THE ONLY DEDICATED, REGIONAL, MULTI-DOMAIN FORUM FOR NATO AND ARCTIC NATIONS



ENHANCING CAPABILITIES TO COMBAT TOMORROW'S ARCTIC THREATS

2024 SPEAKERS INCLUDE:



Admiral Daryl
Caudle
Commander
US Fleet Forces
Command
US Navy



Lieutenant General Carl-Johan Edström Chief of Joint Operations Swedish Armed Forces



Lieutenant General David Nahom Commander US Alaskan Command



Vice Admiral Andrew Burns Fleet Commander Royal Navy



Rear Admiral Henrik Ryberg Admiral Danish Fleet Royal Danish Navy Command

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WELCOME

Dear Colleague,

As global warming causes profound changes in the geography of the Arctic, strategic interest in the region is rising, presenting renewed challenges for the nations that operate within the High North. The growing geopolitical instability, militarisation, and rise of competition in the region means the Arctic is set to become a key operational area for many of its nations, making collaboration with NATO to maintain the Deterrence and Defence Posture even more essential.

The harsh and remote nature of Arctic territories requires careful navigation, and all domains must adapt to remain innovative in their approaches to utilising advancements in technology. Nations are increasing their research into the use of UAVs and satellite communications in the Arctic, while icebreakers and maritime patrol aircraft are in high demand to ensure the security of our allies' coldest regions. There remains much scope for improvements and learning in these areas, making the sharing of knowledge more important than ever as we look to counter the threats arising from the new access routes in the Arctic.

Arctic Security 2024 provides an invaluable opportunity to hear from regional actors and industry as they discuss how they are addressing the complex challenges of maritime operations in freezing waters, preparing land forces for Arctic climates, and the development of new technologies that are suitable for use in these remote territories.

Our first day will examine the threat landscape of the region and the observations from the latest cold-weather exercises, including Nordic Response and Freezing Winds, as well as the ongoing naval operations that are countering these emerging issues. We will then move on to discuss the integration of land and air forces in such operations during our second day, which will also explore the need for increased technological innovation and international collaboration as cold-weather operations become more common for all forces.

The growing importance of the region in the next decade is undeniable and allies can no longer rely on the Arctic remaining an area of low tension. Bringing experts from a variety of fields together to share ideas, studies, and create a dialogue around the future of Arctic operations is essential. Arctic Security 2024 provides the ideal platform for these discussions and will facilitate productive exchanges on the most urgent matters concerning the defence of Arctic territories.

We look forward to welcoming you to Copenhagen in April!

Kind regards,





Gillian Foote Conference Producer Defence iQ

Join us at Arctic Security 2024 to:



Hear from
leading Arctic
Commands who
are actively facing
the challenges of the
region, including the
need for improved
naval capabilities
that can adapt to the
harsh environments
of the Arctic



Improve understanding of emerging threats in the Arctic, such as the increased accessibility due to climate change, and learn how nations are overcoming these through specialised training and new capabilities



Get updates from the latest coldweather exercises, including Nordic Response and Freezing Winds, to discover the key observations and how these can be applied to future operations



Hear about
upcoming
requirements from
Nordic states and
their procurement
plans as the
Arctic becomes
more important to
their strategy and
operations



Engage in productive dialogues with senior military leaders and industry partners to foster new connections across the Arctic regions and beyond that can lead to enhanced cooperation and improved security for allies

EARLY CONFIRMED SPEAKERS INCLUDE



Admiral Daryl Caudle
Commander
US Fleet Forces Command
US Navy



Lieutenant General
Carl-Johan Edström
Chief of Joint Operations
Swedish Armed Forces



Lieutenant General
David Nahom
Commander
US Alaskan Command



Vice Admiral Andrew Burns Fleet Commander Royal Navy



Rear Admiral Henrik Ryberg Admiral Danish Fleet Royal Danish Navy Command



Rear Admiral Megan Dean Commander, 17th District US Coast Guard



Rear Admiral
Georg Lárusson
Director General
Icelandic Coastguard



Major General
Øyvind Johan Kvalvik
Deputy Director General
Norwegian Defence
Materiel Agency



Major General lain Huddleston Commander, 1 Canadian Air Division Royal Canadian Air Force

"THE ARCTIC REGION CARRIES SIGNIFICANT STRATEGIC INTEREST: MARITIME ROUTES, RESOURCE ACCESS, CLIMATE CONSERVATION, AND TERRITORIAL CLAIMS, THE HIGH NORTH IS AN IMPORTANT PRIORITY FOR NATO."

