



# DEVELOPMENTS IN THE CANADIAN ARCTIC

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### PREPARED BY

Embassy of Canada to Finland  
Global Affairs Canada

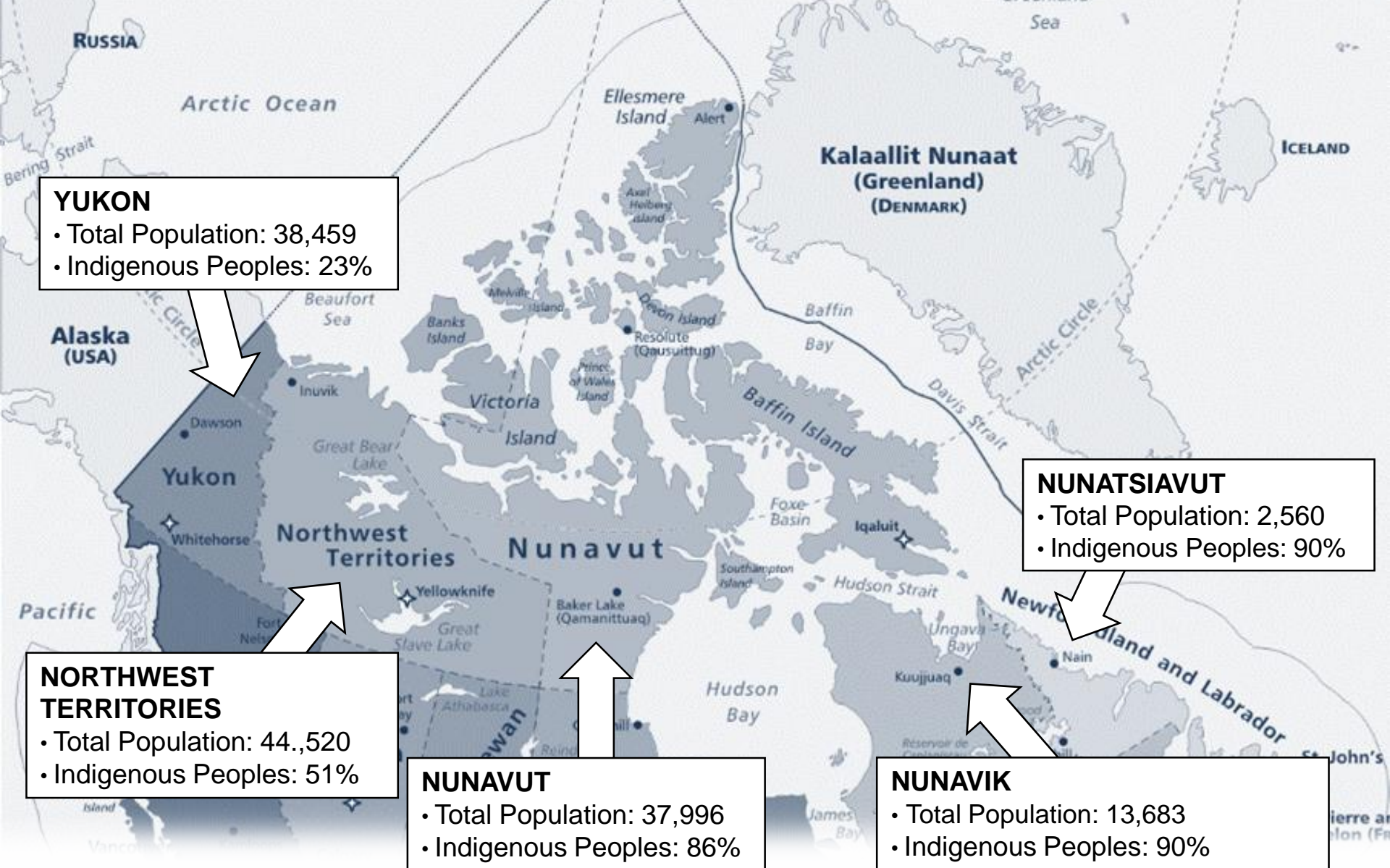


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*Canada's North is home to over 130,000 Canadians and is 40% of Canada's land mass.*

