



# Royal United Services Institute of Nova Scotia

## Dispatches

### 16 October 2020

*The Royal United Services Institute of Nova Scotia provides a forum for the study, promotion and debate of defence and security issues.*

*Dispatches* is a weekly collection of links and news of current interest, included those tweeted and posted by the Institute on social media. Links to articles are checked at the time they are put into *Dispatches* but may be unavailable at a later date or in some states other than Canada.

If you are not a routine recipient of *Dispatches* but wish to be so, email the Institute's Chief Information Officer (CIO) at [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com). If you do not want to receive *Dispatches*, or wish to receive it at some different frequency, please inform the CIO. If you wish to receive *Dispatches* at a different address (i.e., not your work address), please inform the CIO. Past editions of *Dispatches* may be requested by contacting the CIO.

Everyone is encouraged to email to the CIO links and other content to be included in *Dispatches*.

Submissions and feedback are welcome anytime. Comments to articles can be from members or non-members of RUSI(NS). Any comment in *Dispatches* is the sole opinion of the author and does not necessarily represent the views of the Canadian Department of National Defence, the Canadian Armed Forces, the Royal Canadian Mounted Police or the Royal United Services Institute of Nova Scotia

RUSI(NS) also publishes:

1. a weekly Dimensions Newsletter, ( formally called *Defence & Security Newsletter*) aimed at opinion leaders and industry. If you are interested in receiving this newsletter, email [admin@duncom.ca](mailto:admin@duncom.ca); and
2. a weekly *China Open Source Newsletter* of articles curated from Chinese military-related websites based inside mainland China. If you are interested in receiving this newsletter, email [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

#### Events:

To list an event in *Dispatches*, email the CIO by noon Thursday. RUSI(NS) events are by invitation only. If you are interested in attending and have not been invited, email [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com). RUSI(NS) events may be cancelled at short notice – email RUSI(NS) if there is a question of an event occurring.

**New: 21 October**, Wednesday - RCN NIOBE Day | Battle of the Atlantic 75th “Virtual” Event. 6:00-7:30 pm EDT. More info at end of *Dispatches*.

**28 October**, Wednesday - RUSI(NS) Distinguished Speaker Cdr Helga Budden, Commanding Officer, Canadian Armed Forces Transition Unit Nova Scotia/Newfoundland and Labrador, will present "Transition – A Step We All Take." 1300-1500, via Zoom. Registration is required. To register, email [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com) by close of business Sun, 25 Oct. Zoom instructions will be emailed by end Mon, 16 Oct.

**18 November**, Wednesday – RUSI(NS)/NORAD & NORTHCOM will host Distinguished Speakers from JTFN and N-NC to present "Arctic Continental Defense: Canada and U.S. Perspectives." 1300-1500, via Zoom. Call for registration to follow.

**New: 9 December**, Wednesday - RUSI(NS) Distinguished Speaker from Canadian Coast Guard, speaking about CCG fleet recapitalization. 1300-1500, via Zoom. Call for registration to follow.

**Recent Publications:**

RUSI(NS) Paper "A Case for Canadian Forces eLearning – Using New Technologies" by Ed Young, 16 September  
<https://rusi-ns.ca/elearning/>

The Military Institute of Windsor Communiqué, Volume XXXVIII Number 9 October 2020 is available on request to [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

The Edmonton United Services Institute President’s Enews October 2020 is available on request to [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

The United Services Institute of Nanaimo and North Island (USINNI) Newsletter Vol 28 No 10 October 2020 is available on request to [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

**Tweeted by @RUSI\_NS:** RUSI(NS) tweets may also be viewed by clicking on the icon at <https://RUSI-NS.ca>. To have something tweeted or retweeted, email the CIO at [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com). Original article title in parentheses.

Seaspan Shipyards @MoreThanShips 9 Oct tweeted and RUSI(NS) retweeted: Signed, sealed and delivered! Today we officially delivered the third Offshore Fisheries Science Vessel to @CoastGuardCAN, completing the first class of ships under Canada's #NationalShipbuildingStrategy. #cdnpoli (Seaspan Shipyards Delivers CCGS John Cabot, Completing First Class of Ships Under Canada’s National Shipbuilding Strategy)  
<https://nss.seaspan.com/featured-news/seaspan-shipyards-delivers-ccgs-john-cabot-completing-first-class-of-ships-under-canadas-national-shipbuilding-strategy/>



Jay Janzen @Jay\_Janzen (BGen Janzen was our May 2019 speaker) 13 Oct tweeted and RUSI(NS) retweeted: Here is a U.S. example of what Military Public Affairs will bring to the fight in current and future conflicts. This requires capability, training, integration with military planning, and motivated professionals. (The War for the Future of Syria and Iraq Will Be Fought on Smartphones)  
<https://foreignpolicy.com/2020/10/04/the-war-for-the-future-of-syria-and-iraq-will-be-fought-on-smartphones/>

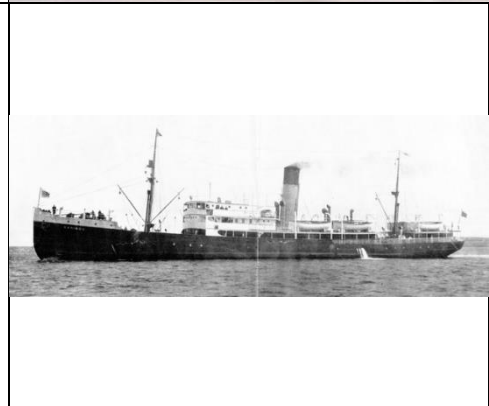


New @RCAF\_ARC #CC295 Kingfisher fixed-wing search&rescue #SAR aircraft will be based #RCAF wings at Comox, Winnipeg, Trenton & Greenwood (see Tech Info: <https://www.canada.ca/en/department-national-defence/services/procurement/fixed-wing-search-and-rescue-procurement-project.html>) essentially replacing #CC115 Buffalo & CC130H Hercules fleets. Detailed distribution to be announced



