



Royal United Services Institute of Nova Scotia Dispatches 16 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.

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.

New: 16 August, Friday – Distinguished Speaker Major-General R.R.E. MacKenzie, Chief of Reserves and Employer Support, about his vision for the Reserves. . 1130-1330. Royal Artillery Park Officers' Mess. Context:

National Defence to invest in Reserve infrastructure across Canada

<https://www.canada.ca/en/department-national-defence/news/2019/08/national-defence-to-invest-in-reserve-infrastructure-across-canada.html>

Reserves benefit from new initiatives and investments

<https://www.canada.ca/en/department-national-defence/news/2019/08/reserves-benefit-from-new-initiatives-and-investments.html>

21 August, Wednesday - Distinguished Speaker Captain(N) Darren Garnier, talking about his recent tour in command of Combined Task Force 150, the international maritime security task force operating off of north east Africa and south west Asia. 1130-1330. Royal Artillery Park Officers' Mess.

18 September, Wednesday - Distinguished Speaker TBA, possibly RCAF and Cyclone related. 1130-1330. Royal Artillery Park Officers' Mess.

6 November, Wednesday – save the date for the RUSI(NS) 2019 Remembrance Dinner. Evening, Royal Artillery Park Officers' Mess.

Recent Publications:

New: 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 United Services Institute of Nanaimo and North Island (USINNI) Newsletter Vol 27 No 08 August 2019 is available on request to RUSINovaScotia@gmail.com.

The Military Institute of Windsor Communiqué, Volume XXXVII Number 7 July - August 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.

Patrol of NAmerican Air Defence Identification Zone #ADIZ & intercept of intruders remains valid mission for #RCAF air interceptors both current CF188 Hornets & #FutureFighter <https://theaviationist.com/2019/08/08/u-s-f-22s-canadian-cf-18s-intercept-russian-tu-95s-inside-alaska-adiz-raf-typhoons-intercept-tu-142s-near-uk-and-estonia/> CAN🇨🇦 needs ensure integrity of its air/surface/subsurface approaches #airpower (U.S. F-22s, Canadian CF-18s Intercept Russian Tu-95s Inside Alaska ADIZ. RAF Typhoons Intercept Tu-142s near UK and Estonia)



David Pugliese @davidpugliese 9 Aug tweeted: My latest article....Canadian Forces to conduct inspections of older Hercules planes after U.S. grounds some aircraft <https://ottawacitizen.com/news/national/defence-watch/canadian-forces-to-conduct-inspections-of-older-hercules-planes-after-u-s-grounds-some-aircraft/>
RUSI(NS) retweeted: #RCAF CC130H Hercules are multi-role including search&rescue #SAR aircraft <http://www.rcaf-arc.forces.gc.ca/en/aircraft-current/cc-130.page> Will grounding for inspection affect SAR response availability? One can be assured #RCAF_ARC has contingency plans for this



David (Duke) Snider @icenav57 Aug 9 tweeted and RUSI(NS) retweeted: Noted a few factual errors and Cant say I agree with the “need” for a treaty - Canada needs to cut a deal with the U.S. to control the Northwest Passage <http://nationalpost.com/wcm/dad06934-76dc-4a48-804f-475e460f93f1> via @nationalpost

(Canada needs to cut a deal with the U.S. to control the Northwest Passage)

