# High Latitudes, Higher Tension: Ice-Diminished Arctic Does Not Extend a Warm Welcome

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Members of the Coast Guard Cutter Polar Star participate in various activities on the ice about 13 miles from McMurdo Station, Antarctica, in January 2018. U.S. Coast Guard/Fireman John Pelzel

Less ice in the Arctic is inviting more human activity. While the environmental changes in the far north have opened the previously fully

frozen ocean and its coastline to opportunity, the Arctic is naturally a cold

and inhospitable place that is unforgiving for the unprepared.

As the access, interest and presence in the Arctic has grown, new icebreakers and ice-capable ships are being built, and policies and

strategies have been updated. International research efforts are studying the

changing environment, and military exercise programs are learning and

practicing how to operate there.

## Check out the full digital edition of Seapower magazine <a href=here</a>.

Speaking at the Navy League's Sea-Air-Space exposition in May, Commandant of the Coast Guard Adm. Karl Schultz announced that the service had just

contracted for its new Polar Security Cutter (PSC), calling it the "first

recapitalization of the heavy icebreaker capability in the nation in more than

40 years." Simultaneously, and what Schultz said was no coincidence, the Coast

Guard issued its new "Arctic Strategic Outlook."

The U.S. Navy released "Strategic Outlook for the Arctic" in January, which outlines the objectives of defending U.S. sovereignty and the

homeland from attack, ensuring that the Arctic remains a stable and

conflict-free region, preserving freedom of the seas, and promoting

partnerships within the U.S. Government and with allies and partners to achieve these objectives.

According to the Danish "Defence Agreement 2018-2023,"

"Climate change brings not only better accessibility, but also an increased

attention to the extraction of natural resources as well as intensified

commercial and scientific activity. There is also increased military activity

in the area."

According to the document, the Danish Defence presence and tasks are based on close relationships with the populations and local authorities of both Greenland and the Faroe Islands. "Although climate change and increased activity in the region necessitate increased presence and monitoring, Denmark continues to strengthen surveillance, command, control and communication, and operational efforts in the Arctic."

All of these documents and action underscore concerns about presence, sovereignty, safety and security, environmental, economic. and world

power competition in the Arctic. Russia has been open about its massive

military buildup in the Arctic, but Russia has a vested

interest in extracting

resources and building access to markets. In fact, Russia gets 20 percent of

its gross domestic product from the north — not the situation in North America.

In 2018, China announced in its official Arctic strategy a \$1 trillion program

to develop polar regions economically, declaring itself a "Near-Arctic State." Russia's

military expansion and China's attempts to invest in a ports on Baffin Island

and airports in Greenland have alarmed the West. However, all the nations have

a goal to maintain the Arctic as a low-tension area, stressing cooperation and collaboration.

# Prepared for the High Latitudes

The Coast Guard conducts annual the Arctic Shield exercise to familiarize themselves with Arctic operations and evaluate new equipment. In

addition to the Navy's long-running series of undersea Ice Exercises, the Navy

and Marine Corps also conducted major exercises in the high latitudes like NATO's

Trident Juncture in and around Norway last fall, and is demonstrating

expeditionary maneuvers up in Alaska during the Arctic Expeditionary

Capabilities Exercise in September.

There are many challenges in conducting military exercises in the Arctic, but they help warfighters to better understand and deal with the

lack of infrastructure, communications, logistics, medical response capability

and vastness of the region. For starters, they require ships designed and

equipped for high latitudes.

The Royal Danish Navy has operated in the waters off

Greenland for many years, and currently has Thetis-class frigates and Knud

Rasmussen-class arctic offshore patrol vessels that are optimized for the icy waters.

The Royal Canadian Navy has commissioned the first of six Harry

DeWolf Arctic and offshore patrol vessels, and two more are planned for the

Canadian Coast Guard. The CCG is also modifying three icebreakers procured from

Sweden for use in Canadian waters and is building at least two new icebreakers

as part of the National Shipbuilding Strategy. And the Canadian Armed Forces

continue to exercise and operate in the extreme north, and even conducting

continuing Operation NANOOK series of training exercises.

There has been an increase in traffic in Canada's Northwest Passage, including transits by the Crystal Serenity cruise ship in 2016 and

2017. But the ice is unpredictable and prevented ships from getting through

last year. The 27 rural communities in Canada's Nunavut territory are not

connect by roads, but must be resupplied once a year by ship or barge, and are

dependent on the capability to operate in the Arctic in the summer. Both the Royal

Canadian Navy and Coast Guard hope their new ships will allow them to work

farther north, and upgrading a former mining pier at Nanasivik to be used as a

refueling port will let them stay longer.

