



@ICES_ASC

ICES – cooperation with the Arctic Council

Anne Christine Brusendorff,
ICES General Secretary
Oulu 25-26 October



ICES
CIEM

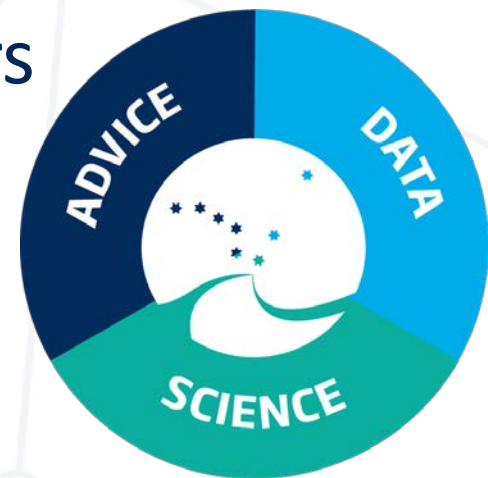
Picture: Alexander Fotolia

What is ICES?



International Council for the Exploration of the Sea

- An Intergovernmental Marine Science Organisation
- A science network
- A marine data centre
- A knowledge provider to policy & decision makers



An Intergovernmental Marine Science Organisation



20 countries working in partnership to:

“advance the scientific understanding of marine ecosystems and provide information, knowledge, and advice on the sustainable management of human activities affecting, and affected, by marine ecosystems”



Working with partners in the Arctic:



Scientific Experts meetings on Fish Stocks in the Central Arctic Ocean



International Council for Exploration of the Sea



Products

- Recurrent advice on 200–250 fishing opportunities
- Special requests on broader ecosystem considerations, methods, standards, vulnerable marine ecosystems, indicator development
- International data hub
- International peer review
- Science highlights within areas of societal importance and overviews
- Identification of research needs
- Training
- Publications



Integrated Ecosystem Assessments* and Ecosystem Overview**



*Norwegian Sea, Barents Sea, and Central Arctic ocean. ** Icelandic waters

WGICA 2017 REPORT

STEERING GROUP ON INTEGRATED ECOSYSTEM ASSESSMENTS

ICES CM 2017/SSSGIEA:11

REF ACOM AND SCICOM

Interim Report of the ICES/PICES/PAME
Working Group on
Integrated Ecosystem Assessment (IEA)
for the Central Arctic Ocean (WGICA)

