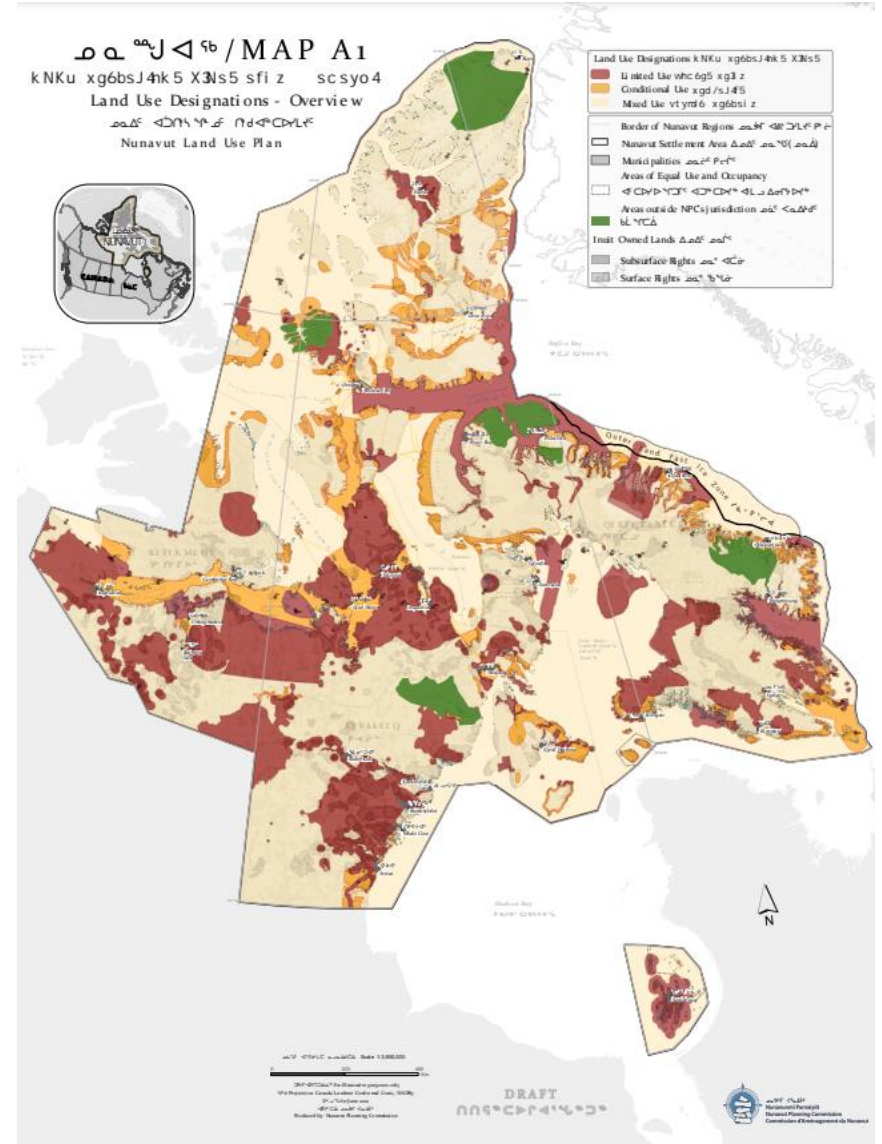
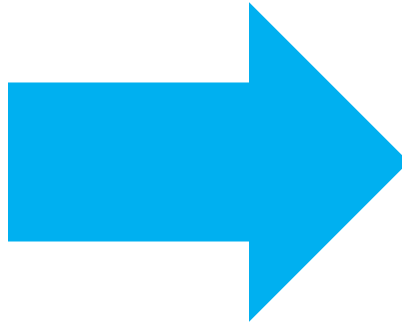


A wide-angle photograph of an Arctic landscape. In the foreground, a vast, flat expanse of snow and ice stretches towards the horizon. In the middle ground, two small, dark-colored boats are visible on the ice. The background features a range of low mountains with patches of snow under a pale, overcast sky.