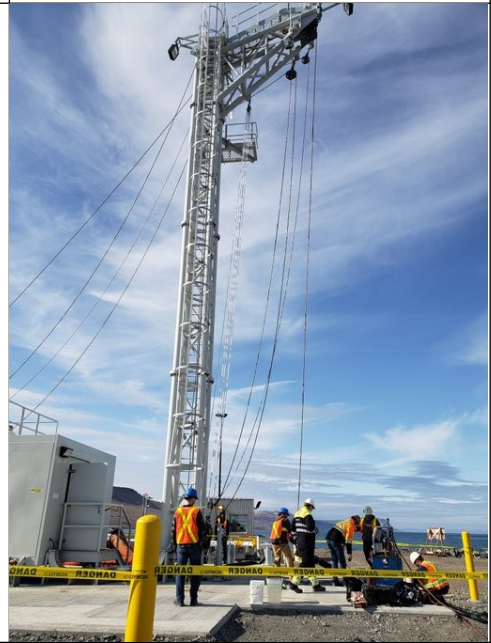


RUSI(NS) Info Quest "BREXIT and the Canadian Surface Combatant" <https://rusi-ns.ca/brexit-and-the-canadian-surface-combatant/> "What impact will Brexit have on Canada’s plan to build frigates based on the United Kingdom’s BAE System design Type 26 frigate for the Royal Canadian Navy?" #RCNavy #CSC @RCN_MRC
Further to the Info Quest: Brexit talks with the U.K.: There are none
<https://www.macleans.ca/politics/ottawa/canadas-brexit-talks-with-the-u-k-there-are-none/>



Dave Mazur @WardenNAtlantic 13 Aug tweeted: The first testing of the #Nanisivik Naval Facility SSF (Spanwire Supported Fuelling) system was successful. Things are progressing well. As #halifaxbasecmd happy to see the progress first hand as next summer this will become an important part of #cfbhalifax #marlant #rcn_mrc

RUSI(NS) retweeted: Great to read of #RCNavy infrastructure development in #Arctic in support CAN🇨🇦 sovereignty & deployment of patrol vessels. #Nanisivik to be part of @CanadianForces Base #Halifax - goin' to make weekly captain's rounds challenging!



Seaspan Shipyards @MoreThanShips 13 Aug tweeted: Seaspan is proud to award a contract to Hepburn Engineering to provide Replenishment-At-Sea (RAS) Systems for the new Joint Support Ships for the @RoyalCanNavy. The RAS stations will allow them to transfer fuel, fresh water and solid goods to other ships.

(Hepburn Engineering secures contract to provide replenishment systems for Canada's Joint Support Ships <https://nss.seaspan.com/featured-news/hepburn-engineering-secures-contract-to-provide-replenishment-systems-for-canadas-joint-support-ships/>)

RUSI(NS) retweeted: Replenishment-at-sea gear, cranes, elevators, operated by trained #RCNavy teams - these are part of what make replenishment oilers & which allow sustainment of naval task groups for long time & long distances in support of CAN national missions



STRATCOMCOE @STRATCOMCOE 15 Aug tweeted and RUSI(NS) retweeted: "Considering its scope of overall entanglement with geospace, aquaspace, and space, the facelessness of enemy soldiers in the cyber domain, and the leveling of attack capabilities...it seems a new model of cyber warfare governance is required."

(Tracking Cyber Warfare Patterns

<https://www.forbes.com/sites/cognitiveworld/2019/08/15/tracking-cyber-warfare-patterns/>)



Canadian Armed Forces Operations @CFOperations 2:53 PM · Aug 7, 2019 tweeted: Recently, LCol Mike Babin transferred responsibility for the #OpPRESENCE-Mali Aviation Battalion to Major Dominique Bertrand. Under his and Col Morehen's leadership, our sole focus from now until August 31 is aeromedical evacuations to support @UNPeacekeeping in the region.

(<https://twitter.com/CFOperations/status/1159160750088302592>)

Interesting term, "aviation battalion." Normally one used by the US, not expected for a RCAF element. In response to a query about this, Ottawa advised that the RCAF occasionally has used 'aviation battalion' since the 80s. Normally it used to describe a composite unit where there are elements from different squadrons.

Posted on Facebook Royal United Services Institute NS with comments:

Report to Congress on Changes in the Arctic





<https://news.usni.org/2019/08/07/report-to-congress-on-changes-in-the-arctic>



There are numerous Canadian reports but I'm not aware of any single product which equals the comprehensive scope of this Congressional Research Service (CRS) review. Also, note that this report

is version #146, an "update" to a stream of previous releases to a report originating in 2010 (not all of which have been "published"). The trend of increasing content % change of these updates (see: <https://www.everycrsreport.com/reports/R41153.html>) may suggest CRS is responding to increased interest and priority of Arctic issues within the US Congress (and other US government departments and agencies) or perhaps that "Changes in the Arctic" are truly accelerating.