19-21 April 2017

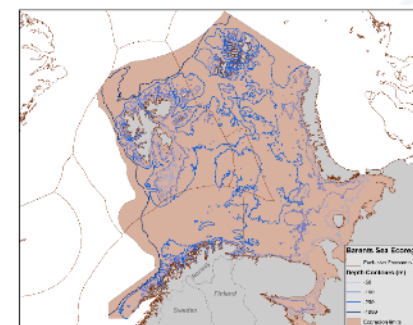
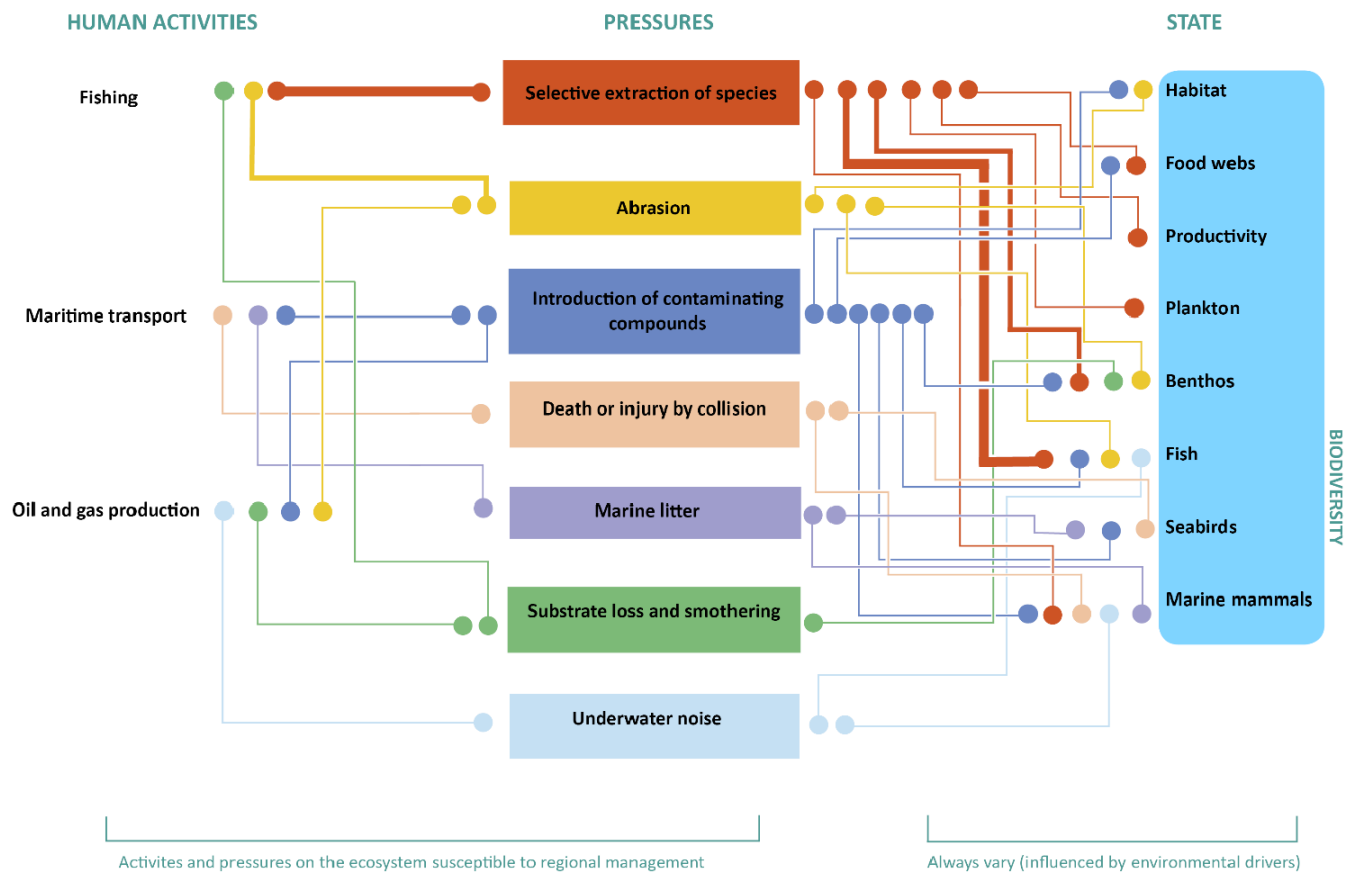
Seattle, USA

- PICES/ICES/PAME – second meeting took place in Seattle, May 2017
- WGICA - aims to provide a holistic and integrated view on the status, trends and pressures, and
- Contribute to implementation of the ecosystem approach to management of the Central Arctic Ocean:
 - sensitivity and vulnerability in relation to climate change, and shipping activities
 - prospect for future fisheries

ICES Ecosystem Overview - Barents Sea

View the interactive diagram here:

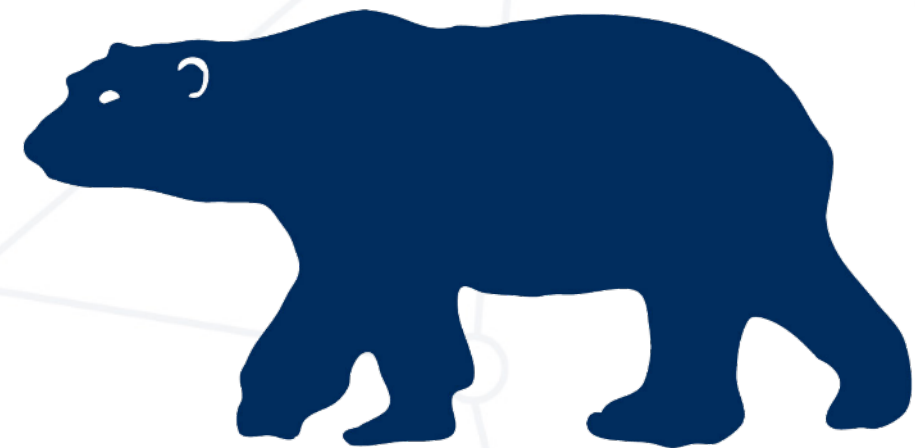
<http://www.ices.dk/explore-us/Action%20Areas/ESD/Pages/Barents-Sea-Ecoregion-overview.aspx?diagramid=9>



