Bolin Centre for Climate Research | Stockholm University

Workshop on the Modelling and Observations of Land and Sea Ice

Schedule

9:00	Arrival	
9:10	Welcome	
9:15	Josefin Ahlkrona	Numerical methods for ice-sheet modelling
9:30	Felicity Holmes	Modelling Ryder Glacier in North Greenland: what are the controls on its future sea level rise contribution?
9:45	Frederik Schenk	Local vs. large-scale climate constraints driving the demise of the Fennoscandian Ice Sheet
10:00	Abhay Prakash	Future runoff increase may destabilize Petermann ice shelf
10:15	Thomas Frank	Distributed global glacier thickness modelling
10:30	Coffee break	
11:00	Dorothée Vallot	Ice in the southern ocean: Challenges in Global Climate Models
11:15	Pasha Karami	Climate variability and future projections in the North Atlantic-Arctic region: Insights from EC-Earth model simulations
11:30	Torben Koenigk	Future sea ice in climate model projections
11:45	Per Pemberton	Impact of eddy parametrization on Arctic Atlantic Water circulation in the eddy-permitting grey zone
12:00	Lunch	

13:00	Carolin Mehlmann	Simulating linear kinematic features in sea-ice
13:15	Saskia Kahl	A model for ice mélange based on particle and continuum mechanics
13:30	Outi Tammisola	Connections between non-Newtonian fluid mechanics and modelling of ice
13:45	André Löfgren	Numerical stability in grounded ice-sheet simulations: Insights from a linear Stokes eigenvalue analysis
14:00	Lukas Lundgren	Modeling subglacial ice ocean interaction using a conservative high-order finite element method
14:15	Clara Henry	Numerical stabilisation of grounding-line problems in ice-sheet modelling
14:30	Coffee break	
15:00	Johan Nilsson	Glacier-ocean interactions in northern Greenland
15:15	Bo Sun	Glacier changes over High Mountain Asia with a focus of China
15:30	Zhuo Wang	Reconstruct age and temperature of the ice sheet in the Dome Fuji region, Antarctica
15:45	Veijo Pohjola	Wavelet analysis of the water pressure within the Lomonosovfonna firn aquifer
16:00	Ward von Pelt	Modelling the past, present and future of Svalbard glaciers
16:15	Michael Tjernström	The ARTofMELT expedition: Some early impressions
16:30	Closing words	
16:35	Film viewing	The Arctic expedition ARTofMELT