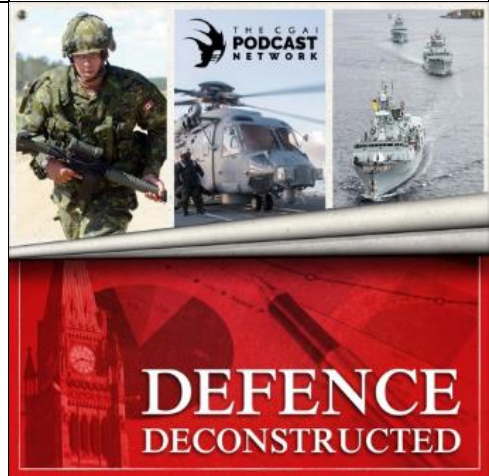
Royal Canadian Navy @RoyalCanNavy 13 Oct tweeted: !FACEBOOK Live stream alert! STAY TUNED tomorrow, October 14, 2020 at 11:00 a.m. EST for the commemoration ceremony of the 78th anniversary of the sinking of Newfoundland ferry SS Caribou, of the Canadian Merchant Navy.

RUSI(NS) retweeted: Marking loss of #Newfoundland ferry SS Caribou during #SWW 14Oct42 is significant because occasion of heroism of Sub-Lieutenant Margaret Brooke, namesake of #HMCSMargaretBrooke, 2nd #Arctic&Offshore Patrol Vessel for @RoyalCanNavy being built by @IrvingShipbuilding



Canadian Global Affairs Institute @CAGlobalAffairs 9 Oct tweeted and RUSI(NS) retweeted: NEW PODCAST: On this episode of #DefenceDeconstructed @DavePerryCGAI is joined by @PaulMaddison7 to compare and contrast Australia's and Canada's defence policies and strategic outlooks  
(Defence Deconstructed – Australia, Canada: Strategic Cousins?)

<https://soundcloud.com/user-609485369/defence-deconstructed-australia-canada-strategic-cousins>



Canadian Coast Guard @CoastGuardCAN🇨🇦 13 Oct tweeted: #CCGProud of the investment announced today that will enable Inuit and First Nation coastal communities in the Arctic and Northern Flag of Canada to receive funding to purchase boats & equipment to enhance their marine safety capacity.

#OceansProtectionPlan <http://ow.ly/J3EX30reNKf>  
RUSI(NS) retweeted: "Under Indigenous Community Boat Volunteer Pilot Program, communities are provided w funding to purchase boats&equip to enhance their marine safety capacity as mbrs of CCG Auxiliary." Great to see Auxiliary enhanced by people of CAN🇨🇦 North/#Arctic. Local people for local strength



(Government of Canada Partnering with Indigenous Coastal Communities to Enhance Marine Safety in Nunavut and Manitoba  
<https://www.canada.ca/en/canadian-coast-guard/news/2020/10/government-of-canada-partnering-with-indigenous-coastal-communities-to-enhance-marine-safety-in-nunavut-and-manitoba.html>)

**Posted on Facebook Royal United Services Institute NS with comments:**

Huawei: MPs claim 'clear evidence of collusion' with Chinese Communist Party  
<https://www.bbc.com/news/technology-54455112>



This is a BBC article discussing UK Government studies into Huawei. The article is an interesting contrast to the lack of transparency by the Canadian Government.

One concern that also affects Canada is the ongoing threats to the UK over the banning of Huawei equipment from the UK telecom network. Canada can expect the same from the Communist Chinese Party (CCP) which has demonstrated a ruthless ability to use multiple means to exact penalties on countries that do not fall into line. This study does mention extensive subsidies from the CCP to Huawei to undercut competitors. The figure for subsidies was estimated to be 75 billion.

Canada has already felt CCP wrath during the Meng Wanzhou issue including hostage diplomacy and economic attacks on selected targets such as canola, pork and beef. The CCP government has had major influence on all Chinese firms and companies. It will use these entities to forward national goals, often to the detriment of the targeted countries. Canada is a prime target. At this point Canada has shown little backbone in dealing with this threat, as pointed by Derek Burney this past week.

Canada's understanding of the threat by the CCP seems very limited. Much of our 'expertise' is based on individuals and organizations that have academic or business interests as opposed to people who are less motivated by personal gain. Canada needs to be less naive and look at any move by the CCP with open eyes especially in regard to our key infrastructure such as telecom and other projects. This is especially important in looking at any project involving the Arctic. This can and will affect our sovereignty. China under the CCP is not a friend to our country, it is an adversary.

PBO to examine \$60 billion price tag of new warships and compare to other less expensive foreign programs  
<https://www.thechronicleherald.ca/news/canada/pbo-to-examine-60-billion-price-tag-of-new-warships-and-compare-to-other-less-expensive-foreign-programs-482874/>



The Parliamentary Budget Officer study of the cost of the Canadian Surface Combatant (CSC) project is due out soon (22 October). Will make for interesting reading. Comparing the CSC frigate to the UK's Type 31 is not quite 'apples to oranges.' The Type 31 is designated as a light frigate, meant more for less demanding patrol tasks and for export to localized maritime states. The Canadian ship will be used for global deployments, high-end patrol and escort tasks, with the potential to be front-line in major conflicts.