# WWF-Canada's Marine Conservation Planning Tools

Erin Keenan, Senior Manager, Arctic Marine Conservation, WWF-Canada

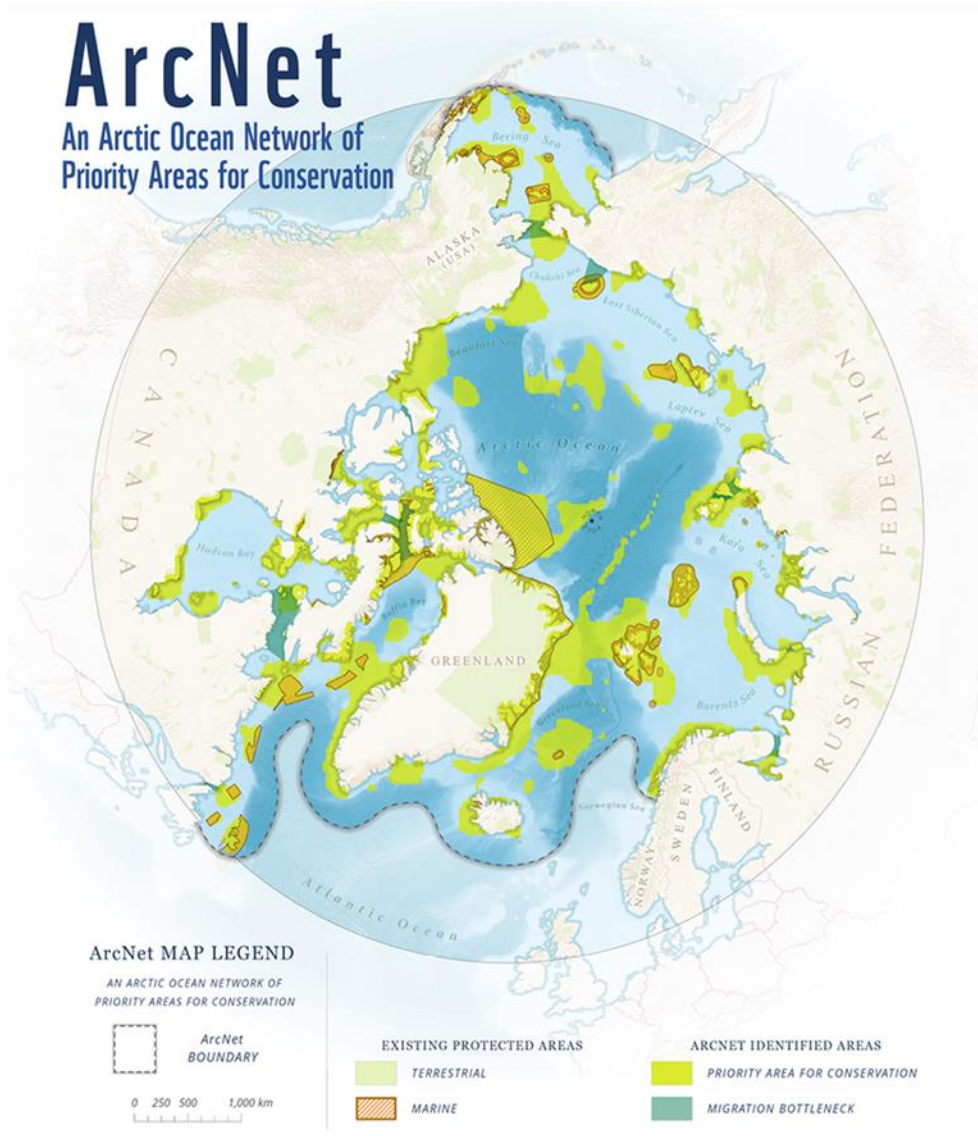
# Nunavut Land Use Plan



# WWF's Arctic MPA Network Planning

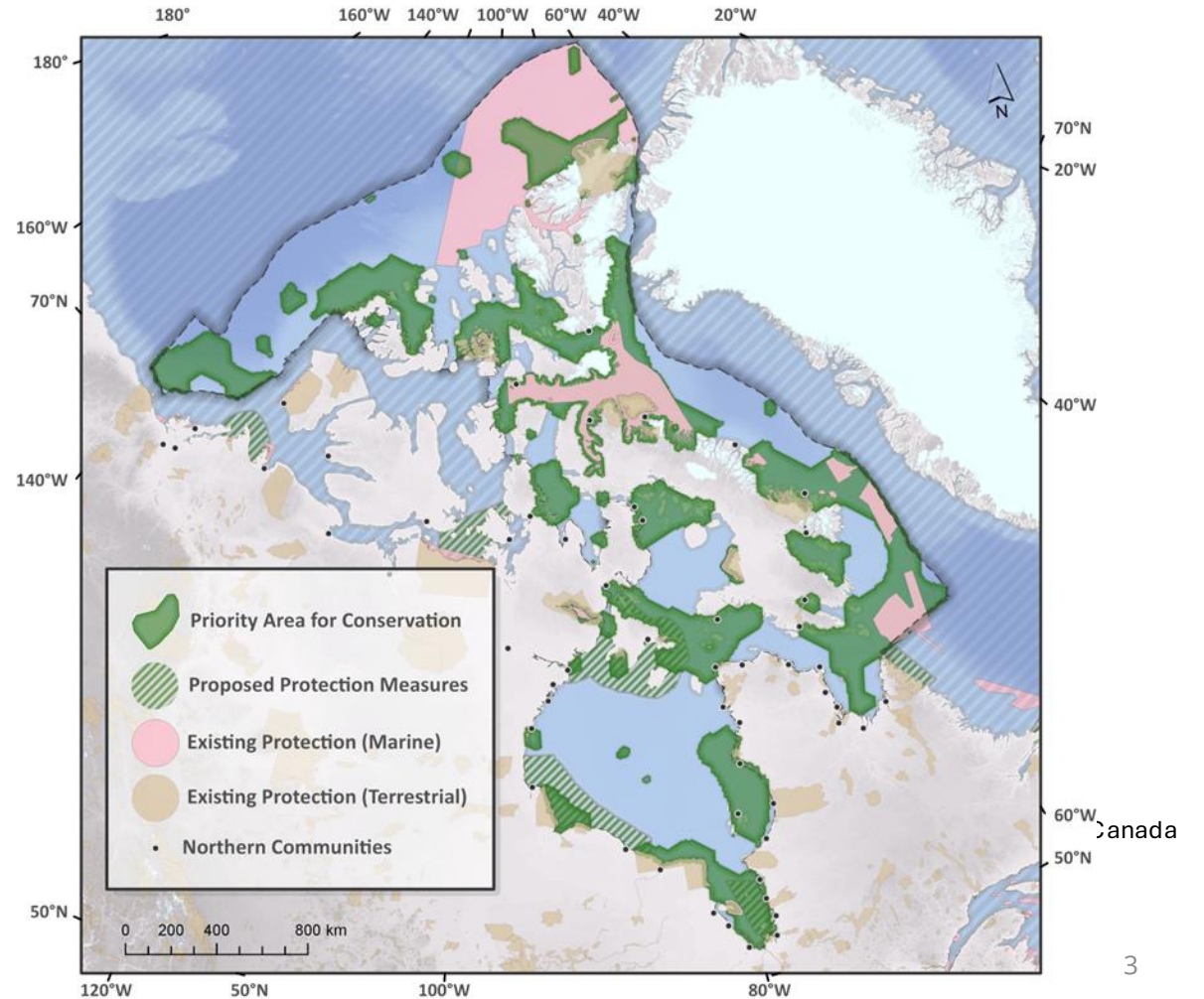
## ArcNet

An Arctic Ocean Network of Priority Areas for Conservation



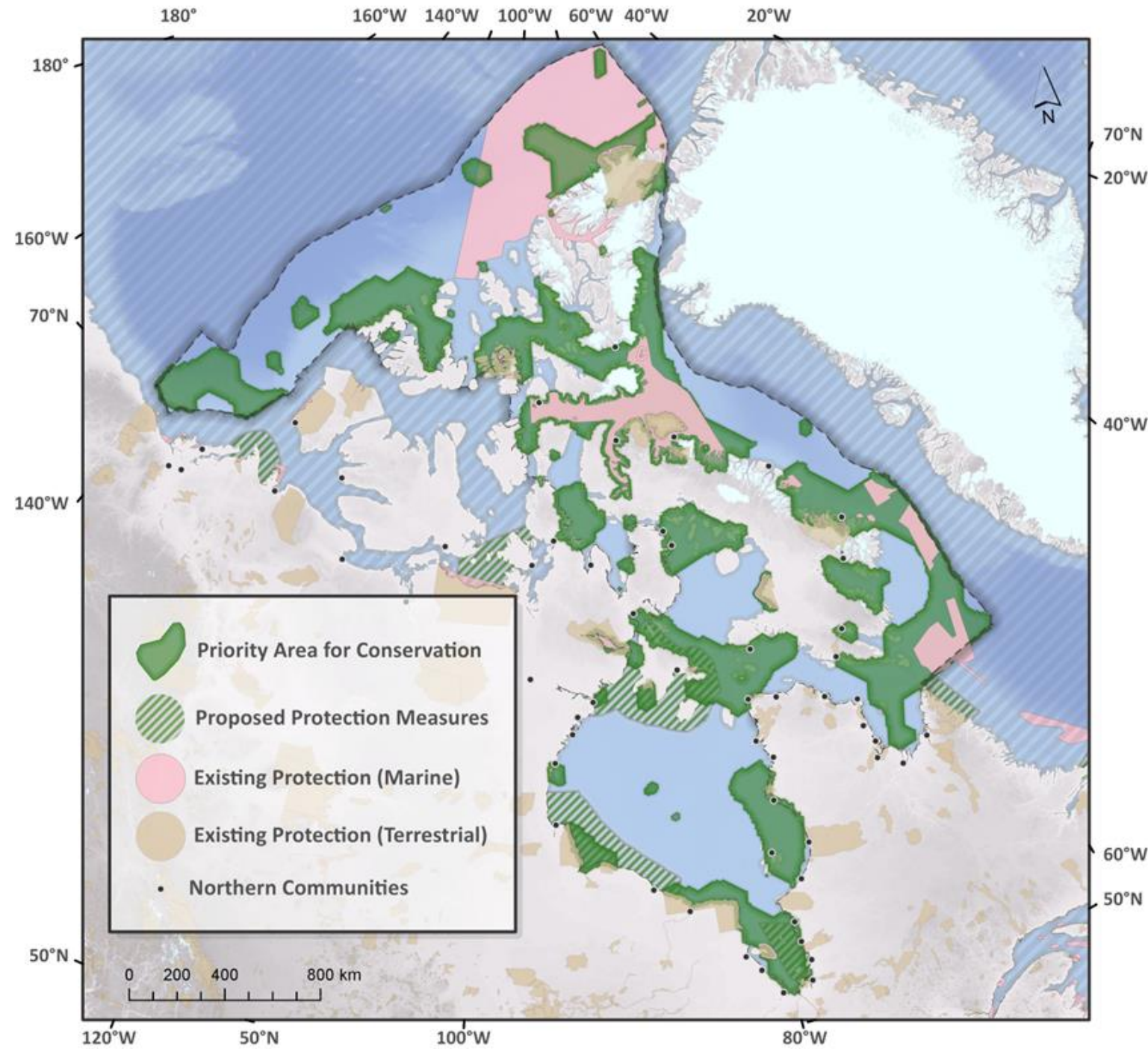
## CanPAC:

Canadian Arctic Marine Priority Areas for Conservation



