



## Royal United Services Institute of Nova Scotia Dispatches 21 February 2020

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

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

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

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

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

RUSI(NS) also publishes a weekly *Defence & Security Newsletter*, aimed at opinion leaders and industry. If you are interested in receiving the newsletter, or want past editions, email [admin@duncom.ca](mailto:admin@duncom.ca).

**Membership Renewal.** With early 2020 it is time for membership renewal. A notification email was sent to RUSI(NS) members and prospects. Whether you are paying dues or your dues are waived, please fill out the renewal form. Your information is important for the accuracy of our data base and therefore our operations. Please return your renewal form promptly. If you do not have the form, email [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

**Survey.** The beginning of 2020 is also time for the annual RUSI(NS) survey. Survey Monkey is being used to manage the survey. You received a survey email in early January asking you to fill in the survey. The survey is short. Your feedback is important and wanted – please take the time to complete the survey. For those who receive RUSI(NS) emails at an @forces address and therefore would have issues with a Survey Monkey link, a separate email was sent to you. If you do not have the survey (as Survey Monkey email or separate form), email [RUSINovaScotia@gmail.com](mailto:RUSINovaScotia@gmail.com).

### Events:

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

**New: 3 March**, Tuesday - Distinguished Speaker Colonel RT Strickland, Commandant Canadian Army Command and Staff College Kingston, on counter-insurgency. Evening (hours TBA, likely 1800).

Location TBD, likely Royal Artillery Park Officers' Mess or Cambridge Military Library. This is a short-notice event to take advantage of the colonel's availability. More information will be promulgated when determined.

**New: 4 March**, Wednesday - RUSI(NS) **Annual General Meeting**. Noon start. Royal Artillery Park Officers' Mess. This event was re-scheduled from 19 February because of snow.

**18 March**, Wednesday - Distinguished Speaker Dr Jonathan Fowler, Saint Mary's University, titled "The Historical Archaeology of Halifax's Earliest Defences." 1100-1300 (**note** difference from our usual timings). Royal Artillery Park Officers' Mess.

**5 April**, Wednesday - (To be confirmed) Distinguished Speaker, senior officer from RCN. 1130-1330. Royal Artillery Park Officers' Mess.

**28 April**, Tuesday - Evening @ Government House presentation by Dr Marc Milner to mark the 75th Anniversary of the Battle of the Atlantic. Dr Milner will present on the longest continuous naval and air campaign during the Second World War in which the RCN and RCAF played a pivotal role. See: <https://lt.gov.ns.ca/news-events/evenings-government-house>.

**28 April**, Tuesday - presentation by RUSI(NS) member Tom Tulloch, "The Royal Naval Burying Ground." 7 pm. Maritime Museum of the Atlantic. See: <https://maritimemuseum.novascotia.ca/event/royal-naval-burying-ground-tom-tulloch>.

**20 May**, Wednesday - (To be confirmed) Distinguished Speaker Chief of Halifax Regional Police Dan Kinsella, about policing in HRM. 1130-1330. Royal Artillery Park Officers' Mess.

**26 May**, Tuesday - presentation by RUSI(NS) member Tom Tulloch, "The Halifax Graving Doc." 7 pm. Maritime Museum of the Atlantic. See: <https://maritimemuseum.novascotia.ca/event/halifax-graving-dock-history-tom-tulloch>.

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

Canadian Forces @CanadianForces 13 Feb tweeted: No, we are not having a baby Globemaster... ✈️ See the unloading of an F/A-18 that was "delivered" to Canada onboard a CC-177, back from helping with the AUS wildfire efforts  
RUSI(NS) retweeted: Great demonstration of strategic airlift. Part of balanced #RCAF fleet. #Airpower



The Aviationist @TheAviationist 6 Feb tweeted: Canada's First C295W in Distinctive SAR Livery On Delivery Flight to RCAF Makes Stopover In Lajes:

<https://theaviationist.com/2020/02/06/canadas-first-c295w-in-distinctive-sar-livery-makes-stopover-in-lajes-on-delivery-flight-to-rcaf/>

(C295W Fixed Wing Search and Rescue Aircraft for the Royal Canadian Air Force eventually delivered)

RUSI(NS) retweeted: Pix of #RCAF fixed wing search & rescue #FWSAR aircraft type designation CC295 (popular name not yet announced) #517, maintenance trainer

[RUSI(NS) Info Note "Aircraft Orthography" <https://rusi-ns.ca/publications/aircraft-orthography/>]



CNAS Technology and National Security Program @CNAS tech 15 Feb tweeted: "The vulnerabilities these devices are creating must be better understood if we are going to create a credible defense against an enemy inclined to exploit them," argues @ska25 in @theFifthDomain. More: (When the homefront becomes the (cyber) front line <https://www.fifthdomain.com/opinion/2020/02/03/when-the-homefront-becomes-the-cyber-front-line/>)

Elsa B. Kania @EBKania 15 Feb retweeted: This great piece by @ska25 reminds me of how a certain Chinese military strategist of information warfare has often emphasized that there is no longer any distinction between the front lines and the home-front.

