



Vetenskapsrådet



*The Swedish Research Council for Environment,
Agricultural Sciences and Spatial Planning*

RESEARCH CONFERENCES

ESF-VR-FORMAS Conferences on
Global Change Research

Global Environmental Change: The Role of the Arctic

Nynäshamn • Sweden
13-17 October 2007

Chair: **Jörn Thiede**, Alfred Wegener Institute, DE

Organising Committee: **Jonas Björk**, Swedish
Research Council,
Stockholm, SE • **Dorthe Dahl Jensen**, Niels Bohr
Institute, Copenhagen, DK • **Paul Egerton**, European
Science Foundation, Strasbourg, FR

• **Volker Rachold**, International Arctic Science Committee
(IASC), SE
• **Sverker Sörlin**, Royal Institute of Technology,
Stockholm, SE

www.esf.org/conferences/07240



Photo by Hans Oerter, AWI

Final Programme

Saturday, 13 October

Late afternoon / early evening	Registration at the ESF Registration desk
19.30	Welcome Drink
20.00	Dinner

Sunday, 14 October

08.45-09.00	Conference Opening
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Session 1: The Contemporary Arctic

Chair: **Volker Rachold**, International Arctic Science Committee (IASC), SE

09.00-09.25	Michael Tjernström Stockholm University, SE <i>What (little?) do we know about the Arctic atmosphere?</i>
09.25-09.50	Peter Schlosser Columbia University, US <i>The Arctic Ocean: Recent Changes, Global Connections, and Needs for Long-Term Observing Systems and Predictions</i>
09.50-10.15	Leif Anderson Göteborg University, SE <i>The Oceanic Carbon Cycle</i>
10.15-10.40	Coffee break
10.40-11.05	Peter Lemke Alfred Wegener Institut für Polar und Meeresforschung, DE <i>Sea Ice Variability</i>
11.05-11.30	Jon Ove Hagen University of Oslo, NO <i>Recent Changes in the Mass Balance of the Austfonna Ice Cap, Svalbard</i>
11.30-11.55	Pavel Groisman National Climatic Data Center, US <i>Climatology in the High Latitudes</i>
11.55-12.20	Hans-Wolfgang Hubberten Alfred-Wegener-Institut für Polar- und Meeresforschung, DE <i>Arctic warming and the role of degrading permafrost</i>
12.20-13.30	Lunch
13.30-13.55	Terry Callaghan Royal Swedish Academy of Sciences, SE <i>Current and projected impacts of climate change on arctic terrestrial ecosystems</i>
13.55-14.20	Birger Poppel Ilisimatusarfik University of Greenland, GL

	<i>Arctic living conditions and ways of life under rapid change</i>
14.20-14.45	Joan Nymand Larsen University of Akureyri, IS <i>Northern economies in a time of change</i>
14.45-15.10	Annika Nilsson Stockholm Environment Institute, SE <i>A changing Arctic climate: More than just weather</i> (short talk)
15.10-16.00	John Walsh University of Alaska, US <i>Recent Arctic change: Natural and anthropogenically-driven components</i> (keynote)
16.00-16.30	Coffee break
16.30-19.00	Poster session
19.30	Dinner

