

RCN Arctic Operations



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Outline



- RCN Arctic Strategic Objectives & Lines of Effort
- History of Canadian Naval Arctic Operations
- Naval Arctic Operation Challenges
- Forecasted Arctic Marine Traffic 2022
- RCN Arctic Operations 2022
- RCN Northern Engagement & Ship Affiliation
- RCN Arctic Operations Outlook (2023-25)

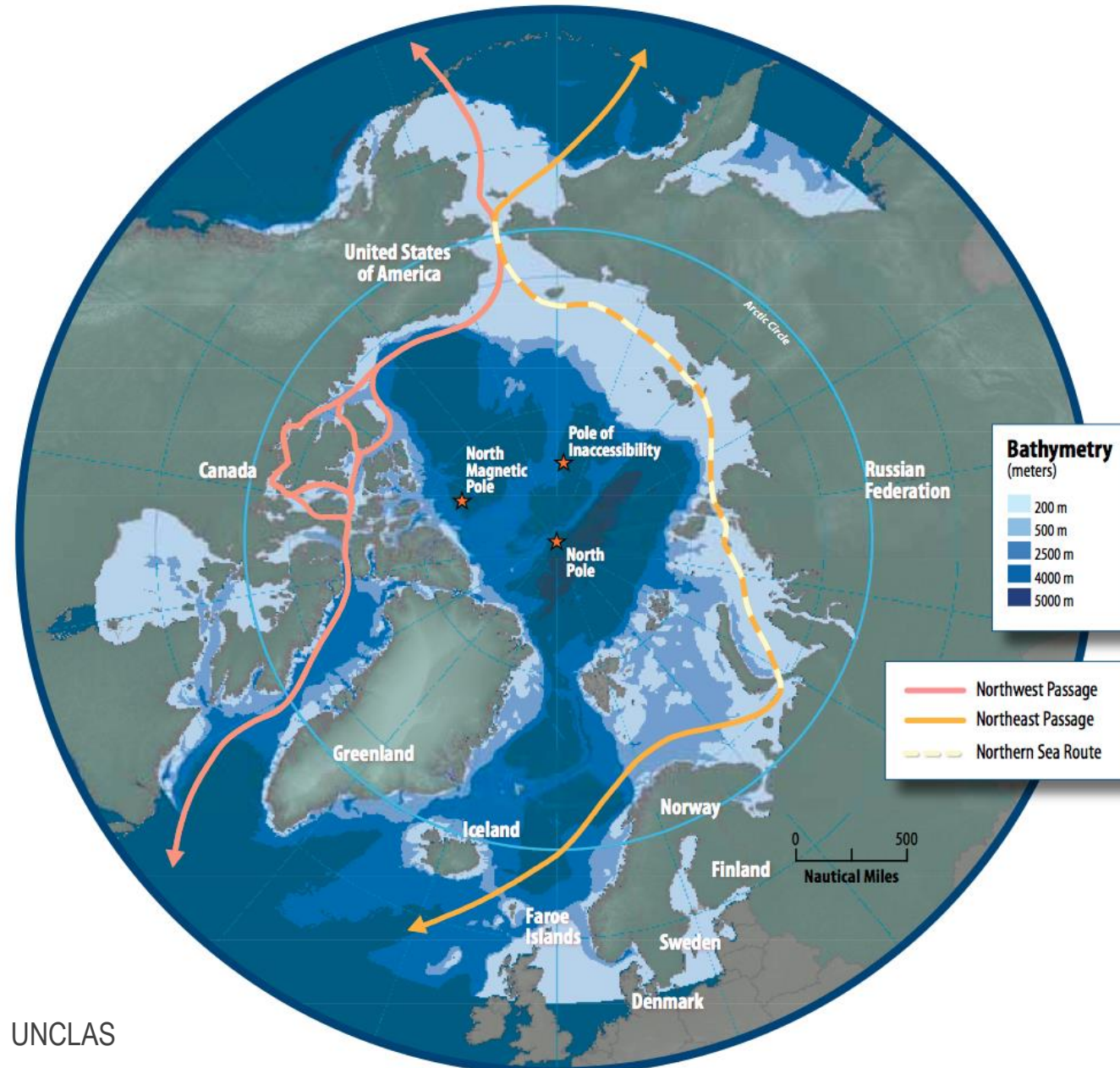


**The Royal Canadian
Navy Heading North**

RCN Arctic Strategic Objectives



- Enhance presence, as well as prevent and respond to safety and security incidents;
- Strengthen Canada's domain awareness, surveillance and control capabilities; and
- Strengthen cooperation and collaboration with domestic and international partners.



