103>
- Colombi, T., Chakrawal, A., and Herrmann, A. M., 2021. Carbon supply–consumption balance in plant roots: effects of carbon use efficiency and root anatomical plasticity. <https://doi.org/10.1111/nph.17598>
- Pranindita, A., Wang-Erlandsson, L., Fetzer, I. and Teuling, A.J., 2021. Moisture recycling and the potential role of forests as moisture source during European heatwaves. *Climate Dynamics*. <https://doi.org/10.1007/s00382-021-05921-7>

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

## Bolin Centre researchers in media

The latest media-related posts published on our website:

- [Johan Kuylenstierna i SR: "Fem saker du behöver veta från klimatrapporten" »](#)
- [M. Tjernström i DN: "Snabb uppvärmning av Arktis ökar risken för extremt vinterväder" »](#)

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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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### Baltic Breakfast:

Östersjöns miljöhistoria med fokus på skärgårdsströmmingen

Sep

**Tid:** 15 september 2021 kl 8:30-9:15.

**Medverkande:** Sverker Sörlin, professor i miljöhistoria, Kungliga Tekniska högskolan

Henrik Svedäng docent i fiskebiologi, Stockholms universitets Östersjöcentrum och Havsmiljöinstitutet

Läs mer på [su.se/ostersjocentrum/balticbreakfast](https://su.se/ostersjocentrum/balticbreakfast) »

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Sep

**Seminar: The recent IPCC report, extreme weather events and implications for society**

Co-organized by the national Strategic Research Areas BECC and MERGE, together with the Thematic Collaboration Initiative LU Land.

**Date & Time:** Thursday Sept 16 2021, at 13:00 – 15:00

**Registration deadline:** 15 september

The aim of this event is to discuss the results of the recent IPCC report and its implications for research and society in the light of this summers' extreme weather events. Meet and listen to the perspectives from researchers working in a variety of disciplines and subjects, and join the discussions on which changes are needed in different sectors (such as forestry, agriculture, urban planning and policy-making) and in research in order to reach the climate targets.

[Read more](#) »

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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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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, Annika Granebeck, Love Dalen

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