SMARTIC

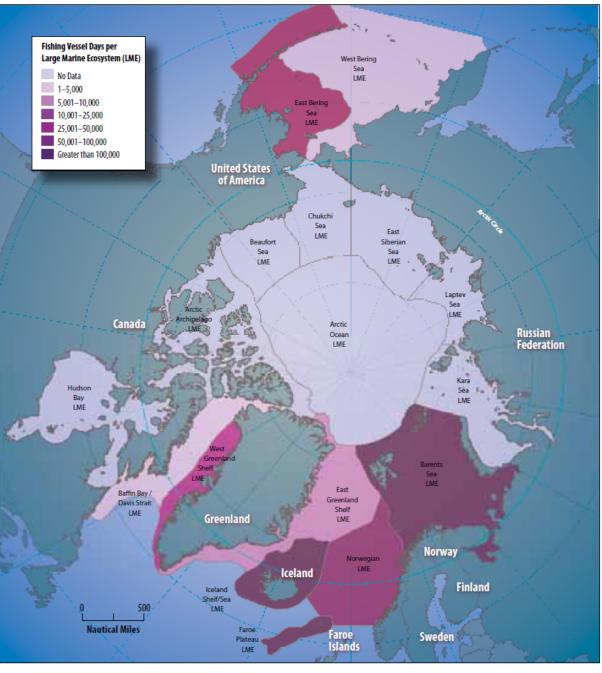
Stakeholder Distribution Maps

COMMERCIAL FISHERIES

Current Activity in

the Arctic





COMMERCIAL **FISHERIES Projected Mid-**

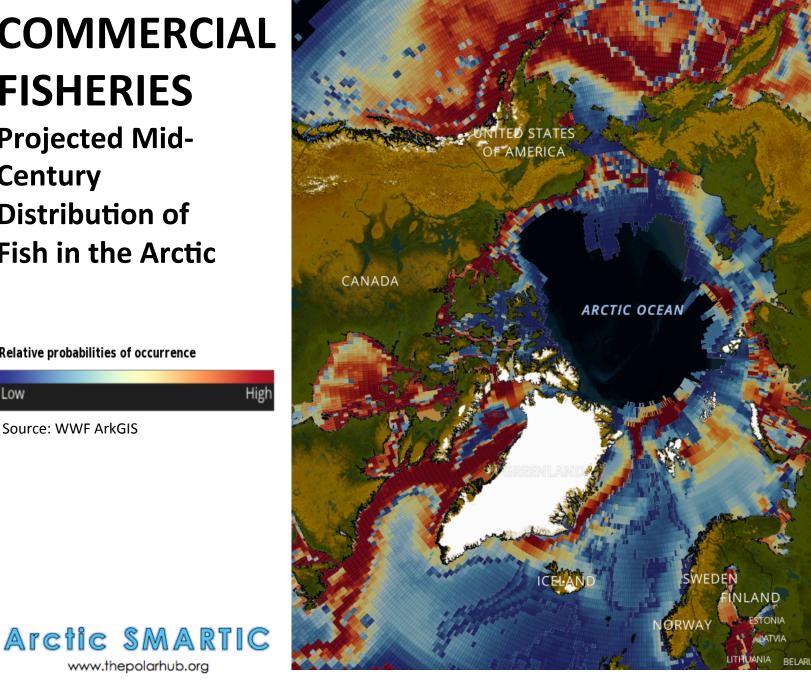
Century **Distribution of** Fish in the Arctic

