

CAF and The Arctic

BGen Mike Nixon
Commander JTFN

CDA Institute
13 Apr 2018

Agenda

- The Organization & Strategic Context
- The Canadian Northern Environment
- Whole of Government
- Northern Operations



Canada's Defence Policy

STRONG at home



- Steadfast defence of Canada
- Rapid disaster response
- Effective search and rescue
- Enhanced presence in the Arctic
- Innovative defence sector

SECURE in North America



- Continuous watch over Canadian air and sea approaches
- Modern and effective NORAD
- Strong defence relationship with the U.S.
- Cutting edge defence research

ENGAGED in the world



- Robust commitment to NATO, UN and Coalitions
- Support to Canadian interests and humanitarian assistance
- Improved early warning
- Integrated capacity building with partners



Canadian Arctic Context

Increased
Interest and
Activity



Regional
Challenges



Opportunities



CAF Presence in Canada's North

- Includes +400 buildings at over 60 sites.
- CAF, including through NORAD, operates from a number of locations in the North.
- Permanent presence includes JTFN, 1 CRPG, 440 Squadron, ASU(N), LER, CAF-ATC
- Southern-based CAF elements operate in the Arctic on activity-basis



Joint Task Force (North)

Mission Statement

JTFN, in collaboration with Arctic partners, enables safety, security and defence operations while demonstrating sovereignty in support of broader government priorities in Canada's North.



Royal Canadian Navy



Canadian Army



Royal Canadian Air Force







Junior Canadian Rangers

The aim of the Junior Canadian Ranger Program is to provide a structured youth program, which promotes traditional cultures and lifestyles, in remote and isolated communities of Canada.

~1300 total.