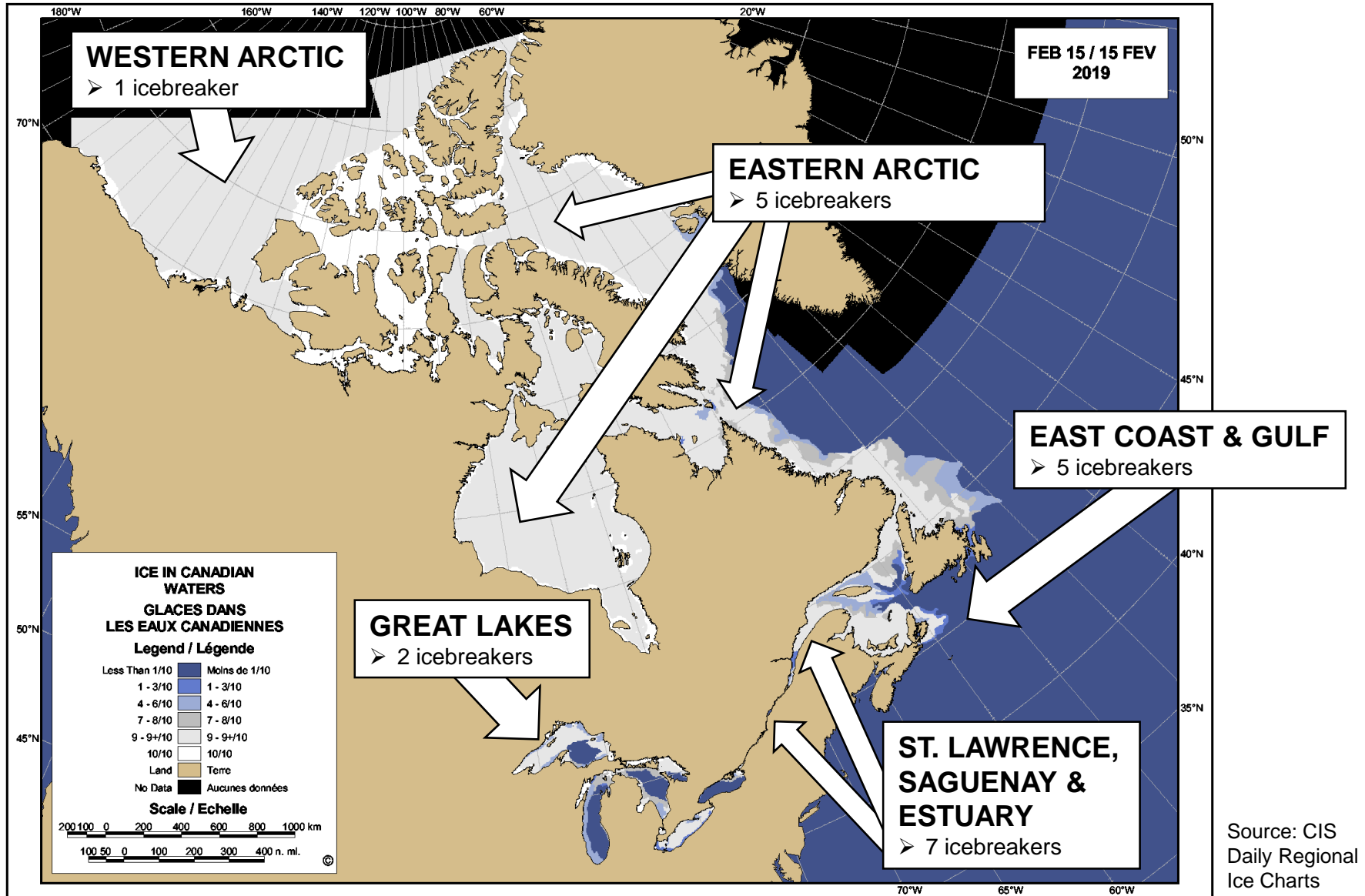
# Arctic & Northern Policy Framework

## Priority Areas

- Strong Arctic people and communities
- Arctic science and Indigenous knowledge
- Protecting the environment and preserving Arctic biodiversity
- Strong, sustainable and diversified Arctic economies
- Comprehensive Arctic infrastructure
- Safety, security and defence
- Global Arctic leadership



# Canada's Icebreaking Needs





# Canada's Current Icebreaking Fleet

## Heavy Icebreakers

CCGS Louis S. St-Laurent  
CCGS Terry Fox

## Medium Icebreakers

CCGS Amundsen  
(dedicated to Science in the  
summer in the Arctic)  
CCGS Captain Molly Kool  
CCGS Des Groseilliers  
CCGS Henry Larsen  
CCGS Pierre Radisson

## Air Cushioned Vehicles

CCGS Mamilossa  
CCGS Sipu Muin

## Light Icebreakers

### High Endurance Multi-Tasked Vessels

CCGS Ann Harvey  
CCGS Edward Cornwallis  
CCGS Georges R. Pearkes  
CCGS Griffon  
CCGS Martha L. Black  
CCGS Sir Wilfrid Laurier  
CCGS Sir William Alexander