Relative probabilities of occurrence

Low Source: WWF ArkGIS

FEDERATION /EDEN NLAND STONIA ORWAY AIVIA BELARUS

RUSSIAN

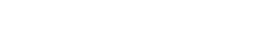


SHIPPING INDUSTRY Current Arctic Traffic

Ship traffic density in 2011

Source: WWF ArkGIS

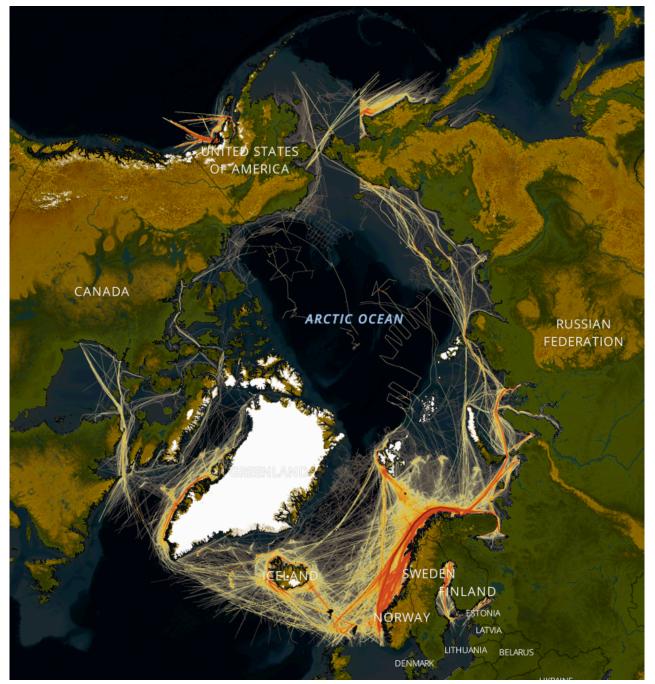
Low



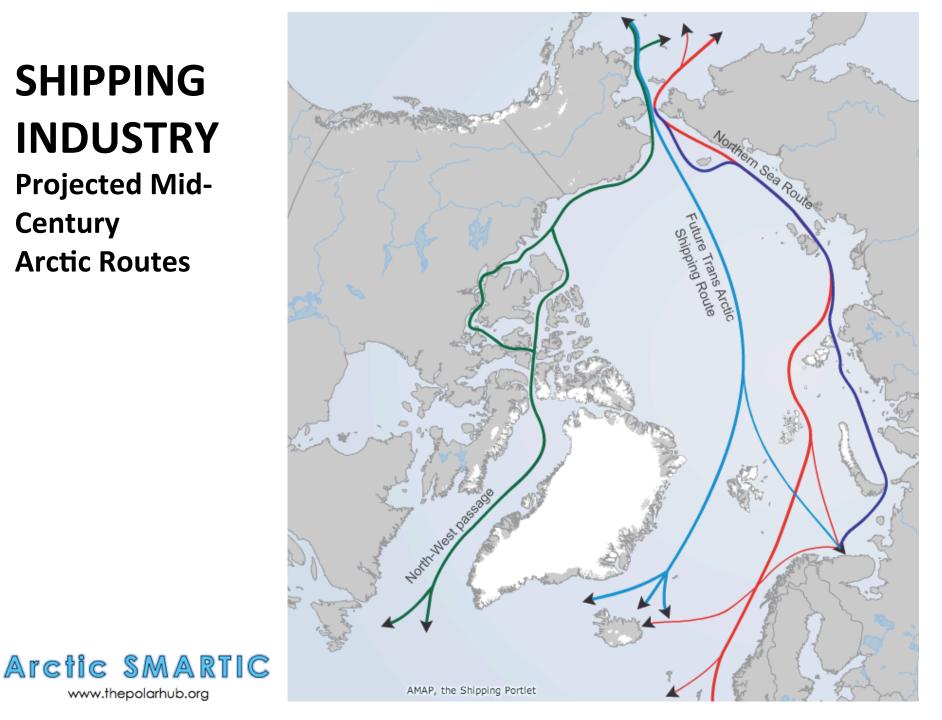
Data source: Automatic System (AIS) data, provided by The Norwegian Coastal Administration / www.havbase.no (2012) and further processed by DNV and WWF