Issues highlighted by the Barents Sea IEA

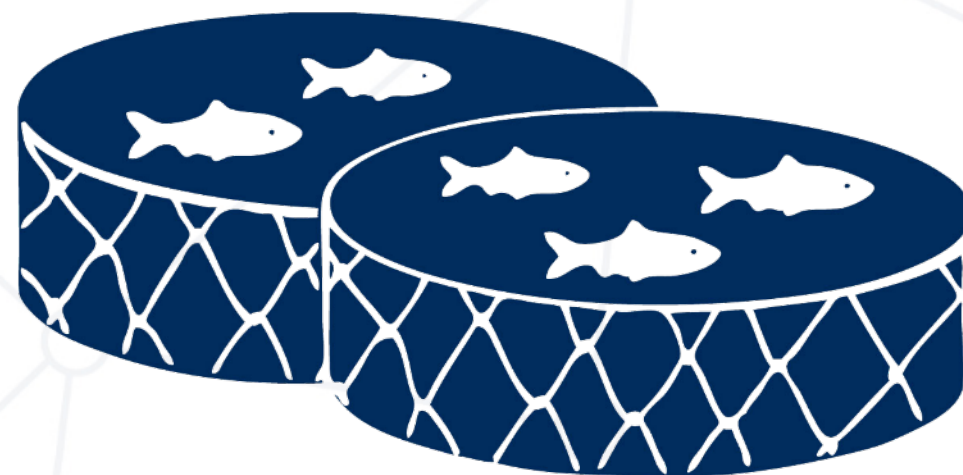


- Reduction in ice, increase in temperature
- Identifying species & habitats vulnerable to human impacts
- Invasive species
- Impact of reduction of Arctic water influence in Barents Sea



Issues highlighted by the Barents Sea IEA

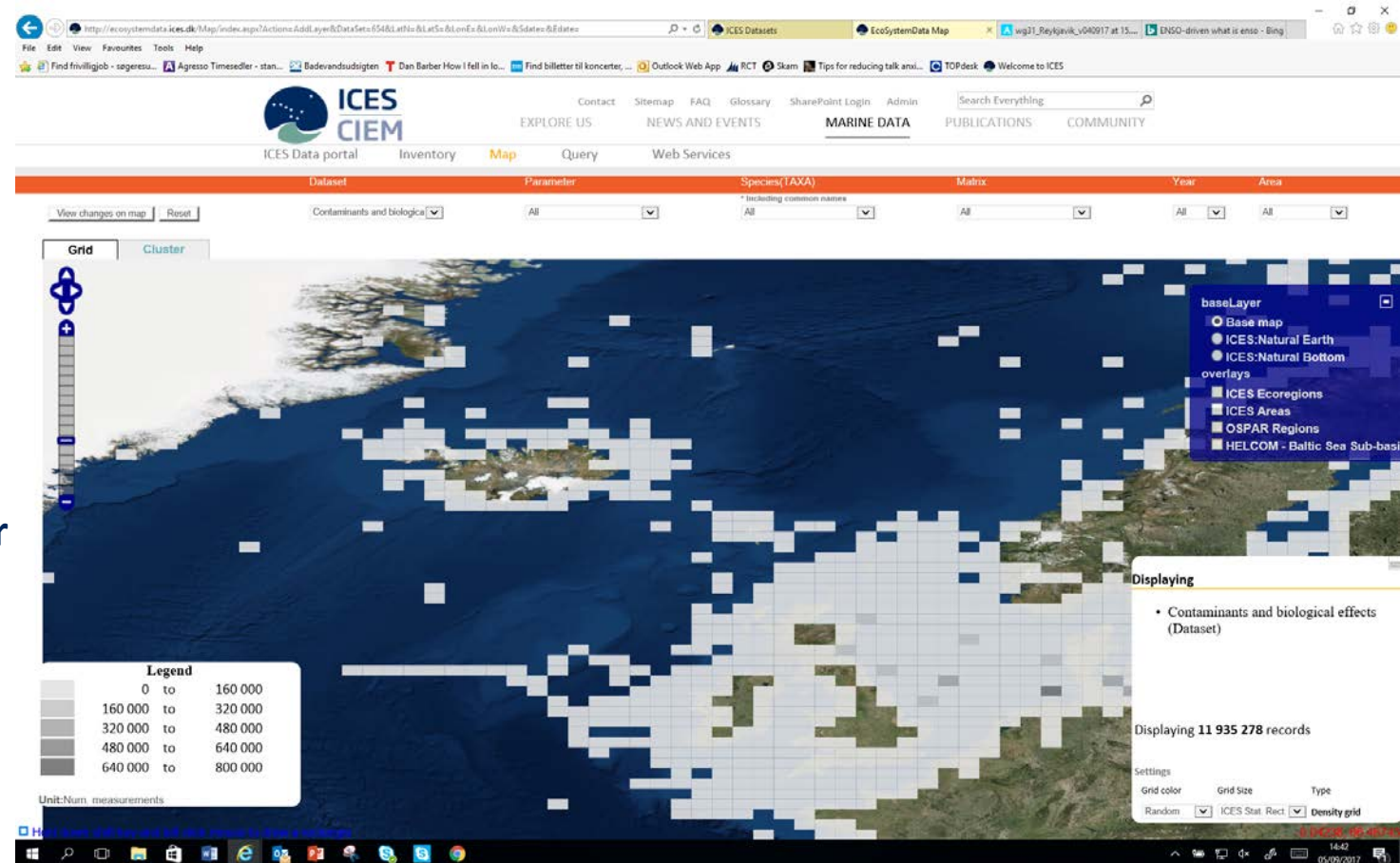
- Changes in productivity (primary & secondary)
- How to utilize traditional knowledge
- Impact of recovery of fish stocks on ecosystem
- Ocean acidification
- What are social drivers



