



Fisheries and Oceans
Canada

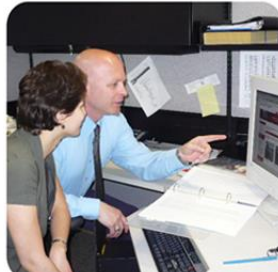
Pêches et Océans
Canada

Canadian
Coast Guard

Garde côtière
canadienne



Safety First, Service Always



Search and Rescue in the Canadian Arctic – Working with Indigenous and Northern Partners

Arctic Shipping Summit
March 12, 2020

Canada 

Canadian Coast Guard (CCG): Who We Are & What We Do



Operating as Canada's only national civilian fleet, we provide a wide variety of programs & services to the population & to the maritime industry on important levels:



Deliver programs & services to the population to ensure safe & accessible waterways & to facilitate maritime commerce

Provide vessels & helicopters to enable fisheries enforcement activities, & the on-water science research for Fisheries and Oceans Canada & other science departments

Support maritime security activities



Who We Are & What We Do

ON AVERAGE, EVERY DAY
**CANADIAN
COAST GUARD
EMPLOYEES WILL:**

- **COORDINATE:**
THE RESPONSE TO **19** SEARCH AND
RESCUE INCIDENTS ASSISTING **68**
PEOPLE AND SAVING **18** LIVES.



MANAGE 1,233 VESSEL MOVEMENTS IN VESSEL TRAFFIC
ZONES TO INCREASE SAFETY AND PROTECT THE ENVIRONMENT



CARRY 11
FISHERIES PATROLS



SUPPORT 8
SCIENTIFIC SURVEYS



SUPPORT 3
HYDROGRAPHIC MISSIONS



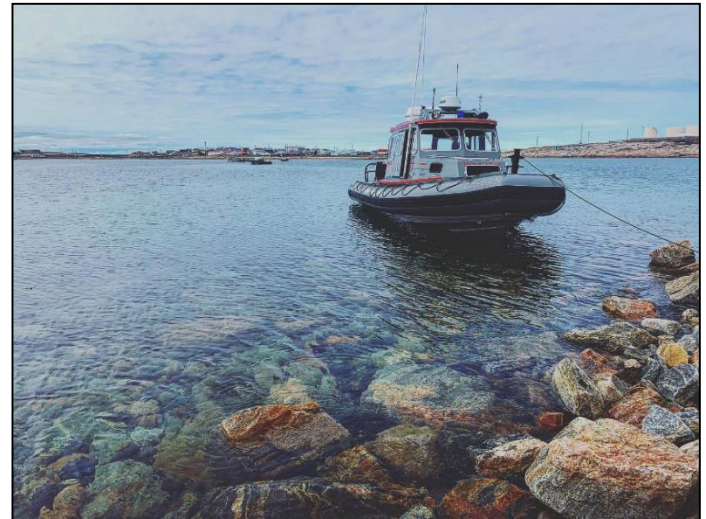
RESPOND TO 3
ENVIRONMENTAL
POLLUTION REPORTS



COAST GUARD IS:
4500 EMPLOYEES
114 SHIPS
23 HELICOPTERS
17000 AIDS TO SAFE AND EFFICIENT SHIPPING ACROSS CANADA

Engagement on the New Arctic Region

- On October 24, 2018 new Coast Guard and DFO Arctic Regions were announced
- Extensive engagements with Inuit, First Nations and Métis organizations has occurred
- Comments were received on the creation of new Arctic Regions, its priorities and services, boundaries, and program delivery
- **What We Heard** report was prepared and distributed to key partners
- On-going engagement is a key principle in our new approach with the Arctic regions



What We've Heard



Increase capacity,
service delivery
and presence of
DFO and Coast
Guard programs
and services in
the North