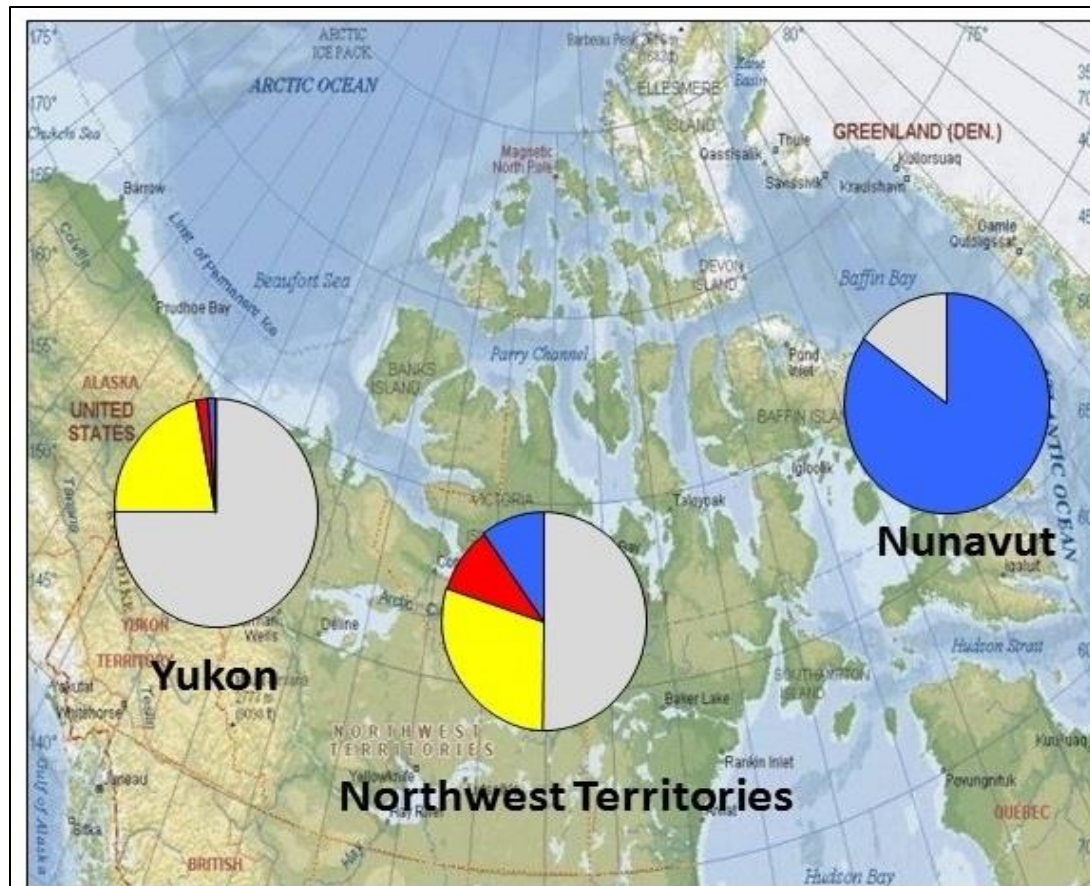




The Canadian Northern Environment



People of the North



First Nations



Inuit



Metis



Non-Indigenous

Yukon

- Population: 35,874

NWT

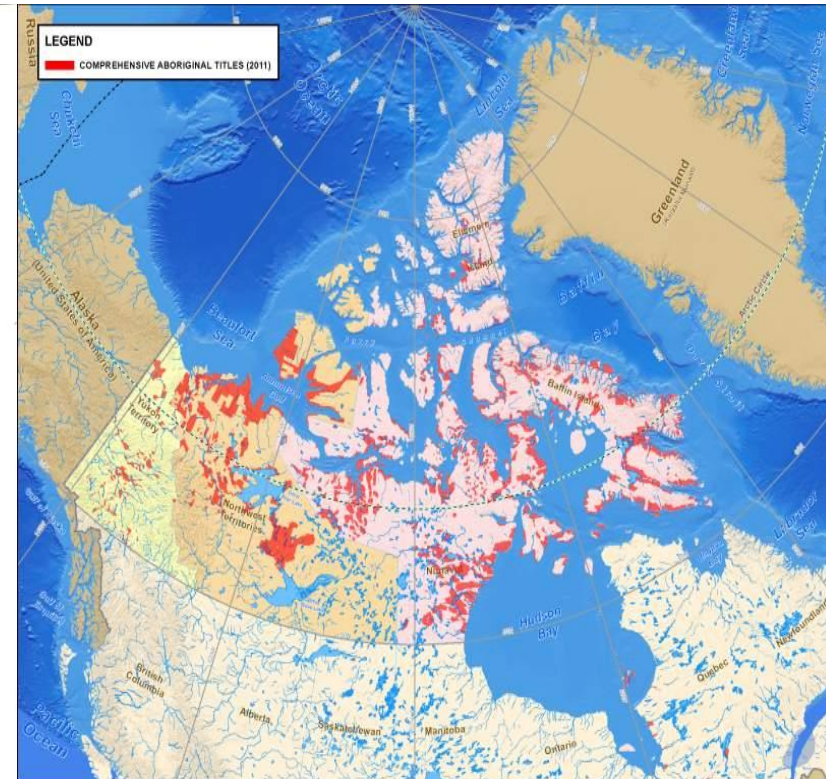
- Population: 41,786

Nunavut

- Population: 35,944

Total Population: 113,604

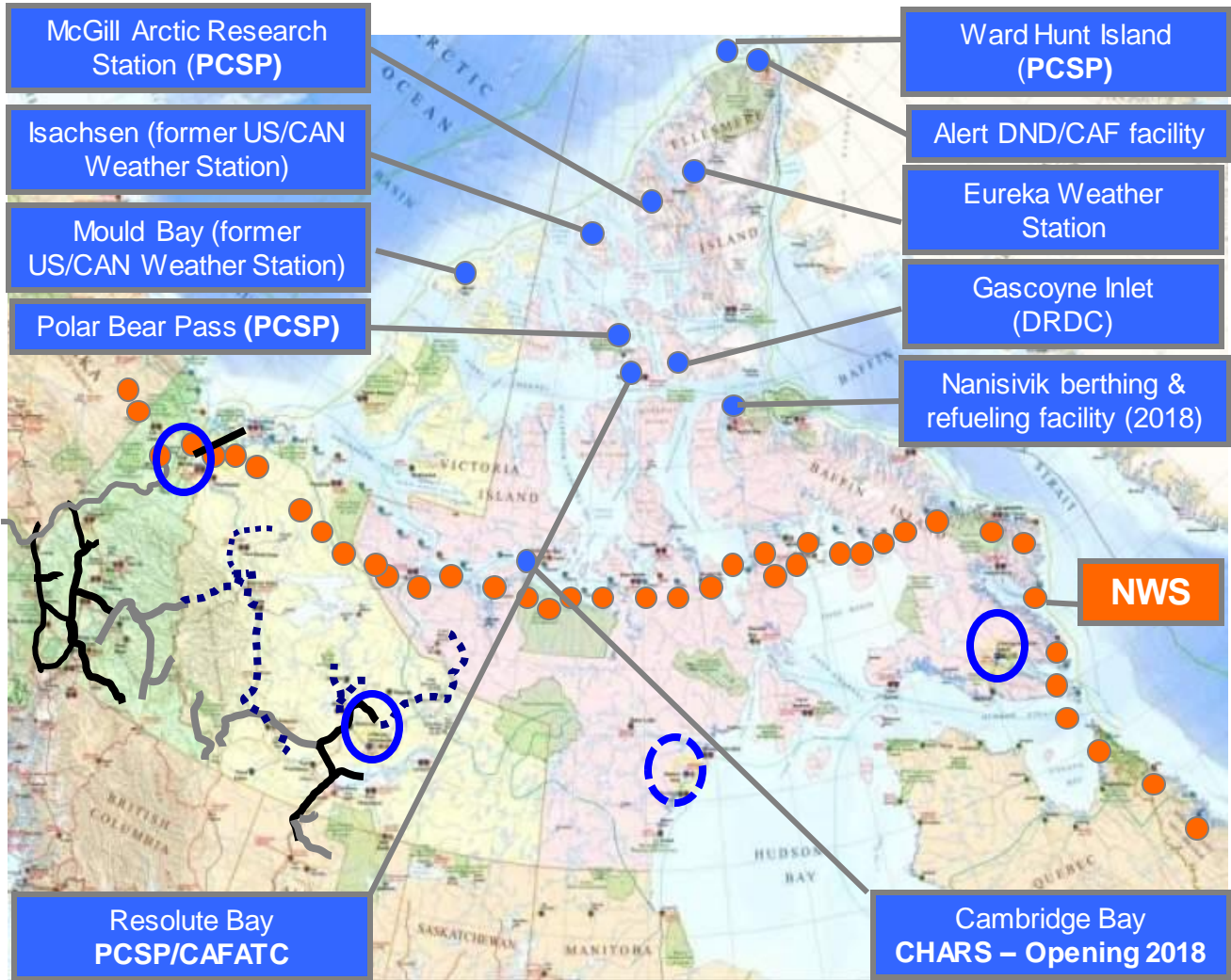


[illegible]

