

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

Many thanks to Colonel Aly Thompson for her perspectives on climate this week. If you missed it, we'll have the video posted next week on our [events page](#).

Plus, a special invitation to a gathering for the CSN's 2nd birthday:

- **CSN 2-year Birthday Celebration**
11 April 2023 / 5:00 pm PT / Trident Room, NPS Campus
*If you need base/campus access, please email me at: kristen.fletcher@nps.edu

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 7 April 2023

Special Section: Ukraine

- Centre for Information Resilience: [The Kremlin's winter offensive to stoke "Ukraine Fatigue"](#)
- Stanford Natural Gas Initiative: [Ukraine: A Lesson in Global Energy Stability We Need to Learn](#)
- Radio Free Europe: [Russia's 'Barbaric' Logging of Ukraine's Forests Will Have 'Catastrophic Consequences,' Kyiv Says](#)
- NATO: [Relations with Ukraine](#)
- Resilience: [A Year of War: An Energy Justice Take on Russia's Invasion of Ukraine](#)
- Impakter: [Including Women in Sustainable Reconstruction in Ukraine](#)

NEWS

- [With Russia's Exit, Norway Becomes Europe's Energy Champion](#)
6 April 2023, The New York Times
- [The future of US forests – a major carbon sink – is 'highly uncertain'](#)
6 April 2023, Grist
- [This Part of the U.S. Will Suffer Most from Climate Change](#)
5 April 2023, Scientific American
- [The U.N. Could Have a Secret Legal Weapon to Fight Climate Change](#)
5 April 2023, Foreign Policy
- [Arctic Heating Up Literally and as Scene of Strategic Competition](#)
5 April 2023, Department of Defense Release

- [**Battle brews over climate law credits for aviation biofuels**](#)
5 April 2023, E&E News
- [**An interdisciplinary approach to fighting climate change through clean energy solutions**](#)
5 April 2023, MIT News
- [**Water security should never be an afterthought**](#)
4 April 2023, Business Green
- [**Former defence leaders urge government to release report into national security risks posed by climate change**](#)
4 April 2023, ABC News (Australia)
- [**In the Face of Rising Sea Levels, Experts Call for Nationwide Coastal Management Approach**](#)
3 April 2023, Environmental and Energy Study Institute
- [**Feds warn of major climate risks to U.S. hydropower**](#)
3 April 2023, E&E News
- [**How Could AI Help Combat Climate Change? Let's Count the Ways**](#)
3 April 2023, Lifewire
- [**Now we know how a solar storm took out a fleet of Starlinks**](#)
3 April 2023, Phys.Org
- [**Failure to prepare for climate change “a threat to UK national security”**](#)
31 March 2023, Strategic Risk
- [**Climate change: We know what to do, the Pacific needs us to act, now**](#)
31 March 2023, The Interpreter
- [**Energy security is trumping climate concerns**](#)
31 March 2023, Financial Times
- [**Power outage planned as Fort Drum switches from biomass plant to National Grid**](#)
30 March 2023, NYTV 7
- [**Swiss ‘Senior Women’ Take Government to Court over Climate Change**](#)
30 March 2023, Human Rights Watch
- [**To Better Measure Climate Resilience Efforts, Federal Leaders Chart Collaborative Course**](#)
29 March 2023, Pew Charitable Trusts
- [**Economic Implications of the climate provisions of the Inflation Reduction Act**](#)
29 March 2023, Brookings
- [**The response of the international economic architecture to climate change**](#)
29 March 2023, Chatham House
- [**We need decisive climate action, can COP28 deliver?**](#)
29 March 2023, Al Jazeera

- [Stanford research highlights an overlooked accelerant of ice loss from Antarctica's Thwaites Glacier](#)
27 March 2023, Stanford News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Video:** [Climate Conversations: Tipping Points](#)
National Academies of Sciences, Engineering and Medicine, 30 March 2023
- **Podcast:** [Two Voices On Climate That Will Surprise You](#)
Climate One, 7 April 2023
- **Podcast:** [What's Cracking in the Arctic?](#)
Council on Foreign Relations, 29 March 2023
- **Podcast:** [How Supreme Court Decisions Can Shape Our Future Climate](#)
Environmental and Energy Study Institute, 3 April 2023
- **Report:** [Audit of Military Department Climate Change Assessments and Adaptation Plans in the Southeastern Continental United States](#)
DOD Office of Inspector General, 30 March 2023
- **Government Accountability Reports:**
 - [Power Marketing Administrations: Additional Steps Are Needed to Better Manage Climate-Related Risks](#) (March 2023)
 - [Fusion Energy: Potentially Transformative Technology Still Faces Fundamental Challenges](#) (March 2023)
 - [Utility-Scale Energy Storage: Technologies and Challenges for and Evolving Grid](#) (March 2023)
 - [Sustainable Aviation Fuel: Agencies Should Track Progress toward Ambitious Federal Goals](#) (March 2023)
- **Report:** [Pathways and Pitfalls: The International Politics of Lebanon's Energy Crisis](#)
Hoover Institution, Stanford University, March 2023
- **Report:** [Is Climate Change Slowing the Urban Escalator out of Poverty? Evidence from Chile, Columbia and Indonesia](#)
World Bank Group, March 2023
- **Policy Briefing:** [Boosting adaptation through climate change literacy in Africa](#)
South African Institute of International Affairs, 24 March 2023
- **Policy Paper:** [IMF Lending Under the Resilience and Sustainability Trust](#)
Center for Global Development, March 2023
- **Policy Brief:** [Climate Change and Security in West Africa](#)
Peace and Security Centre of Competence, February 2023
- **Report:** [Eastern Mediterranean Deepwater Gas to Europe: Not Too Little, But Perhaps Too Late](#)

Center on Global Energy Policy, March 2023

- **Strategy: [National Low Earth Orbit Research and Development Strategy](#)**
National Science and Technology Council, March 2023

