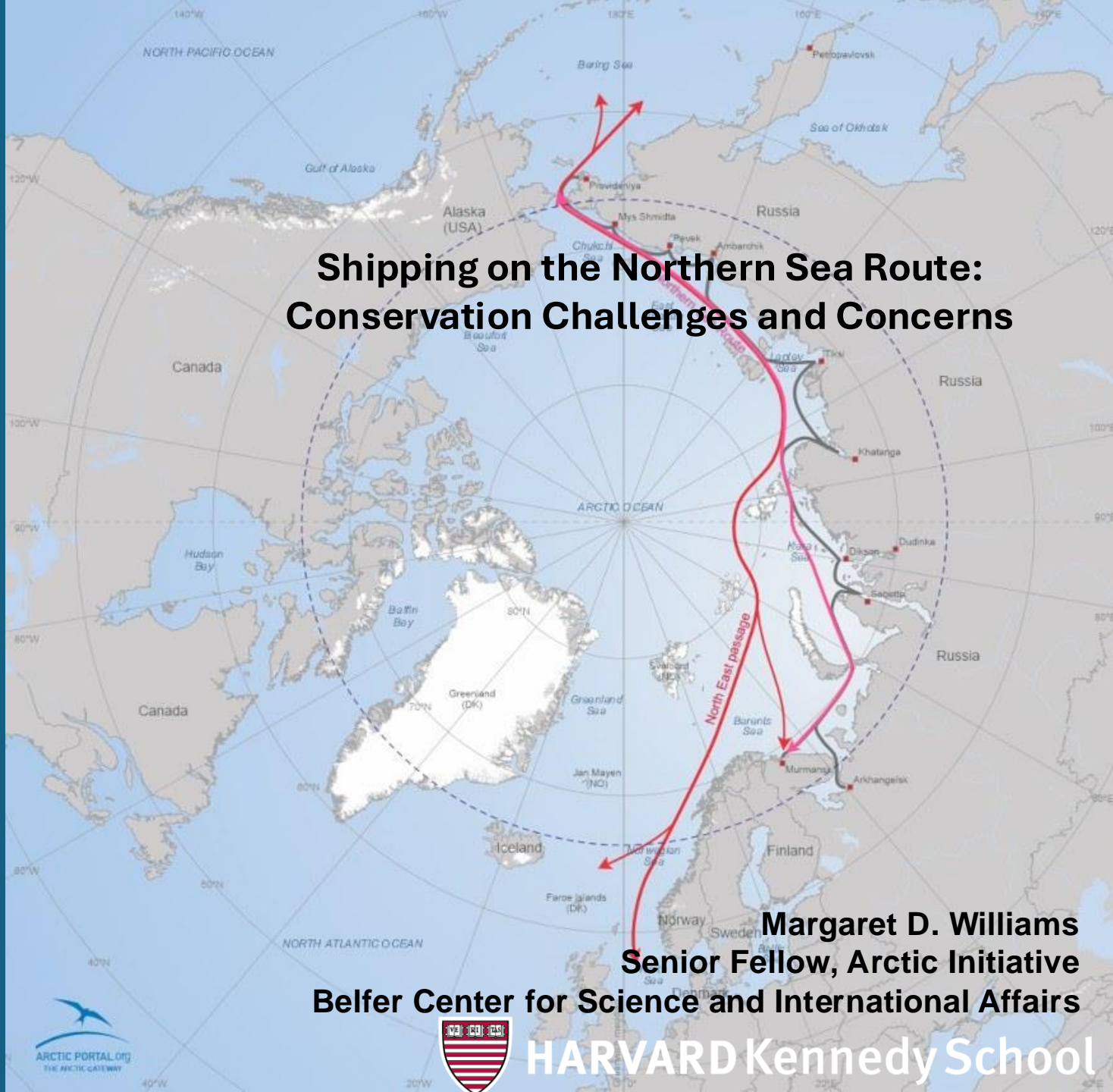


Shipping on the Northern Sea Route: Conservation Challenges and Concerns

Arctic Sea Routes with Delivery Lines in Russia

-  Northern Sea Route
-  North-East Passage
-  Delivery Lines in Russia
-  The Arctic Circle

