



Royal United Services Institute of Nova Scotia

Dispatches

30 August 2019

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. The most recent four editions are posted to: <https://rusi-ns.ca/dispatches/>. Note that links of 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. 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 email address (i.e., **not** your work address), please inform the CIO.

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

Comments to articles can be from members or non-members of RUSI(NS). Feedback is welcome anytime. 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 a weekly *Defence & Security Newsletter*, aimed at opinion leaders and industry. The most recent four editions are posted at: <https://rusi-ns.ca/defence-and-security-newsletter/>. If you are interested in receiving the newsletter, email admin@duncom.ca.

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. RUSI(NS) events may be cancelled at short notice – email RUSI(NS) if there is a question of an event occurring.

Keep an eye out for changes to our events program, especially with speakers, for the next couple months due to the election. Whilst the 'caretaker convention' has not apparently been declared, it is evident from exchanges with federal staff that many are already following the convention's intent. For more info about the convention, see: "Guidelines on the Conduct of Ministers, Ministers of State, Exempt Staff and Public Servants During an Election" (<https://www.canada.ca/en/privy-council/services/publications/guidelines-conduct-ministers-state-exempt-staff-public-servants-election.html>).

18 September, Wednesday - Distinguished Speaker Major Erik Weigelin, 423 Maritime Helicopter Squadron, speaking about the first operational deployment of the CH148 Cyclone helicopter. 1130-1330. Royal Artillery Park Officers' Mess.

6 November, Wednesday - RUSI(NS) 2019 Remembrance Dinner. Evening, Royal Artillery Park Officers' Mess.

Recent Publications:

RUSI(NS) Info Quest "BREXIT and the Canadian Surface Combatant" <https://rusi-ns.ca/brexit-and-the-canadian-surface-combatant/>, 10 August 2019

RUSI(NS) Information Note "A System to Judge Information Reliability" <https://rusi-ns.ca/a-system-to-judge-information-reliability/>, 4 August 2019

RUSI(NS) paper "The Canadian North, our Airspace, its Surveillance, Air Traffic Control and Search and Rescue - Is Canada doing enough?" by Murray Lee and Ed Young, 1 August 2019
<https://rusi-ns.ca/the-canadian-north-our-airspace-its-surveillance-air-traffic-control-and-search-and-rescue-is-canada-doing-enough/>

RUSI(NS) Presentation "Defence, Innovation and Duct Tape: Innovation Agendas in Application" by LCol Barbarie Palmer RCAF (ret'd), Senior Director Business Development (Air and Land), Bluedrop Training and Simulation, 17 July 2019
<https://rusi-ns.ca/wp-content/uploads/2019/07/DefenceInnovationDuctTape.pdf>

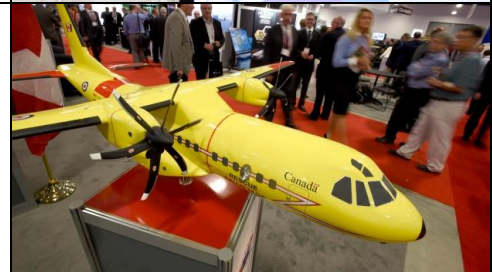
The Military Institute of Windsor Communiqué, Volume XXXVII Number 8 September 2019 is available on request to RUSINovaScotia@gmail.com.

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. Original article title in parentheses.

MARLANT @RCN_MARLANT tweeted and RUSI(NS) retweeted: During @RUSI_NS Distinguished Speakers event, at Royal Artillery Park, #RCNavy's Capt(N) Garnier speaks about his experiences as Commander, Combined Task Force 150, a multinational maritime task force on #OpArtemis, operating in Middle Eastern and East African waters.
https://twitter.com/RCN_MARLANT/status/1164206922586828801



#RCAF commander to select name for new CC295 search&rescue #SAR aircraft by Nov19
<https://vancouverisland.ctvnews.ca/military-narrows-list-of-names-for-new-search-and-rescue-planes-1.4562625> #SAR community commenting on 2 names, finalists following public input. Appropriate process (Military narrows list of names for new search and rescue planes)



