

Week 21, 2019

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The Bolin Centre is a multi-disciplinary consortium of over 350 scientists in Sweden that conducts research and graduate education related to the Earth's climate.



In Swedish | Välbesökt Klimatfestival



Över 2000 besökare kom till Klimatfestivalen förra veckan! På bilden ser du elever som rest hela vägen från Rättvik för att delta. Under tre dagar var Geovetenskapens hus fullt av besökare som lärde sig mer om klimat och klimatförändringar och firade klimatforskningen tillsammans med oss. Festivalen erbjöd populärvetenskapliga föreläsningar, rollspel med klimatförhandlingar, Minecraft-spel med framtidsscenarioer, klimatquiz, klimatvandringar och mycket mer. Media var även på plats och [HÄR](#) kan du lyssna på ett inslag i Vetenskapsradions veckomagasin om festivalen. Stort tack till alla er som arbetat med både förberedelser och genomförande för att skapa en lyckad festival!

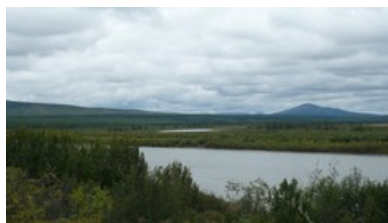


Importance of the Nordic Seas

[A new paper](#) in Geophysical Research Letters by Léon Chafik (Bolin Centre researcher at the Department of Meteorology) and Thomas Rossby, shows the importance of the Nordic Seas in the state of the meridional overturning circulation and hence to climate.

Clues of carbon release

Arctic rivers may hold vital clues to the accelerated release of carbon stored in Arctic permafrost, shows [a new study](#) by Bolin Centre researchers from the Department of Environmental Science and Analytical Chemistry, published in the Proceedings of the National Academy of Sciences of the USA.



Do you also have interesting research that you would like to share? Please contact bolin@su.se

New datasets in the Bolin Centre Database

- Marine sediment core data from the Lomonosov Ridge off Greenland, Arctic Ocean. Matt O'Regan, <https://bolin.su.se/data/oregan-2019>
- Bathymetry of Lake Tarfala, northern Sweden. Nina Kirchner, Jakob Kutteneuler, Riko Noormets, Elias Strandell Erstorp, <https://bolin.su.se/data/kirchner-2019>
- Content of carbon isotopes (^{13}C and ^{14}C) in organic carbon pools in terrestrial Siberia. Birgit Wild, Örjan Gustafsson, <https://bolin.su.se/data/wild-2019>
- Measured river data and estimated rating curve uncertainties for Nybro and Rönån hydrological stations in central Sweden. Valentin Mansanarez, Ida K. Westerberg, Norris Lam, Steve W. Lyon, <https://bolin.su.se/data/masanarez-2019>

OTHER SEMINARS AND EVENTS

28

MAJ

Special seminar series: Bjorn Stevens, Dir. for the Atmosphere in the Earth System at MPI, Hamburg

Climate scientists have become so used to explaining how their models are based on fundamental laws and physical principles, we sometimes ourselves forget the crude approximations and seat-of-the-pants reasoning that underpins many of their important aspects. Advances in computing are however making it possible to revisit the climate modelling enterprise, to create models whose physical foundation is much stronger. In doing so we hope to mitigate against long standing and intractable deficiencies in present day climate models. In this talk I will try to explain why next generation climate models are much more than higher-resolution versions of existing models, what we hope to learn about the climate system from their capabilities, and why taking these steps is so important.

Time & place: May 28, 11h15-12h15, C609 Rossbysalen

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 in coming Weekly News, you are welcome to send these to bolin@su.se.

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