High



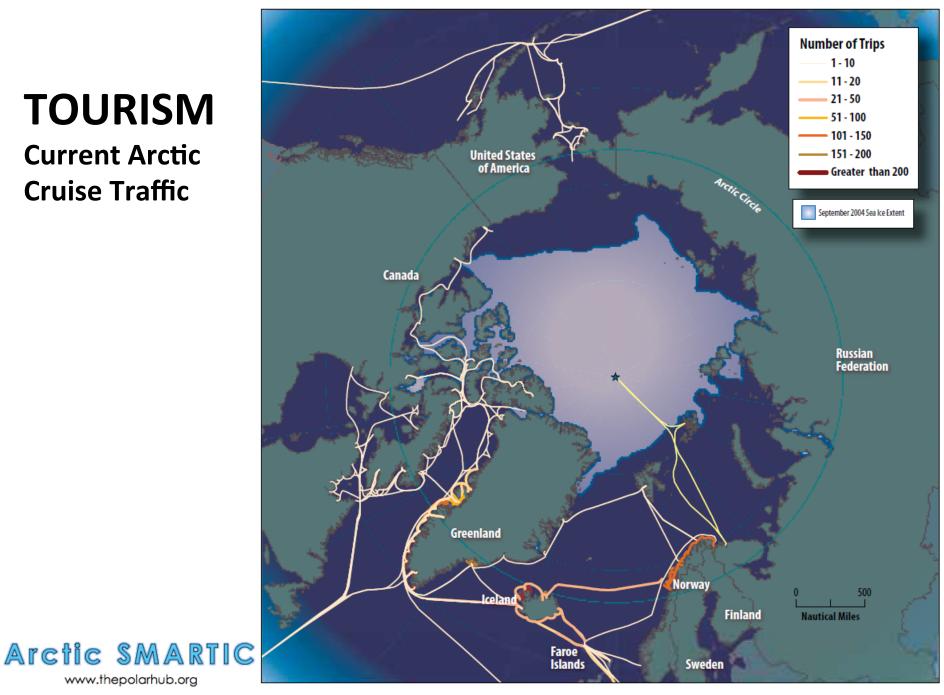


SHIPPING INDUSTRY Projected Mid-Century **Arctic Routes**



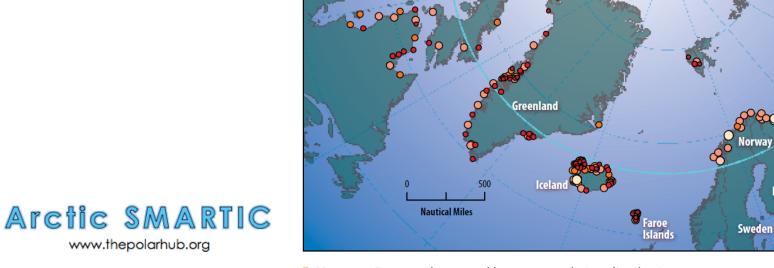
TOURISM Current Arctic

Cruise Traffic



COASTAL COMMUNITIES

Current Population Centers in the Arctic



Canada

Arctic Coastal Communities

 0–100 101-500

501–1,000 1,001–25,000 25,001-50,000 Greater than 50,000

Map 7.1 Circumpolar coastal human population distribution. Source: AMSA

United States of America

> Ö1 0

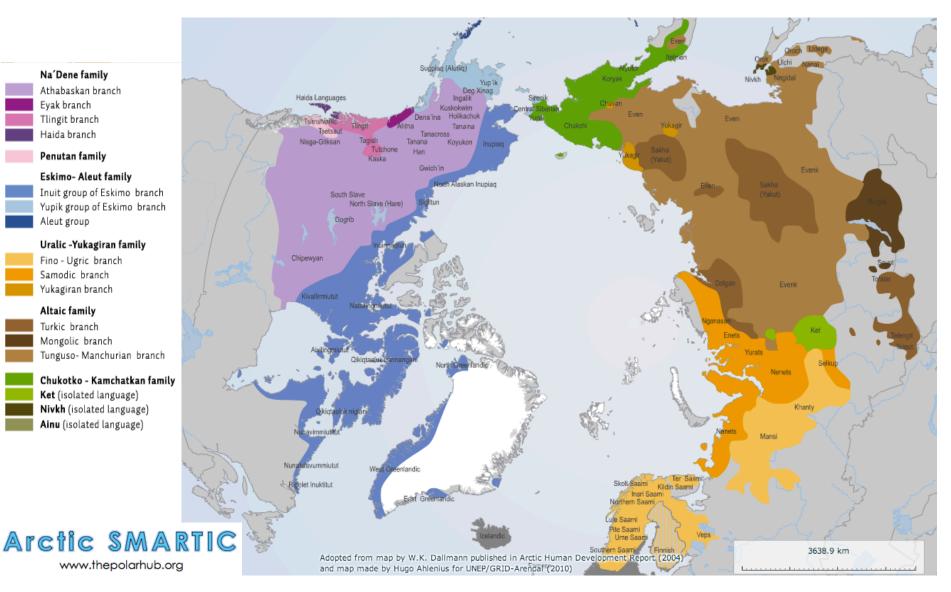
> > lorway

Finland

Russian Federation

INDIGENOUS COMMUNITIES

Arctic Distribution



OIL & GAS Current Arctic Activity

Oil and gas

Current licences Data source: Wellbore database [Internet]. Norway: The Norwegian Petroleum

Directorate; 1966 - 2013.

AOGCC Online Public Databases [Internet]. Alaska: Alaska Oil and Gas Conservation Commission; 2012.

BASIN Database [Internet]. Natural Resources Canada, Geological Survey of Canada, Geoscience Data Repository.

Current Licences in Greenland [Internet]. Greenland: Bureau of Minerals and Petroleum, Government of Greenland: 2013.

Current Licences in the Icelandic Continental Shelf [Internet]. Iceland: The National Energy Authority of Icelar (NEA): 2013.