EVENTS

- **[Alaska Sustainable Energy Conference Pre-Events](#)**
 - **Carbon Capture and Sequestration: The Myth and the Reality**
11 – 12 April 2023 / Virtual
 - **Energy Storage: Beyond Lithium-Ion Batteries**
9 – 10 May 2023 / Virtual
- **[China's Climate Security Vulnerabilities](#)**
11 April 2023 / 9:30 – 11:00 am ET / 6:30 – 8:00 am PT / Virtual & Washington, DC
Wilson Center and Center for Climate & Security
- **[MIT Energy Conference](#)**
11-12 April 2023 / Boston, MA
Massachusetts Institute of Technology
- **[\[NEW\] NOAA Panel Discussion: Building a climate-ready nation by 2030](#)**
12 April 2023 / 1 – 2:30 pm ET / 10 – 11:30 am PT
National Oceanic and Atmospheric Administration
- **[NCAC-USAEE 26th Annual Conference: Opportunity in Crisis: Solving for Energy Security and a Low-Carbon Transition](#)**
13 April 2023 / Washington DC
U.S. Association for Energy Economics
- **[SLAC Stanford Battery Research Center Launch](#)**
13 April 2023 / Menlo Park, CA
SLAC National Accelerator Laboratory
- **[\[NEW\] Investments in Clean Energy and Transportation Innovations in the Federal and Private Sectors](#)**
13 April 2023 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Virtual
Environmental and Energy Study Institute
- **[Responding to Climate Amplified Extreme Weather Events](#)**
 - **[\[NEW\] Session Two: Facilitating Housing Recovery to Extreme Weather Events](#)**
19 April 2023 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Virtual
 - **Future Sessions: 3 May, 17 May**
- **[\[NEW\] The State of Play for Nuclear Energy in the United States](#)**
19 April 2023 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual
Environmental and Energy Study Institute
- **[Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners
- **[\[NEW\] Climate Security in NATO's Backyard: A Discussion with Young Leaders](#)**

21 April 2023 / 9:30 – 10:15 am ET / 6:30 – 7:15 am PT / Virtual
International Military Council on Climate and Security

- [**Climate Security in Northwest Florida: Best Practices and Lessons Learned for Military Facility Resilience**](#)
24 April 2023 / 5:30 pm ET / Pensacola, FL
American Security Project
- [**\[NEW\] Climate Conversations: Nature-Based Solutions**](#)
27 April 2023 / 3 – 4:15 pm ET / 12 – 1:15 pm PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [**MIT Sustainability Summit**](#)
28 April 2023 / Virtual and Cambridge, MA
Massachusetts Institute of Technology
- [**\[NEW\] Greenhouse Gas Emissions Information for Decision Making: Dissemination Meeting**](#)
1 May 2023 / 11 am – 4 pm ET / 8 am – 1 pm PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [**Tackling Climate Change with Machine Learning**](#)
3 – 4 May 2023 / Kigali, Rwanda and Virtual
International Conference on Learning Representations
- [**Integrating the Human Sciences to Scale Societal Responses to Environmental Change: A Workshop**](#)
4-5 May 2023 / Virtual
National Academies of Sciences, Engineering and Medicine
- [**The Journey to Net Zero \(Webinar Series\)**](#)
BMT / Seawork Webinar Series
 - **New Emission Regulation & Guidance**
11 May 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
 - **Underwater Radiated Noise: An Unheard Emission**
6 June 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
- [**DOD Climate Resilience Workshop 2023**](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E

OPPORTUNITIES

- [**Call for Papers: The Role of Nuclear Power in Mitigating Climate Change – Atoms4NetZero**](#)
Papers due 28 April 2023.
- [**Request for Information: Updating the Climate Literacy Guide**](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

The video from the **April 5 talk by Colonel Aly Thompson** is now available [here](#).

Also, I was pleased to do an interview recently with the American Security Project:

- [Earth Month Interview: Kristen Fletcher](#)
American Security Project, 12 April 2023

Lastly, **thanks** to those who gathered this week to celebrate **the CSN's 2nd birthday**. Great to see you all!

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 14 April 2023

Special Section: Ukraine

- Politico: [War in Ukraine pushes Europe's militaries to decarbonize](#)
- Nature: [War and pandemic do not jeopardize Germans' willingness to support climate measures](#)
- Just Security: [Russia-Ukraine War Archive](#)
- Financial Times: [A new tool could make Russia pay for environmental damage in Ukraine](#)
- Wilson Center: [Holding Russia Accountable for the Crime of Ecocide in Ukraine](#)

NEWS

- [The climate change debate dividing the World Bank](#)
14 April 2023, Politico
- [Climate-displaced Americans face discrimination](#)
14 April 2023, Axios
- [California Wants to Cover Its Canals With Solar Panels](#)
13 April 2023, The New York Times
- [EPA used the climate law on cars. Power plants are next.](#)
13 April 2023, E&E News
- [Climate Change: World using less fossil fuels to produce electricity](#)
12 April 2023, BBC
- [Drones Give Bird's-Eye View for Collecting Environmental and Security Data](#)

12 April 2023, Quality Digest

- [China Invests in Qatar LNG Plant in Energy Security Push](#)
12 April 2023, Bloomberg
- [Sustainability vs energy security: Using one to achieve the other](#)
12 April 2023, Smart Energy International
- [Feds' Colorado River choice: California's rights or Arizona's future?](#)
11 April 2023, Grist
- [Inside climate activists' uneasy relationship with 'net-zero'](#)
11 April 2023, Grist
- [Climate and Coastal Adaptation: The Need for Urgent Planning](#)
11 April 2023, New Security Beat
- [The hottest new climate technology is bricks](#)
10 April 2023, MIT Technology Review
- [What More Climate Disasters Mean for U.S. National Security](#)
10 April 2023, Carnegie Endowment for International Peace
- [G7 likely to back nuclear power amid energy security concerns](#)
8 April 2023, The Japan Times
- [Effort to save biomass plant could be over](#)
7 April 2023, WWNY 7 News
- [How to mitigate the effects of climate change on global food security](#)
6 April 2023, World Economic Forum
- [Reflecting on a Career Researching Climate Change and Security in North Korea](#)
6 April 2023, E-International Relations
- [US DOD Operational Energy Announces Funding For Ground-Breaking Hybrid Aircraft Project](#)
5 April 2023, Hybrid Air Vehicles
- [Staying the course: Achieving climate change goals in turbulent times](#)
4 April 2023, MIT Climate Portal
- [North Korea's Energy Sector: Notable Solar Installations](#)
4 April 2023, 38 North
- [Biggest BESS project in North Carolina marks tiny step for Duke Energy in 1600MW rollout](#)
3 April 2023, Energy Storage News
- [Stanford research highlights an overlooked accelerant of ice loss from Antarctica's Thwaites Glacier](#)
27 March 2023, Stanford News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Video:** [Perspectives on Climate from a Military Fellow](#)
Climate & Security Network, April 2023
- **Report:** [Climate Change and Adaptation: Department of Defense](#)
Congressional Research Service, 6 April 2023
- **Report:** [Utility-Scale Energy Storage: Technologies and Challenges for an Evolving Grid](#)
U.S. Government Accountability Office, March 2023
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
Naval Postgraduate School, 1 March 2023
- **Tool:** [Inflation Reduction Act Tracker](#)
Sabin Center for Climate Change Law, April 2023
- **Report:** [Five Urgent Questions on Ecological Security](#)
SIPRI, April 2023
- **Monthly Summary:** [Assessing the U.S. Climate in March 2023](#)
National Centers for Environmental Information, 10 April 2023
- **Report:** [Global Electricity Review 2023](#)
Ember, 12 April 2023
- **Report:** [Arctic National Wildlife Refuge: Status of Oil and Gas Program](#)
Congressional Research Service, 6 April 2023
- **[NPS] Thesis:** [Introducing a Network of Emerging Commercial Technologies to Combat Wildfires on DoD Installations](#)
Naval Postgraduate School, released April 2023
- **Research Paper:** [Lessons From Kuwait: How the Country's Rentier Democracy Is Slowing Its Energy Transition](#)
Baker Institute for Public Policy, 5 April 2023
- **Issue Brief:** [Accelerating the energy transition to strengthen European energy security: Key barriers to overcome](#)
Atlantic Council, 6 April 2023
- **Report:** [Climate and Environmental Security in the Democratic Republic of Congo](#)
German Council on Foreign Relations, April 2023
- **Article:** [Making AI Less "Thirsty": Uncovering and Addressing the Secret Water Footprint of AI Models](#)
arXiv, 6 April 2023
- **Brief:** [Re-thinking Climate Security](#)
University of Maryland, April 2023
- **Article:** [The Age of Energy Insecurity: How the Fight for Resources Is Upending Geopolitics](#)

