



Royal United Services Institute of Nova Scotia

Dispatches

10 September 2021

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 news of interest, including posts to social media by the Institute. Links to articles are checked at the time they are put into *Dispatches* but may be unavailable at a later date or in some countries other than Canada.

Everyone is encouraged to submit links and other content to be included in *Dispatches*. Submissions and feedback are welcome anytime. Email to RUSINSDispatches@gmail.com. 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 or other government department, the Canadian Armed Forces, the Royal Canadian Mounted Police or the Royal United Services Institute of Nova Scotia.

If you wish to receive *Dispatches* at a different address (i.e., not your work address), please inform RUSI(NS). Past editions of *Dispatches* may be requested by contacting RUSI(NS).

Due to staff availability, there will be no *Dispatches* 17 and 24 September 2021, and likely none 1 October 2021.

Volunteers wanted and needed as content providers, social media posters and *Dispatches* co-editors.

Events:

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

14 September, Tuesday - Georgetown University Wargaming Society presentation by LTC Thorsten Kodalle, "Educational Wargaming at the German Command & Staff College." 1-3 pm ADT. To register (free): <https://www.eventbrite.com/e/educational-wargaming-at-the-german-command-staff-college-tickets-151113756313>.

New: 14 September, Tuesday - USNORTHCOM and William J. Perry Center for Hemispheric Defense Studies Distinguished Speaker General Glen D. VanHerck, Commander, NORAD and USNORTHCOM, speaking on "Homeland Defense is a Global Endeavor." 1530-1700 Eastern time. Via Zoom. To register: https://www.zoomgov.com/webinar/register/WN_V3nI2I2nSdOM_rXUb4nTRA. See end of *Dispatches*.

New: 16 September, Thursday - USNORTHCOM and the Command's 'The Watch' Magazine, United States European Command, United States Indo-Pacific Command and the Center for Arctic Security and Resilience, University of Alaska Fairbanks Distinguished Speaker Arctic eTalks with Lieutenant General David A. Krumm; Commander, Alaskan Command, USNORTHCOM; Eleventh Air Force, Pacific Air

Force, and Alaskan NORAD Region. 1200 EST. To register: https://alaska.zoom.us/webinar/register/WN_vzqv3HyMTe2BToJXCxV_g. See end of *Dispatches*.

19 September, Sunday - Battle of Britain Commemoration 2021 (Ottawa), 10 am Ottawa time. Comd RCAF in attendance. To access event: www.facebook.com/RCAF/ARC. For questions, contact director@airforce.ca (613-612-7223).

New: 21 September, Tuesday - Evenings @ Government House with Professor Marc Milner presenting on the D-Day campaign and the role that Canadians played in the operation that turned the tide of the Second World War. 7-8 pm (arrival time 6:30-6:50 pm. Government House, 1451 Barrington Street, Halifax. Free. To register: <https://lt.gov.ns.ca/news-events/evenings-government-house/2021-09-21/professor-marc-milner-returns-present-d-day> or call 902-424-7001.

New: 29 September, Wednesday – RUSI(NS) and RUSI(NS)-NORAD & USNORTHCOM Distinguished Speaker John Spykerman, Director, Russia Team, Global Engagement Center, US Department of State, on "Information Resilience: Countering Russian Propaganda and Disinformation." 1300-1500. Via Zoom. Attendance will be limited. To register, email RUSUI(NS) with RUSI(NS) Distinguished Speaker 29 September 2021 Registration as subject line.

30 September – 28 October, consecutive Thursdays – Canadian Institute for Military and Veteran Health Research Virtual Forum on Serving Military, Veteran, Family, and Public Safety Personnel. Each year, CIMVHR works to engage existing academic research resources, facilitate new research, increase research capacity, and foster knowledge translation. This work is showcased each year, when thought leaders from the government, academia, industry and philanthropic sectors gather at our Forum to present new research, exchange ideas, share insight, learn and collaborate. Free of charge and open to everyone as a virtual opportunity to learn, to connect and to serve those who serve. To register: <https://cimvhrforum.ca/>

12 October, Tuesday - Georgetown University Wargaming Society presentation by Robert Engen, Assistant Professor, Canadian Forces College, titled "Going to the Ground: Virtual Games at the Canadian Forces College." 7-9 pm ADT. To register: <https://www.eventbrite.com/e/going-to-the-ground-virtual-games-at-the-canadian-forces-college-tickets-168279688077>

New: 20 October, Wednesday – RUSI(NS) Distinguished Speaker Dr Sarah Locker, on the “The Casualty Identification Program: Identifying the remains of Canadian soldiers from the First and Second World Wars and the Korean Conflict.” 1300-1500. Via Zoom. Attendance will be limited. To register, email RUSUI(NS) with RUSI(NS) Distinguished Speaker 20 October 2021 Registration as subject line.

New: 23 October, Saturday - Edmonton United Services Institute, 700 (City of Edmonton) Wing RCAF Association and Royal Alberta United Services Institute Symposium "Unmanned Vehicles in War and Peace." 0830-1600 Edmonton time. See: <https://rausi.ca/info-events/upcoming-events/rausi-event/eusi-2021-security-and-defence-symposium>

New: 27 October, Wednesday – RUSI(NS) Distinguished Speaker RAdm Brian Santarpia, Commander Maitime Forces Atlantic, on Canadian maritime and naval strategy. 1300-1500. Via Zoom. Attendance will be limited. To register, email RUSUI(NS) with RUSI(NS) Distinguished Speaker 27 October 2021 Registration as subject line.

Recent Publications:

Except where otherwise indicated, publications are available on request to RUSINovaScotia@gmail.com.

