

Dear CSN Members,

It's been a busy week in the climate world. Below is the collection of updates from the last week – including news articles on the DON's climate-focused war game, Presidential action on Illegal, Unreported and Unregulated (IUU) fishing and the special section on Ukraine.

In addition, you've likely seen reports on the climate-related Supreme Court decision issued on Thursday in **West Virginia v EPA**; the opinion is available [here](#). Below are some perspectives on that decision.

- **SCOTUS Blog:** [Supreme Court curtails EPA's authority to fight climate change](#)
- **Bloomberg Law:** [Biden Agenda Takes Hit From High Court Intent on Limiting It \(1\)](#)
- **PBS News Hour:** [EPA Administrator Michael Regan discusses Supreme Court ruling on climate change](#)
- **EESI:** [Alarming Supreme Court Decision Makes Congressional Climate Action Even More Critical](#)
- **New Scientist:** [What does the new US Supreme Court ruling mean for carbon emissions?](#)
- **The Verge:** [The Supreme Court just took away an EPA tool to fight climate change – what happens next?](#)

As an attorney, the most striking element in this case to me was that it was accepted and heard by the Supreme Court when there wasn't an active rule to review. The case addresses rules related to the Clean Power Plan in 2015 which subsequently were changed and litigated under 3 administrations and the newest version of which are still under development by the EPA. While the Court addressed this issue in its opinion, it is extremely rare for the Court to hear a case under these circumstances.

Wishing everyone a nice holiday weekend,

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 1 July 2022

Special Section: Ukraine

- Inside Climate News: [NATO Moves to Tackle Military Greenhouse Gas Emissions Even While Girding Against Russia](#)
- Foreign Policy: [The Ukraine War is Dividing Europe's Arctic Indigenous People](#)
- Radio Free Europe: [Scorched Earth: The Catastrophic Environmental Costs Of Russia's Invasion of Ukraine](#)
- Inside Climate News: [Blaming Russia's War, G7 Leaders Rescind Another Global Climate Pledge](#)
- Clean Technica: [Solar Power Plants Are More Missile Resistant](#)

- Business Tech: [‘Wake up’ needed after Russian-Ukraine war: Ramaphosa](#)
- NPR: [War in Ukraine is driving demand for Africa’s natural gas. That’s controversial](#)
- World Economic Forum: [The war in Ukraine is triggering a re-evaluation of global systemic risk](#)

NEWS

- [Navy-Marine war game puts their climate action strategy to the test](#)
30 June 2022, Navy Times
- [Nuclear power is gaining support after years of decline. But old hurdles remain](#)
30 June 2022, NPR
- [NOAA Has Nearly \\$3 Billion to Spend on Climate Security Projects](#)
29 June 2022, Homeland Security
- [What is the impact of climate change on hurricanes?](#)
29 June 2022, New York Times
- [An island, an amphib, a typhoon: Navy hosts climate-focused war game](#)
29 June 2022, Breaking Defense
- [Within the Health, Climate, and Security Nexus, Prevention is Better than a Cure](#)
29 June 2022, Center for Climate and Security
- [Can war be net-zero? NATO pledges massive revamp of energy-guzzling equipment](#)
28 June 2022, CNBC News
- [Hybrid tanks? Congress pushes military to confront climate](#)
28 June 2022, Climate Wire
- [Department of Defense Grant to Address Impacts of Sea-Level Rise to Mānā Plain](#)
28 June 2022, Kaua’i Now
- [The secret behind a new ocean consortium tackling climate change](#)
27 June 2022, Fast Company
- [Sustainability and Resource Scarcity](#)
27 June 2022, American Security Project
- [California moves to simplify interconnection rules for distributed energy resources](#)
27 June 2022, Utility Dive
- [Biden, NOAA pledge to step up fight against illegal fishing](#)
27 June 2022, E&E News / See Fact Sheet in Resources Section below
- [Congress Quietly Backed An Ambitious Climate Project: Sending CO2 To The Ocean Floor](#)
24 June 2022, Huffington Post
- [An integrated approach to climate security & peacebuilding in Somalia](#)
24 June 2022, Planetary Security Initiative

- [Defence Agencies ‘Accelerating’ Risk of ‘Hothouse Earth’](#)
23 June 2022, Byline Times
- [Action needed: Three priorities for Iraq’s water sector](#)
21 June 2022, Planetary Security Initiative

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Fact Sheet:** [President Biden Signs National Security Memorandum to Combat Illegal, Unreported, and Unregulated Fishing and Associated Labor Abuses](#)
White House, 27 June 2022
Additional Resource: [Recent NPS Student Thesis](#) by LCDR Mark Leahey, USCG
- **Article:** [Extreme Weather Impacts of Climate Change: an attribution perspective](#)
Environmental Research/Climate, 28 June 2022
- **Podcast:** [Clionadh Raleigh on Reframing “Climate Security”](#)
New Security Beat, 24 June 2022
- **Event Summary:** [U.S. Climate Security Investments: Changing Plans Into Action](#)
Center for Climate & Security, 28 June 2022
- **Article:** [Climate change and armed conflicts in Africa: temporal persistence, non-linear climate impact and geographical spillovers](#)
Economia Politica, 10 June 2022
- **Technical Resource:** [USGCRP Indicator Platform](#)
US Global Change Research Program
- **Webinar Video:** [How Climate Change Undermines Security in Iraq, Africa, and India](#)
Clingendael Institute, 20 June 2022

EVENTS

- **[NEW]** [China’s role in Russian energy: What’s changed since Feb 24th?](#)
8 July 2022 / 12:30 pm ET / 9:30 am PT / Virtual
Atlantic Council
- [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
- [**The Role of AI in Responding to Climate Challenges**](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI

OPPORTUNITIES

- [**\[NEW\] Request for Public External Comment on the USAID Agency Plan Under the Global Water Strategy**](#)
USAID invites comments from the public on its draft Global Water Strategy Agency-Specific Plan. **Comments due 5 July 2022.**
- [**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.
- [**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.
- [**Request for Information on Climate-Related Financial Risk**](#)
Comments due 8 August 2022.
- [**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.

Dear CSN Members,

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

There are a few additional articles on the West Virginia v. EPA case included below; many thanks to those of you who shared resources on this. A special thanks to Dan E who pointed out that Justice Kagan's dissent quotes the Defense Climate Risk Analysis in which the CSN participated. Nice to know that reports we support are influencing decisions.

Also, I want to highlight an NPS article that came out this week on Climate Analysis and Prediction:

- [**NPS Researchers Leave a Lasting Legacy in Climate Analysis and Prediction**](#)
6 July 2022, NPS Release

Wishing everyone a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 8 July 2022

Special Section: Ukraine

- Cambridge Day: [**The Ukraine war and our future climate**](#)
- Nature: [**Europe must not backslide on climate action despite war in Ukraine**](#)
- Wall Street Journal: [**Private Sector's Role in Climate Fight Grows During War in Ukraine**](#)
- Reuters: [**German gas grid firms amend plans to reflect Russia-Ukraine war**](#)
- NPR: [**Ukraine's farmers face Russia's blockade and explosives on their lands this harvest**](#)
- RNZ: [**Ukraine war, Climate change add urgency to defence review**](#)
- Reuters: [**Senegal sees growing support for African gas amid Ukraine war**](#)
- Onrec: [**How Has The War In Ukraine Affected Energy, Climate, and Job Segments?**](#)
- Al Jazeera: [**Climate change and war send Syria's bees further afield**](#)

NEWS

- [**Pakistan's Climate Challenges Pose a National Security Emergency**](#)
7 July 2022, United States Institute of Peace
- [**The flooding in Yellowstone reveals forecast flaws as climate warms**](#)
7 July 2022, NPR
- [**Australia's finally acknowledged climate change is a national security threat. Here are 5 mistakes to avoid**](#)
6 July 2022, The Conversation

- [European Parliament backs listing nuclear energy, gas as ‘green’](#)
6 July 2022, DW
- [Europe is heating up faster than other ‘hot spots,’ a study finds](#)
6 July 2022, New York Times
- [‘All that’s needed is a spark’: why the US may be headed for a summer of mega-fire](#)
6 July 2022, The Guardian
- [How hot is too hot for the human body? Our lab found heat + humidity gets dangerous faster than many people realize](#)
6 July 2022, The Conversation
- [Summer 2022 NATO and G7 Climate Security Developments](#)
6 July 2022, American Security Project
- [Urban flooding presents challenges for electric vehicle charging stations](#)
6 July 2022, Utility Dive
- [We Need a Secretary of Climate to Help Save the World](#)
5 July 2022, Newsweek
- [Nuclear Power Gets New Push in U.S., Winning Converts](#)
5 July 2022, New York Times
- [Exploring Climate Security: Why Bad Outcomes Occur in Some Places and Not Others](#)
5 July 2022, New Security Beat
- [The solutions to climate change and plastic pollution are linked](#)
5 July 2022, Natural History Museum
- [Climate Change Isn’t a Threat Multiplier. It’s the Main Threat.](#)
2 July 2022, Defense One
- [U.S. Climate Policy Has a New Obstacle](#)
1 July 2022, Foreign Policy
- [The Supreme Court’s EPA Decision Is More Gloom Than Doom](#)
1 July 2022, New York Times
- [The Department of the Navy Hosts Climate Tabletop Exercise](#)
29 June 2022, Navy Release

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Backgrounder:** [Climate Change and the National Defense Authorization Act](#)
Center for Climate and Security, 5 July 2022
- **Video:** [Responding to hurricanes, wildfires, pandemics and other major crises at U.S. Army North](#)
Defense Matters, 3 July 2022

- **Article:** [Accelerated western European heatwave trends linked to more-persistent double jets over Eurasia](#)
Nature Communications, 4 July 2022
- **Video:** [SCOTUS made a new cheat code to cut \(climate\) regulations](#)
The Climate Recap, 3 July 2022
This is a new climate-focused YouTube channel by CSN Member Becky Hoag.
- **Article:** [Twentieth-century Azores High expansion unprecedented in the past 1,200 years](#)
Nature Geoscience, 4 July 2022
- **Article:** [Impact of Rocket Launch and Space Debris Air Pollutant Emissions on Stratospheric Ozone and Global Climate](#)
Earth's Future (AGU), 9 June 2022
- **Article:** [Declining tropical cyclone frequency under global warming](#)
Nature Climate Change, 27 June 2022
- **Resources:** [Read, Watch, Listen: CCS Across the Web](#)
Center for Climate & Security, June 2022

EVENTS

- **[NEW]** [Report Launch: Securing the energy transition against cyber threats](#)
12 July 2022 / 3:30 pm ET / 12:30 pm PT
Atlantic Council
- **[NEW]** [How Are We, and How Should We Be, Adapting to Climate Change?](#)
18 July 2022 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Virtual
NASEM / Hauser Policy Fund Webinar Series
- [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
- **[NEW]** [Congressional Renewable Energy and Energy Efficiency Policy Forum](#)
25 July 2022 / 1300 – 1700 ET / 0900 – 1300 ET
Environmental and Energy Study Institute
- **[NEW]** [NATO's Next Act – A Conversation with Ambassador Doug Lute](#)
26 July 2022 / 12 – 12:30 pm ET / 9 – 9:30 am PT
- **[NEW]** [2022 Scientific Committee on Antarctic Research \(SCAR\) Open Science Conference](#)
1-10 August 2022 / Virtual
National Centre for Polar and Ocean Research
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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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Co-hosted by NPS / Details forthcoming
- **[National Adaptation Forum](#)**
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
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OPPORTUNITIES

- **[Call For Proposals: Operational Energy Capability Improvement Fund \(OECIF\) and Operational Energy Prototyping Fund \(OEPF\)](#)**
Due dates vary but generally 1 - 4 August 2022.
- **[Request for Information on Climate-Related Financial Risk](#)**
Comments due 8 August 2022.
- **[Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule](#)**
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Comments due 22 August 2022.