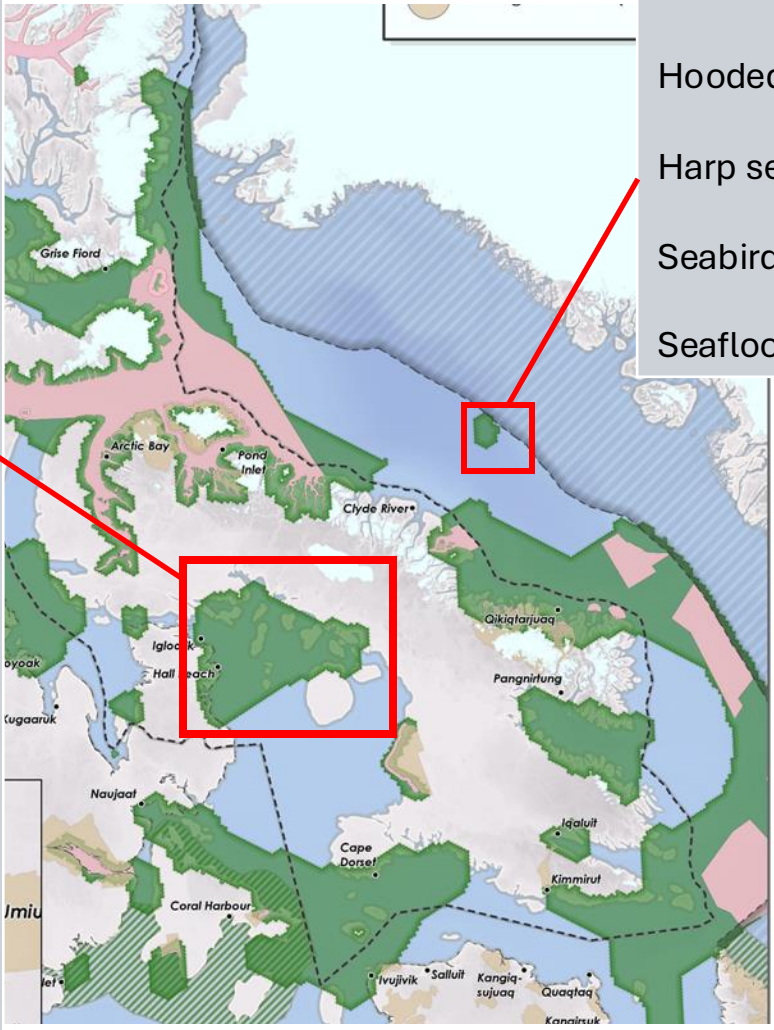
# CanPAC:

Canadian Arctic Marine Priority Areas for Conservation



## Why this area?

- Polar bear denning areas
- Beluga summer habitat
- Bowhead summer habitat
- Narwhal summer habitat
- Walrus haulout sites
- Walrus winter habitat
- Hooded seal habitat
- Harp seal habitat
- Bearded seal habitat
- Ringed seal habitat
- Arctic char
- Important Bird Areas
- Several types of coastal and seafloor habitat