US Army catches 'air-launched effect' drones in mid-air using another UAV

<https://www.flightglobal.com/military-uavs/us-army-catches-air-launched-effect-drones-in-midair-using-another-uav/140498.article>



Cool! "Serving as an [air-launched effect] mother ship, the [Gray Eagle Extended Range] will carry multiple [air-launched effects] with a variety of capabilities, the company says. The launching and controlling of [air-launched effects] from [Gray Eagle Extended Range] could potentially increase the survivability and effectiveness of current and future manned aviation systems with intelligence, targeting, communications, jammers, decoys and kinetic effects."

Drone 'warfare' (operations, if you prefer) is getting more and more capable. Canada (not just the Canadian Armed Forces) needs a high-level integrated approach to developing this capability.

US Navy inspections of Ingalls-built ships uncovered significant problems, report shows

<https://www.defensenews.com/naval/2020/10/08/us-navy-inspections-of-ingalls-built-ships-uncovered-significant-problems-report-shows/>



"HII's pointing to rising standards for accepting ships tracks with recent criticism the Navy has faced from both the Government Accountability Office and Congress. Both groups were unhappy about the service accepting ships that were either incomplete or that have significant deficiencies."

After a period of a good number of years, the Royal Canadian Navy is now again accepting ships from civil shipyards. Particularly with first-of-class, it has to be expected that there will be issues and delays. One can be assured that there are strong organizations and standards for ship acceptance. Hopefully those organizations and standards, strengthened with the lessons learned of currently building ships, will be continued under an extended National Shipbuilding Strategy, and there will not be another gap as there was in the last decades. Expertise and procedures are harder to put together again than shipyard infrastructure and their machinery.

The Coast Guard has been often enough accepting ships, especially of late. There have been some media reports criticizing aspects of vessel designs but overall, publicly the acceptances appear to be going well.

Should the US Navy consider buying the Type 26 Super Frigate?

<https://www.youtube.com/watch?feature=youtu.be&v=rTUdmqc1oic&app=desktop>



Ongoing interest in the UK Type 26 frigate. Of course, the USN FFG(X) contract has already been let.

The term 'super frigate' is not an official type designation, though there are historical precedents to the use of 'super' (e.g., Yamato-class super battleships). Not an adjective one normally comes across applied to frigates and other escorts. The Tribal-class destroyers have been called super destroyers, as they were capable of substituting for (and I understand were so meant) light cruisers.

Though it is for the RCN to announce, likely the ships to be built by the Canadian Surface Combatant project will be typed as frigates (FF). Maybe a longer designation such as helicopter-carrying frigate (FFH) will be announced as that has been Royal Canadian Navy practice (acknowledging a close relationship with maritime air). Really, in NATO planning, a full designation is appropriate, ie., the Halifax-class are FFACH - frigate with long range surface-to-surface missile, long-range underwater sensor, and helicopter.

First Sea Lord warns China will exploit thawing Arctic sea routes

<https://www.naval-technology.com/features/first-sea-lord-warns-china-will-exploit-thawing-arctic-sea-routes/>



"...the Royal Navy would also be turning its attention to subsea challenges and threats to undersea cables that carry 97% of the world's data."

A lot of those underseas telecommunications cables cross through the Canadian area of responsibility in the North Atlantic. Do we have the capability to defend them? The Royal Canadian Navy needs strong submarine and diving forces, both a mix of crewed and drone vessels/vehicles. 'Cable wars' could take on a whole new meaning, but still be conducted in conditions less than outright war.

Navy Leaders Sink Ship Names Proposed in SECNAV Modly's Last Days

<https://news.usni.org/2020/04/08/navy-leaders-sink-ship-names-proposed-in-secnav-modlys-last-days>



"Many in the acquisitions community question the efficacy of naming a class of ship before the contract is awarded..."

Something to be said for holding off announcing the name of a warship until construction is assured (the actual naming occurs during a ceremony, previously called a christening, now is done when construction is well progressed, in the case of the Canadian Arctic and Offshore Patrol Vessels, with the ships actually in the water). As naming a warship is a ministerial function, a change of minister can lead to a change of names. That was the Canadian experience with the Queenston-class Joint Support Ship project replenishment oilers, now with a change of government called the Protecteur-class.

So, we may not see a first-of-class name announcement for the Canadian Surface Combatant project ships for some while yet. On the other hand, steel was recently cut for the first of the Naval Large Tug project vessels, with keel-laying to be this November. A name announcement should be expected soon.

Canada's chief science advisor warns coronavirus could still overwhelm health-care system

<https://globalnews.ca/news/7386942/canada-chief-science-advisor-coronavirus-covid-1-overwhelm-health-care-system/>



When I read concerns like in this article about the risk of Canadian hospitals being overwhelmed by COVID-19, I wonder whether the Canadian Armed Forces would be requested to assist by helping with the construction of temporary hospitals. Really, such construction should be a whole-of-government effort. Our National Emergency Strategic Stockpile (<https://www.canada.ca/en/public-health/services/emergency-preparedness-response/national-emergency-strategic-stockpile.html>) used to have a number of "hospital-in-a-box". Are they of any use now?

