

Thursday 15 February 2018, 13.30-17.00
The Beijer Hall, The Royal Swedish Academy of Sciences
Lilla Frescativägen 4A, Stockholm

Scenarios for a warmer Arctic

Climate change has dramatic impacts in the Arctic, with greater temperature increases compared to the Earth as a whole and rapidly melting summer sea ice. These changes are expected to substantially influence the Arctic environment as well as socio-economic activities.



In this symposium we will present and discuss new research concerning the direct results of global warming such as future sea ice conditions, impacts on live marine resources and on the provision of ecosystem services. Furthermore, we will discuss what impacts these changes have on fishing, oil extraction, aquaculture and other economic activities and how they in turn affect the environment and the lives of people in local communities.

The presentations are based on results from the transdisciplinary EU-project *Arctic Climate Change Economy and Society (ACCESS)*, recently published in a special issue of the journal *Ambio*.

Within *ACCESS*, a framework to support management in the region was also developed, which takes into account complex interactions between society and nature, possible abrupt change and considerable uncertainty.

The symposium is free of charge and open to the public but registration is required. Please register at www.kva.se/arctic by 13 February



Program

13.30 - 15.00

Introduction - The Arctic in a broader context and facets of Arctic change

Professor Jean-Claude Gascard, University Pierre and Marie Curie, LOCEAN and CNRS

Sea ice and weather forecasts

Dr. Michael Karcher, Alfred Wegener Institute

Seafood from a changing Arctic

Dr. John Isaksen, Norwegian Institute of Food, Fisheries and Aquaculture Research, NOFIMA

Scenarios for oil and gas production in a warmer Arctic

Associate Professor Katrin Rehdanz, Kiel University

The risks of Arctic oil spills and the response capacity

Jeremy Wilkinson, British Antarctic Survey

15.00 - 15.30 Coffee break

15.30 -17.00

Sources and impacts of Arctic air pollution

Dr. Kathy Law, University Pierre and Marie Curie, LATMOS

A holistic approach to Arctic management

Associate Professor Anne-Sophie Crépin, Beijer Institute of Ecological Economics

Panel Discussion

In collaboration with:



**THE ENVIRONMENTAL
COMMITTEE**

THE ROYAL SWEDISH ACADEMY OF SCIENCES