RUSI(NS) Comments "The Rohingya – An Open Letter to Canadian Policymakers" by Jay Heisler, 5 August 2021,

<https://rusi-ns.ca/rohingya-refugee/>

RUSI(NS) Position Paper "The RCAF and Canada Need a Bomber Squadron – A Large Water Bomber Squadron", 30 July 2021,

<https://rusi-ns.ca/water-bomber-squadron/>

RUSI(NS) Post "Policing and the Pandemic", 26 July 2021,

<https://rusi-ns.ca/policing-and-the-pandemic/>

RUSI(NS) Presentation "Arctic Special Operations" by Brigadier-General SR Satterfield, 21 July 2021,

https://rusi-ns.ca/arctic_special_operations/

New: Canadian Marine Industries and Shipbuilding Association *On Watch*, 8 September edition

https://send.successbyemail.com/prvw_message2.aspx?chno=cb19ae34-3527-4a7e-a306-73011a370bb2

New: Edmonton United Services Institute President's *ENews*, September 2021.

New: Macdonald-Laurier Institute Policy Brief "The need for transatlantic solidarity in the face of today's security challenges" 31 August 2021

https://macdonaldlaurier.ca/files/pdf/20210811_NATO_solidarity_Thiele_Sannikov_Waschuk_COMMENTARY_FWeb.pdf

Military Institute of Windsor *Communiqué*, Volume XXXIX Number 8 September 2021.

Nautical Professional Education Society of Canada Newsletter *Seatimes*, August 2021.

New: Royal Alberta United Services Institute Research Brief "Iranian–Israeli Drone Warfare, Diplomacy and the Alberta Connection" by LJ Howard, August 2021,

https://rausi.ca/images/edocman/research/Research_Brief_Vol_2_Iss_4_Iranian_Israeli_Drone_Warfare.pdf

New: Royal Alberta United Services Institute *Dispatches* September 2021

<https://rausi.ca/component/acym/archive/79-rausi-dispatches-september-2021?userid=306-QqXJ7Ylxzfzfd0M&tmpl=raw>

Royal Alberta United Services Institute *News* July-September 2021

<https://www.rausi.ca/news/publications?idU=4>

New: Royal Canadian Naval Association Admiral Hose Branch *Scuttlebutt*, September 2021 Edition.

New: Royal United Services Institute of Vancouver Island *Newsletter*, Volume 53, 4th Quarter - August/September 2021.

Royal United Services Institute Victoria (Australia) *Newsletter*, Volume 20, Issue 2, June/July 2021.

New: Royal United Services Institute Victoria (Australia) *Occasional*, Volume 8, Issue 1, 6 September 2021.

New: United Services Institute of Nanaimo and North Island *Newsletter*, Vol 29 No 09, September 2021.

University Naval Training Divisions Association of Canada *Gunroom Shots*, Volume 2, Issue 3, July 2021.

New: Shubenacadie Search Update

video: <https://www.youtube.com/watch?v=FWs6zBm4g-w>

"A video outlining the preliminary results of the search at the site of the former residential school site at Shubenacadie."

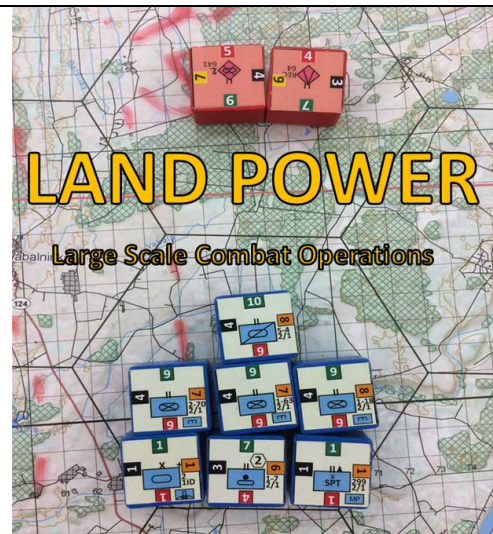
Dr Fowler, lead of the search, will be our Distinguished Speaker when conditions allow, probably later 2022. He will speak about structures, including a Cornwallis fort, underlying Royal Artillery Park.

Wargaming Opportunity

Sebastian Bae @SebastianBae 4 Sep tweeted: Mike Dunn, a great colleague and wargamer @USACGSC, will be virtually conducting LANDPOWER -- a US Army designed educational wargame -- for @GUWargaming on Nov 30, 6-8PM EST. Register here:

<https://forms.gle/NYmJqdcbsKiHgWi7>

A fun (and educational) opportunity for the land types amongst us?



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 RUSINovaScotia@gmail.com.

The Naval Association of Canada @navalassn 28 Aug tweeted: Famed historian Jack Granatstein asks if the RCN has enough ships? Read his article published in Legion Magazine.

(Enough ships?

<https://legionmagazine.com/en/2021/07/enough-ships/>)

"Enough" depends on what Canadians want their country & therefore their Forces to do in the world. Answer that, then professionals, Forces leadership, can propose numbers. Then politicians counter with budgetary limits. "Enough" has different meanings, ultimately compromise



RUSI(NS) @RUSI_NS Aug 8 tweeted: "Old-school Martin Mars water bomber not included in B.C.'s modern firefighting fleet" <https://globalnews.ca/news/8095328/bc-no-martin-mars-water-bomber/> Would a national operated water bomber fleet be more effective approach now? <https://rusi-ns.ca/water-bomber-squadron/> "RCAF & Canada Need a Bomber Squadron–A Large Water Bomber Squadron" RUSI(NS) retweeted: .@TimesColonist article "Comment: Why the Martin Mars water bomber has been sidelined" <https://www.timescolonist.com/opinion/op-ed/comment-why-the-martin-mars-water-bomber-has-been-sidelined-1.24354205>