RUSI(NS) thought: Yes, there is a "public information war" going on which has aspects of attacking to the heart of our defences.



Wavell Room - British Military Thinking 1@wavellroom 6 Feb tweeted: "As technology rapidly evolves, large-scale armoured warfare between peer enemies appears increasingly anachronistic and improbable" Here's one view on the future: (Big Toys: British, Ground-Launched, Long-Range Precision Strike

<https://wavellroom.com/2019/09/19/big-toys-the-requirement-for-a-british-ground-launched-long-range-precision-strike-capability/>)



4 Cdn Div / 4 Div CA @4CdnDiv4DivCA 16 Feb tweeted: Sgt Boily talks about her role on Operation Globe and assisting with the return of Canadians from Wuhan, China to 8 Wing/CFB Trenton. #OpGLOBE



(<https://twitter.com/4CdnDiv4DivCA/status/1229090129303744520>)

Canadian Armed Forces Operations @CFOperations 17 Feb retweeted: Operation GLOBE


RUSI(NS) retweeted: Operation GLOBE #OpGLOBE


<https://www.canada.ca/en/department-national-defence/services/operations/military-operations/current-operations/op-globe.html> @CanadianForces medical personnel assist Global Affairs Canada @CanadaFP @GAC\_Corporate



<p>by escorting Canadians from China #CHN to #CAF Base Trenton for lodging, medical assessment &amp; observation</p>	
<p>Royal Canadian Air Force @RCAF_ARC 18 Feb tweeted: There's a hole in my runway, dear Liza With what shall I fix it, dear Henry? With #snow, #ice and debris, of course... Canadian and US #military teamed up with industry experts to test Cold Rapid Airfield Damage Repair techniques, in Goose Bay: <a href="http://rcaf-arc.forces.gc.ca/en/article-template-standard.page?doc=canada-us-team-up-to-test-extreme-cold-weather-airfield-repair-solutions/k6qjar37">http://rcaf-arc.forces.gc.ca/en/article-template-standard.page?doc=canada-us-team-up-to-test-extreme-cold-weather-airfield-repair-solutions/k6qjar37</a> #RCAF (Canada, US team up to test extreme cold weather airfield repair solutions)</p> <p>RUSI(NS) retweeted: It's good engineering &amp; logistics (planning, equipping, training, exercising) that gets our @CanadianForces where they need to be &amp; keeps them there</p>	
<p>NCI Agency @NCIAgency 15 Feb tweeted: "The release of this IFB is a major milestone, not only for the project, but also for NATO," said the Agency's Rene Thaens on the release of an Invitation for Bid to develop NATO's first counter-drone capability. More on pages 68-70 of #NITECH Magazine. <a href="http://bit.ly/NITECH2">http://bit.ly/NITECH2</a> (NATO Innovation and Technology magazine article "Countering Drones")</p>	

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

<p>U.S. military to receive new device to capture potable water from ambient arid air</p> <p><a href="https://defence-blog.com/army/u-s-military-to-receive-new-device-to-capture-potable-water-from-ambient-arid-air.html">https://defence-blog.com/army/u-s-military-to-receive-new-device-to-capture-potable-water-from-ambient-arid-air.html</a></p> <p>Once developed this could be an extremely useful capability too for humanitarian assistance and disaster relief (HADR) operations.</p>	
--	--

<p>Telus plans rollout of 5G network using Huawei technology</p> <p><a href="https://www.cbc.ca/news/business/telus-5g-huawei-1.5462994">https://www.cbc.ca/news/business/telus-5g-huawei-1.5462994</a></p>	
---	--

This is a disturbing article at best. What is more important is that we have a private company in the form of Telus that **is** now dictating Canadian security policy.

While one cannot completely blame Telus because the Federal Government has not made a decision on 5G content in a timely fashion. However, Canada has much to lose for a wrong decision. It is now very clear that the US will cut access to information and intelligence sources to any country that uses Huawei equipment. The US Congress has already introduced the necessary legislation. The British have had a rather blunt request to reconsider their decision to use Huawei equipment in any part of their system.