Include
Indigenous
knowledge
in decision
making



Policy
making
needs to be
led from the
North by
Northerners



Remove
employment
barriers and
create job
opportunities
in Northern
communities



Co-develop
Climate change
adaptation
strategies



Canadian Coast Guard Programs & Services



**Marine Aids to
Navigation**



**Icebreaking
Operations &
Escort**



Maritime Security



**Marine
Communications
& Services**



**Environmental
Response**



**Waterways
Management**



**Marine Search &
Rescue**

Canadian Coast Guard Dedicated SAR Assets



42 SAR Stations

26 seasonal IRB stations

1 hovercraft station with 1 dive team

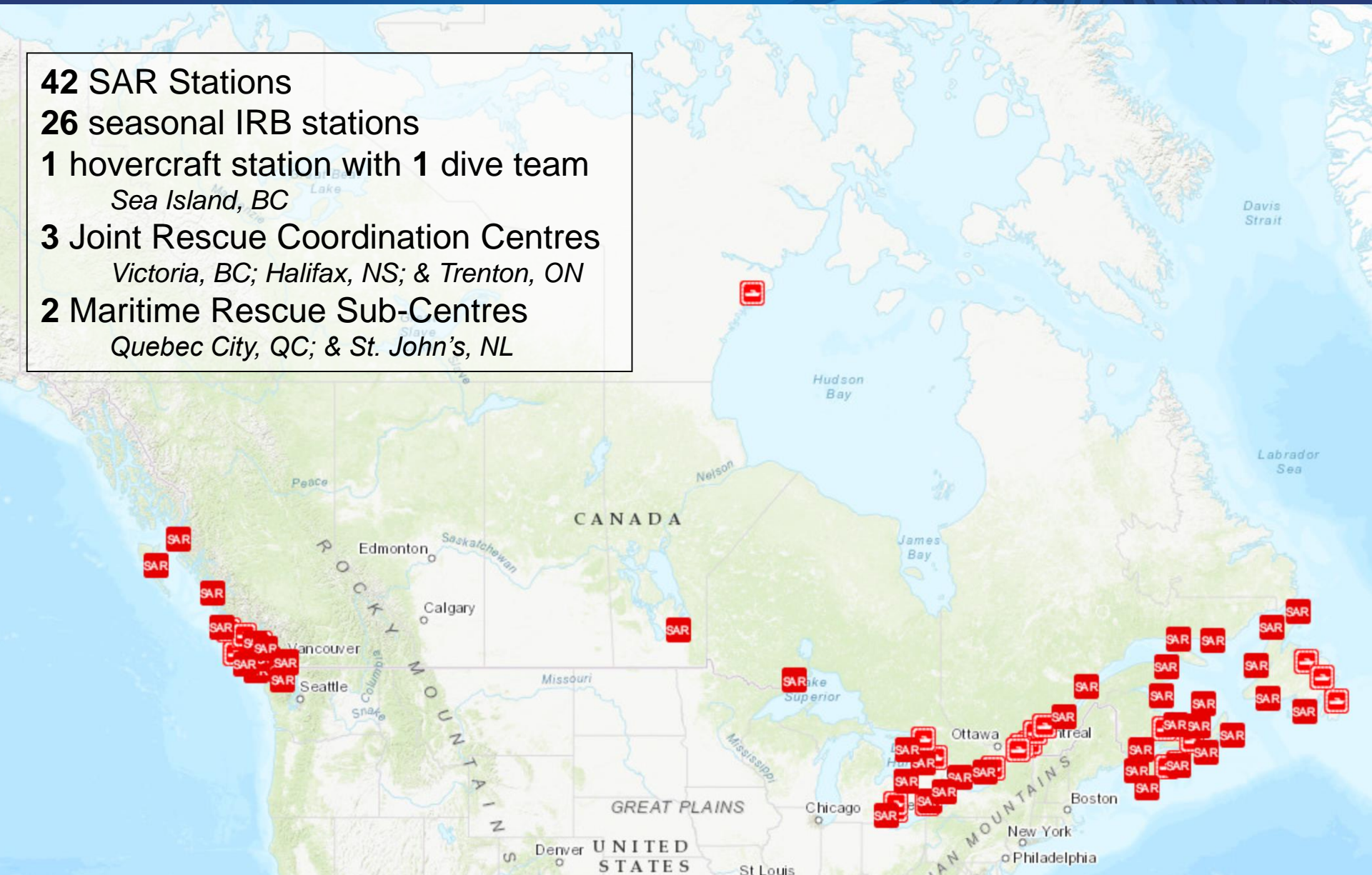
Sea Island, BC

3 Joint Rescue Coordination Centres

Victoria, BC; Halifax, NS; & Trenton, ON

2 Maritime Rescue Sub-Centres

Quebec City, QC; & St. John's, NL



Search & Rescue

SAR Response Assets - Arctic



CCG Icebreakers



CCG Helicopters



**Department of
National Defence**



**Canadian Coast
Guard Auxiliary**



**Royal Canadian
Navy**



**Nunavut &
Nunavik SAR**



**Vessels of
Opportunity**

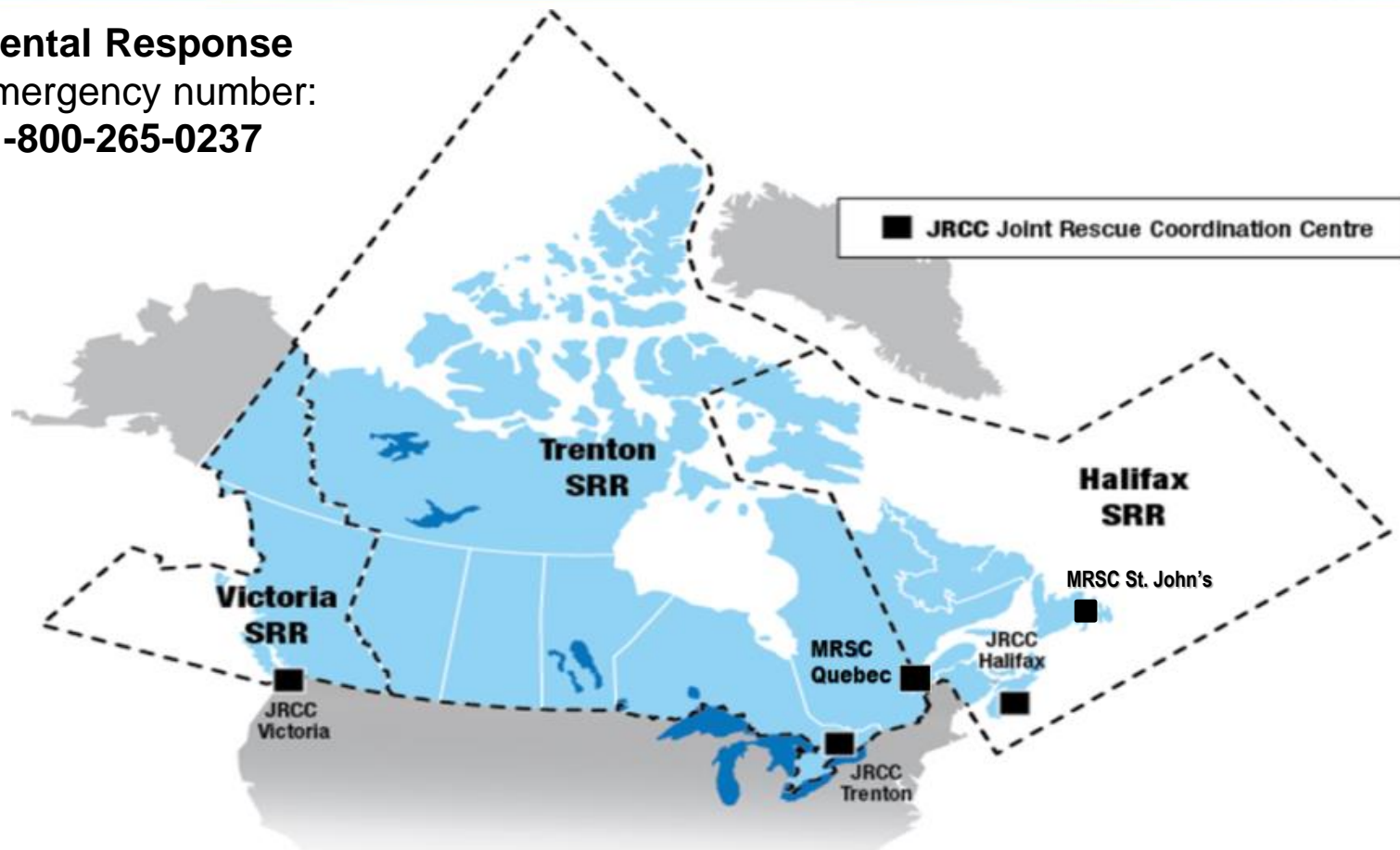
In Case of an Emergency: Who Do You Call?