Chinese Increasing Nuclear Submarine Shipyard Capacity

<https://news.usni.org/2020/10/12/chinese-increasing-nuclear-submarine-shipyard-capacity>



Shipyards are a national strategic industry. Submarine yards more so. And nuclear submarine yards even more than that.

"As China pushes to become a blue-water power..." To be a blue-water navy means to have the infrastructure and more importantly the logistics, especially at sea, to keep ships at sea at long ranges for long periods of time. Having nuclear submarines isn't essential for being a blue-water navy, but certainly helps.

### Margaret Brooke

14 October 1942 – Shortly after 3:14am, nursing sister Sub-Lieutenant Margaret Brooke (age 25) and her fellow nursing colleague Sub-Lieutenant Agnes Wilkie found themselves on the dimly lit deck of the Newfoundland-North Sydney passenger steamship SS CARIBOU witnessing a “terrified mob” – the ship had just been torpedoed in the Cabot Strait by a German U-boat while carrying 237 passengers en route to Port aux Basques, NL. As the SS CARIBOU began to sink, her passengers sought safety in either remaining lifeboats or putting on life belts and jumping into the frigid waters. Though the

minesweeper HMCS GRANDMERE had been escorting the steamer, in accordance with naval orders, she had immediately set off to pursue the U-boat. Margaret and Agnes decided to jump off the ship, but not far enough and were sucked under when it went down. Brooke would later remember in a letter to her brother, “How we got away from her, I don’t know, but we clung together somehow all the time we were under and when we finally reached the surface, we managed to grab a piece of wreckage and cling to that.” They later were able to cling to the ropes of a capsized lifeboat, but soon Agnes would develop hypothermia and died. She was the only nursing sister to die due to enemy action in the Second World War – a war in which 4,480 nursing sisters had enrolled in all three services of the Canadian Armed Forces. Margaret and her fellow survivors (101) were rescued two hours later by the returning HMCS GRANDMERE. 136 people had perished in the sinking. Margaret was later awarded a Member of the Order of the British Empire for displaying “great courage whilst in the water attempting to save the life of another Nursing sister.” In 2015, at age 100, she received a call from the Minister of National Defense to inform her that the second of six Arctic and Offshore Patrol Ships would be named HMCS MARGARET BROOKE, which was later launched on 20 November 2019 and expected to be in full service in 2021. (Photo1: Nursing sister, Sub-Lieutenant Margaret Brooke MBE, 1943. DND/LAC. Photo2: The passenger steamer SS CARIBOU. Archives and Special Collections, Queen Elizabeth II Library, Memorial University of Newfoundland. Sources: Boileau, John. Margaret Brooke, 20 May 2020, Canadian Encyclopedia Online.)



SECNAV Names Attack Boat After WWII USS Barb, DDG for Former SECNAV Lehman

<https://news.usni.org/2020/10/13/secnav-names-attack-boat-after-wwii-uss-barb-ddg-for-former-secnav-lehman>



"Braithwaite announced the two new ship names during an event unveiling plans to construct a new Navy museum in Washington, D.C."

Rather a quiet way to announce warship names, Canada makes much more of a public affair out of announcements.



And the USN naming policy continues to vary. Of course, at times Canada has changed its policies from past practices, seeming to settle on cities, towns and the like, then recently going for names of heroes. What will the announcements of the names for the vessels of Naval Large Tug and Canadian Surface Combatant projects indicate?

#### Defence Procurement - Sustainment Initiative

<https://buyandsell.gc.ca/policy-and-guidelines/policy-notifications/PN-118>









A guest for one of our events is a member of the 'Sustainment Centre of Expertise (Maritime COE)." Interesting organization title. When queried, that person provided the following public info: "Defence Procurement - Sustainment Initiative". From that page: "The Defence Procurement - Sustainment Initiative (SI) is a collaborative undertaking aimed at procuring tailored in-service support solutions for existing and new military equipment. Effective June 8, 2016, every new and existing military maintenance and repair procurement valued at \$20 million or more will follow a coherent and standardized interdepartmental approach guided by the four principles of sustainment: performance, value for money, flexibility and economic benefits. These principles will inform decision making by the applicable Defence Procurement Strategy (DPS) governance committee."

In addition to the PSPC Policy Notification 118 on Sustainment Initiative (SI), other pieces of public communications on SI:

1. DND backgrounder on modernizing defence procurement (SI): "The Sustainment Initiative: How government is modernizing defence procurement" <https://www.canada.ca/en/department-national-defence/news/2017/02/sustainment-initiative-government-modernizing-defence-procurement.html>
2. DAOD 3005-0, Materiel Sustainment: <https://www.canada.ca/en/department-national-defence/corporate/policies-standards/defence-administrative-orders-directives/3000-series/3005/3005-0-materiel-sustainment.html>

**Posted on Facebook Royal United Services Institute NS:** RUSI(NS) postings may be viewed by clicking on the icon at <https://RUSI-NS.ca>. To have something posted or commented, email the CIO by noon Thursday.