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RCN Arctic Strategic Lines of Effort

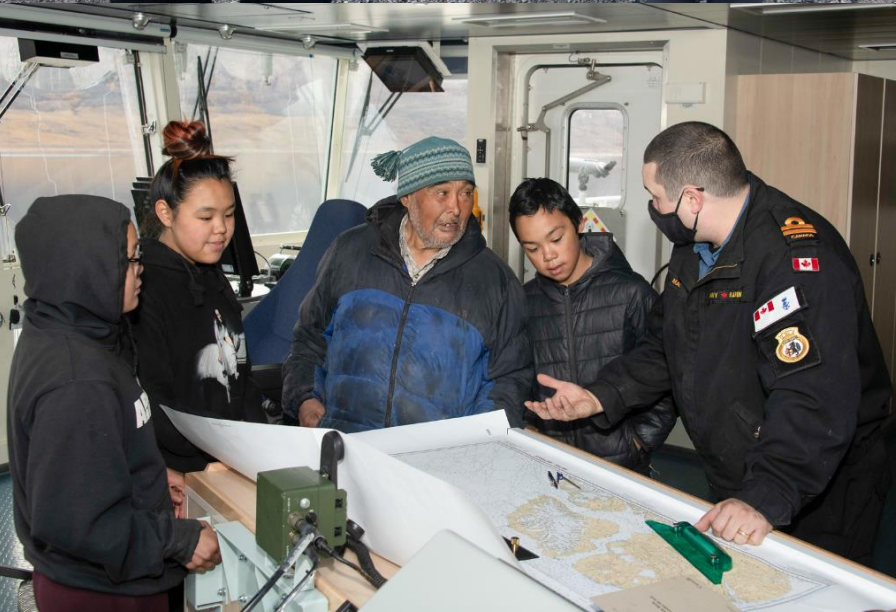


- Presence
- Maritime Domain Awareness
- Adaption and Innovation
- Northern Engagement and Ship Affiliation



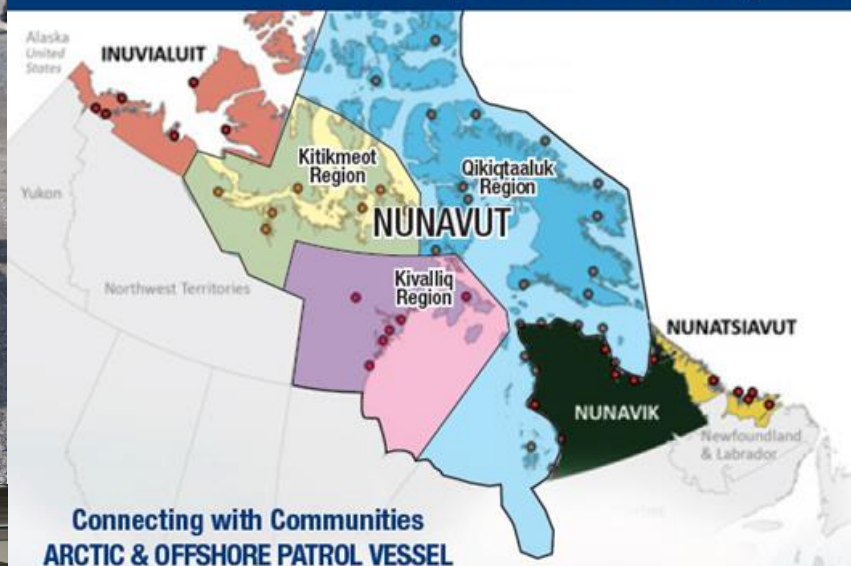
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RCN Northern Engagement and Ship Affiliation



6 SHIPS AFFILIATED TO THE INUIT NUNANGAT

Starting with HMCS *Harry DeWolf* and Qikiqtaaluk, Nunavut



Connecting with Communities
ARCTIC & OFFSHORE PATROL VESSEL
NORTHERN AFFILIATION

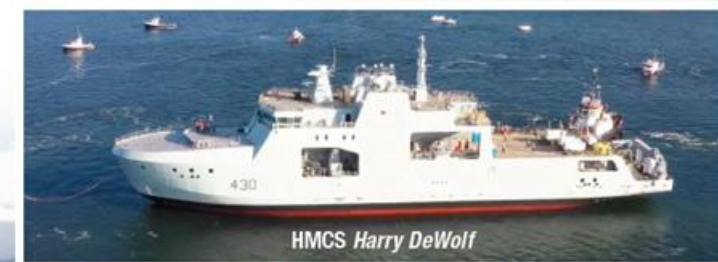
WHAT IS IT?