Environmental Response

24-hour emergency number:

Toll-free: **1-800-265-0237**



SAR - JRCC Trenton

24-hour emergency number:

Toll-free: **1-800-267-7270**

Email: jrcctrenton@sarnet.dnd.ca

SAR - JRCC Halifax

24-hour emergency number:

Toll-free: **1-800-565-1582**

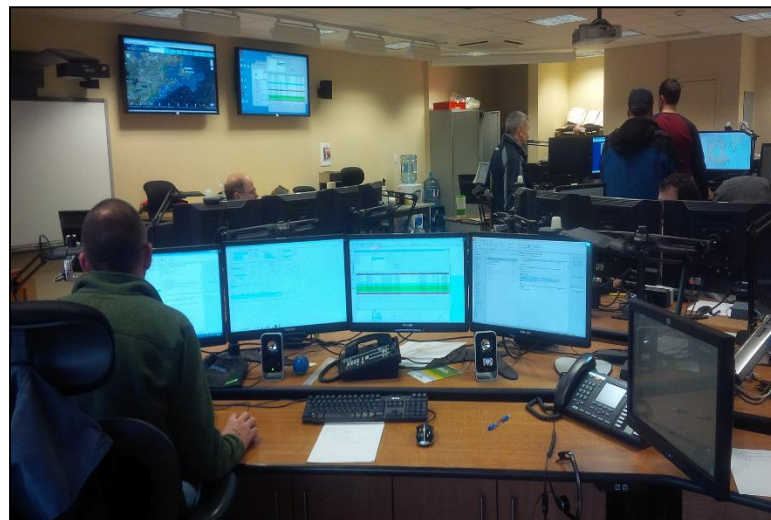
Email: jrcchalifax@sarnet.dnd.ca

Joint Rescue Coordination Centre (JRCC): Responsibilities



- Coordinate, control & conduct **aeronautical & maritime** SAR operations
- Coordinate SAR unit responses to **humanitarian** SAR incidents in accordance with national policies and regional directives

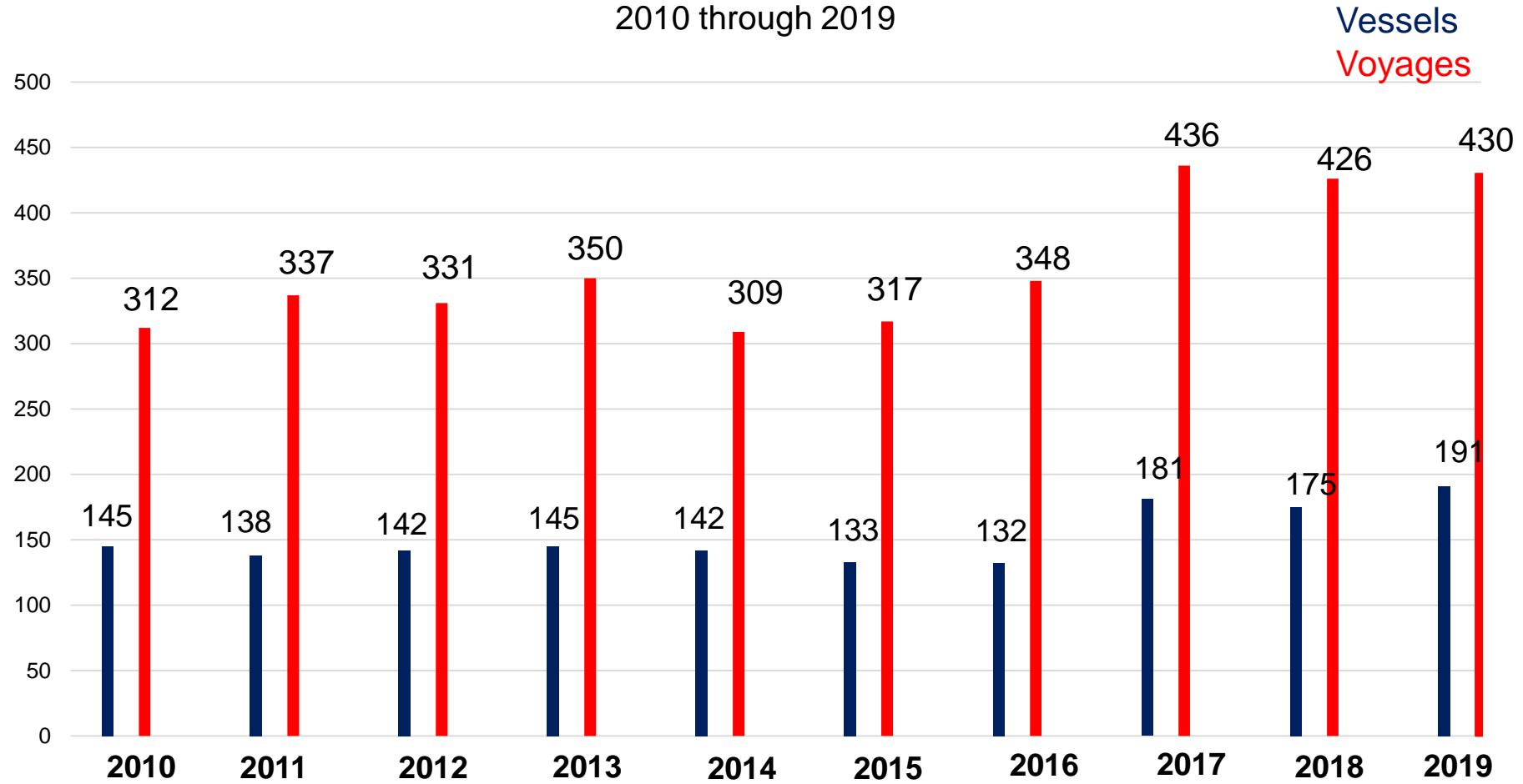
2018 Stats	Incident Type			Grand Total
	Air	Humanitarian	Marine	
JRCC Halifax	538	223	1,762	2,523
JRCC Trenton	965	323	2,433	3,721
JRCC Victoria	368	446	1,872	2,686
Grand Total	1,871	992	6,067	8,930



