



## Welcome to the Bolin Days

The Bolin Centre for Climate Research warmly invites you to the Bolin Days with interesting scientific discussions and a friendly gathering!

There will be interesting talks and posters by members of the Bolin Centre, discussions over fika, a PhD poster competition with refreshments and give-aways and a nice relaxed dinner with a Ceilidh dance. There are excellent opportunities to interact with the Bolin Centre External Science Advisory Group during the Bolin Days. The Bolin Centre are also hosting a seminar by the internationally renowned researcher in climate and the Earth system Will Steffen the day before the Bolin Days.

### Wednesday, November 18

De Geer room, De Geer foyer, Y20 and Y23, Geoscience building, Stockholm University

09:00–09:15	<b>Welcome to the Bolin Days</b>	Alasdair Skelton & Leonard Barrie
09:15–10:30	<b>RA 3: Hydrosphere, Cryosphere and Climate</b> <i>Introduction to RA3</i> <i>On the use of photographs in cryospheric research</i> <i>Risk Identification Methods to reduce the vulnerability of transport infrastructure in Sweden to extreme weather events</i> <i>Climate driven change in butterfly first flight</i> <i>Wetland development to reduce climate risks in Africa</i>	Chair: Magnus Mörtz Margareta Hansson Per Holmlund  Zahra Kalantari Carmen Prieto Steve Lyon
10:30–11:00	<b>Fika &amp; poster preview</b>	
11:00–12:15	<b>RA 1: Oceans-atmosphere dynamics and climate</b> <i>Introduction to RA1</i> <i>Inter-hemispheric coupling in the middle atmosphere</i> <i>Global atmospheric circulation and extremes</i> <i>Tuning and validation of climate models and earth system models</i> <i>Climate response to mid-Holocene Green Sahara in EC-Earth simulations</i> <i>Climate change viewed in the hydrothermohaline framework</i>	Chair: Johan Nilsson Johan Nilsson Bodil Karlsson Nili Harnik Ralf Döscher Qiong Zhang Kristofer Döös
12:15–13:15	<b>Lunch with sandwiches</b>	
13:15–14:30	<b>RA2: Clouds, aerosols, turbulence and climate</b> <i>Introduction to RA2</i> <i>Cloud and aerosol characterization during CAESAR 2014</i> <i>Observation and characterization of thin clouds in the tropical middle troposphere</i> <i>Quantum mechanics based new particle formation in large scale modeling</i> <i>Monsoonal clouds over the Indian subcontinent: importance in the climate system and current space borne observation capabilities</i>	Chairs: Ilona Riipinen & Annica Ekman Ilona Riipinen & Annica Ekman Paul Zieger Quentin Bourgeois Tinja Olenius  Abhay Devasthale
14:30–15:30	<b>Poster presentations</b>	
15:30–16:30	<b>Poster competition, refreshments &amp; Bolin Centre give-aways</b>	
16:30–18:30	<b>Screening and discussion of the film »This Changes Everything«</b> Film based on a book by Naomi Klein. See trailer on Bolin Centre web site.	



# Bolin Days 2015

## Thursday, November 19

De Geer room, De Geer foyer, Y20, Y23 and the Geopub at U1, Geoscience building, Stockholm University

09:00–10:15	<b>RA 6: Orbital to tectonic climate variability</b> <i>Introduction to RA6</i> <i>Arsenic stress after the Proterozoic glaciations</i> <i>The role of CO<sub>2</sub> in Eocene-Oligocene climate change - insights from a terrestrial plant record</i>  <i>Timing of past glaciations across Central Asia</i> <i>The leapfrogging behavior of marine based ice sheets - new insights from the Petermann Expedition 2015 with icebreaker Oden to northeastern Greenland</i>	Chair: Helen Coxall Nina Kirchner Ernest Chi Fru Margret Steinthorsdottir Robin Blomdin Martin Jakobsson
10:15–10:45	<b>Fika</b>	
10:45–12:00	<b>RA 4: Biogeochemical cycles and climate</b> <i>Introduction to RA4</i> <i>Cold, wet and old: how we count the huge stocks of carbon stored in northern soils</i> <i>Carbon stock and carbon turnover of boreal and temperate forests</i> <i>From ice-covered plains to rusty rivers: isotopic insights from the Lena River spring flood</i> <i>Where does all the carbon go? Microbial studies on the Siberian shelf and slope</i>	Chair: Christian Beer Volker Brüchert Gustaf Hugelius Martin Thurner Catherine Hirst Volker Brüchert
12:00–13:00	<b>Lunch with sandwiches</b>	
13:00–14:15	<b>RA 5: Historical to millennial climate variability</b> <i>Introduction to RA5</i> <i>Estimating Arctic amplification using ratios</i> <i>Major cooling intersecting peak Eemian interglacial warmth in northern Europe</i> <i>North Atlantic hydro-climate response to Fennoscandian freshwater forcing at the onset of the Younger Dryas</i> <i>On the enigmatic similarity in Greenland d18O between the Oldest and Younger Dryas</i> <i>Warmer summers during the Younger Dryas cold period</i>	Chair: Malin Kylander Malin Kylander Alistair Hind Karin Helmens Francesco Muschitiello Francesco S.F. Pausta Frederik Schenk
14:15–14:45	<b>Fika</b>	
14:45–16:45	<b>Climate Research School session</b> <i>Introduction to the Climate Research School</i> <i>The PhD conference on Askö Laboratory</i> <i>Application of laser scanning data for improving streamflow monitoring</i> <i>Sahelian-Sudan moisture sources from Lagrangian and Eulerian models</i> <i>In situ toxicity testing using a nerite gastropod</i> <i>Are methane emissions from northern lakes hidden in wetland estimates?</i>	Chair: Björn Gunnarson Björn Gunnarson Marin Stanev Norris Lam Abubakr Salih Maria Bighiu Martin Wik
16:45	<b>Closing remarks</b>	Leonard Barrie & Alasdair Skelton
17:00	<b>Refreshments</b>	
17:30	<b>Dinner, presentation of poster competition winner and pub with live music</b> At U1 in the Geoscience building, Stockholm University	