- Affiliation associates ships and crews with communities in the North
- Affiliation develops long-lasting relationships for the life of the ship
- Affiliation instills pride wherever the ship operates

HOW DOES IT WORK?

Communities and Ship's Crews form a flexible, inclusive relationship that supports:

- Community events
- An exchange of ideas, knowledge and experience
- Cultural interactions
- Environmental awareness
- Inuit and naval histories
- Mutual interests
- Learning each others rich heritage



HMCS *Harry DeWolf*



ARCTIC OFFSHORE PATROL VESSEL (AOPV) CAPABILITIES:

Ice-Capable, provide armed sea-borne surveillance, awareness of activities and events in Canadian waters, while asserting and enforcing sovereignty.
Length: 103 metres
Crew: 65

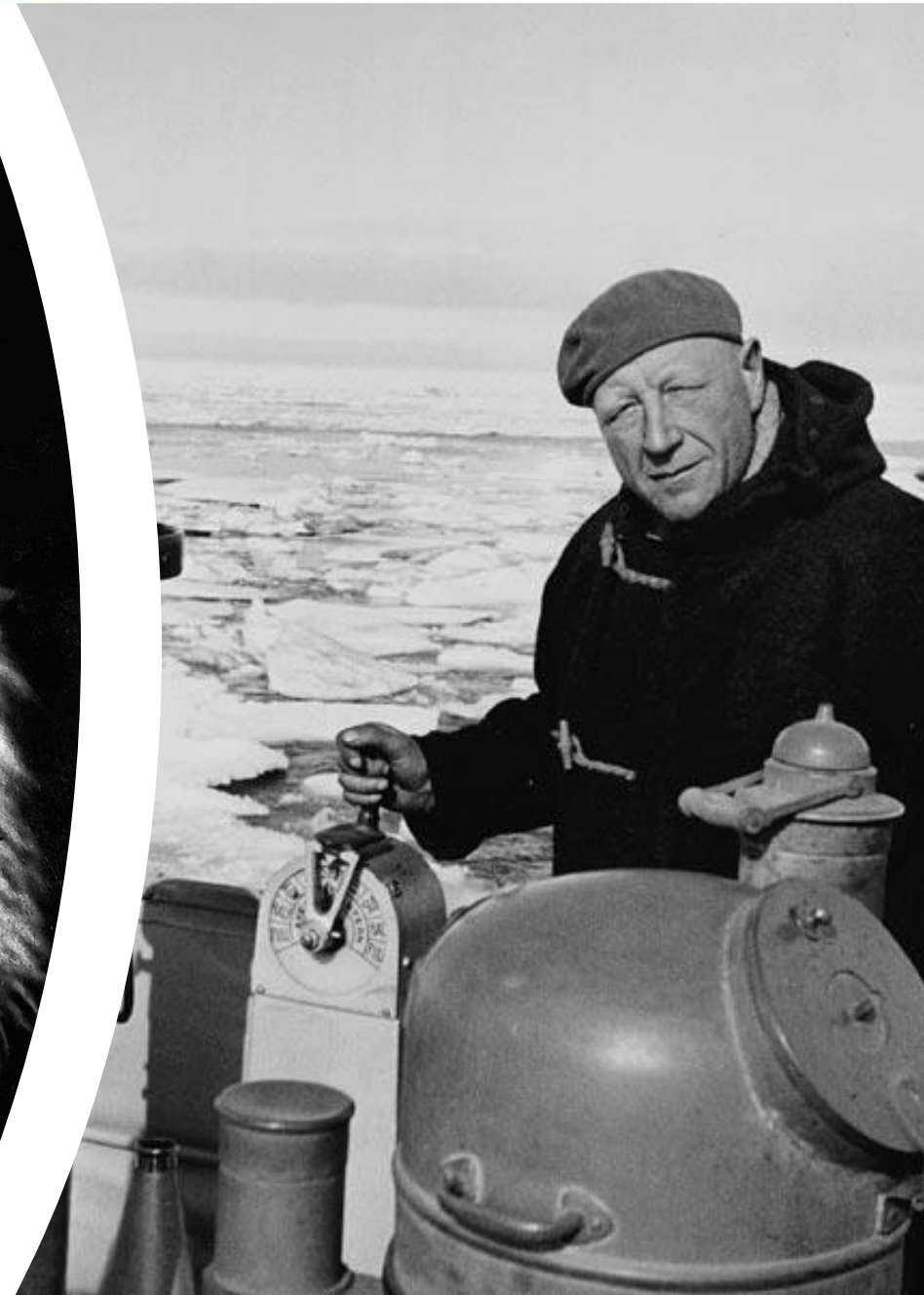
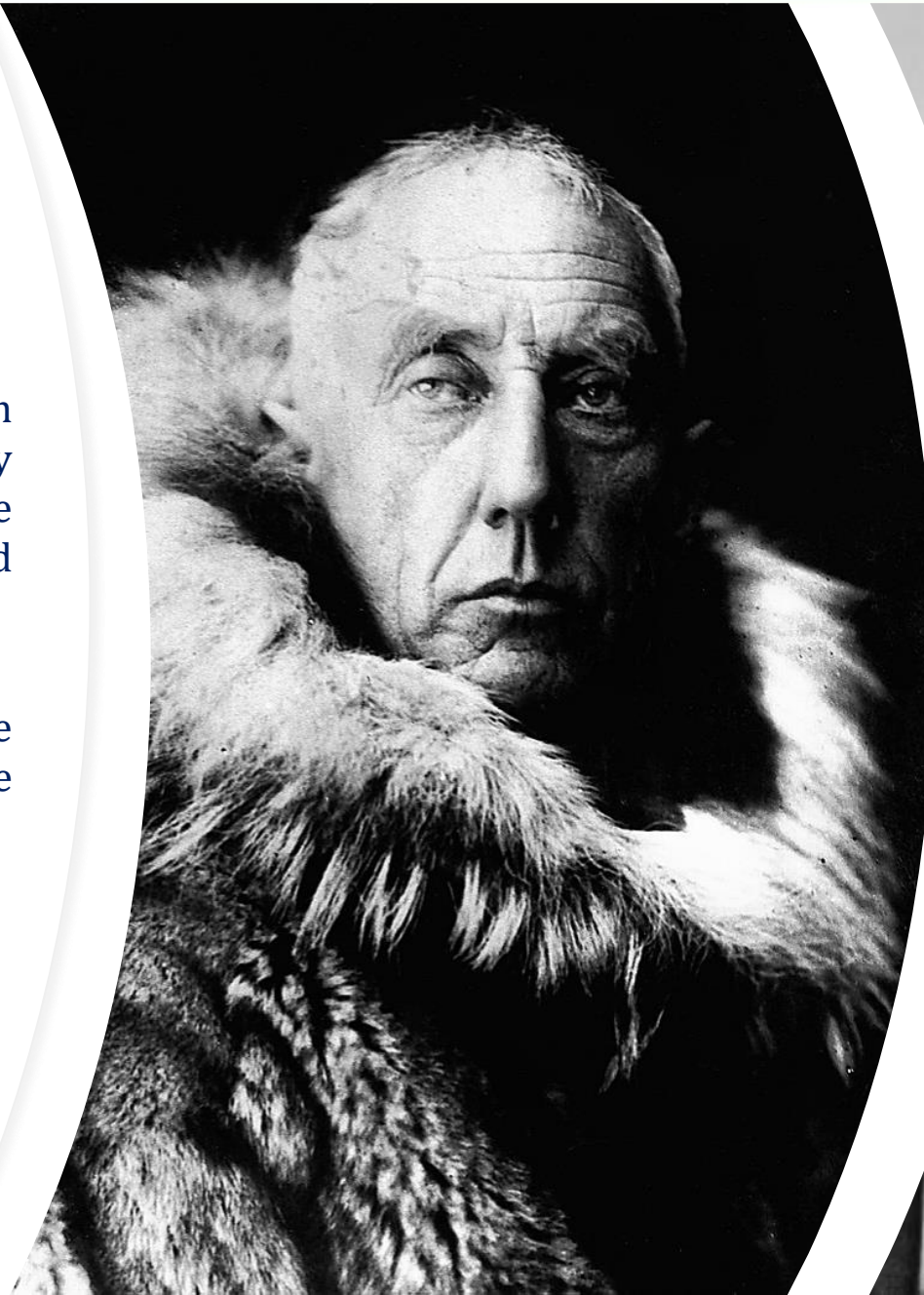
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"A Relationship Founded on Mutual Respect"

History of Canadian Naval Arctic Operations

Norwegian explorer Roald Amundsen was the first person to successfully navigate the Northwest Passage (NWP) by boat, on a voyage that lasted from 1903 to 1906.

Inspector Henry Larsen aboard the Royal Canadian Mounted Police (RCMP) patrol vessel ST. ROCH, 1944.