Monday, 15 October

Session 2: The Arctic in the Past

Chair: Jörn Thiede, Alfred-Wegener-Institut für Polar- und Meeresforschung, DE

08.30-08.50	Jörn Thiede Alfred-Wegener-Institut für Polar- und Meeresforschung, DE <i>Early Arctic Ocean Extreme Paleoenvironments (Mesozoic and Cenozoic)</i>
08.50-09.10	Martin Jacobsson Stockholm University, SE <i>Glacial/Interglacial Arctic Ocean Paleoenvironments</i>
09.10-09.30	Dennis Darby Old Dominion University, US <i>Holocene Arctic Ocean Paleoenvironments</i>
09.30-09.50	Andrei Sher Russian Academy of Sciences, RU <i>The role of the (Siberian) Arctic in the evolution of the continental environment of Eurasia in the Pleistocene</i>
09.50-10.10	Sven Funder University of Copenhagen, DK <i>An ice-free Arctic Ocean in the Early Holocene</i>
10.10-10.30	John-Inge Svendsen Bergen University, NO <i>Ice Age humans in the Russian Arctic</i>
10.30-11.00	Coffee break
11.00-11.20	Dorte Dahl Jensen University of Copenhagen, DK <i>Paleo records from ice sheets and glaciers</i>
11.20-11.40	Lester Lembke-Jene Alfred-Wegener-Institut für Polar- und Meeresforschung, DE <i>The challenge of a new infrastructure</i>
11.40-12.00	Jens Christensen

	Danish Meteorological Institute, DK <i>The freshwater budget of the Nordic Seas: The FreshNor Project</i> (short talk)
12.00-12.20	Konstantin Kunshenko Russian State Hydrometeorological University, RU <i>Density convection in sea water</i> (short talk)
12.20-12.40	Nils Noergaard-Pedersen GEUS, DK <i>New records of last interglacial-holocene conditions from the Northern Greenland Margin</i> (short talk)
13.00-14.00	Lunch
14.00-18.00	Excursion or free afternoon
19.00-20.00	Dinner
20.00-22.00	Poster Session

Tuesday, 16 October

Session 3: The Arctic in the Earth System

Chair: **Dorthe Dahl Jensen**, University of Copenhagen, DK

08.30-09.00	Jaqueline Flückiger ETH Zürich, CH <i>Abrupt climate changes and the thermohaline circulation</i>
09.00-09.30	Shawn Marshall University of Calgary, CA <i>Ice Sheets and Cryosphere</i>
09.30-10.00	Katherine Richardson University of Copenhagen, DK <i>Global climate change and the carbon cycle in the ocean</i>
10.00-10.30	Coffee break
10.30-11.00	Henrik Svensmark Danish Space Center, DK <i>Cosmic Ray influence on cloud formation</i>
11.00-11.30	Martin Truffer University of Alaska, US <i>Ice streams on the Greenland Ice Sheet as fast climate indicators</i>
11.30-12.00	Kristof Sturm Bergen University, NO <i>The role of the carbon cycle in the Earth System</i>
12.00-12.20	Gudfinna Adalgeirsdottir Danish Meteorological Institute, DK <i>The response of Greenland Ice Sheet model to a new geothermal heat flux estimate and output fields of a Regional Climate Model</i> (short talk)
12.30-13.30	Lunch

Session 4: Future Climate Changes – Consequences for the

Arctic

Chairs: Paul Egerton, European Science Foundation, FR and Sverker Sörlin, Royal Institute of Technology, SE

- 13.30-14.15 **Kirsten Hastrup**
University of Copenhagen, DK
Topographical mementos: Re-orientations of peoples and cultures under climate change, 20th and 21st centuries
- 14.15-15.00 **Hanne Petersen**
University of Copenhagen, DK
Legal implications of climate change: Rights of resources, property, culture
- 15.00-15.45 **Paul Egerton**
European Science Foundation, FR
Polar Programs of the Future: Envisioning New Generations of Integrated Research
- 15.45-16.15 Coffee break
- 16.15-16.45 **Sverker Sörlin**
Royal Institute of Technology, SE
The Science Politics of Climate: What can we learn from history?
- 16.45-17.15 **Jessica Shadian**
Barents Institute, NO
Shifting the Legal Boundaries of Sovereignty: The Politics of global warming science
- 17.15-19.00 Forward Look Plenary Discussion
- 19.30 Get-together & Conference Dinner

Wednesday, 17 October

8:00 Breakfast & Departure

Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed on the programme.

All other abstracts are accepted as posters. The list of accepted posters is available from www.esf.org/conferences/07240

Posters can be fixed with drawing pins onto double-sided poster panels. Recommended poster size is 200 cm high x 120 cm wide. Use letters and drawings that can be read from approximately 100 cm distance.