JRCC Halifax

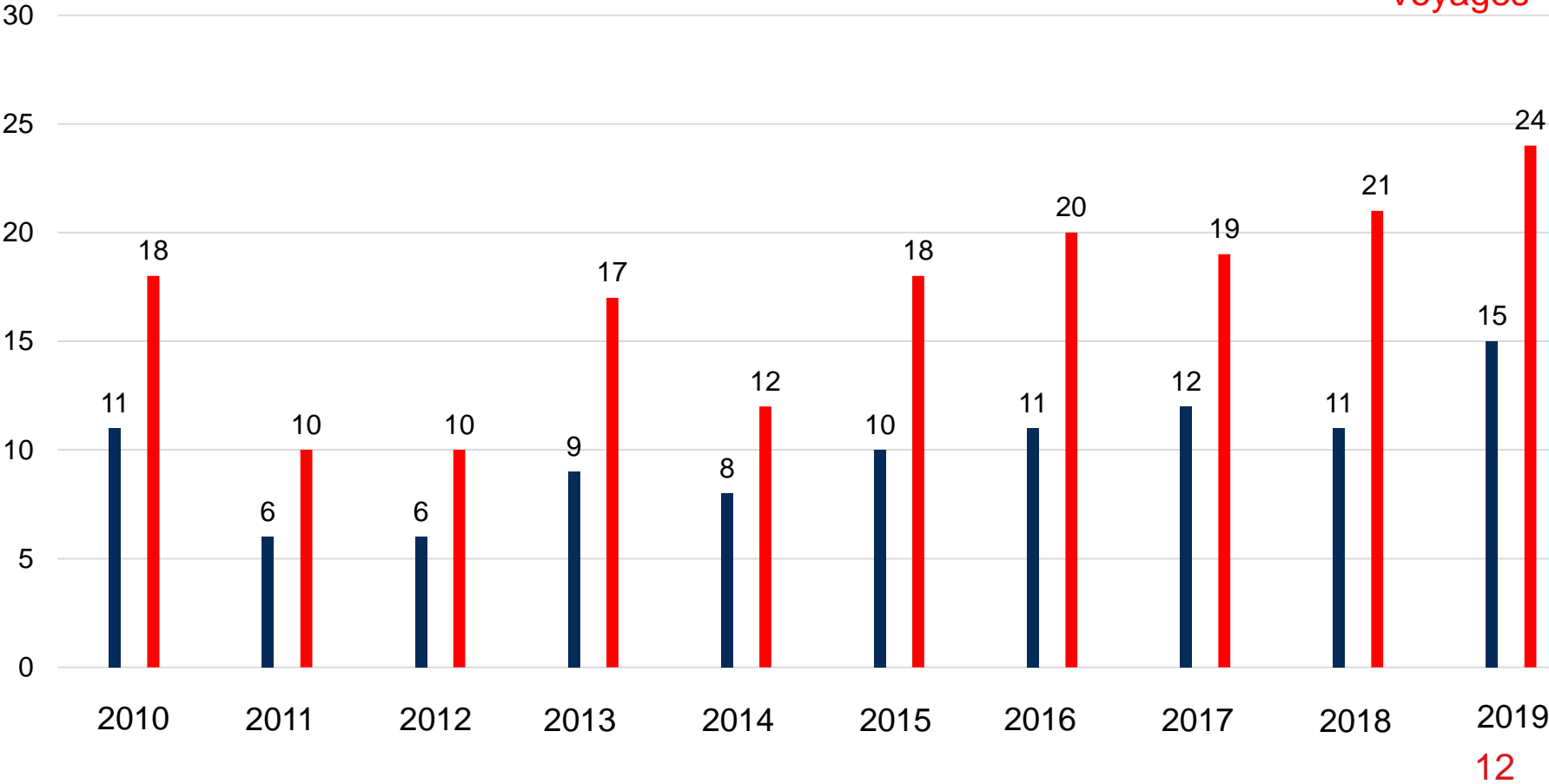


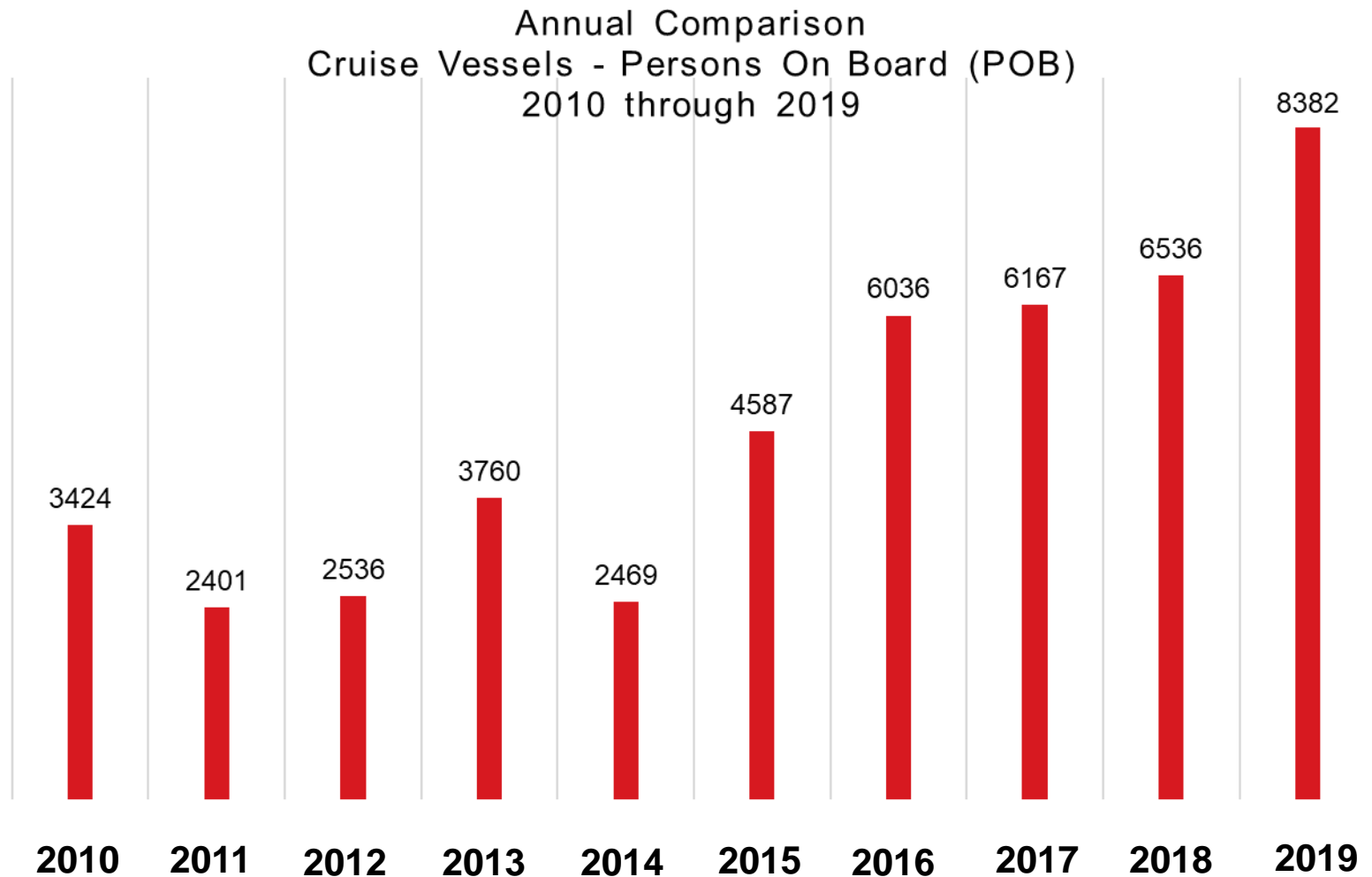
Annual Comparison - Number of Vessels & Voyages
2010 through 2019