Dear CSN Members,

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

I'm also pleased to announce two upcoming CSN events.

- **Maritime Decarbonization**
2 August 2022 / 1200 PT / in-person only
MAE Auditorium, Naval Postgraduate School
- **ONR S&T Activities and Opportunities to support Navy Climate Action 2030**
3 August 2022 / 1200 PT / Virtual

We're finalizing links and details and will share those next week.

Hope you have a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 15 July 2022

Special Section: Ukraine

- Nature: [Russia's war in Ukraine forces Arctic climate projects to pivot](#)
- DW: [Ukraine war worsens food insecurity worldwide](#)
- Time: [Climate Change is Driving Food Nationalism and Changing Global Trade](#)
- The Hill: [Rebuilding Ukraine for a changing climate](#)
- Newsweek: [Climate Ambition Must Not Be a Casualty of the War in Ukraine](#)
- Observer Research Foundation: [Global Food Crisis: A looming catastrophe](#)
- The Washington Post: ['Not your grain': Blinken at G-20 tells Russia to end Ukraine blockade](#)
- Vox: [Australia Urges China to Push Russia to End Ukraine War](#)

NEWS

- [What's in a Name? Making the Case for the Sahel Conflict as "Eco-violence"](#)
15 July 2022, New Security Beat
- [What Biden's Saudi trip says about U.S. climate efforts](#)
13 July 2022, ClimateWire
- [Energy & Environment: Are the feds closing the door on climate action?](#)
11 July 2022, The Hill
- [From Climate Change to Regional Security, the DRC Looms Large](#)
13 July 2022, Council on Foreign Relations

- [California lawmakers are ready to decarbonize the shipping industry. The technology isn't there yet.](#)
11 July 2022, Grist
- [Climate and energy at the US-Mexico bilateral summit](#)
11 July 2022, Atlantic Council
- [New French Climate & Defense Strategy Foreshadows a Wave of Climate Security Plans in Europe](#)
11 July 2022, Center for Climate & Security
- [Why disasters are getting more severe but killing fewer people](#)
10 July 2022, Vox
- [F/A-18 Super Hornet assigned to USS Harry S. Truman blown overboard due to unexpected heavy weather](#)
10 July 2022, Navy Release
- [Energy transition is energy security](#)
8 July 2022, Canada's National Observer
- [Can FEMA Survive Climate Change?](#)
8 July 2022, Slate
- [Water Security and Solar Power in the MENA Region](#)
8 July 2022, American Security Project
- [Brazil's Supreme Court Rules Paris Agreement Is a Human Rights Treaty](#)
8 July 2022, EcoWatch
- [DOE Awards \\$14 Million to Improve Climate Change Predictions](#)
7 July 2022, Department of Energy Release
- [Sarah Kapnick named NOAA chief scientist](#)
7 July 2022, NOAA Release
- [What you need to know about critical minerals and climate change](#)
6 July 2022, ABC News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Summaries:**
[Assessing the U.S. Climate in June 2022](#)
[June 2022 Global Climate Report](#)
National Centers for Environmental Information
- **Report:** [Securing the Energy Transition Against Cyber Threats](#)
Atlantic Council, July 2022
- **Report:** [Billion-Dollar Weather and Climate Disasters](#)
National Centers for Environmental Information, July 2022

- **Report:** [World Migration Report 2022](#)
International Organization for Migration (UN), July 2022
- **Article:** [Lag in response of coastal barrier-island retreat to sea-level rise](#)
Nature Geoscience, 7 July 2022
- **Webinar Video:** [Understanding the Supreme Court's Decision in West Virginia v. EPA](#)
Georgetown Climate Center, 8 July 2022

EVENTS

- [How Are We, and How Should We Be, Adapting to Climate Change?](#)
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- [2022 Scientific Committee on Antarctic Research \(SCAR\) Open Science Conference](#)
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National Centre for Polar and Ocean Research
- **[CSN / NEW] Maritime Decarbonization**
2 August 2022 / 1200 PT / in-person only
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Details forthcoming
- **[CSN / NEW] ONR S&T Activities and Opportunities to support Navy Climate Action 2030**
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- [Moving Mountains: Energy, Climate and National Security in West Virginia](#)
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American Security Project and University of Charleston

- **2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**
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- **[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 for the Committee for the Review of the Draft 5th Climate Assessment](#)**
U.S. Global Change Research Program is seeking nominations for a new ad hoc committee of the National Academies to conduct an independent technical review of the 5th National Climate Assessment draft report. **Nominations due 1 August 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.
- **[Request for Information on Climate-Related Financial Risk](#)**
Comments due 8 August 2022.
- **[Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule](#)**
Comments due 22 August 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine. This week's email is coming early as I'll be on leave for a few days. The next update will be on Friday, 29 July.

A few highlights from NPS...

- [NPS Researchers Explore the Impact of Sea Ice Change in Bering Sea](#)
19 July 2022, NPS Release

& a reminder of our two upcoming CSN events:

- [Maritime Decarbonization](#)
2 August 2022 / 1200 PT / in-person only
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Note: open to NPS Faculty, Researchers & Students; Link forthcoming

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NPS Climate & Security Network Weekly Update: 20 July 2022

Special Section: Ukraine

- AP News: [Climate aid, war fallout feature at Berlin climate talks](#)
- Nature: [Seven Ways the war in Ukraine is changing global science](#)
- The Economic Times: [Invasion of Ukraine number one concern for India followed by cost-of-living crisis and climate change](#)
- AIES: [Geopolitics of the War in Ukraine](#)
- New York Times: [War and Warming Upend Global Energy Supplies and Amplify Suffering](#)
- Reuters: [Ukraine conflict could speed up Germany's green energy transition, study says](#)
- United States Institute of Peace: [To Counter Russia's Aggression, Invest in Africa](#)

NEWS

- [Record heat wave deepens Europe's energy crisis](#)
19 July 2022, The Washington Post

- [Carbon Business Council Launches to Create a Seat at the Policy Table for More Than 40 Leading Carbon Management Startups](#)
19 July 2022, AP News
- [Declaring a Climate Change Emergency: A Citizen's Guide](#)
19 July 2022, Legal Planet (Berkeley Law/UCLA Law)
- [NATO disappoints with tepid climate action](#)
18 July 2022, Energy Monitor
- [Climate Finance: Taking Stock of Investments and Opportunities to Sustain Peace](#)
18 July 2022, New Security Beat
- [A Success in Norfolk Should Also Be a Warning](#)
18 July 2022, Defense One
- [Europe glimpses climate future, with record-breaking heat](#)
18 July 2022, Climate Wire
- ['Melted Runway' Halts Flights Out of British Military Base](#)
18 July 2022, Gizmodo
- [National security starts with keeping the lights on](#)
18 July 2022, Ohio Capital Journal
- [The Northeast is poised to become a 'hydrogen hub'](#)
18 July 2022, Grist
- [A Wilting Climate Response](#)
18 July 2022, New York Times
- [This Map Will Make You Optimistic About Fighting Climate Change](#)
17 July 2022, Bloomberg
- [The Year Summer Got Serious](#)
17 July 2022, Bloomberg
- [The US Army selects Canoo's EV for analysis and demonstration](#)
15 July 2022, Drive Tesla Canada
- [How the EU Can Help Iran Tackle Water Scarcity](#)
7 July 2022, Carnegie Europe

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Reports from Congressional Research Service:**
 - [Climate Change and Adaptation: Department of Defense](#), 12 July 2022
 - [Coast Guard Polar Security Cutter \(Polar Icebreaker\) Program: Background and Issues for Congress](#), updated 12 July 2022
 - [Wildfire Statistics](#), 11 July 2022
 - [Geoengineering: Ocean Iron Fertilization](#), 7 July 2022

- **Resources:** [Twenty-Eight Resources for Understanding the Infrastructure Investment and Jobs Act](#)
Environmental and Energy Studies Institute, 15 July 2022
- **Video:** [Development of a Framework for Evaluating Global Greenhouse Gas Emissions Information for Decision Making: A Workshop](#)
National Academies of Sciences, Engineering and Medicine, June 2022
- **Report:** [Geopolitical Dimensions of the Energy Transition](#)
Center for Security Studies, July 2022
- **Blog Post:** [How Do We Predict Climate Change?](#)
Science Blog, 13 July 2022
- **Report:** [Benchmarking Africa's Minigrids](#)
Africa Minigrids Developers Association, July 2022
- **Paper:** [The IMF, Africa and Climate Change – Making Sense of an Implausible Trilogy](#)
Center for Global Development, June 2022

EVENTS

- **[NEW]** [Indo-Russia relations, energy ties, and crude flows in the post-invasion period](#)
22 July 2022 / 1300 ET / 1000 PT / Virtual
Atlantic Council
- [Congressional Renewable Energy and Energy Efficiency Policy Forum](#)
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Co-hosted by NPS / Registration Link for USG available in August
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- [**Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule**](#)
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- **[NEW]** [**Funding Opportunity: Minerva Research Initiative's Defense Education and Civilian University Research Partnership**](#)
Minerva's DECUR Partnership aims to develop collaborative basic research partnerships between Defense Professional Military Education (PME) Institutions and Civilian Research Universities by supporting basic research projects that improve capacities in defense-related basic social science to inform Department of Defense (DoD) policy makers and decision leaders. **White papers due 8 September 2022; Applications due 22 November 2022.**

Dear CSN Members,

Below is the (rather hefty!) collection of updates in climate and security from the last week including the special section on Ukraine and a special section on the climate and energy provisions in the Inflation Reduction Act in the Senate.