Commander UK Carrier Strike Group @smrmoorhouse 3 Sep tweeted and RUSI(NS) retweeted: The #CSG21 task group welcomes @HMCSWinnipeg. The @RoyalNavy and @RoyalCanNavy have a long and rich history of operating together and this is just another example of the international by design nature of #CSG21. #CSG21 joined ships from the @JMSDF_PAO for EX PACIFIC CROWN



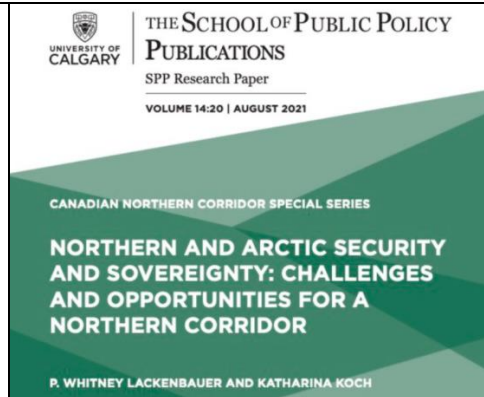
Ranger Hoodie @rangerhoodie 31 Aug tweeted and RUSI(NS) retweeted: The planned engagement in September near Resolute will also involve the Canadian Rangers #Vigilans (U.S. icebreaker departs on a voyage that will transit the Northwest Passage <https://nunatsiaq.com/stories/article/u-s-icebreaker-departs-on-a-voyage-that-will-transit-the-northwest-passage/>)



Canadian Armed Forces Operations @CFOperations Sep 4 tweeted: People in need evacuated, First Responders transported, vital materials delivered, over 400 flight hours and approximately 625 CAF members rotating through BC since July 4, 2021. RUSI(NS) retweeted: Operation LENTUS = @CanadianForces assistance to province(s) in response to natural disaster(s) <https://www.canada.ca/en/department-national-defence/services/operations/military-operations/current-operations/operation-lentus.html> CANCAnneeds to ensure #CAF retains (whilst focused on combat) capabilities to support provinces, especially with transport & logistics, in domestic emergency ops



The Naval Association of Canada @navalassn 9 Sep tweeted and RUSI(NS) retweeted: The University of Calgary's School of Public Policy is examining the potential for economic corridors in Canada. Their latest publication looks at Challenges and Opportunities for a Northern Corridor. @policy_school
<https://journalhosting.ucalgary.ca/index.php/sppp/article/view/72084/55069>
(Northern and Arctic Security And Sovereignty: Challenges and Opportunities for a Northern Corridor)



Jay Janzen @Jay_Janzen 7 Sep tweeted and RUSI(NS) retweeted: It isn't just social media that can be manipulated by malign actors. Many types of information are being targeted. New study from Cardiff University. (Pro-Kremlin trolls target news website comments, researchers say)
<https://www.bbc.com/news/uk-58441662>



NAADSN_RDSNAA @NAADSN_RDSNAA 30 Aug tweeted and RUSI(NS) retweeted: Our latest policy brief, written by NAADSN Graduate Fellow Nicholas Glesby, reflects on the status of the U.S.-Canada Permanent Joint Board on Defence (PJBD) in the current complex continental threat environment on its 81st anniversary. Read it at: <https://naadsn.ca/research/>
(North American and Arctic Defence and Security Network Research)



NATO Association of Canada @NATOCanada 31 Aug tweeted and RUSI(NS) retweeted: During operations in #Afghanistan, mustering enough qualified linguists proved a constant challenge for the @CanadianForces. Christopher Maternowski explores the larger problems with how Canada approaches strategic languages. Read it here: <https://natoassociation.ca/language-lessons-fate-of-afghan-interpreters-exposes-gaps-in-canadian-armed-forces-training-and-recruitment/>
(Language Lessons: Fate Of Afghan Interpreters Exposes Gaps In Canadian Armed Forces Training And Recruitment)



Drone missile vessel

Department of Defense @DeptofDefense 3 Sep 21 tweeted: See the game-changing, cross-domain, cross-service concepts the Strategic Capabilities Office and @USNavy are rapidly developing: an SM-6 launched from a modular launcher off of USV Ranger. Such innovation drives the future of joint capabilities. #DoDInnovates



Video: <https://twitter.com/DeptofDefense/status/1433852377870839808>

It is getting increasingly interesting, the meanings of warship, fleet structure and balanced navy.

Professor Anne-Marie Brady @Anne_MarieBrady 5 Sep tweeted: Getting inside the enemy's decision-making cycle, so that leaders make faulty decisions, is a core goal of CCP foreign interference. Useful study by US Army on PLA operating tactics includes an excellent section on CCP psych ops/political warfare

<https://irp.fas.org/doddir/army/atp7-100-3.pdf>

(ATP 7-100.3 [August 2021] Chinese Tactics)

ATP 7-100.3

CHINESE TACTICS

AUGUST 2021

DISTRIBUTION RESTRICTION: Approved for public release, distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

Posted on Facebook Royal United Services Institute of Nova Scotia:

RUSI(NS) postings may also be viewed by clicking on the icon at <https://RUSI-NS.ca>. To have something posted or commented, email RUSI(NS) by noon Thursday.

U.S. Army Watercraft: Lost at Sea

<https://gcaptain.com/u-s-army-watercraft-lost-at-sea-opinion/>

The US Army is selling off tugs, barges and logistics and harbour service vessels (aside: apparently and ironically the US Army has long had more vessels than the US Navy).



