

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine.

As a reminder, please join us at the two upcoming CSN events:

**1-Year Celebration of CSN**

**6 April / 1630 at the Trident Room, NPS**

The Trident room has indoor and outdoor seating / no registration or RSVP needed.

**[Climate Security Leaders Panel](#)**

**25 April / 1200 – 1300 PT**

Have a Happy April Fool's!

Kristen

Kristen M Fletcher

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**NPS Climate & Security Network Weekly Update: 1 April 2022**

**Special Section: Ukraine**

- Wall Street Journal: [Ukraine War Drives Up Cost of Wind, Solar Power](#)
- Inside Climate News: [Why Russia's War is So Devastating to Climate Science](#)
- Sustainability Magazine: [Russia's war impacts fossil fuels and climate change](#)
- Inside Climate News: [Germany's New Government Had Big Plans on Climate, Then Russia Invaded Ukraine. What Happens Now?](#)
- Inside Climate News: [War's Toll on Ukraine's Once Vibrant Environmental Movement](#)

**NEWS**

- [Climate Investments Tied to Mission Objectives, DOD Official Says](#)  
1 April 2022, DOD Release
- [US Needs Better Climate Forecasting, Wargaming, Report Finds](#)  
31 March 2022, Defense One
- [The US Can't Seem to Quit Russian Uranium](#)  
31 March 2022, The Verge
- [Biden to invoke Defense Production Act on battery minerals](#)  
30 March 2022, E&E News
- [Building climate change resilience: Policy measures by US Navy](#)  
30 March 2022, Global Village Space
- [GSA Lightens the Environmental Footprint of its Building Materials](#)  
30 March 2022, U.S. General Services Administration Release

- [\*\*New program looks to boost climate resilience around bases\*\*](#)  
30 March 2022, Coastal Review
- [\*\*DOE Releases Energy-Saving Rules for Federal Buildings and Proposes New Standards for Consumer Appliances\*\*](#)  
30 March 2022, Department of Energy Release
- [\*\*Energy security and climate change demand real action, not shaky promise of ‘low-emission gas’\*\*](#)  
29 March 2022, Virginia Mercury
- [\*\*Statement by Secretary of Defense Lloyd J. Austin III on the President’s Fiscal Year 2023 Budget\*\*](#)  
28 March 2022, DoD Release
- [\*\*House Armed Services Committee Talks Climate Strategies and Resiliency\*\*](#)  
28 March 2022, Center for Climate & Security
- [\*\*Redefining National Security\*\*](#)  
28 March 2022, New Security Beat
- [\*\*US seeks new lithium sources as demand for batteries grow\*\*](#)  
28 March 2022, AP News Agency
- [\*\*Department of Commerce to forward with solar anticircumvention investigation\*\*](#)  
28 March 2022, pv magazine
- [\*\*With Eyes on Russia, the U.S. Military Prepares for an Arctic Future\*\*](#)  
27 March 2022, New York Times
- [\*\*A heat wave and snowfall: Why researchers are puzzled by Antarctica’s recent weather\*\*](#)  
27 March 2022, NBC News
- [\*\*Energy efficiency guru Amory Lovins: ‘It’s the largest, cheapest, safest, cleanest way to address the crisis’\*\*](#)  
26 March 2022, The Guardian
- [\*\*Granholm: Fighting energy supply disruptions and climate change is ‘not a binary choice’\*\*](#)  
25 March 2022, Politico
- [\*\*Climate change and global security\*\*](#)  
25 March 2022, Investors’ Corner
- [\*\*IPCC Authors Underscore Importance of Governance, Adaptation to Reduce Climate Vulnerability\*\*](#)  
24 March 2022, Center for Climate & Security
- [\*\*Air Force water resilience tools crucial for mission assurance\*\*](#)  
22 March 2022, Air Force Release
- [\*\*Hanscom team to launch new DOD weather portal\*\*](#)  
21 March 2022, Air Force Release

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [The UK's Defence Contribution in the High North](#)  
UK Ministry of Defence, March 2022
- **Report:** [Challenge Accepted: A Progress Report on The Climate Security Plan for American and Recommendations for the Way Ahead](#)  
Center for Climate and Security, March 2022
- **Fact Sheet:** [2022 National Defense Strategy](#)  
U.S. Department of Defense, March 2022
- **Resources:** [Read, Watch, Listen: CCS Across the Web for March 2022](#)  
Center for Climate and Security, 1 April 2022
- **Online Map Tool:** [Site Renewables Right](#)  
The Nature Conservancy, March 2022

## EVENTS

- [What is Water's Role in a Carbon Neutral Future?](#)  
4 – 6 April 2022 / Virtual  
Sandia National Laboratories
- **[CSN] 1-year CSN Celebration**  
**6 April / 1630 at the Trident Room, NPS**  
The Trident room has indoor and outdoor seating.  
No registration or RSVP needed.
- [Arctic Encounter Symposium](#)  
7-8 April 2022 / Anchorage
- **[NEW] [Living with Climate Change: The Polar Vortex](#)**  
13 April 2022 / 12:00 – 1:30 ET / 9:00 – 10:30 PT / Virtual  
Environment and Energy Study Institute
- [Electrifying the Future Fleet](#)  
19 April 2022 / Virtual  
Leonardo DRS
- **[NEW] [Climate Conversations: Sea Level Rise](#)**  
21 April 2022 / 3 – 4 pm ET / Noon – 1 pm PT / Virtual  
National Academies of Science, Engineering and Medicine
- **[CSN] [Climate Security Leaders Panel](#)**  
25 April 2022 / 1200 – 1300 PT  
No registration needed.
- [Reducing Arctic Risks and Advancing Cooperation](#)  
3 – 6 May 2022 / Anchorage & Hybrid  
Arctic Domain Awareness Center
- [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)

21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment

## OPPORTUNITIES

- **[Comments for Carbon Capture, Utilization and Sequestration Guidance](#)**  
The Council on Environmental Quality (CEQ) seeks comment on an interim guidance document, "Carbon Capture, Utilization, and Sequestration Guidance." **Comments due 18 April 2022** to [Amy.B.Coyle@ceq.eop.gov](mailto:Amy.B.Coyle@ceq.eop.gov).
- **[\[NEW\] Request for Input for the National Academies of Science, Engineering, and Medicine on Technologies to Advance Antarctic/Polar Research](#)**  
From 3-5 May 2022, the NASEM will be hosting a forum dedicated to understanding technologies that can advance Antarctic and Polar Research. NASEM seeks input to this workshop, including creative ideas regarding existing or possible new technologies that could be used to advance key aspects of Antarctic/polar research. **Submission deadline is 20 April.**
- **[ONR Funding Opportunity Announcement: Topic 12 – Climate Change Risk and Decision Superiority](#)**  
FOA (N00014-22-S-F002) - Topic 12, Climate Change Risk and Decision Superiority  
**White papers due 16 May 2022; proposals accepted through 9 September 2022.**

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine and, in the Resources section, a link to the latest [IPCC Report](#) that was issued this week, focused on mitigation.

Also, I want to highlight a few upcoming CSN Events. On 25 April, the [Climate Security Leaders Panel](#) features NPS student, alumni and staff who are currently serving as fellows or postdocs working on climate and security issues. I encourage NPS students and faculty to attend to hear about the various ways our community is contributing on these topics and how to engage in opportunities like these.

In addition, on 19 April, CSN Members are featured on a [Climate Security Panel](#) for the Naval Research Working Group at NPS. Visit [NRWG](#) to register.

Thanks to everyone who sends along items for inclusion in the weekly email!

Kristen

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**NPS Climate & Security Network Weekly Update: 8 April 2022**

### **Special Section: Ukraine**

- NPR: [How the war in Ukraine could speed up Europe's climate plans](#)
- Reuters: [Lithuania ceasing all Russian gas imports for domestic needs](#)
- The Hill: [Baltics cut off Russian Gas, but Germany, EU face Struggle](#)
- Webinar Video / Our Energy Policy: [Russia, Ukraine & U.S. Energy Markets](#)
- Inside Climate News: [Russia's War in Ukraine Reveals a Risk for the EV Future: Price Shocks in Precious Metals](#)
- Project Syndicate: [Replace Russian Oil and Gas with Renewables](#)
- Global Citizen: [How War Impacts Climate Change and the Environment](#)
- Science Business: [Anti-War Russian scientists ambivalent over scientific sanctions against them](#)

### **NEWS**

- [Q&A: What does the UK's new energy security strategy mean for climate change?](#)  
8 April 2022, Carbon Brief
- [An Interview with CS2P Co-Founder, Sofia Kabbej, on "Questions of Climate Security and Peace"](#)  
8 April 2022, Center for Climate and Security
- [National laboratory director talks climate change, infrastructure and more](#)  
7 April 2022, Washington State University
- [The Climate Solutions That Play Double-Duty](#)

- 7 April 2022, New Security Beat
- [Pa. Court Blocks Gov. Tom Wolf's Carbon Emissions Plan](#)  
6 April 2022, NBC News
  - [Biden admin worries climate change will take a toll on federal budgets for years to come](#)  
5 April 2022, Federal News Network
  - [SEA-AIR-SPACE NEWS: Navy Undersecretary Warns of Climate Change Challenges](#)  
4 April 2022, National Defense
  - [Accelerate the energy transition to protect national security](#)  
4 April 2022, pv Magazine
  - [US Navy has a \\$14 Million Stealthy Solar Energy Electric Aircraft Up Its Sleeve](#)  
4 April 2022, CleanTechnica
  - [U.S. House Adaptation Hearings Offer Insights for Climate Security Action](#)  
4 April 2022, Center for Climate and Security
  - [Climate Investments Tied to Mission Objectives, DOD Official Says](#)  
1 April 2022, Department of Defense Release
  - [How it the U.S. military preparing for rising climate security risks?](#)  
31 March 2022, Thomas Reuters Foundation
  - [The EU's gas-buying cartel: 5 reasons why it's going to be messy](#)  
31 March 2022, Politico
  - [Crouching Tiger, Hidden Decarbonization: China's National Emissions Trading System](#)  
31 March 2022, New Security Beat
  - [Can 24/7 carbon-free energy become a global standard?](#)  
31 March 2022, Canary Media
  - [Deadly 'Smoke Waves' From Wildfires Set to Soar](#)  
28 March 2022, Inside Climate News

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Assessing the U.S. Climate in March 2022](#)  
National Centers for Environmental Information, 8 April 2022
- **Report:** [IPCC Sixth Assessment Report: Mitigation of Climate Change](#)  
Intergovernmental Panel on Climate Change, April 2022
- **White Paper:** [Climate Risk Exposure: An Assessment of the Federal Government's Financial Risks to Climate Change](#)  
Office of Management and Budget, April 2022
- **Podcast:** [Climate Change and Insurance with Eugene Linden](#)  
Lawfare, 7 April 2022
- **Briefing:** [Quantifying Risks to the Federal Budget from Climate Change](#)  
White House Blog, 4 April 2022

- **Website:** [GHG Emission Factors Hub](#)  
Environmental Protection Agency, April 2022
- **Database:** [Carbon Dioxide Removal Law Database](#)  
Sabin Center for Climate Change Law, Ongoing
- **Report:** [The Lost Years: Counting the Costs of Climate Inaction in Australia](#)  
Climate Council (AUS), March 2022
- **Report:** [Feeling the Heat: Adapting to Climate Change in the Middle East and Central Asia](#)  
International Monetary Fund, 30 March 2022
- **Release:** [Letter from the President on the Implementation of the Global Fragility Act](#)  
White House, 1 April 2022
- **Fact Sheet:** [President Biden's Plan for Respond to Putin's Price Hike at the Pump](#)  
White House, 31 March 2022

## EVENTS

- **[NEW] [System Shock: Russian's War and Global Food, Energy and Mineral Supply Chain](#)**  
13 April 2022 / 11:30 am – 1:00 pm ET / Virtual  
Wilson Center
- **[Living with Climate Change: The Polar Vortex](#)**  
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19 April 2022 / 12:00 – 1:00 PT / Virtual  
Naval Research Working Group; visit [NRWG](#) to register through the WHOVA app.
- **[Electrifying the Future Fleet](#)**  
19 April 2022 / Virtual  
Leonardo DRS
- **[NEW] [Annual Conference on Global Climate Litigation](#)**  
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- [\*\*Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment\*\*](#)  
21 – 24 June 2022 / Virtual  
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## **OPPORTUNITIES**

- [\*\*Comments for Carbon Capture, Utilization and Sequestration Guidance\*\*](#)  
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FOA (N00014-22-S-F002) - Topic 12, Climate Change Risk and Decision Superiority  
**White papers due 16 May 2022; proposals accepted through 9 September 2022.**



Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine.