A quick reminder of our upcoming CSN events next week:

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- **ONR S&T Activities and Opportunities to support Navy Climate Action 2030**
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Open to NPS Faculty, Researchers & Students; email me for link

Thanks again to those who share news and resources. You help make the weekly update diverse and thorough. Hope everyone has a nice week,

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 29 July 2022

Special Section: Inflation Reduction Act of 2022

- Grist: [Here's what's in the Senate's \\$369 billion for climate and energy](#)
- Politico: ['Easter Eggs' in climate bill delight oil and gas industry](#)
- The New York Times: [Surprise Deal Would Be Most Ambitious Climate Action Undertaken by U.S.](#)
- PBS (video): [Senate agreement on climate change, health care revives Biden's legislative agenda](#)
- Scientific American: [How the Senate Climate Bill Could Slash Emissions by 40 Percent](#)
- Inside Climate News: [Senate Democrats Produce a Far-Reaching Climate Bill, But the Price of Compromise with Joe Manchin is Years More Drilling for Oil and Gas](#)

Special Section: Ukraine

- Wall Street Journal: [Putin's Gas Game: Toy With Europe's Supply and Make Its Leaders Squirm](#)
- World Economic Forum: [How has the war impacted Ukraine's environment?](#)
- Financial Times: [Ukraine War spurs LNG demand in Japan despite fossil fuel activism](#)
- CNBC Africa: [Ukraine war rekindles Europe's demand for African oil and gas](#)
- Defense One: [The Danube Won't Solve Ukraine's Grain Problems](#)

- The New York Times: [War and Warming Upend Global Energy Supplies and Amplify Suffering](#)
- New Security Beat: [Cascading Impacts of the War in Ukraine: Mental, Maternal, and Newborn Health](#)

NEWS

- [These hurricane flood maps reveal the climate future for Miami, NYC and D.C.](#)
28 July 2022, NPR
- [Making Hydrogen Power a Reality](#)
27 July 2022, MIT News
- [EU countries rewrite plan to cut gas demand, seek carve-outs](#)
25 July 2022, Reuters
- [Climate Finance: Can Integrity and Transparency Prevent Environmental Catastrophe?](#)
25 July 2022, New Security Beat
- [Electric Vehicle Fleets and the U.S. Military](#)
25 July 2022, American Security Project
- [Greenland ice melt kicks into high gear](#)
25 July 2022, Axios
- [Biden's Climate Emergency Decision Would Unlock Pentagon Funding](#)
22 July 2022, Bloomberg Law
- [The Slow Bake of our Infrastructure](#)
22 July 2022, Scientific American
- [By Not Acting on Climate, Congress Endangers U.S. National Security](#)
21 July 2022, Foreign Policy
- [Summer Heatwave Underscores Importance of NATO's Climate Security Focus](#)
21 July 2022, Center for Climate & Security
- [Inside Clean Energy: Did You Miss Me? A Giant Battery Storage Plant is Back Online, Just in Time for Summer](#)
21 July 2022, Inside Climate News
- [In a paradox, cleaner air is now adding to global warming](#)
20 July 2022, Science
- [Drought center tapped to help predict civil unrest](#)
20 July 2022, Farm Progress
- [Extreme rainfall will be worse and more frequent than we thought, according to new studies](#)
20 July 2022, Grist

- [Britain's freakish heat demolished records. Here how it happened.](#)
20 July 2022, The Washington Post
- [Amid Summer Heat Wave, Germany Worries About Having Enough Gas for Winter](#)
20 July 2022, The Washington Post
- [Power Plants are Going Green, Despite the Supreme Court's Ruling](#)
20 July 2022, Grist
- [Water Diplomacy can Learn from Realist Ideas](#)
19 July 2022, New Security Beat
- [A way forward on the climate crisis and energy insecurity](#)
18 July 2022, Boston Globe
- [Renewing U.S. Infrastructure for Resilience and Equity](#)
18 July 2022, National Academies of Science, Engineering and Medicine

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Article:** [Developing Water Resiliency Solutions at Military Installations](#)
Climate Risk Management, 26 July 2022
- **Podcasts from Climate One:**
 - [Turning down the Heat: Decarbonizing Cement and Steel](#) (22 July 2022)
 - [On the Run: Voluntary and Forced Climate Migration](#) (15 July 2022)
 - [Rewind: Firefight: How to live in the Pyrocene](#) (8 July 2022)
- **Infographic:** [Visualizing the World's Largest Oil Producers](#)
Elements, 28 July 2022
- **Resource Module:** [Communicating Subseasonal to Seasonal Impacts: Climate Change](#)
COMET by University Corporation for Atmospheric Research, July 2022
- **New from the U.S. Government:**
 - [Joint Office of Energy & Transportation](#), July 2022
Note: Office created through the Bipartisan Infrastructure Law to facilitate collaboration between the Department of Energy and Department of Transportation
 - [Heat.gov](#), July 2022
Note: portal for the National Integrated Heat Health Information System (NIHHIS)
- **Book:** [Global Warming Science](#)
Princeton University Press, May 2022
- **Report:** [Climate Security Snapshot: The Balkans](#)
International Military Council on Climate & Security, July 2022
- **Newsletter:** [Parched](#)
Grist, July 2022; *Note: this is a limited-run newsletter on droughts*
- **Webinar Video:** [Shared Risk, Shared Opportunity: Critical Minerals and the Transatlantic Climate Bridge](#)

Wilson Center, July 2022

- **Report: [Special Report on Solar PV Global Supply Chains](#)**
International Energy Agency, July 2022

EVENTS

- **[CSN] [Maritime Decarbonization](#)**
2 August 2022 / 1200 PT / in-person only
MAE Auditorium, Naval Postgraduate School
Climate & Security Network / Energy Academic Group
Note: video will be made available following the event.
- **[CSN] ONR S&T Activities and Opportunities to support Navy Climate Action 2030**
3 August 2022 / 1200 PT / Virtual
Open to NPS Faculty, Researchers and Students; email kristen.fletcher@nps.edu for link
- **[NEW] [Strengthening U.S. Leadership on Climate and Energy Security](#)**
4 August 2022 / In-person and Virtual
Environmental Defense Action Fund, Vet Voice Foundation, American Security Project and Center for Climate & Security
- **[Moving Mountains: Energy, Climate and National Security in West Virginia](#)**
9 August 2022 / Noon – 1:30 pm ET / 9 – 10:30 am PT / Virtual
American Security Project and University of Charleston
- **[NEW] [Communicating the Climate Crisis – Effective Messaging & Dispelling Disinformation](#)**
12 August 2022 / 11 – 11:45 am ET / 8 – 8:45 am PT
American Security Project
- **[NEW] [Climate Conversations: Wildfire](#)**
25 August 2022 / 3 – 4 pm ET / 12 – 1 pm PT
National Academies of Science, Engineering and Medicine
- **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 / Registration Link for USG available in August
- **[National Adaptation Forum](#)**
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI

OPPORTUNITIES

- **[Request for Information on Climate-Related Financial Risk](#)**

Comments due 8 August 2022.

- [**Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule**](#)

Comments due 22 August 2022.

- [**Funding Opportunity: Minerva Research Initiative's Defense Education and Civilian University Research Partnership**](#)

White papers due 8 September 2022; Applications due 22 November 2022.

Dear CSN Members,

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

CSN Member and NPS Faculty Emeritus Tom Murphree has shared a wealth of meteorological related articles on climate lately; there's a special section on that below. (Thanks, Tom!)

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 5 August 2022

Special Section: Ukraine

- Columbia Center on Global Energy Policy: [How Russia's war on Ukraine has Impacted Global Gas Markets](#)
- The Wilson Quarterly: [The Urgency of Opportunity: Russia's War on World Resources](#)
- Middle East Institute: [Ukraine's critical minerals and Europe's energy transition: A motivation for Russian aggression?](#)
- The New York Times: [War, Climate Change, Energy Costs: How the Wheat Market Has Been Upended](#)
- American Security Project: [Eye on Moldova: Keeping the Peace in Transnistria as War Ravages Ukraine](#)
- Fair Observer: [The Russia-Ukraine War and the Weaponization of Food](#)
- iNews: [Europe looks again at nuclear power after Ukraine war makes Russian gas look like a less useful stopgap](#)

Special Section: Meteorological Resources

- The Guardian: ['Reality is scary': climate culture war heats up for UK meteorologists](#)
- The Guardian: [Revealed: how climate breakdown is supercharging toll of extreme weather](#)
- Carbon Brief: [Attributing extreme weather to climate change](#)
- Climate Central: [Introducing the Climate Shift Index](#)
- World Meteorological Organization: [State of the Climate in Latin American and the Caribbean](#)
- NOAA: [The State of High Tide Flooding and 2022 Outlook](#)
- NOAA: [2022 Sea Level Rise Technical Report](#)
- NASA Earth Observatory: [Extreme Rainfall Leads to Midwest Flooding](#)
- NASA Earth Observatory: [A July of Extremes](#)
- PNSA: [Climate Endgame: Exploring catastrophic climate change scenarios](#)

NEWS

- [China halts climate, military ties over Pelosi Taiwan visit](#)
5 August 2022, Navy Times
- [Army ground vehicle lab researches different batteries in quest for electrified fleet](#)
4 August 2022, Breaking Defense
- [Navy failed to address environmental impact of Growler fleet expansion, judge rules](#)
4 August 2022, Navy Times
- [The U.S. made a breakthrough battery discovery – then gave the technology to China](#)
3 August 2022, NPR
- [New Zealand’s national climate plan includes possibly seeking higher ground](#)
3 August 2022, NPR
- [Naval Architect Selected for UC San Diego’s New California Coastal Hybrid-Hydrogen Research Vessel](#)
2 August 2022, Scripps Release
- [How the New Climate Bill Would Reduce Emissions](#)
2 August 2022, New York Times
- [Army prepares to test-drive tactical EVs](#)
2 August 2022, Climate Wire
- [Climate change expert advises government to encourage preparation](#)
1 August 2022, Government Matters
- [Yellow Card: Global Food Crisis Underscores Need for Systemic Security](#)
1 August 2022, Center for Climate & Security
- [How two 1-in-1,000 year rain events hit the U.S. in two days](#)
29 July 2022, The Washington Post
- [NRC To Issue Rule Certifying NuScale Small Modular Reactor](#)
29 July 2022, Nuclear Regulatory Commission Release
- [Climate Change is already fueling global migration. The world isn’t ready to meet people’s changing needs, experts say](#)
28 July 2022, PBS
- [A Congressional Climate Breakthrough](#)
28 July 2022, Rhodium Group
- [Without human-caused climate change, temperatures of 40 C in the UK would have been extremely unlikely](#)
28 July 2022, World Weather Attribution
- [Wildfire Pollution May Play a Surprising Role in the Fate of Arctic Sea Ice](#)
27 July 2022, Inside Climate News

- [Early warning: How Iraq can adapt to climate change](#)
19 July 2022, European Council on Foreign Relations
- [Implications of a Melting Arctic](#)
14 July 2022, Defense Priorities

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [State of the UK Climate 2021](#)
International Journal of Climatology, July 2022
- **Podcast:** [Energy, Climate and National Security: The New Map](#)
Common Ground Committee, 21 July 2022
- **Report:** [Understanding the Societal Challenges Facing Nuclear Power](#)
National Academies of Science, Engineering and Medicine, July 2022
- **Fact Sheet:** [White House Takes Action on Climate by Accelerating Energy Efficiency Projects Across the Federal Government](#)
White House Release, 3 August 2022
- **Fact Sheet:** [10 Ways the Biden-Harris Administration is Making America Resilient to Climate Change](#)
White House, 1 August 2022
- **Report Series from National Consortium for the Study of Terrorism and Responses to Terrorism**
 - [A Climate of Terror? Climate Change as an Indirect Contributor to Terrorism](#)
 - [A Climate of Terror? Climate Change as a Means for Terrorist Exploitation](#)
 - [A Climate of Terror? Climate Change as a Potential Ideological Driver of Terrorism](#)
- **Article:** [Collaborative climate modeling](#)
National Security Science, 24 July 2022
- **Report:** [China's Climate Challenge: Financing the Transition to Net Zero](#)
World Economic Forum, July 2022
- **Report:** [A Transatlantic Energy and Climate Pact Is Now More Necessary Than Ever](#)
Intereconomics, 25 July 2022

EVENTS

- [Moving Mountains: Energy, Climate and National Security in West Virginia](#)
9 August 2022 / Noon – 1:30 pm ET / 9 – 10:30 am PT / Virtual
American Security Project and University of Charleston
- [Communicating the Climate Crisis – Effective Messaging & Dispelling Disinformation](#)
12 August 2022 / 11 – 11:45 am ET / 8 – 8:45 am PT
American Security Project
- [Climate Conversations: Wildfire](#)
25 August 2022 / 3 – 4 pm ET / 12 – 1 pm PT

National Academies of Science, Engineering and Medicine

- **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 / Registration Link for USG available on request
- [National Adaptation Forum](#)
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- [The Role of AI in Responding to Climate Challenges](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[NEW]** [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual

OPPORTUNITIES

- [Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule](#)
Comments due 22 August 2022.
- [Funding Opportunity: Minerva Research Initiative's Defense Education and Civilian University Research Partnership](#)
White papers due 8 September 2022; Applications due 22 November 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine and a follow-up to the Inflation Reduction Act passed by the Senate last weekend.