With addition of at least 2 CH149 to #RCAF fleet, Cormorants will return to Trenton & replace CH146 Griffons in #search&rescue role

<https://ottawacitizen.com/news/national/defence-watch/rcaf-to-get-two-more-cormorant-helicopters-rest-of-fleet-to-be-upgraded> Better cross-CAN🇨🇦 coverage with helo better suited to #SAR

(RCAF to get more Cormorant helicopters, rest of fleet to be upgraded)

RUSI(NS) retweeted: See para 2.4.3 Location of Bases of "Evaluation of the DND/CAF Contribution to the National Search and Rescue Program"

<https://www.canada.ca/en/department-national-defence/corporate/reports-publications/audit-evaluation/evaluation-dnd-caf-contribution-national-search-and-rescue-program.htm>



"Feds amend shipyard search following complaint about bias toward Quebec's Davie"

<https://www.nationalnewswatch.com/2019/08/26/feds-amend-shipyard-search-following-complaint-about-bias-toward-quebecs-davie/#.XWRvaHdFyUn> "Shipyards will now be required to show they can build vessels that are at least 110m in length & 20m wide, smaller than original requirements of 130m in length by 24m wide"



Impressive #MVAsterix stats: since 1Apr18 motored 150,721NM, completed 197 replenishments of 40 CAN🇨🇦, #NATO & allied warships of 12 nations <https://www.globenewswire.com/news-release/2019/08/26/1906531/0/en/Asterix-returns-to-Halifax-after-record-502-day-deployment.htm> Good return on contracted oiler/support ship. Welcome back to #Halifax (Asterix returns to Halifax after record 502-day deployment)



Fisheries&Oceans CANca & Canadian Coast Guard's new #Arctic Regions <http://dfo-mpo.gc.ca/fisheries-peches/consultation/consult-arct-eng.html> @FishOceansCAN🇨🇦 & @CoastGuardCAN have commenced engagements w Northern Indigenous organizations, prov&territorial gov'ts, industry & others to identify boundaries&priorities of new regions

(Engagement on Fisheries and Oceans Canada and the Canadian Coast Guard's new Arctic Regions)



STRATCOMCOE @STRATCOMCOE 28 Aug tweetd and RUSI(NS) retweetd: "Nato Secretary General Jens Stoltenberg says all 29 member countries would respond to a serious cyber-attack on one of them...'We have designated cyber-space a domain in which Nato will operate and defend itself...' Read on: <https://www.bbc.com/news/technology-49488614> (Nato: Cyber-attack on one nation is attack on all and Nato will defend itself <https://www.prospectmagazine.co.uk/world/nato-will-defend-itself>)



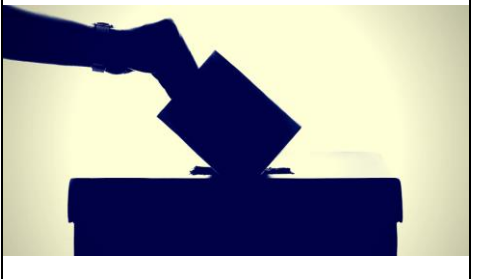
500+ days & 3 oceans after departing #Halifax, #MVAsterix is berthed (not in HMCDockyard) astern future #HMCSHarryDeWolf. #ASTERIX sched for Oct docking period w @ChantierDavie for routine preventative maintenance (might support int'l naval exercise off NovaScotia before then?) Photo by a RUSI(NS) member.