Foreign Affairs, 10 April 2023

- **Brief: [Balancing Commitment and Competition in the Pacific Islands](#)**
The National Bureau of Asian Research, April 2023
- **Brief: [Aligning U.S. Leadership and Ally Support on Clean Energy](#)**
The National Bureau of Asian Research, April 2023
- **Statement: [Joint Statement on U.S. – EU Task Force on Energy Security](#)**
U.S. Embassy & Consulate in Poland, 4 April 2023
- **Report: [Climate Change and Security Sector Governance Reform](#)**
Geneva Centre for Security Sector Governance, 13 April 2023
- **Report: [2023 Levelized Cost of Energy+](#)**
Lazard, April 2023

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 - **Session Two: Facilitating Housing Recovery to Extreme Weather Events**
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19 April 2023 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual
Environmental and Energy Study Institute
- **[The Fourth Annual Earth Day Climate Change Symposium – Climate Change: An Accelerating Transformation](#)**
20 April 2023 / 8:30 am – 12:30 pm ET / 5:30 – 9:30 am PT / Virtual
New York City Bar
- **[Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
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- **[NEW] [Managing Unavoidable Climate Security Risks: U.S. Investments in Resilience](#)**
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- [DOD Climate Resilience Workshop 2023](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- **[NEW]** [Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

OPPORTUNITIES

- [Call for Papers: The Role of Nuclear Power in Mitigating Climate Change – Atoms4NetZero](#)
Papers due 28 April 2023.
- [Request for Information: Updating the Climate Literacy Guide](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

Also, in honor of Earth Day tomorrow, here are a few interesting links about Earth Day and climate change.

- World Economic Forum: [Earth Day: Here are 5 ways we can scale up climate solutions, according to IPCC](#)
- Vox: [7 big Earth Day wins for the planet](#)
- U.S. Air Force: [Earth Day 2023: Invest in our planet, protect our future](#)
- Longreads: [Earth Day Reads: A Longreads Collection on the Environment, Climate Change & Conservation](#)
- Spotify: [This Earth Day, Spotify Lifts the Voices Fighting Climate Change](#)
- GZERO Media: [Earth Day 2023: Show me the money](#)

Hope everyone has a Happy Earth Day!

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 21 April 2023

Special Section: Ukraine

- Fortune: [Russia's invasion of Ukraine boosted clean energy to power more than 90% of new demand, report says](#)
- CNN: [Trade and carbon credits, not Ukraine, lead the agenda at Lula-Xi talks](#)
- The Wall Street Journal: [For Taiwan, as for Ukraine, Energy Security Is Existential](#)
- Atlantic Council: [Ukrainian victory "could help ensure Europe's future energy security"](#)
- Science: [Scientists plan a comeback for Ukraine's war-ravaged forests](#)
- Coda: [How the Ukraine war could spell the end of fossil fuels](#)
- Energy Digital Magazine: [Ukraine war to propel renewable transition](#)
- The Washington Post: [Why Russia's war in Ukraine is bad news for polar bears, too](#)
- The Wall Street Journal: [Saudi Arabia, U.A.E. Scoop Up Russian Oil Products at Steep Discounts](#)

NEWS

- [What could \\$1 billion do for Puerto Rico's energy resilience? Residents have ideas.](#)
21 April 2023, Grist
- [5 Things to know about Biden's \\$1B climate payment](#)
21 April 2023, E&E News

- [Biden's order expands environmental justice push](#)
21 April 2023, Axios
- [Pivoting Toward Climate Security: An Interview with Lt. Gen. Richard Nugee \(ret.\)](#)
20 April 2023, Center for Climate & Security
- [Climate science vs energy security: the new challenges to reaching net zero](#)
20 April 2023, ING
- [Intensifying Cycle of Extreme Heat and Drought Grips Europe](#)
20 April 2023, Inside Climate News
- [Biden wants to send more climate cash abroad. Republicans want a stay.](#)
20 April 2023, Politico
- [Kazakhstan and the Global Clean Energy Transition](#)
19 April 2023, American Security Project
- [This innovative model links corporations with farmers to improve water security in Latin America](#)
18 April 2023, World Economic Forum
- [How climate change is shaping China's domestic security choices](#)
18 April 2023, The Strategist (Australian Strategic Policy Institute)
- [Energy security doesn't have to cost us the planet](#)
18 April 2023, World Economic Forum
- [Major reform of renewables scheme will hugely improve energy security](#)
18 April 2023, Innovation News Network
- [Official Describes Steps DOD Taking for Energy, Environmental Resilience](#)
17 April 2023, Department of Defense Release
- [Pentagon Sounds Alarm Over Biden Plan for Offshore Wind Sites](#)
17 April 2023, Bloomberg
- [The Department of Defense Announces Winners of the 2023 Secretary of Defense Environmental Awards](#)
17 April 2023, Department of Defense Release
- [Colorado River Basin: Proposed Cuts and Legal Dynamics](#)
17 April 2023, American Security Project
- [Finland's new nuclear reactor: What does it mean for climate goals and energy security?](#)
17 April 2023, Euronews
- [Militaries, Metals, and Mining](#)
17 April 2023, New Security Beat
- [UN Water Conference Highlights a Stubborn Shortage of Global Action](#)
17 April 2023, Inside Climate News