27th Round of Offshore Licensing Position. United Kingdom: Department of Energy & Climate Change; 2013.

Oil and gas

Production wells
Data source: Wellbore database
[Internet]. Norway: The Norwegian
Petroleum Directorate: 1966 - 2013.

<u>AOGCC Online Public Databases</u> [Internet]. Alaska: Alaska Oil and Gas Conservation Commission; 2012.

BASIN Database [Internet]. Natural Resources Canada, Geological Survey of Canada, Geoscience Data Repository.

Oil and gas

Future developments Data source: Wellbore database [Internet]. Norway: The Norwegian

AGGCC Online Public Databases [Internet]. Alaska: Alaska Oil and Gas Conservation Commission: 2012.

Oil and gas

♥ Other activities Data source: Wellbore database [Internet]. Norway: The Norwegian Petroleum Directorate: 1966 - 2013.

AOGCC Online Public Databases [Internet]. Alaska: Alaska Oil and Gas Conservation Commission; 2012.

Oil and gas

Exploration wells Data source: Wellbore database [Internet]. Norway: The Norwegian Petroleum Directorate; 1966 - 2013.

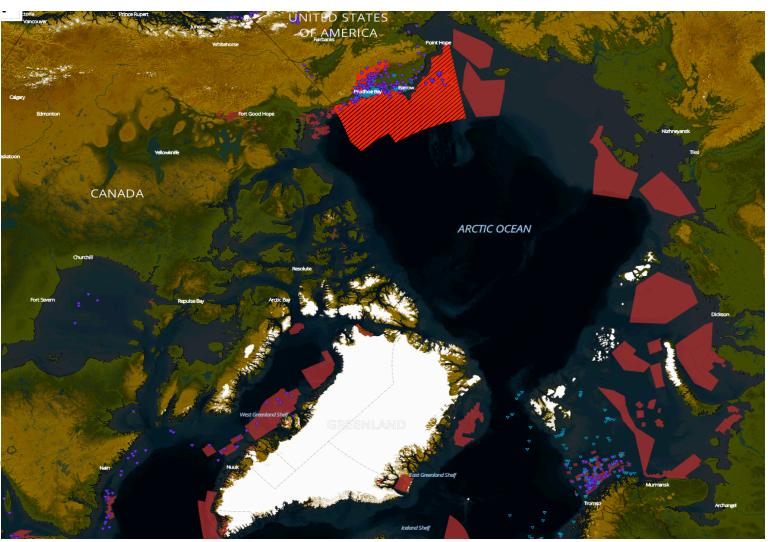
AOGCC Online Public Databases [Internet]. Alaska: Alaska Oil and Gas Conservation Commission; 2012.