## Why this area?

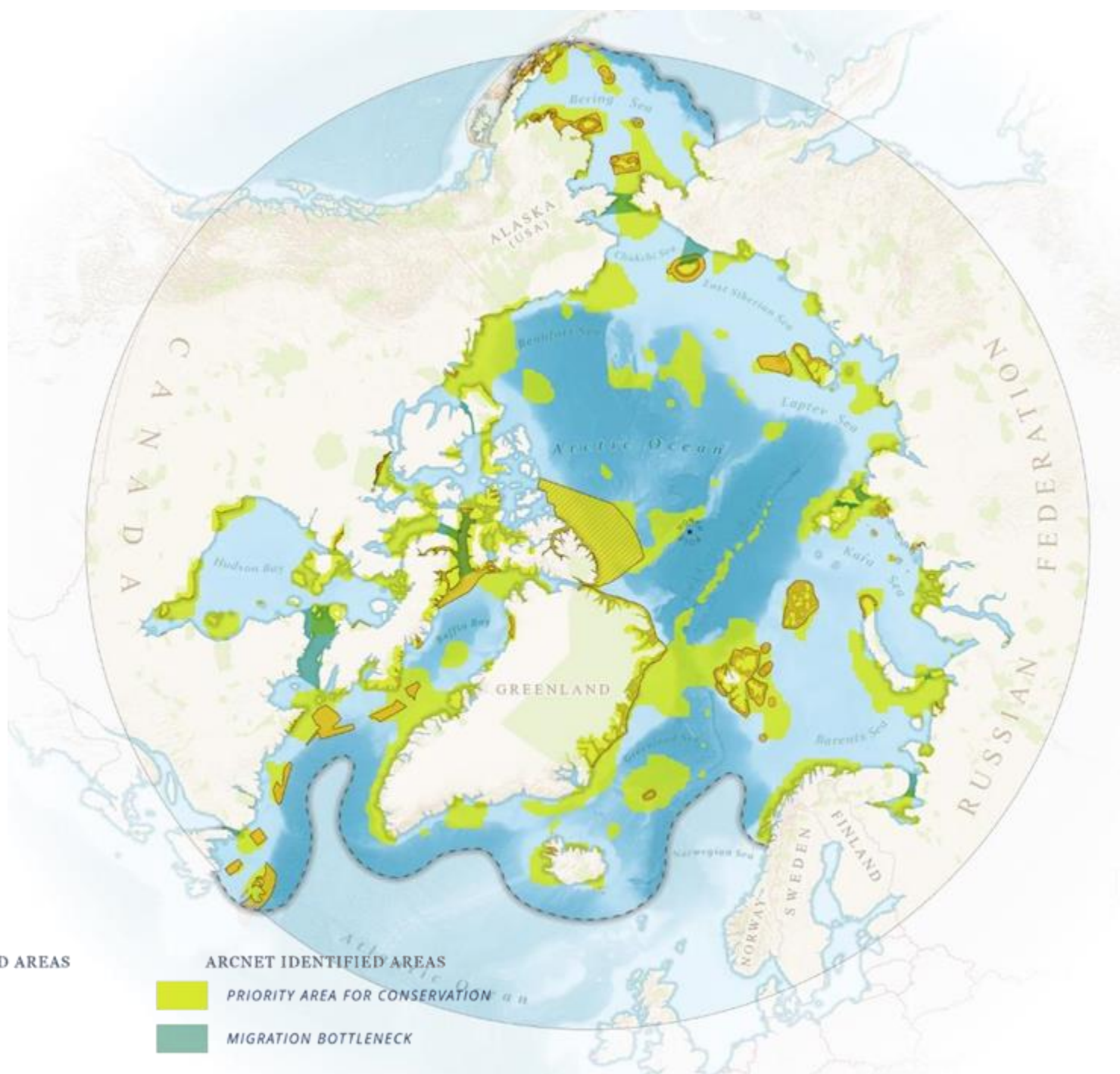
- Narwhal winter habitat
- Hooded seal feeding area
- Harp seal feeding area
- Seabird hotspot
- Seafloor habitat



# ArcNet

An Arctic Ocean Network of  
Priority Areas for Conservation

[arcnetocean.org](http://arcnetocean.org)