- [State-based climate litigation jeopardizes energy security policy](#)
16 April 2023, The Hill
- [A 15-year old law would end fossil fuels in federal buildings, but it's on hold](#)
16 April 2023, NPR
- [G7 vows to step up moves to renewable energy, zero carbon](#)
16 April 2023, AP News
- [G7 Ministers welcome key IEA work on energy security and clean energy transitions](#)
16 April 2023, International Energy Agency
- [Climate change, energy prices and national security are now all intertwined and politicians must rise to the challenge](#)
15 April 2023, The Scotsman
- [New SLAC-Stanford Battery Center targets roadblocks to a sustainable energy transition](#)
13 April 2023, SLAC National Accelerator Laboratory
- [A winter drought grips southern Europe](#)
13 April 2023, The Economist
- [Stanford Doerr School of Sustainability announces its first focus area](#)
13 April 2023, Stanford University Release
- [America needs clean electricity. These states show how to do it.](#)
12 April 2023, The Washington Post
- [Building climate and conflict resilient livelihoods and food systems: Insights from East Africa](#)
12 April 2023, Planetary Security Initiative
- [Researchers devise new system for turning seawater into hydrogen fuel](#)
11 April 2023, SLAC National Accelerator Laboratory
- [A different way to measure the climate impact of food](#)
11 April 2023, The Economist
- [Accelerating the energy transition to strengthen European energy security: Key barriers to overcome](#)
6 April 2023, Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Fact Sheet:** [President Biden Signs Executive Order to Revitalize Our Nation's Commitment to Environmental Justice for All](#)
21 April 2023, The White House
- **Interview:** [National Security This Week with Commander Andrea Cameron](#)
KYMN Radio, 19 April 2023
- **Framework:** [A Federal Framework and Action Plan for Climate Services](#)

National Science and Technology Council, March 2023

- **Podcast:** [Why our high electric bills might be hurting our climate change goals](#)
Radio Boston, 19 April 2023
- **Policy Brief:** [Migration in the Context of Climate Policy](#)
German Council on Foreign Relations, April 2023
- **Podcast:** [Missed Connections: Modernizing Our Multiple Grids](#)
Climate One, 21 April 2023
- **Monthly Report:** [March 2023 Global Climate Report](#)
National Centers for Environmental Information, March 2023
- **Report:** [Data Progress Needed for Climate-Smart Agriculture](#)
Stanford Law School and Bezos Earth Fund, April 2023
- **Report:** [Water Diplomacy Analysis for Central Asia](#)
Finnish Institute of International Affairs, April 2023
- **Issue Brief:** [Pakistan's Water Security Issue](#)
Institute of Strategic Studies Islamabad, 13 April 2023
- **Paper:** [Climate Security and Instability in the Bay of Bengal Region](#)
Council on Foreign Relations, April 2023

EVENTS

- [Climate Security in Northwest Florida: Best Practices and Lessons Learned for Military Facility Resilience](#)
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American Security Project
- **[NEW]** [U.S. Environmental Diplomacy: A Conversation with Assistant Secretary of State Monica Medina](#)
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Wilson Center
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Massachusetts Institute of Technology

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- [**\[NEW\] Risks, Resilience and Readiness of Military Lands Facing Coastal Flooding**](#)
4 May 2023 / 12:00 pm ET / 9:00 am PT / Virtual
SERDP & ESTCP
- [**Integrating the Human Sciences to Scale Societal Responses to Environmental Change: A Workshop**](#)
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 - **Underwater Radiated Noise: An Unheard Emission**
6 June 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
- [**\[NEW\] Capitol Hill Ocean Week 2023: Ocean x Climate**](#)
6-8 June 2023 / Washington DC & Virtual
National Marine Sanctuaries Foundation
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U.S. Global Change Research Program
Contributions due 31 May 2023.
- [Broad Agency Announcement: Shipboard Carbon Capture & Storage](#)
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

The Climate & Security Network was pleased to help plan and execute the Department of the Navy Climate Change Tabletop Exercise II at NPS this week. Many thanks to those at NPS and our partners for their help in making the event a success. An after-action report will be made available in the near future.

I'm also pleased to share that our own CST Planning Team Member, [Dr. Douglas Van Bossuyt, received the Richard W. Hamming Faculty Award for Interdisciplinary Achievement](#). Congratulations, Douglas!

Hope everyone has a good weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 28 April 2023

Special Section: Ukraine

- Euractiv: [Understanding the environmental cost of the Ukraine war](#)
- Common Dreams: [‘War Is Not Green’: Climate Groups Call on Biden to Support Peace Talks in Ukraine](#)
- News EU: [Ukraine conflict and climate change driving global food insecurity](#)
- The Jerusalem Post: [Ukraine accuses Russia of ecocide as endangered populations dwindle](#)

NEWS

- [Department of Defense Climate & Energy Security Investments](#)
27 April 2023, American Security Project
- [A record warm streak in the oceans has scientists worried](#)
27 April 2023, Grist
- [Climate change: Satellite maps warming impact on global glaciers](#)
27 April 2023, BBC
- [New High Seas Treaty Prepares International Community for Sustainable and Equitable "Blue Economy"](#)
26 April 2023, Just Security
- [Fighting Climate Change, Winning on Food Security, and Saving Our Broccoli](#)
25 April 2023, Real Clear Energy
- [Supreme Court Declines to Hear Appeals From Fossil Fuels Companies in Climate Change Lawsuits](#)