NATO ALLIED COMMAND TRANSFORMATION

EARLY CONFIRMED SPEAKERS INCLUDE



Brigadier General Patrik Gardesten Deputy Chief Swedish Royal Navy



Brigadier Duncan Forbes Commander, 3 Commando Brigade **Royal Marines**



Commander Brian May Associate Centre Director, Atlantic Research Centre **Defence Research and Development Canada**



Dr Thomas Douglas Senior Scientific Technical Manager, U.S. Army Cold Regions Research and **Engineering Lab US Army Engineer Research and Development** Center (ERDC)



Dr Henning Heiselberg Senior Scientist DTU



Senior Representative (subject to final confirmation) **Netherlands Marine Corps Royal Netherlands Navy**



Senior Representative Threat Integration Staff Officer **US Army G-2**



Nicolas Jouan Senior Analyst **RAND Europe**



Anita Parlow Author, Advisor **University of Oxford -District of Columbia**

DAY ONE — TUESDAY 23 APRIL

CHANGING ARCTIC PRIORITIES

With large changes in the geography of the Arctic rapidly altering the way that nations operate in the region, allies must reconsider their approach to activity in the Arctic and ensure that they can protect their sovereignty from nefarious activity. Day one will examine the Arctic's renewed importance to the defence of its nations and the ways in which they are addressing the challenges posed by this harsh environment through increased cold-weather operations.

0800	REGISTRATION AND REFRESHMENTS	
0850	DEFENCE iQ WELCOME Gillian Foote, Conference Producer, Defence iQ	
0855	CHAIRMAN'S OPENING REMARKS	
EMERGING THREATS IN ARCTIC REGIONS		
Climate change is allowing increased accessibility to the High North which has prompted more interest in the region from both Russia and China. Allies must now come together to examine this new activity and the potential consequences that it may have if they do not actively address it.		
0900	 HOST NATION ADDRESS: THE ARCTIC AS A KEY REGION FOR DENMARK'S SECURITY → The strategic importance of Denmark's Arctic regions to the security of the nation → Denmark's use of naval capabilities to defend and secure its Arctic waters → Future plans and requirements for the Royal Danish Navy Command as the importance of the Arctic increases 	
==	Rear Admiral Henrik Ryberg, Admiral Danish Fleet, Royal Danish Navy Command	
0930	INDUSTRY INSIGHTS WITH NORTHROP GRUMMAN NORTHROP GRUMMAN	
1000	 CURRENT THREATS IN THE HIGH NORTH AND THE SWEDISH APPROACH TO COUNTERING THEM → Examining the current threat landscape of Sweden's Arctic territories and the potential for hostile action → Coordinating air, land, and naval forces in operations to diffuse threats efficiently → Sweden's increasing cooperation with Nordic allies for Arctic operations Lieutenant General Carl-Johan Edström, Chief of Joint Operations, Swedish Armed Forces 	

MORNING COFFEE AND NETWORKING BREAK

KEY OBSERVATIONS FROM COLD-WEATHER EXERCISES

Nations are increasing their participation in international exercises in cold climates to ensure readiness to act against hostile activity in such regions. These exercises provide important observations that will help to shape future strategies and operations in the Arctic.

1100

1030

ROYAL NAVY ACTIVITIES IN THE HIGH NORTH

- → Observations from the Royal Navy's participation in Nordic Response 2024
- → Strategic importance of the High North to the Royal Navy's activities
- → Ensuring the readiness of personnel for operations in Arctic climates

Vice Admiral Andrew Burns, Fleet Commander, Royal Navy

1130 RESERVED FOR INDUSTRY INSIGHTS 1200 **PANEL DISCUSSION:** INTERNATIONAL COLD-WEATHER EXERCISES

What observations have been noted during the latest cold-weather exercises and how will these impact future operations? Discussions may include:

- → Freezing Winds 2023
- → Joint Warrior 2023
- → Arctic Dolphin 2023

Questions will be opened to the audience

1300 **NETWORKING LUNCH**

SECURING ARCTIC TERRITORIES THROUGH ENHANCED COASTGUARD ACTIVITIES

Coastguard units provide essential support to armed forces by carrying out operations relating to both defence and law enforcement, making them a key component of Arctic security strategies. In particularly, coastguards can act as deterrents in Arctic regions and require specialised capabilities to complete these operations.