I want to highlight an NPS article about a recent Capstone project:

[\*\*NPS Students Explore Potential Cost Efficiency of Battery-Powered Warships\*\*](#)

Congratulations to NPS graduates Lt. Cmdr. Evan Bloxham and Lts. Christopher Masters and Ashraful Haque whose work exploring the fiscal viability of lithium-ion battery powered warships will contribute to a Naval Research Program project to support the DOD's effort to achieve net-zero emissions by 2050. I was honored to serve as an advisor for this project alongside Professor Simona Tick of Defense Management.

Finally, a big thanks to Rebecca Hoag, Science Writer with NPS Public Affairs, for covering Climate and Security work at NPS so thoroughly and thoughtfully!

Kristen

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**NPS Climate & Security Network Weekly Update: 15 April 2022**

### **Special Section: Ukraine**

- Center for Climate & Security: [\*\*A Case Study in the Environmental Risks of War: Kyiv Hydroelectric Power Plant\*\*](#)
- Bloomberg: [\*\*Food Prices Jump Most on Record as War Sparks Supply Chaos\*\*](#)
- NPR: [\*\*How sanctions against Russia could set back climate change work in the Arctic\*\*](#)
- Canary Media: [\*\*Putin's war will drive a faster shift to clean energy\*\*](#)
- RTE: [\*\*Will the Ukraine war be a catalyst for our climate change targets?\*\*](#)
- Inside Climate News: [\*\*As Russia's War In Ukraine Disrupts Food Production, Experts Question the Expanding Use of Cropland for Biofuels\*\*](#)

### **NEWS**

- [\*\*Analysis: Biden plan to aid Europe with LNG poses risk to US climate goals\*\*](#)  
14 April 2022, Reuters
- [\*\*Power Struggle: How the US Army is tackling the logistics of battlefield electricity\*\*](#)  
12 April 2022, Defense News
- [\*\*RAND: All National Critical Functions at Risk from Climate Change\*\*](#)  
12 April 2022, Homeland Security Today
- [\*\*Climate Security Experts Grade Biden Administration on Progress Made\*\*](#)  
12 April 2022, Homeland Security Today
- [\*\*Savannah-area leaders call for climate action\*\*](#)

12 April 2022, The Current

- [\*\*Military experts urge climate-focused foreign aid\*\*](#)  
12 April 2022, ClimateWire
- [\*\*Climate Change Looms Large in US Treaty Talks in The Pacific\*\*](#)  
12 April 2022, Honolulu Civil Beat
- [\*\*No Time for Half Measures: A Security Perspective on the New IPCC Report on Mitigation\*\*](#)  
12 April 2022, Center for Climate and Security
- [\*\*NASA building ‘game changing’ electric car battery that charges in 15 minutes\*\*](#)  
12 April 2022, Independent
- [\*\*White House eyes water security strategy\*\*](#)  
12 April 2022, Axios
- [\*\*Solar-hybrid systems make logistical impact on JBER\*\*](#)  
8 April 2022, Joint Base Elmendorf-Richardson Release
- [\*\*A low-cost, low-tech climate solution that saves lives\*\*](#)  
8 April 2022, NY Times
- [\*\*NREL Researchers Plot Energy Storage Under Our Feet\*\*](#)  
8 April 2022, National Renewable Energy Laboratory
- [\*\*Here is Joe Biden’s plan to build a 21<sup>st</sup>-century power grid\*\*](#)  
8 April 2022, Energy Monitor
- [\*\*San Diego’s Miramar Marine Corps Air Station invests in renewable energy, microgrid\*\*](#)  
7 April 2022, Yale Climate Connections
- [\*\*U.K. Bets Big on Nuclear, Wind in Energy Security Strategy\*\*](#)  
6 April 2022, Bloomberg
- [\*\*Beware: Russia’s new energy sources down but not out\*\*](#)  
21 March 2022, Atlantic Council

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [\*\*Climate Change, Security and Political Coherence in the South and East China Seas\*\*](#)  
Center for Climate & Security, 13 April 2022
- **Report:** [\*\*How Climate Change May Affect the US Economy\*\*](#)  
Congressional Research Service, 4 April 2022
- **Policy Brief:** [\*\*A European Green Deal for militaries to strengthen Europe’s Defence\*\*](#)  
Planetary Security Initiative, April 2022
- **Report:** [\*\*A Decarbonization Roadmap for California\*\*](#)  
SDE&G, April 2022

## EVENTS

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19 April 2022 / 12:00 – 1:00 PT / Virtual  
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NPS Climate & Security Network
- **[NEW] [Protecting the Planet Wherever you are](#)**  
28 April 2022 / 1100 – 1200 ET / 0800-0900 PT / Webinar  
Bill Nye the Science Guy will talk with Federal Chief Sustainability Officer Andrew Mayock for the second event of the Sustainability Speaker Series for the Federal Community.  
White House Office of the Federal Chief Sustainability Officer
- **[Reducing Arctic Risks and Advancing Cooperation](#)**  
3 – 6 May 2022 / Anchorage & Hybrid  
Arctic Domain Awareness Center
- **IPCC WG II and III Reports: Featuring Ko Barrett, NOAA Senior Advisor for Climate**  
12 May 2022 / 1100 ET / 0800 PT  
Joint RECESS/ICESWG Presentation [email [kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu) for information on how to join RECESS and/or ICESWG]
- **[Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)**  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment

## OPPORTUNITIES

- **[NEW] [Request for Comment: Statement of Principles for Climate-Related Financial Risk Management for Large Financial institutions](#)**  
The Federal Deposit Insurance Corporation (FDIC) is requesting comment on draft principles to provide a high-level framework for safe and sound management of exposures to climate-related financial risks. **Comments due 3 June 2022.**
- **[NEW] [National Transmission Planning Study](#)**  
The Department of Energy is conducting the National Transmission Planning Study to identify transmission that will provide broad-scale benefits to electric customers; inform

regional and interregional transmission planning processes; and identify interregional and national strategies to accelerate decarbonization while maintaining system reliability. Information, webinar video and ability to comment on plan are at link.

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**White papers due 16 May 2022; proposals accepted through 9 September 2022.**

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I hope you can join us on Monday at our next CSN event:

**[\[CSN\] Climate Security Leaders Panel](#)**

25 April 2022 / 1200 – 1300 PT

NPS Climate & Security Network

This will feature NPS students, alumni and staff who are taking leading roles in climate security. It will include 3 Barrow Fellows – all of whom recently completed the 9-month fellowship. As Barrow Fellows, they each wrote an information paper. Topics were:

- Myles: Climate Change as a Strategic Interest in the INDOPACOM
- Yanuzzi: Climate-induced Security Threats and Security Sector Assistance
- Widulinski: Climate Change Planning and Mitigation as a Tool for Increased Cooperation within the Republic of South Korea-US Alliance

Congratulations to these students. Finally, I want to wish everyone a **Happy Earth Day!**

Kristen

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**NPS Climate & Security Network Weekly Update: 22 April 2022**

**Special Section: Ukraine**

- USDA: [The Ukraine Conflict and Other Factors Contributing to High Commodity Prices and Food Insecurity](#)
- GreenWire: [EPA Gears up to aid Ukraine](#)
- International Food Policy Research Institute: [The Russian invasion of Ukraine threatens to further exacerbate the food insecurity emergency in Yemen](#)
- ABC News: [Experts predict lasting environmental damage from Russia's invasion of Ukraine](#)
- The Barents Observer: [Isolated Russia says it will invite "non-Arctic" states to develop its North](#)
- Inside Climate News: [Should EPA Back-Off Pollution Controls to Help LNG Exports Replace Russian Gas in Germany?](#)
- Wilson Center: [System Shock: Russia's War and Global Food, Energy and Mineral Supply Chains](#)

**NEWS**

- [Why tackling global warming is a challenge without precedent](#)  
23 April 2022, The Economist
- [With coal surge, China puts security and growth before climate](#)

22 April 2022, Washington Post

- [\*\*Farming for our Future: Climate-Neutral Agriculture in the United States and Beyond\*\*](#)  
21 April 2022, New Security Beat
- [\*\*New Pentagon Inspector General Report on Climate Resilience in the Arctic: Key Takeaways\*\*](#)  
21 April 2022, Center for Climate & Security
- [\*\*Fight against Climate Change takes on national security implications\*\*](#)  
21 April 2022, NBC News
- [\*\*CEQ Restores Three Key Community Safeguards during Federal Environmental Reviews\*\*](#)  
19 April 2022, White House Release
- [\*\*Biden restores climate to NEPA, undoing Trump's efforts\*\*](#)  
19 April 2022, E&E News
- [\*\*Climate action, as patriotism\*\*](#)  
19 April 2022, Yale Climate Connections
- [\*\*Pendleton Takes Steps Toward Wildlife Preservation\*\*](#)  
19 April 2022, DOD Release
- [\*\*Integrating Climate Change into the US Global Fragility Strategy: A New "Prologue"\*\*](#)  
19 April 2022, Center for Climate & Security
- [\*\*White House forced to defend Biden's climate agenda after setbacks\*\*](#)  
18 April 2022, Financial Times
- [\*\*Northern-Most Military Bases Not Prepared for Climate Change, Pentagon Report Says\*\*](#)  
16 April 2022, The Weather Channel *[see report below]*
- [\*\*Climate Change: Key UN finding widely misinterpreted\*\*](#)  
16 April 2022, BBC News
- [\*\*In chilly parts of Europe, heatwaves strengthen environmentalism\*\*](#)  
16 April 2022, The Economist
- [\*\*Climate toll on Arctic bases: Sunken runways, damaged roads\*\*](#)  
15 April 2022, AP News *[see report below]*
- [\*\*EPA Publishes 29<sup>th</sup> Annual U.S. Greenhouse Gas Inventory\*\*](#)  
14 April 2022, EPA Release
- [\*\*DoD to Build Project Pele Mobile Microreactor and Perform Demonstration at Idaho National Laboratory\*\*](#)  
13 April 2022, DoD Release
- [\*\*Record amounts of zero-carbon electricity generation and storage now seeking grid interconnection\*\*](#)  
13 April 2022, Berkeley Lab

- [EverLoNG ship-based carbon capture project wins EU funding](#)  
7 April 2022, Offshore Energy

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Fact Sheet:** [Biden-Harris Administration Creates Cost-Saving Clean Energy Opportunities to Combat Climate Crisis](#)  
White House Fact Sheet, 20 April 2022
- **Report:** [Evaluation of the Department of Defense's Efforts to Address the Climate Resilience of U.S. Military Installations in the Arctic and Sub-Arctic](#)  
DOD Inspector General, 13 April 2022
- **Report:** [Global Climate Report: March 2022](#)  
NOAA National Centers for Environmental Information, 14 April 2022
- **Fact Sheet:** [Green Shipping Corridors](#)  
Department of State Release, 12 April 2022