Good practice to leave transition team behind to help next nation responsible for providing aeromedical evacuation in #MLI <https://www.ctvnews.ca/politics/canada-to-send-team-back-to-mali-to-help-romania-minimize-gap-in-evacuations-1.4569032> Another idea may be to embed some staff with next nation's group #OpPRESENCE-#Mali (Canada to send team back to Mali to help Romania minimize gap in evacuations)



Macdonald-Laurier Institute @MLInstitute Aug 27 tweeted and RUSI(NS) retweeted: "Canada's upcoming election will be targeted by foreign malign actors who will use disinformation and other active measures to polarize our national debate in an effort to create deep and perhaps permanent tears in the fabric of our society..." #cdnpoli (Defending against foreign interference in our elections <https://www.macdonaldlaurier.ca/defending-against-foreign-interference-in-our-elections-marcus-kolga-for-inside-policy/>)



Federal Fleet @federalfleet 1:25 AM · Aug 26, 2019 tweeted: RT @federalfleet: Welcome Home Asterix (nice video: <https://twitter.com/chantierdavie/status/1165994325131583488>) Though "home" for ASTERIX is Quebec – the name is painted on her transom (okay, it's her port of registry). She is contracted to serve RCN ships from both coasts, globally.

Posted on Facebook Royal United Services Institute NS with comments:

Declining Ship Numbers, Opportunities Causing Merchant Marine Talent Loss

<https://news.usni.org/2019/08/22/buzby-declining-ship-numbers-opportunities-causing-merchant-marine-talent-loss>



This article leads one to wonder what also is the state of the Canadian Merchant Navy personnel situation. Probably not enough to offset much the state of the US Merchant Marine deficit if there was a call for mass sealift.

Leads one to wonder, too, what are sealift plans for the Canadian Armed Forces if there was a need. The ships and the mariners may just not be there.

In response to queries, several remarks have been made by Canadian mariners:

The issue in Canada is not so much a lack of ships as training. Manning problems for merchant navy personnel in Canada are starting to manifest as shortages of specialists, e.g., seafarers with tanker endorsements and polar code certification. And ship crews are being told they may not have a relief for scheduled time-off periods. We continue to hear that shipowners are laying ships up for short periods for lack of key personnel. Some of these requirements are bureaucratic. I know of one former CCG commanding officer with twelve years of service in 1200-class icebreakers in the Arctic being denied a polar code certificate because it wasn't 'recent,' i.e., in the last five years.

Many companies are now offering signing bonuses to new hires and to the company employee that found them.

We hear whispers that domestic shipping companies are pushing Transport Canada Marine Safety for changes to the shipping act to allow foreign officers and ratings. How would the Canadian Armed Forces like all of its military equipment to be moved by say Russian officers?

There is still sealift capability but using these vessels for military sealift might take them away from other important or critical roles like Arctic sealift, etc.

It's a very complex issue. Education of seafarers is a provincial matter yet they are regulated federally. And different regions of the country have different needs.

And this is just the beginning.

Recall the incident of Canadian military equipment including armoured vehicles being detained on an Ukrainian ship and having to be boarded by the Canadian Navy. We now only have a few ships like the SANDERLING (22,000 tonnes cargo vessel) under the Canadian flag.

Tax issues for both owners and seafarers also has an effect on the lack of interest to register ships in Canada or to sail in the few registered Canadian deep sea vessels.

Ground-Based Laser Weapon Scores 1st UCAV Combat Kill

Army Recognition posted

(https://www.armyrecognition.com/weapons_defence_industry_military_technology_uk/turkey_uses_laser_weapon_technology_to_shoot_down_chinese_uav_wing_loong_ii_in_libya.html), a report entitled "Turkey uses laser weapon technology to shoot down Chinese UAV Wing Loong II in Libya." The UAE-owned, Chinese-made UAV, Wing Loong II, was on an armed reconnaissance combat mission, seeking targets in the Misurata area eligible for engagement by a direct attack with its anti-tank missile.

The story is interesting for several reasons:

- a. the multi-national properties of arms procurement and usage;
- b. it is the first known success of a laser-based weapon to destroy a military-grade unmanned platform in combat; and
- c. the actors involved (Libya, GNA, LNA, UAE, Turkey, China) are not usually characterized as military innovators.