 <p><b>RUSI</b> www.rusi.org</p> <p>This Week</p> <p><a href="https://www.facebook.com/Royal-United-Services-Institute-NS-618819224873298/">https://www.facebook.com/Royal-United-Services-Institute-NS-618819224873298/</a></p>	
<p>India works to boost influence in Iran as Beijing-Tehran ties warm</p> <p><a href="https://www.al-monitor.com/pulse/originals/2020/10/india-iran-ties-singh-jaishankar-china-beijing-chabahar-port.html">https://www.al-monitor.com/pulse/originals/2020/10/india-iran-ties-singh-jaishankar-china-beijing-chabahar-port.html</a></p>	
<p>The US Military Is About to Launch Its Largest 5G Experiments Yet</p> <p><a href="https://www.defenseone.com/technology/2020/10/us-military-about-launch-its-largest-5g-experiments-yet/169148/">https://www.defenseone.com/technology/2020/10/us-military-about-launch-its-largest-5g-experiments-yet/169148/</a></p>	
<p>North Korea Unveils 'Very Destabilizing' ICBM</p> <p><a href="https://www.defenseone.com/threats/2020/10/north-korea-unveils-very-destabilizing-icbm/169178/">https://www.defenseone.com/threats/2020/10/north-korea-unveils-very-destabilizing-icbm/169178/</a></p>	
<p>Finland gets the green light to buy F-35, F-18 and billions of dollars in weapons</p> <p><a href="https://www.defensenews.com/global/europe/2020/10/09/finland-gets-the-green-light-to-buy-the-f-35-or-super-hornetand-billions-of-dollars-in-weapons/">https://www.defensenews.com/global/europe/2020/10/09/finland-gets-the-green-light-to-buy-the-f-35-or-super-hornetand-billions-of-dollars-in-weapons/</a></p>	

Turkey plans live-fire exercise, missile defense tests

<https://www.upi.com/Defense-News/2020/10/09/Turkey-plans-live-fire-exercise-missile-defense-tests/6231602266298/>



Taiwan claims entrapment after China shows spy 'confession'

<https://www.reuters.com/article/us-china-taiwan/taiwan-claims-entrapment-after-china-shows-spy-confession-idUSKBN26X076>



An undersea cable deal with Chile showcases Japan's quiet efforts to counter China around the Pacific

<https://www.businessinsider.com/japan-undersea-cable-deal-chile-shows-engagement-in-latin-america-2020-10>



India's First Indigenous Air-Launched Radar-Killing Missile Is Headed For Service

<https://www.thedrive.com/the-war-zone/36988/indias-first-indigenous-air-launched-radar-killing-missile-is-headed-for-service>



Keep an Eye on Taiwan

<https://www.defenseone.com/ideas/2020/10/keep-eye-taiwan/169175/>



What could Turkey's latest S-400 missile tests mean?

<https://www.aljazeera.com/news/2020/10/12/what-could-turkeys-latest-s-400-missile-tests-mean>



British Army admits more delays in fielding enough combat forces

<https://www.defensenews.com/global/europe/2020/10/12/british-army-admits-more-delays-in-fielding-enough-combat-forces/>



France orders beefed-up NH90 choppers for special operations

<https://www.defensenews.com/global/europe/2020/10/12/france-orders-beefed-up-nh90-choppers-for-special-operations/>



India's Nirbhay cruise missile test fails

<https://www.defensenews.com/global/asia-pacific/2020/10/12/indias-nirbhay-cruise-missile-test-fails/>



We Take A Closer Look At North Korea's New Prototype Main Battle Tank

<https://www.thedrive.com/the-war-zone/37017/we-take-a-closer-look-at-north-koreas-new-prototype-main-battle-tank>



See the new weapons unveiled at North Korea's military parade

<https://www.defensenews.com/global/asia-pacific/2020/10/12/see-the-new-weapons-unveiled-at-north-koreas-military-parade/>



Artificial Intelligence, Surveillance and Reconnaissance for the Royal Canadian Navy

<https://vanguardcanada.com/2020/09/30/artificial-intelligence-surveillance-and-reconnaissance-for-the-royal-canadian-navy/>



Turkey-Ukraine work on missile engine could open the door to tech transfer

<https://www.defensenews.com/industry/techwatch/2020/10/13/turkey-ukraine-work-on-missile-engine-could-open-the-door-to-tech-transfer/>



Canadian block on drone parts shows Turkey's defense industry still not independent




<https://www.defensenews.com/global/europe/2020/10/13/canadian-block-on-drone-parts-shows-turkeys-defense-industry-still-not-independent/>



Japan says it will strengthen missile defense after North Korean military parade

<https://www.washingtonexaminer.com/news/japan-says-it-will-strengthen-missile-defense-after-north-korean-military-parade>



<p>Japan launches first of its new class of submarines</p> <p><a href="https://www.defensenews.com/naval/2020/10/14/japan-launches-first-of-its-new-class-of-submarines/">https://www.defensenews.com/naval/2020/10/14/japan-launches-first-of-its-new-class-of-submarines/</a></p>	
<p>China Conducts Test Of Massive Suicide Drone Swarm Launched From A Box On A Truck</p> <p><a href="https://www.thedrive.com/the-war-zone/37062/china-conducts-test-of-massive-suicide-drone-swarm-launched-from-a-box-on-a-truck">https://www.thedrive.com/the-war-zone/37062/china-conducts-test-of-massive-suicide-drone-swarm-launched-from-a-box-on-a-truck</a></p>	
<p>Philippine plan to deploy militia in South China Sea raises concerns</p> <p><a href="https://www.upi.com/Top_News/World-News/2020/10/14/Philippine-plan-to-deploy-militia-in-South-China-Sea-raises-concerns/5391602685139/">https://www.upi.com/Top_News/World-News/2020/10/14/Philippine-plan-to-deploy-militia-in-South-China-Sea-raises-concerns/5391602685139/</a></p>	