Exploration Wells in Greenland [Internet]. Greenland: Bureau of Minerals and Petroleum, Government of Greenland; n

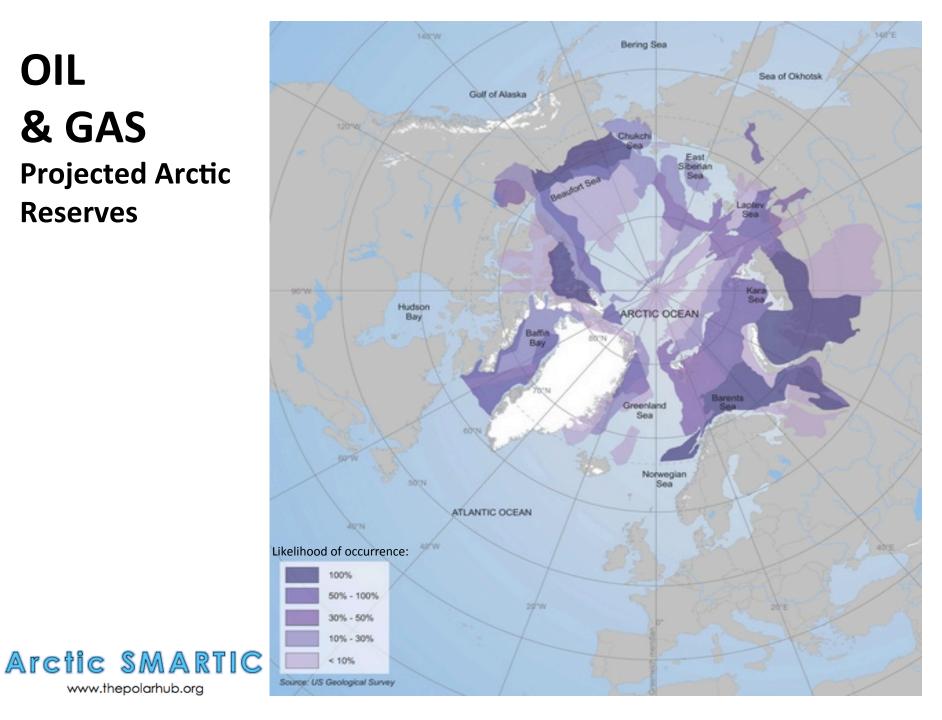
BASIN Database [Internet]. Natural Resources Canada, Geological Survey of Canada, Geoscience Data Repository.

Source: WWF ArkGIS





OIL & GAS **Projected Arctic** Reserves



ENVIRONMENTAL ADVOCATES

Important Ecological Areas in the Arctic

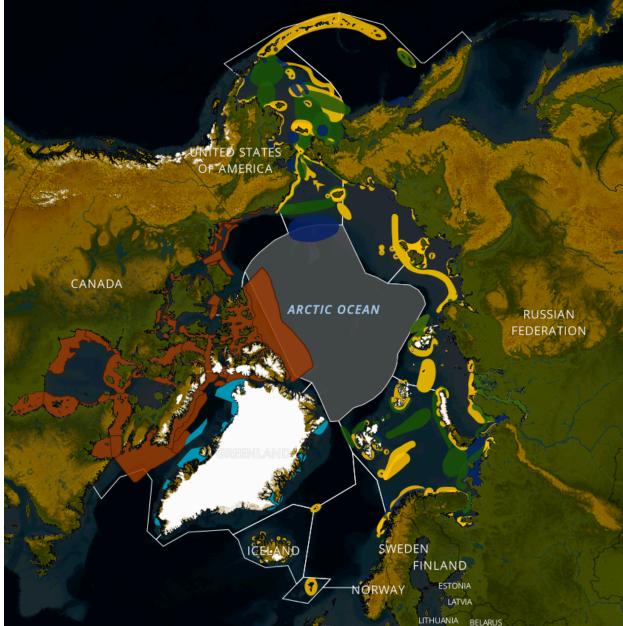


Data source: AMAP/CAFF/SDWG (2013). Institute of Marine Research (IMR), Bergen, Norway.