If the reports are credible, this weapon, built by Turkey and employed by Libyan factions, is years ahead of US, Russian and UK deployment of equivalent systems.

iHLS commented (<https://i-hls.com/archives/93986>) that the Turkish system used in this 3 August engagement in Libya was mounted on an off-road armoured car chassis and equipped with a Turkish-made electro-optic guidance system that enables accurate target inspection with selection and holding of a vulnerable point until its unparalleled 50kW laser completely destroys the target. Two Turkish manufacturers, Aselsan and Roketsan, have sold production-standard DEW counter-UAS systems to unspecified customers.

This incident marks a new threat vector to MALE UCAV operations that is anticipated to proliferate rapidly outside the control of the ITAR regime.

Primary Source: <https://www.linkedin.com/pulse/first-combat-kill-rpas-ground-based-laser-weapon-johnston-davis-cmgr/>



Ontario shipyard accuses federal government of unfairly stacking deck in Davie's favour

Ref: <https://www.cbc.ca/news/politics/hamilton-heddle-shipyard-competition-1.5258089>

"...Heddle alleges in its complaint that many of the requirements the government says shipyards must meet to qualify for consideration are not legitimate or reasonable — and will disqualify virtually every yard but Davie."



Is the requirements document something publicly available?

And what is the rationale behind the 1000 tonnes cutoff? That number is certainly in the National Shipbuilding Strategy (NSS) to divide building into two categories. Most boatyards, at least here in Nova Scotia, do not build above 250-350 tonnes anyways; they are limited by the capability of their marine railways. How many yards are there that can build in the 350-1000 tonnes bracket? That was not an issue when so many of the ships to be built under the NSS were much larger than that (7000 tonnes frigates, 25000 tonnes oilers, DFO/CCG patrol and research vessels of 2-3000 tonnes). Public reported only noted three yards, Irving, Seaspan and Davie, that could handle that large. If other yards are coming forward now, is it time to review the NSS? One (if not the) main purpose of the NSS is to ensure a robust (meaning not boom-and-bust) Canadian shipbuilding industry. There are a limited number of government ships (and dollars), so the implication is NSS will only support a limited number of yards (word is, two medium yards steady-state, three yards until we get there). So it is not desirable to distribute the ship contracts too widely. But if there are ships to be built in the, say 350-2000 tonnes range, maybe a third category of shipbuilding should be added to the NSS. It would not hurt either the three large shipyards or the many smaller ones (most boatyards anyways).

Army Explores Robot Decoys & Cannon-Fired Jamming Pods

<https://breakingdefense.com/2019/08/army-explores-robot-decoys-cannon-fired-jamming-pods/>

"Sun Tzu said all warfare is based on deception. Today, that means electronic deception."



RCAF to get more Cormorant helicopters, rest of fleet to be upgraded

<https://ottawacitizen.com/news/national/defence-watch/rcaf-to-get-two-more-cormorant-helicopters-rest-of-fleet-to-be-upgraded>



There is something missing in this news. There are at least five VH-72 helicopters acquired by Canada and now in storage that can be converted to the search and rescue configuration. They were the buy from the US Presidential fleet and may be convertible unless they have been cannibalized to the extent that they cannot be returned to flying status.

RUSI(NS) member remark: I do not believe any of the US choppers have been cannibalized at all. There are significant, but not insurmountable airworthiness issues robbing from them for installation on the CH149.

Russia-proofing your election against foreign interference: New MLI Study

<https://www.macdonaldlaurier.ca/russia-proofing-election-foreign-interference-new-mli-study/>

“Ultimately, a well-informed and educated public, media, and government will provide the most resilient form of defence against foreign malign influence and disinformation campaigns.”

RUSSIA-PROOFING YOUR ELECTION

Global lessons for protecting Canadian democracy against foreign interference

Marcus Kolga, Jakub Janda, Nathalie Vogel



Arrowhead 140 – A guide to the Royal Navy’s potential future frigate

<https://ukdefencejournal.org.uk/arrowhead-140-a-guide-to-the-royal-navys-potential-future-frigate/>



The Type 31e for the Royal Navy is meant to be at the low end of the range of frigate capabilities (greater, by definition, than a corvette). The Babcock proposal, with 100 ship's company and 28 knots speed, has aspects of a low end frigate, but at 5,700 tonnes and 138.7 metres in length, this is not a small ship! Size is not an indicator of a warship's type or capability.