These types of vessels are important for a balanced and capable navy. One wonders whether staffs in the Canadian naval headquarters and material branch considered procuring from the US Army to meet Canadian requirements. Probably they did, as that is what staffs do. And not to imply that the Naval Large Tug project and 400-series barge replacement project haven't and aren't delivering satisfactorily. Still, there may be here an opportunity to augment the Canadian marine fleets (not just our navy), noting what calls (e.g., disaster response operations) there are these days on service vessels.

- - -

From a tug designer: The 128' tug they are selling isn't a modern ship docking tug. It's for coastal towing. The spec sheet doesn't mention Z-drives so it's likely twin screw.

The pointy bow and small fenders would severely deform the plating of any modern warship.

From a boat builder: That has been our problem for many years. US dumps off its old stuff and Canada laps it up. Latest example are the Safe Boat Defender-class the RCN scooped up on the West Coast. 20-year old boats in terrible condition and marginal performance.

From a retired CCG project director: Bear in mind that the \$billions in capital funding provided by the National Shipbuilding [Procurement] Strategy is primarily intended as an economic stimulus package to support Canadian shipbuilders and their Canadian sub-contractors. The secondary benefit is modernizing the RCN and CCG fleets to reduce future capital requirements. Not sure how buying up aging US military assets achieves those objectives, unless they are filling some immediate domestic deficiency ...

The high cost of ignoring a children's peace and security agenda in Afghanistan

<https://www.thestar.com/opinion/contributors/2021/08/25/the-high-cost-of-ignoring-a-childrens-peace-and-security-agenda-in-afghanistan.html>



"The concept of moral injury is still being debated by experts, though it has been described as an injury to one's core being and sense of self, resulting from actions that violate core moral values and expectations of self or others. "

"The lessons of Afghanistan must include an assessment on the need to prioritize children and implement the Vancouver Principles, to protect future generations of soldiers as well as children worldwide. To continue to ignore the criticality of children in a global peace and security agenda will ultimately result in our failure in future missions and development efforts."

RUSI(NS) has had a number of briefs on child soldiers:
Child Soldiers – Perspectives of Halifax Regional Police

<https://rusi-ns.ca/child-soldiers-perspectives-halifax-regional-police/>

and

Veteran Trainers to Eradicate the Use of Child Soldiers

<https://rusi-ns.ca/vtecs/>

The evolving role of warships in the 21st-century navy

<https://www.naval-technology.com/features/the-evolving-role-of-warships-in-the-21st-century-navy/>



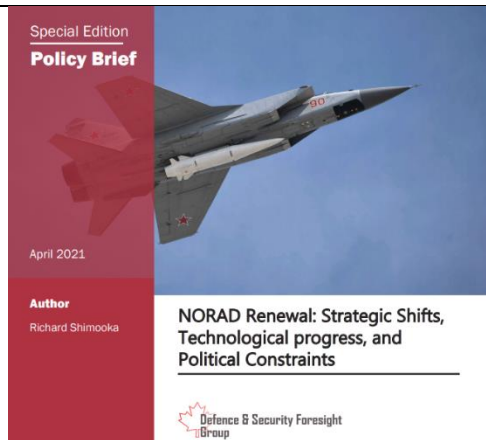
"Containerised assets also offer navies the option of readily reconfiguring civilian ships. This not only offers additional capability but could operate in a part of the world where a discrete, low observable, potentially deniable vessel would be preferable to an overt warship."

Reconfiguring civilian ships to warships is a (the?) traditional way of augmenting a state's navy. There are many naval roles (e.g., port guardship, humanitarian logistics service, theatre anti-submarine surveillance) that can well be filled by reconfigured ships. Canada's maritime strategy will do well to look at the nation's vessels as an entirety, and prepare to reconfigure and employ civilian ships (government and private) for national needs.

The 'balance' of our navy needs to be able to change quickly and flexibly as world conditions rapidly change around us.

NORAD Renewal: Strategic Shifts, Technological progress, and Political Constraints

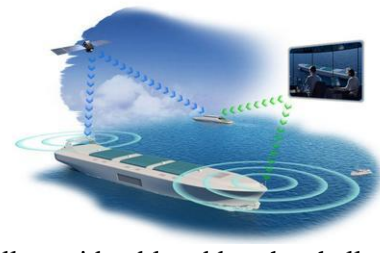
https://uwaterloo.ca/defence-security-foresight-group/sites/ca.defence-security-foresight-group/files/uploads/files/policy_brief_2_dsfg_special_edition_policy_brief_shimooka_3_1.pdf



First Autonomous Cargo Ship Faces Test With 236-Mile Voyage

<https://gcaptain.com/first-autonomous-cargo-ship-faces-test-with-236-mile-voyage/>

Not many years now before there will be large numbers of autonomous cargo ships in coastal and ocean waters. Now, that will considerably add to the challenge of naval activities whether routine operations, exercises or conflict.



CAF Air Task Force on fighting B.C.'s wildfires

<https://skiesmag.com/news/caf-air-task-force-fighting-bc-wildfires/>

The utility of tactical aviation in domestic emergency response situations.



Germany readies frigates for ballistic missile defense missions

<https://www.defensenews.com/global/europe/2021/08/24/germany-readies-frigates-for-ballistic-missile-defense-missions/>

"The new radars would elevate the ships' surveillance and target-tracking capabilities for various aerial threats, including ballistic missiles, ..."

The definition of a frigate blurs as capable sensors and weapons are included in their outfits. One shouldn't get terribly spun up if the Canadian Surface Combatant (CSC) project ships (likely to be typed as frigates) have, or can be readily modified to have, an anti-ballistic missile capability. For one, ballistic missiles are now tactical weapons, and frigates will need to be able to defend high-value target against ballistic missile attack. Two, having the capability doesn't necessarily mean that Canadian authorities would permit employment of the CSC ships for ballistic missile defence unless the authorities so wanted.