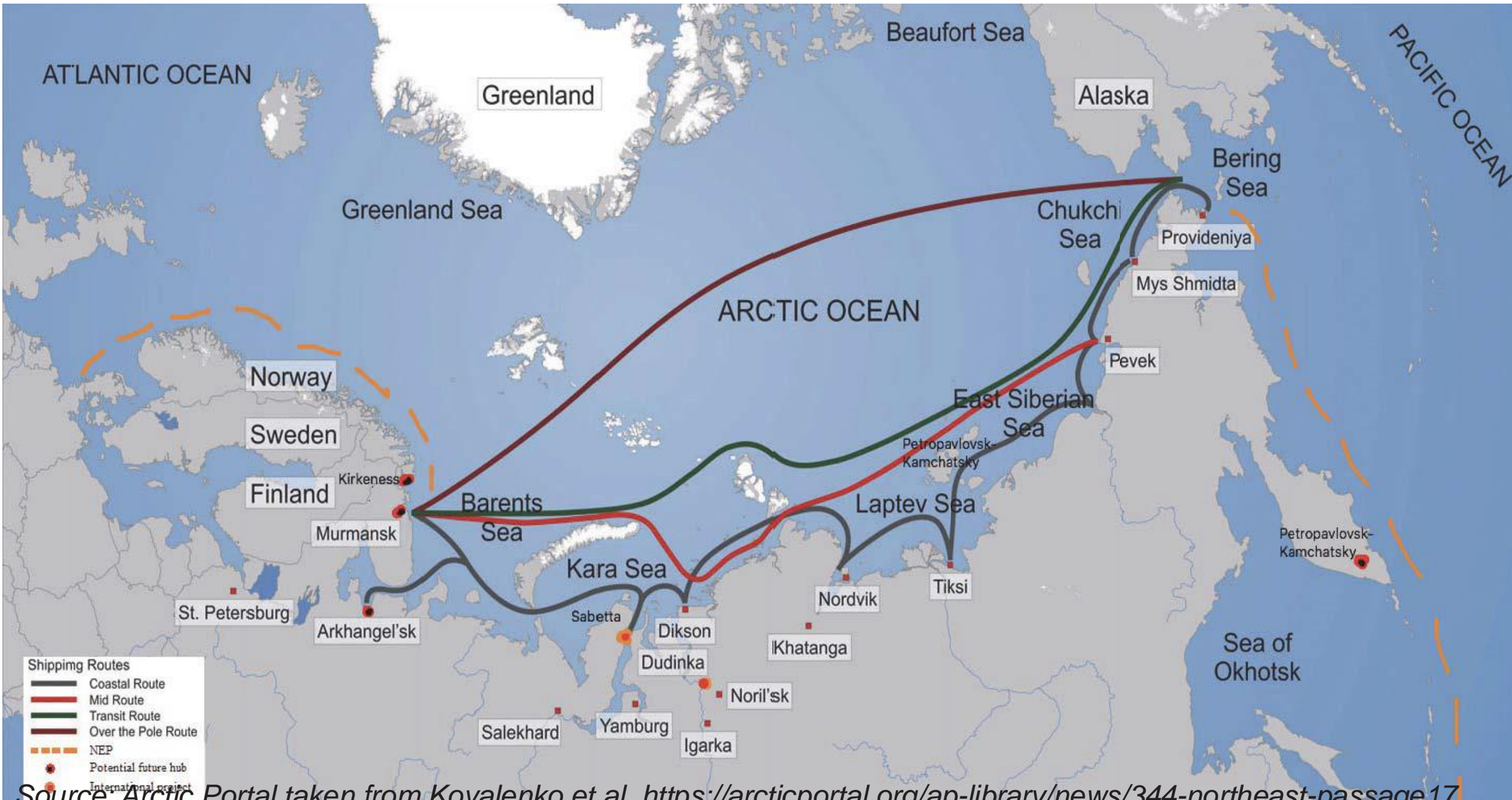


Margaret D. Williams
Senior Fellow, Arctic Initiative
Belfer Center for Science and International Affairs