1400 US COAST GUARD OPERATIONS IN ALASKA AND THE BERING SEA

- → The role of the US Coast Guard in the protection of US sovereignty and providing mission services in Arctic waters in a changing geo-political and physical environment
- → Key Coast Guard operations in Arctic waters and the challenges posed by increased commercial activity
- → Update on the recapitalisation of the Coast Guard icebreaker fleet and their expected role in the future

Rear Admiral Megan Dean, Commander, 17th District, US Coast Guard RESERVED FOR INDUSTRY INSIGHTS 1430

COORDINATING COASTGUARD OPERATIONS IN ARCTIC WATERS 1500

- → Addressing the challenges of operations in Arctic waters for coastguard activities
- → Iceland's approach to the defence of the nation against emerging threats caused by increased activity in the Arctic
- → Future challenges associated with the changing nature of the Arctic and the Icelandic Coastguard's plans for overcoming them
- Rear Admiral Georg Lárusson, Director General, Icelandic Coast Guard

AFTERNOON TEA AND NETWORKING BREAK 1530

MARITIME CAPABILITIES AND CHALLENGES

Naval capabilities are among the most important for the defence of the Arctic as climate change creates new routes through the ice which has sparked new activity from other actors in the region. Allies will need to overcome challenges including aging icebreaker fleets and increased submarine patrols in order to maintain maritime security in the Arctic.

THE SWEDISH NAVY: EXPERIENCED COLD WEATHER WARFIGHTERS - FROM FROST TO ICE 1600 **BREAKING**

- → Challenges associated with the use of surface vessels in freezing waters
- → Operating marines in all weather conditions
- → Countering future maritime threats in Sweden's territorial waters with flexibility

+ Brigadier General Patrik Gardesten, Deputy Chief, Royal Swedish Navy

RESERVED FOR INDUSTRY INSIGHTS 1630

ARCTIC SURVEILLANCE: FROM SPACE TO SEABED

- → Satellite surveillance imagery for the Danish Arctic Command
- → Seabed optical fibre sensors
- → Monitoring dark ships and critical infrastructures

Dr Henning Heiselberg, Senior Researcher, Head of Center for Security, Technical University of Denmark, DTU Space

CHAIRMAN'S CLOSING REMARKS 1730

END OF DAY ONE 1745

1700

DAY TWO — WEDNESDAY 24 APRIL

ENHANCING CAPABILITIES FOR ARCTIC RESILIENCE

Existing capabilities require enhancement to operate under the freezing conditions seen in the Arctic and will be essential to future operations across air, land, and sea. Throughout our second day, discussions will cover the importance of Arctic readiness across all domains, as well as international cooperation to ensure a comprehensive approach to the security of the High North.

0800 REGISTRATION AND REFRESHMENTS

CHAIRMAN'S OPENING REMARKS 0855

0900

0930

+

1200

ARCTIC SURVEILLANCE AND DETERRENCE

The Arctic's vast area makes surveillance operations increasingly difficult, so many nations are now employing capabilities including uncrewed systems and maritime surveillance aircraft. There are, however, considerations that must be made when operating in freezing temperatures to ensure that surveillance is carried out efficiently.

ENHANCING A COOPERATIVE ARCTIC PRESENCE FOR INTEGRATED DETERRENCE

- → Maintaining an enhance presence
- → Strengthening cooperative partnerships with allies and partners
- → Building a more capable Arctic naval for collective defence

Admiral Daryl Caudle, US Fleet Forces Commander, US Navy

- **DEFENDING US TERRITORIES IN THE HIGH NORTH** → Examining current threats to US security in the High North and ensuring readiness to counter them
- → Coordinating multi-domain operations in Alaska's challenging environment
- → Future key capabilities for military operations in the Arctic

Lieutenant General David Nahom, Commander, US Alaskan Command

ENHANCING CANADA'S AIR CAPABILITIES FOR SURVEILLANCE OPERATIONS 1000

- → Ensuring that air capabilities are prepared for Arctic conditions
- → Canada's approach to overcoming the challenges posed by the harsh climate of the Arctic
- → The importance of air surveillance in the High North for improved awareness of threats as interest in the region rises

Major General Iain Huddleston, Commander, 1 Canadian Air Division, Royal Canadian Air Force

1030 MORNING COFFEE AND NETWORKING BREAK

TRAINING PERSONNEL FOR ARCTIC CLIMATES

Enhanced training, technology, and capabilities will be key to the future success of operations in cold-weather environments as activity increases in the region. Forces will need additional support to operate in these conditions, including more time spent on exercises in the High North.

