



Stockholm
University

Bolin Centre for Climate Research

A collaboration between Stockholm University, KTH and SMHI



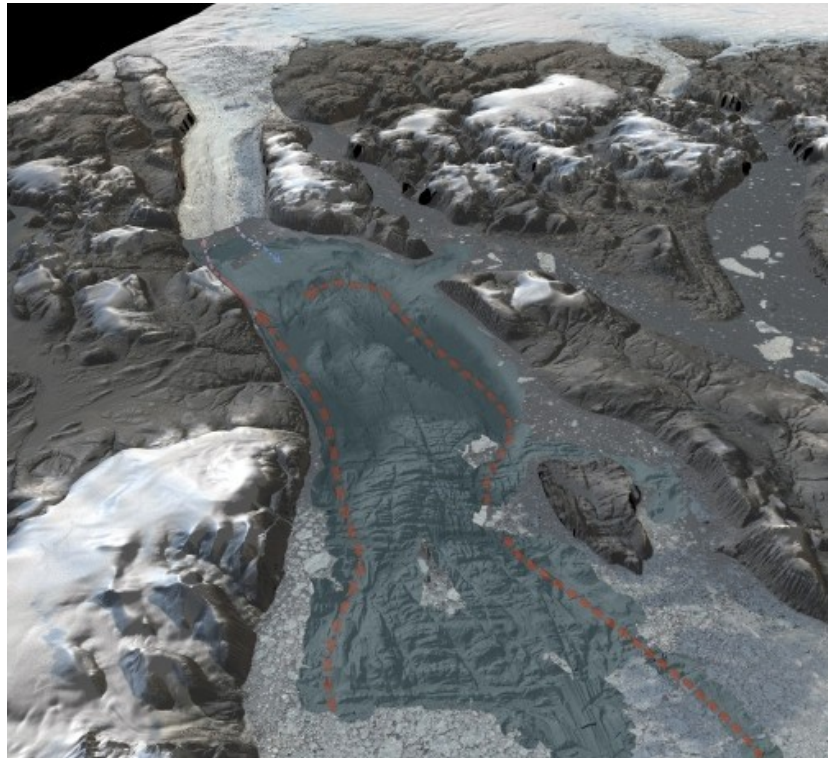
Week 46, 2020

[Click here to read the letter in your browser](#)

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.



Data from Uncharted Waters Provides Key Insights into Glacial Melting Processes



New bathymetric and oceanographic data collected by an international team of ocean scientists provide important insights into the processes that are controlling the rapid loss of the Greenland Ice Sheet over the last four decades. The ground-breaking data, published in the Nature Journal Communications Earth & Environment, will be contributed to The Nippon Foundation-GEBCO Seabed 2030 Project, which aims to have the definitive and complete map of the ocean seafloor by 2030.

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

Bolin Days – Welcome to register

Date: 25- 26 November at 11h00-19h00

Venue: The event platform Agorify and Zoom

[Full program»](#)

[Register for the Bolin Days 2020 now»](#)

The Bolin Days is our annual internal conference for and of our Bolin Centre members. During these days, new climate science results are presented and we meet each other to exchange ideas, share our experience and find new inspiration. We welcome you to cross-disciplinary sessions organized by our Research Area leaders. You have the opportunity to meet our External Advisory Group, there will be a virtual poster exhibition and as usual, a poster competition for PhD students.

Virtual setting

The Bolin Days this year will be virtual. Speakers and participants will be offered many opportunities to interact with each other, welcome to [find out how here»](#)

Call for posters

The Bolin Days 2020 will have its traditional poster exhibition, this year in a virtual format. Poster submission deadline is **November 17** at 23h59 and [instructions are found here»](#)



Publications

Recent Bolin Centre scientist 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.