25 April 2023, Inside Climate News

- [Supreme Court unlocks climate cases by rejecting oil industry bid](#)
25 April 2023, E&E News
- ['A Large Portion of This Base Is Going To Be Underwater': U.S. Military Hub Adapts to Climate](#)
25 April 2023, The Wall Street Journal
- [China's Climate Security Vulnerabilities](#)
25 April 2023, New Security Beat
- [Opinion: Climate isn't a distraction from the military's job of war fighting. It's front and center](#)
25 April 2023, Phys.org
- [Comment: To make net zero add up through carbon markets we need to learn from accountants](#)
24 April 2023, Reuters
- [With decarbonization, advocates see a bright future for nuclear after decades of dormancy](#)
24 April 2023, Kentucky Lantern
- [The answer may be blowing in the wind](#)
24 April 2023, MIT Energy Initiative
- [New method for making ammonia could take a bite out of global energy use](#)
24 April 2023, Stanford News
- [Building a Healthy Hydrogen Economy This Earth Day](#)
21 April 2023, American Security Project
- [A Threat to Global Food Security](#)
21 April 2023, Wilson Center
- [How is Climate Change Affecting MENA? Local Experts Weigh In](#)
21 April 2023, New Security Beat
- [DOD Makes Climate Assessment Tool Available to Partner Nations](#)
21 April 2023, Department of Defense Release
- [Earth Day Interview: CDR Andrea Cameron](#)
21 April 2023, American Security Project
- [Climate tension: UN chief chides Biden, other world leaders](#)
20 April 2023, AP News
- [Supporting Military Mission Resilience with Nature-Based Solutions](#)
20 April 2023, Naval Base Ventura County Release
- [Colombian President Gustavo Petro Urges Transition to Green Energy](#)
20 April 2023, Stanford Center on Democracy, Development and the Rule of Law

- [Earth Day Resources from the National Academies](#)
20 April 2023, National Academies of Sciences, Engineering and Medicine

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Executive Order:** [Executive Order on Revitalizing Our Nation's Commitment to Environmental Justice for All](#)
The White House, 21 April 2023
- **Podcast:** [Lights, Camera, Inaction: Where is Climate's Starring Role?](#)
Climate One, 28 April 2023
- **Workshop Proceedings:** [Integrating Public and Ecosystem Health Systems to Foster Resilience: A Workshop to Identify Research to Bridge the Knowledge-to-Action Gap](#)
National Academies of Sciences, Engineering and Medicine, April 2023
- **Report:** [Addressing Climate Security Risks in Central America](#)
Wilson Center, April 2023
- **Video:** [Future Health Leaders Share Their Vision for Addressing Climate Change to Advance Health Equity](#)
National Academy of Medicine, April 2023
- **Video:** [The very bad math behind the Colorado River crisis](#)
Grist, 26 April 2023
- **Report:** [Reflections and Recommendations for the Clean Energy Transition](#)
American Security Project, April 2023
- **Report:** [Principles for Public Investment in Climate-Responsible Energy Innovation](#)
The Hamilton Project / Brookings, April 2023
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
Naval Postgraduate School, 1 April 2023

EVENTS

- [Greenhouse Gas Emissions Information for Decision Making: Dissemination Meeting](#)
1 May 2023 / 11 am – 4 pm ET / 8 am – 1 pm PT / Virtual
National Academies of Sciences, Engineering and Medicine
- **[NEW]** [Solutions Summit: Building an equitable workforce for the Greenhouse Gas Reduction Fund](#)
2 May 2023 / 8:00 am ET / Washington, DC
Atlantic Council
- [Tackling Climate Change with Machine Learning](#)
3 – 4 May 2023 / Kigali, Rwanda and Virtual
International Conference on Learning Representations
- [Risks, Resilience and Readiness of Military Lands Facing Coastal Flooding](#)
4 May 2023 / 12:00 pm ET / 9:00 am PT / Virtual
SERDP & ESTCP

- [**Integrating the Human Sciences to Scale Societal Responses to Environmental Change: A Workshop**](#)
4-5 May 2023 / Virtual
National Academies of Sciences, Engineering and Medicine
- [**Energy innovation for a net-zero future**](#)
9 May 2023 / 5:30 – 7:30 pm ET / Cambridge, MA
MIT
- [**Climate Leadership Conference**](#)
10 – 12 May 2023 / Los Angeles, CA
The Climate Registry
- [**The Journey to Net Zero \(Webinar Series\)**](#)
BMT / Seawork Webinar Series
 - **New Emission Regulation & Guidance**
11 May 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
 - **Underwater Radiated Noise: An Unheard Emission**
6 June 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
- [**\[NEW\] Climate Conversations: Nuclear Energy**](#)
25 May 2023 / 3 – 4:15 pm ET / Noon – 1:15 PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [**Capitol Hill Ocean Week 2023: Ocean x Climate**](#)
6-8 June 2023 / Washington DC & Virtual
National Marine Sanctuaries Foundation
- [**8th annual Central and Eastern European Energy Security Conference**](#)
15 June 2023 / 9:30 am ET / 6:30 am PT / Washington DC & Virtual
Atlantic Council
- [**DOD Climate Resilience Workshop 2023**](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- [**Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges**](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

OPPORTUNITIES

- [**Request for Information: Updating the Climate Literacy Guide**](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.
- [**Broad Agency Announcement: Shipboard Carbon Capture & Storage**](#)
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Opens 17 May 2023. Closes 14 June 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

But, first, especially for my fellow dog lovers, I'll share a happy story:

- [A very good girl deploys on carrier Ford: Sage the therapy dog](#)
3 May 2023, Navy Times

On 27-28 April, the Climate & Security Network was pleased to help plan and execute the Department of the Navy Climate Change Tabletop Exercise II at NPS. Here is some coverage of the event:

- Navy News Release: [NPS, Stanford Doerr School of Sustainability Team Up for Department of the Navy's Latest Climate Tabletop Exercise](#)
- Monterey County Herald: [National leaders gather at NPS to problem-solve climate change issues](#)

Thanks to our many CSN Members who contributed to the event. Hope everyone has a good weekend,

Kristen

Kristen M Fletcher
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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 5 May 2023

Special Section: Ukraine

- MES Insights (Marine Corps Univ.): [The War in Ukraine: A Watershed Moment for Enhancing MENA Food Resilience?](#)
- Finnish Institute of International Affairs: [Russian blackmail and the Black Sea Grain Initiative: The \(limited\) impacts of the war in Ukraine on global food security](#)
- Consortium News: [Climate Groups to Biden: Back Ukraine Peace Talks](#)
- Reuters: [Russia and West wrestle over energy assets amid Ukraine Invasion](#)
- European Parliament: [Assessment of the potential of sustainable fuels in transport in the context of the Ukraine/Russia crisis](#)
- The Independent: [Ukraine war 'a warning shot' for possible future energy shortages](#)
- Fair Observer (Video): [Ukraine, Climate Change and Polycrisis Implications for the Future](#)