## EVENTS

- **[CSN]** [Climate Security Leaders Panel](#)  
25 April 2022 / 1200 – 1300 PT  
NPS Climate & Security Network
- **[NEW]** [Clean energy in a time of global conflict](#)  
26 April 2022 / 1:00 pm ET / 10:00 am PT / Virtual  
Canary Media
- **[NEW]** [Briefing Series: Scaling Up Innovation to Drive Down Emissions: Green Hydrogen](#)  
27 April 2022 / 1:00 pm – 2:30 pm ET / 10:00 am – 11:30 am PT / Virtual  
Environmental and Energy Studies Institute
- **[NEW]** [CEO Series: A Conversation with National Grid CEO, John Pettigrew](#)  
27 April 2022 / 10:00 am ET / 7:00 am PT / Virtual  
Atlantic Council
- [Protecting the Planet Wherever you are](#)  
28 April 2022 / 1100 – 1200 ET / 0800-0900 PT / Webinar  
Bill Nye the Science Guy will talk with Federal Chief Sustainability Officer Andrew Mayock for the second event of the Sustainability Speaker Series for the Federal Community.  
White House Office of the Federal Chief Sustainability Officer
- **[NEW]** [Leveraging Existing Organizational Capacity for Investment to Drive Decarbonization](#)  
29 April 2022 / 9:30 – 11:30 am ET / 6:30 – 8:30 am PT  
National Academies of Science, Engineering and Medicine
- [Reducing Arctic Risks and Advancing Cooperation](#)  
3 – 6 May 2022 / Anchorage & Hybrid

Arctic Domain Awareness Center

- **[\[NEW\] Climate Change: Causes, Effects and Solutions](#)**  
6-part Lecture Series on Wednesdays, featuring Mike Clancy  
4 May – 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual  
Wave Street Live  
Note: Mr. Clancy presented on Wind Energy to the CSN in October 2021: [video available](#).
- **[\[NEW\] Benefits, Applications and Opportunities of Natural Infrastructure](#)**  
10 – 11 May 2022 / 8 am – 4 pm ET / 5 am – 1 pm PT / Virtual or Athens, Georgia  
National Academies of Science, Engineering and Medicine
- **[IPCC WG II and III Reports: Featuring Ko Barrett, NOAA Senior Advisor for Climate](#)**  
12 May 2022 / 1100 ET / 0800 PT  
Joint RECESS/ICESWG Presentation [email [kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu) for information on how to join RECESS and/or ICESWG]
- **[\[NEW\] White House Environmental Justice Advisory Council Virtual Public Meeting](#)**  
11-12 May 2022 / 3:00 pm ET / 12:00 pm PT / Virtual  
White House / Environmental Protection Agency
- **[\[NEW\] Climate Leadership Conference](#)**  
24-26 May / Washington DC  
Center for Climate and Energy Solutions, The Climate Registry
- **[Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)**  
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## OPPORTUNITIES

- **[Request for Comment: Statement of Principles for Climate-Related Financial Risk Management for Large Financial Institutions](#)**  
The Federal Deposit Insurance Corporation (FDIC) is requesting comment on draft principles to provide a high-level framework for safe and sound management of exposures to climate-related financial risks. **Comments due 3 June 2022.**
- **[National Transmission Planning Study](#)**  
The Department of Energy is conducting the National Transmission Planning Study to identify transmission that will provide broad-scale benefits to electric customers; inform regional and interregional transmission planning processes; and identify interregional and national strategies to accelerate decarbonization while maintaining system reliability. Information, webinar video and ability to comment on plan are at link.
- **[ONR Funding Opportunity Announcement: Topic 12 – Climate Change Risk and Decision Superiority](#)**  
FOA (N00014-22-S-F002) - Topic 12, Climate Change Risk and Decision Superiority  
**White papers due 16 May 2022; proposals accepted through 9 September 2022.**



**25 April 2022 (Special update)**

Dear CSN Members,

Just wanted to highlight a couple of items for you early in the week.

First, President Biden issued an Executive Order on Friday (Earth Day) related to forests and wildfires:

**[Executive Order on Strengthening the Nation's Forests, Communities and Local Economies](#)**

Resources:

[White House Fact Sheet](#)

[Secretary of Agriculture Statement](#)

Perspectives:

CBS News: [Biden executive order seeks to protect old-growth forests from wildfire](#)

Wildfire Today: [Executive Order to inventory and protect old-growth forests](#)

EconoTimes: [Joe Biden signs executive order protecting US old-growth forests from wildfires](#)

Earth.com: [President Biden moves to strengthen forests, boost wildfire resilience](#)

Also, the site Task & Purpose is running a week-long series entitled **[War and Climate Week](#)** including targeted articles and videos on extreme weather, natural disasters, depleting resources and how they affect the U.S. military. There's a brief overview video [here](#).

Hope to see you at our CSN event today at 1200 PT: **[Climate Security Leaders Panel](#)**

Have a good week,

Kristen

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine.

**For NPS members, please plan to join us for:**

**CSN Research Roundtable**

**12 May / 1400-1500**

In-person on Campus + Virtual via Teams

*Building/Room and Teams link to follow early next week.*

At the Roundtable, NPS faculty and students will have a chance to share information about climate and security related research and hear about research being conducted across campus. We'll also discuss the launch of the CSN Research Initiative which the Network will focus on in 2022 and hear about current and upcoming funding opportunities.

Have a good weekend,

Kristen

Kristen M Fletcher

Faculty Associate-Research / Naval Postgraduate School

[Energy Academic Group](#) / [Climate & Security Network](#)

Office: 831.920.1090 | Cell: 401.714.4686

[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 6 May 2022**

**Special Section: Ukraine**

- Defense News: [Fossil Fuels are the Achilles' heel of warfare. Just ask Russia.](#)
- Bloomberg: [ECB's Schnabel Sees Climate Change, War Leading to Higher Rates](#)
- Atlantic Council: [Keeping Europe united: A roadmap for avoiding Russia's trap](#)
- New Security Beat: [Grains and Hydrocarbons: The Middle East and the War in Ukraine](#)
- 2°C Podcast: [Russia's Failure as a Petro-State. Climate and Security](#)
- Atlantic Council: [The ruble gas gamble](#)
- New York Times: [Europe's Quest to Replace Russian Gas Faces Plenty of Hurdles](#)
- The National Interest: [The West's Economic War Against Russia Is Imperiling the World](#)

**NEWS**

- [Bipartisan climate talks picks up steam](#)  
6 May 2022, The Hill
- [Why prioritizing military might over net zero makes no sense](#)  
5 May 2022, Energy Monitor
- [To our peril, the world isn't taking climate change seriously](#)  
5 May 2022, Chicago Tribune
- [Unpacking the Pentagon's \\$3.1 Billion Climate Request](#)  
5 May 2022, Center for Climate and Security

- [Communique of the 1079<sup>th</sup> meeting of the PSC held on 21 April 2022, on Climate Change, Peace and Security in Africa](#)  
4 May 2022, ReliefWeb
- [Can FERC convince utilities to build modern transmission systems?](#)  
4 May 2022, Utility Dive
- [Stanford receives \\$1.1 billion from John Doerr for climate crisis, sustainability school](#)  
4 May 2022, LA Times
- [Climate Leaders Call for Urgent Action, Focus on Equity](#)  
4 May 2022, Tufts Now
- [The fight for a national clean energy transmission system emerges on three fronts](#)  
3 May 2022, Utility Dive
- [Preventing Water Conflict Through Dialogue](#)  
2 May 2022, New Security Beat
- [Lawmakers consider carbon border tax, environmental reviews at bipartisan climate meeting](#)  
2 May 2022, The Hill
- [AI's effect on climate change: Both good and bad](#)  
28 April 2022, Tech Target
- [NPS Research in Extreme Weather Prediction Prepares for Future Computing Capabilities](#)  
27 April 2022, Navy Release

#### **REPORTS, PUBLICATIONS & OTHER RESOURCES**

- **Data Resource:** [Human Geography Library](#)  
World-Wide Human Geography Data Working Group, March-April 2022
- **Report:** [A Research Strategy for Ocean-based Carbon Dioxide Removal and Sequestration](#)  
National Academies of Sciences, Engineering and Medicine, 2022
- **Fact Sheet:** [Climate Security in 2022](#)  
Center for Climate & Security, April 2022
- **Book:** [States and Nature: The effects of Climate Change on Security](#)  
Cambridge University Press, March 2022
- **Paper:** [Incorporating Climate Change in NEPA Reviews: Recommendations for Reform](#)  
Sabin Center for Climate Change Law, 2 May 2022

#### **EVENTS**

- [Climate Change: Causes, Effects and Solutions](#)  
6-part Lecture Series, featuring Mike Clancy  
Wednesdays through 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual

Wave Street Live

**May 11 Topic:** Radiative Forcing, the Greenhouse Effect and Greenhouse Gases, Feedback Loops and Tipping Points

- [\*\*Benefits, Applications and Opportunities of Natural Infrastructure\*\*](#)  
10 – 11 May 2022 / 8 am – 4 pm ET / 5 am – 1 pm PT / Virtual or Athens, Georgia  
National Academies of Science, Engineering and Medicine
- **IPCC WG II and III Reports: Featuring Ko Barrett, NOAA Senior Advisor for Climate**  
12 May 2022 / 1100 ET / 0800 PT  
Joint RECESS/ICESWG Presentation [email [kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu) for information on how to join RECESS and/or ICESWG]
- [\*\*White House Environmental Justice Advisory Council Virtual Public Meeting\*\*](#)  
11-12 May 2022 / 3:00 pm ET / 12:00 pm PT / Virtual  
White House / Environmental Protection Agency
- **[NEW] [Climate Change Impacts on National Security in South Florida](#)**  
16 May 2022 / 2:00 – 3:30 pm ET / Miami  
American Security Project / Florida International University
- [\*\*Climate Leadership Conference\*\*](#)  
24-26 May / Washington DC  
Center for Climate and Energy Solutions / The Climate Registry
- **[NEW] [rEVolution: The Future of Electric Vehicles \(EVs\) and the Military](#)**  
25 May 2022 / 1200 ET / 0900 PT / Virtual  
American Security Project
- **[NEW] [Climate Change: The Rising Costs to Our Military and Coastal Communities](#)**  
26 May 2022 / 1630 – 1830 ET / Norfolk, VA  
American Security Project / E2
- **[NEW] [Water in the MENA region – victim & casualty rather than source of conflict](#)**  
31 May 2022 / 1600 – 1730 BST / 0800 – 0930 PST / Virtual  
Kings College London / School of Global Affairs
- [\*\*Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment\*\*](#)  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment

## OPPORTUNITIES

- [\*\*NOAA Fisheries Invites Public Comment on Draft Climate Regional Action Plans\*\*](#)  
NOAA Fisheries is soliciting input on its draft Climate Regional Action Plans to address climate-science needs in each region over the next three years. **Comments due 2 June 2022.**
- [\*\*Request for Comment: Statement of Principles for Climate-Related Financial Risk Management for Large Financial institutions\*\*](#)

The Federal Deposit Insurance Corporation (FDIC) is requesting comment on draft principles to provide a high-level framework for safe and sound management of exposures to climate-related financial risks. **Comments due 3 June 2022.**

- **[ONR Funding Opportunity Announcement: Topic 12 – Climate Change Risk and Decision Superiority](#)**

FOA (N00014-22-S-F002) - Topic 12, Climate Change Risk and Decision Superiority  
**White papers due 16 May 2022; proposals accepted through 9 September 2022.**

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine.

Thanks to those who helped to execute & those who attended the research roundtable on Thursday!