Putting the “War” Back in War Colleges

<https://www.city-journal.org/putting-the-war-back-in-war-colleges>



Huntington Ingalls Industries Celebrates Ceremonial First Cut of Steel for the Aircraft Carrier Doris Miller (CVN 81)

<https://newsroom.huntingtoningalls.com/releases/doris-miller-first-cut-steel>



"During a small ceremony held inside of a manufacturing facility, Thomas Bledsoe, the great nephew of the ship's namesake, gave the order to “cut that steel” to shipbuilder Gerald Bish, who operated a large plasma-cutting machine that sliced into a steel plate. Shipbuilders, U.S. Navy leadership, elected officials and Doris Miller's relatives signed their names on the plate."

Interesting to compare the traditions of countries for naval ship ceremonies. It is the shipbuilder who is responsible, albeit with much collaboration with naval and government authorities, for a cutting-steel ceremony (akin to the traditional keel-laying, necessitated as modern ships can be block-built without keels). What traditions are followed depends on the parties involved, and do evolve with the times. In Canada, who gives what order to start the cutting machine has not normally got coverage. Rather, normally the ship sponsor or a senior naval authority afterwards pronounces the traditional 'keel well and truly laid.' And signing names on the plate (or welding initials to a keel) is a US tradition. In Canada, the tradition is to place a coin on (weld it to) the keel. In the end, it is for the same effect, to mark a significant day in a ship's life and remind everyone that the occasion is part of something bigger and longer lasting. See RUSI(NS) Information Note "Keel-Laying" (<https://rusi-ns.ca/keel-laying-2/>).

ICON and TMD Unveil 3D-printed Barracks to House Women & Men During Military Training in Texas

<https://www.iconbuild.com/updates/icon-and-tmd-unveil-3d-printed-barracks-to-house-women-and-men>



"The 3D printing process is being evaluated for suitability as an expeditious solution to enable printing of facilities in forward deployed locations, potentially reducing time, cost and construction risks."

Hopefully there are Canadian companies and government organizations looking into using 3D printing of infrastructure (maybe for the Arctic?). Looks like lots of potential.

The Growing Risk of Militarized Unmanned Submersible

<https://www.maritime-executive.com/editorials/the-growing-risk-of-militarized-unmanned-submersibles>

"While the successful control of UUV proliferation is not impossible, states must also prepare for the adverse outcome and develop effective and efficient counter-UUV strategies and technologies."



Anti-submarine warfare gets even more complicated. Good things ASW is the strong point of the Royal Canadian Navy.

Other Sources:

#Arctic

Exploring Gaps in Arctic Governance: Identifying Potential Sources of Conflict and Mitigating Measures

<https://rausi.ca/research/research/449-exploring-gaps-in-arctic-governance-identifying-potential-sources-of-conflict-and-mitigating-measures>

Deep Dive Debrief: Strategic Stability and Competition in the Arctic

<https://rausi.ca/research/research/448-deep-dive-debrief-strategic-stability-and-competition-in-the-arctic>

Ice Curtain: Why Is There a New Russian Military Facility 300 Miles from Alaska?

<https://rausi.ca/research/research/447-ice-curtain-why-is-there-a-new-russian-military-facility-300-miles-from-alaska>

#Canadian strategy

Why Does Canada Need an Indo-Pacific Strategy as Part of Its Foreign Policy?

<https://www.airuniversity.af.edu/JIPA/Display/Article/2726941/why-does-canada-need-an-indo-pacific-strategy-as-part-of-its-foreign-policy/>

#China

Australia and the growing reach of China's military

<https://www.lowyinstitute.org/publications/australia-and-growing-reach-china-s-military>

#cyber operations

Fire When Ready, CTN1!

<https://blog.usni.org/posts/2021/07/19/fire-when-ready-ctn1>

#maritime security #legal

Deliberate ambiguity of China's new "territorial waters" declaration

<https://www.lowyinstitute.org/the-interpreter/deliberate-ambiguity-china-s-new-territorial-waters-declaration>

#NATO

Article 5: From the Cold War to 9/11 to Today

<https://atlantic-forum.com/content/article-5-cold-war-911-today>

#naval strategy

(subject of our October 2021 Distinguished Speaker)

Evolution of U.S. Navy Roles in NATO: Always an Important Part of a Larger Whole

https://www.cna.org/CNA_files/PDF/Evolution-of-US-Navy-Roles-in-NATO-Always-an-Important-Part-of-a-Larger-Whole.pdf

Historical Paper Series: Considerations for US Naval and Military Strategy

<https://www.cna.org/centers/cna/sppp/spa/swartz-papers>

Naval Strategy and Operations with Dr. Milan Vego

<https://cimsec.org/sea-control-273-naval-strategy-and-operations-with-dr-milan-vego/>

Note the listing of his books and articles:

Operational Warfare at Sea: Theory and Practice

Exercising Control of the Sea: Theory and Practice

Maritime Strategy and Sea Denial: Theory and Practice

General Naval Tactics: Theory and Practice

On Littoral Warfare

Naval Strategies in Narrow Seas

#training

Use Virtual Reality to Prepare Maritime Crews For Terrorist and Piracy Attacks

<https://cimsec.org/use-virtual-reality-to-prepare-maritime-crews-for-terrorist-and-piracy-attacks/>

#war

The Distress Cycle of American Military Conflicts

<https://angrystaffofficer.com/2021/08/23/the-distress-cycle-of-american-military-conflicts/>

#warfare

The debris of an organisation – thinking about how the ADF recovers from the first losses of war: Part One

