



3rd CRAICC-PEEX Workshop

Climate Change for Arctic Seas and Shipping

24-25 August 2015
Copenhagen, Denmark
Danish Meteorological Institute

2014
2015

Programme and Abstracts

CRAICC-PEEX

During 24-25 August 2015 the [3rd CRAICC-PEEX workshop](https://www.atm.helsinki.fi/craicc) on “Climate Change for Arctic Seas and Shipping” took place at Danish Meteorological Institute (DMI), Copenhagen, Denmark. The CRAICC-PEEX co-operation activity is linking the ongoing Nordic Center of Excellence “CRyosphere-Atmosphere Interactions in a Changing Arctic Climate” (CRAICC; <https://www.atm.helsinki.fi/craicc>) with a recently established “Pan Eurasian EXperiment” (PEEX; <https://www.atm.helsinki.fi/peex>), a research initiative focused on Northern Pan Eurasian arctic and boreal forest regions.

In total, more than 30* researchers and students attended the event from universities and research institutions (from China, Denmark, Finland, Japan, Russia, Switzerland, and Sweden) giving 16 oral presentations and tutorial (consisting of two parts: “Arctic amplification - contributing feedbacks and local vs. remote drivers” and “Summer sea ice loss and potential influences on mid-latitude weather” given by Peter L. Langen, DMI). The lectures on the state-of-the-art research and findings as well as international collaboration for the Arctic related research were given by invited speakers from China (Jinping Zhao), Russia (Elizaveta Zabolotskikh) and WMO, Switzerland (Alexander Baklanov). [Abstracts of presentations](#) are available in the [booklet of the workshop](#).

The topics of the workshop included: (i) estimating consequences of climate change for the Arctic region on seas and shipping and effects of ship emissions on the environment and climate; (ii) estimating frequency, spatio-temporal distribution and impact of extreme weather events on shipping traffic; (iii) improving satellite monitoring and modelling of ice formation and movement in areas of the Arctic shipping routes; (iv) developing approaches to environmental challenges due to possible increase in Arctic shipping.

During the workshop, oral sessions were co-chaired by Bent Sass, Alexander Baklanov and Hanna Lappalainen as well as discussions were organized and carried out on both days (as well continued at ice-breaking-party). Results of discussions were summarized as [brief summary](#) (including key questions to answer, examples and approaches, platform for collaboration, PEEX linkage to WMO Polar Prediction Project & Year Of Polar Prediction, conclusions and outcomes).

On behalf of the Workshop Organizing Committee,
Alexander Mahura, Annabelle Lund, Bent H. Sass, Peter L. Langen, and Vivian Henningsen.



photo by Palle Bo Nielsen (DMI)

special thanks to University of Copenhagen (Alexander Kurganskiy, Marielle B. Fournier, Roman Nuterman) for assistance in carrying out the event

* (not all participants are presented on the photo)