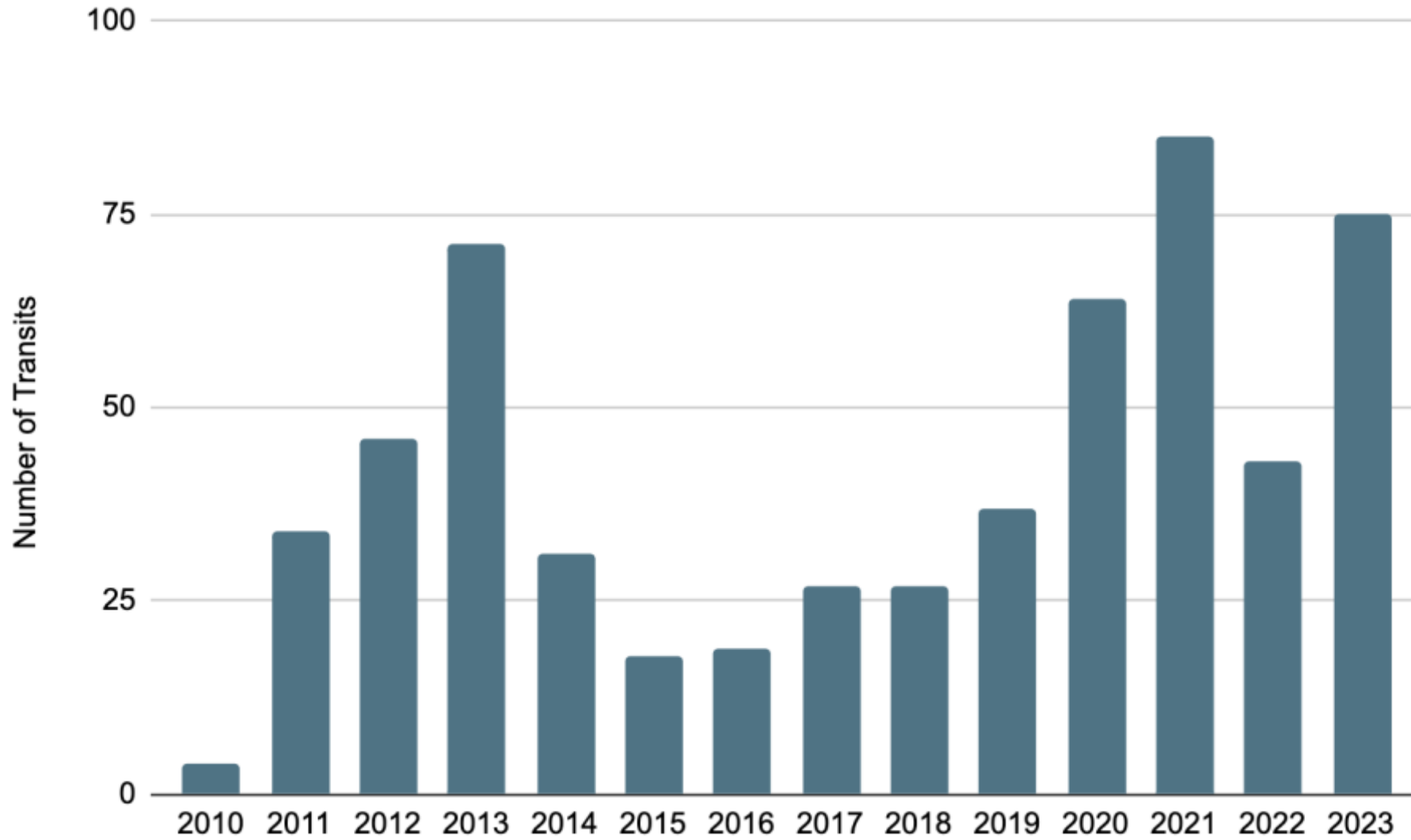
HARVARD Kennedy School





Source: Arctic Portal taken from Kovalenko et al. <https://arcticportal.org/ap-library/news/344-northeast-passage17>