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.



This Week



RUSI
www.rusi.org

<https://mailchi.mp/rusi.org/thisweek-23august-166601?e=a539211a30>

China would benefit most from billion-dollar, 700-km highway through Canadian Arctic, critics say

<https://nationalpost.com/news/china-would-benefit-most-from-billion-dollar-700-km-highway-through-canadian-arctic-critics-say>



Is Russia's Domsday Missile Fake News?

https://foreignpolicy.com/2019/08/22/is-russias-domsday-missile-fake-news-putin-hypersonic-nuclear-cruise-moscow-kremlin/?utm_source=PostUp&utm_medium=email&utm_campaign=14616&utm_term=Editor#39;s%20Picks%20OC



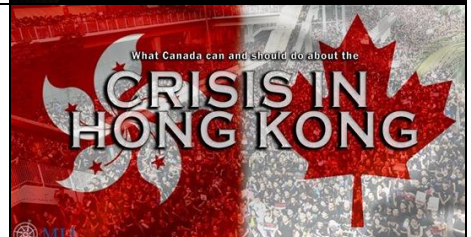
Time for a new direction in Canada's China Strategy: New MLI Report

https://www.macdonaldlaurier.ca/time-for-a-new-direction-in-canadas-china-strategy-new-mli-report/?mc_cid=cb4238c2f1&mc_eid=a8426c0175



Crisis in Hong Kong

https://www.youtube.com/watch?v=Z324lm2gbPE&mc_cid=cb4238c2f1&mc_eid=a8426c0175



Canada's servicemen and women no longer well-served by Ottawa

<https://www.thechronicleherald.ca/opinion/local-perspectives/tim-dunne-canadas-servicemen-and-women-no-longer-well-served-by-ottawa-343182/>



Another Russian S-400 battery headed to Turkey beginning Tuesday: Anadolu

https://www.reuters.com/article/us-turkey-security-usa-defense/another-russian-s-400-battery-headed-to-turkey-beginning-tuesday-anadolu-idUSKCN1VG0RB?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.26.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Photos reveal progress on China's largest amphibious assault ship

https://www.defensenews.com/naval/2019/08/23/photos-reveal-progress-on-chinas-largest-amphibious-assault-ship/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.26.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Putin vows to respond after US missile test

https://www.navytimes.com/news/your-navy/2019/08/23/putin-vows-to-respond-after-us-missile-test/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.26.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Strategic military alliances are more critical today

https://defence.frontline.online/blogs/5398-JOE-VARNER/12089-Strategic-Alliances?utm_source=FrontLine+e-Newsletter&utm_campaign=559a6c7825-EMAIL_CAMPAIGN_2019_08_26_04_31&utm_medium=email&utm_term=0_c695d3fd22-559a6c7825-89113457



Feds amend shipyard search following complaint about bias toward Quebec's Davie

<https://www.msn.com/en-ca/news/canada/feds-amend-shipyard-search-following-complaint-about-bias-toward-quebecs-davie/ar-AAAGmnW0?ocid=se>



South Korea's exit from intelligence-sharing pact with Japan will complicate defense, US warns

https://www.stripes.com/news/middle-east/south-korea-s-exit-from-intelligence-sharing-pact-with-japan-will-complicate-defense-us-warns-1.596010?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.27.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Russia reveals radiation details

https://www.navytimes.com/news/your-navy/2019/08/26/russia-reveals-radiation-details/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.27.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Russia, Turkey discuss supply of Russian warplanes: RIA

https://www.reuters.com/article/us-russia-turkey/russia-turkey-discuss-supply-of-russian-warplanes-ria-idUSKCN1VI0T7?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.28.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



China Is Sending Keyboard Warriors Over The Firewall

https://foreignpolicy.com/2019/08/26/china-is-sending-keyboard-warriors-over-the-firewall/?utm_source=PostUp&utm_medium=email&utm_campaign=14698&utm_term=Flashpoints%20OC