History of Canadian Naval Arctic Operations



- RCMP patrol vessel, ST. ROCH (3 Arctic voyages):
 - 1940-42: 1st Canadian vessel transit NWP (West to East);
 - 2nd vessel to transit NWP
 - 1944: 1st vessel return transit NWP (single season);
 - 1944-48: patrolled Canadian Arctic waters
 - 1950: 1st vessel to circumnavigate North America (East to West)
- 1954 - HMCS *Labrador* 1st RCN vessel transit NWP & circumnavigate North America (East to West)
 - 1955-56: extensive hydrographic surveys (eastern Arctic)/DEW line construction
 - 1957: transferred to Canadian Coast Guard (CCG)
- 1970's - renewed focus semi-annual northern deployments; sovereignty/ Soviet deterrence, quickly became sporadic
- 1989-02: no Arctic deployments
- 2000's - RCN Leadmark / Defence White Paper direction to resume regular deployments to Arctic:
 - 2002 - Exercise NARWHAL
 - 2005 - Exercise HUDSON SENTINEL
 - 2006 - Operation LANCASTER

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History of Canadian Naval Arctic Operations



- 2007 - *present: Operation NANOOK* (annual Arctic deployment)
 - 2020 - 1st of class Arctic & Offshore Patrol Vessel (AOPV) HMCS *Harry Dewolf* (AOPV 430) *delivered to RCN*
 - 2021 - HMCS *Harry DeWolf* 1st RCN vessel transit NWP & circumnavigate North America (East to West) since HMCS *Labrador* (67 years)



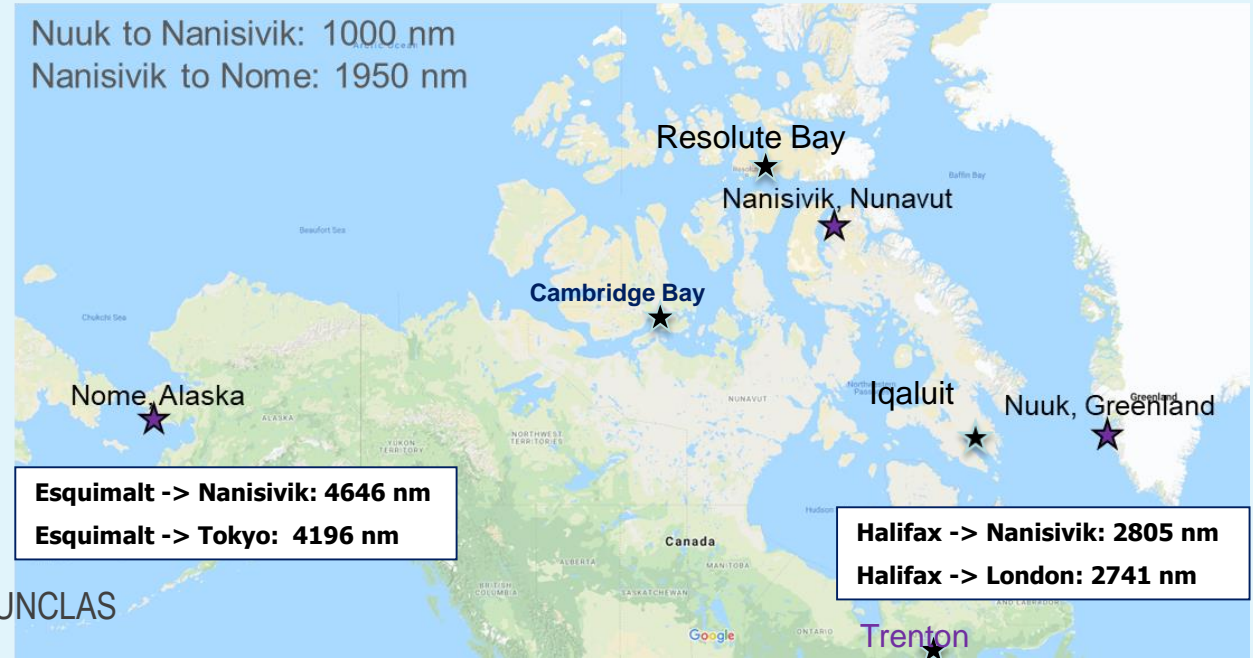
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Naval Arctic Operations Challenges



- Navigable Season: 4-14 weeks between (July – Oct)
- Minimal Infrastructure
 - Berthing/Fueling
- Resupply
- Waste
- Aviation Fuel
- Health Facilities