Political Organization



Infrastructure

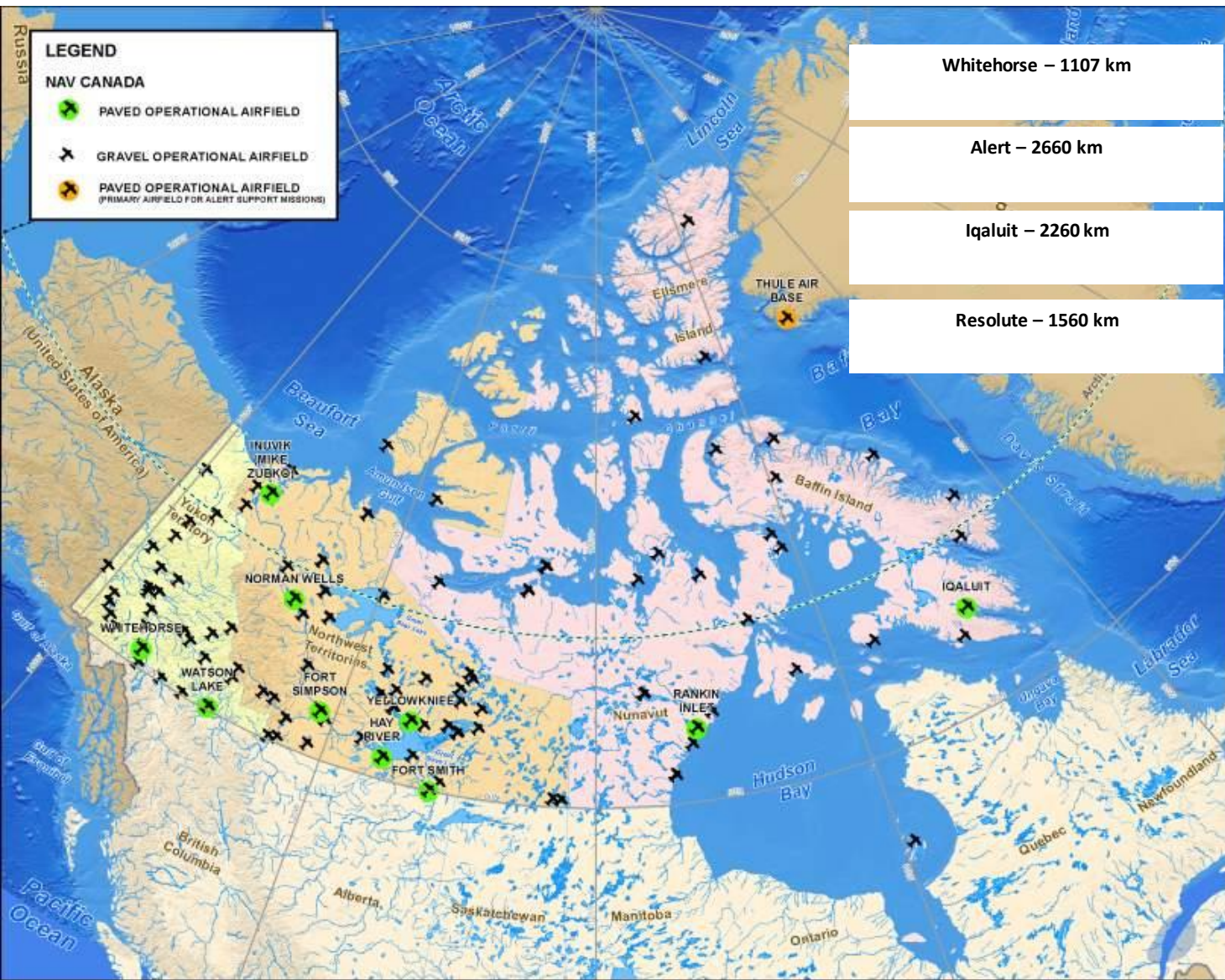


- Infrastructure in the North is difficult to maintain
- The structures that exist are often remnants of old military facilities or scientific research stations
- New stations such DRDC's Northern Watch station are under construction
- NORAD's Forward Operating Locations (FOLs) are located in Iqaluit, Yellowknife and Inuvik