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 12 August 2022

Special Section: Ukraine

- The Washington Post: [Putin's Ukraine War has Three Lessons for Global Food Supplies](#)
- American Security Project: [Russian Diplomatic Relations Tracker](#)
- Wall Street Journal: [Europe Is Turning to Coal. What Does That Mean for Climate Change?](#)
- BBC: [How Russia uses social media to steal sunflower seeds](#)
- UNSW Sydney: [Rise of renewables: How Ukraine war has changed global energy policies](#)
- International Politics & Society Journal: [War is a climate killer](#)
- Politico: [Gas wars: How Putin sent EU energy prices rocketing](#)
- BBC: [Four more grain ships leave Ukraine as hopes grow for export stability](#)

Special Section: Inflation Reduction Act

- Atlantic Council: [The Inflation Reduction Act places a big bet on alternative mineral supply chains](#)
- Environmental and Energy Study Institute: [Inflation Reduction Act Is Transformational and Sets Stage for Future Climate Action](#)
- Politico: [Historic climate bill to supercharge clean energy industry](#)
- Atlantic Council: [How to Build on the Inflation Reduction Act and incentivize truly clean energy](#)
- Climate One [podcast]: [The Inflation Reduction Act: What's in the Sausage?](#)
- Inside Climate News: [After 25 Years of Futility, Democrats Finally Jettison Carbon Pricing in Favor of Incentives to Counter Climate Change](#)

NEWS

- [The Arctic is heating up four times faster than the rest of the planet](#)
12 August 2022, Grist
- [DoD's push to electrify the battlefield is creating electricity demand problems it is not solving](#)
11 August 2022, Breaking Defense

- [DLA, Forest Service Work Together to Prep Firefighters for Busy Season](#)
9 August 2022, DOD Release
- [How are floods and droughts happening at the same time?](#)
9 August 2022, Vox
- [New California Law Allows State to Bypass Local Restrictions in Siting Large-Scale Renewables](#)
9 August 2022, Sabine Center for Climate Change Law
- [Defense Official Discusses New U.S. Sub-Saharan Strategy](#)
9 August 2022, DOD Release
- [Partner Forum Helps Cement Partnership Between NREL, Dallas Fort Worth International Airport](#)
8 August 2022, NREL Release
- [Declaring a Climate Emergency Won't Save the Planet – Energy Security Could](#)
8 August 2022, Just Security
- [58 of human infection diseases can be worsened by climate change, we scoured 77,000 studies to map the pathways](#)
8 August 2022, The Conversation
- [Drought Emergency in Mexico Rekindles Demand for Water Law Reform](#)
Inside Climate News, 5 August 2022
- [Austin Launches New Round of Discussions With Hemispheric Partners](#)
5 August 2022, DOD Release
- [Climate Change is an emergency. Biden should use his executive powers to do more](#)
5 August 2022, LA Times
- [The Making of a Climate General: An Interview with IMCCS Chair, Retired General Tom Middendorp](#)
4 August 2022, Center for Climate & Security
- [African climate diplomats reject African Union's pro-gas stance for Cop27](#)
4 August 2022, Climate Home News
- [UN warns two largest US water reservoirs at 'dangerously low levels'](#)
3 August 2022, The Hill
- [Why the military has an office dedicated to tracking the world's biggest blocks of ice](#)
3 August 2022, Sandboxx

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Video:** [Climate and politics drive tensions in the run up to the Kenyan elections](#)
International Crisis Group, 3 August 2022
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)

NPS Department of Oceanography, 1 August 2022

- **Online Resources:** [Read, Watch, Listen: CCS Across the Web](#)
Center for Climate & Security, 8 August 2022
- **Podcast:** [Climate Change and National Security with Erin Sikorsky](#)
Lawfare, 5 August 2022
- **Strategy:** [U.S. Strategy Toward Sub-Saharan Africa](#)
The White House, August 2022
- **Policy:** [NOAA Mitigation Policy for Trust Resources](#)
National Oceanic and Atmospheric Administration, July 2022
- **Report:** [National Significant Wildland Fire Potential Outlook](#) [monthly]
National Interagency Fire Center
- **Monthly Summaries:**
[Assessing the U.S. Climate in July 2022](#)
[July 2022 Global Climate Report](#)
NOAA National Centers for Environmental Information

EVENTS

- **[NEW] Update on IPCC Assessments and Insights into Intergovernmental Cooperation**
23 August 2022, 11 am – 12 pm ET / 8 am – 9 am PT / Virtual
Joint Meeting & Speaker Series Between the Resource Competition, Environmental Security, and Stability Group (RECESS) and the IC Environmental Security Working Group (ICESWG)
US GOV ONLY. Contact kristen.fletcher@nps.edu for link and log-in information.
- **[NEW] [Managing the Climate Crisis: Designing and Building for Floods, Heat, Drought, and Wildfire](#)**
23 August 2022 / 1:00 pm ET / 10:00 am PT
Smart Growth
- **[Climate Conversations: Wildfire](#)**
25 August 2022 / 3 – 4 pm ET / 12 – 1 pm PT
National Academies of Science, Engineering and Medicine
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American Security Project
- **[Project Launch: UK National Security and the Net Zero Transition](#)**
8 September 2022 / 1500 BST / 1000 EST / 0700 PST
Royal United Services Institute for Defence and Security Studies
- **2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**
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- [National Adaptation Forum](#)
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- **[NEW/CSN] Net Zero Briefing: Pathways to Net Zero for the Operational Navy**
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OPPORTUNITIES

- [Revisions and Confidentiality Determinations for Data Elements Under the Greenhouse Gas Reporting Rule](#)
Comments due 22 August 2022.
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White papers due 8 September 2022; Applications due 22 November 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine and a section on the signing of the Inflation Reduction Act into law.

For those interested in the ONR Panel on Climate on 3 August, resources are now available on the CSN webpage [here](#). You'll find a [resource document](#) with links to funding opportunities from Dr. Emily Shroyer and Dr. Mark Spector's presentation [slide deck](#).

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 19 August 2022

Special Section: Ukraine

- Peace News: [The Ukraine War is Contributing to a Dangerous Cycle of Hunger and Violence](#)
- Geopolitical Monitor: [Energy and Food Insecurity Will Outlive the Ukraine War](#)
- Washington Post: [What's Boosting Nuclear Power? War and Climate Change](#)
- Al Jazeera: [Austria commits to neutrality even as Russia destroys Ukraine](#)
- CNA: [Pandemic, war and climate change mean more in Southeast Asia go hungry](#)
- McKinsey & Company: [A reflection on global food security challenges amid the war in Ukraine and the early impact of climate change](#)
- Center for Strategic and International Studies: [Spotlight on Russia's Attack on a Ukrainian Marine Gas Turbine Supplier](#)

Special Section: Passage of Inflation Reduction Act

- The Verge: [With the Inflation Reduction Act, the US brings climate goals within reach](#)
- BBC: [US climate bill success masks scale of warming challenge](#)
- Bloomberg: [The Inflation Reduction Act Is a Climate Bill. Just Don't Call It One.](#)
- NOAA: [Statement from NOAA Administrator on signing of historic Inflation Reduction Act](#)
- Sabin Center for Climate Change Law: [Inflation Reduction Act Makes Oil and Gas Development on Federal Land Less Attractive](#)
- Politico: [Biden signs sweeping climate and health care bill into law](#)
- AP: [Scientists say new climate law is likely to reduce warming](#)
- Atlantic Council [Series of Articles]: [Inflation Reduction Act](#)
- Center for the Blue Economy [Video]: [Reflections on the Inflation Reduction Act](#)

NEWS

- [Europe's Scorching Summer Puts Unexpected Strain on Energy Supply](#)
18 August 2022, The New York Times

- [Water and Sabotage in Paradise: Greece's Hidden Climate Conflict](#)
17 August 2022, Center for Climate & Security
- [Deep Concern About Food Security in Eastern Africa](#)
17 August 2022, NASA Earth Observatory
- [How to bring nutrition into the climate tent](#)
17 August 2022, Devex
- [The Pentagon must prevent its mounting climate casualties](#)
16 August 2022, The Hill
- [Climate Solutions from the Ground Up: The Importance of Place-Based Approaches](#)
16 August 2022, New Security Beat
- [The Changing U.S. Federal Energy Landscape](#)
15 August 2022, American Security Project
- [UN member states meet in New York to hammer out high seas treaty](#)
15 August 2022, The Guardian
- [Climate Security Implications of the U.S. Inflation Reduction Act](#)
15 August 2022, Center for Climate & Security
- [Creating an Environment of Peace Means Avoiding Backdraft](#)
15 August 2022, New Security Beat
- [Climate Catastrophe Is Coming. But It's Not the End of the Story.](#)
14 August 2022, Politico
- [Thousands living on Hawaii Army base urged to slash electricity use due to grid failure](#)
13 August 2022, Stars and Stripes
- [Arctic Shipping Routes: Russia's Challenges and Uncertainties](#)
12 August 2022, The Barents Observer
- [Tracking 30 Years of Sea Level Rise](#)
11 August 2022, NASA Earth Observatory
- [China's Blue Book unveils growing impact of climate change in 2021](#)
9 August 2022, Meteorological Technology International

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [The Global Gateway: an overview](#)
Wilson Center, August 2022
- **Article:** [Arctic Navigation and Climate Change: Projections from Science for the Law of the Sea](#)
International Law Studies Journal, August 2022
- **Congressional Research Service Reports:**