## ArcNet MAP LEGEND

AN ARCTIC OCEAN NETWORK OF  
PRIORITY AREAS FOR CONSERVATION



ArcNet  
BOUNDARY

0 250 500 1,000 km

### EXISTING PROTECTED AREAS



TERRESTRIAL

MARINE

### ARCNET IDENTIFIED AREAS



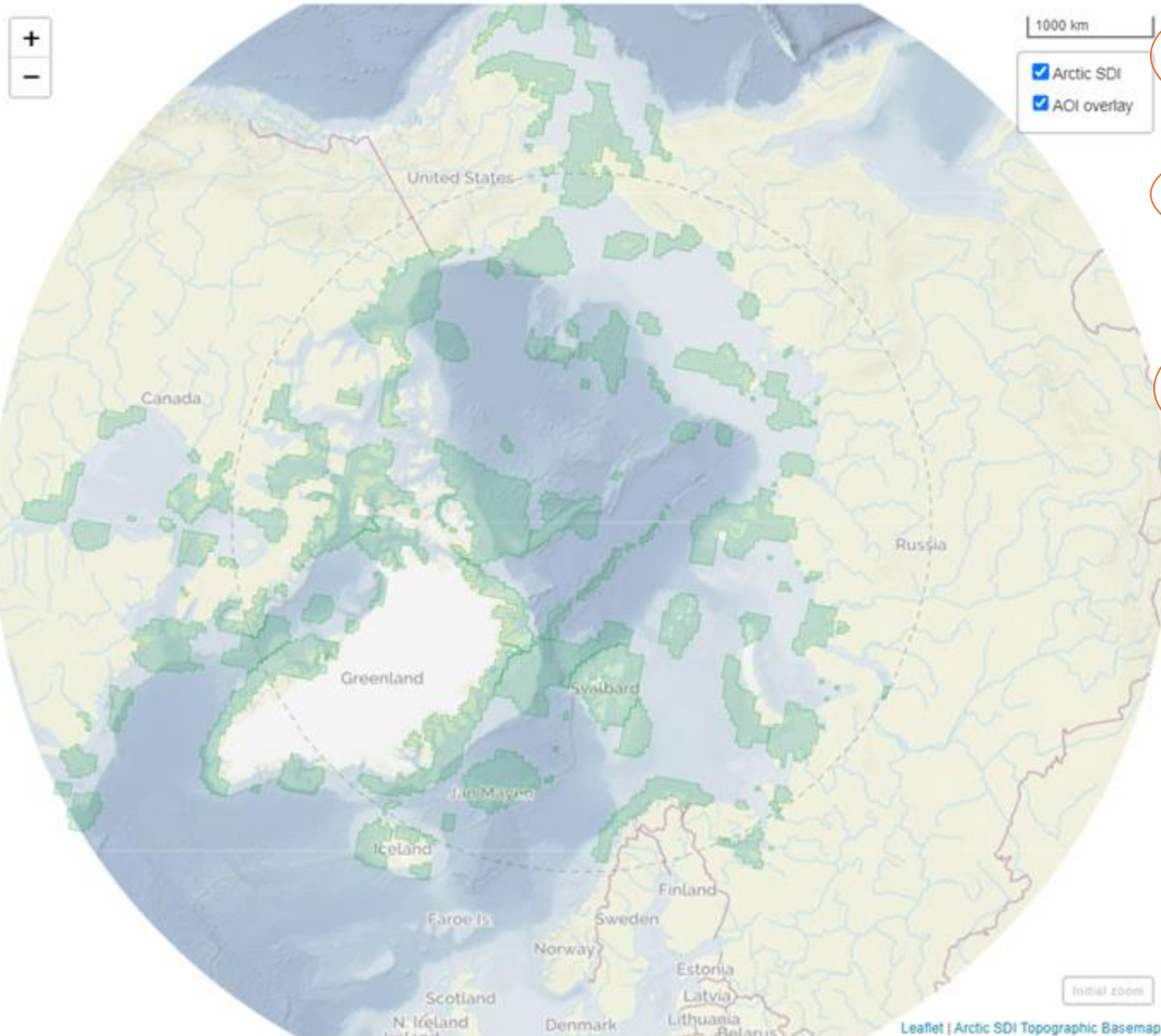
PRIORITY AREA FOR CONSERVATION

MIGRATION BOTTLENECK

To explore, go to [www.arcnetocean.org/tools](http://www.arcnetocean.org/tools), select Geranium

**Geranium** Decision support and visualisation tool for the Arctic Seas conservation planners

WWF ArcNet



1000 km

Arctic SDI  
 AOI overlay

**Select Area of Interest (AOI)**

Projection: Europe  
Spatial query: ArcNet Priority Areas for Conservation  
Omit small CF coverage, %: 3

**Select Industrial Activities (IA)**

Activity group: Industrial activities  
All groups | All industrial activities

**Select Conservation Features (CF)**

All CF groups: All conservation groups | All species and communities | All habitats and biotopes  
Individual CFs: All conservation features

**Select analysis parameter**

Time of year: Whole year  
Epoch: To 2025  
Analysis type: Conservation Concern

Quick review result in map (left)

Indexes maps: Do not show  
Geranium profile: Basic (ArcNet)