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	
<p>https://mailchi.mp/rusi.org/thisweek-26july-166541?e=a539211a30</p> <p>HMCS Regina seizes 9,000 kilograms of drugs while on recent deployment</p> <p>https://leaderpost.com/news/local-news/hmcs-regina-seizes-9000-kilograms-of-drugs-while-on-recent-deployment</p>	
<p>US and Canadian military aircraft intercept 2 Russian bombers north of Alaska coast</p> <p>https://www.msn.com/en-ca/news/canada/us-and-canadian-military-aircraft-intercept-2-russian-bombers-north-of-alaska-coast/ar-AAFz4UF?ocid=se#image=AAFz4UF_1 1</p>	
<p>Canadian, U.S. military leaders agree on framework to retool Norad</p> <p>https://www.msn.com/en-ca/news/canada/canadian-us-military-leaders-agree-on-framework-to-retool-norad/ar-AAFxo3I?ocid=se</p>	

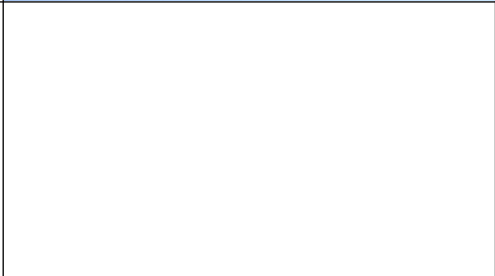
Russian Missile Test Site Explosion Kills 2, Injures 8. https://news.usni.org/2019/08/08/russian-missile-test-site-explosion-kills-2-injures-8?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.09.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



F-35 talks to US Army's missile command system, says Lockheed
<https://www.defensenews.com/land/2019/08/06/f-35-talks-to-army-missile-command-system/>



Got an idea to clean up junk in space? Defence department wants to hear it
<https://www.cbc.ca/news/canada/ottawa/dnd-rfp-cleaning-up-space-junk-1.5236544>



Cyberattack: What Goes Around, Comes Around
https://www.cgai.ca/cyberattack_what_goes_around_comes_around?utm_campaign=09_08_19roundup&utm_medium=email&utm_source=cdfai



Iran's Spies Are at War With Each Other
https://foreignpolicy.com/2019/08/09/irans-spies-are-at-war-with-each-other/?utm_source=PostUp&utm_medium=email&utm_campaign=14419&utm_term=Editor#39;s%20Picks%20OC



Canadian Forces to conduct inspections of older Hercules planes after U.S. grounds some aircraft

<https://ottawacitizen.com/news/national/defence-watch/canadian-forces-to-conduct-inspections-of-older-hercules-planes-after-u-s-grounds-some-aircraft>



India's Sudden Kashmir Move Could Backfire Badly

https://foreignpolicy.com/2019/08/05/indias-sudden-kashmir-move-could-backfire-badly/?utm_source=PostUp&utm_medium=email&utm_campaign=14420&utm_term=Editor#39;s%20Picks%20OC



How the CIA Aims to Keep a Footprint in Afghanistan

https://foreignpolicy.com/2019/08/08/how-the-cia-aims-to-keep-a-footprint-in-afghanistan-taliban-talks/?utm_source=PostUp&utm_medium=email&utm_campaign=14420&utm_term=Editor#39;s%20Picks%20OC



BREXIT and the Canadian Surface Combatant

<https://rusi-ns.ca/brexit-and-the-canadian-surface-combatant/>



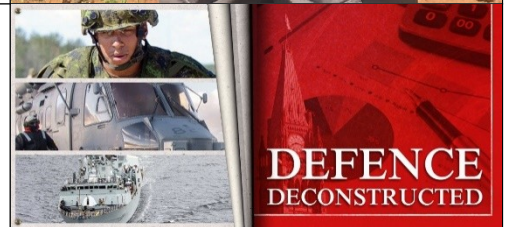
Canada to have 20 police officers in Mali as part of UN mission by year's end

