



Polar Science Centre

Et tværfagligt forskningscenter
ved det Natur- og Biovidenskabelige Fakultet

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Københavns Universitets arktiske ekspertiser

Antropologi
Biologi
Biomedicin
Eskimologi
Geofysik
Geogenetik
Geografi
Geologi
Glaciologi
Koloniseringshistorie
Kultur
Mikrobiologi
Monitering
Naturforvaltning
Social medicin
Sprog
Økologi

De naturvidenskabelige kompetencer
inden for bio-geo-fys-fagene
er repræsenteret i Polar Science Centre



Om Polar Science Centre

- Et center uden mure startet på det daværende Naturvidenskabelige Fakultet – nu Natur- og Biovidenskabelige Fakultet
- Der er udpeget en center leder og etableret en en styregruppe og et advisory board
- Centeret har ca. 40 direkte tilknyttede forskere samt postdocs, ph.d.-studerende og kandidatstuderende

Formålet

- at samle og synliggøre den polare (arktiske) forskning inden for de naturvidenskabelige miljøer på KU
- at styrke uddannelsen af den næste generation af polarforskere

Ambitionerne

- at etablere tværfaglige projekter med relevante partnere i og uden for centret
- at bidrage til styrkelse af den polare forskningsprofil på et nationalt plan



5 institutter er repræsenteret

Statens Naturhistoriske Museum

Niels Bohr Instituttet

”Institut for Geografi og Geologi”

Biologisk Institut

Institut for Plante- og Miljøvidenskab (fra 2012)



Forskergrupper i centeret

Center for Is og Klima
 Center for Geogenetik
 CENPerm
 Bioteknologi
 Geologi
 Ferskvandsøkologi
 Akvatisk mikrobiologi
 Biogeokemi

Økofysiologi
 Kulstofomsætning
 Planteøkologi
 Meiofauna
 Fiske fysiologi
 Marine plankton
 Insekter
 Lichener

Forskerne er medansvarlige i de omfattende geo- og biobasismoniteringsprogrammer ved Nuuk og Zackenberg, er involveret i flere store EU-projekter (PAGE21 og INTERACT), Nordic Centre of Excellence samt projekter finansieret af bla. det Strategiske Forskningsråd og Forskningsrådet for Natur og Univers foruden private fonde.



Ressourcer

Forskningsprogrammer med grundvidenskabelige og anvendte udgangspunkter

Mange uddannelsestilbud inden for naturvidenskab

Feltstationer

Arktisk Station – Vestgrønland

Sermilik Station - Østgrønland

Forskningsbase

KISS - Vestgrønland (Is & Klima)

Forskningsskib

Porsild v. Arktisk Station

Medejerskab til monitoringsprogrammer i relation til klimaforandringer





Polar Science Centre
Faculty of Science

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Polar Research Day 2012

This year, the annual Polar Research Day, arranged by the Danish Agency for Science Technology and Innovation, is hosted by Aarhus University on September 24th. The focus is on the consequences of raw material extraction in the Arctic. In connection with this arrangement, representatives of AMAP and Conservation of Arctic Flora and Fauna are hosting a meeting on September 25th for researchers, administrators, government officials and planners. Activities in the management of the Arctic Council and the relation to the research and initiatives of the Commonwealth of the Realm. For further information and submission forms, please refer to the websites:
Polar Research Day
Researchers/Administrators meeting



New addition to PSC

The Aquatic Microbiology and Biogeochemistry group led by marine biologist Michael Kühl, Department of Biology, has recently increased their activities in the Arctic, and has therefore decided to join PSC. The group develops and applies advanced microsensor and bioimaging methods to explore the micro-environmental ecology, biogeochemistry and photobiology of Arctic microbial communities – both in the laboratory and in-situ. Read more about the group here.



PhD workshop

In the fall, Polar Science Centre will be hosting a workshop for those PhDs at the Faculty of Science, whose research has a polar focus. The aim is to support interdisciplinary cooperation and networking between the different scientific disciplines at the Faculty, on the PhD level. Read more and register [here](#).

INVITATION TO PHD WORKSHOP
in Polar Science Centre



WHAT IS POLAR SCIENCE CENTRE (PSC)?
The Polar Science Centre is an interdisciplinary centre for polar science at the Faculty of Science, University of Copenhagen, established in 2008. The centre aims to coordinate and promote research in the Arctic and Antarctic regions.

WHO ARE WE INVITED?
We invite PhD students in the Faculty of Science whose research has a polar focus. The workshop is intended for those who are currently working on their PhD or who have recently completed it.