NEWS

- [Carbon removal features filters, fans – and ivory towers](#)
4 May 2023, E&E News
- [What's Next in Climate Security Studies? Exploiting Synergies Between Practice and Research](#)
4 May 2023, New Security Beat

- [DOD Awards Enexor Grant to Address Environmental Needs Affecting U.S. Navy](#)
3 May 2023, Renewable Energy Magazine
- [Chile's national lithium strategy raises questions about the environmental and social costs of EVs](#)
3 May 2023, Grist
- [See how a quick-fix climate solution could also trigger war](#)
3 May 2023, The Washington Post
- [The Water Brokers](#)
3 May 2023, Grist
- [New temperature records, food security threats likely as El Niño looms](#)
3 May 2023, UN News
- [Commerce Department delays final decision on solar panel tariffs until August as Congress votes to end pause](#)
3 May 2023, Utility Dive
- [Climate talks see push for deadline on ending 'fossil fuel age'](#)
2 May 2023, Al Jazeera
- [Maine court recharges plan for embattled transmission line](#)
2 May 2023, Grist
- [Envisioning education in a climate-changed world](#)
1 May 2023, MIT News
- [DARPA is making Nikola Tesla's dream of wireless energy a reality](#)
1 May 2023, Interesting Engineering
- [What a pending Supreme Court ruling could mean for Biden's new clean water protections](#)
1 May 2023, Grist
- [Spy planes of the North Pole: Could climate change fuel war in the Arctic?](#)
30 April 2023, EuroNews
- [Energy Secretary Backs All-electric Military Vehicles by 2030](#)
28 April 2023, The Washington Current
- [Electrify Everything, California says – including trucks and trains](#)
28 April 2023, Grist
- [Global Warming made Horn of Africa drought possible: WWA Study](#)
27 April 2023, Al Jazeera
- [Finding 'hotspots' where compounding environmental and economic risks converge](#)
27 April 2023, MIT Joint Program on the Science and Policy of Global Change
- [The underbelly of electric vehicles](#)
27 April 2023, The Washington Post

- [Inside Germany's power struggle over nuclear energy](#)
27 April 2023, MIT Technology Review
- [Addressing America's Water Crisis Could Also Cut Carbon Emissions](#)
26 April 2023, Environmental and Energy Study Institute
- [A Caribbean island's quest to become the world's first climate-resilient nation](#)
19 April 2023, BBC
- [The Pentagon Needs to Put Climate Clarity at the Top of Its Target List](#)
19 April 2023, Real Clear Defense
- [Virtual Reality for global climate leadership](#)
18 April 2023, Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Video:** [Climate Conversations: Nature-Based Solutions](#)
National Academies of Sciences, Engineering and Medicine, 27 April 2023
- **Video:** [Chasing Carbon Zero](#)
NOVA, 26 April 2023
- **Congressional Research Service Reports:**
 - [U.S. International Climate Finance: A Primer](#) (24 April 2023)
 - [U.S. International Climate Finance: FY2024](#) (24 April 2023)
- **Paper:** [Green Recovery and Balancing Between Paradoxes: The Egyptian Holistic Approach to Promote Food Security and Tack Related Challenges](#)
European Institute of the Mediterranean, April 2023
- **Article:** [Climate change impacts on plant pathogens, food security and paths forward](#)
Nature, 2 May 2023
- **Article:** [Key Factors Shaping China's Engagement with International Environmental Law](#)
Asia Society Policy Institute, April 2023
- **Report:** [Innovation Out of the Climate Crisis: Reflections and Recommendations for the Clean Energy Transition](#)
American Security Project, April 2023
- **Report:** [Dangerously Hungry: The Link Between Food Insecurity and Conflict](#)
World Food Program USA, April 2023
 - **Related Podcast:** [The Link Between Food Insecurity and Conflict: A New Report from World Food Program USA](#)
New Security Beat, 1 May 2023
- **Podcast:** [Get Up, Stand Up: What Actions Move the Needle?](#)
Climate One, 5 May 2023
- **Issue Brief:** [US-Pakistan Green Alliance: Advancing Bilateral Cooperation on Sustainable Development](#)

Institute of Strategic Studies Islamabad, 21 April 2023

- **Briefer:** [Connecting Adversarial and Environmental Geopolitics in Southeast Asia](#)
Asymmetric Threats Analysis Center, April 2023
- **Report:** [Installation Management: DOD Needs Better Data, Stronger Oversight, and Increased Transparency to Address Significant Infrastructure and Environmental Challenges](#)
U.S. Government Accountability Office, April 2023
- **Article:** [Absorbing Climate Shocks and Easing Conflict in Kenya's Rift Valley](#)
International Crisis Group, April 2023
- **Paper:** [How to boost international private climate finance](#)
Global Economy and Finance Programme, April 2023
- **Report:** [Accelerate: 175 – A Plan for Targeted Renewable Energy Cooperation with Key Indian States](#)
Center for Strategic and International Studies, April 2023
- **Paper:** [A new framework for how firms can manage climate risks](#)
Brookings, April 2023
- **Report:** [International Dialogue on Migration No. 34: Overlapping Global Crises: The Impacts of Food Insecurity and Climate Change on Migration and Displacement](#)
International Organization for Migration, March 2023
- **Policy Brief:** [Living with climate change, conflict and displacement: Recognizing agency, voice, mobility, language and linkages](#)
Humanitarian Policy Group, April 2023
- **Report:** [Comparing Responses to Climate-Related Security Risks Among the EU, NATO and the OSCE](#)
Stockholm International Peace Research Institute, April 2023
- **Workshop Report:** [Grid Resilience to Extreme Events – Connecting Science to Investments and Policy](#)
Pacific Northwest National Laboratory, April 2023
- **Report:** [The Global Transboundary Climate Risk Report](#)
Adaptation Without Borders, April 2023
- **Papers:**
 - [What Threats Does Climate Change Pose to Canada and How are We Situated to Face Those Threats, Part One](#) (March 2023)
 - [Canadian Climate Security: Implications and Ways Forward, Part 2](#) (April 2023)
Conference of Defence Associations Institute
- **Podcast:** [Building Up Adaptation Jobs to Rise to the Climate Challenge](#)
Environmental and Energy Study Institute, 1 May 2023
- **Report:** [Climate Security and Instability in the Bay of Bengal Region](#)