### Cooperation

Also speaking at Sea-Air-Space, U.S. Coast Guard Deputy Commandant for Operations Vice Adm. Daniel B. Abel talked about profound

partnerships and native knowledge. He served previously in command of the 17th

Coast Guard District in Juneau, Alaska, where he learned to "Listen to those

who live there, who are impacted by the Arctic."

The Alaskan coastline is more than 6,600 miles long, Abel said — more than the entire coastline for the lower 48 states. So cooperation

is an absolute necessity.

"We work closely with our partners in the Arctic, including our neighbors in Canada, who are the best partners we could ever have," Abel said.

But that includes all the players in the Arctic. "The distance across the Bering Strait is 44 miles, the same distance as Washington

is to Baltimore. That's how close the United States is to Russia," Abel said.

"Clearly, we have to cooperate."

Commissioner of the Canadian Coast Guard Jeffery Hutchinson, speaking at the Sea-Air-Space, said the Arctic is "not as frozen as it once

was, but from where we sit, there's still lots of ice."

The U.S. and Canada work closely with the other Arctic nations, as members of the Arctic Coast Guard Forum. "We all understand the

vastness in the Arctic, in the ice, on the seas and on the land. It requires

everyone to pull together," Hutchinson said. "There isn't an Arctic nation that

with pride and humility.

One important way nations cooperate in through scientific research and environmental data collection. This fall the German research

icebreaker Polarstern will get stuck in the Arctic ice on purpose, and drift

for a year as teams of 600 scientists and researchers from 17 countries rotate

on and off the ship to collect data that would otherwise be impractical or

impossible. The Multidisciplinary drifting Observatory for the Study of Arctic

Climate (MOSAiC) will study the Arctic climate system and how it relates to

global climate models. The U.S., Canada, Denmark, Finland, Iceland, New

Zealand, Norway and Sweden are participating in the International Cooperative

Engagement Program for Polar Research (ICE-PPR), which shares in the

development and use of polar sensors and remote sensing techniques, data

collection, environmental modeling and prediction, and associated human factors

involved in operating in the extreme latitudes. The Canadian Armed Forces are

leading the multinational Joint Arctic Experiment.

### Survival Gets Personal

While the places of the far north — like Alaska, Greenland, or Nunavut — are enormous, and major the research efforts being conducted there

require many people working together, the bottom line for any military

operation or scientific project there comes down to personal survival.

The real enemy is the Arctic itself. In 2015, two experienced polar explorers, Marc Cornelissen and Philip de Roo, fell through

the ice while on an expedition to measure sea ice thickness.

Maj. Gary Johnson from the Canadian Army Doctrine and Training Mobility command runs the Canadian Arctic Training Center in Resolute,

which served as a base for Operation NANOOK-NUNALIVUT 2019 and the Joint Arctic

Experiment. As a logistician, he said any military activity in the far north

must address mobility, sustainability and survivability. "Whatever we do, it

has to be deliberate; it has to be planned. It's an environment that can take

your life if you don't respect it."

Johnson looks at it as a crawl-walk-run situation. "Up here, crawl means survive. The next phase is to operate, and the end goal is to thrive.

During NANOOK-NUNALIVUT, platoons traveled by snowmobile to secure a landing zone while other soldiers built ice shelters and igloos. As

part of the Joint Arctic Experiment, researchers monitored the soldiers for

frostbite, which in the -60 degree Celsius temperatures can

affect exposed skin in two minutes.

# Eyes, ears and voice of the North

The vast majority of the people in the Canadian North are indigenous, which has implications for Canadian Armed Forces operations in the

North. In fact, the face of the Canadian Armed Forces in the north is

indigenous.

Canada has 1,800 Canadian Rangers, a component of the Reserve, most of whom are indigenous.

The Canadian Armed Forces are represented in every community through

the Ranger program. They are not only Canadian Armed Forces Reservists, but

they're also selected by their communities. So within their communities,

they're seen as leaders and examples to the young people, respected by their

peers and the people in their villages. "That level of connection is invaluable,

because they're the eyes and ears and voice of the North," said Brig. Gen. Patrick

Carpentier, commander, Joint Task Force North. "They connect to us on a

constant basis. So it's a sensor that we wouldn't otherwise have for what is

going on in different communities in the north. Our expectations are

that they will be masters of the terrain around their own communities and they

will be able to spot anything that changes, and pass word back to the  $\mathbf{1}^{\text{st}}$ 

Canadian Rangers Patrol Group headquarters, and on to Joint Task Force North

headquarters in Yellowknife.

"We are on the land of the Inuit," said Carpentier. "We look to them to bring their traditional knowledge to us as we conduct operations in

the North. Nothing we do here would be possible without the Rangers."

"It's not a matter of they need our support," said Hutchinson. "Rather we need their support, their knowledge and understanding."

Edward Lundquist traveled to Yellowknife and Tukyoyaktuk, Northwest Territories, and Resolute, Nunavut, to report this story.