<https://www.cbc.ca/news/somalia-1.5241948>



Elections and Defence Policy

https://www.cgai.ca/elections_and_defence_policy?utm_campaign=11_08_19_pod&utm_medium=email&utm_source=cdfai



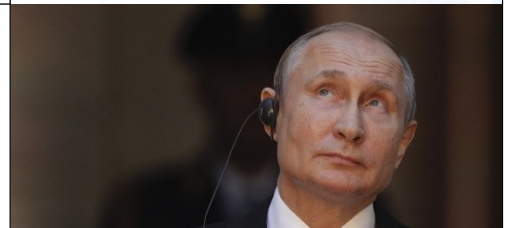
U.K. aerobatic team roars into Nova Scotia

<https://www.thechronicleherald.ca/news/halifax/uk-aerobatic-team-roars-into-nova-scotia-339814/>



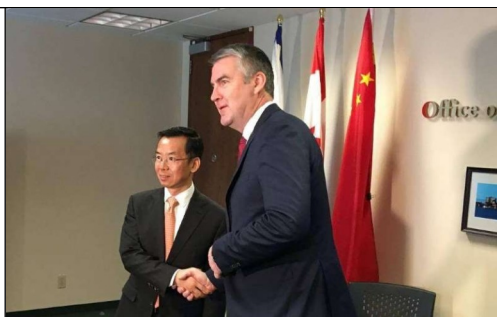
Here's What Foreign Interference Will Look Like in 2020

https://www.defenseone.com/ideas/2019/08/heres-what-foreign-interference-will-look-2020/159062/?oref=defense_one_breaking_nl



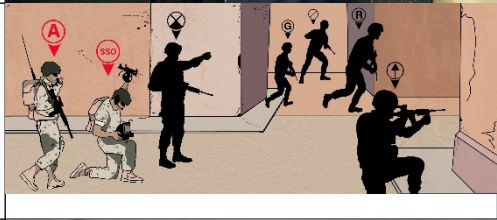
Nova Scotia to build ‘100% China-friendly’ website, navigate censorship in bid to grow commerce

<https://www.msn.com/en-ca/money/topstories/nova-scotia-to-build-100percent-china-friendly-website-navigate-censorship-in-bid-to-grow-commerce/ar-AAFCKwG?ocid=se>



15-Marine rifle squad: An exclusive look inside the future infantry

https://www.marinecorpstimes.com/news/your-marine-corps/2019/08/09/15-marine-rifle-squad-an-exclusive-look-inside-the-future-infantry/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.12.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Russia’s hybrid warfare toolkit has more to offer than propaganda

https://www.defensenews.com/opinion/commentary/2019/08/09/russias-hybrid-warfare-toolkit-has-more-to-offer-than-propaganda/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.12.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Finland’s Air Force chief tackles recruiting challenges and its quest for a future fighter

https://www.defensenews.com/2019/08/09/finlands-air-force-chief-tackles-recruiting-challenges-and-its-quest-for-a-future-fighter/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.12.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



A Mysterious Explosion Took Place in Russia. What Really Happened?

https://foreignpolicy.com/2019/08/12/russia-mysterious-explosion-arctic-putin-chernobyl/?utm_source=PostUp&utm_medium=email&utm_campaign=14551&utm_term=Editor#39;s%20Picks%20OC



Up to 1,000 soldiers to take part in military exercise in Petawawa and Meaford

<https://ottawacitizen.com/news/national/defence-watch/up-to-1000-soldiers-to-take-part-in-military-exercise-in-petawawa-and-meaford>



China's Army May Miss Some of Its Modernization Goals

https://www.defenseone.com/ideas/2019/08/chinas-army-may-miss-some-of-its-modernization-goals/159127/?oref=defense_one_breaking_nl