**Other Sources:** Recommendations for ‘themes’ (e.g., #drones) to list in this section are welcome.

**#armour**

Survive: The Case for Armour

<https://wavelroom.com/2020/10/08/survive-the-case-for-armour/>

**#augmented reality**

Removing The Soldier From The Battlefield

<https://wavelroom.com/2019/03/19/removing-the-soldier-from-the-battlefield/>

**#command**

We Need to Talk About the Burden of Command

<https://fromthegreennotebook.com/2020/10/10/we-need-to-talk-about-the-burden-of-command/>

**#drones**

An Enduring Impasse on Autonomous Weapons

<https://www.justsecurity.org/72610/an-enduring-impasse-on-autonomous-weapons/>

**#drones #robots**

Grapeshot and Grenadiers: Winning the Counter-Robot Battle

<https://researchcentre.army.gov.au/library/land-power-forum/grapeshot-and-grenadiers-winning-counter-robot-battle>

### **#information operations**

Disinformation and misinformation campaigns - the Australian context

<https://researchcentre.army.gov.au/library/land-power-forum/disinformation-and-misinformation-campaigns-australian-context>

### **#logistics**

Future road logistics

<https://defense-and-freedom.blogspot.com/2020/10/future-road-logistics.html>

### **#military education**

Sustaining an Intellectual Overmatch: Management Education for Our Naval Warfighters

<http://cimsec.org/sustaining-an-intellectual-overmatch-management-education-for-our-naval-warfighters/45172>

### **#operational art**

Operations Short Of War And Operational Art – Analysis

<https://www.eurasiareview.com/03102020-operations-short-of-war-and-operational-art-analysis>

### **#planning**

It's Time to Update the Military Decision-Making Process

<https://fromthegreennotebook.com/2020/10/12/its-time-to-update-the-military-decision-making-process/>

### **#Royal Canadian Navy**

Your Navy Today - September 2020

<http://www.navy-marine.forces.gc.ca/en/news-ynt/2020/09-your-navy-today.page>

### **#space**

US Must Weigh 'Strategic Impacts' Of Arming The Heavens: Aerospace

<https://breakingdefense.com/2020/10/us-must-weigh-strategic-impacts-of-arming-the-heavens-aerospace/>

and

A Roadmap for Assessing Space Weapons

[https://aerospace.org/sites/default/files/2020-10/Gleason-Hays\\_SpaceWeapons\\_20201005\\_1.pdf](https://aerospace.org/sites/default/files/2020-10/Gleason-Hays_SpaceWeapons_20201005_1.pdf)

and

Spacepower Capstone Doctrine

[https://www.spaceforce.mil/Portals/1/Space%20Capstone%20Publication\\_10%20Aug%202020.pdf](https://www.spaceforce.mil/Portals/1/Space%20Capstone%20Publication_10%20Aug%202020.pdf)

Hard Work and Creativity Pays Off! Polar Epsilon 2 Celebrates a Key Milestone

<https://www.canada.ca/en/department-national-defence/maple-leaf/defence/2020/07/hard-work-creativity-pays-off-polar-epsilon-2.html>

### **#strategy**

Grand Strategy is Total: French Gen. André Beaufre on War in the Nuclear Age

<https://warontherocks.com/2020/10/grand-strategy-is-total-french-gen-andre-beaufre-on-war-in-the-nuclear-age/>

### **#submarines**

Top 10 Books on Submarines

*For anyone wanting to design a sub...* <https://www.marineinsight.com/naval-architecture/top-10-books-on-submarines/>

## #war

Logic and Grammar: Clausewitz and the Language of War

<https://thestrategybridge.org/the-bridge/2020/10/9/logic-and-grammar-clausewitz-and-the-language-of-war>

COVID-19 and the Masters of War (Part 1)

<https://wavellroom.com/2020/10/09/covid-19-and-the-masters-of-war-part-1/>

## #warfare

Australian Army Research Centre Emerging Threats and Opportunities 13 October 2020

<https://researchcentre.army.gov.au/library/land-power-forum/emerging-threats-and-opportunities-23>

## Other:

### RCN NIOBE Day | Battle of the Atlantic 75th “Virtual” Event - 21 Oct 2020



#### Agenda (subject to change)

1. Opening Remarks (*Lieutenant-Commander Kray Robichaud*, Event Host, RCN)
2. Welcome Address (*Rear-Admiral Chris Sutherland*, Deputy Commander, RCN)
  - Commander RCN Video – significance of NIOBE Day | BoA75 (*Vice-Admiral Art McDonald*, Commander, RCN)
3. NIOBE Day – history and landmark beginnings of Naval Service in Canada (*Chris Perry*, Command Historian, RCN)
  - Battle of the Atlantic 75<sup>th</sup> (BoA75) – history of BoA75 (*André Kirouac*, Director, Naval Museum of Québec | Naval Reserve Headquarters)
4. RCN BoA75 Commemorative Events in 2020 (*Capt(N) Réal Brisson*, BoA75 Coordinator, RCN)
5. BoA75 personal stories shared as per below:
  - Harry Hurwitz (99 yrs old) – one of only two remaining survivors of the sinking of HMCS ATHABASKAN (29<sup>th</sup> Apr 1944); Story as shared by *Commander Scott Healey* and daughter *Debbie Hurwitz*
  - Walter Slade (King’s Commendation for Bravery Conduct posthumously) – Canadian Merchant Navy – served aboard SS GRAYBURN, subsequently died from injuries sustained in a U-Boat attack (29<sup>th</sup> Jun 1941); Story as shared by Great-Niece, *Krista Slade*, CLaSmate of the Arctic CLaS program in HMCS VILLE DE QUEBEC (Aug 2019)
  - William Topping, CD – served with Vice-Admiral Henry George “Harry” DeWolf aboard the RCN’s Ceremonial Flagship HMCS HAIDA to the conclusion of WWII; Story as shared by Grandson, *Jeff Topping*, CLaSmate of the CLA & CLaS programs in HMCS YORK (Apr 2019) and HMCS CALGARY (Sep 2019)