Have a good weekend,

Kristen

Kristen M Fletcher  
Faculty Associate-Research / Naval Postgraduate School  
[Energy Academic Group](#) / [Climate & Security Network](#)  
Office: 831.920.1090 | Cell: 401.714.4686  
[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 13 May 2022**

### **Special Section: Ukraine**

- Atlantic Council: [Gazprom set the Russian invasion of Ukraine in motion](#)
- New Security Beat: [System Shock: Russia's War and Global Food, Energy and Mineral Supply Chains](#)
- Just Security: [Climate Security, Energy Security and the Russia-Ukraine War](#)
- Frontline: [Wildfires in Russia; Will the Ukraine conflict limit firefighting response?](#)
- Associated Press: [Putin urges stronger action to prevent wildfires](#)
- USDA: [World Agricultural Production Report: Ukraine](#)
- Ecosystems Sub-Working Group: [Interagency Working Group on Environmental Damage in Ukraine \(9 May\)](#) (*account required*)

### **NEWS**

- [Climate change a matter of national security](#)  
13 May 2022, The News International
- [Clean Energy is Key to National Security for European Union and United States](#)  
13 May 2022, Natural Resources Defense Council
- [South Asia's Scorching Heatwave: Another Window Into Our Climate-Insecure Planet](#)  
12 May 2022, Center for Climate & Security
- [PJM releases road map for creating 'grid of the future' to handle coming renewables, storage wave](#)  
12 May 2022, Utility Dive
- [In a World Starved for Lithium, Researchers Develop a Method to Get It from Water](#)  
12 May 2022, Inside Climate News
- [The climate security agenda is more about strengthening military power than tackling climate instability](#)  
12 May 2022, Transnational Institute

- [What Impact Will Climate Change Have on the Security Industry? \(Part One\)](#)  
12 May 2022, Infogrid
- ['Matter of national security': UK's plan to slash Russia energy ties and 'keep home warm'](#)  
10 May 2022, Express
- [Biden's order requires report on nature-based solutions](#)  
9 May 2022, Coastal Review
- [Why Climate Change Will Exacerbate Inequalities and Grievances in Iraq](#)  
9 May 2022, New Security Beat
- [Electricity Shortage Warnings Grow Across U.S.](#)  
8 May 2022, The Wall Street Journal
- [Fighting climate change in a fragmented world](#)  
7 May 2022, The Hill
- [Climate Security Next Steps for the U.S. Government](#)  
6 May 2022, Lawfare
- [How the Military Works With Local Communities to Combat Climate Change](#)  
6 May 2022, Pew Release
- [Politics Could Speed Up Clean Energy. They May Also Slow It Down.](#)  
6 May 2022, The Wall Street Journal
- [Colombia can lead the energy transition in Latin America](#)  
6 May 2022, Atlantic Council
- [Wildfire, water and climate change: Protecting communities and supporting ecosystem resilience](#)  
5 May 2022, Los Alamos National Laboratory

#### REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Article:** [Reinvigorating the Pacific Pivot: Climate Change and Soft Power](#)  
U.S Naval Institute, May 2022
- **Article:** [A multidisciplinary approach to considering the Earth's changing systems](#)  
Penn Today, 11 May 2022
- **Video:** [Climate Crisis, Security and Development](#)  
Planetary Security Initiative, 21 April 2022
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)  
NPS Department of Oceanography, 1 May 2022
- **Report:** [April Climate Assessment](#)  
NOAA National Centers for Environmental Information, May 2022

#### EVENTS

- [Climate Change: Causes, Effects and Solutions](#)  
6-part Lecture Series, featuring Mike Clancy  
Wednesdays through 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual  
Wave Street Live  
**May 18 Topic:** Climate Models and Climate Prediction
- [Climate Change Impacts on National Security in South Florida](#)  
16 May 2022 / 2:00 – 3:30 pm ET / Miami  
American Security Project / Florida International University
- **[NEW]** [Living with Climate Change: Sea Level Rise](#)  
18 May 2022 / 1 – 2:30 ET / 10 – 11:30 / Webinar  
Environmental and Energy Studies Institute
- **[NEW]** [Addressing climate change in US defense strategy and budget](#)  
19 May 2022 / 3 – 4:30 ET / 12 – 1:30 PT / Virtual  
Brookings
- [Climate Leadership Conference](#)  
24-26 May / Washington DC  
Center for Climate and Energy Solutions / The Climate Registry
- **[NEW]** [Direct Air Capture Briefing](#)  
25 May 2022 / 3:30 – 5:00 ET / 12:30 – 3:00 / Webinar  
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25 May 2022 / 1200 ET / 0900 PT / Virtual  
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- [Climate Change: The Rising Costs to Our Military and Coastal Communities](#)  
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NOAA Fisheries is soliciting input on its draft Climate Regional Action Plans to address climate-science needs in each region over the next three years. **Comments due 2 June 2022.**

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FOA (N00014-22-S-F002) - Topic 12, Climate Change Risk and Decision Superiority  
**White papers due 16 May 2022; proposals accepted through 9 September 2022.**

Dear CSN Members,

I'm delighted to share the shiny new CSN logo, developed by Jake Wigal of the Center for Infrastructure Defense. We appreciate everyone who contributed, especially Jake and the Planning Team.

Below is your weekly collection of updates from the last week in the climate and security world. The special section on Ukraine includes articles regarding the application to NATO by Sweden and Finland and potential ramifications.

Also, I want to highlight an article written by CSN Member Marc Kodack:

- [\*\*A Threat to Ecological Security from Inter-Species Viral Distributions Driven by Climate Change\*\*](#)  
17 May 2022, Center for Climate & Security, *written by CSN Member Marc Kodack*

Thanks, Marc, for all of your contributions! Hope everyone has a good weekend,

Kristen

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[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 20 May 2022**

### **Special Section: Ukraine**

- NBC News: [\*\*How Putin's war in Ukraine backfired and fueled NATO's Nordic expansion\*\*](#)
- Chicago Tribune: [\*\*Finland and Sweden in NATO will further isolate Russia\*\*](#)
- The National Interest: [\*\*NATO's Nordic Expansion Will Shake Up the Arctic\*\*](#)
- France 24: [\*\*Finland's leaders back joining NATO in policy shift triggered by Ukraine war\*\*](#)
- NPR: [\*\*Russia may become the only non-NATO nation in the Arctic, sparking fears of conflict\*\*](#)
- Centre for Research on Energy and Clean Air: [\*\*Financing Putin's war on Europe: Fossil fuel imports from Russian during the invasion of Ukraine\*\*](#)
- Ecoaction: [\*\*Principles of the Green Post-war Reconstruction of Ukraine\*\*](#)
- Axios: [\*\*21 federal agencies monitoring Ukraine war's environmental toll\*\*](#)
- AlJazeera: [\*\*Can Ukraine hold Russia accountable for environmental crimes?\*\*](#)
- Mongabay: [\*\*Amid war, Ukrainians are tracking Russia's crimes against the environment\*\*](#)
- The Atlantic: [\*\*Ukraine's Way Out\*\*](#)

### **NEWS**

- [\*\*How plastic is fueling a hidden climate crisis in Southeast Asia\*\*](#)  
19 May 2022, New Security Beat
- [\*\*Recycling critical minerals is an underappreciated national security tool\*\*](#)

19 May 2022, The Hill

- [\*\*The Energy Crisis Won't Sabotage Climate Goals\*\*](#)  
19 May 2022, Foreign Policy
- [\*\*An Effective Climate and Energy Security "Grand Bargain" is Within Reach\*\*](#)  
18 May 2022, U.S. Chamber of Commerce
- [\*\*UN Launches plan to speed up renewables usage as new report shows looming climate disaster\*\*](#)  
18 May 2022, Market Watch
- [\*\*Parris Island shows the intersection of climate and security\*\*](#)  
18 May 2022, The Gazette
- [\*\*Climate lessons from faltering Texas power grid\*\*](#)  
18 May 2022, The Hill
- [\*\*'Alarming' Climate Records in 2021 Prompt UN Call To Triple Renewable Energy Investment To \\$4 Trillion\*\*](#)  
18 May 2022, Forbes
- [\*\*'Lifeline' of renewable energy can steer world out of climate crisis: UN Chief\*\*](#)  
18 May 2022, UN Release
- [\*\*UN Chief says the global energy system is 'broken' and warns of 'climate catastrophe'\*\*](#)  
18 May 2022, Interesting Engineering
- [\*\*Meet FERC: One of the Biggest climate Players You've \(Probably\) Never Heard of\*\*](#)  
17 May 2022, Natural Resources Defense Council
- [\*\*Serious about Climate Change? Put All Options on the Table\*\*](#)  
17 May 2022, New Security Beat
- [\*\*Program combines Conservation, Education\*\*](#)  
16 May 2022, DoD Release
- [\*\*California just ran on 100% renewable energy, but fossil fuels aren't fading away yet\*\*](#)  
13 May 2022, NPR
- [\*\*Menaced by flames, nuclear lab peers into future of wildfire\*\*](#)  
13 May 2022, AP News
- [\*\*Water Management in Armed Conflict: Improving Collaboration and Joint Knowledge\*\*](#)  
13 May 2022, New Security Beat
- [\*\*ERDC researchers investigate how climate change impacts permafrost\*\*](#)  
10 May 2022, U.S. Army Corps of Engineers Release
- [\*\*Stanford University launches research initiative on hydrogen as a climate solution\*\*](#)  
6 May 2022, Stanford News Release

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Article:** [Moving towards security: preparing NATO for climate-related migration](#)  
NATO Review, 19 May 2022
- **Report:** [The Nature of Conflict and Peace: The links between environment, security and peace and their importance for the United Nations](#)  
adelphi and World Wildlife Fund, May 2022
- **Report:** [Reliably Reaching California's Clean Energy Targets](#)  
Tellos Energy and GridLab, May 2022
- **Article:** [Estimating the economic impacts of improved wind speed forecasts in the United States electricity sector](#)  
Journal of Renewable and Sustainable Energy, 17 May 2022
- **Proceedings:** [Federal Environmental Symposium Proceedings](#)  
2022 Federal Environmental Symposium (multiple agencies), May 2022
- **Report:** [The Future of Energy Storage](#)  
MIT Energy Initiative, May 2022

## EVENTS

- [Climate Change: Causes, Effects and Solutions](#)  
6-part Lecture Series, featuring Mike Clancy  
Wednesdays through 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual  
Wave Street Live  
**May 25 Topic:** Technologies and Practices for Halting Climate Change, Part 1
- [Direct Air Capture Briefing](#)  
25 May 2022 / 3:30 – 5:00 ET / 12:30 – 3:00 / Webinar  
Environmental and Energy Studies Institute
- [rEVolution: The Future of Electric Vehicles \(EVs\) and the Military](#)  
25 May 2022 / 1200 ET / 0900 PT / Virtual  
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- [Climate Change: The Rising Costs to Our Military and Coastal Communities](#)  
26 May 2022 / 1630 – 1830 ET / Norfolk, VA  
American Security Project / E2
- [Water in the MENA region – victim & casualty rather than source of conflict](#)  
31 May 2022 / 1600 – 1730 BST / 0800 – 0930 PST / Virtual  
Kings College London / School of Global Affairs
- **[NEW]** [Hazard Mitigation and Resilience Applied Research Topics – Compounding and Cascading Events](#)  
31 May 2022 / 11:00 am – 6:00 pm ET / 8:00 am – 3:00 pm PT  
National Academies of Sciences, Engineering and Medicine
- **[NEW]** [2<sup>nd</sup> Annual Sustainability Week US](#)  
6-9 June 2022 / Washington DC / Virtual

The Economist

- [Living with Climate Change: Wildfires](#)  
13 June 2022 / 1:00 – 2:30 ET / 10:00 – 11:30 PT / Webinar  
Environmental and Energy Studies Institute
- [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment
- [National Adaptation Forum](#)  
25 - 27 October 2022 / Baltimore, MD  
EcoAdapt

## OPPORTUNITIES

- [\[NEW\] NASEM Call for Technical Input: Development of a Framework for Evaluating Global Greenhouse Gas Emissions Information for Decision Making](#)  
This fast-track consensus study will develop a framework for evaluating global anthropogenic greenhouse gas (GHG) information to support decision making. This study is being conducted on an accelerated timeline to inform COP27 discussions in November 2022. **Inputs due 2 June 2, 2022.**
- [\[NEW\] NASEM Call for Nominations: Workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System](#)  
The National Academies of Sciences, Engineering, and Medicine seeks expert nominations for committee members to organize a workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System. Nominees should have expertise in natural, physical, social, and behavioral sciences, including such disciplines as climate science, oceanography, environmental science, economics, engineering, computer modeling and data science, decision support, sociology, anthropology, and risk management. **Nominations due 3 June 2022.**
- [NOAA Fisheries Invites Public Comment on Draft Climate Regional Action Plans](#)  
NOAA Fisheries is soliciting input on its draft Climate Regional Action Plans to address climate-science needs in each region over the next three years. **Comments due 2 June 2022.**
- [Request for Comment: Statement of Principles for Climate-Related Financial Risk Management for Large Financial institutions](#)  
The Federal Deposit Insurance Corporation (FDIC) is requesting comment on draft principles to provide a high-level framework for safe and sound management of exposures to climate-related financial risks. **Comments due 3 June 2022.**

## 25 May 2022 (Strategy Update)

Dear Colleagues,

As a follow-up to this morning's email about the release of the Navy Climate Strategy, I want to add some details, perspectives and additional resources below.