Contaminants and human health issues



- ICES Contaminants and Biological Effects dataset; closely related to the AMAP monitoring and assessment programme
- Potential further cooperation; hazardous substances assessment tool, generating on demand dataset products from the ICES databases.
- ICES representative in the PAME Marine Litter desktop study



Ocean Climate

Status of sea temperature and salinity in network of regularly monitored sites

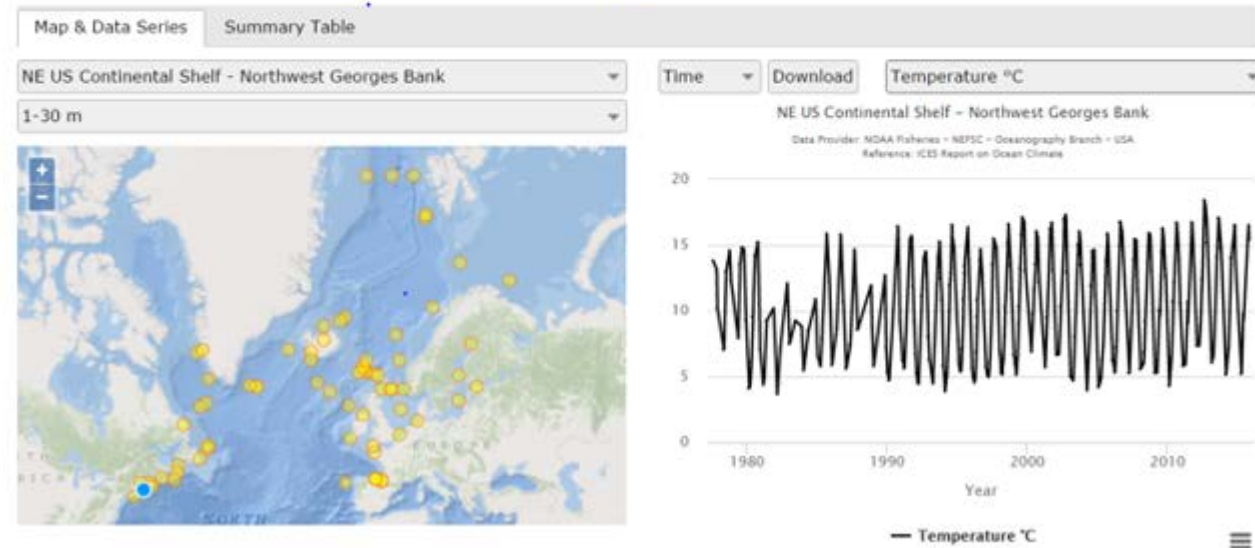


ICES REPORT ON OCEAN CLIMATE (IROC)

ICES Report on Ocean Climate (IROC) provides summary information on climatic conditions in the North Atlantic.



Browse the IROC data series below and/or Download the most recent report [here](#)



<http://ocean.ices.dk/iroc/>

ICES is appreciative of its observer status and would like to engage by:



- Offering our Scientific Platform, with knowledge in various fields associated with the Arctic
- We are open to discussions related to data collection and management
- Would be interested to participate in the 2nd Arctic Science Ministerial Berlin, 25-26 October 2018

- Inviting you to participate at the 4th ICES/PICES/IOC/FAO Symposium on Climate Change and Impacts on the World's Oceans, 4–8 June 2018, Washington D.C., USA. More info here: <http://www.ices.dk/news-and-events/symposia/Pages/Fourth-International-Symposium-on-the-Effects-of-climate-change-on-the-world%E2%80%99s-oceans.aspx>



Thank you!



Science for sustainable seas

Jeremy Potter, NOAA