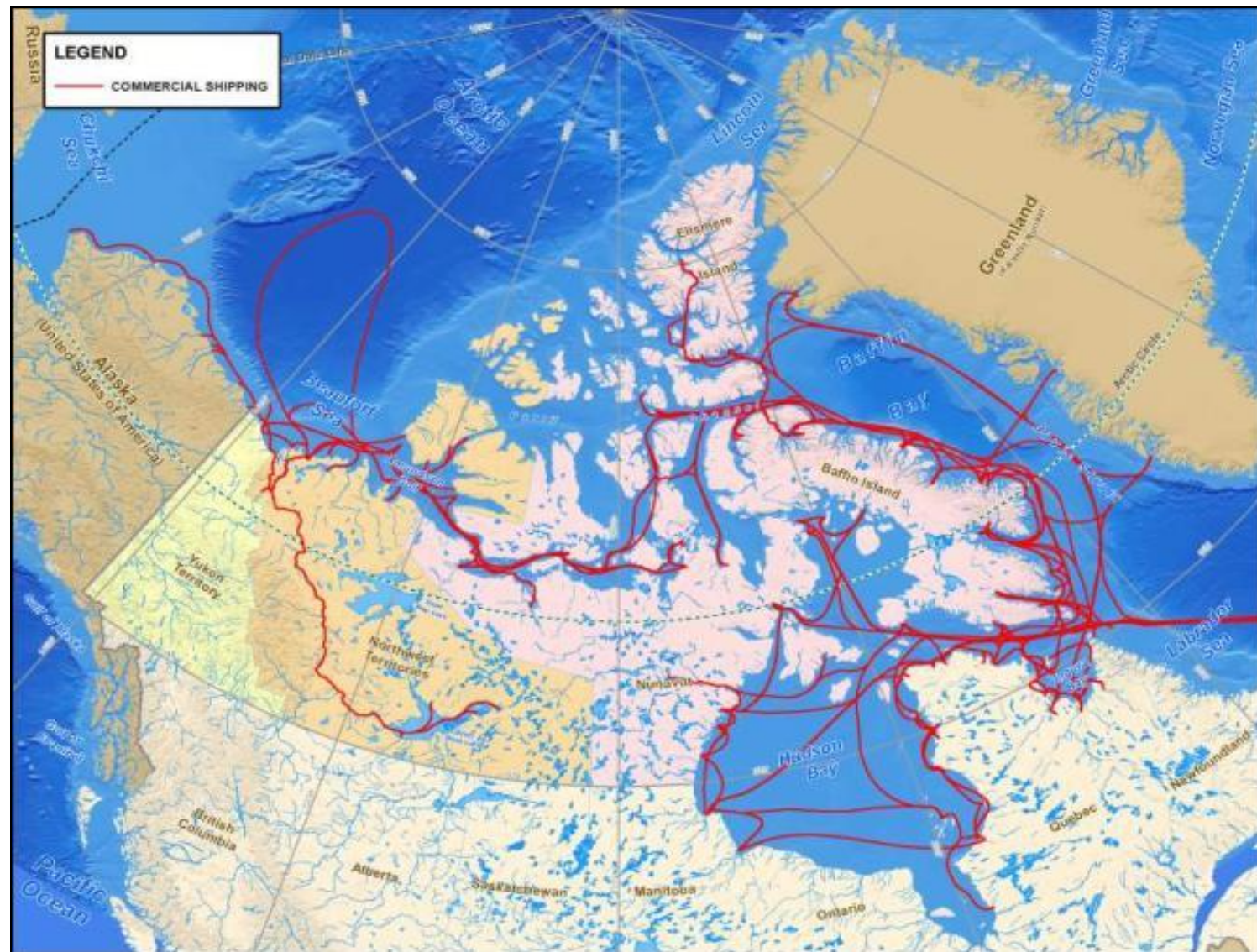


Primary Highway
Secondary Highway/Road
Ice road
NORAD FOL Site

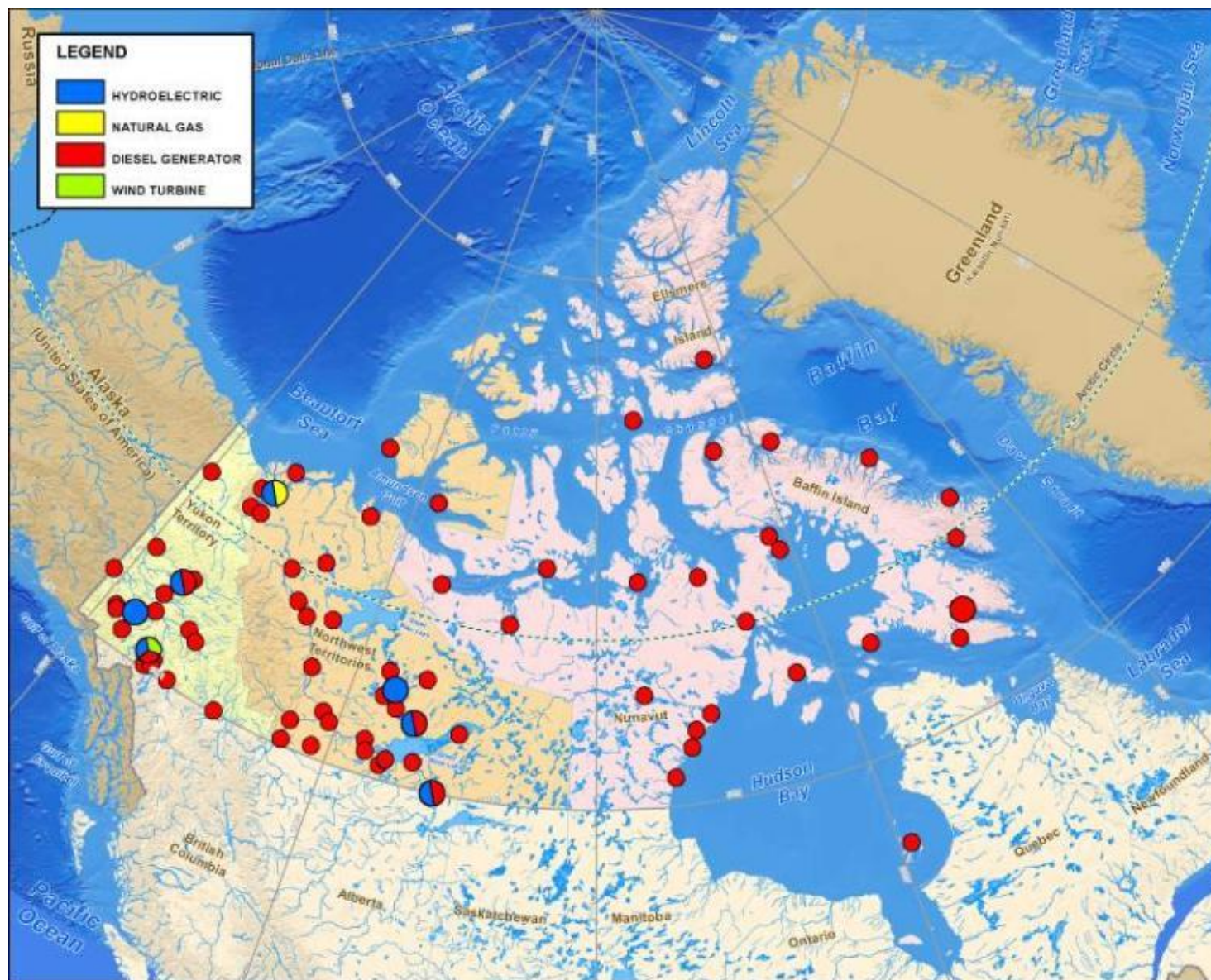
Distances/Airfields



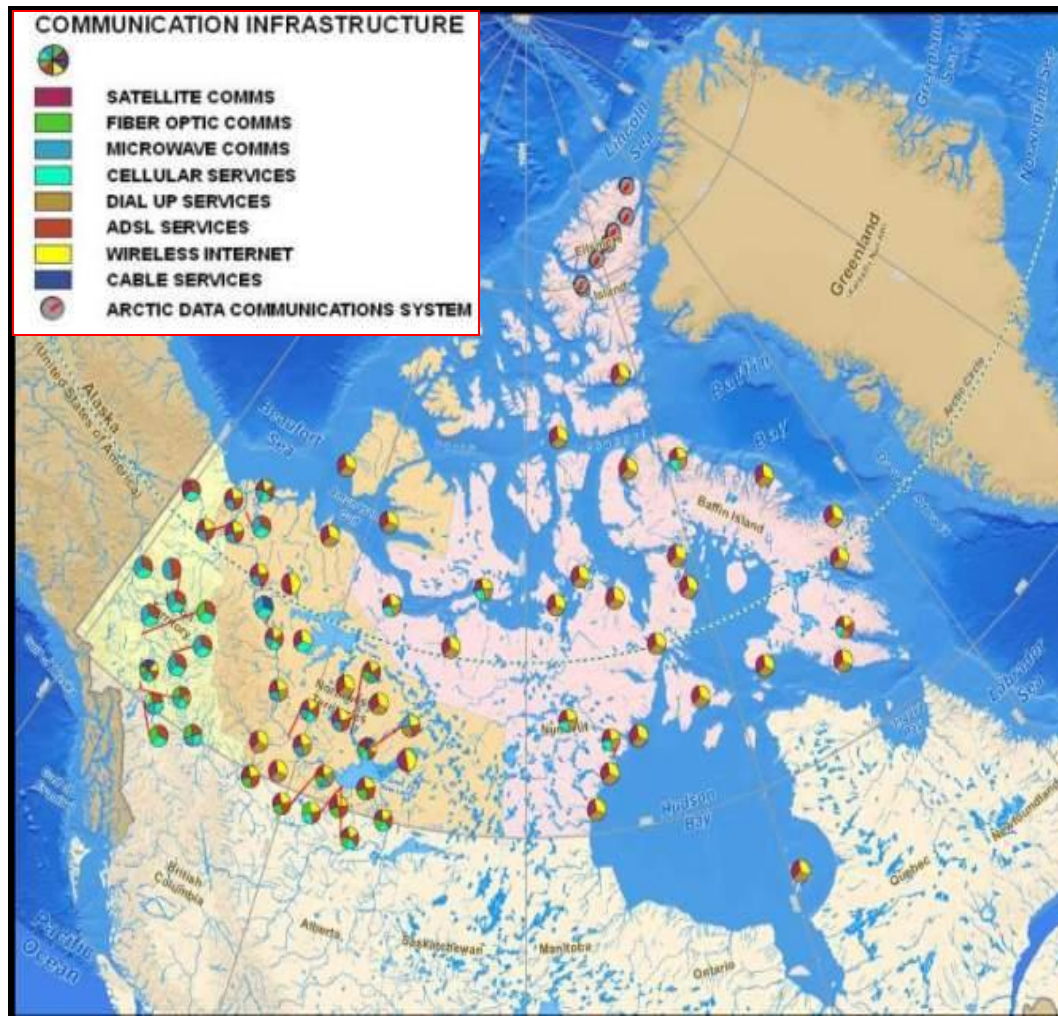
Shipping Activity



Power Sources



Communications



Nunavut – 26 communities:

- reliant on satellite communication
- Fibre upgrade underway

NWT – 34 communities:

- northern are reliant on microwave towers
- southern are reliant on fibre
- 8 are reliant on satellite

Yukon – 15 communities:

- northern are reliant on microwave towers
- southern are reliant on fibre
- Old Crow, is reliant on satellite