There are five LOEs (lines of effort) within the DON Climate Strategy which mirror the lines of effort in the DoD Climate Action Plan:

- LOE 1: Climate-Informed Decision-Making
- LOE 2: Train and Equip for Climate Resilience
- LOE 3: Resilient Built and Natural Infrastructure
- LOE 4: Supply Chain Resilience and Innovation
- LOE 5: Enhanced Mitigation and Adaptation through Collaboration

The release of the Strategy kicks off a period of implementation planning. Each of the LOEs will have 90 days to develop an implementation plan for their LOE for the key initiatives that they have identified. It is anticipated that the implementation planning period will run through early September.

This also triggers the planning of 2 upcoming CSN events including a briefing of the Strategy by DoN leads and a presentation on ONR climate related research put into context by the Strategy LOEs. Stay tuned for the scheduling of those virtual events. We'll do our best to record those for those who are unable to attend.

A sincere thanks to those of you from the CSN who contributed to the Strategy and who have agreed to serve on the LOE Teams representing the diverse efforts moving forward within the Navy.

Kristen

### **DoN Climate Strategy:** [Climate Action 2030](#)

(if you have trouble, you may also access it at a third party site [here](#).)

### **Perspectives on the plan:**

Navy Release: [Department of the Navy Releases Climate Action 2030](#)

Defense One: [Navy Climate Strategy Lacks Specifics for Reducing Largest Emissions Producers](#)

CNBC: [U.S. Navy climate plan calls to curb emissions, electrify vehicle fleet](#)

Reuters: [U.S. Navy climate plan aims to cut emissions, move to low carbon fuels](#)

Federal News Network: [Navy cutting back emissions, moving toward green vehicles in coming years](#)

Breaking Defense: [Navy Brass put forward climate plan, citing threats to Parris Island, San Diego bases](#)

### **Related Resources:**

- [Navy: Strategic Blueprint for the Arctic \(2021\)](#)
- [DoD Climate Adaptation Plan \(Sept 2021\)](#)
- [US Army Climate Strategy \(Feb 2022\)](#)

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine and several items on this week's release of the Navy climate strategy, *Climate Action 2030*.

Also, a special congratulations to CSN Member and National Security Affairs Professor **Dr. Emily Meierding** who received the Lieutenant Commander David L. Williams Outstanding Professor Award this week. Dr. Meierding also is a member of the CSN Planning Team. Congratulations, Emily and thank you for your contributions to the CSN!

In addition, the Distinguished Professor Kenneth J. Euske Dean's Medal for Innovative Contribution to National Defense, Department of Defense Management was awarded to **Captain Benjamin Cohen, USMC and Captain John Schmaltz, USMC**. You can see their CSN Net Zero briefing on Hybrid Airships (March 2022) [here](#). Congratulations, Ben and John!

Have a good weekend,

Kristen

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Faculty Associate-Research / Naval Postgraduate School  
[Energy Academic Group](#) / [Climate & Security Network](#)  
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[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 27 May 2022**

### **Special Section: Ukraine**

- New Security Beat: [The Ukraine War's Shadow on China's Road to Decarbonization](#)
- Defense One: [What Russia's Invasion of Ukraine Means for the Middle East](#)
- Inside Climate News: [As the Ukraine War Wages, Western Nations Face a Climate Crossroad](#)
- CNBC: [The Ukraine war has upended the energy transition – and it's not good news for the planet](#)
- Business Standard: [WEF 2022: Ukraine conflict to climate change, here's what happened at Davos](#)
- Euronews: [G7 countries fight to keep climate goals on track as Ukraine war threatens energy supplies](#)
- The Nation: [We Need International Cooperation to Fight Climate Change, Not War](#)
- Climate Home News: [Russian climate action and research is collateral damage in Putin's war on Ukraine](#)
- DNA India: [Climate change, Russia-Ukraine war leading to wheat deficiency in India, the possible solutions](#)

### **NEWS**

- [Key senator eyes clean energy provisions in defense authorization bill](#)  
26 May 2022, Defense News
- [Can solar panels in space power the race to net zero?](#)

26 May 2022, Energy Monitor

- [Next step for AFRL's space-based solar power quest: energy beaming](#)  
26 May 2022, Breaking Defense
- **[Climate Strategy]** [An Invisible Enemy: Navy Sees Climate Change as National Security Threat](#)  
25 May 2022, The National Interest
- **[Climate Strategy]** [US Navy Launches Climate Plan](#)  
25 May 2022, Future Net Zero
- **[Climate Strategy]** [Navy unveils climate action strategy but glosses over carbon emissions from ships and planes](#)  
25 May 2022, Stars and Stripes
- **[Climate Strategy]** [US Navy unveils new action plan to tackle global climate crisis](#)  
25 May 2022, Naval Today
- [MCLB Albany First in DOD to Achieve Net Zero Energy Milestone](#)  
25 May 2022, U.S. Marine Corps Release
- [Before breaking ground: Challenges and opportunities for Mexican lithium](#)  
25 May 2022, New Security Beat
- [MCLB Albany first military installation to achieve net-zero energy status](#)  
24 May 2022, Albany Herald
- [Is Parris Island doomed? Some say yes as waters rise, but the Marines fight to defend it](#)  
24 May 2022, The State (SC)
- [National Guard Breaks Ground on Los Alamitos Solar Microgram, Doubling Down on Environmental Sustainability](#)  
23 May 2022, Daily Pilot (LA Times)
- [Defense Officials Examine Climate Change Effects](#)  
23 May 2022, DoD Release
- [Can Law Prevent the Green Recourse Curse in Sub-Saharan Africa?](#)  
23 May 2022, New Security Beat
- [The Irish Defence Forces in a Changing Climate: Implications and Suggestions for Preparedness, Adaptation and Mitigation Measures](#)  
23 May 2022, Planetary Security Initiative
- [Defense Officials Examine Climate Change Effects](#)  
22 May 2022, DoD Release
- [Can Philanthropists help fuel a global clean energy transition?](#)  
20 May 2022, The Washington Post



## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [WMO State of Global Climate Report 2021](#)  
World Meteorological Organization, 18 May 2022
- **Report:** [NOAA Annual Greenhouse Gas Index](#)  
National Oceanic and Atmospheric Administration, Spring 2022
- **Article:** [Climate Change and the Military: Examining the Pentagon's Integration of National Security Interests and Environmental Goals under Clinton](#)  
National Security Archives, 26 May 2022
- **Web Resource:** [Climate Solutions Map by State](#)  
Environmental and Energy Studies Institute, May 2022
- **Guidance:** [GSA Green Building Advisory Committee Advice Letter from the Federal Building Decarbonization Task Group](#)  
U.S. General Services Administration, 23 May 2022
- **Videos:** Mike Clancy Climate Change Lecture Series  
Wave Street Studios, May 2022
  - [Lecture 1: Paleoclimate, the Ice Age Cycle, Post-Industrial Global Warming, Climate Change Impacts](#)
  - [Lecture 2: Climate Forcing, the Greenhouse Effect, Feedback Loops and Tipping Points, Greenhouse Gases](#)
  - [Lecture 3: Climate Models and Climate Prediction](#)

## EVENTS

- [Climate Change: Causes, Effects and Solutions](#)  
6-part Lecture Series, featuring Mike Clancy  
Wednesdays through 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual  
Wave Street Live  
**June 1 Topic:** Technologies and Practices for Halting Climate Change, Part 2  
**June 8 Topic:** Climate Change Denial, International Organizations and Agreements, U.S. Legislation, Future Policy Challenges
- [Water in the MENA region – victim & casualty rather than source of conflict](#)  
31 May 2022 / 1600 – 1730 BST / 0800 – 0930 PST / Virtual  
Kings College London / School of Global Affairs
- [Hazard Mitigation and Resilience Applied Research Topics – Compounding and Cascading Events](#)  
31 May 2022 / 11:00 am – 6:00 pm ET / 8:00 am – 3:00 pm PT  
National Academies of Sciences, Engineering and Medicine
- **[NEW]** [BOEM California Intergovernmental Renewable Energy Task Force Meeting](#)  
3 June 2022 / 0900 – 1300 PT / Virtual  
Bureau of Ocean Energy Management
- **[NEW]** [Public Responses to Large-scale, Net-zero Infrastructure: Research Perspectives](#)  
6 June 2022 / Noon – 2 pm ET / 9 – 11 am PT

National Academies of Sciences, Engineering, and Medicine

- [2<sup>nd</sup> Annual Sustainability Week US](#)  
6-9 June 2022 / Washington DC / Virtual  
The Economist
- [Living with Climate Change: Wildfires](#)  
13 June 2022 / 1:00 – 2:30 pm ET / 10:00 – 11:30 am PT / Webinar  
Environmental and Energy Studies Institute
- [\[NEW\] Technology for Net-Zero Carbon Buildings](#)  
14 June 2022 / 12:00 – 1:00 pm ET / 9:00 – 10:00 am PT / Webinar  
GSA Center for Emerging Building Technologies
- [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment
- [National Adaptation Forum](#)  
25 - 27 October 2022 / Baltimore, MD  
EcoAdapt

## OPPORTUNITIES

- [\[NEW\] Call For Proposals: Operational Energy Capability Improvement Fund \(OECIF\) and Operational Energy Prototyping Fund \(OEPF\)](#)  
The U.S. Office of the Secretary of Defense is soliciting proposals that support three operational energy strategy areas—*Powering the Force*, *Electrifying the Battlespace*, and *Commanding Energy* — in three topical areas: (1) "Advanced Technology Development Relevant, Aviation and Space Efficiencies; (2) Contested Logistics; and (3) Vehicle Electrification and Hybridization. Topic area 3 includes “hybrid vehicles, industry trends highlight transitioning from the production of internal combustion engines to the development and production of alternative propulsion systems to improve climate impacts, energy use/costs, and sustainability.” **Due dates vary but generally 1 - 4 August 2022.**
- [NASEM Call for Technical Input: Development of a Framework for Evaluating Global Greenhouse Gas Emissions Information for Decision Making](#)  
This fast-track consensus study will develop a framework for evaluating global anthropogenic greenhouse gas (GHG) information to support decision making. This study is being conducted on an accelerated timeline to inform COP27 discussions in November 2022. **Inputs due 2 June 2, 2022.**
- [NASEM Call for Nominations: Workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System](#)  
The National Academies of Sciences, Engineering, and Medicine seeks expert nominations for committee members to organize a workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System. Nominees should have expertise in natural, physical, social, and behavioral sciences, including such disciplines as climate science, oceanography, environmental science, economics, engineering, computer modeling and data science,

decision support, sociology, anthropology, and risk management. **Nominations due 3 June 2022.**

- [\*\*NOAA Fisheries Invites Public Comment on Draft Climate Regional Action Plans\*\*](#)  
NOAA Fisheries is soliciting input on its draft Climate Regional Action Plans to address climate-science needs in each region over the next three years. **Comments due 2 June 2022.**
- [\*\*Request for Comment: Statement of Principles for Climate-Related Financial Risk Management for Large Financial institutions\*\*](#)  
The Federal Deposit Insurance Corporation (FDIC) is requesting comment on draft principles to provide a high-level framework for safe and sound management of exposures to climate-related financial risks. **Comments due 3 June 2022.**

Dear CSN Members,

Here is your weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine and some additional new items on last week's release of the Navy climate strategy, *Climate Action 2030*.