Annual Comparison
Number of Cruise Vessels & Voyages
2010 through 2019

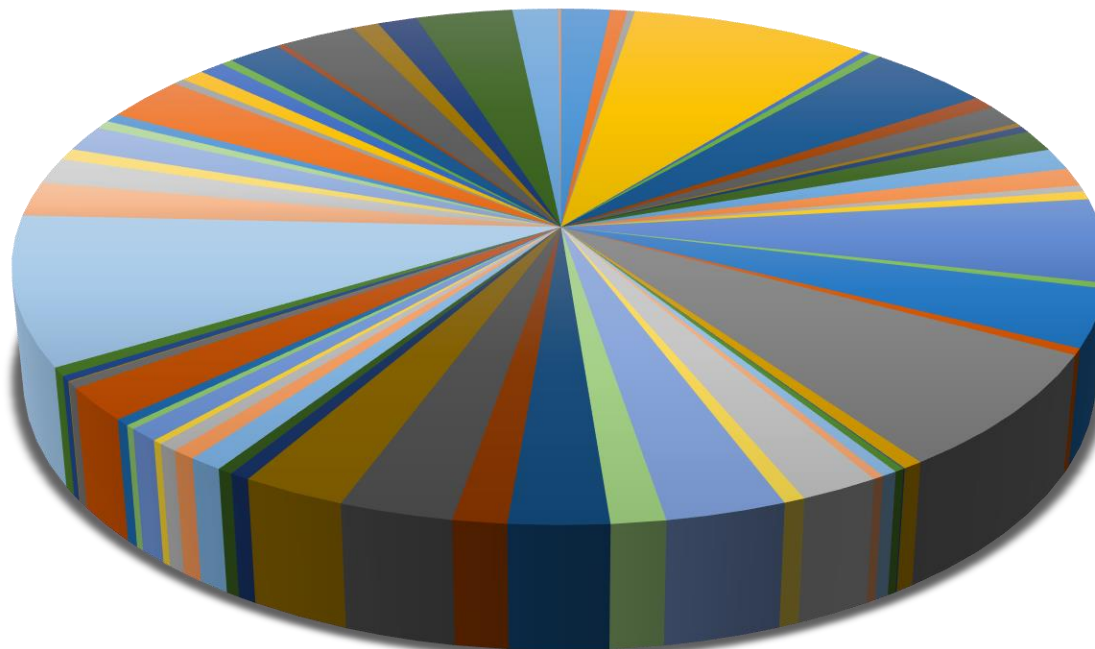
Vessels
Voyages





*Note: includes both passengers & crewmembers

Cruise Vessels: Passenger / Crew Movements - 2019

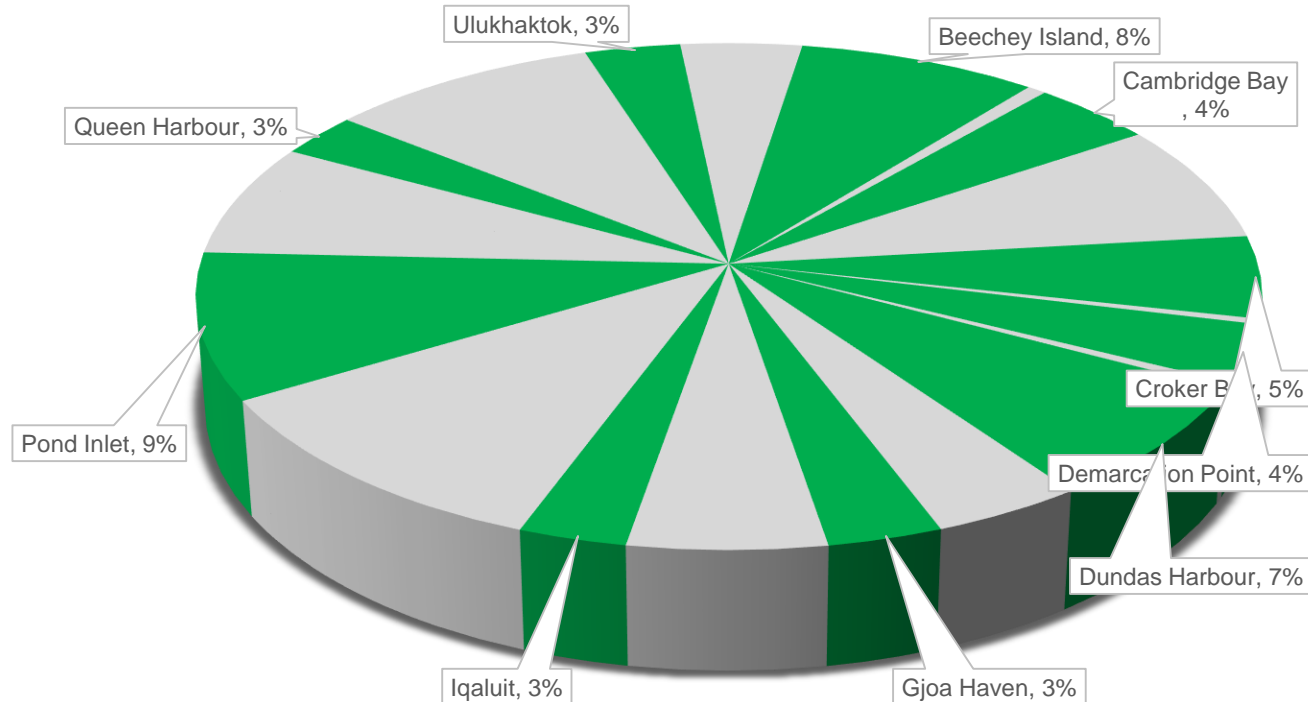


Akpatok Island	Arctic Bay	Beecher Point	Beechey Island	Blanley Bay	Button Island	Cambridge Bay	Cape Dorset
Cape Fitzroy	Cape Graham Moore	Cape Mercy	Caswall Tower	Clyde River	Coburg Island	Coral Harbour	Craig Harbour
Croker Bay	Cunningham Glacier	Demarcation Point	Digges Island	Dundas Harbour	Edinburgh Island	Emerson Island	Erebus
Erik Cove	Fairman Point	Fort Ross	Fury Beach	Gjoa Haven	Grise Fiord	Halfway Island	Hershell Island
Iqaluit	Jenny Lind Island	Jesse Harbour	Kimmirut	King Point	Kitigtung	Kivitoo Point	Kugluktuk
Lower Savage Islands	Maxwell Bay	Michael Point	Monumental Island	Pangnirtung	Pattinson Harbour	Pearce Point Harbour	Pim Island
Pond Inlet	Pond Inlet (Icy Arm)	Port Epworth	Port Leopold	Prince Leopold Island	Qariaraqyuk	Qikiqtarjuaq	Queen Harbour
Refuge Harbour	Resolute Bay	Ross Point	Savage Point	Scallon Cove	Sirmilik Glacier	Smoking Hills	Taloyoak
Tasmania Islands	Ulukhaktok	Walker Arm Glacier	Weld Harbour				



Cruise Vessels: Passenger / Crew Movements - 2019

Location	Total Visitors (2019)	Percentage (of seasonal total)
Pond Inlet	7,172	9.32%
Beechey Island	6,332	8.23%
Dundas Harbour	5,669	7.37%
Croker Bay	4,038	5.25%
Cambridge Bay	3,242	4.21%
Demarcation Point	2,787	3.62%
Ulukhaktok	2,529	3.29%
Gjoa Haven	2,388	3.10%
Iqaluit	2,250	2.92%
Queen Harbour	2,145	2.79%



Total Passenger / Crew Movements in 2019: 76,968
Top 10 Destinations Represent: 38,552 (50.1%)

Background: Canadian Coast Guard Arctic Auxiliary Expansion Project



- In 2015, the Canadian Coast Guard led a two-year Arctic SAR project to assess marine risks in coastal Arctic waters & to expand Canadian Coast Guard Auxiliary's presence in the Arctic.
- Prior to launching this project, the Canadian Coast Guard Auxiliary operated 7 community-based units on the Arctic Ocean & two Arctic inland units
- Currently there are Auxiliary units in 17 Arctic communities (+3 forthcoming in 2020)