- [Climate Liability Suits: Is There a Path to Federal Court?](#), 12 August 2022
- [The Carbon Cycle: Key Component of the Climate System, with Implications for Policy](#), 10 August 2022
- [Wildfire Statistics](#), 1 August 2022
- **Interview:** [The Future of Climate Security Scholarship: An Interview with Dr. Josh Busby](#)
Center for Climate & Security, 15 August 2022
- **Report:** [Serious Gaming: Grounding and Directing Climate Action](#)
The Hague Center for Strategic Studies, August 2022
- **Video:** [Communicating the Climate Crisis – Effective Messaging & Dispelling Disinformation](#)
American Security Project, August 2022
- **Visual Story:** [Weathering the Storm: Building Resilience in the Humanitarian Sector](#)
Devex, 3 August 2022
- **Video:** [Lessons from energy leaders](#)
MIT Energy Initiative, July 2022
- **Map:** [U.S. Drought Monitor](#)
National Drought Mitigation Center, August 2022
- **Report:** [China’s role in supplying critical minerals for the global energy transition](#)
Brookings, July 2022
- **Report:** [Food Insecurity and Drought](#)
Food Security and Nutrition Working Group, July 2022

EVENTS

- **Update on IPCC Assessments and Insights into Intergovernmental Cooperation**
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American Security Project

- [**Project Launch: UK National Security and the Net Zero Transition**](#)
8 September 2022 / 1500 BST / 1000 EST / 0700 PST
Royal United Services Institute for Defence and Security Studies
- [**\[NEW\] Consistent and Compelling: Maine's Model for Mitigating Climate Change**](#)
14 September 2022 / 4 – 5 pm ET / 1 – 2 pm PT / Virtual
American Security Project
- [**\[NEW\] Our climate future: US-Iceland clean energy summit**](#)
21 September 2022 / Washington DC & Virtual
Atlantic Council
- **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
US GOV ONLY. Contact kristen.fletcher@nps.edu for 21 Sept link and log-in information or to attend 22 Sept classified session via VTC on NPS campus.
- [**\[NEW\] Regional Clean Energy Outlook Conference: Advancing climate and security goals**](#)
10 – 11 October 2022 / Istanbul, Turkey
Atlantic Council
- [**National Adaptation Forum**](#)
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- [**\[CSN\] Net Zero Briefing: Pathways to Net Zero for the Operational Navy**](#)
25 October 2022 / 1200 – 1300 PT / Virtual
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17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- [**Arctic Frontiers 2023**](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers

OPPORTUNITIES

- [**\[NEW\] National Climate Assessment Call for Scenarios**](#): The U.S. Fifth National Climate Assessment (NCA5) is seeking scenarios for its decarbonization scenario database. Information on the assessment is available [here](#). Emissions scenarios are sought that:
 - Focus on reaching net-zero CO₂ or all greenhouse gas emissions across the economy (and corresponding reference/baseline scenarios); and
 - Cover the United States through at least 2050.**Scenarios due 31 October 2022.**

- **[\[NEW\] National Academies of Sciences, Engineering and Medicine Call for Nominations](#)**: Nominations are sought for an upcoming rotation in membership of the Board on Atmospheric Sciences and Climate (BASC) to be conducted in Fall 2022. BASC is the focal point within the National Academies of Sciences, Engineering, and Medicine for activities related to the atmospheric, meteorological, and climate sciences, including issues related to technology, policy, applications, and services. **Nominations due 6 September 2022.**
- **[Funding Opportunity: Minerva Research Initiative's Defense Education and Civilian University Research Partnership](#)**
White papers due 8 September 2022; Applications due 22 November 2022.

Dear CSN Members,

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

A few notes:

- For those interested in the **Maritime Decarbonization** talk by David Hume on 2 August, the [video is available here](#).
- For those at NPS, if you are interested in **offering climate and energy-related feedback on the [Applied Design Center for Technology](#)**, reply to this message and I'll get you connected to that effort.

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 26 August 2022

Special Section: Ukraine

- AP News: [Finland, Sweden offer NATO an edge as rivalry warms up north](#)
- New Security Beat: [Agricultural Land in Russian Territorial and Geopolitical Ambitions](#)
- Forbes: [Europe's Markets And Energy Security Disrupted By Russian Sanctions](#)
- EU Observer: [Does EU's post-Ukraine dash-for-gas square with green goals?](#)
- Alarabiya News: [Ukraine war chance for faster green transition but need Saudi Arabia](#)
- City A.M.: [Navigating systemic risks: Ukraine, climate and crypto](#)

NEWS

- [U.S. Should Not Surrender Clean Energy Technology to China, DOD Official Says](#)
25 August 2022, DOD Release
- [California to cover canal with solar panels in experiment to fight drought, climate change](#)
25 August 2022, Reuters
- [Better climate models would build in political and personal decisions](#)
25 August 2022, The Washington Post
- [Droughts and forest fires: Europe's new climate security reality](#)
24 August 2022, Planetary Security Initiative
- [Leveraging Hydropower for Peace](#)
24 August 2022, New Security Beat

- [Mega-Polluter Australia Is Finally Becoming a Green Superpower](#)
24 August 2022, Bloomberg
- ['We Need to Own the Heat The Way We Now Own Night,' Pentagon Climate Leader says](#)
24 August 2022, Defense One
- [Growing building sector carbon emissions threaten 2050 net-zero goal, report warns](#)
24 August 2022, Utility Dive
- [A new concept for low-cost batteries](#)
24 August 2022, MIT News reported
- [California's timber industry is calling on the military to help control fires](#)
23 August 2022, The Washington Post
- [The New Methane Emissions Charge: One \(Limited But Important\) Stick in the Inflation Reduction Act](#)
23 August 2022, Sabin Center for Climate Change Law
- [From Borno to Aswan: Where Development, Climate and Conflict are Interlinked](#)
23 August 2022, The Cairo Review of Global Affairs
- [This summer shows America must prioritize climate resilience](#)
22 August 2022, The Hill
- [Renewables won't spell the end of energy geopolitics](#)
22 August 2022, Australian Strategic Policy Institute
- [Newest cause for climate optimism? The U.S. rivalry with China](#)
20 August 2022, Politico
- [Meet the U.N.'s New Caribbean-Born Climate Czar](#)
19 August 2022, Foreign Policy
- [Climate Complacency Is No Option for Defence and National Security](#)
18 August 2022, Relief Web
- [Federal judges deal the oil industry another setback in climate litigation](#)
18 August 2022, NPR
- [Biden's Historic Climate Bill Needs Smart Foreign Policy](#)
17 August 2022, Foreign Policy
- [Caribbean nations should push for climate finance at COP27, Bahamas PM says](#)
16 August 2022, Reuters

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Website:** [COP27 / Conference of the Parties 27 in Egypt](#)
United Nations
- **Article:** [Probabilistic projections of increased heat stress driven by climate change](#)

Communications Earth & Environment, 25 August 2022

- **Article:** [Remote sensing and AI for building climate adaptation applications](#)
Results in Engineering, September 2022
- **Podcast:** [Will Sustainable Aviation Ever Take Off?](#)
Climate One, 19 August 2022
- **Web Resource:** [Climate Security Practices Worldwide](#)
Planetary Security Initiative, August 2022
- **Article:** [On the History and Future of 100% Renewable Energy Systems Research](#)
IEEE Access, July 2022
- **Audio:** [Africa Climate Week and why it matters in the lead-up to COP27 later this year](#)
Mail & Guardian, 22 August 2022

EVENTS

- [National Security, Climate Resilience & Environmental Protection: A Conversation with Congressman Scott Peters](#)
31 August 2022 / 12 – 12:30 pm ET / 9 – 9:30 am PT / Virtual
American Security Project
- [Project Launch: UK National Security and the Net Zero Transition](#)
8 September 2022 / 1500 BST / 10:00 am ET / 7:00 am PT
Royal United Services Institute for Defence and Security Studies
- [The Role of Manufacturing in Industrial Decarbonization](#)
9 September 2022 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT
National Academies of Science, Engineering and Medicine
- **[NEW]** [2022 – 2023 Better Buildings Webinar Series](#)
Begins 13 September 2022 / 11 am – 12 pm ET / 8 – 9 am PT
Department of Energy
- [Consistent and Compelling: Maine’s Model for Mitigating Climate Change](#)
14 September 2022 / 4 – 5 pm ET / 1 – 2 pm PT / Virtual
American Security Project
- [Our climate future: US-Iceland clean energy summit](#)
21 September 2022 / Washington DC & Virtual
Atlantic Council
- **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
US GOV ONLY. Contact kristen.fletcher@nps.edu for 21 Sept link and log-in information or to attend 22 Sept classified session via VTC on NPS campus.
- [Regional Clean Energy Outlook Conference: Advancing climate and security goals](#)

10 – 11 October 2022 / Istanbul, Turkey
Atlantic Council

- [115th U.S. Arctic Research Commission Meeting](#)
24-25 October 2022 / Anchorage, AK
Interagency Arctic Research Policy Committee
- [National Adaptation Forum](#)
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[CSN] Net Zero Briefing: Pathways to Net Zero for the Operational Navy**
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network / Link and details forthcoming
- [The Role of AI in Responding to Climate Challenges](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers

OPPORTUNITIES

- **[NEW] [Homeland Defense and Security Information Analysis Center Call for Alternative Maritime Fuel Sources](#)**
Input due 29 August 2022.
- [National Academies of Sciences, Engineering and Medicine Call for Nominations](#)
Nominations due 6 September 2022.
- **[NEW] [U.S. Global Change Research Program Call for Input](#)**
Congress has directed the creation of a five-year scientific assessment of solar and other rapid climate interventions in the context of near-term climate risks and hazards. **Input due 9 September 2022.**
- [National Climate Assessment Call for Scenarios](#)
Scenarios due 31 October 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine. There are several articles on recent changes in the U.S. (and California) on energy policy along with articles on the severe flooding in Pakistan.

Thanks to those who send in listings for inclusion in the weekly update.