Estimated Flight Time - CAF Assets		
As per 1 CAD Air Mobility		
Trenton – Alert	CC-177	6hrs
	CC-130 J/H	8hrs / 8hrs30mins
Trenton – Resolute Bay	CC-177	5hrs
	CC-130 J/H	6hrs30min / 7hrs
Trenton – Iqaluit	CC-177	3hrs30min
	CC-130 J/H	4hrs30min / 4hrs30min
	CC-144	3hrs15mins
Resolute Bay – Iqaluit	CC-177	2hrs30mins
	CC-130 J/H	3hrs30mins / 3hrs15mins
Resolute Bay – Yellowknife	CC-177	2hrs45mins
	CC-130 J/H	3hrs30min / 3hrs15mins
Resolute Bay - Edmonton	CC-177	3hrs45mins
	CC-130 J/H	5hrs / 5hrs
Resolute Bay - Ottawa	CC-177	5hrs
	CC-130 J/H	6hrs30mins / 6hrs30mins



Nanisivik Naval Facility



- The Nanisivik Naval Facility (NNF) will be a **refueling station** meant to service RCN and Canadian Coast Guard vessels
- NNF will be the most northern RCN Facility and will contribute to the RCN's mandate to protect Arctic sovereignty

HMCS Ville de Quebec - Nanisivik Naval Facility - 2019



Forecasted Arctic Marine Traffic 2022



- Cruise Ships
 - 19 x vessels expected to conduct cruise activity in NWP (35% increase from previous years)
 - 2 x vessels expected to visit North Pole
- Adventurers
 - 25 x vessels expected to conduct transits of NWP (40% decrease from previous years, however likely to increase)
- Research
 - 4 Arctic research expeditions in 2021
 - 7 Arctic research expeditions scheduled for 2022
- Commercial Cargo
 - 3 Commercial transits in 2021
 - Consistent numbers expected with possible increase in 2022



RCN Arctic Operations 2022



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RCN Arctic Operations 2022 – *Operation NANOOK*



Operation NANOOK – Canadian Armed Forces (CAF) signature northern operation designed to exercise the defence of Canada in northern regions by delivering Arctic training, developing partnerships, and improving readiness.

In 2022 - the RCN directly supported two operations:

- ***Operation NANOOK - TUUGAALIK:***
 - Build capability in Canada's northern regions;
 - Improve interoperability with mission partners; and
 - Ensure readiness to operate in the North.
- ***Operation NANOOK - NUNAKPUT:***
 - Demonstrate Canada's capability to deploy forces in the Arctic;
 - Enhanced presence, as well as prevent and respond to security incidents;
 - Contribute to domain awareness, surveillance and control capabilities; and
 - Integrating regional northern partners in area of operations.



RCN Arctic Operations 2022 – Overview



- Operation NANOOK - TUUGAALIK (2-12 Aug 22)
 - HMCS *Margaret Brooke*
 - HMCS *Goose Bay*
 - CCG *Leonard J. Crowley*
 - USCGC *Bear*
 - HDMS *Triton*
 - FS *Rhone*
- Operation NANOOK - NUNAKPUT (15 Aug - 30 Sep 22):
 - HMCS *Margaret Brooke*
 - HMCS *Goose Bay*
 - Canadian Land Task Force
 - Support to Defence Research and Development initiatives
 - Support to OGDs (i.e. Department Fisheries and Oceans & Royal Canadian Mounted Police)

OPERATION NANOOK TUUGAALIK 2022

From 2-12 August 2022, HMCS MARAGARET BROOKE, HMCS GOOSE BAY, CGC LEONARD J. COWLEY, HDMS TRITON, FS RHONE, and USCGC BEAR conducted a task group exercise on route to Nuuk, Greenland.

1



Multinational task force conducts maneuvering serials outside of Nuuk, Greenland.



7



Formation conducting a gunnery exercise

6



HMCS MARGARET BROOKE'S landing craft conducting a personal TX in Iqaluit, Nunavut

5



HDMS TRITON conducting HELO OPS during RAS approach serial

2



Multinational formation conducting a navigation transit through Saglek Fjord, Torngat National Park, Northern Labrador.

3



HMCS MARGARET BROOKE conducting sovereignty patrols IVO Iqaluit

4



HMCS GOOSE BAY AND CGC LEONARD J. COWLEY proceeds to VOI while conducting a search and rescue exercise .