Have a good weekend,

Kristen

Kristen M Fletcher  
Faculty Associate-Research | Naval Postgraduate School  
[Energy Academic Group](#) | [Climate & Security Network](#)  
Office: 831.920.1090 | Cell: 401.714.4686  
[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 3 June 2022**

### **Special Section: Ukraine**

- Reuters: [EU agrees Russia oil embargo, gives Hungary exemptions; Zelenskiy vows more sanctions](#)
- ABC News: [UN chief worries Ukraine war overshadowing climate fight](#)
- Atlantic Council: [Obscured by the energy crisis, a food crisis unfolds](#)
- Al Jazeera: [Putin, African Union head meet Friday to discuss food crisis](#)
- Democracy Now: [Climate Crisis, Ukraine War Worsen Food Crisis in East Africa](#)
- Reuters: [Ukraine war, pandemic set to speed Europe's green energy](#)
- Vox: [The pollution from Russia's war will poison Ukraine for decades](#)
- Euronews: [The war in Ukraine has devastating global consequences for water, peace and security](#)
- U.S. Dept of Agriculture: [Ukraine Situation](#) (compiled resources)
- U.S. Department of State: **Interagency Working Group on Environmental Damage in Ukraine** (see Opportunities section below)

### **NEWS**

- [New U.S. Navy Climate Strategy Sets High-Level Goals](#)  
2 June 2022, Center for Climate & Security
- [4 reasons why CISOs can't ignore climate change](#)  
2 June 2022, CSO Online
- [Scientists develop environmental justice lens to identify neighborhoods vulnerable to climate change](#)  
2 June 2022, Phys.Org
- [Stop looking to the extremes for climate policy](#)  
2 June 2022, The Hill
- [Biden Navy Secretary Says Climate Change is the "Focal Point" of His Tenure](#)  
2 June 2022, The Paradise

- [America's Mineral and Metal Insecurity is a National Security Threat. It doesn't have to be.](#)  
2 June 2022, Forbes
- [Expert report on national security lacks urgency, offers conflicting yet vague advice](#)  
2 June 2022, The Hill Times
- [Biden administration slashes rent by 50% on US public land for wind and solar](#)  
2 June 2022, Electrek
- [Department of the Interior Announces Steps to Increase Clean Energy Development on Public Lands](#)  
1 June 2022, U.S. Department of the Interior Release
- [Harris Unveils White House plan to address global water security](#)  
1 June 2022, CNN
- [US Plummets in climate progress ranking](#)  
1 June 2022, The Hill
- [US Navy aims for 100% carbon-free electricity by 2030](#)  
31 May 2022, PV Magazine
- [G7 countries to stop funding fossil fuel development overseas](#)  
30 May 2022, The Guardian
- [China and Pacific islands unable to reach consensus on security pact](#)  
30 May 2022, CNBC
- [NASA to reexamine space-based solar power](#)  
28 May 2022, Space News
- [Optimize rising renewables levels by increasing deployment of different types of energy storage: MIT](#)  
27 May 2022, Utility Dive
- [Biden-Harris Administration Proposes First-Ever California Offshore Wind Lease Sale](#)  
26 May 2022, Department of the Interior Release
- [NATO Climate Change and Security Centre of Excellence](#)  
20 May 2022, NATO Release

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Plan:** [White House Action Plan on Global Water Security](#)  
White House, June 2022  
**Related Resource:** [Deputy Secretary of Defense Dr. Kathleen Hicks' Remarks at the White House Global Water Security Action Plan Rollout Event](#)  
White House, 1 June 2022
- **Fact Sheet:** [Biden-Harris Administration Launches Initiative to Modernize Building Codes, Improve Climate Resilience, and Reduce Energy Costs](#)

White House Release, 1 June 2022

- **Report:** [Drought Resilience Interagency Working Group 1-Year Summary Report](#)  
White House, June 2022
- **Article:** [On the relationship of armed conflicts with climate change](#)  
PLOS Climate, 1 June 2022
- **Report:** [A Global Sustainability Program: Lessons from the Marshall Plan for addressing climate change](#)  
Center for Sustainable Development at Brookings, May 2022
- **Report:** [Africa Orientation Course Proceedings](#)  
IC Environmental Security Working Group, May 2022 (note: account required)
- **Report:** [Scenarios-Based Analysis for the Levant: Adaptive Technologies for Regional Climate-Related Security Risks](#)  
Center for Climate & Security, adelphi, May 2022
- **Webinar Video:** [Addressing climate change in US defense strategy and budget](#)  
Brookings, 19 May 2022
- **Webinar Video:** [Energy security and oil sanctions: A transatlantic balancing act?](#)  
Atlantic Council, 31 May 2022

## EVENTS

- [Climate Change: Causes, Effects and Solutions](#)  
6-part Lecture Series, featuring Mike Clancy  
Wednesdays through 8 June 2022 / 2:30 – 3:30 pm PT / Monterey, CA or Virtual  
Wave Street Live  
**June 8 Topic:** Climate Change Denial, International Organizations and Agreements, U.S. Legislation, Future Policy Challenges
- [Public Responses to Large-scale, Net-zero Infrastructure: Research Perspectives](#)  
6 June 2022 / Noon – 2 pm ET / 9 – 11 am PT  
National Academies of Sciences, Engineering, and Medicine
- **[NEW]** [2022 World Climate and Security Report Launch](#)  
7 June 2022 / 11:00 am ET / 8:00 am PT / Virtual  
International Military Council on Climate Security
- [2<sup>nd</sup> Annual Sustainability Week US](#)  
6-9 June 2022 / Washington DC / Virtual  
The Economist
- **[NEW]** [Come Together: Interconnection of Solar, Wind and Energy Storage](#)  
7 June 2022 / Webinar  
Environmental and Energy Studies Institute
- **[NEW]** [Hearing: Turning the Tide for Ocean Climate Action: Unleashing the Climate Benefits of Our Blue Planet](#)

- 9 June 2022 / Washington DC and Virtual  
House Select Committee on the Climate Crisis
- [Living with Climate Change: Wildfires](#)  
13 June 2022 / 1:00 – 2:30 pm ET / 10:00 – 11:30 am PT / Webinar  
Environmental and Energy Studies Institute
  - [7th Annual Central and Eastern European Energy Security Conference](#)  
14 June 2022 / 9:30 am - 6:00 pm ET / 6:30 am – 3:00 pm PT / Washington, D.C. / Virtual  
Atlantic Council
  - [Technology for Net-Zero Carbon Buildings](#)  
14 June 2022 / 12:00 – 1:00 pm ET / 9:00 – 10:00 am PT / Webinar  
GSA Center for Emerging Building Technologies
  - [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)  
21 – 24 June 2022 / Virtual  
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  - **[NEW]** [Advanced technology to accelerate zero-emission medium- and heavy-duty vehicle deployment](#)  
23 June 2022 / 10:00 am ET / 7:00 am PT / Virtual  
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  - **[NEW]** [2022 Veterans Advanced Energy Summit](#)  
8-9 August 2022 / Chicago, IL  
Atlantic Council Global Energy Center
  - **[NEW]** [2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability](#)  
21-22 September 2022 / Virtual / Hybrid  
IC Environmental Security Working Group & Partners  
*Co-hosted by NPS / Details forthcoming*
  - [National Adaptation Forum](#)  
25 - 27 October 2022 / Baltimore, MD  
EcoAdapt

## OPPORTUNITIES

- **[NEW]** [Call for Nominations: Review Editors for the Fifth National Climate Assessment](#)  
USGCRP is seeking nominations for Review Editors for the Fifth National Climate Assessment (NCA5). The Review Editor plays a critical role on the assessment, ensuring that the author teams appropriately consider and respond to all public and peer review comments. Review Editor nominees should be technical experts with climate-related proficiency in at least one of the regions, sectors, or response topics outlined in the [NCA5 Table of Contents](#). **Nominations due 1 July 2022.**
- **[NEW]** [Interagency Working Group on Environmental Damage in Ukraine](#)

***USG Employees Only:*** The State Department-led working group on mitigating environmental damage in Ukraine focuses on coordinating interagency resources and capabilities to mitigate environmental damage in Ukraine as a result of the Russian invasion. Sub-working groups include Ecosystems and Damage/Waste. Groups meet every other week. To join the group or learn more, please contact Allie Davis at [DavisAL3@state.gov](mailto:DavisAL3@state.gov).

- **[Call For Proposals: Operational Energy Capability Improvement Fund \(OECIF\) and Operational Energy Prototyping Fund \(OEPF\)](#)**

The U.S. Office of the Secretary of Defense is soliciting proposals that support three operational energy strategy areas—*Powering the Force*, *Electrifying the Battlespace*, and *Commanding Energy* — in three topical areas: (1) "Advanced Technology Development Relevant, Aviation and Space Efficiencies; (2) Contested Logistics; and (3) Vehicle Electrification and Hybridization. Topic area 3 includes "hybrid vehicles, industry trends highlight transitioning from the production of internal combustion engines to the development and production of alternative propulsion systems to improve climate impacts, energy use/costs, and sustainability." **Due dates vary but generally 1 - 4 August 2022.**

- **[Call for Public Comment on the Draft U.S. Global Change Research Program \(USGCRP\) Decadal Strategic Plan, 2022 – 2031](#)**

The U.S. Global Change Research Program (USGCRP), in collaboration with the Office of Science and Technology Policy (OSTP), requests comment from the public on its draft Decadal Strategic Plan. The U.S. Global Change Research Program (USGCRP) coordinates research across 13 Federal agencies to understand the human-induced and natural processes that influence the total Earth system—the atmosphere, land, water, ecosystems, and people. **Comments due 15 July 2022.**



Dear CSN Members,

Here is a quite hearty weekly collection of updates from the last week in the climate and security world, including a special section on Ukraine.