Canada will be even more affected as Canada plays a major part in the defence of the US. The modernization of the North Warning System, for example, **is** a huge project with direct impact on both Canada and the US. The US will not allow anything to affect this system and it is expected that considerable pressure will be put on Canada to ensure that the defence of the US will continue to be safe.

Canada is very dependent on the US and the rest of the Five Eyes community for its information and intelligence not to mention our economy. The US is also our largest trading partner and our truest friend - despite recent events. It has always had our back even when Canada has cut defence and security capabilities and did not support US interests.

China, under the Communist Chinese Party (CCP), is not a friend and has been **an** active enemy at times (*in the* Korean War, most Canadian casualties were inflicted by the Chinese, not North Korean troops). More recently it began using economic warfare, conducting espionage as described by CSIS, and waging information warfare against Canada. We have a lot to lose and very little to gain by siding with Chinese interests. China has been a 'thug' power, it continues to be today, whether in occupied East Turkistan (Xinxiang Province), occupied Tibet, the Doklam region against India or against multiple neighbours in the South China Sea. Their recent ham-fisted conduct in dealing with the Novel Corona virus (also known as the Wuhan virus and more recently, in a measure of kowtowing to the CCP, the COVID 19 virus by WHO) is equally concerning. There are documented cases of disappearing reporters, the arrest of the original whistle blowers, alleged brutality against 'healthcare workers,' the arrest of innocent folks on the street with extreme violence, that shows that the CCP will stop at nothing to protect itself not from disease but from opposition to the CCP.

Huawei is a Chinese company; it has no choice but to comply and Mr Ren himself is a member of the CCP. They will do whatever is necessary for the CCP or they will end up in jail. The decision should be very simple; defend friends and Allies or support an adversary.

The US Navy is learning how to operate in the Arctic, and more ships may not be the answer

<https://www.businessinsider.com/us-military-presence-in-arctic-challenged-by-harsh-conditions-2020-2>



The Canadians "...have these expeditionary logistics hubs, which are not optimized for one of our (US) destroyers...(the destroyers are) too big for them..." Not only is infrastructure (marine and otherwise) in the Arctic essential, but development of that infrastructure needs to take into account growth,

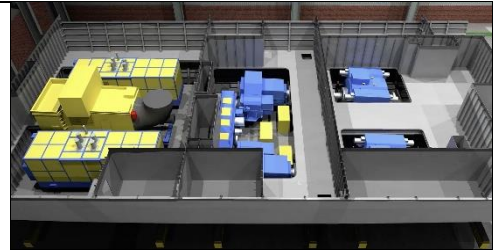
government and commercial, military and civil, Canadian and foreign. In matters military, logistics rule!

"Canada's investing very heavily in our own ship capacity, with six ice-capable Arctic offshore patrol boats and three coast guard icebreakers in the pipeline..." Nice to see a Canadian government official so assess the Canadian National Shipbuilding Strategy (by the way, they're ships, not boats). Is six naval patrol vessels enough? What about logistics ships for the North? What about under-ice-capable submarines? How many icebreakers, of what capability, do we really need, now and in the future? What we are building now does not constitute a balanced Arctic fleet.

Good to read the US is learning from us. We have a lot to learn ourselves about operating up there.

Powering the stealthy submarine hunter – Type 26 frigate propulsion system in focus

<https://www.themilitarytimes.co.uk/defence-security/powering-the-stealthy-submarine-hunter-type-26-frigate-propulsion-system-in-focus/>



A bit concerning that the specialist facility where GE Marine manufactures the Advanced Induction Motors that propel the UK Type 26 frigate (basis for the Canadian Surface Combatant) was under threat of closure until a campaign by concerned UK Members of Parliament, unions and others resulted in an advanced order for motors that saved the critical facility. How vulnerable is the supply chain for our new ships? How much of the chain is in foreign hands and lands?

Frankfurt am Main combat support vessel arrives in Kiel for iMERZ modification

<https://www.navalnews.com/naval-news/2020/02/frankfurt-am-main-combat-support-vessel-arrives-in-kiel-for-imerz-modification/>



"The 'iMERZ' (integrated Naval Rescue Centre) consists of an integrated infirmary, two operating rooms, an X-ray room, a dental technology department and various laboratories to ensure the operational readiness of the German Navy at sea." Quite the capability. It is not apparent from the article whether the new system is container-based like the previous one, though it appears so. Will the Royal Canadian Navy's replenishment oilers being built under the Joint Support Ship project have such a capability? It is certain that there will be some level of medical and dental capability built into the ships (more likely in RCN use retaining traditional/prosaic names like sickbay and dental office). The RCN is studying container-based capabilities (there has been reporting of sonar-in-a-box). A container-based medical facility to augment the ships' organic capability makes a lot of sense, particularly for humanitarian assistance and disaster relief operations.