Kristen

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NPS Climate & Security Network Weekly Update: 2 September 2022

Special Section: Ukraine

- Bloomberg: [Putin's Energy Squeeze Tests European Resolve](#)
- Climate One [podcast]: [Ukraine and the Middle East: Climate Action in Conflict Zones](#)
- Bloomberg: [Putin's Main War Success May Be Global Turmoil](#)
- Atlantic Council: [European energy sovereignty is tied to Ukraine's Independence](#)
- International Monetary Fund: [A Looming Food Crisis](#)

NEWS

- [The next energy frontier: A race for solar power from space?](#)
2 September 2022, Breaking Defense
- [Step Aside California, the South Could Become America's Green Hub](#)
2 September 2022, Inside Climate News
- [Drilling setbacks, net-zero and a nuclear lifeline. Here's what just happened in California.](#)
2 September 2022, Grist
- [Bolivia and Lithium: Can slow and steady win the race?](#)
2 September 2022, New Security Beat
- [Is the Paris Agreement Working?](#)
1 September 2022, Inside Climate News
- [U.S. is seriously underestimating the consequences of CO2](#)
1 September 2022, Reuters
- [Costs of climate change far surpass government estimates, study says](#)
1 September 2022, Washington Post
- [What China's Heatwave from hell Tells us About the Future of Climate Action](#)
1 September 2022, New Security Beat

- [Officials and volunteers struggle to respond to catastrophic flooding in Pakistan](#)
1 September 2022, NPR
- [How Bad Governance Exacerbated Pakistan's Flooding](#)
1 September 2022, Foreign Policy
- [Why Pakistan's record-breaking monsoon season is so devastating](#)
31 August 2022, Washington Post
- [Congress has acknowledged climate change 87 times from 1978 through 2022](#)
31 August 2022, Sabin Center for Climate Change Law
- [U.S. Army steps up efforts to go green as risks from climate change rise](#)
31 August 2022, CBS News
- [This Hot Summer Is One of the Coolest of the Rest of Our Lives](#)
31 August 2022, Scientific American
- [Greenland's Melting Ice Has Locked In 10 Inches of Ocean Rise, Study Finds](#)
30 August 2022, Defense One
- [Climate Security at USAID: \(Re\)defining an Integrative Issue](#)
30 August 2022, New Security Beat
- [Air Force demonstrates defense-wide leadership through energy resilience readiness exercises](#)
29 August 2022, Air Force Release
- [Military microgrids to the rescue in California and New Mexico](#)
29 August 2022, Microgrid Knowledge
- [Climate change will 'fundamentally' shift how Canada, allies handle Arctic: NATO chief](#)
26 August 2022, Global News
- [Establishing an Ambassador-at-Large for the Arctic Region](#)
26 August 2022, Department of State Release
- [The Crisis of the Century: How the United States Can Protect Climate Migrants](#)
26 August 2022, Council on Foreign Relations
- [Wind and solar power aren't enough to combat climate change. We need to incentivize firm renewables, too.](#)
26 August 2022, Utility Dive
- [U.S. Should Not Surrender Clean Energy Technology to China, DOD Official Says](#)
25 August 2022, DOD Release
- [The Future of California's Last Nuclear Power Plant](#)
23 August 2022, New York Times

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Issue Brief:** [The Growth in Greenhouse Gas Emissions from Commercial Aviation](#)
Environmental and Energy Study Institute, June 2022
- **Article:** [Greenland ice sheet climate disequilibrium and committed sea-level rise](#)
Nature Climate Change, 29 August 2022
- **Podcast:** [Bridging the Great American Divide](#)
Climate One, 2 September 2022
- **Report:** [International report on 2021 climate: record-high greenhouse gases, ocean heat and sea level](#)
NOAA / Climate.gov, 30 August 2022
- **Strategy:** [National Strategy to Develop Statistics for Environmental-Economic Decisions](#)
White House, 18 August 2022
- **White Paper:** [Climate Science in Adaptation Litigation in the U.S.](#)
Sabin Center for Climate Change Law, August 2022
- **Federal Policy:** [Implementing Instructions for Executive Order 14057, Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability](#)
White House Council on Environmental Quality, August 2022
- **Podcast:** [The Climate Conversation Podcast](#)
Environmental and Energy Study Institute, August 2022
- **Tool:** [Global Water Monitor](#)
NASA and partner agencies, August 2022

EVENTS

- **[NEW] MIT Conference on Mining, Environment and Society**
7-9 September 2022 / 10 am – 1:30 pm ET / 7 – 10:30 am PT / Virtual
MIT Environmental Solutions Initiative
- **[Project Launch: UK National Security and the Net Zero Transition](#)**
8 September 2022 / 1500 BST / 10:00 am ET / 7:00 am PT
Royal United Services Institute for Defence and Security Studies
- **[The Role of Manufacturing in Industrial Decarbonization](#)**
9 September 2022 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT
National Academies of Science, Engineering and Medicine
- **[2022 – 2023 Better Buildings Webinar Series](#)**
Begins 13 September 2022 / 11 am – 12 pm ET / 8 – 9 am PT
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- **[Consistent and Compelling: Maine’s Model for Mitigating Climate Change](#)**
14 September 2022 / 4 – 5 pm ET / 1 – 2 pm PT / Virtual
American Security Project
- **[Our climate future: US-Iceland clean energy summit](#)**
21 September 2022 / Washington DC & Virtual

Atlantic Council

- **[\[NEW\] Climate Conversations: The Grid](#)**
21 September 2022 / 4 – 5 pm ET / 1 – 2 pm PT / Virtual
National Academies of Science, Engineering and Medicine
- **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
US GOV ONLY. Contact kristen.fletcher@nps.edu for 21 Sept link and log-in information or to attend 22 Sept classified session via VTC on NPS campus.
- **[Regional Clean Energy Outlook Conference: Advancing climate and security goals](#)**
10 – 11 October 2022 / Istanbul, Turkey
Atlantic Council
- **[115th U.S. Arctic Research Commission Meeting](#)**
24-25 October 2022 / Anchorage, AK
Interagency Arctic Research Policy Committee
- **[National Adaptation Forum](#)**
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[\[CSN\] Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)**
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- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers

OPPORTUNITIES

- **[National Academies of Sciences, Engineering and Medicine Call for Nominations](#)**
Nominations due 6 September 2022.
- **[U.S. Global Change Research Program Call for Input](#)**
Input due 9 September 2022.
- **[National Climate Assessment Call for Scenarios](#)**
Scenarios due 31 October 2022.

Dear CSN Members,

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

A few notes:

First, I'm delighted to **congratulate Dr. Douglas Van Bossuyt**, Assistant Professor in the Systems Engineering department, who is the recipient of the **2022 Richard W. Hamming Teaching Award** at NPS. Dr. Van Bossuyt is a member of the CSN Planning Team and has been integral in shaping the CSN and moving it forward. The award is in recognition of his exceptional contributions in and out of the classroom – congratulations!!

Also, **for those at NPS**, colleagues at the U.S. Coast Guard have invited us to attend a **Coast Guard EVERGREEN event at Argonne National Lab (Chicago) on 17 November**. It's part of the Maritime Risk Symposium and will be scenario-based and focused on climate change. Just email me if you're interested and I'll put you in touch with the organizers.

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 9 September 2022

Special Section: Ukraine

- Wall Street Journal: [Climate-Change Fight Dies \(Again\) in Zaporizhzhia](#)
- NY Times: [Russia Will Not Restart Gas Flow to Germany as Planned](#)
- Washington Post: [Heat pumps take off in coal-loving Poland amid Ukraine war](#)
- BBC [video]: [Ros Atkins On... how inflation, Ukraine and drought are linked](#)
- World Bank Group: [Climate Change Knowledge Portal on Ukraine](#)
- Forbes: [Decades of Human Progress Set Back by Covid, Climate Change and Ukraine War, UN Warns](#)
- Center for Security Studies: [When Crises Collide: Energy, Security and Climate Change](#)

NEWS

- [Rising Seas could swallow millions of U.S. acres within decades](#)
8 September 2022, Washington Post
- [Climate Change Could Worsen Supply Chain Turmoil](#)
8 September 2022, The New York Times
- [US Navy increasingly factoring climate change into exercises](#)
7 September 2022, Navy Times
- [This year's hurricane season has been eerily quiet. Will it last?](#)

7 September 2022, Grist

- [China reports ‘most severe’ heatwave and the third driest summer on record](#)
7 September 2022, The Guardian
- [India, Bangladesh sign water-sharing deal, in boost to ties](#)
6 September 2022, CTV News
- [California ‘mega storm’ more likely with climate change \[video\]](#)
6 September 2022, PBS Newshour
- [Could the Drying Up of Europe’s Great Rivers Be the New Normal?](#)
6 September 2022, Yale Environment 360
- [‘Climate change will lead to war’, warns Belfast UN conflict specialist](#)
6 September 2022, The Belfast Telegraph
- [Germany to delay phase-out of nuclear plants to shore up energy security](#)
5 September 2022, The Guardian
- [How Biden could help U.S. reach climate goals on his own](#)
5 September 2022, The Washington Post
- [A New Constitution in Chile Would Provide Groundbreaking Protections for the Rights of Nature, if Voters Approve It](#)
4 September 2022, Inside Climate News
- [The Earth’s Battle with Calamitous Climate Change](#)
3 September 2022, Bloomberg
- [Climate Justice and Loss and Damage in the Pakistan Flood Crisis](#)
2 September 2022, Lawfare
- [Collapse of G20 talks in Bali spark fears of ‘backtracking’ on climate pledges](#)
2 September 2022, Climate Home News
- [Biden climate advisor Gina McCarthy leaving White House, John Podesta joining staff](#)
2 September 2022, The Hill
- [Some G20 nations ‘backsliding’ on climate targets, says UK envoy](#)
1 September 2022, Rappler
- [Closing nuclear generation amounts to running in place on climate](#)
31 August 2022, Atlantic Council
- [Europe plan for floating gas terminals raises climate fears](#)
31 August 2022, AP News
- [Climate vulnerability and food insecurity in MENA should be priorities for US policymakers](#)
31 August 2022, Atlantic Council

- [**The Just Energy Transition Partnership with South Africa will hinge on domestic reform**](#)
30 August 2022, Atlantic Council
- [**ABS launches new sustainability guide for greener offshore operations**](#)
29 August 2022, Marine Log
- [**The New Climate Narrative**](#)
25 August 2022, New America

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [**Examining Supply-Side Options to Achieve 100% Clean Electricity by 2035**](#)
National Renewable Energy Lab, August 2022
- **Report:** [**Climate Change & National Security: Implications for the Military**](#)
Army University Press, August 2022
- **Report:** [**NATO and Climate Change: A Climatized Perspective on Security**](#)
Belfer Center for Science and International Affairs, August 2022
- **Report:** [**State of the Climate in 2021**](#)
American Meteorological Society, August 2022
- **Online Resource:** [**Read, Watch, Listen: CCS Across the Web**](#)
Center for Climate & Security, August 2022
- **Briefer:** [**Papua New Guinea, Climate and Security**](#)
Center for Climate & Security, September 2022
- **Report:** [**Federal Fisheries Management: Opportunities Exist to Enhance Climate Resilience**](#)
U.S. Government Accountability Office, August 2022
- **Report:** [**Resilience of People and Ecosystems under Climate Stress \(draft\)**](#)
The Pontifical Academy of Sciences, 23 August 2023
- **Website:** [**Climate Mapping for Resilience and Adaptation**](#)
8 September 2022, U.S. Climate Resilience Toolkit, U.S. Global Change Research Program
- **Issue Brief:** [**Re-imagining Climate Finance**](#)
Observer Research Foundation, September 2022
- **Paper:** [**Climate Complacency is no Option for Defence and National Security**](#)
S. Rajaratnam School of International Studies (Singapore), August 2022
- **Report:** [**The Africa Climate Action Performance Report**](#)
Observer Research Foundation, August 2022
- **Article:** [**ERDC researchers investigate how climate change impacts permafrost**](#)
The Corps Environment Magazine, August 2022 (article on page 41)
- **Video:** [**Why beavers matter as the planet heats up**](#)