**View Analysis Results**

Overview for ArcNet domain | ArcNet domain Details

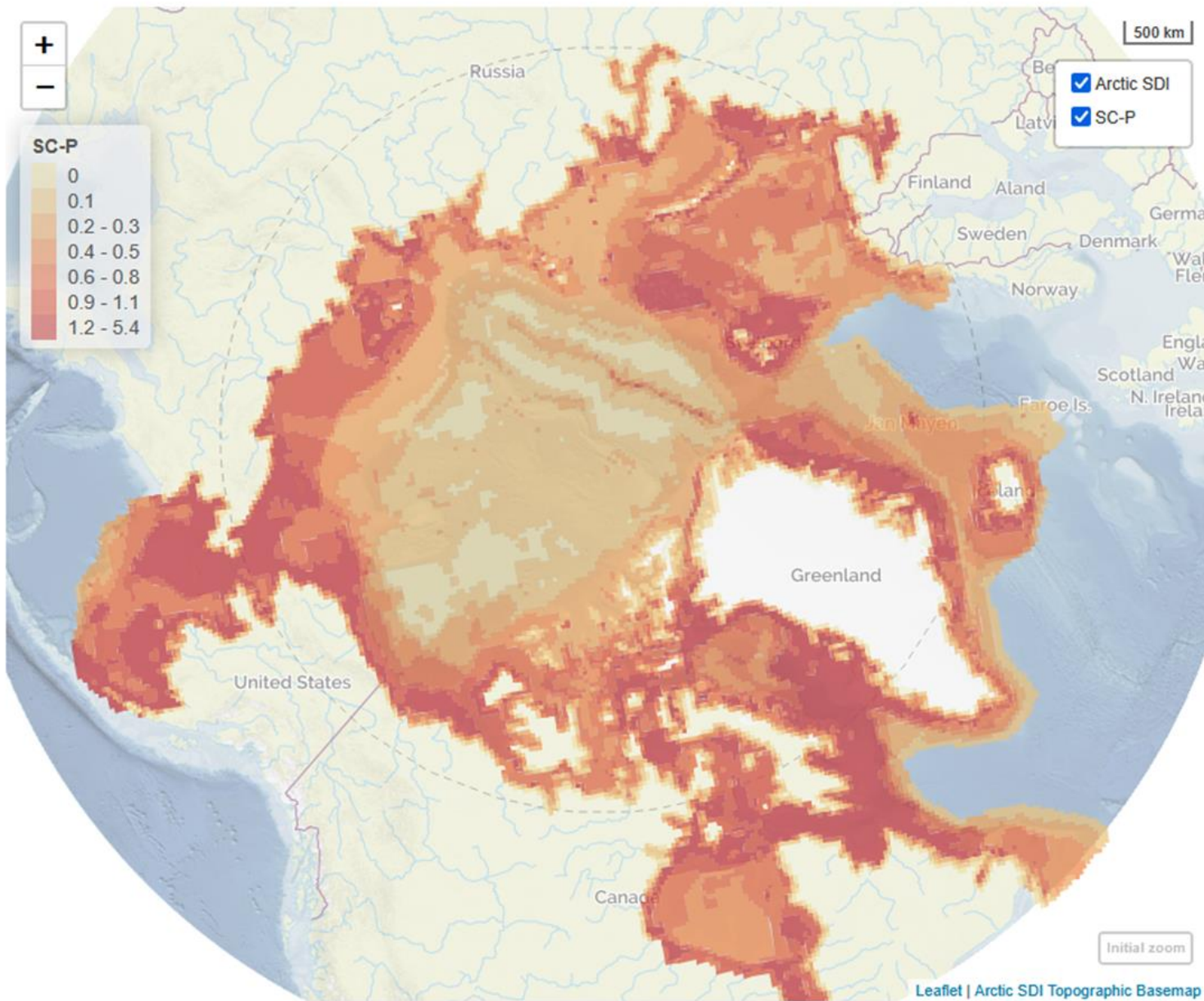
**More Information**

All Industrial Activities | All Conservation Features

Leaflet | Arctic SDI Topographic Basemap



ArcNet domain





# Shaping how we share Arctic shipping insights



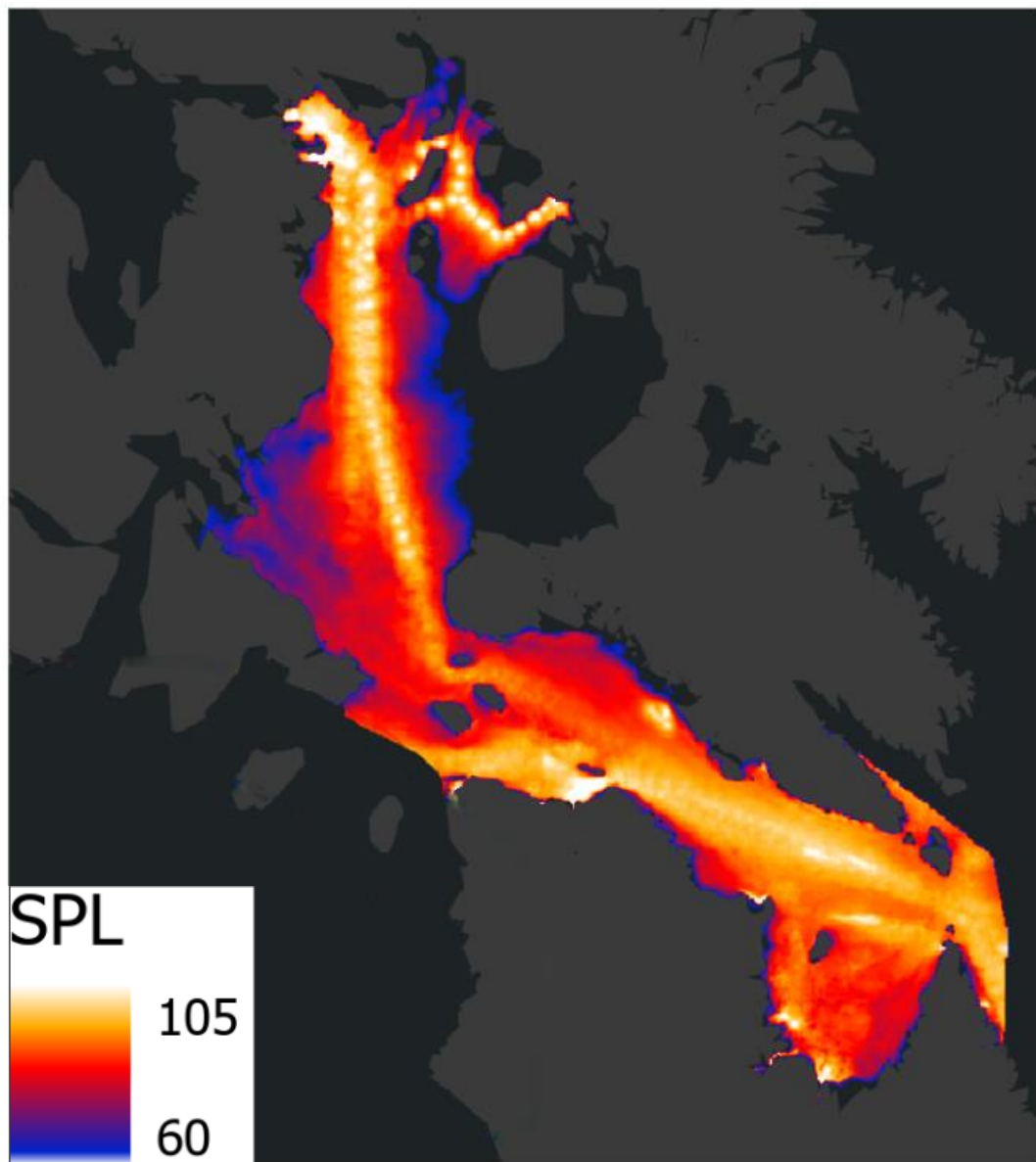
An initiative to make shipping-related data and insights more frequent, useful, and accessible for Arctic communities and partners.

Examples of insights we can share:

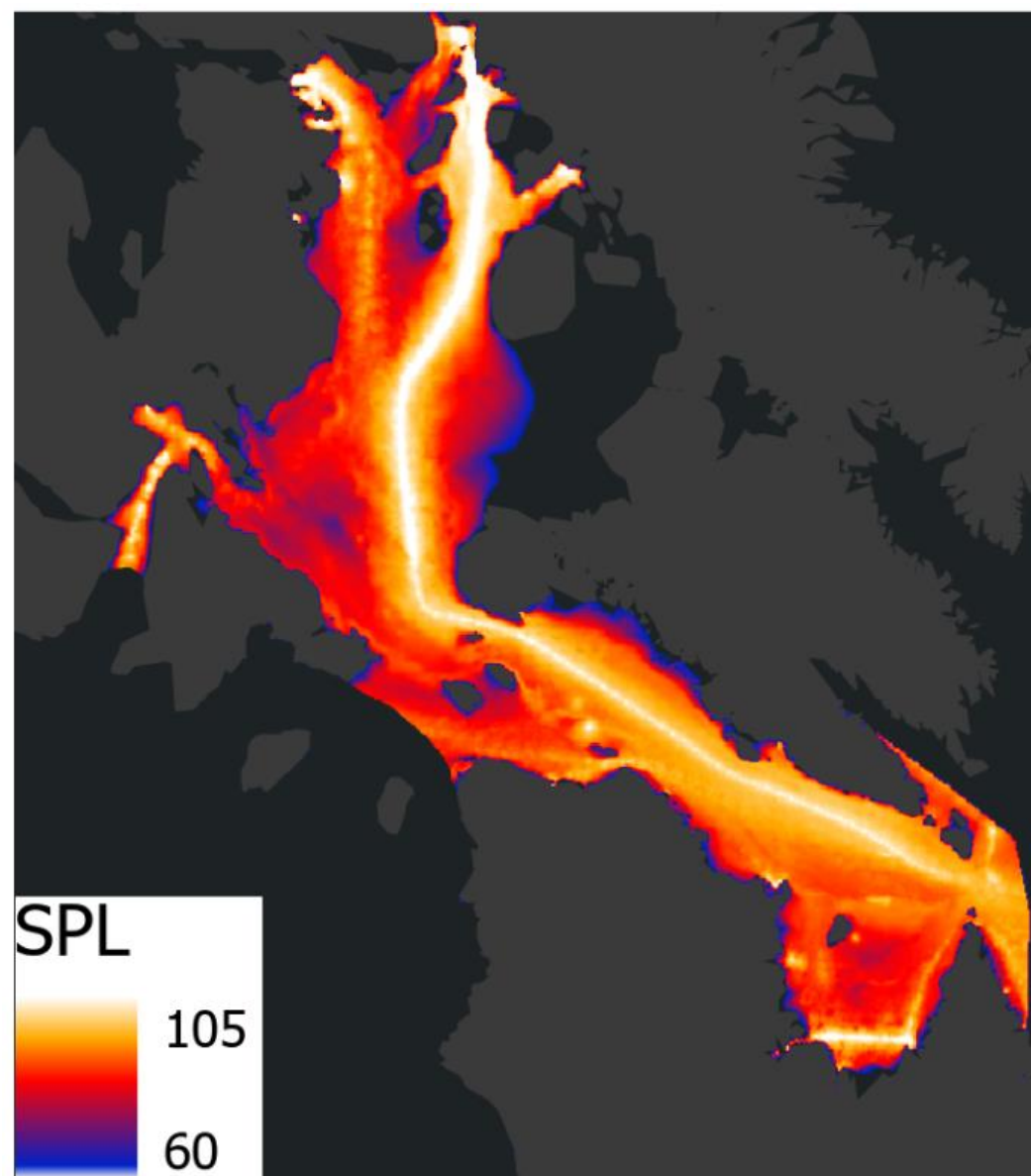
- What ships are operating in Nunavut and other parts of the Canadian Arctic.
- Where these ships are from.
- How much sewage and greywater they are discharging.
- How fast they are going.

Results can be at fine resolution, down to 25 km<sup>2</sup>.