Smart sea gliders improve US Navy's ocean observation

<https://navaltoday.com/2020/02/19/smart-sea-gliders-improve-us-navys-ocean-observation/>



"...NRL researchers have been looking at ways to optimize glider placement, including using them in teams." Hmm, what would one call groups of two or more ocean gliders? Swarms, used for aerial drones, just doesn't seem to be an appropriate term (though it is a legitimate collective noun for some types of fish). Each type of fish (and birds and other animals) has its own collective noun (see: "Collective Nouns For Fish" <https://boatgoldcoast.com.au/collective-nouns-fish/>). Maybe one of those nouns would be a good choice for two or more ocean gliders working together.

Can you imagine deploying groups of observation ocean gliders into an area in which you are about to operate your ships (which can also include surface and underwater drones)? Can you imagine the drone counter-measures that an adversary might take to reduce the observations of your drones and therefore your knowledge of the operating area?

**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.



<https://mailchi.mp/rusi.org/thisweek-14-february-167505?e=a539211a30>



Changes at the MoD: Who survived Britain's government reshuffle?

[https://www.defensenews.com/global/europe/2020/02/13/changes-at-the-mod-who-survived-britains-government-reshuffle/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%2012.14.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.defensenews.com/global/europe/2020/02/13/changes-at-the-mod-who-survived-britains-government-reshuffle/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2012.14.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



DAN TANNER: Learning on the job is at heart of police work

<https://www.thechronicleherald.ca/opinion/local-perspectives/dan-tanner-learning-on-the-job-is-at-heart-of-police-work-410444/>



How the F-35 could be a game-changer for Singapore

<https://www.defensenews.com/digital-show-dailies/singapore-airshow/2020/02/11/how-the-f-35-could-be-a-game-changer-for-singapore/>



F-15EX is a boon to Boeing, but it might not break the international fighter market

<https://www.defensenews.com/digital-show-dailies/singapore-airshow/2020/02/11/f-15ex-is-a-boon-to-boeing-but-it-might-not-break-the-international-fighter-market/>



Boeing plans trials of its Super Hornet jets on ski-jump ramp to meet Indian requirements

<https://theprint.in/defence/boeing-plans-trials-of-its-super-hornet-jets-on-ski-jump-ramp-to-meet-indian-requirements/360878/>



Singapore to pilot enhanced Airbus tanker refuelling kit

<https://www.defensenews.com/digital-show-dailies/singapore-airshow/2020/02/12/singapore-to-pilot-enhanced-airbus-tanker-refuelling-kit/>





Canadian Forces nixes post about military "bling" but moves ahead with other initiatives to recruit women

<https://ottawacitizen.com/news/national/defence-watch/canadian-forces-nixes-post-about-military-bling-but-moves-ahead-with-other-initiatives-to-recruit-women>



Canadian military works to define 'hateful conduct' to help it detect and discipline extremists

<https://www.cbc.ca/news/SOMNIA-1.5461248>



Special forces troops from Petawawa taking part in African training exercise

<https://ottawacitizen.com/news/national/defence-watch/special-forces-troops-from-petawawa-taking-part-in-african-training-exercise>



New armoured vehicle fleet faces more problems – civilian vehicle hit near Petawawa

<https://ottawacitizen.com/news/national/defence-watch/new-armoured-vehicle-fleet-faces-more-problems-civilian-vehicle-hit-near-petawawa>



The Input-Output Problem: Managing the Military's Big Data in the Age of AI

[https://warontherocks.com/2020/02/the-input-output-problem-managing-the-militarys-big-data-in-the-age-of-ai/?utm\\_source=WOTR+Newsletter&utm\\_campaign=b2aaf2811e-EMAIL\\_CAMPAIGN\\_10\\_30\\_2018\\_11\\_23\\_COPY\\_01&utm](https://warontherocks.com/2020/02/the-input-output-problem-managing-the-militarys-big-data-in-the-age-of-ai/?utm_source=WOTR+Newsletter&utm_campaign=b2aaf2811e-EMAIL_CAMPAIGN_10_30_2018_11_23_COPY_01&utm)



[medium=email&utm\\_term=0\\_8375be81e9-b2aaf2811e-8290461](https://www.navytimes.com/news/your-navy/2020/02/15/us-civilian-flights-to-resume-over-persian-gulf/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2002.18.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)