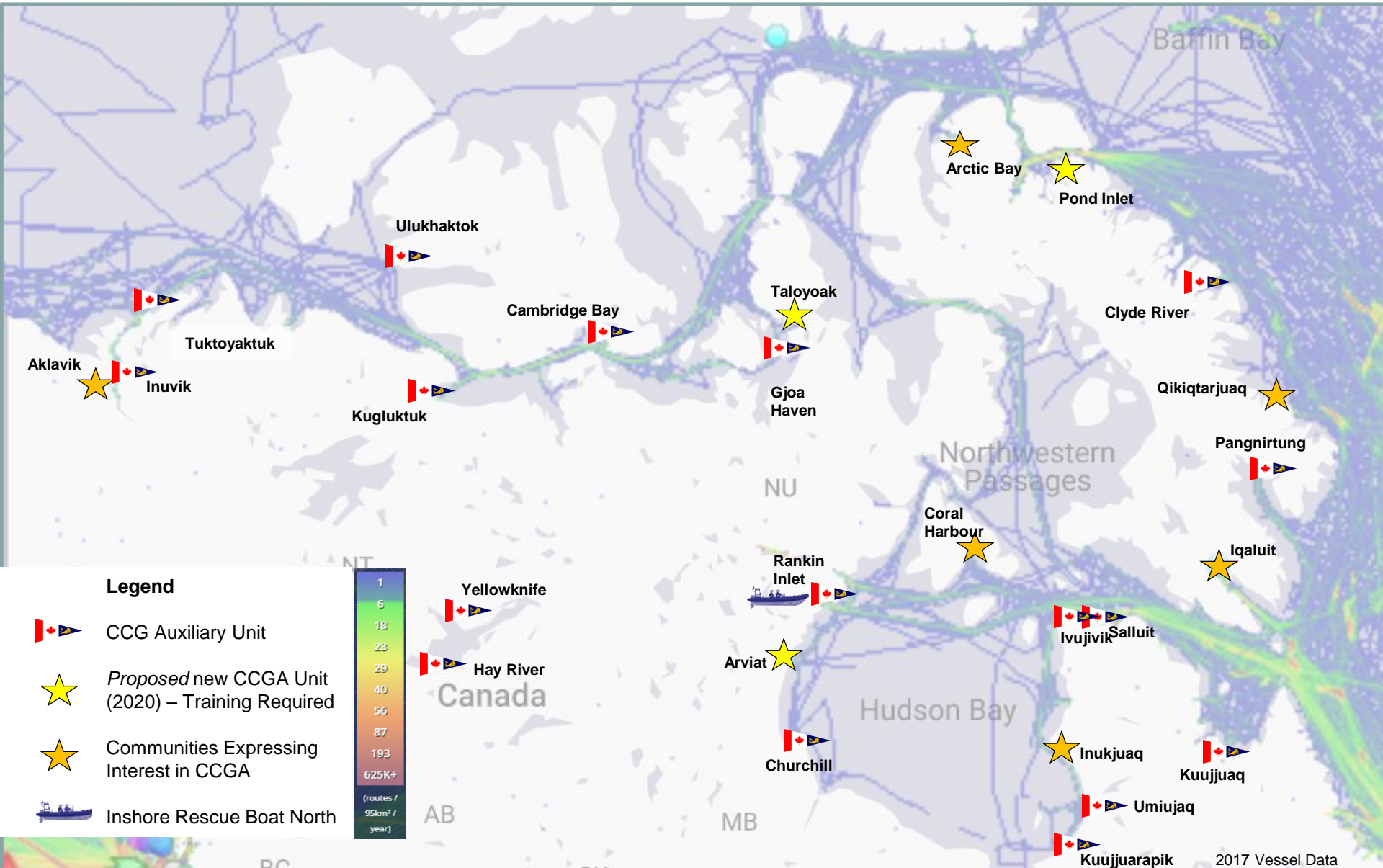
Kimmirut, NU – Population: 425



Ulukhaktok, NT – Population: 500



Background CCG Arctic Resources

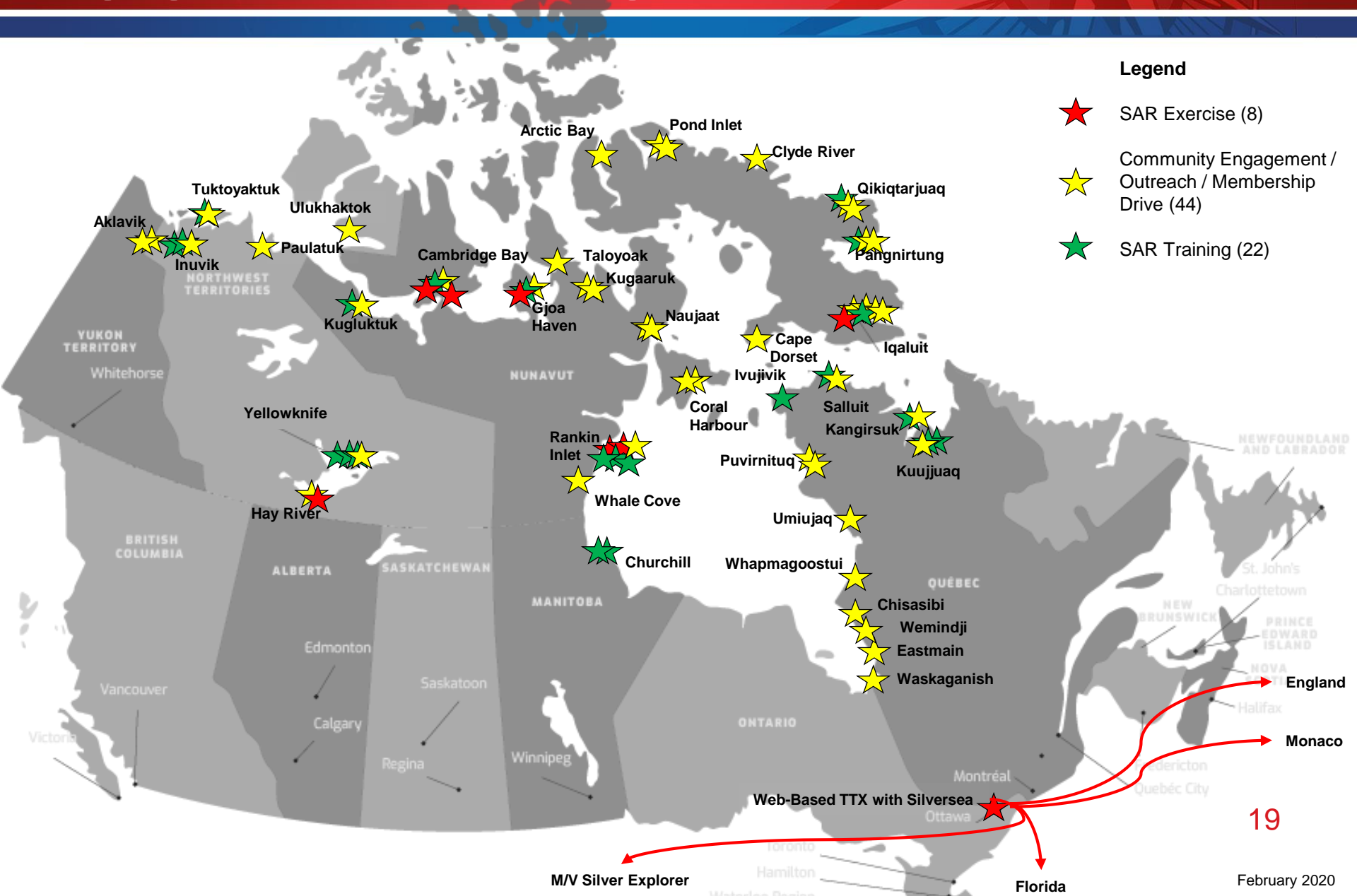


CCG SAR Partners: Inuit, First Nations, and Métis



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CCG: Arctic Region SAR Engagement & Training Activities (Jan 2019 - Present)



CCG Activities for SAR Prevention

Arctic Community Engagement & Exercising Teams (ACEET)



- Communities Visited: 22
- SAR Missions: 3
- Total Hours of On-Water Training: 60
- Total Hours of Exercising: 20

Training & Exercising with Industry



- Table Top Exercises: 4
- Live Exercises: 1
- Operators Contacted: 10

Arctic Community Engagement & Exercising Teams



Members: 6 (3 crews of 2)

Role:

Provide training & exercising support to CCGA, & assist with membership recruitment initiatives

Highlights: SAR case assistance:

- Salluit, QC
- Ivujivik, QC
- Pond Inlet, NU

Communities Visited:

Aklavik, NT	Kugluktuk, NU
Coral Harbour, NU	Nauyasat, NU
Churchill, MB	Pangnirtung, NU
Gjoa Haven, NU	Pond Inlet, NU
Hay River, NT	Puvirnituq, QC
Inuvik, NT	Qikiqtarjuaq, NU
Iqaluit, NU	Rankin Inlet, NU
Ivujivik, QC	Salluit, NU
Kangirsuk, QC	Taloyoak, NU
Kugaaruk, NU	Yellowknife, NT



Training & Exercising with Industry



Members: 2 CCG officers

Role:

Provide training & exercising support to cruise industry vessels

Findings from 2019:

- Activation & maintenance of communications within SAR system
- Concern about media attention & brand protection
- Request to develop standard operating practices (SOP) in Canadian Arctic

Live Exercises:

- MS Ocean Endeavour

Table Top Exercises:

- MV Le Boreal (Gjoa Haven)
- MV Silver Explorer (Miami - virtual)
- Government of Nunavut EMO
- Kitikmeot Region SAR Roundtable