Early Bird Brief 13 August 2019

<https://link.defensenews.com/view/575882cf498edb7fd66e338aaknlw.6gi/f6ae1d2e>



Chinese Propaganda Goes Tech-Savvy to Reach a New Generation

https://www.defenseone.com/ideas/2019/08/chinese-propaganda-goes-tech-savvy-reach-new-generation/159129/?oref=defenseone_today_nl



This aircraft carrier skipper fled Iran as a child. Now he's preparing to deploy amid heightened tensions.






https://pilotonline.com/news/military/local/article_b54646ec-bdd2-11e9-bcfd-1764174ab98f.html?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.14.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



A-10 re-winging completed, will keep Warthog in the air until late 2030s

https://www.airforcetimes.com/news/your-air-force/2019/08/13/a-10-re-winging-completed-will-keep-warthog-in-the-air-until-late-2030s/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.14.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



<p>Russian fighter jet wards off NATO F-18 nearing defense minister's plane</p> <p>https://www.airforcetimes.com/news/your-air-force/2019/08/13/russian-fighter-jet-wards-off-nato-f-18-nearing-defense-ministers-plane/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.14.19&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	
<p>An explosion. A radiation spike. Evacuations planned and canceled. What's happening in Russia?</p> <p>https://www.defensenews.com/global/europe/2019/08/13/an-explosion-a-spike-in-radiation-evacuation-preparations-what-exactly-happened-in-russia/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.14.19&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	
<p>Manila asks China to explain warships in PI waters</p> <p>https://www.navytimes.com/news/your-navy/2019/08/13/manila-asks-china-to-explain-warships-in-pi-waters/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.14.19&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	
<p>Nuclear-Powered Cruise Missiles Are a Terrible Idea. Russia's Test Explosion Shows Why</p> <p>https://www.defenseone.com/technology/2019/08/nuclear-powered-cruise-missiles-are-terrible-idea-russias-test-explosion-shows-why/159189/?oref=defense_one_breaking_nl</p>	
<p>South Korea moves to kick its missile defense shield up a notch</p> <p>https://www.defensenews.com/global/asia-pacific/2019/08/14/south-korea-moves-to-kick-its-missile-defense-shield-up-a-notch/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.15.19&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	

Taiwan sharply boosts defense budget amid China tension

https://www.reuters.com/article/us-taiwan-china-defence/taiwan-sharply-boosts-defense-budget-amid-china-tension-idUSKCN1V50TZ?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.15.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



In 'clear warning', Chinese paramilitary forces exercise near Hong Kong

https://www.reuters.com/article/us-hongkong-protests-pap/in-clear-warning-chinese-paramilitary-forces-exercise-near-hong-kong-idUSKCN1V50LV?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2008.15.19&utm_term=Editorial%20-%20Early%20Bird%20Brief

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

#additive manufacturing

Review of Structural Additive Manufacturing for Defence Applications

http://cradpdf.drdc-rddc.gc.ca/PDFS/unc336/p810001_A1b.pdf

For those who attended the RUSI(NS) tour of FMF Cape Scott’s laser additive manufacturing facility a few years ago.

#alliances

You Can’t Surge Trust: Lessons on Working with Allies and Partners

<https://mwi.usma.edu/cant-surge-trust-lessons-working-allies-partners/>

#Arctic

The highlights from the 2018 Arctic Maritime Symposium

http://cradpdf.drdc-rddc.gc.ca/PDFS/unc334/p809060_A1b.pdf

#defence procurement

Federal Marine Procurement Outlook - Department of National Defence

https://buyandsell.gc.ca/cds/public/2018/11/26/2a667025d61de98047979733f866bb1a/5_federal_marine_procurement_outlook_-_dnd_2018.pdf

Dated 20 November 2018. Other presentations from the session at: <https://buyandsell.gc.ca/procurement-data/tender-notice/PW-18-00852460>

#grey-zone #gray zone

How can Coordinating Public, Private and People Help Reduce the Impact of a Grey-Zone Incident?