### US civilian flights to resume over Persian Gulf

[https://www.navytimes.com/news/your-navy/2020/02/15/us-civilian-flights-to-resume-over-persian-gulf/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%2002.18.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.navytimes.com/news/your-navy/2020/02/15/us-civilian-flights-to-resume-over-persian-gulf/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2002.18.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



### Europeans crank up defense spending amid doubts over US backing

[https://www.defensenews.com/smr/munich-security-conference/2020/02/15/europeans-crank-up-defense-spending-amid-doubts-over-us-backing/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%2002.18.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.defensenews.com/smr/munich-security-conference/2020/02/15/europeans-crank-up-defense-spending-amid-doubts-over-us-backing/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2002.18.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



### Pakistan tests a new cruise missile. Can it hit inside India?

[https://www.defensenews.com/global/asia-pacific/2020/02/18/pakistan-tested-a-new-cruise-missile-can-it-hit-inside-india/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%2002.19.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.defensenews.com/global/asia-pacific/2020/02/18/pakistan-tested-a-new-cruise-missile-can-it-hit-inside-india/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2002.19.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



### Israel rolls out new wartime plan to reform armed forces

[https://www.defensenews.com/global/mideast-africa/2020/02/18/israel-rolls-out-new-wartime-plan-to-reform-armed-forces/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%2002.19.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.defensenews.com/global/mideast-africa/2020/02/18/israel-rolls-out-new-wartime-plan-to-reform-armed-forces/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2002.19.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



### Canada nearly lost 2018 UN mission because it didn't have enough women in uniform

<https://www.cbc.ca/news/SOMNIA-1.5467722>



Ship seizures included ‘relatively new’ Iranian surface to air missile bound for Houthi rebels in Yemen

[https://www.militarytimes.com/flashpoints/2020/02/19/ship-seizures-included-relatively-new-iranian-surface-to-air-missile-bound-for-houthi-rebels-in-yemen/?utm\\_source=Sailthru&utm\\_medium=email&utm\\_campaign=EBB%202020.20&utm\\_term=Editorial%20-%20Early%20Bird%20Brief](https://www.militarytimes.com/flashpoints/2020/02/19/ship-seizures-included-relatively-new-iranian-surface-to-air-missile-bound-for-houthi-rebels-in-yemen/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%202020.20&utm_term=Editorial%20-%20Early%20Bird%20Brief)



Send in the army? Why one expert says that would be a 'ludicrous' response to rail blockades

<https://www.cbc.ca/news/SOMNIA-1.5469252>



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

### **#bio-printing**

West Point researching bio-printed bandages and organs for field care

<https://www.armytimes.com/news/2020/02/18/west-point-researching-bio-printed-bandages-and-organs-for-field-care/>

### **#drones**

Report on Pentagon Counter-Drone Weapons

<https://news.usni.org/2020/02/14/report-on-pentagon-counter-drone-weapons>

### **#information operations**

How memes are becoming the new frontier of information warfare

<https://www.aspistrategist.org.au/how-memes-are-becoming-the-new-frontier-of-information-warfare/>

### **#IT security**

5G Cyber Security: A Risk-Management Approach

<https://rusi.org/publication/occasional-papers/5g-cyber-security-risk-management-approach>

### **#land warfare**

Small Units in Big Wars: How Platoons and Squads Should Prepare for Large-Scale Combat Operations - Modern War Institute

<https://www.armytimes.com/2020/02/13/how-small-units-can-prepare-for-large-scale-combat-operations/>

### **#logistics**

All Things Merchant Marine with Dr. Sal Mercogliano

Note the defence sealift aspects in the articles listed: <http://cimsec.org/sea-control-159-all-things-merchant-marine-with-dr-sal-mercogliano/43059>

## **#strategy**

Technocrats and Operational Experts

<https://warroom.armywarcollege.edu/special-series/dusty-shelves/technocrats-and-operational-experts/>

Five Things That Helped Carl von Clausewitz Become A Great Strategic Thinker

<https://thestrategybridge.org/the-bridge/2017/4/19/five-things-that-helped-carl-von-clausewitz-become-a-great-strategic-thinker>

Who was Sun Tzu's Napoleon?

<https://thestrategybridge.org/the-bridge/2020/2/11/who-was-sun-tzus-napoleon>

## **#warfare**

Technological Optimism and the Imagined Future: Implications for Warfare

<https://thestrategybridge.org/the-bridge/2020/2/18/technological-optimism-and-the-imagined-future-implications-for-warfare>