

## International Summer School on Climate of the Baltic Sea Region



Askö Laboratory, Trosa, Sweden, 28 August – 4 September 2017

co-organized by Leibniz Institute for Baltic Sea Research  
Warnemünde and University of Rostock under the umbrella of  
Baltic Earth ([www.baltic.earth](http://www.baltic.earth))

**Baltic Earth**

Earth System Science for the Baltic Sea Region

**Course agenda** (arrival on Askö 11:00 on Monday, departure 10:00 on Monday):

Day	Monday 28/8	Tuesday 29/8	Wednesday 30/8	Thursday 31/8	Friday 1/9	Saturday 2/9	Sunday 3/9
General topic	Course introduction, student presentations	Fundamental processes in the climate system, large-scale circulation	Climate modeling, dynamical downscaling	Regional oceanography, land-sea interaction, eutrophication, carbon cycle	History of the Baltic Sea, Past climate variability of the Baltic Sea Region	Future projections, hypoxia, science communication	Examination, students' group presentation, resumé
Speaker/title Morning session 09:00-10:30 (2 x 45 min)	Travel to Askö	Markus Meier: Large-scale ocean circulation	Piia Post: Climate state and global circulation patterns in the atmosphere, part II	Markus Meier: Physical Oceanography of the Baltic Sea and other regional seas, part I	Markus Meier: History of the Baltic Sea	Markus Meier: Future projections for the Baltic Sea Region	Examination (45 minutes)
Break 10:30-11:00							
11:00-12:30 (2 x 45 min)	Markus Meier: Course introduction and fundamental processes of the climate system	Piia Post: Climate state and global circulation patterns in the atmosphere, part I	Markus Meier: Climate Modeling – The global and regional perspective, part I	Markus Meier: Physical Oceanography of the Baltic Sea and other regional seas, part II	Markus Meier: Past changes in extremes	Dan Conley: Hypoxia in the Baltic Sea	Students' group work
Lunch 12:30-14:00							
Speaker/title Afternoon session: 14:00-15:30 (2 x 45 min)	Short student presentations of their thesis work (5 min. each)	Tutorials and exercises: Statistical analysis of time series I (Madline Kniebusch and Markus Meier)	Tutorials and exercises (Piia Post and Markus Meier)	Excursion (if possible)	Tutorials and exercises: "Run your own global climate model" (Markus Meier)	Tutorials and exercises: discussion on trusting climate models and model democracy (Markus Meier)	Students' group presentations, resumé of the school
Break 15:30-16:00							
16:00-17:30 (2 x 45 min)	Short student presentations of their thesis work (5 min. each)	Tutorials and exercises: Statistical analysis of time series II (Madline Kniebusch and Markus Meier)	Markus Meier: Climate Modeling – The global and regional perspective, part II	Christoph Humborg: Processes in the Baltic Sea catchment area and eutrophication	Markus Meier: Modeling past climate variability of the Baltic Sea	Dan Conley: Science communication	Students' group presentations, resumé of the school
Dinner 17:30-19:30							
Evening session 19:30-21:00 (2 x 45 min)	Social activities (ice breaker)	Marcus Reckermann: Baltic Earth – regional Earth system science	Students' group work	Christoph Humborg: Terrestrial and marine carbon cycle	Students' group work	Marcus Reckermann: presentation technique	Social activities (BBQ)