<https://logisticsinwar.com/2021/08/29/the-debris-of-an-organisation-thinking-about-how-the-adf-recovers-from-the-first-losses-of-war-part-one/>

#wargames

It's Time to Rethink Our Wargames

<https://inkstickmedia.com/its-time-to-rethink-our-wargames/>

Moral Choices Without Moral Language: 1950s Political-Military Wargaming at the RAND Corporation

<https://tnsr.org/2021/09/moral-choices-without-moral-language-1950s-political-military-wargaming-at-the-rand-corporation/>

#veterans

To Honour All: Care for Veterans

<https://wavelroom.com/2021/08/11/to-honour-all-veterans-funerals/>

"Too many veterans are passing away alone ..." Editor: *I believe this is being addressed in Canada.*

CWGC marks Merchant Navy Day

<https://www.cwgc.org/our-work/news/cwgc-marks-merchant-navy-day/>

Some people may not be aware that the Commonwealth War Graves Commission so honours the Merchant Navy (3 September annually).

Other:

Canadian Defence Academy *The Torch* Previous Articles

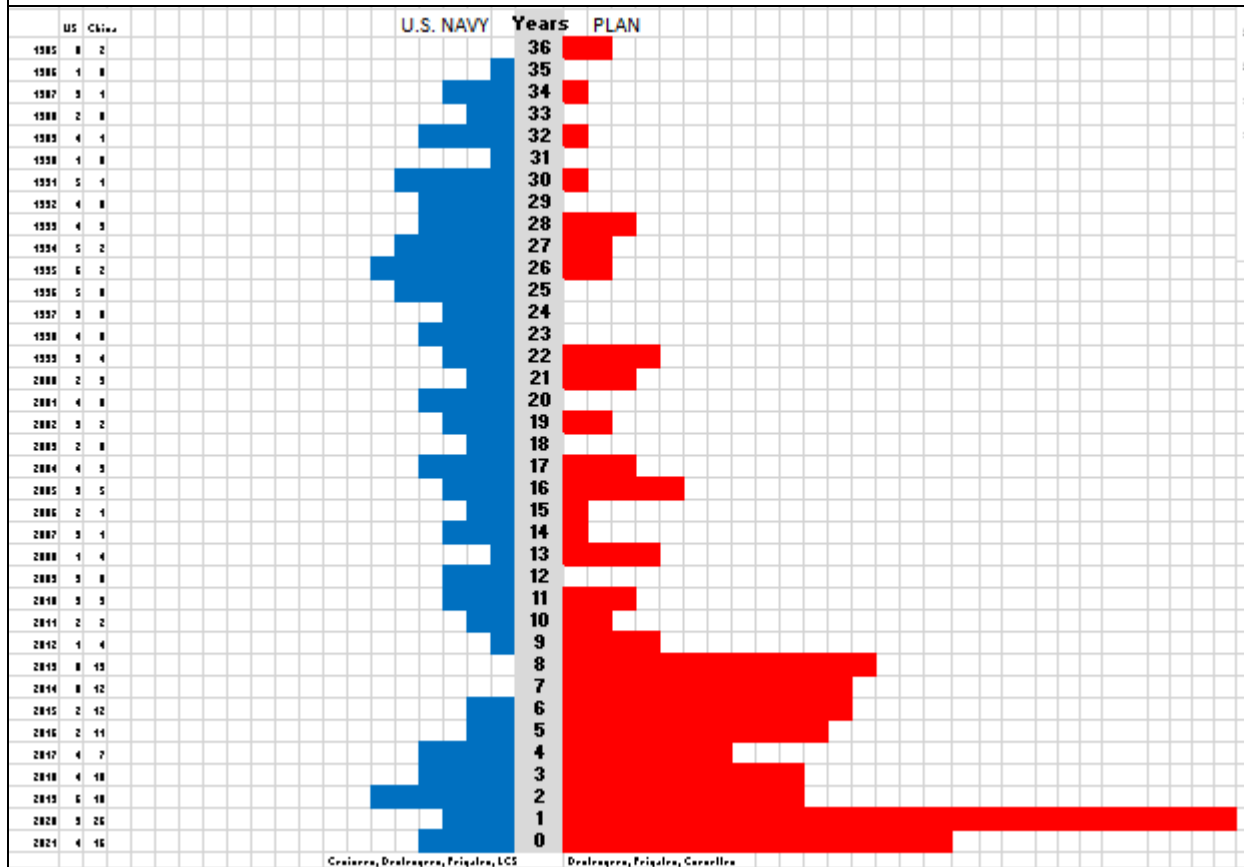
<https://cfc->

ca.libguides.com/c.php?g=709488&p=5087787&preview=8d01d4c58cd1fa4b02bc759f34e935be

Fleet ages

Claude Berube @cgberube 5 Sep 21 tweeted: Age representation of commissioned US vs PLA/N surface combatants (CGs, DDGs, frigates, LCSs & corvettes), 1985-2021 (est). (2021 numbers are estimates) China has a very young, growing fleet. The US doesn't. (any calculation errors are mine alone)

What would the RCN fleet age distribution look like?