Council on Foreign Relations, April 2023

- **Report:** [Climate-Tech to Watch: Green Ammonia](#)
Information Technology & Innovation Foundation, April 2023
- **Report:** [Latin America's Lithium: Perspectives on Critical Minerals and the Global Energy Transition](#)
Wilson Center, April 2023
- **Article:** [Taiwan's Food Resiliency – or Not – in a Conflict with China](#)
US Army War College Quarterly, April 2023

EVENTS

- [Energy innovation for a net-zero future](#)
9 May 2023 / 5:30 – 7:30 pm ET / Cambridge, MA
MIT
- **[NEW]** [Climate, Energy and Economic Win-Wins in the Farm Bill](#)
10 May 2023 / 1:30 – 3:00 pm ET / Washington, DC
Environmental and Energy Study Institute
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10 – 12 May 2023 / Los Angeles, CA
The Climate Registry
- [The Journey to Net Zero \(Webinar Series\)](#)
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- [Climate Conversations: Nuclear Energy](#)
25 May 2023 / 3 – 4:15 pm ET / Noon – 1:15 PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [Trends & Opportunities in Maritime Data & Security](#)
25 May 2023 / Port of San Diego
The Maritime Alliance BlueTech
- **[NEW]** [GHG Emissions Reduction Audits: Taking Energy Audits to the Next Level](#)
7 June 2023 / 1 pm ET / 10 am PT / Virtual
U.S. Department of Energy
- [Research Frontiers Forum: Climate Change + National Security](#)
8 June 2023 / 9 am – 6 pm ET / Laurel, MD
Johns Hopkins Applied Physics Laboratory
- [Capitol Hill Ocean Week 2023: Ocean x Climate](#)
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National Marine Sanctuaries Foundation

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15 June 2023 / 9:30 am ET / 6:30 am PT / Washington DC & Virtual
Atlantic Council
- [\[NEW\] The Global Digital Transformation in the Energy Sector Forum 2023](#)
26-28 June 2023 / Amsterdam, Netherlands and Virtual
Amsterdam Energy Summit
- [DOD Climate Resilience Workshop 2023](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- [Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

OPPORTUNITIES

- [\[NEW\] Call for Presentation Abstracts: 2023 Federal Environmental Symposium](#)
Theme: Environment: A Mission Asset
Abstracts due 19 May 2023.
- [Request for Information: Updating the Climate Literacy Guide](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.
- [Broad Agency Announcement: Shipboard Carbon Capture & Storage](#)
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.

Dear CSN Members,

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Thanks to everyone who sends contributions for the weekly email!

Kristen

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NPS Climate & Security Network Weekly Update: 12 May 2023

Special Section: Ukraine

- European Bank for Reconstruction and Development: [ERBD and Italy cooperating to support energy security in Ukraine](#)
- Red Team Analysis Society: [War in Ukraine, the 2023 Super El Niño and Global Disruptions](#)
- Reuters: [Number of internally displaced people hits record due to war, climate change](#)
- New Security Beat: [Russia's War in Ukraine: Green Policies in a New Energy Geopolitics](#)
- The New Voice of Ukraine: [EU calls for criminal accountability of Russia for environmental damage in Ukraine](#)

NEWS

- [What does climate change have to do with the debt ceiling crisis?](#)
12 May 2023, Grist
- [4 energy issues to watch with EPA's power plant rule](#)
12 May 2023, E&E News
- [Is carbon capture viable? In a new rule, the EPA is asking power plants to prove it.](#)
12 May 2023, Grist
- [A new world order seeks to prioritise security and climate change](#)
11 May 2023, The Economist
- [The U.S. Military Can Help Save the Amazon](#)
11 May 2023, Just Security
- [Baltic Leaders Look to Offshore Wind for Energy Security](#)
10 May 2023, Offshore Engineer
- [How Wildfire Smoke from Australia Affected Climate Events Around the World](#)
10 May 2023, Inside Climate News
- [Analysis: Fears mount for the Arctic as cooperation with Russia stalls](#)
9 May 2023, Reuters

- [Vilsack Says Innovation Key to Fighting Climate Change, Food Insecurity](#)
9 May 2023, Successful Farming
- [Carbon and Hydrogen in Meeting Climate Goals: Framing Matters](#)
9 May 2023, New Security Beat
- [Solar-panel ‘clustering’ coming to scores of Army homes on Hawaii](#)
8 May 2023, Stars and Stripes
- [Spanish island builds ‘giant water battery’ to boost energy security](#)
8 May 2023, The Next Web
- [Army Engineer Corps to study dredging threat to sea turtles](#)
8 May 2023, Navy Times
- [How Climate Smart Agriculture Can Help Us Tackle Global Food Insecurity](#)
8 May 2023, Earth.Org
- [Industry, NATO Monitor Threats to Energy Security](#)
5 May 2023, Energy Intelligence
- [Could hydrogen be the answer to China’s energy security problem?](#)
5 May 2023, South China Morning Post
- [WFP and UNEP bolster global food and water security](#)
5 May 2023, United Nations Environment Programme
- [North Korea’s Energy Sector: Solar in Manufacturing](#)
5 May 2023, 38 North
- [Sri Lanka eyes renewables to boost energy security](#)
5 May 2023, Upstream
- [Germany to help protect Iraq’s water supplies from climate change threat](#)
4 May 2023, The National News
- [Colombia’s Petro urges Spain to lead EU on Climate Change](#)
3 May 2023, AP News
- [From nighttime solar panels to algae biofuels, emerging research presented at Energy Solutions Week](#)
3 May 2023, The Stanford Daily
- [China’s wind industrial policy “succeeded” – but at what cost?](#)
1 May 2023, Atlantic Council
- [Lawmakers from 19 countries discuss energy security, sustainability implications of Abraham Accords](#)
1 May 2023, Jewish Insider
- [Carbon Removal Projects Leap Forward With New Offset Deal. Will They Actually Help the Climate?](#)
28 April 2023, Grist

- [Navigating the Intersection of Climate Change and the Law of the Sea: Exploring the ITLOS Advisory Opinion's Substantive Content](#)
24 April 2023, Sabin Center for Climate Change Law