Number of NSR transit voyages between 2010 and 2023

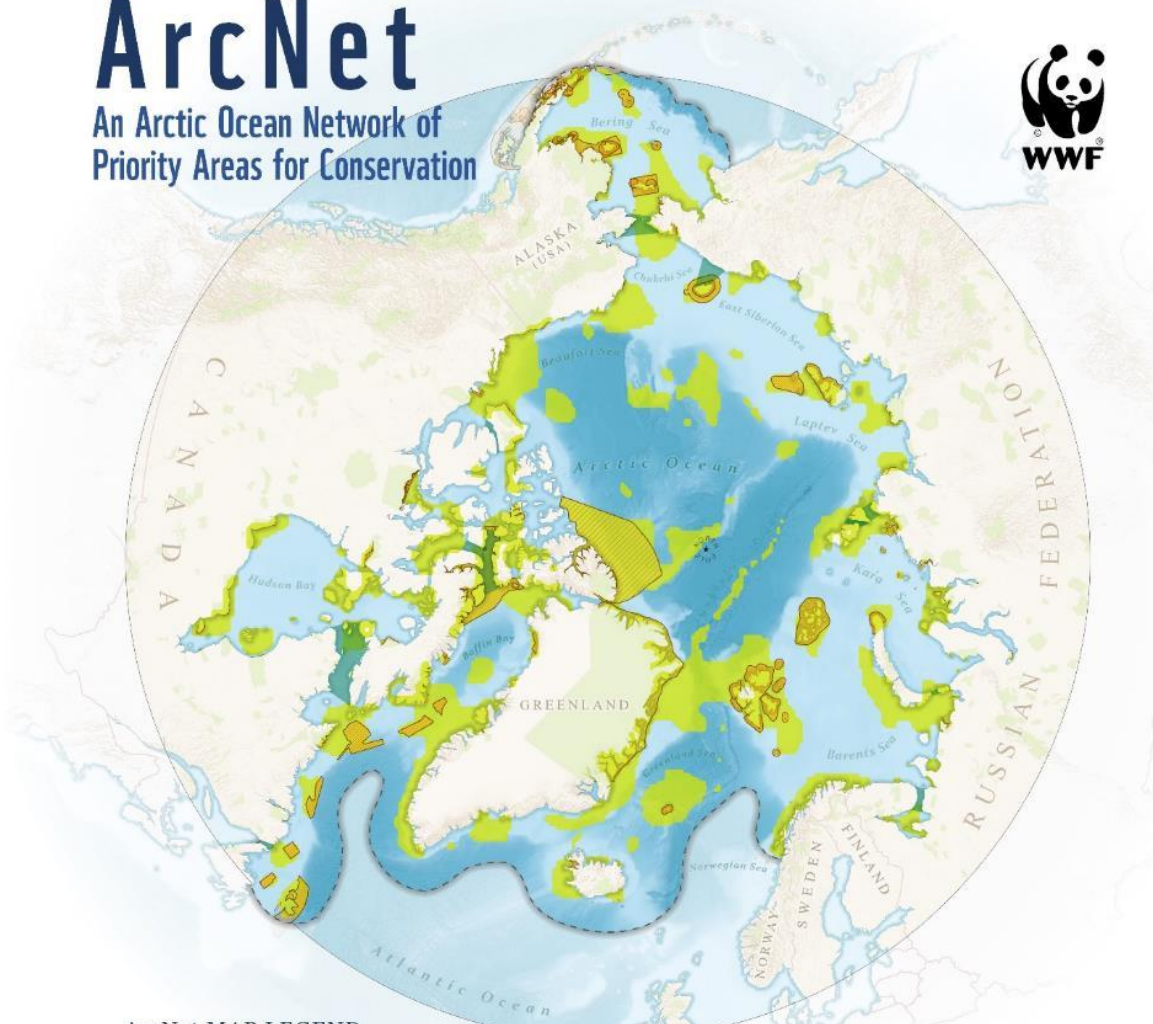


Source: Malte Humpert with data from Center for High North Logistics

<https://www.highnorthnews.com/en/china-pushes-northern-sea-route-transit-cargo-new-record>