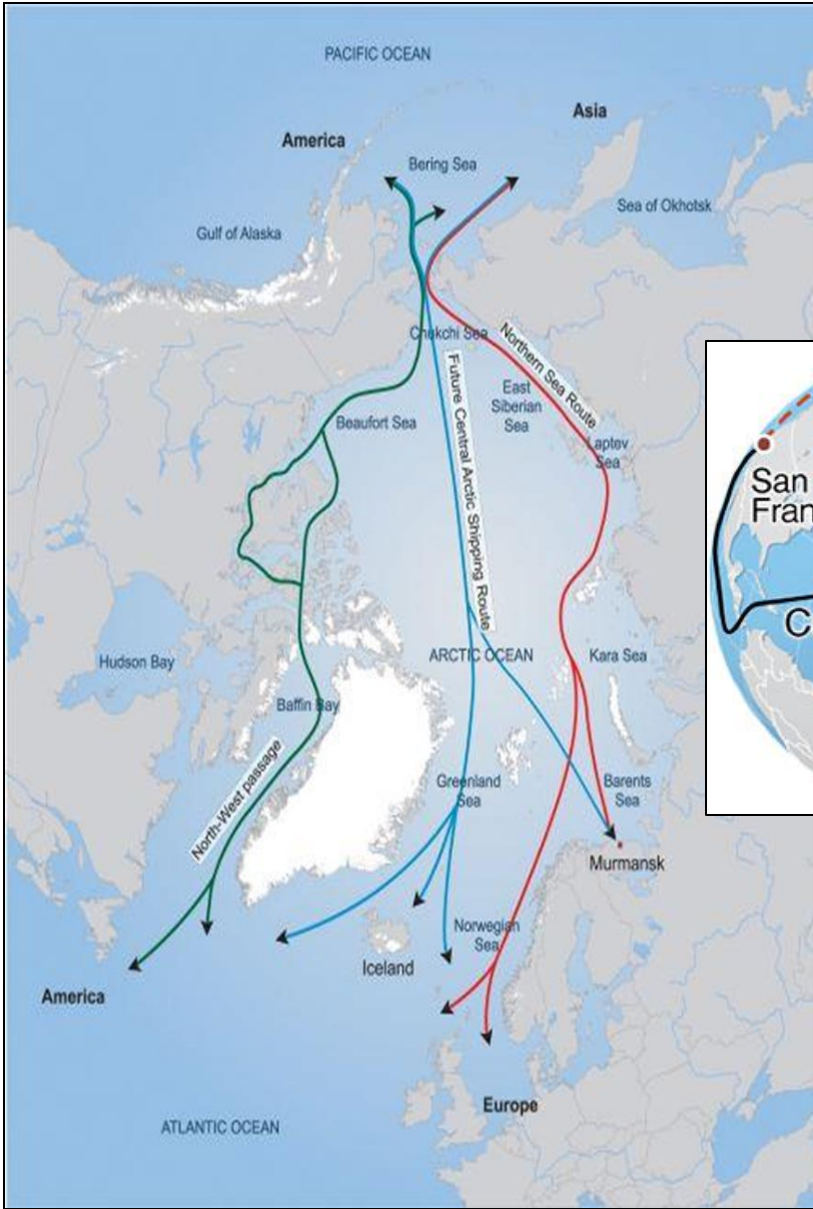


Natural Disaster Risk in the North





Potential Maritime Routes





Adventurers





CAF Activities in the North

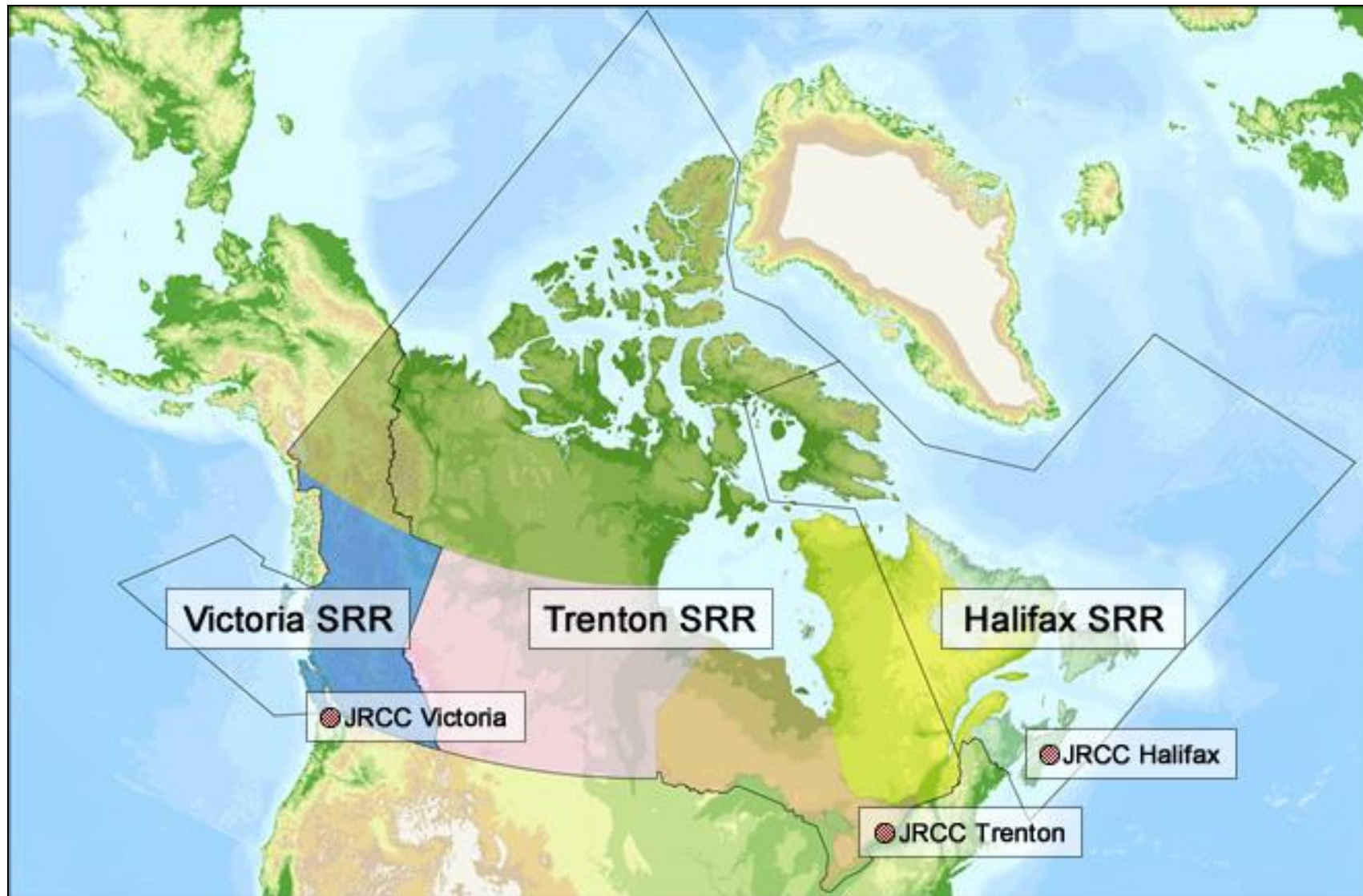


Search and Rescue in the Arctic

- CAF mandate is aeronautical SAR, and maritime SAR on federal waters in collaboration with the Canadian Coast Guard.
- CAF also provides assistance to provinces and territories on ground SAR (GSAR) incidents when requested, to the best of our capabilities and with the resources we are given.
- If/when a call comes in to a Joint Rescue Coordination Centre (JRCC) for assistance with a GSAR event, this may trigger the tasking of a SAR Cormorant or Hercules aircraft, or any other CAF asset considered as a secondary SAR resource.
- The JRCCs may also task a local ship or local airline to perform the rescue.
- The JRCCs do not fall under the command of JTFN.
- The Canadian Rangers are considered a secondary asset for GSAR.