Operation NANOOK - NUNAKPUT - Phase 1 (15 Aug - 12 Sep 22)



HMCS *Margaret Brooke*

1. 19-21 Aug: MARPS Trials, Blaney Bay
2. 22-24 Aug: Comrel / Re-supply Pond Inlet
3. 26 Aug: Fuel Tanker Arctic Bay
4. 29 Aug: Resolute / Griffith / Lowther islands
5. 3-4 Sep: Re-Supply, Cambridge Bay, NU
6. 6 Sep: Terror Bay, NU
7. 11 Sep: Dundas Harbour, NU

HMCS *Goose Bay*

1. 21 Aug: Embark LRAT Team
2. 21-23 Aug: Conduct LRAT / embark AAR team
3. 24 Aug: Arctic Bay COMREL
4. 25 Aug: Fuel from Tanker Arctic Bay
5. 27 -31 Aug AARs :
 - a. 72 6'30.15"N, 072 41'16.62"W
 - b. 70 29'40.98"N, 066 12'7.59"W
 - c. 67 29'4.09N, 061 25'54.58"W
6. 3 Sep: BFS Nuuk
7. 6 Sep: embark DFO (Fish Patrol, 6- 17 Sep)

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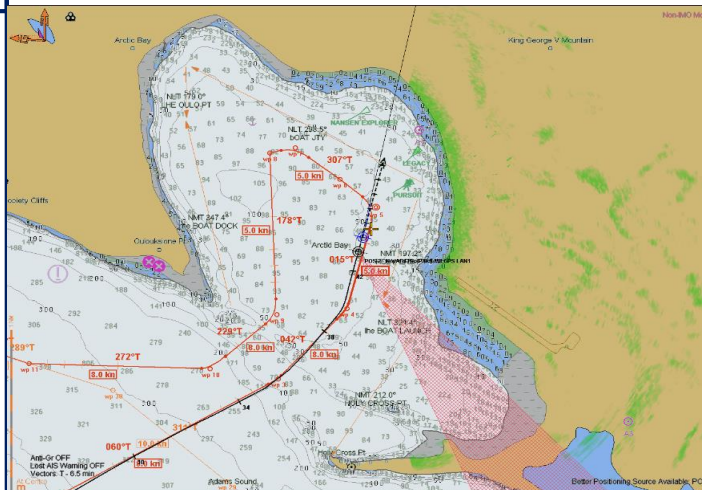
MAR Interaction Nansen Explorer Group

19 Aug 2022

Timeline of Interaction

- 19 Aug 22 - CTG 301.01 received intel from Jon Neely, Department of Environment Government of Nunavut, via JTF(N) LO embarked in MAR, that a trio of yachts located in Arctic Bay (Nansen Explorer, Legacy, Pursuit) were allegedly harassing wildlife with their helos. There were also reports of them potentially entering wildlife protected areas. CTG 301.01 staff verified location of vessels in Arctic Bay via Ociana vessel tracking system. Conflicting data was also discovered at this time between the vessels stated itinerary and their actual movements.
 - 2200 (Z) 19 Aug - 22MAR was at anchor ~150 NM from the vessels, after consultation with RCMP, DFO, Environment Canada and MCC, the decision was made to weigh anchor and further investigate the vessels.
 - 1500(Z) 20 Aug 22 - MAR approached the vessels in Arctic Bay and conducted a courtesy hail of the Nansen Explorer Group. On completion of the hail, the vessels were reminded of regulations for proximity to wildlife under the wildlife act. The vessels indicated they were following all regulations and would continue to do so while operating in Canada's Arctic.
-
- **CTG Comments:** MAR demonstrated the CAF's commitment to Arctic Sovereignty, cooperation with OGDs, stewardship of the environment and the responsibility to support northern communities when they request assistance.