ArcNet

An Arctic Ocean Network of
Priority Areas for Conservation



ArcNet MAP LEGEND

AN ARCTIC OCEAN NETWORK OF
PRIORITY AREAS FOR CONSERVATION



ArcNet
BOUNDARY



EXISTING PROTECTED AREAS

TERRESTRIAL

MARINE

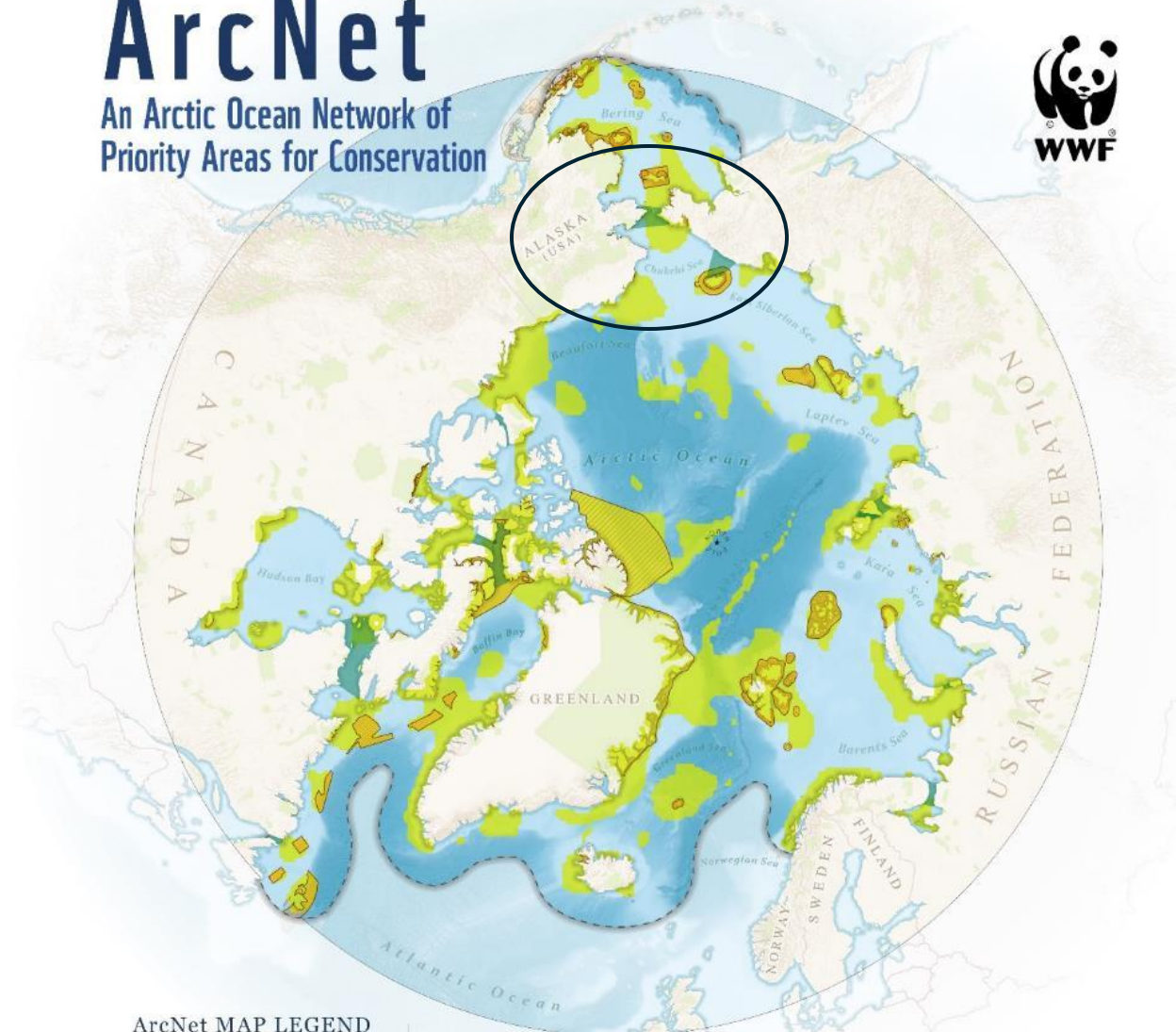
ARCNET IDENTIFIED AREAS

PRIORITY AREA FOR CONSERVATION

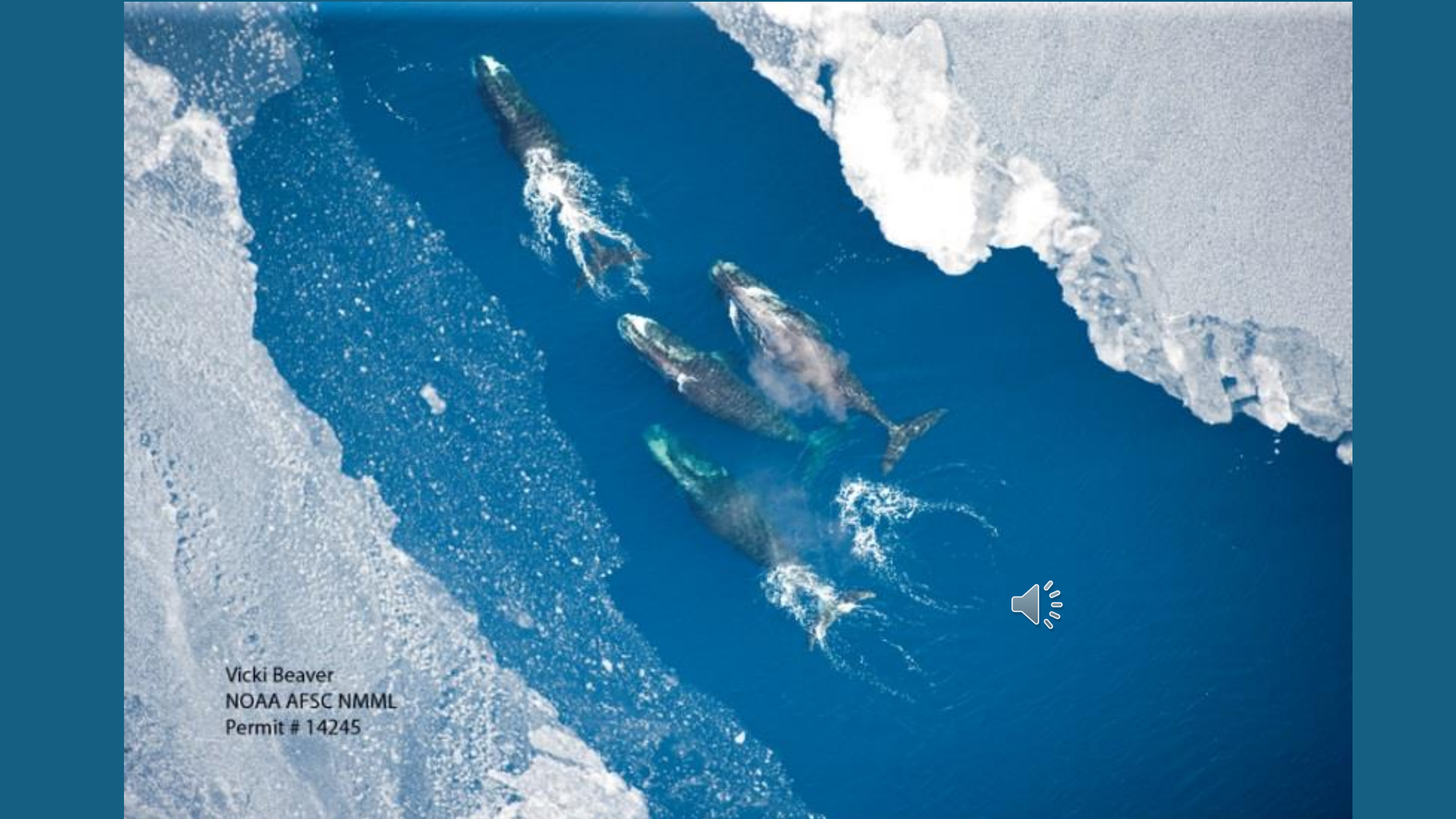
MIGRATION BOTTLENECK

ArcNet

An Arctic Ocean Network of