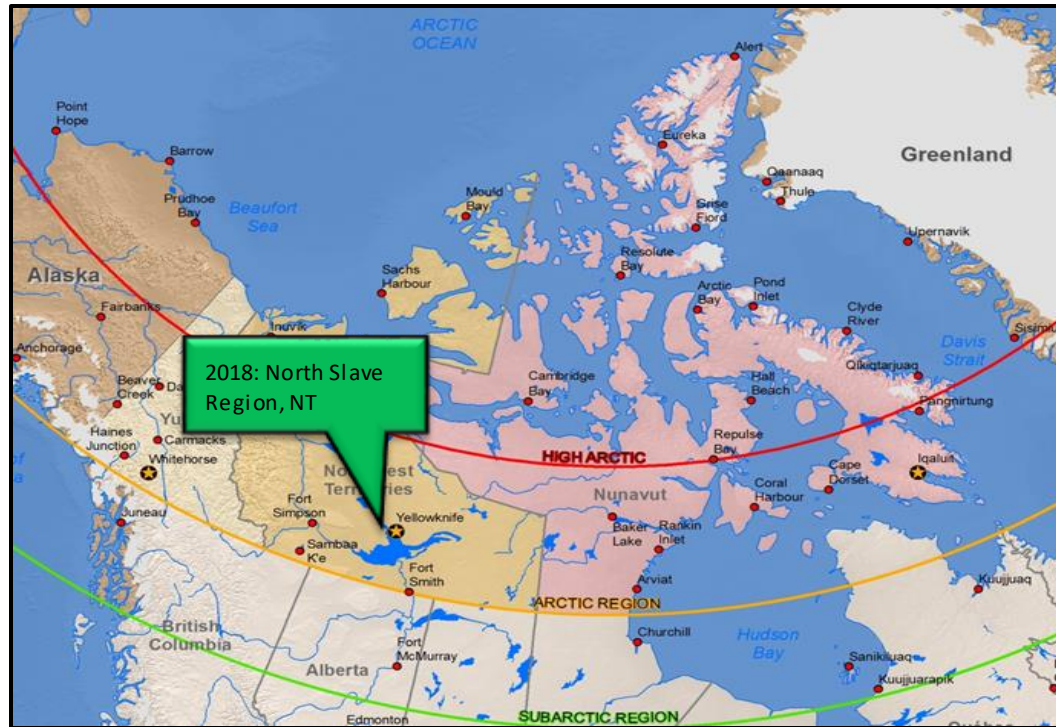
Search and Rescue Regions



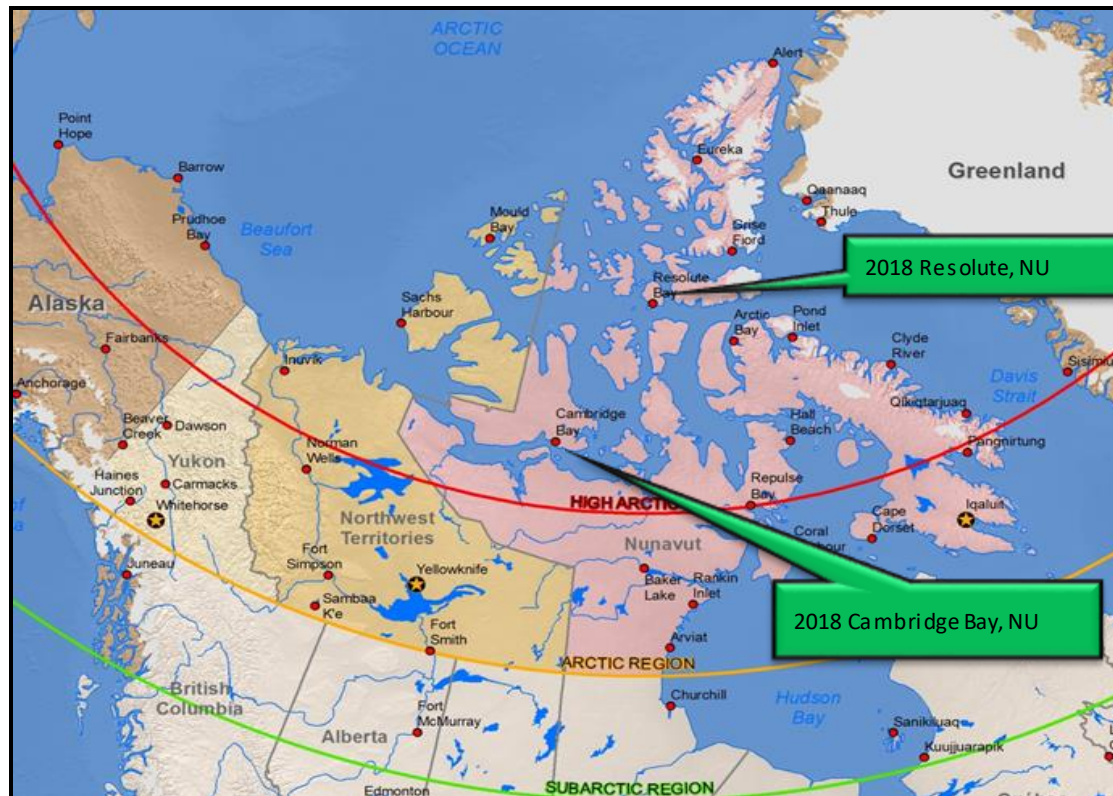
Operation NANOOK – A Persistent Northern Operation