1100 **ROYAL MARINES' APPROACH TO TRAINING FOR ARCTIC WARFARE**

- → The importance of Camp Viking in training Marines for conflicts in extreme conditions
- → Participation in Arctic exercises and key observations for future operations
- → Essential capabilities for effective cold-weather operations

Brigadier Duncan Forbes, Commander, 3 Commando Brigade, Royal Marines

RESERVED FOR INDUSTRY INSIGHTS 1130

TRAINING FORCES FOR FREEZING ENVIRONMENTS

- → Overcoming the challenges of operating personnel in remote locations
- → The Dutch perspective on operations in the High North for more effective security
- → Considering the capabilities required for cold-weather conflicts

Senior Representative, Netherlands Marine Corps (subject to final confirmation)

1230

NETWORKING LUNCH

DRIVING INNOVATION IN COLD-WEATHER TECHNOLOGIES

Arctic operations rely on specialist technologies that are adapted for use in freezing climates and remote locations. From enhanced situational awareness to improved communications, developing such technology is essential for the effective defence of Arctic regions and the support of personnel operating there.

1330

INVESTING IN NORWAY'S ARCTIC FUTURE

- → Procuring new Arctic capabilities for the Norwegian Armed Forces
- → Future requirements as activity increases in the Arctic
- → Essential cold-weather capabilities for the support of Norwegian operations

H

Major General Øyvind Johan Kvalvik, Deputy Director General, Norwegian Defence Materiel Agency

1400

FUTURE TECHNOLOGIES FOR AMERICA'S ARCTIC OPERATIONS

- → Impact of physical changes in the Arctic on research and operations
- → Providing personnel with essential situational awareness in remote conditions
- → Development plans for future technology as Arctic military activity increases

Dr Thomas Douglas, Senior Scientific Technical Manager, U.S. Army Cold Regions Research and Engineering Lab, US Army Engineer Research and Development Center (ERDC)

1430

ADVANCING CANADA'S ARCTIC OPERATIONS THROUGH EFFECTIVE RESEARCH AND **DEVELOPMENT**

- → Examining Canada's Arctic strategy and its application to maritime operations
- → Canada's commitment to a NORAD modernisation roadmap
- → The Atlantic Research Centre's role in supporting those plans and aiding high-latitude operations of the Canadian Armed Forces as climate change and increased commercial use of the region create new challenges for naval operations

*

Commander Brian May, Associate Centre Director, Atlantic Research Centre, Defence Research and Development Canada

1530

AFTERNOON TEA AND NETWORKING BREAK

INTERNATIONAL COOPERATION IN ARCTIC REGIONS

As interest in the High North continues to rise, cooperation between Arctic states will become increasingly important to ensure the protection allies' interests and territories. By coming together with other Arctic nations, states will ensure more effective surveillance and operations in the region and will be better positioned to protect themselves from nefarious actors.

1600

PANEL DISCUSSION:

HIGH NORTH. LOW TENSION?

- → How can we prevent conflict in the Arctic given the rising geopolitical tensions in the region?
- → How will climate change impact the security of the Arctic in the future?
- → What considerations will be required as the Arctic undergoes both physical and political changes? Questions will be opened to the audience

Panellists include:

Anita Parlow, Author, Advisor, University of Oxford - District of Columbia Nicolas Jouan, Senior Analyst, RAND Europe Threat Integration Staff Officer, US Army G-2

1645

AREAS FOR GREATER COLLABORATION BETWEEN ARCTIC STATES

- → Assessing the impact of international organisations in keeping the Arctic secure
- → Expanding cooperation to include near-Arctic allies for strategic advantage
- → The importance of maintaining relationships between Arctic states as the High North becomes more contested

1715

CHAIRMAN'S CLOSING REMARKS

1730

END OF CONFERENCE

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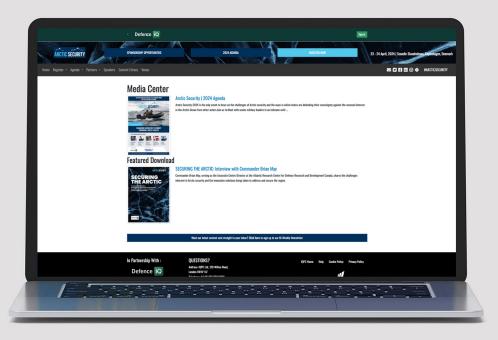
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ENHANCING CAPABILITIES TO COMBAT TOMORROW'S ARCTIC THREATS