Priority Areas for Conservation



ArcNet MAP LEGEND



Vicki Beaver
NOAA AFSC NMML
Permit # 14245



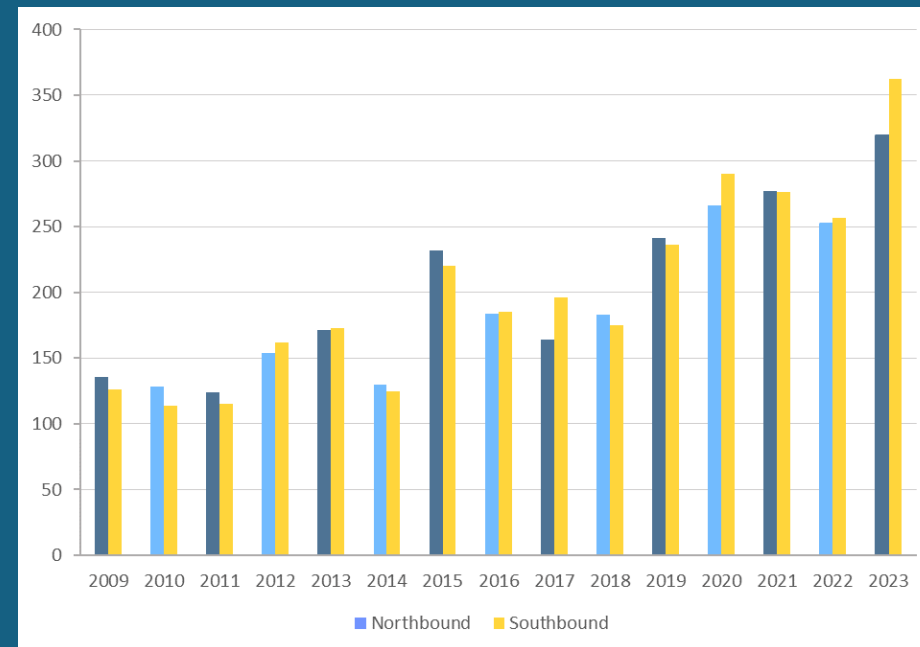


Corey Accardo
NOAA/NMFS/AFSC/NMML
USFWS Permit No. MA212570
Funded by BOEM
IA Contract No.M11PG00033





Year	Northbound	Southbound	Total
2010	128	114	242
2011	124	115	239
2012	154	162	316
2013	171	173	344
2014	130	125	255
2015	232	220	452
2016	158	182	340
2017	164	196	360
2018	183	175	358
2019	241	236	477
2020	267	290	557
2021	278	277	555
2022	252	257	509
2023	319	362	681



Source: E. Page, Marine Exchange of Alaska,
1/27/24



Photo: USFWS

What are our options?....

Failing to plan = planning to fail

Renew bi-lateral coast guard spill prevention exercises

Environmental standards for the NSR

Engage China and Non-Arctic States

Could the Bering Strait be a zone of peace /stewardship?