Vox, 1 September 2022

EVENTS

- [**\[NEW\] Research Funders and the Promotion of Quality in Research: From Principles to Practice**](#)
12 September 2022 / 5 – 8 pm ET / Washington, DC
National Academy of Sciences
- [**\[NEW\] Report launch: Alternative battery chemistries and diversifying clean energy supply chains**](#)
13 September 2022 / 4 pm ET / 1 pm PT / Virtual
Atlantic Council
- [**2022 – 2023 Better Buildings Webinar Series**](#)
Begins 13 September 2022 / 11 am – 12 pm ET / 8 – 9 am PT / Virtual
Department of Energy
- [**\[NEW\] Environmental Justice & Sustainability Speaker Series**](#)
Runs 13 September to 13 December, 2022 (Tuesdays) / Virtual
Center for the Blue Economy
- [**\[NEW\] What Congress Needs to Know About Corporate Climate Risk, Resilience and Disclosures**](#)
20 September 2022 / 11 – 12:30 ET / 8 – 9:30 PT / Virtual
Environmental and Energy Study Institute
- [**Our climate future: US-Iceland clean energy summit**](#)
21 September 2022 / Washington DC & Virtual
Atlantic Council
- [**Climate Conversations: The Grid**](#)
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- [**2022 Environmental Security Summit: Building Back Better: Linking Critical Infrastructure, Environmental Security, and Stability**](#)
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- **[CSN] Net Zero Briefing: Pathways to Net Zero for the Operational Navy**
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17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[NEW] [Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[Funding Opportunity in Support of the Hydrogen Shot and a University research Consortium on Grid Resilience](#)**
Office of Energy Efficiency and Renewable Energy (EERE), Department of Energy
Concept papers due 23 September 2022.
- **[NEW / NPS] Multidisciplinary Studies and Analysis in Support of DoN Climate Change Priorities**
This opportunity is open to faculty and researchers at NPS. The goals of this effort will link climate security research into a coordinated effort to support ONR and DON objectives in climate and sustainability, recruit motivated students and faculty to address climate security issues, fill gaps in the body of knowledge, and discover innovative approaches to climate security challenges. This call is for topics related to Operational Decarbonization and Energy Resilience. The effort is led at NPS by the Energy Academic Group and the lead sponsor is the Office of Naval research. Contact me for more information: kristen.fletcher@nps.edu.
White papers due 30 September.
- **[NEW] [Center for Climate & Security Hiring a Deputy Director](#)**
Council on Strategic Risks; reviewing applications on a rolling basis
- **[National Climate Assessment Call for Scenarios](#)**
Scenarios due 31 October 2022.

Dear CSN Members,

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

Also, I'm pleased to share an opening in the Energy Academic Group to work with the Climate Security Pillar. Please see the announcement in Opportunities below.

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 16 September 2022

Special Section: Ukraine

- PRIO Blogs: [The Ukraine Crisis and Its Impact on Africa's Geopolitics](#)
- Al Jazeera: [Do not backtrack on climate goals amid energy crunch, UN tells EU](#)
- Foreign Affairs: [Ukraine Holds the Future: The War Between Democracy and Nihilism](#)
- Forbes: [Squandering Energy Independence In A Chaotic World](#)
- Foreign Policy: [Every Recent Oil and Food Price Shock Bears Putin's Fingerprints](#)
- Politico: [The Green Dream to Rebuild a Sustainable Ukraine from the Rubble of War](#)
- American Security Project: [Despite Ukraine's Military Success, it's too Early to Celebrate](#)
- New York Times: [Putin Will Make People Choose Between Heating or Eating This Winter](#)
- The Japan Times: [Ukraine war highlights private sector's role in conflict](#)
- Huffington Post: [War Put Ukraine's Biggest Nuclear Plant At Risk. Will It Threaten Atomic Energy's Revival?](#)
- Financial Times: [The ancient subarctic forests at risk from climate change and war](#)

NEWS

- [It was set to be the Nebraska's largest wind project. Then the military stepped in.](#)
16 September 2022, Flatwater Free Press (NE)
- [Scientists Say Pakistan's Extreme Rains Were Intensified by Global Warming](#)
16 September 2022, Inside Climate News
- [Improving national disaster preparedness and resilience](#)
16 September 2022, Security Magazine
- [A third of Pakistan is underwater and no one is talking about it](#)
13 September 2022, The Post (Athens)
- [First climate lawsuit against Russian government launched over emissions](#)

13 September 2022, The Guardian

- [Forest Service resume prescribed fire program, but some fear new rules will delay projects](#)
13 September 2022, LA Times
- [Why heat wave warnings are falling short in the U.S.](#)
13 September 2022, NPR
- [Food Security as a Driver for Sustainable Peace in Kenya](#)
12 September 2022, New Security Beat
- [New Jersey military base to install microgrid as part of \\$140 million energy project](#)
12 September 2022, Microgrid Knowledge
- [Water governance in Iraq: Enabling a gamechanger](#)
12 September 2022, Planetary Security Initiative
- [Europe To Tackle Extreme Weather and Climate Change With Next Generation Satellites](#)
10 September 2022, Forbes
- [The world may have already crossed 5 climate tipping points](#)
9 September 2022, Grist
- [No September on record in the West has seen a heat wave like this](#)
9 September 2022, New York Times
- [Egypt Is Hosting COP27. Can It Become Africa's Climate Champion?](#)
8 September 2022, Council on Foreign Relations
- [Just a small rise in Earth's temperature could cause irreversible ecosystem and weather changes](#)
8 September 2022, Science
- ['Nothing left to burn': Wildfires blaze through the Arctic](#)
8 September 2022, Al Jazeera

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Climate Change Risks to National Security](#)
U.S. Government Accountability Office, 13 September 2022
- **Executive Order:** [Executive Order on the Implementation of the Energy and Infrastructure Provisions of the Inflation Reduction Act of 2022](#)
White House, 12 September 2022
- **Article:** [Drivers and distribution of global ocean heat uptake over the last half century](#)
Nature Communications, 7 September 2022
- **Article:** [Empirically grounded technology forecasts and the energy transition](#)
Joule, September 2022

- **Podcast: [Pakistan's Flood Disaster and National Security](#)**
Lawfare, 12 September 2022
- **Report: [Climate and Energy Implications of Crypto-Assets in the United States](#)**
White House Office of Science and Technology Policy, September 2022
- **Report: [Pakistan's 2022 Floods and Implications for U.S. Interests](#)**
Congressional Research Service, 12 September 2022
- **Monthly Report: [Assessing the U.S. Climate in August 2022](#)**
NOAA National Centers for Environmental Information, 9 September 2022
- **Database: [Database of Congress' Acknowledgements of Climate Change](#)**
Sabin Center for Climate Change law, September 2022
- **Fact Sheet: [U.S. Engagement in the Pacific Islands: 2022 Pacific Islands Conference of Leaders](#)**
U.S. Department of State, 13 September 2022
- **Podcast: [No Going Back: EVs and Clean Tech Tipping Points With Albert Cheung](#)**
Climate One, 9 September 2022
- **Paper: [Climate Science in Adaptation Litigation in the U.S.](#)**
Sabin Center for Climate Change Law, August 2022
- **Report: [Alternative Battery Chemistries and Diversifying Clean Energy Supply Chains](#)**
Atlantic Council, 13 September 2022

EVENTS

- **[What Congress Needs to Know About Corporate Climate Risk, Resilience and Disclosures](#)**
20 September 2022 / 11 – 12:30 ET / 8 – 9:30 PT / Virtual
Environmental and Energy Study Institute
- **[Our climate future: US-Iceland clean energy summit](#)**
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21-22 September 2022 / Virtual / Hybrid
IC Environmental Security Working Group & Partners; Co-hosted by NPS
US GOV ONLY. Contact kristen.fletcher@nps.edu for 21 Sept link and log-in information or to attend 22 Sept classified session via VTC on NPS campus.
- **[NEW] [Nexus Between Climate Change and National Security](#)**
27 September 2022 / 10 PT – 11:30 PT / Virtual

FEMA Region 2 / *Features CSN Member Katelin Wright*

- [Regional Clean Energy Outlook Conference: Advancing climate and security goals](#)
10 – 11 October 2022 / Istanbul, Turkey
Atlantic Council
- [115th U.S. Arctic Research Commission Meeting](#)
24-25 October 2022 / Anchorage, AK
Interagency Arctic Research Policy Committee
- [National Adaptation Forum](#)
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[CSN] Net Zero Briefing: Pathways to Net Zero for the Operational Navy**
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network / Link and details forthcoming
- [The Role of AI in Responding to Climate Challenges](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[NEW] [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)**
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [Funding Opportunity in Support of the Hydrogen Shot and a University research Consortium on Grid Resilience](#)
Office of Energy Efficiency and Renewable Energy (EERE), Department of Energy
Concept papers due 23 September 2022.
- **[NPS] Multidisciplinary Studies and Analysis in Support of DoN Climate Change Priorities**
This opportunity is open to faculty and researchers at NPS. The goals of this effort will link climate security research into a coordinated effort to support ONR and DON objectives in climate and sustainability, recruit motivated students and faculty to address climate security issues, fill gaps in the body of knowledge, and discover innovative approaches to climate security challenges. This call is for topics related to Operational Decarbonization and Energy Resilience. The effort is led at NPS by the Energy Academic Group and the lead sponsor is the Office of Naval Research. Contact me for more information: kristen.fletcher@nps.edu.
White papers due 30 September.

- **[\[NPS\] EAG Climate Security Pillar Hiring Faculty Associate - Research](#)**
Applications due 7 October 2022.
- **[Center for Climate & Security Hiring a Deputy Director](#)**
Council on Strategic Risks; reviewing applications on a rolling basis
- **[National Climate Assessment Call for Scenarios](#)**
Scenarios due 31 October 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine and a special section on the Kigali Amendment to the Montreal Protocol aimed at phasing down the use of hydrofluorocarbons. The Senate ratified it this week in a 69-27 vote.

Thanks to those who are contributing information to the weekly update!