- Tierney, J.E., Poulsen, C.J., Montañez, I.P., Bhattacharya, T., Feng, R., Ford, H.L., Hönlisch, B., Inglis, G.N., Petersen, S.V., Sahoo, N., Tabor, C.R., 2020. Past climates inform our future. *Science*: 6;370(6517). <https://science.sciencemag.org.ezp.sub.su.se/content/370/6517/eaay3701.abstract>
- Trodahl, M., Isachsen, P.E., Lilly, J.M., Nilsson, J., and Kristensen, N.M., 2020. The Regeneration of the Lofoten Vortex through Vertical Alignment *J. Phys. Oceanogr.*: 50 (9): 2689–2711. <https://doi.org/10.1175/JPO-D-20-0029.1>
- Steinthorsdóttir, M., Jardine, P. E., and Rember, W. C., 2020. Near-Future pCO₂ during the hot Mid Miocene Climatic Optimum. <https://doi.org/10.1029/2020PA003900>
- Varney, R.M., Chadburn, S.E., Friedlingstein, P., Burke, E.J., Koven, C.D., Hugelius, G. and Cox, P.M., 2020. A spatial emergent constraint on the sensitivity of soil carbon turnover to global warming. *Nature Communications*, 11(1), 5544. pp.1–8. <https://www.nature.com/articles/s41467-020-19208-8>
- Destouni G., Kalantari Z., Quegan S., Leibovici D., Lemmetyinen J., Ikonen J., 2020. Modeling Climate Sensitive Infectious Diseases in the Arctic, In: Nord D.C. (eds) *Nordic Perspectives on the Responsible Development of the Arctic: Pathways to Action*. Springer Polar Sciences, Springer, Cham, pp. 93–11. https://doi.org/10.1007/978-3-030-52324-4_5
- Haywood, A. M., Tindall, J. C., Dowsett, H. J., Dolan, A. M., Foley, K. M., Hunter, S. J., Hill, D. J., Chan, W.-L., Abe-Ouchi, A., Stepanek, C., Lohmann, G., Chandan, D., Peltier, W. R., Tan, N., Contoux, C., Ramstein, G., Li, X., Zhang, Z., Guo, C., Nisancioglu, K. H., Zhang, Q., Li, Q., Kamae, Y., Chandler, M. A., Sohl, L. E., Otto-Bliesner, B. L., Feng, R., Brady, E. C., von der Heydt, A. S., Baatsen, M. L. J., and Lunt, D. J., 2020. The Pliocene Model Intercomparison Project Phase 2: large-scale climate features and climate sensitivity. *Clim. Past*: 16, 2095–2123, <https://doi.org/10.5194/cp-16-2095-2020>
- Kleman, J., Hättestrand, M., Borgström, I., Preusser, F., Fabel, D., 2020. The Idre marginal moraine – An anchorpoint for Middle and Late Weichselian ice sheet chronology. *Quaternary Science Advances*, Volume 2. <https://doi.org/10.1016/j.qsa.2020.100010>
- Ao, H., Dupont-Nivet, G., Rohling, E. J., Zhang, P., Ladant, J.-B., Roberts, A. P., Licht, A., Liu, Q., Liu, Z., Dekkers, M. J., Coxall, H. K., Jin, Z., Huang, C., Xiao, G., Poulsen, C. J., Barbolini, N., Meijer, N., Sun, Q., Qiang, X., Yao, J., and An, Z., 2020. Orbital climate variability on the northeastern Tibetan Plateau across the Eocene–Oligocene transition. *Nature Communications*: v. 11, no. 1, p. 5249. <https://www.nature.com/articles/s41467-020-18824-8>

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

Past is Key to Predicting Future Climate, Scientists Say

In a review paper published in the journal *Science*, a group of climate experts make the case for including paleoclimate data in the development of climate models. Such models are used globally to assess the impacts of human-caused greenhouse gas emissions, predict scenarios for future climate and propose strategies for mitigation.

[Read the article on Department of Meteorology's website»](#)



What's new in the Baltic Sea? Get some marine glimpses here!

Read three newly published papers with an easy to read summary on [Department of Ecology, Environment and Plant Sciences' website](#)»

Gia Destouni new Editor in Chief

The American Geophysical Union (AGU) has selected Gia Destouni as new Editor in Chief for Water Resources Research, [AGU's flagship journal](#) for hydrology and water resources science.

Workshop: Climate Science2Policy

The European Commission, through EASME, is organizing a Climate Science2Policy (CS2P) workshop that will take place the **17 to 18 November** 2020. The main goal of the workshop is to "bring together Earth System Science H2020 projects and policy makers to identify and discuss key policy-relevant messages and research requirements to achieve the climate targets of the European Green Deal and other climate change related policies and programs."

The Rosaby Centre is part of 5 (CRESCENDO, COMFORT, EUCP, PRIMAVERA and FORCeS) of the 15 Earth System Science H2020 projects participating; Stockholm University is also in many of the projects. From the Rosaby Centre, Erik Kjellström will present the FORCeS Policy Brief on behalf of Ilona Ripinen (Stockholm University) and Danijel Belusic will talk about high resolution convection permitting simulations.

The registration deadline is the 15th of November 2020.

[More on the background, objectives and program of the workshop, as well as registration](#)»

BOLIN CENTRE EVENTS

25-26
November

Bolin Days - Registration is open

The Bolin Days will take place in a COVID-19- adjusted format. If you are interested in Climate and the Earth Sciences, you are welcome to join in!

[Read more on the Bolin website](#)»

1
December

Bolin Centre Seminar Series | Research Area 3

Time & venue: Dec 1st at 14h00, Zoom

Titel: Uncertain water resources in a changing world

Speaker: Peter Greve, Research Scholar – Water Program IIASA – International Institute for Applied Systems Analysis

[Read more on the Bolin website](#)»

10
December

Bolin Centre Seminar Series | Research Area 7

Time & venue: Dec 10 at 13h00, Zoom

Titel: Reversing tropical deforestation

Speaker: Eric Lambin, geographer and environmental scientist at University of Louvain and Stanford University.

[Read more on the Bolin website](#)»

OTHER EVENTS AND INFORMATION

18
November

Digital book release: Arktiska spår: Natur och kultur i rörelse

Time: 18 November, 16h00

Welcome to a digital and live-streamed book release of "Arktiska spår: Natur och kultur i rörelse", Arctic traces – nature and culture in motion. (Event in Swedish).

[Read more on the Bolin website»](#)

10-26
November

Conference EcoChange 2020

Time & venue: 10-26 November

The strategic research programme EcoChange focuses on the effects of climate change on marine ecosystems, particularly in the Baltic Sea. More information [on conference 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.

- Magnus: 076-695 70 78, magnus.atterfors@su.se (Communications)
- Annika: 072-148 91 49, annika.granebeck@su.se (Coordination)
- Eva: 076-650 03 08, eva.gylfe@su.se (Supports the office part-time during the autumn).

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

Foto: Martin Jakobsson, Maria Asplund

Stay updated

Find news and upcoming events at bolin.su.se and follow us on [Twitter](#), [Facebook](#) and [YouTube](#).