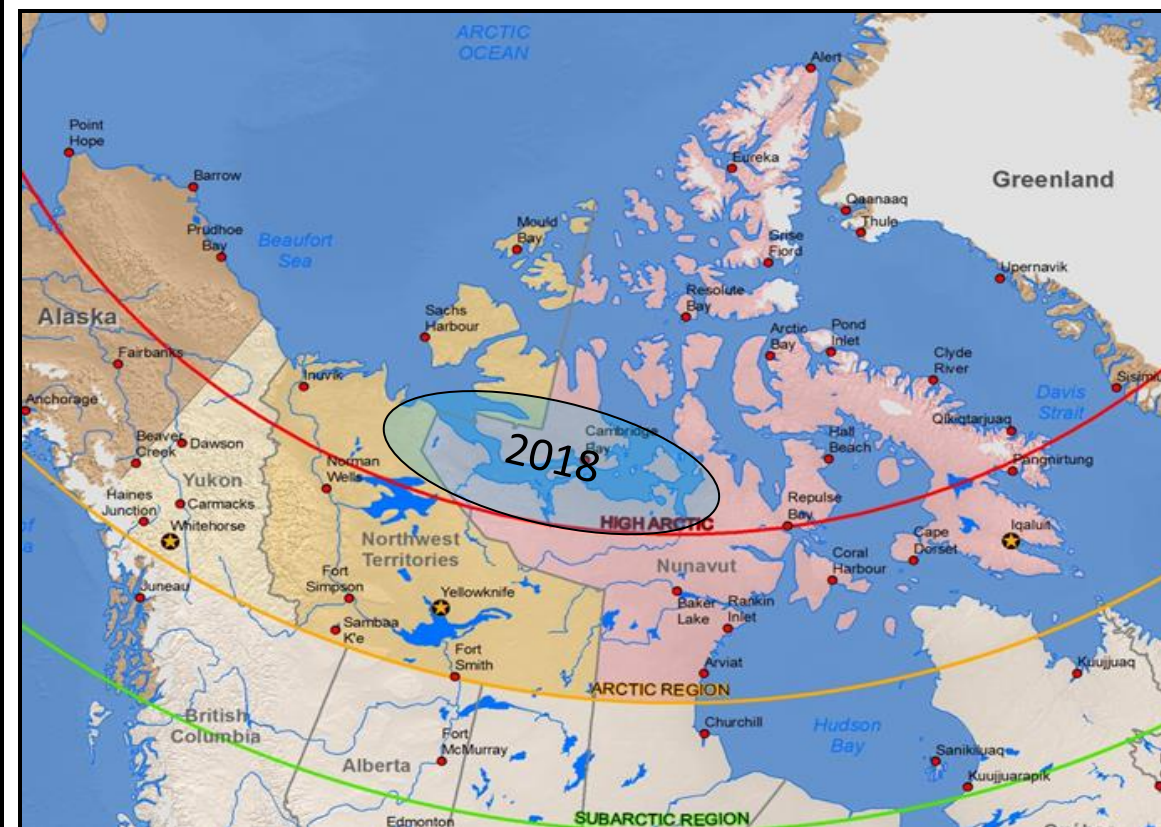
Operation NANOOK – TATIGIIT



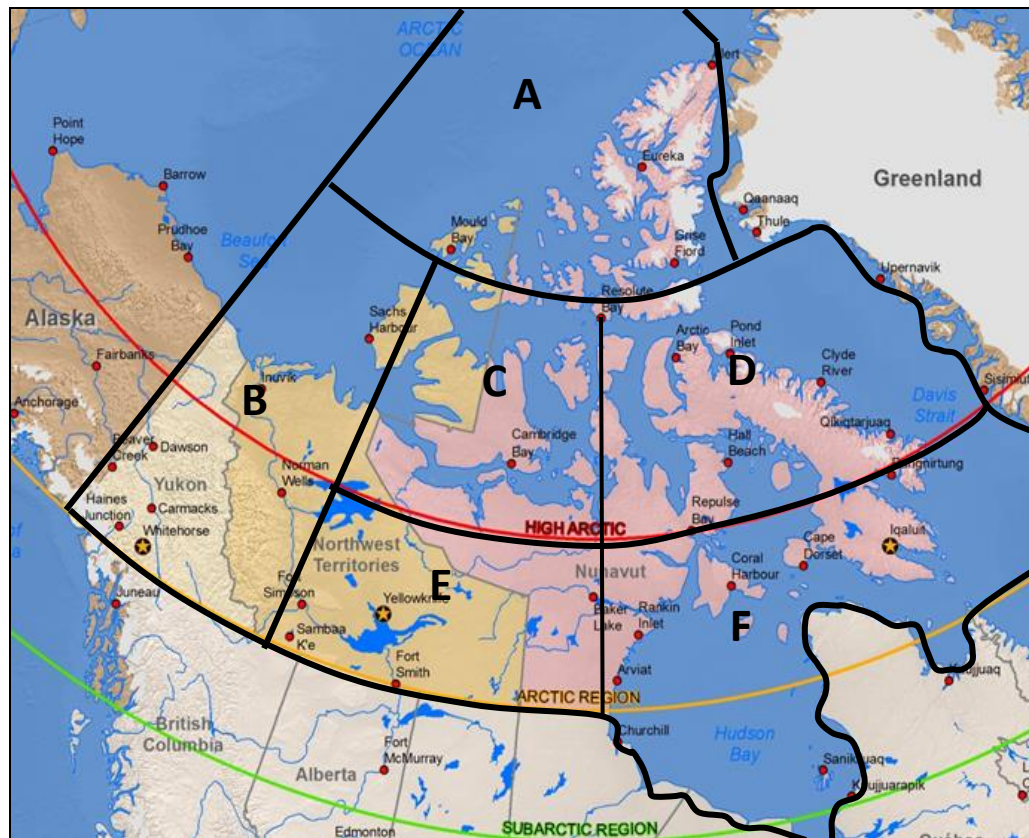
Operation NANOOK - NUNALIVUT



Operation NANOOK - NUNKAPUT



Operation LIMPID (JTFN AOR)





**Whole of Government and
Importance of Relationships**



Domestic Collaboration



International Collaboration



Arctic Security Working Group



ASWG brings together other federal departments and agencies, territorial governments, international partners, and academics to examine issues of shared interest and concern.



New and Future Capabilities

Maritime

- Arctic/Offshore Patrol Ships
- Nanisivik Refueling Facility

Land

- Canadian Ranger Modernization
- Over Snow Vehicles

Air

- North Warning Sites (NORAD)
- Air Defence Identification Zones





A 'whole-of-government' effort to maintain and expand Canada's access to a domestic source of space-based Earth observation data.



Questions?