- William Anthony “Tony” Paddon, OC – served in the RCNVR as a Surgeon Lieutenant-Commander during WWII, primarily in corvettes but also in minesweepers and the Frigate HMCS TEME; Story as shared by son *Honorary Captain (Navy) Tom Paddon*, CLASmate of the CLaS program in HMCS VILLE DE QUEBEC (Nov 2016)

6. “59 Steps to the Crow’s Nest” Video Trailer (42 sec) – advanced sneak peek of a documentary video produced by the Crow’s Nest Officer’s Club, St. John’s, NL - telling the story behind the origin of the club (27<sup>th</sup> Jan 1942), the significant role it played during the Battle of the Atlantic and continued existence to *present day* . . . 78 years later:

- Digital release of full video (32 mins 40 sec) - 10<sup>th</sup> Nov 2020

7. RCN BoA75 Featured Video

8. Q&A

9. Closing Address and Remarks (Deputy Commander, RCN | Event Host, RCN)

10. Open Social

A formal *virtual* invite will be forwarded in the next couple business days.

Please feel free to share this *Save the Date* – if so, those interested will be required to register with the undersign to receive a formal *virtual* invite.

**Registration** – to [Kray.Robichaud@forces.gc.ca](mailto:Kray.Robichaud@forces.gc.ca) – please include your name and professional details (i.e. position/title & organization).

## HMCS NIOBE



**Niobe Day** is celebrated by the RCN on the 21st day of October each year. Called Trafalgar Day by the Royal Navy, **Niobe Day** marks the arrival of His Majesty’s Canadian Ship (HMCS) **Niobe** in Halifax on October 21, 1910, the first Canadian warship to enter Canada’s territorial waters, and a landmark event in the beginnings of the Naval Service of Canada.

Year 2020 marks the 75<sup>th</sup> Anniversary of the end of the **Battle of the Atlantic (BoA75)**. The battle began on the opening day of the war in September 1939 and ended almost six years later with Germany’s surrender in May 1945. The battle claimed 22 Canadian Navy ships along with 59 merchant ships, including 4,600 Canadian lives.

Please note, between 14-21 Oct, the RCN national accounts on **Facebook**, **Twitter** and **Instagram** will post special programming, beginning with enhanced coverage (via live-streaming) on **Wed, 14<sup>th</sup> Oct @ 11:00 am EDT** - Vice-Admiral Art McDonald, Commander, RCN will participate in a largely “*virtual*” ceremony at the RCN National Monument, marking Merchant Navy Veterans Day (3<sup>rd</sup> Sep 2020) - by commemorating the anniversary of the sinking of SS Caribou - torpedoed by German submarine U-69 (3:51 am NDT, 14<sup>th</sup> Oct 1942). This will be followed by periodic programming

throughout the week, culminating with content to be released throughout the day on 21<sup>st</sup> Oct including a historical overview of key victories and events, and posts from naval units across Canada celebrating *Niobe Day*.

- **Facebook** - [RoyalCanadianNavy](#) | [MarineRoyaleCanadienne](#);
- **Twitter** - [@RoyalCanNavy](#) | [@MarineRoyaleCan](#); and
- **Instagram** - [RoyalCanNavy](#) | [MarineRoyaleCan](#).

Members of the One Navy team (i.e. YOU) are encouraged to join the conversation (before, during and after) and use the following Hash Tags:

- **#BOA75**;
- **#CanadaRemembers**;
- **#RCNRemembers**; and
- **#BattleoftheAtlantic**.

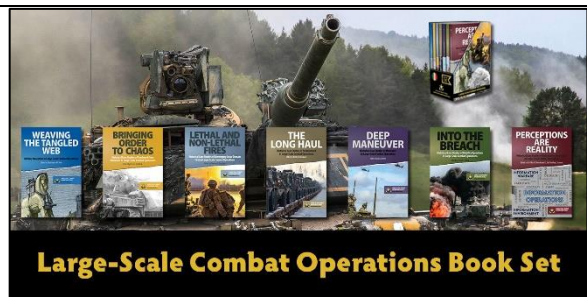
Additionally, while supplies last - Battle of the Atlantic 75<sup>th</sup> Anniversary “*commemorative coins*” and “*lapel pins*” are available for purchase at [Canex stores](#) online – an excellent keepsake and/or gift!

Link to additional information related to BoA75 - <http://www.navy-marine.forces.gc.ca/en/navy-life/history-boa-75th.page>

Should you have any questions, please let me know, I can be reached via my mobile device, call or text [902-440-6131](tel:902-440-6131) or my work email [Kray.Robichaud@Forces.gc.ca](mailto:Kray.Robichaud@Forces.gc.ca) or office phone [902-427-1549](tel:902-427-1549).

## Large Scale Combat Operations

Army U Press on Twitter: “The Large Scale Combat Operations book set is available for download from AUP. The books highlight important challenges facing the Army through case studies that go beyond doctrine and concepts, providing insights, perspectives and lessons learned.”