### Medium Endurance Multi- Tasked Vessels

CCGS Earl Grey  
CCGS Samuel Risley



# The National Shipbuilding Strategy

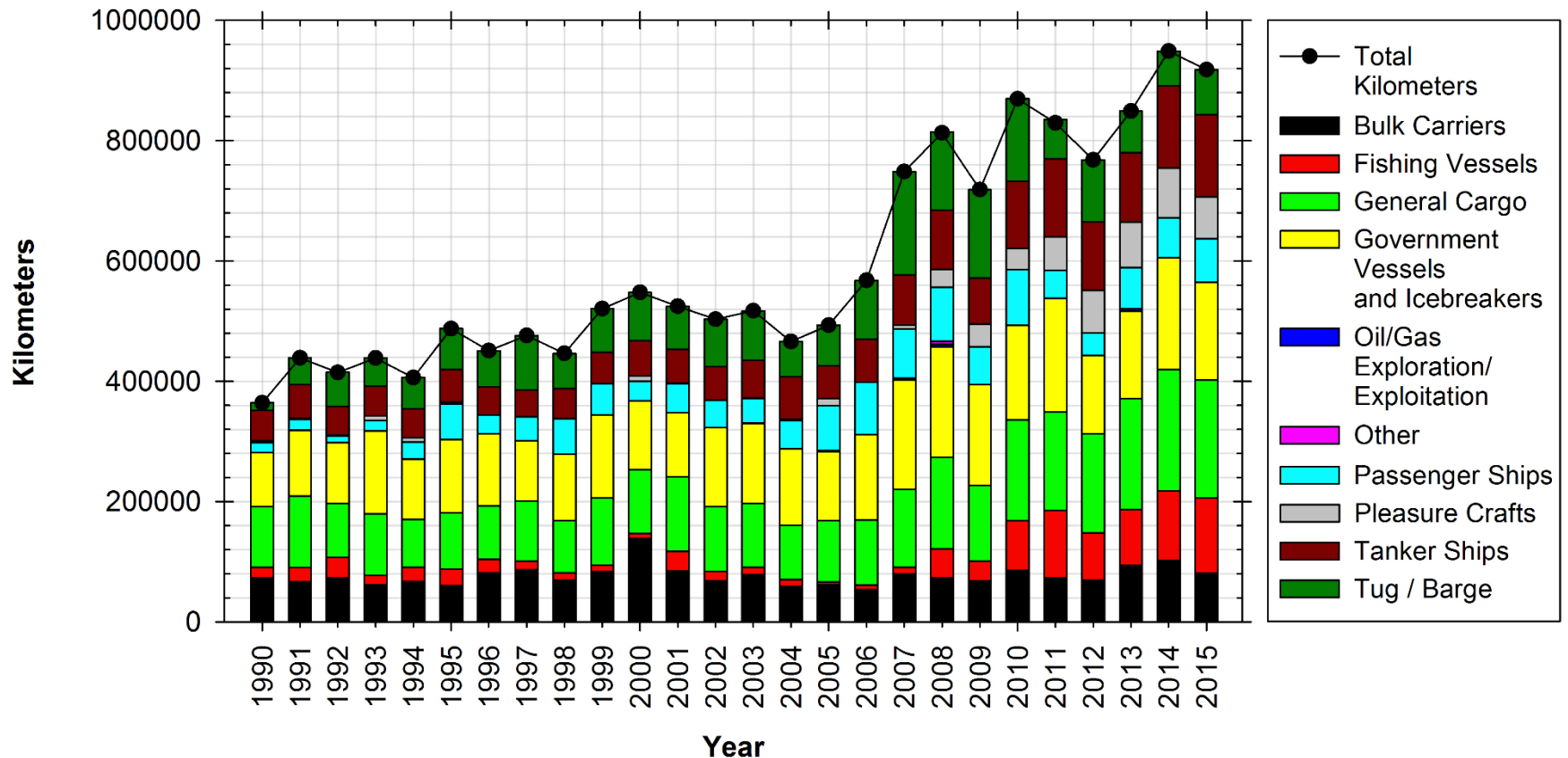


Photo Credit: Wikipedia Creative Commons

Illustrative drawing of a polar icebreaker planned to be built at Seaspan's Vancouver Shipyards Co. Ltd. to enhance on-water capability in the Arctic year-round.