Contact - Air, Land & Sea, **The Australian Military Magazine**
<https://issuu.com/contactpublishing/docs/contact71/94>

The William J. Perry Center for Hemispheric Defense Studies
&
USNORTHCOM "The Watch" Command Magazine
present

Homeland Defense is a Global Endeavor
A Conversation with General Glen D. VanHerck

Gen. Glen D. VanHerck
Commander, NORAD and USNORTHCOM

LTG (ret.) Frederick S. Rudesheim
Director, William J. Perry Center

14 September 2021, 1530 EST / 1330 MT (ZoomGov)
** This event will be conducted in English with simultaneous Spanish interpretation **

The Watch eTalk 14 September 2021

Distinguished Speaker:

Gen. Glen D. VanHerck, Commander, NORAD and USNORTHCOM - Homeland Defense is a Global Endeavor

Moderator:

[LTG \(ret.\) Frederick S. Rudesheim](#), Director, William J. Perry Center for Hemispheric Defense Studies

See: <https://williamjperrycenter.org/content/homeland-defense-global-endeavor-0>

September 14, 2021 - 15:30 to 17:00 (Eastern)

Registration Link: https://www.zoomgov.com/webinar/register/WN_V3nl2I2nSdOM_rXUb4nTRA

The William J. Perry Center for Hemispheric Defense Studies is partnering with USNORTHCOM and the Command's *The Watch* Magazine on a Homeland Defense (HD) Speaker Series which brings together WJPC professors, its alumni network, and the greater security and defense community for discussion and exchange in a virtual format. The event includes a 30-minute presentation with slides which will be followed by a 60-minute Q&A session (non-attribution).

North American Aerospace Defense Command (NORAD) conducts aerospace warning, aerospace control, and maritime warning in the defense of North America. United States Northern Command (USNORTHCOM) defends our homeland - deters, detects, denies, and defeats threats to the United States, conducts security cooperation activities with allies and partners, and supports civil authorities.

This event is open to the public - Registration is required.

V/r,
Marshall Smith, DAFC
NORAD and USNORTHCOM IO/ J39
USNORTHCOM Focal Point Control Officer

“The Watch” Command Magazine, United States Northern Command, United States European Command, United States Indo-Pacific Command and the Center for Arctic Security and Resilience



Present

Arctic eTalks

A monthly forum for open discussion (non-attribution) on key issues affecting the Circumpolar Arctic for academics, defense and security professionals, and military leaders of the Canada, Kingdom of Denmark, Finland, Iceland, Norway, Sweden and the United States, as well as the United Kingdom and Germany

Partners:

 Defence Science and Technology Laboratory United Kingdom	 NATO Strategic Communications Centre of Excellence	 Royal Danish Defence College
 George C. Marshall European Center for Security Studies	 North American and Arctic Defence and Security Network	 United States Coast Guard
 Joint Task Force (North) Canadian Armed Forces	 Norwegian Institute for Defence Studies	 William J. Perry Center National Defense University
 Ministry of Defence United Kingdom	 Norwegian Institute of International Affairs	

Registration required:
Link provided in the email invitation

Thursday, September 16th, 2021
0800 AK/1000 MT/1200 EST/1800 CET

Contact for more information:
casr@alaska.edu

Strong Partnerships are Integral to Defending Our Homelands

United States Arctic Security Defending the Northern Approaches



Featuring:

Lieutenant General David A. Krumm

- Commander - Alaskan Command, U.S. Northern Command
- Commander - Eleventh Air Force, Pacific Air Forces
- Commander - Alaskan NORAD Region

Arctic eTalks September 2021

On behalf of USNORTHCOM and the Command’s “[The Watch](#)” Magazine, United States European Command (USEUCOM), United States Indo-Pacific Command (USINDOPACOM), and the Center for Arctic Security and Resilience ([CASR](#)) - University of Alaska Fairbanks, we would like to invite you to our September 2021 Arctic eTalks distinguished speaker presentation on "United States Arctic Security: Defending the Northern Approaches" by Lieutenant General David A. Krumm, Commander, Alaskan Command, USNORTHCOM; Eleventh Air Force, Pacific Air Force, and Alaskan NORAD Region on Thursday, September 16, 2021 at 0800 AK/ 1000 MT/ 1200 EST/ 1800 CET.

The Arctic eTalks is a monthly forum for open discussion (non-attribution, Chatham House Rule) in key issues affecting the Circumpolar Arctic for academics, defense and security professional, and military leaders from Canada, Finland, Kingdom of Denmark (Greenland and Faroe Islands), Finland, Iceland, Norway, Sweden, and the United States, as well as the United Kingdom and Germany.

This event is presented along with our valued Arctic eTalks partners at Alaskan Command and Alaskan NORAD region.

Lt. Gen. Krumm is scheduled to provide a 20-minute presentation with slides which will be followed by a 40-minute Q&A session (non-attribution) that will be moderated by Dr. Whitney Lackenbauer, NAADSN Network Lead (plus another person to be confirmed) .

Note: Past Arctic eTalks presentations are posted on our Arctic eTalks [website](#). However, the Q&A discussions are not posted and open only to registered Arctic eTalks participants during the live event.

Please register at the following [link](#) (see attached info also): https://alaska.zoom.us/webinar/register/WN_vzqv3HyMTe2BToJXCxv_g

Event [website](https://www.uaf.edu/casr/activities/etalks_sep_2021.php): https://www.uaf.edu/casr/activities/etalks_sep_2021.php

Our Arctic eTalks partners include:

- Defence Science and Technology Laboratory - [United Kingdom](#)
- George C. Marshall European [Center](#) for Security Studies
- Joint Task Force ([North](#)) - Canadian Armed Forces
- Ministry of Defence of the United Kingdom ([UK MOD](#))
- NATO Strategic Communications Centre of Excellence ([StratCom](#))
- North American and Arctic Defence and Security Network ([NAADSN](#))
- Norwegian Institute for Defence Studies ([IFS](#))
- Norwegian Institute of International Affairs ([NUPI](#))
- Royal Danish Defence College ([fak.dk](#))
- United States Coast Guard (Arctic)
- William J. Perry Center, National Defense University ([NDU](#))

We look forward to your participation. Thank you for your support!