<https://rusi.org/commentary/how-can-coordinating-public-private-and-people-help-reduce-impact-grey-zone-incident>

'Grey-zone incident' – an event which significantly affects national security yet falls short of an all-out war.

Joint Forces Command to Become Strategic Command

<https://rusi.org/commentary/joint-forces-command-become-strategic-command>

#information operations

Is global cooperation on social media governance working?

<https://www.opencanada.org/features/global-cooperation-social-media-governance-working/>

Exploring the Utility of Memes for U.S. Government Influence Campaigns

https://www.cna.org/cna_files/pdf/DRM-2018-U-017433-Final.pdf

How to Fight Disinformation While Preserving Free Speech

<https://www.atlanticcouncil.org/blogs/new-atlanticist/how-to-fight-disinformation-while-preserving-free-speech>

#military justice

Court-martial minefield: case against Canada's chief military judge exposes fatal flaws

<https://globalmjreform.blogspot.com/2019/08/>

#planning

Black Swans - Preparing for Pandemic & Biological Threats

<https://domprep.com/healthcare/black-swans-preparing-for-pandemic-biological-threats/>

"Black swan" has become a well-known concept in the emergency management community. It could apply to defence and security.

#public affairs #NATO

More 'likes' for defence and security issues: engaging young audiences

<https://www.nato.int/docu/review/2019/Also-in-2019/more-likes-for-defence-and-security-issues-engaging-young-audiences/EN/index.htm>

#reading

War Books: War and the Art of Management

<https://mwi.usma.edu/war-books-war-art-management/>

#Royal Canadian Navy

Royal Canadian Navy Strategic Plan 2017-2022

http://navy-marine.forces.gc.ca/assets/NAVY_Internet/docs/en/analysis/rcn_strategicplan_2017-2022_en-s.pdf

This showed up again in a recent tweet. Something to re-consider and compare to progress as we head into an election?

#Russia

Russia's Nuclear Weapons: Doctrine, Forces, and Modernization

<https://fas.org/sgp/crs/nuke/R45861.pdf>

#space

Operation OLYMPIC DEFENDER

<https://www.raf.mod.uk/news/articles/defence-secretary-outlines-future-space-programme/>

Would Canada join?

#terrorism

Towards a Framework for Post-Terrorist Incident Communications Strategies

<https://rusi.org/publication/other-publications/towards-framework-post-terrorist-incident-communications-strategies>

#urban conflict

Intuition, the City, and War

<https://mwi.usma.edu/intuition-city-war/>

#warfare #electromagnetic attack

Air Force Researchers Call for National Electromagnetic Attack Preparation

<http://www.airforcemag.com/Features/Pages/2019/August%202019/Air-Force-Researchers-Call-for-National-Electromagnetic-Attack-Preparation.aspx>

and

Electromagnetic Defense Task Force (EDTF) 2.0 2019 Report

https://www.airuniversity.af.edu/Portals/10/AUPress/Papers/LP_0004_ELECTROMAGNETIC_DEFENSE_TASK_FORCE_2_2019.PDF

Other:

The Royal Canadian Air Force Journal Summer 2018 Volume 7 Number 3

http://publications.gc.ca/collections/collection_2018/mdn-dnd/D12-16-7-3-eng.pdf

articles:

Is it Fair to Say that the Champions of Independent Air Power Ignored Millennia of Warfighting Thought and Experience?

Among “The Few”: Canadians in Bomber Command

CAF C4ISR: An Integrated Approach to the Tactical Data Link

Radarsat Constellation Mission for UN Peace Operations

#drones

(US) Navy Issues Draft Request for Proposal for Large Unmanned Surface Vehicle

<https://news.usni.org/2019/08/14/navy-issues-draft-request-for-proposal-for-large-unmanned-surface-vehicle>

Quite a program, with a variety of platforms.