# Arctic Activities Are Increasing

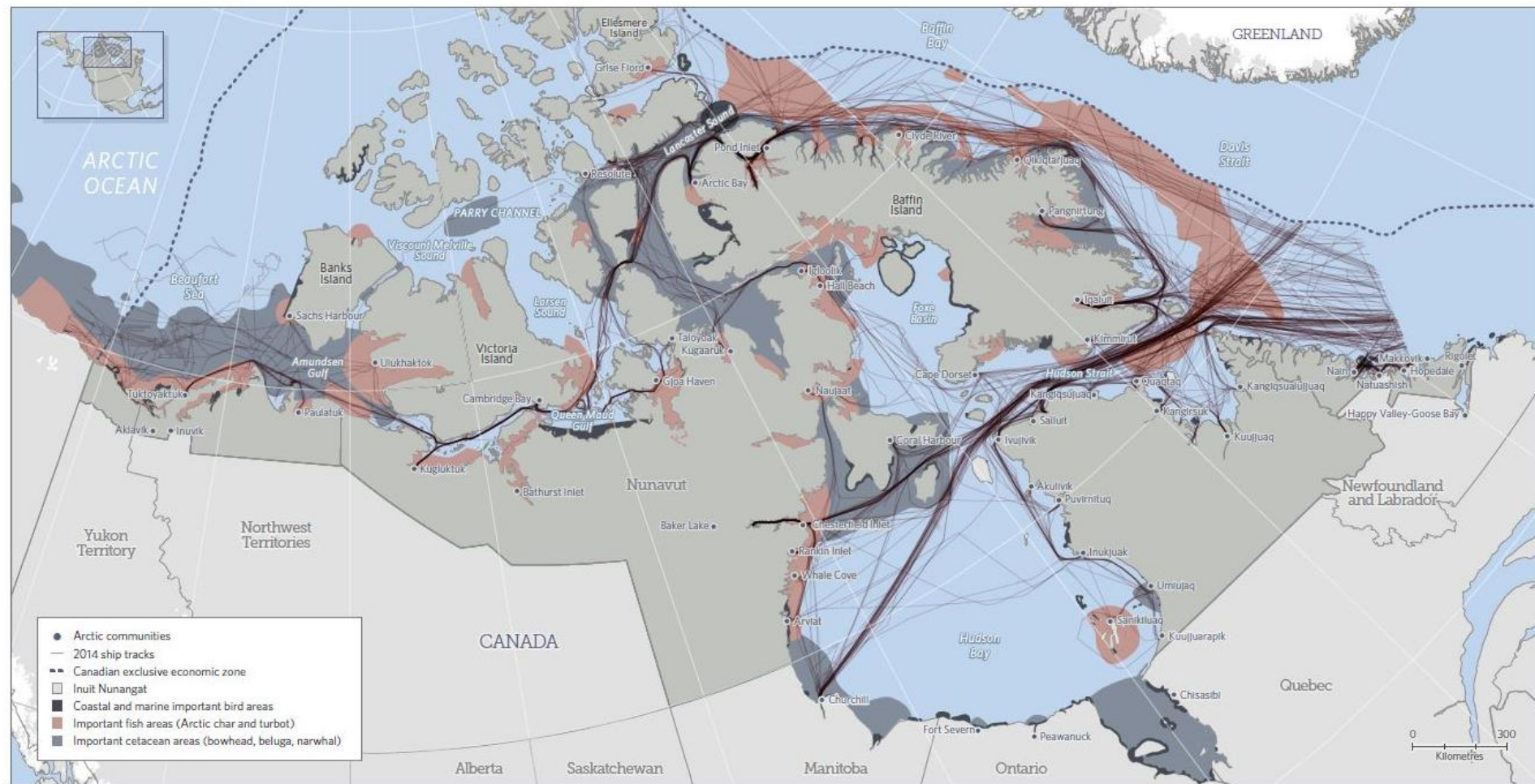
Total kilometres traveled annually by all vessel types in the Canadian Arctic 1990-2015





# Safer Navigation in Canada's Waters

Canada's Arctic Passageways Are Shared by Ships and Wildlife  
Vessel, whale, fish, and bird movements



Sources: Important Bird Areas Canada, [http://www.ibacanada.ca/explore\\_how.jsp?lang=EN](http://www.ibacanada.ca/explore_how.jsp?lang=EN); Fisheries and Oceans Canada, 2010 Arctic Marine Workshop, <http://www.dfo-mpo.gc.ca/Library/341178.pdf>; Bureau of Ocean Energy Management, *Satellite Tracking of Bowhead Whales* (2013), <http://www.data.boem.gov/PV/PDFImages/ESPIS/s/5343.pdf>; exactAIS Archive, *Satellite AIS Data—Arctic*, <http://www.exactearth.com>; Flanders Marine Institute, *VIZ Maritime Boundaries Geodatabase*, accessed Sept. 4, 2015, <http://www.marineregions.org>

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# Safer Resupply in Arctic Communities

Photo Credit: Brand Canada Library



Approximately 95% of goods in the North are carried by ships, including the majority of natural resources leaving the Arctic, as well as the re-supply of essential goods to northern communities. Arctic shipping is challenged by remoteness, ice conditions, and scarce marine infrastructure.

# Proactive monitoring and response capacity on water with the objectives of:

- *24/7 Emergency response capacity*
- *Canadian Coast Guard to take command in marine emergencies*
- *Increase Canadian Coast Guard towing capacity*
- *Modern response equipment*
- *New logistics depot*
- *Increase on-scene environmental response*
- *Expand duties and training of the Canadian Coast Guard Auxiliary*
- *Increase search and rescue capacity*





# The Future of the Canadian Arctic



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Canada will invest \$1.5 billion to keep Canadian waters and coasts safe and clean for today's use and for future generations.



# THANK YOU



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