WHAT IS THE AIMS?
The aim of the workshop is to provide a platform for PhD students to present their work, discuss their research, and establish a network of colleagues in the field.

HOW TO REGISTER?
Registration is free of charge. To register, please contact the workshop organizers at pscl@science.ku.dk.



Recent publications

M.O. Hansen, Buchardt, B., Kühl, M., and Elberling, B. The fate of the submarine iceite tufa columns in southwest Greenland under changing climate conditions. *Journal of Sedimentary Research* 81, 553 (2011).

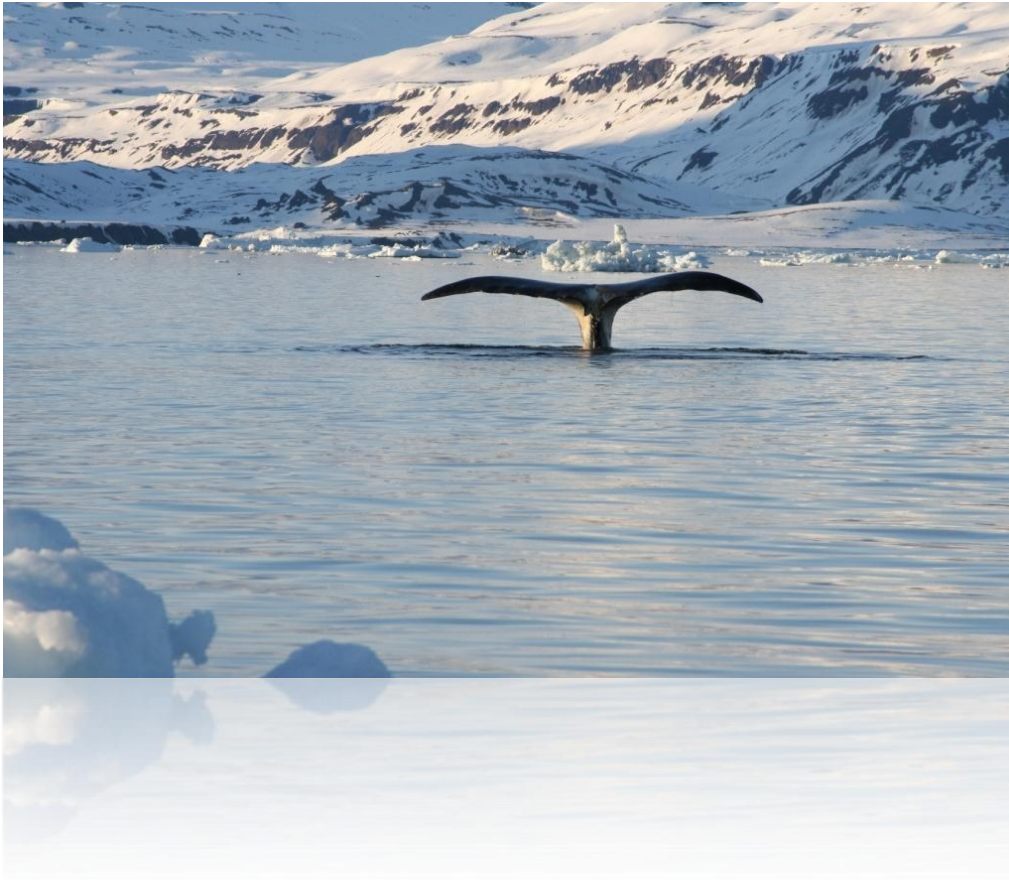
K. S. Boesgaard et al., Long-term structural canopy changes sustain net photosynthesis per ground area in high arctic *Vaccinium uliginosum* exposed to changes in near-ambient UV-B levels. *Physiologia Plantarum* 145, 540 (Aug, 2012).

R. Albert et al., Solar UV-B effects on PSII performance in *Betula nana* are influenced by PAR level and reduced by EDU: results of a 3-year experiment in the High Arctic. *Physiologia Plantarum* 145, 485 (Jul, 2012).

<http://www.science.ku.dk/pscl>

Tanker om samspil og prioriteter

...på klima-, miljø- og naturområdet ifht. Arktisk Råd og Kongerigets arktiske strategi...



- National koordinering (hvert Universitet sit center?)
- Fælles logistik platform (se Norge og Sverige)
- Web-baseret arktisk videntcenter og database



- Ressourcer i permanent form – et arktisk forskningsråd!
- Forskningseskib
- Øget internationalt samarbejde