Area of Interaction



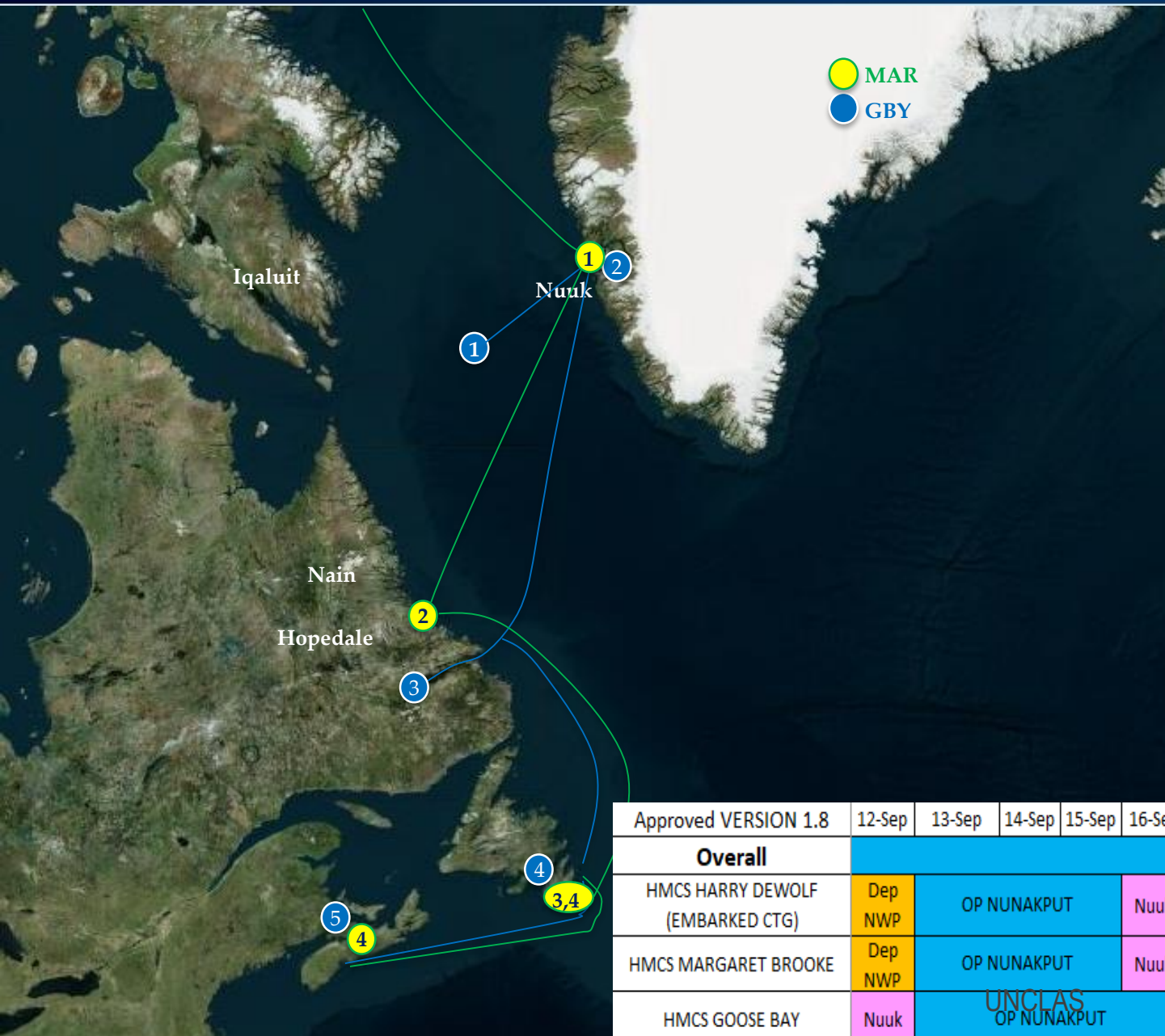
LEGACY

PURSUIT



NANSEN EXPLORER

Operation NANOOK - NUNAKPUT - Phase 2 (13-30 Sep 22)



HMCS Margaret Brooke

- 1. 16 Sep: BFS Nuuk, Greenland
- 2. 19-20 Sep: AOPV Affiliation Ceremony, Hopedale, NL
- 3. 23-26 Sep: St. John's, NL
- 4. 27 Sep: Lt Gov Sail, St. John's, NL
- 5. 30 Sep: Halifax

HMCS Goose Bay

- 1. 5-18 Sep: Fishery Patrol, Davis Strait
- 2. 12 Sep: BFS Nuuk, Grenland
- 3. 17-19 Sep: Namesake Visit, Disembark DFO
- 4. 23-26 Sep: Port Visit, St. John's, NL
- 5. 30 Sep: Halifax

Approved VERSION 1.8	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep
Overall														PATROL					
HMCS HARRY DEWOLF (EMBARKED CTG)	Dep NWP	OP NUNAKPUT			Nuuk	OP NUNAKPUT		Nain, NL		Patrol (Labrador Sea)		St Johns			Patrol		Halifax		
HMCS MARGARET BROOKE	Dep NWP	OP NUNAKPUT			Nuuk	OP NUNAKPUT		Hopedale, NL		Patrol (Labrador Sea)		St Johns			Support to NL LG		Halifax		
HMCS GOOSE BAY	Nuuk	UNCLAS OP NUNAKPUT				Goose Bay			Patrol (Labrador Sea)		St Johns			Patrol		Halifax			

RCN Arctic Operations Outlook 2023-2025



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RCN Arctic Operations Outlook 2023-2025



- 2023: HMCS *Max Bernays* and *Margaret Brooke* to deploy for *Operation NANOOK 2023*
 - Max Bernays to conduct coastal transfer to West Coast (via NWP)
- 2024: 2 x *Harry DeWolf*-class Arctic and Offshore Patrol Vessels (AOPVs) and 1 x *Kingston*-class Maritime Coastal Defence Vessel (MCDV) - TBD|TBC
- 2025: 2 x *Harry DeWolf*-class AOPVs – TBD|TBC



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