<https://www.armyupress.army.mil/Books/Large-Scale-Combat-Operations-Book-Set/>

Weaving the Tangled Web

Military Deception in Large-Scale Combat Operations

Bringing Order to Chaos

Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations

Lethal and Non-Lethal Fires

Historical Case Studies of Converging Cross-Domain Fires in Large-Scale Combat Operations

The Long Haul

Historical Case Studies of Sustainment in Large-Scale Combat Operations

Deep Maneuver

Historical Case Studies of Maneuver in Large-Scale Combat Operations

Into the Breach

Historical Case Studies of Mobility Operations in Large-Scale Combat Operations

Perceptions Are Reality

Historical Case Studies of Information Operations in Large-Scale Combat Operations

The Competitive Advantage

Special Operations Forces in Large-Scale Combat Operations

The Last 100 Yards

The Crucible of Close Combat in Large-Scale Combat Operations

**Maritime Engineering Journal** Fall 2020

<http://www.cntha.ca/static/documents/mej/mej-94.pdf>

contents:

The Royal Canadian Navy's "Digital Navy" Initiative

"EW in a Box" – Engineering a Modular Electronic Warfare Solution for the RCN from Conception to Deployment

GPS Performance for Ships in the Arctic

Underwater Gravity-based Navigation for Long-range AUV Missions

The Naval Engineering Test Establishment's Support for RCN Innovation with Unmanned Systems – Halifax Detachment Activity:

Part 1: NETE Unmanned Systems Centre of Excellence

Part 2: A NETE Advanced Development Model for a Maritime Multi-Domain Control System (MMDCS) for Unmanned Systems

Part 3: NETE Acquires Unmanned Systems for its Maritime Multi-Domain Control System (MMDCS) Project IMCS Development for the Canadian Patrol Frigate – A Poster Project for RCN Innovation

### **The Department of National Defence and Canadian Armed Forces update – October 13**

Colleagues and Partners in Defence,

I hope you and your loved ones enjoyed a safe and happy Thanksgiving weekend.

You've heard us say that our people are at the heart of everything we do. This is the cornerstone of *Strong, Secure, Engaged*. No matter their role, we rely on a healthy, engaged, and resilient workforce to safeguard Canadians, protect North America, and be a reliable ally and partner.

October is Canada's Healthy Workplaces Month. It is a time to re-affirm our values and ensure we remain focused on the health and wellbeing of our people. Working as a member of the Defence Team can come with unique challenges and pressures even at the best of times, and this year has been especially difficult for many of us. We have all felt the impact of the COVID-19 pandemic. As cases begin to rise once again, we are encouraging our people to access the resources they need to support their own mental health.

Also critical to a healthy workplace is creating an environment where everyone feels safe, welcome, and respected. Across the Department of National Defence and the Canadian Armed Forces, our senior leaders are working hard to create a workplace that is free from hateful conduct and discrimination.

Last month, the Canadian Army released a new order on hateful conduct. The Royal Canadian Navy and Royal Canadian Air Force will also issue their own directives this week.

These directives will clarify and reinforce the following:

- that hateful conduct goes against everything the CAF stands for and will not be tolerated
- that not reporting hateful conduct to a superior makes one complicit in the act
- what constitutes hateful conduct
- how incidents should be investigated, reported, and tracked
- what administrative and disciplinary actions can be taken
- how victims should be supported

You also may have seen that last month, DND [initiated a hiring process](#) to increase representativeness of Black Canadians, Indigenous peoples and people of colour on our leadership team at the executive level. We received more than 450 applications during the process, which closed on Sept 25.

Throughout the HR process, DND will provide feedback so that non-successful applicants can address any gaps and progress further in their careers. These are all part of comprehensive efforts to build a safe and inclusive organization.

Other efforts include our work to eliminate sexual misconduct in the ranks, which will enhance our deliberate and sustained effort at all levels of our organization. Last week, Statistics Canada released results from its survey on sexual misconduct and discrimination across Canada's military colleges. The overall results are deeply concerning. Women in military colleges reported witnessing or experiencing sexualized behaviours more often than women in civilian postsecondary institutions. They were also more likely to have been sexually assaulted. This survey, although very disappointing, provides important insights to inform a future course of action, so that we can provide better education, training, and protection for our students. The military colleges are working with the Sexual Misconduct Response Centre to better educate students about appropriate versus unacceptable behaviour. They have also put in place additional measures to turn their campuses into safer learning and living environments for all.

Across the Defence Team, we are committed to building healthier workplaces for our people: workplaces where we take active steps to support their wellbeing, and where they are treated with dignity and respect at all times. Whether it's flu shots and practicing COVID-wise public health measures; providing mental health resources; or tackling the incredibly difficult social issues harming our people, we must do all in our power to give them the care they deserve.

As a society, we also need to have frank and open conversations about mental health. People are being challenged like never before due to isolation, physical health concerns, substance use concerns, financial and employment uncertainty, and the emotional dialogue around racial equality. Health Canada recently partnered with some of Canada's leading mental health organizations to launch the [Wellness Together Canada portal](#), which provides free online mental health resources for Canadians. This is a resource for all Canadians who may be struggling, including our Defence Team members. I would invite you to take a look and share with your networks.

Take good care,

Quinn Watson

Director, Outreach and Speechwriting  
Assistant Deputy Minister (Public Affairs)  
Department of National Defence | Government of Canada

US Army **Combined Arms Research Library** Research Guides  
<https://carlrgsc.libguides.com/c.php?g=920994>