Respectfully,
Dr. Ben and Troy

Dr. Benjamin P. Gochman, DAFC
Chief, Engagements
Arctic, Canada, Mexico, and the Caribbean
Directorate of Operations (N&NC/J39)
HQ NORAD - USNORTHCOM/J3

Troy J. Bouffard
Director - Center for Arctic Security and Resilience
University of Alaska Fairbanks

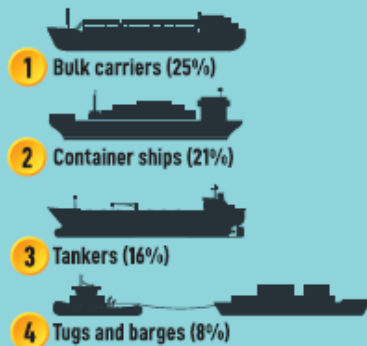


THEFT, ROBBERY AND PIRACY AT SEA (TRAPS)

Total number of incidents: 42 (65 in 2020) **35%↓**



TYPES OF VESSELS ATTACKED:



OBSERVATIONS

- Slow moving vessels with low freeboard (bulk carriers, tankers, and tugs and barges) were the most targeted vessels in the Singapore Strait
- Anchored container ships, tankers, and bulk carriers were the most targeted vessels in Manila and Jakarta Anchorages
- 13 incidents involving armed perpetrators with knives and metal objects were recorded, with 2 resulting in minor injuries
- Incidents are consistent with known modus operandi of petty crime with minimal or no confrontation

EFFECT ON SEAFARERS

No injury (75%) Minor injury (25%)

MARITIME TERRORISM

Total number of incidents: 1 (2 in 2020) **50%↓**

MARITIME INCIDENTS

Total number of incidents: 458 (405 in 2020) **13%↑**

MT INCIDENTS

9 June 2021

Counter Maritime Terrorism incident



OBSERVATIONS

- Sole incident recorded involved the arrest of two perpetrators of an Improvised Explosive Device attack in a counter-terrorism operation in Maldives
- Numbers have decreased compared to 2020 and 2019 over the same period

MAJOR TYPES OF MARITIME INCIDENTS



441 Number of dead/missing
278 Number of search/rescued

TOP 3 AREAS OF INCIDENTS

- 1** Malaysia
- 2** Indonesia
- 3** Philippines



OBSERVATIONS

- Of the 600 vessels involved, 243 (40.5%) were fishing vessels
- Spike of incidents in March and April attributable to bad weather in Indonesia, India, and Philippines
- Incidents expected to increase in the second half of the year due to (1) monsoon season, and (2) continued active enforcement of efforts by regional local authorities

ILLEGAL, UNREGULATED, UNREPORTED FISHING (IUUF)

Total number of incidents: 176
(234 in 2020) **24.7%↓**

LOCATIONS OF IUUF OCCURRENCES

- 1 Malaysia: 75 (42.6%)
- 2 Indonesia: 44 (25%)
- 3 Philippines: 27 (15.3%)
- 4 Sri Lanka: 8 (4.5%)
- 5 Republic of Korea: 8 (4.5%)

	Total number of local incidents	Total number of poaching incidents
Malaysia	42	Vietnam: 36
Philippines	26	Indonesia: 10
Indonesia	21	China: 9



OBSERVATIONS

1. Poaching incidents involving Vietnamese fishing vessels remain high; numbers are not expected to decrease
2. Scattered overlapping maritime zones observed to be an important contributing factor to poaching incidents
3. Majority of local IUU fishing incidents involved the use of traditional small boats

CONTRABAND SMUGGLING

Total number of incidents: 220
(141 in 2020) **36%↑**

TYPES OF CONTRABAND



TYPES OF VESSELS



OBSERVATIONS

1. The top 3 areas of incidents are the Malacca Strait, waters off Sri Lanka, and Hong Kong
2. Increased smuggling of drugs, domestic products, and tobacco likely due to COVID-19 socio-economic restrictions
3. Usage of small boats, especially fishing vessels, prevalent in contraband smuggling; perpetrators increasingly creative in adopting new methods e.g., setting packages adrift
4. Increase in incidents to be expected due to higher demand during major festivities in the second half of the year

IRREGULAR HUMAN MIGRATION (IHM)

Total number of incidents: 49
(43 in 2020) **12%↑**



TOP 3 IDENTIFIED IHM ROUTES

1. Malacca Strait and Johor (23 incidents)
2. Bay of Bengal (8 incidents)
3. Eastern Sabah (4 incidents)

TOP 3 NATIONALITIES IN HUMAN SMUGGLING:

1. Indonesian
2. Myanmar
3. Indian

OBSERVATIONS

1. Although IHM incidents have increased in 2021 in comparison to the same period in 2019 and 2020, a significant decrease in the number of migrants involved in IHM incidents was observed in 2021
2. Two distinct groups of migration flows observed: (1) from countries sharing maritime border (mainly for economic reasons), and (2) South Asia to Southeast Asia (notably involving Rohingya departing Bangladesh seeking asylum)

NEW ENVIRONMENTAL SECURITY

Total number of incidents: 19

TYPES OF INCIDENTS

1. Liquid pollution (oil leak/spill): 73.7%
2. Contagion (COVID-19-related): 21%
3. Others (marine life washed up): 5.3%

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Information Fusion Centre

The Information Fusion Centre (IFC) serves as the regional Maritime Security (MARSEC) information-sharing hub covering most of the Indo-Pacific region. With an integrated team of more than 19 International Liaison Officers from navies/coastguards and more than 100 worldwide linkages, the IFC facilitates MARSEC information sharing and collaboration between its partners to cue operational responses, provide maritime situational awareness and enables collaboration beyond its Area of Interest.