Kristen

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NPS Climate & Security Network Weekly Update: 23 September 2022

Special Section: Ukraine

- AP News: [Ukraine war thrusts German climate action into spotlight](#)
- Balkan Insight: [Ukraine war exposes extent of Poland's obsolete energy policies](#)
- AP News: [Russia war, virus and climate hurting world's poorest](#)
- Australian Strategic Policy Institute: [The geopolitical implications of Russia's invasion of Ukraine](#)
- Center for European Reform: [The EU's Energy Plan for a Difficult Winter: What Are the Options?](#)
- Alarabiya News: [War in Ukraine, climate change hit Africa: Nigeria's Buhari](#)

Special Section: Kigali Amendment

- UN Treaty Collection: [Amendment Text & Participants](#)
- White House: [Statement by President Joe Biden on Senate Ratification of the Kigali Amendment to the Montreal Protocol](#)
- State Department: [U.S. Ratification of the Kigali Amendment](#)
- Politico: [Senate approves first climate treaty in decades](#)
- New York Times: [Senate Ratifies Pact to Curb a Broad Category of Potent Greenhouse Gases](#)
- E&E News: [Why Republicans support Kigali](#)

NEWS

- [Navy pilot program to plug ships into shore-based infrastructure in new deal with Port of San Diego](#)
22 September 2022, Breaking Defense
- [The U.S. Military Is Buying Electric Jet-ski Robots](#)
22 September 2022, Defense One
- [The Interwoven Roots of Systemic Food Insecurity in Palestine](#)
21 September 2022, Center for Climate & Security

- [Storm Proofing Military Bases](#)
NBC News, 21 September 2022
- [U.S. Navy and Port of San Diego Sign First-of-its-Kind Agreement to Generate Millions for Electrification Projects around San Diego Bay](#)
20 September 2022, Port of San Diego Release
- [Climate change, conflict decimate Syria's grain crop](#)
20 September 2022, Reuters
- [Climate Change, Political Instability, Economic Crisis: Is Pakistan A Failing State?](#)
20 September 2022, The Friday Times
- [Legal Action in the UK in a Time of Climate Crisis](#)
20 September 2022, Sabin Center for Climate Change Law
- [Denmark becomes the first UN member to pay for 'loss and damage' from climate change](#)
20 September 2022, The Washington Post
- [Hurricane Fiona threatens Puerto Rico's fragile recovery](#)
19 September 2022, Grist
- [Millions are displaced each year by climate change. José Andrés, Leon Panetta and others are teaming up to try to help](#)
19 September 2022, CBS News
- ['Near persistent' natural disasters placing intense pressure on Australian defence force](#)
18 September 2022, The Guardian
- [DoD's new climate drill: Kill the lights, see what happens](#)
16 September 2022, E&E News
- [In Pakistan, 33 Million People Have Been Displaced by Climate-Intensified Floods](#)
16 September 2022, Inside Climate News
- [Potential new answer to the drought: floating desalination systems off the Central, South Coasts?](#)
15 September 2022, KCLU
- [An EV With 600 Miles of Range Is Tantalizingly Close](#)
15 September 2022, Inside Climate News
- [The US doesn't know where its critical minerals are. AI could help find them.](#)
11 September 2022, Protocol
- [Towards A Greek Arctic Policy? The Pathway for a Mediterranean State to the Arctic](#)
6 September 2022, The Arctic Institute

REPORTS, PUBLICATIONS & OTHER RESOURCES

- Podcast: [The Inflation Reduction Act Passed. Now What?](#)

Climate One, 23 September 2022

- **Report:** [China's National Climate Change Adaptation Strategy 2035](#)
Center for Security and Emerging Technology, 29 August 2022
- **Report:** [Climate Change: Enhancing Federal Resilience](#)
U.S. Government Accountability Office, September 2022
- **Report:** [Coast Guard Polar Security Cutter \(Polar Icebreaker\) Program: Background and Issues for Congress](#)
Congressional Research Service, 30 August 2022
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
NPS Department of Oceanography, 1 September 2022
- **Report:** [August 2022 Global Climate Report](#)
NOAA National Centers for Environmental Information, September 2022
- **Policy Brief:** [Advancing European Union Action to Address Climate-related Security Risks](#)
Stockholm International Peace Research Institute, September 2022
- **Policy Brief:** [Europe's Energy and Resource Challenge: The Arctic is Part of the Solution](#)
Egmont Institute, September 2022
- **Paper:** [The Role of Global Value Chains in Outsourcing Greenhouse Gas Emissions](#)
Economic Research Forum, August 2022
- **Book:** [Hurricane Risk in a Changing Climate](#)
Springer, October 2022
- **Article:** [Getting to 100%: Six strategies for the challenging last 10%](#)
Joule, 21 September 2022
- **Briefer:** [The Security Implications of the Pakistan Floods](#)
Center for Climate & Security, 19 September 2022
- **Report:** [Hunger in a Heating World: How the climate crisis is fueling hunger in an already hungry world](#)
Oxfam America, 16 September 2022
- **Report:** [Drought Impacts on Hydroelectric Power Generation in the Western United States](#)
Pacific Northwest National Laboratory, September 2022
- **Report:** [800,000 Years of Climate Risk](#)
Federal Reserve Bank of New York, September 2022
- **Report:** [The Cost of Extreme Weather](#)
The McKell Institute, September 2022
- **Report:** [The "Energy Transition" Delusion: A Reality Reset](#)

Manhattan Institute, 30 August 2022

- **Report: [The Role of Engineering to Address Climate Change](#)**
NSF Engineering Research Visioning Alliance, September 2022

EVENTS

- **[NEW] [The GHG Reduction Fund in the IRA: Developing a national green bank to support an equitable energy transition](#)**
26 September 2022 / 4:00 pm ET / 1:00 pm PT / Virtual
Atlantic Council
- **[Nexus Between Climate Change and National Security](#)**
27 September 2022 / 10 PT – 11:30 PT / Virtual
FEMA Region 2 / *Features CSN Member Katelin Wright*
- **[NEW] [Climate Change and the Potential for the Weaponization of Water](#)**
27 September 2022 / 11 – Noon ET / 8 – 9 am PT / Washington DC & Virtual
National Academies of Science, Engineering and Medicine
- **[NEW] [Hybrid Warfare and Climate Change](#)**
29 September 2022 / 1 – 4 pm ET / 10 am – 1 pm PT / Virtual
U.S Naval War College
- **[NEW] [The Security Implications of the Pakistan Floods: A Roundtable Discussion](#)**
30 September 2022 / 9 am ET / 6 am PT / Virtual
Center for Climate & Security
- **[NEW] [Examining Challenges in Scaling Hydrogen Energy](#)**
7 October 2022 / 1:30 – 3:00 pm ET / 10:30 – Noon PT / Virtual
NASEM Chemical Sciences Roundtable
- **[Regional Clean Energy Outlook Conference: Advancing climate and security goals](#)**
10 – 11 October 2022 / Istanbul, Turkey
Atlantic Council
- **[115th U.S. Arctic Research Commission Meeting](#)**
24-25 October 2022 / Anchorage, AK
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25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[CSN] [Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)**
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network & Energy Academic Group
- **[NEW] [Recalibrating what it will take to achieve net-zero](#)**
27 October 2022 / 10 am ET / 7 am PT / Virtual
McKinsey Sustainability & The Economist

- [**The Role of AI in Responding to Climate Challenges**](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- [**Arctic Frontiers 2023**](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
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- [**Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West**](#)
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- [**\[NPS\] Multidisciplinary Studies and Analysis in Support of DoN Climate Change Priorities**](#)
This call is for topics related to Operational Decarbonization and Energy Resilience. Contact me for more information: kristen.fletcher@nps.edu. **White papers due 30 September.**
- [**\[NPS\] EAG Climate Security Pillar Hiring Faculty Associate - Research Applications due 7 October 2022.**](#)
- [**Call for Nominations: Study on Potential Environmental Effects of Nuclear War**](#)
The National Academies of Sciences, Engineering, and Medicine is undertaking a study to provide an independent review of the potential environmental effects and socio-economic consequences that could unfold following nuclear wars. **Nominations due 16 October 2022.**
- [**National Climate Assessment Call for Scenarios**](#)
Scenarios due 31 October 2022.

Dear CSN Members,

Below is the collection of updates in climate and security from the last week including the special section on Ukraine and a number of articles below on Hurricane Ian.

I'm also pleased to share that the CSN recently had its charter approved at NPS. You can view it [here](#).

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 30 September 2022

Special Section: Ukraine

- Reuters: [Ukraine has more pluses than minuses for climate](#)
- The Council of Europe: [War in Ukraine, Covid-19 and climate change key challenges for national minorities](#)
- New York Times: [Two Broken Pipelines, One Big Mystery](#)
- World Health Organization: [The European Region is in a “permacrisis” that stretches well beyond the pandemic, climate change and war](#)
- The Japan Times: [Putin’s Ukraine war forces ugly bargains on food and fuel](#)
- Reuters: [Droughts, Ukraine war push global grain stocks toward worrying decade low](#)

NEWS

- [Catastrophe and Catalyst: Pakistan’s Foreign Minister on His Nation’s Climate Tragedy](#)
30 September 2022, New Security Beat
- [Hurricanes like Ian are a growing national security threat – we need better protection](#)
29 September 2022, The Hill
- [The Meaning of “Fair Share” in Climate Litigation Under the Paris Agreement](#)
29 September 2022, Sabin Center for Climate Change Law
- [Floods; A Challenge to Comprehensive National Security of Pakistan](#)
29 September 2022, Modern Diplomacy
- [4 years after Hurricane Florence ravaged Lejeune, rebuilding continues](#)
29 September 2022, Navy Times
- [Microgrids for Anyone: Communication-Less Scheme Streamlines Microgrid Setup, Simplifies Recovery](#)
29 September 2022, National Renewable Energy Laboratory
- [Monkeypox and the Convergence of Climate, Ecological, and Biological Security Risks](#)

- 28 September 2022, Center for Climate & Security
- [Hurricane Ian's rapid intensification is a sign of the world to come](#)
28 September 2022, Vox
 - [Pentagon asks proposals for small nuclear power plant at Eielson](#)
28 September 2022, KUAC (Alaska)
 - [Another consequential year for the melting Arctic](#)
27 September 2022, New Security Beat
 - [Hurricane Ian prompts evacuation of Navy ships and aircraft](#)
27 September 2022, Navy Times
 - [All Fifty States Plus D.C. and Puerto Rico Greenlit to Move EV Charging Networks Forward, Covering 75,000 Miles of Highway](#)
27 September 2022, U.S. Department of Transportation Release
 - [Nord Stream Leaks Underline Gray-Zone Risks](#)
27 September 2022, Defense One
 - [DOD Establishes Arctic Strategy and Global Resilience Office](#)
27 September 2022, Department of Defense Release
 - [U.N. Human Rights Committee Finds that Australia is Violating Human Rights Obligations Towards Torres Strait Islanders for Climate Inaction](#)
27 September 2022, Sabin Center for Climate Change Law
 - [As wildfires grow, militaries are torn between combat, climate change](#)
26 September 2022, The Washington Post
 - [Senate Ratification of Kigali Is Good for the Climate and U.S. Competitiveness](#)
26 September 2022, Environmental and Energy Study Institute
 - [Powered by Artificial Intelligence, Argonne Technology Eyes Bird Activity At Solar Facilities](#)
25 September 2022, Clean Technica
 - [How the Biden administration's climate goals align with the military](#)
23 September 2022, NPR
 - [Hicks Highlights Energy Innovation to Improve Warfighter Capabilities](#)
23 September 2022, U.S. Department of Defense Release
 - [The World's Militaries Aren't Ready for Climate Change](#)
22 September 2022, Foreign Policy
 - [The Inflation Reduction Act will accelerate clean hydrogen adoption](#)
20 September 2022, Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- Podcast: [Risky Business: Underinsured Against Climate Disaster](#)

Climate One, 30 September 2022

- **Podcast: [The Single Best Guide To Decarbonization I've Heard](#)**
New York Times, 20 September 2022
- **Podcast: [3 Questions: Emre Gençer on the role of blue hydrogen in decarbonizing the world's energy systems](#)**
MIT Energy Reads, September 2022
- **Podcast: [Hurricanes and Governmental Response with Eric Jay Dolin](#)**
Lawfare Chatter, 29 September 2022
- **COP27 Resource: [COP27 Q&A](#)**
Human Rights Watch, 28 September 2022

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