Arctic SMARTIC

www.thepolarhub.org

Source: WWF ArkGIS

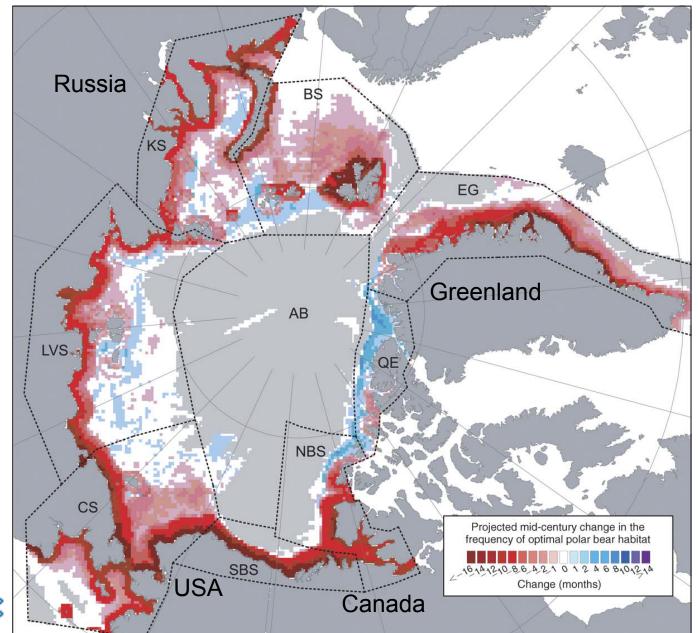


ENVIRONMENTAL ADVOCATES

Projected Mid-Century Changes in Polar Bear Habitat

Ecological Monographs, 79(1), 2009, pp. 25–58 2009 by the Ecological Society of America GEORGE M. DURNER,1,15 DAVID C. DOUGLAS,2 RYAN M. NIELSON,3 STEVEN C. AMSTRUP,1 TRENT L. MCDONALD,3 IAN STIRLING,4 METTE MAURITZEN,5 ERIK W. BORN,6 ØYSTEIN WIIG,7 ERIC DEWEAVER,8 MARK C. SERREZE,9 STANISLAV E. BELIKOV,10 MARIKA M. HOLLAND,11 JAMES MASLANIK,12 JON AARS,13 DAVID A. BAILEY,11 AND ANDREW E. DEROCHER,14

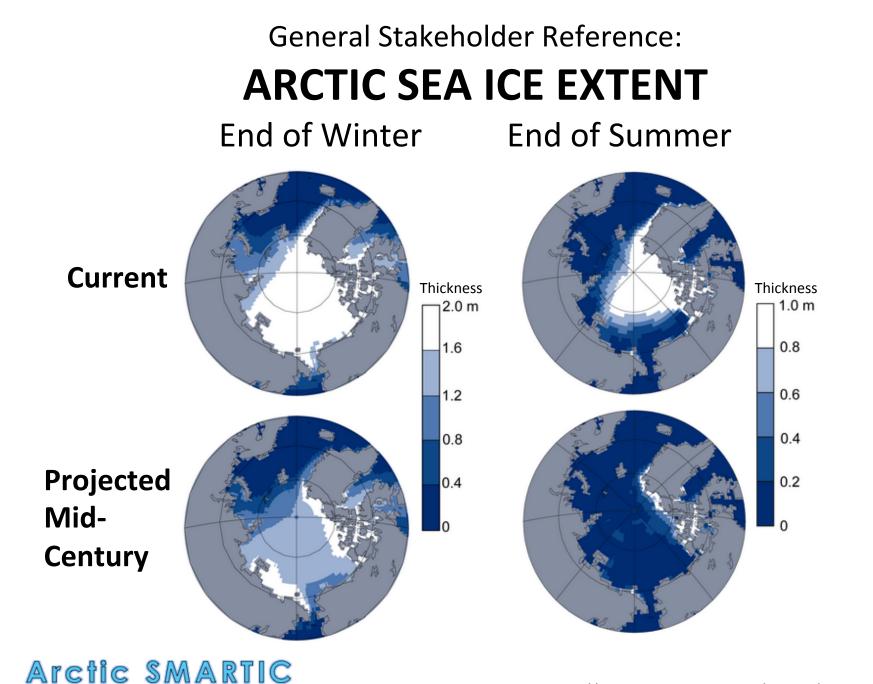
Arctic SMARTIC



General Stakeholder Reference:

ARCTIC PORTS Current Locations





http://www.arctic.noaa.gov/future/sea_ice.html