2019

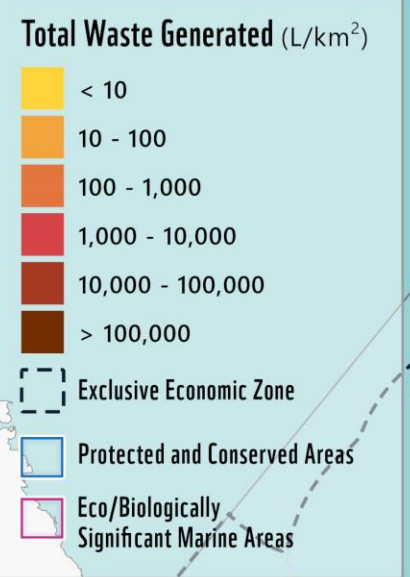


2030

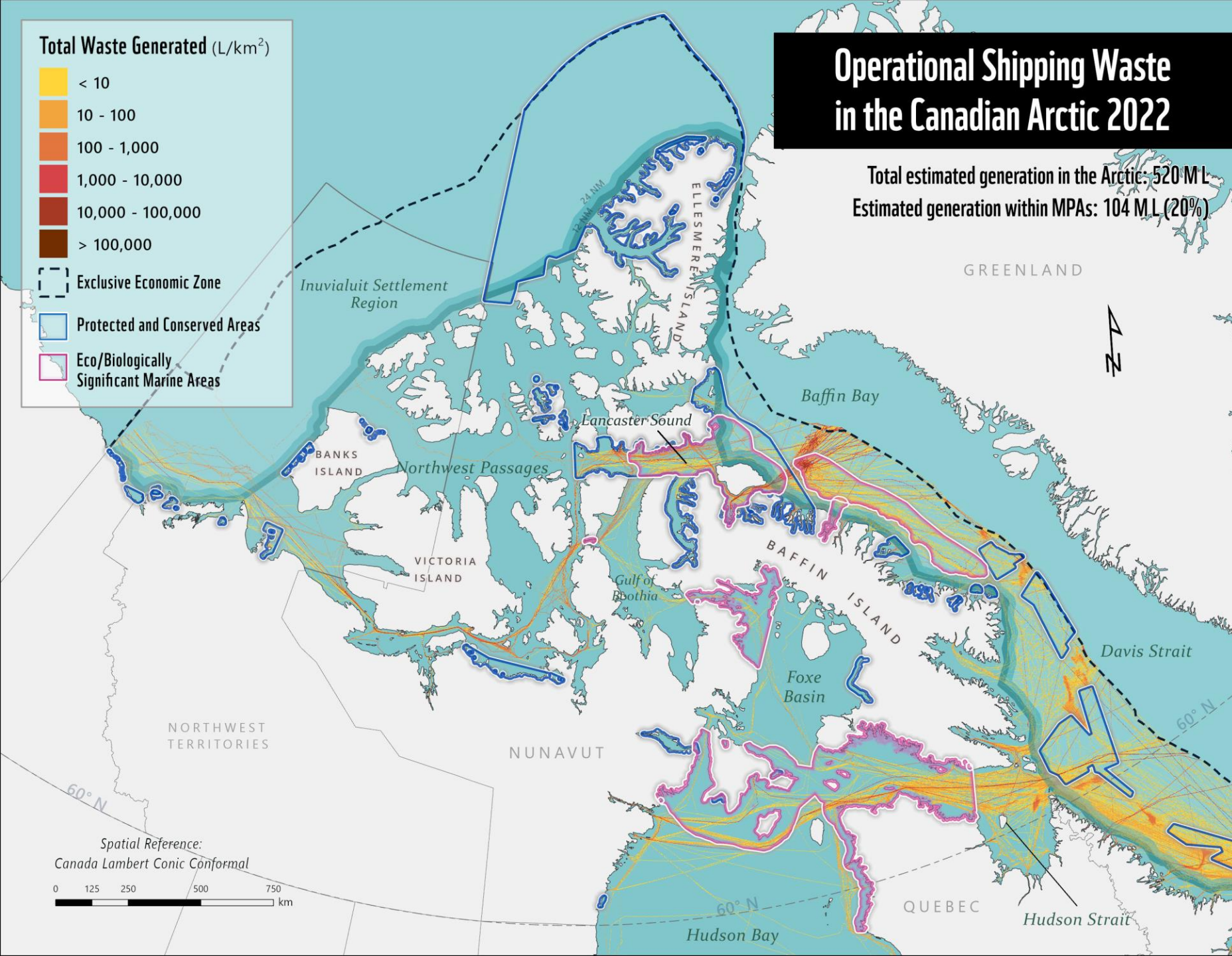




# Operational Shipping Waste in the Canadian Arctic 2022



Total estimated generation in the Arctic: 520 ML  
Estimated generation within MPAs: 104 ML (20%)



Estimated volumes and geographic distribution of greywater, sewage, and scrubber washwater from ships in 2022 (WWF-Canada's *Updated National Vessel Dumping Assessment, 2025, in press*).

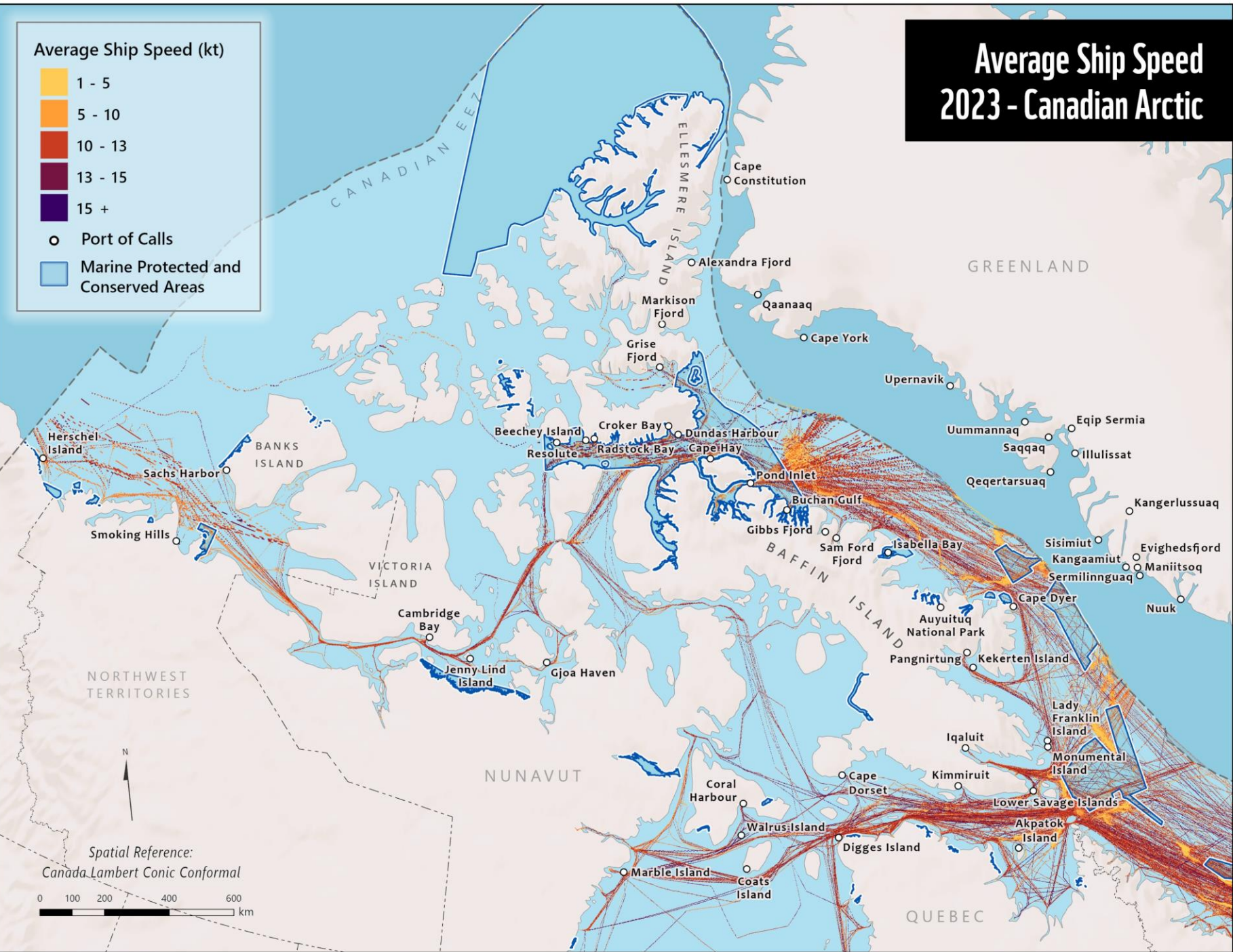


# Average Ship Speed 2023 - Canadian Arctic

Average Ship Speed (kt)



- Port of Calls
- Marine Protected and Conserved Areas



Ship speeds in 2023 (WWF-Canada's National Vessel Speed Assessment, 2025, in press).



Thank you!

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[www.arcnetocean.org](http://www.arcnetocean.org)

[www.wwf.ca](http://www.wwf.ca)