Brazil's Gripen E makes first flight, F-35 parts deal underway and other defence industry news





<https://ottawacitizen.com/news/national/defence-watch/brazils-gripen-e-makes-first-flight-f-35-parts-deal-underway-and-other-defence-industry-news>



Canada to send team back to Mali to help Romania minimize gap in evacuations

<https://www.msn.com/en-ca/news/canada/canada-to-send-team-back-to-mali-to-help-romania-minimize-gap-in-evacuations/ar-AAGszEJ?ocid=se>



<p>Swiss seek package deal of ground-based weapons, combat aircraft</p> <p>https://www.defensenews.com/global/europe/2019/08/28/swiss-seek-package-deal-of-ground-based-weapons-combat-aircraft/</p>	
<p>Esper sets demand that might let Turkey rejoin F-35 program</p> <p>https://www.defensenews.com/pentagon/2019/08/28/esper-turkey-could-rejoin-f-35-program-if-s-400-is-out-of-the-country/</p>	
<p>The Thickening Web of Asian Security Cooperation</p> <p>https://www.rand.org/pubs/research_reports/RR3125.html?utm_source=WhatCountsEmail&utm_medium=RAND%20Policy%20Currents+AEM:%20%20Email%20Address%20NOT%20LIKE%20DOTMIL&utm_campaign=AEM:631600804</p>	
<p>An Attack Against Them All?</p> <p>https://www.rand.org/pubs/research_reports/RR2964.html?utm_source=WhatCountsEmail&utm_medium=RAND%20Policy%20Currents+AEM:%20%20Email%20Address%20NOT%20LIKE%20DOTMIL&utm_campaign=AEM:631600804</p>	

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

#civil-military relations

In Military-Civil Fusion, China is Learning Lessons from the United States and Starting to Innovate

<https://thestrategybridge.org/the-bridge/2019/8/27/in-military-civil-fusion-china-is-learning-lessons-from-the-united-states-and-starting-to-innovate>

Note the civil-military relations Canada is used to.

#Coast Guard

New Atlantic Regional Headquarters enhances marine safety and ocean protection for Newfoundland and Labrador

<https://www.canada.ca/en/canadian-coast-guard/news/2019/08/new-atlantic-regional-headquarters-enhances-marine-safety-and-ocean-protection-for-newfoundland-and-labrador.html>

#cyber operations #business continuity

The US Must Prepare for a Cyber ‘Day After’

<https://www.defenseone.com/ideas/2019/08/cyber-continuity-planning/159507/>

#drones

Drone war takes flight, raising stakes in Iran, US tensions

<https://www.militarytimes.com/news/pentagon-congress/2019/08/25/drone-war-takes-flight-raising-stakes-in-iran-us-tensions/>

Marine Corps puts weaponized unmanned vessel through its paces

<https://www.marinelog.com/news/marine-corps-puts-weaponized-unmanned-vessel-through-its-paces/>

"The Expeditionary Warfare USV – capable of performing force protection and long-range USV missions during distributed maritime operations, littoral operations in a contested environment, and expeditionary advanced base operations..."

#information operations

The Alphabet Book of Pro-Kremlin Disinformation (Part IV: S – Z)

<https://euvsdisinfo.eu/the-alphabet-book-of-pro-kremlin-disinformation-iv/>

China Is Sending Keyboard Warriors Over The Firewall

From CDAI H Coombs: Available at <https://foreignpolicy.com/2019/08/26/china-is-sending-keyboard-warriors-over-the-firewall/> is Foreign Policy article "China Is Sending Keyboard Warriors Over The Firewall." This piece discusses the use of online Chinese forums in rallying fans to defend national pride abroad.