Industry Collaboration: Modules



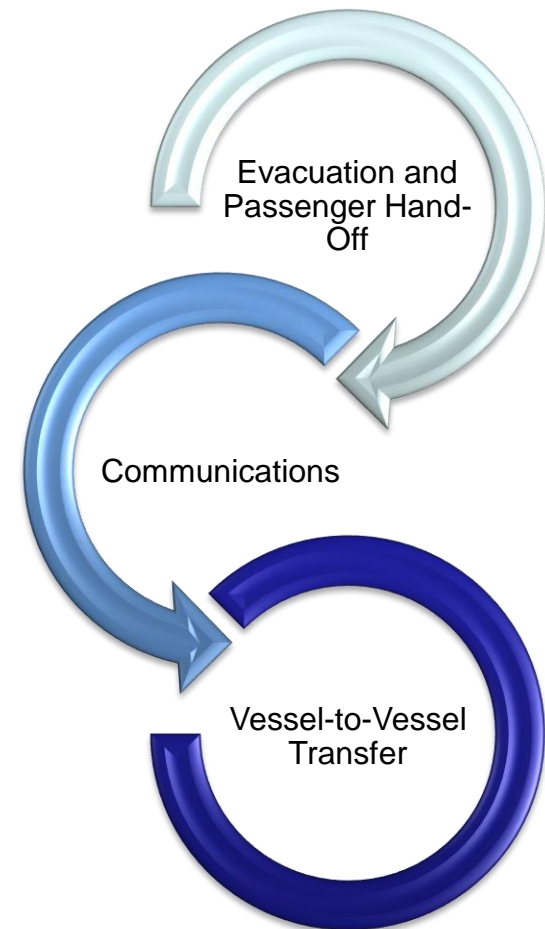
We've developed training modules to address industry concerns for Arctic SAR:

- Evacuation & Passenger Hand-Off
- Communications & Interoperability
- Vessel-to-Vessel Transfer
- Media & Information Control
- Remote Area Evacuation
- Community Coordination & Incident Follow-Up

They can be integrated together to suit industry needs, in both a TTX or Live Exercise setting, at any location of your choosing.

For More Information:

Canadian Coast Guard, Arctic Region
Search & Rescue, Training & Exercise – Industry
Email: arcmero-osmarc@dfo-mpo.gc.ca



Evacuation And Passenger Hand-off

Format: *LiveEx or TTX*

Estimated run-time: *1-2 hours*

Participants: *MRO Officers, Tour Operators, Expedition Leaders, Community Leaders, Government Representatives, Vessel Crew and applicable staff*

Operational Objectives: *Passenger Tracking and Hand-Off*

Tactical Objectives: *Communications, passenger needs-assessment, passenger management, movement logistics, record-keeping/documentation*

Exercise Details

This module is designed to exercise a vessel's passenger tracking plan in the context of a mass rescue operation. This basic exercise will consist of tracking passengers from one location to another and will include at least one passenger hand-off to a responder (ex. EMR, CCG, vessel of opportunity, etc.) taking into account passenger details and condition (nationality, medical situation, NOK info, etc). This exercise is designed to observe the efficiency and effectiveness of the tracking procedure.

For More Information:

Canadian Coast Guard, Arctic Region

Search & Rescue, Training & Exercise – Industry

Email: arcmro-osmarc@dfo-mpo.gc.ca

Questions?



Thank you!

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