Have a good weekend,

Kristen

Kristen M Fletcher  
Faculty Associate-Research | Naval Postgraduate School  
[Energy Academic Group](#) | [Climate & Security Network](#)  
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[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 10 June 2022**

### **Special Section: Ukraine**

- BBC: [Climate Change: Ukraine war prompts fossil fuel 'gold rush'](#)
- France 24: [Climate talks start in Bonn as Ukraine war overshadows threat of global warming](#)
- The Guardian: [The Black Sea blockade: mapping the impact of war in Ukraine on the world's food supply](#)
- Foreign Policy: [Russia's War is the End of Climate Policy as We Know It](#)
- Bloomberg Law: [Ukraine Migration Maps 'What's Possible' for Climate Displaced](#)
- DW: [5 ways the Ukraine war has changed the world](#)
- Wall Street Journal: [Ukraine War Drives Europe to Accelerate Energy Efficiency](#)
- Reuters: [Inflation and war loom over EU votes on climate change policy](#)
- The Diplomat: [The Russia-Ukraine Conflict: Implications for Kazakhstan's Energy Sector](#)

### **NEWS**

- [French military eyes tech solutions to deal with climate change](#)  
10 June 2022, Defense News
- [Vice President Harris Launches the U.S.-Caribbean Partnership to Address the Climate Crisis 2030 \(PACC 2030\)](#)  
9 June 2022, White House Fact Sheet
- [Solid-State Batteries for EVs Make a Leap Toward Mass Production](#)  
9 June 2022, Inside Climate News
- [Climate Change is a US Navy Problem](#)  
9 June 2022, Bloomberg
- [Congress moves to establish electric vehicle program for Defense Department](#)  
9 June 2022, Defense News
- [Pentagon chooses design for 'Project Pele' portable nuclear reactor prototype](#)  
9 June 2022, C4IRSNet

- [\*\*Biden-Harris Administration Takes Key Step Forward in Building a National Network of User-Friendly, Reliable and Accessible Electric Vehicle Chargers\*\*](#)  
9 June 2022, U.S. Department of Transportation Release
- [\*\*Climate Change is a Military Problem for the U.S.\*\*](#)  
8 June 2022, The Washington Post
- [\*\*Scientists Say They've Created a Roadmap for Cutting US Emissions in Half by 2030\*\*](#)  
7 June 2022, Inside Climate News
- [\*\*Renewables and Energy Transitions in Small Island States\*\*](#)  
8 June 2022, International Institute for Sustainable Development
- [\*\*China plans to start building first-ever solar power plant in space by 2028\*\*](#)  
7 June 2022, South China Morning Post
- [\*\*Bonn climate conference: World is "cooked" if we carry on with coal, US says\*\*](#)  
6 June 2022, BBC
- [\*\*Drought in Chile Has Left the Country with a National Security Issue\*\*](#)  
6 June 2022, One Green Planet
- [\*\*Extended weather forecasts could aid power grid stability, renewables\*\*](#)  
6 June 2022, The Washington Post
- [\*\*Biden moves to ease trade turmoil threatening his solar energy ambitions\*\*](#)  
6 June 2022, Politico
- [\*\*Experts for including environmental security in national security policy\*\*](#)  
6 June 2022, Daily Times
- [\*\*Domestic Supply Chains for Rare Earth Minerals\*\*](#)  
6 June 2022, American Security Project
- [\*\*The Navy needs to keep a weather eye in its climate action plan\*\*](#)  
5 June 2022, The Hill
- [\*\*Inside Clean Energy: The US's New Record in Renewables, Explained in Three Charts\*\*](#)  
2 June 2022, Inside Climate News
- [\*\*BMW's Long and Winding Road to Cut Gas From Carmaking\*\*](#)  
2 June 2022, Bloomberg
- [\*\*Powering Electric Cars: the Race to Mine Lithium in America's Backyard\*\*](#)  
31 May 2022, Inside Climate News
- [\*\*Stanford-led research finds small modular reactors will exacerbate challenges of highly radioactive nuclear waste\*\*](#)  
30 May 2022, Stanford News / *see article link below*
- [\*\*What Impact Will Climate Change Have on the Security Industry? Part Two\*\*](#)  
26 May 2022, FM.com / [Read Part One](#)

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Decarbonized Defense: The Need for Clean Military Power in the Age of Climate Change](#)  
International Military Council on Climate and Security, June 2022
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)  
NPS Department of Oceanography, 1 June 2022
- **Report:** [Building Alliances for Climate Action](#)  
FEMA, NASA, June 2022
- **Podcast:** [Disrupted Energy Markets: Fossil Revival or Renewable Opportunity?](#)  
Climate One, June 2022
- **Report:** [Global reaction to energy crisis risks zero carbon transition: Analysis of government responses to Russia's invasion of Ukraine](#)  
Climate Action Tracker, June 2022
- **Presidential Determination:** [Memorandum on Presidential Determination Pursuant to Section 303 of the Defense Production Act of 1950, as amended, on Electric Heat Pumps](#)  
White House, 6 June 2022
- **Article:** [Floating solar power could help fight climate change – let's get it right](#)  
Nature, 7 June 2022
- **Resources:** [Read, Watch, Listen: CCS Across the Web](#)  
Center for Climate and Security, 9 June 2022
- **Video:** [The Fight Against Illicit Fishing: A Conversation with Assistant Secretary of State Monica Medina](#)  
American Security Project, 7 June 2022
- **Article:** [Nuclear waste from small modular reactors](#)  
Proceedings of the National Academy of Sciences, 31 May 2022
- **Article:** [Fighting Climate Change](#)  
Nature, 6 June 2022
- **Journal Special Issue:** [Technology and Methods for Environmental Monitoring of Marine Renewable Energy](#)  
Journal of Marine Science and Engineering, June 2022
- **Article:** [Removing Carbon Dioxide Through Artificial Upwelling and Downwelling: Legal Challenges and Opportunities](#)  
Sabin Center for Climate Change Law, May 2022
- **Newsletter:** [NREL Defense Partnerships Quarterly Newsletter](#)  
National Renewable Energy Laboratory, June 2022

## EVENTS

- [Living with Climate Change: Wildfires](#)  
13 June 2022 / 1:00 – 2:30 pm ET / 10:00 – 11:30 am PT / Webinar  
Environmental and Energy Studies Institute
- [\[NEW\] Climate Security Investments: Changing Plans into Actions](#)  
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Center for Climate and Security
- [\[NEW\] Green Trade – Aligning Policy and Climate Goals](#)  
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GSA Center for Emerging Building Technologies
- [\[NEW\] Earth, Fire, Wind, Water: Climate Considerations in Nevada](#)  
17 June 2022 / 12:30 – 2:00 pm ET / 9:30 – 11:00 am PT / Virtual  
American Security Project
- [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment
- [Advanced technology to accelerate zero-emission medium- and heavy-duty vehicle deployment](#)  
23 June 2022 / 10:00 am ET / 7:00 am PT / Virtual  
Atlantic Council
- [Patti Poppe: Navigating PG&E Through Climate Disruption](#)  
21 July 2022 / 6:00 pm PT / San Francisco & Virtual  
Climate One
- [2022 Veterans Advanced Energy Summit](#)  
8-9 August 2022 / Chicago, IL  
Atlantic Council Global Energy Center
- **2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**  
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25 - 27 October 2022 / Baltimore, MD  
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## OPPORTUNITIES

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The National Academies of Sciences, Engineering and Medicine seeks expert nominations for committee members for a Roundtable on Macroeconomics and Climate-related Risks and Opportunities to improve understanding of how the physical and transition effects of climate change relate to and affect macroeconomic performance, as well as the implications for fiscal, monetary, and financial stability policies. **Nominations due 20 June 2022.**
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Congratulations to CSN member Mike Clancy who recently completed a 6-part lecture series on **Climate Change: Causes, Effects and Solutions**. You may access all 6 videos at [Wave Street Live](#).

Have a good weekend,

Kristen

Kristen M Fletcher  
Faculty Associate-Research | Naval Postgraduate School  
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[kristen.fletcher@nps.edu](mailto:kristen.fletcher@nps.edu)

**NPS Climate & Security Network Weekly Update: 17 June 2022**

### **Special Section: Ukraine**

- Bloomberg: [War-Torn Ukraine Looks to Europe's Green Plans for Reconstruction Ideas](#)
- New York Magazine: [Russia's War in Ukraine is also on the Global Food System](#)
- Financial Times: [War and climate put 49mn people at risk of famine](#)
- Time: [The Ukraine Crisis Shows How Fragile Our Food Systems Are](#)
- S&P Global: [Energy, policy experts float alternative approaches to energy sanctions on Russia](#)
- Yale Environment 360: [How Russia's War is Putting Green Tech Progress in Jeopardy](#)
- Al Jazeera: [UN chief slams 'delusional' fossil fuels dash amid Ukraine war](#)
- Atlantic Council: [How Nordic wind and wealth can wean Europe off Putin's gas](#)
- Inside Climate News: [US Firms Secure 19 Deals to Export Liquefied Natural Gas, Driven in Part by the War in Ukraine](#)
- AP News: [UN report: Ukraine war is increasing suffering of millions](#)
  - UN Report: [Global impact of the war in Ukraine: Billions of people face the greatest cost-of-living crisis in a generation](#)

### **NEWS**

- [The military considers climate change a big threat. Shouldn't we all?](#)  
16 June 2022, The Herald-Times
- [The Defense Department's Missing Seat at the Summit of the Americas](#)  
16 June 2022, National Interest
- [President Biden's commitment to energy security needs certainty on natural gas](#)  
16 June 2022, Utility Dive
- [Chile publishes new framework law on climate change](#)  
16 June 2022, JD Supra
- [DOD Preparing for Climate Change Impacts, Official Says](#)

15 June 2022, DOD Release

- [\*\*Nuclear Is Back on the Table for Green Future\*\*](#)  
15 June 2022, The New York Times
- [\*\*HAV sign deal with Air Nostrum for ten aircraft\*\*](#)  
15 June 2022, Aerospace Manufacturing
- [\*\*Inspired by palm trees, scientists develop hurricane-resilient wind turbines\*\*](#)  
15 June 2022, CU Boulder Today
- [\*\*A Climate Finance Rethink Can Help Those Most Impacted by Climate Change\*\*](#)  
14 June 2022, New Security Beat
- [\*\*The 1977 White House climate memo that should have changed the world\*\*](#)  
14 June 2022, The Guardian
- [\*\*Bradley replacement could be the US Army's first hybrid combat vehicle\*\*](#)  
14 June 2022, Defense News
- [\*\*Window Preventing worst Impacts of Climate Change Closing Fast, Secretary-General Warns Austrian World Summit, Calling Renewables Twenty-First Century's Peace Plan\*\*](#)  
14 June 2022, United Nations Release
- [\*\*Why an energy crisis and \\$5 gas aren't spurring a green revolution\*\*](#)  
14 June 2022, The Washington Post
- [\*\*New Tower in China Brings Us a Step Closer to Space-Based Solar Power\*\*](#)  
14 June 2022, GIZMODO
- [\*\*Climate Change Has FEMA Working Year-Round, Straining Its Workforce\*\*](#)  
14 June 2022, Defense One
- [\*\*Air Force using AI to improve weather models for military planning\*\*](#)  
14 June 2022, C4ISRNET
- [\*\*US Army Tests Floating Solar Waters, US Navy Floats Nature-Based Climate Action\*\*](#)  
13 June 2022, Clean Technica
- [\*\*New Senate bill would speed Pentagon purchase of electric non-tactical vehicles\*\*](#)  
13 June 2022, Breaking Defense *(see bill link in Resources below)*
- [\*\*Extracting Opportunity in the Renewable Energy Transition\*\*](#)  
13 June 2022, New Security Beat
- [\*\*Fiji: Threat of climate change bigger than conflict, says defense minister\*\*](#)  
12 June 2022, DW
- [\*\*How floating solar panels will provide energy to Fort Bragg Special Training site\*\*](#)  
11 June 2022, The Fayetteville Observer

- [Climate crisis is ‘battering our economy’ and driving inflation, new book says](#)  
11 June 2022, The Guardian (*see book link in Resources below*)
- [Why Biden Just Declared Heat Pumps and Solar Panels Essential to National Defense](#)  
11 June 2022, Government Executive
- [A new tool from Google shows how the planet is changing in near real time](#)  
9 June 2022, Fast Company
- [Reckoning with a complex planetary crisis at Stockholm+50](#)  
9 June 2022, Planetary Security Initiative
- [The world ocean is losing its memory under global warming](#)  
8 June 2022, National Science Foundation
- [Organized environmental crime: Why it matters for peace operations](#)  
31 May 2022, Planetary Security Initiative

#### REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Machine Learning and Artificial Intelligence to Advance Earth System Science](#)  
National Academies of Sciences, Engineering and Medicine, June 2022
- **Book:** [Climatenomics](#)  
Bob Keefe, June 2022
- **Paper:** [Exceptional warming over the Barents area](#)  
Scientific Reports, 15 June 2022
- **Post:** [Developing Model Federal Laws to Facilitate Responsible Ocean CDR Research](#)  
Sabin Center for Climate Change Law, 15 June 2022
- **Video:** [Electrified Marines and faster fighter maintenance](#)  
Defense News Weekly, 11 June 2022 / *electrification segment at minute 18:18*
- **Fact Sheet:** [Biden-Harris Administration Celebrates World Ocean Day with Actions to Conserve America’s Deepest Atlantic Canyon, Cut Plastic Pollution, and Create America’s First-Ever Ocean Climate Action Plan](#)  
8 June 2022, White House
- **Article:** [Resilience of U.S. coastal wetlands to accelerating sea level rise](#)  
Environmental Research Communications, 8 June 2022
- **Article:** [Building Alliances for Climate Action: Advancing Climate Action Through Partnerships](#)  
Homeland Security Digital Library, June 2022
- **Report:** [How Regional Federal Reserve Banks Can Contend with Economic Risk from Climate Change](#)  
Natural Resources Defense Council, June 2022



- **Report:** [May 2022 Global Climate Report](#)  
NOAA's National Centers for Environmental Information, June 2022
- **Resource:** [Population Dynamics and Climate Implications in the Arctic](#)  
Working Group on World Wide Human Geography Data, June 2022 / (*account required*)
- **Introduced Bill:** [DOD Clean Energy Act](#)  
Congressman Casten (IL), 27 May 2022
- **Article:** [The myth of US energy independence](#)  
Nature Energy, 25 May 2022

## EVENTS

- [Biodiversity, Conservation Science and Climate Change: 2022 Annual Conference of the Global Council for Science and the Environment](#)  
21 – 24 June 2022 / Virtual  
Global Council for Science and the Environment
- [Advanced technology to accelerate zero-emission medium- and heavy-duty vehicle deployment](#)  
23 June 2022 / 10:00 am ET / 7:00 am PT / Virtual  
Atlantic Council
- [Patti Poppe: Navigating PG&E Through Climate Disruption](#)  
21 July 2022 / 6:00 pm PT / San Francisco & Virtual  
Climate One
- [2022 Veterans Advanced Energy Summit](#)  
8-9 August 2022 / Chicago, IL  
Atlantic Council Global Energy Center
- **2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**  
21-22 September 2022 / Virtual / Hybrid  
IC Environmental Security Working Group & Partners  
*Co-hosted by NPS / Details forthcoming*
- [National Adaptation Forum](#)  
25 - 27 October 2022 / Baltimore, MD  
EcoAdapt

## OPPORTUNITIES

- [Call for Nominations: Review Editors for the Fifth National Climate Assessment](#)  
Nominations due 1 July 2022.
- **[NEW]** [Joint Office of Energy and Transportation Solicits Public Nominations for Electric Vehicle Working Group](#)

Nominations are accepted for committee members to make up the FACA EV Working Group to make recommendations regarding EV development, adoption, and integration across the U.S. **Nominations due 15 July 2022.**

- [\*\*Call for Public Comment on the Draft U.S. Global Change Research Program \(USGCRP\) Decadal Strategic Plan, 2022 – 2031\*\*](#)  
**Comments due 15 July 2022.**
- [\*\*Call For Proposals: Operational Energy Capability Improvement Fund \(OECIF\) and Operational Energy Prototyping Fund \(OEPF\)\*\*](#)  
**Due dates vary but generally 1 - 4 August 2022.**
- **[NEW]** [\*\*Request for Information on Climate-Related Financial Risk\*\*](#)  
The Commodity Futures Trading Commission is seeking public responses to better inform its understanding and oversight of climate-related financial risk. **Comments due 8 August 2022.**

Dear CSN Members,

I have the honor of congratulating several NPS student members of the CSN network who graduated with Master Degrees last week:

**Lieutenant Monica Killoran, USN** – Master of Science in Meteorology and Physical Oceanography

**Lieutenant Shawn Reed, USN** – Master of Business Administration, Financial Management

**Captain Joseph Yanuzzi, USMC** – Master of Arts in Security Studies (Middle East, South Asia, Sub-Saharan Africa)

Congratulations to these officers on their accomplishments!

Below is the collection of updates from the last week in the climate and security world, including a special section on Ukraine.

Have a good weekend,

Kristen

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## NPS Climate & Security Network Weekly Update: 24 June 2022

### Special Section: Ukraine

- Japan Times: [New brand of activist takes aim at Ukraine war and climate crisis, together](#)
- World Economic Forum: [The world is becoming more compassionate towards refugees because of Ukraine](#)
- CBS News: [Millions face famine in South Sudan as war in Ukraine impacts countries beyond Europe](#)
- Elements: [Who's Still Buying Fossil Fuels From Russia?](#)
- UN Release: [COVID-19, war in Ukraine, Environmental Crisis 'Wake-Up' Call for Action to Achieve Sustainable Development, Deputy Secretary-General Tells Commonwealth Ministers](#)
- New York Times: [Asia is buying discounted Russian oil, making up for Europe's cutbacks](#)
- DW: [Ukraine war threatens climate targets](#)
- Stanford Lawyer: [National Security and Energy Policy in the Wake of Russia's Invasion of Ukraine](#)

### NEWS

- [Can Biden's Climate Goals Stay on Course Amid America's LNG Export Growth?](#)  
24 June 2022, Forbes
- [What to watch at the G7 summit on climate change, energy](#)  
24 June 2022, The Washington Post

- [\*\*The Energy Crisis is a National-Security Opportunity\*\*](#)  
23 June 2022, Defense One
- [\*\*Navy to test how climate change will affect future conflicts\*\*](#)  
22 June 2022, The Hill
- [\*\*Building Climate-Secure Communities: The USAID Climate Strategy and FY 2023 Budget Request\*\*](#)  
22 June 2022, Center for Climate and Security
- [\*\*Navy Holding Climate Change Wargame\*\*](#)  
21 June 2022, USNI News
- [\*\*Australia's Spy Chief to Assess Climate Change Security Risks\*\*](#)  
21 June 2022, Bloomberg
- [\*\*You've likely been affected by climate change. Your long-term finances might be, too.\*\*](#)  
21 June 2022, NPR
- [\*\*Columbia's First Black Vice President Brings Major Climate Focus\*\*](#)  
20 June 2022, Bloomberg
- [\*\*Columbia's new president Gustavo Petro pledges to keep fossil fuels in the ground\*\*](#)  
20 June 2022, Climate Home News
- [\*\*Germany confronts its nuclear demons\*\*](#)  
20 June 2022, Foreign Policy
- [\*\*Biden team sees climate 'emergency' but powers are limited\*\*](#)  
20 June 2022, The Washington Post
- [\*\*FERC has a new plan to connect clean energy to the grid more quickly\*\*](#)  
20 June 2022, Canary Media
- [\*\*From Vanuatu law school to the Hague: the fight to recognize climate harm in international law\*\*](#)  
19 June 2022, The Guardian
- [\*\*Mexico signs renewable energy deals with US companies as it steps up climate change fight\*\*](#)  
18 June 2022, The National News
- [\*\*The UN leader's unique and lonely role on climate\*\*](#)  
17 June 2022, Axios
- [\*\*U.S. LNG Exports Deliver Energy Security, Economic Stability in Europe\*\*](#)  
17 June 2022, Real Clear Energy
- [\*\*California Considers 'Carbon Farming' As a Potential Climate Solution. Ardent Proponents, and Skeptics, Abound\*\*](#)  
17 June 2022, Inside Climate News
- [\*\*Is synthetic petroleum the missing link in the route to net zero?\*\*](#)

13 June 2022, Chemistry World

- [\*\*In Africa, Conflict and Climate Super-Charge the Forces Behind Famine and Food Insecurity\*\*](#)

12 June 2022, Inside Climate News

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Article:** [\*\*The interaction of ice and law in Arctic marine accessibility\*\*](#)  
Earth, Atmospheric, and Planetary Sciences, 21 June 2022
- **Report:** [\*\*World Energy Investment 2022\*\*](#)  
International Energy Agency, June 2022
- **Article:** [\*\*“Carbon Bombs: - Mapping key fossil fuel projects\*\*](#)  
Energy Policy, July 2022
- **Tool:** [\*\*Climate Shift Index\*\*](#)  
Climate Central, June 2022
- **Podcast:** [\*\*Building the arsenal of clean energy\*\*](#)  
Canary Media, 23 June 2022
- **Briefer:** [\*\*Climate Security: An Agenda for Future Research\*\*](#)  
Center for Climate and Security, 23 June 2022
- **Fact Sheet:** [\*\*President Biden to Galvanize Global Action to Strengthen Energy-Security and Tackle the Climate Crisis through the Major Economies Forum on Energy and Climate\*\*](#)  
White House, 17 June 2022
- **Podcast:** [\*\*What to do with clean energy waste?\*\*](#)  
Canary Media, 16 June 2022
- **Report:** [\*\*Due North: Facing the Costs of Climate Change for Northern Infrastructure\*\*](#)  
Canadian Climate Institute, June 2022

## EVENTS

- **[NEW]** [\*\*Environment of Peace – Security in a New Era of Risk\*\*](#)  
29 June 2022 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Virtual  
Wilson Center
- **[NEW]** [\*\*Unpacking the 2022 NATO Summit: A conversation with Admiral James Stavridis\*\*](#)  
1 July 2022 / 10 – 10:30 am ET / 7 – 7:30 am PT / Virtual  
American Security Project
- **[NEW]** [\*\*The War in Ukraine and Energy Security and Energy Market Disruption\*\*](#)  
19 July 2022 / 10 – 10:45 am ET / 7 – 7:45 am PT / Virtual  
American Security Project
- [\*\*Patti Poppe: Navigating PG&E Through Climate Disruption\*\*](#)

21 July 2022 / 6:00 pm PT / San Francisco & Virtual  
Climate One

- [2022 Veterans Advanced Energy Summit](#)  
8-9 August 2022 / Chicago, IL  
Atlantic Council Global Energy Center
- **2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**  
21-22 September 2022 / Virtual / Hybrid  
IC Environmental Security Working Group & Partners  
*Co-hosted by NPS / Details forthcoming*
- [National Adaptation Forum](#)  
25 - 27 October 2022 / Baltimore, MD  
EcoAdapt
- **[NEW] [The Role of AI in Responding to Climate Challenges](#)**  
17 - 19 November 2022 / Arlington, VA  
Association for the Advancement of AI

## OPPORTUNITIES

- **[NEW] [Call for Nominations: Polar Research Board](#)**  
The National Academies' Polar Research Board provides scientific advice on issues related to the Arctic, Antarctic, and cold regions in general. Nominees are encouraged with expertise in glaciology, sea ice, marine and terrestrial conservation, hydrology, geology/geophysics, space science, resource management, and science policy. Self-nominations are welcome.  
**Nominations due 8 July 2022.**
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Nominations are accepted for committee members to make up the FACA EV Working Group to make recommendations regarding EV development, adoption, and integration across the U.S. **Nominations due 15 July 2022.**
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**Due dates vary but generally 1 - 4 August 2022.**
- [Request for Information on Climate-Related Financial Risk](#)  
The Commodity Futures Trading Commission is seeking public responses to better inform its understanding and oversight of climate-related financial risk. **Comments due 8 August 2022.**
- **[NEW] [Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule](#)**

The Environmental Protection Agency is proposing to amend provisions in the Greenhouse Gas Reporting Rule to improve the quality and consistency of the data collected under the rule, streamline and improve implementation, and clarify minor updates to other provisions. **Comments due 22 August 2022.**