#professional military education

Thinking for Seapower: Educating and Organizing for Intellectual Advantage

<http://cimsec.org/thinking-for-seapower-educating-and-organizing-for-intellectual-advantage/41135>

#strategy

ADM Zumwalt's plan of action for his term as Chief of Naval Operations, 1970 to 1974

Chief of Naval Operations Zumwalt's Project 60

<http://cimsec.org/chief-of-naval-operations-zumwalts-project-60-part-1/41211>

and

<http://cimsec.org/chief-of-naval-operations-zumwalts-project-60-part-2/41362>

Strategic military alliances are more critical today

<https://defence.frontline.online/blogs/5398-JOE-VARNER/12089-Strategic-Alliances>

#vessel monitoring

Developing a new Vessel Monitoring System standard

<http://dfo-mpo.gc.ca/fisheries-peches/consultation/vessel-monitoring-surveillance-navire/index-eng.html>

Seems to be fishing vessel focused.

#warfare

Mercenaries and the Wagner Group: What's Old Is New Again

<https://www.geopoliticalmonitor.com/mercenaries-and-the-wagner-group-whats-old-is-new-again/>

#wargaming

Roll for Initiative: NATO's Navies Need a Wargaming Series

<https://warontherocks.com/2019/08/roll-for-initiative-natos-navies-need-a-wargaming-series/>

Other:

Journal of Military and Strategic Studies Vol 19 No 4

<https://jmss.org/issue/view/5153>

articles:

Close Encounters of the Military Kind: A Civilian's Perspective

Threat Evaluation In Air Defense Systems Using Analytic Network Process

An Economic Analysis Of The Fall Of France In June 1940 Based On The Theory Of New Institutional Economics

France's "Indo-Pacific" Strategy: Regional Projection

Deterrence, Resilience and Hybrid Wars: The Case of Canada and NATO

Leveraging capability: A study of the interoperability of fourth- and fifth-generation NATO fighter aircraft

Tribalism (Army University Press <https://www.armyupress.army.mil/Special-Topics/Hot-Topics/Tribalism/>)

"This compilation of works consists mainly of articles from Military Review, publications authored by the Combat Studies Institute, monographs from students at the Command and General Staff College, and selected works from other sources for which we have permission to reproduce.

Research & Development

NationalDefence @NationalDefence 27 Aug tweeted: The MINDS Collaborative Networks have been selected! Three multi-disciplinary teams of experts from across Canada will help DND/CAF address key defence policy challenges.

<https://www.canada.ca/en/department-national-defence/programs/minds/funding-results.html>

MOBILIZING INSIGHTS IN DEFENCE AND SECURITY

MINDS

**COLLABORATIVE NETWORKS
Grants Funded**

Three multi-disciplinary teams of experts from across Canada have been selected to receive \$250,000 a year, for the next three years, to help DND/CAF address key defence policy challenges.

For more info, visit canada.ca/defence-minds

Canada FORCES.GC.CA

The graphic features a background image of two people looking at a screen with a network diagram overlay. The Canadian flag is visible in the bottom left corner.

NationalDefence retweeted: The MINDS Collaborative Networks have been selected! Three multi-disciplinary teams of experts from across Canada will help DND/CAF address key defence policy challenges.

1. The North American and Arctic Defence and Security Network (NAADSN) under the network lead of Dr. P. Whitney Lackenbauer will focus on Defence Role in the Arctic, NORAD Modernization, and Evolving Role of Major Powers
 2. The Defence and Security Foresight (DSF) Group under the lead of Dr. B. Momani, will focus on Anticipating Future Challenges, Evolving Role of Major Powers, and the Future of Capacity Building
 3. The Collaborative Network on Public & Defence Policy Challenges and Innovations on AI, Autonomous Systems, & Cybersecurity under the lead of Dr. K. Khorasani, will explore Cyber and Space, Role of AI, and Emerging Technology and Military Application
- (Funding Results) (<https://twitter.com/NationalDefence/status/1166404454616305664>)

Cunard RMS *Samaria*

<https://richcblog.blogspot.com/2005/03/cunard-rms-samaria.html>

Note the bit in the article about *Samaria's* bell at the mess at RA Park. It has been the custom at RUSI(NS) Remembrance Dinners to ring the bell to end the minute of silence recognizing fallen comrades.

Keep **6 November** available to attend the dinner.

(RMS = Royal Mail Ship)