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [War and Energy Security: Lessons for the Future](#)
International Centre for Defence and Security, May 2023
- **Article:** [Exceptional stratospheric contribution to human fingerprints on atmospheric temperature](#)
Proceedings of the National Academy of Sciences (PNAS), 8 May 2023
- **Monthly Report:** [Assessing the U.S. Climate in April 2023](#)
National Centers for Environmental Information, 8 May 2023
- **Tool:** [Simplified GHG Emissions Calculator](#)
U.S. Environmental Protection Agency, 8 May 2023
- **Brief:** [The Intelligence Community Must Evolve To Meet the Reality of Arctic Change](#)
Wilson Center Polar Institute, May 2023
- **Issue Brief:** [Driving the G20's Climate Agenda: Priorities for India's Presidency](#)
Observer Research Foundation, May 2023
- **Article:** [Ten economic facts about electricity and the clean energy transition](#)
Brookings, 27 April 2023
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
Naval Postgraduate School, 1 May 2023
- **Video:** [Foreign Policy Climate Summit 2023: Energy Security and the Future of Fuel](#)
Foreign Policy, 5 May 2023
- **Report:** [Status Report on Principles of International and Human Rights Law Relevant to Climate Change](#)
Columbia Law School, May 2023
- **Study:** [Climate, Peace and Security Study: Uganda, West Nile sub-region](#)
Planetary Security Initiative, 26 April 2023
- **Brief:** [Energy Weapons are Double-edged Swords](#)
SPSW Strategy Series, May 2023
- **Report:** [Clean Energy and Decarbonization in Southeast Asia](#)
Center for Strategic and International Studies, May 2023
- **Podcast:** [Energy transition today](#)
G Zero Media, 4 May 2023
- **Podcast:** [How does the environmental impact of mining for clean energy metals compare to mining for coal, oil and gas?](#)

MIT Climate Portal, 8 May 2023

- **Report:** [Kazakhstan Could Lead Central Asia in Mitigating the World's Energy and Food Shortages](#)
Atlantic Council, April 2023
- **Report:** [Laying the Foundation for New and Advanced Nuclear Reactors in the United States](#)
National Academies of Sciences, Engineering and Medicine, May 2023

EVENTS

- **[NEW]** [Blue Carbon Law Symposium](#)
17-18 May 2023 / Athens, GA & Virtual
Sea Grant
- **[NEW]** [Decreasing Flood Risk through Regional Collaborations: Lessons from the Field](#)
24 May 2023 / Noon – 1 pm PT / 9 – 10 am PT
Georgetown Climate Center
- [Climate Conversations: Nuclear Energy](#)
25 May 2023 / 3 – 4:15 pm ET / Noon – 1:15 PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [Trends & Opportunities in Maritime Data & Security](#)
25 May 2023 / Port of San Diego
The Maritime Alliance BlueTech
- [The Journey to Net Zero \(Webinar Series\)](#)
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OPPORTUNITIES

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Theme: Environment: A Mission Asset
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- [**Request for Information: Updating the Climate Literacy Guide**](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.
- [**\[NEW\] Patents for Humanity: Green Energy**](#)
U.S. Patent and Trademark Office
Applications due 1 June 2023
- [**Broad Agency Announcement: Shipboard Carbon Capture & Storage**](#)
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.
- [**\[NEW\] National Ocean Sciences Bowl Seeks Volunteers for ONR STEM project**](#)
For faculty, staff and students at NPS, the [National Ocean Sciences Bowl](#) is launching an ONR STEM pilot project with [Scoutlier](#) and seeking help in creating two sets of products and recruiting speakers. It's a great way to engage with high school students on ocean and climate issues. Feel free to forward to NPS faculty, staff and students you think may be interested. Contact Marina Lesse for more information: marina.lesse@nps.edu.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

This week, the **World Meteorological Organization** issued a climate update for 2023 – 2027 noting that it is likely the globe will reach more than 1.5C above pre-industrial levels for at least one year during that time frame. Some resources on this include:

- WMO Report: [WMO Global Annual to Decadal Climate Update \(Target years: 2023 – 2027\)](#)
- WMO Video: [The Global Annual to Decadal Climate Update](#)
- WMO Release: [Global temperatures set to reach new records in next five years](#)
- Reuters: [‘More likely than not’ world will soon see 1.5 degrees Celsius of warming, World Meteorological Organization says](#)
- Al Jazeera: [Global warming likely to breach 1.5C threshold for first time](#)

In addition, for those of you on campus today, you’re invited to join the **Design Challenge Winner’s Ceremony** which includes local high school winners of the climate change-focused challenge that they undertook this spring. The event is **4 – 5 pm PT in the ME Auditorium** at NPS.

Hope everyone has a nice weekend.

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 19 May 2023

Special Section: Ukraine

- Bloomberg: [Ukraine is Planning Its Green Reconstruction Even as War Rages On](#)
- American Security Project: [Russia’s Failures in Ukraine Should Not Distract from Its Successes in the Sahel](#)
- The Arctic Institute: [Ukraine War and Arctic Collaboration: Final Remarks](#)
- Quartz: [Disasters, exacerbated by climate change displaced more people than war in 2022 – the year Russia invaded](#)
- European Bank for Reconstruction and Development: [EBRD and Norway continue to support energy security in Ukraine](#)
- Time: [Russia’s War in Ukraine Is Making the Heat Wave in Asia Even Deadlier](#)

NEWS

- [Addressing the Converging Risks of Climate, Insecurity, and Migration in Central America](#)
19 May 2023, New Security Beat
- [Climate change and water security in Asia-Pacific](#)
19 May 2023, Hindustan Times

- [**A New Battery Intended to Power Passenger Airplanes and EVs, Explained**](#)
18 May 2023, Inside Climate News
- [**Climate change worsened Asia's April heatwave by 2C – study**](#)
18 May 2023, BBC
- [**China's Silent Greening**](#)
18 May 2023, New Security Beat
- [**False choices and climate security**](#)
16 May 2023, The Hill
- [**Tokayev Calls for Decisive Measures to Improve Environment, Achieve Carbon Neutrality at Security Council Meeting**](#)
16 May 2023, The Astana Times
- [**Can the World Make an Electric Car Battery Without China?**](#)
16 May 2023, The New York Times
- [**Chile's Nationalization Of Lithium: "Green Protectionism" Endangering Energy Transition**](#)
16 May 2023, Forbes
- [**Isn't climate change a matter of national security?**](#)
15 May 2023, The Express Tribune (Pakistan)
- [**Kazakh Security Council debates environmental and water security issues**](#)
15 May 2023, Kaz Inform
- [**Meeting the Climate Moment Requires a Coherent Climate Disaster Strategy**](#)
12 May 2023, Just Security
- [**Emerging Economies Face Growth-Climate Security Dilemma: Nirmala Sitharaman**](#)
12 May 2023, BQ Prime
- [**Water Purification Systems Helps Marines Go Green**](#)
12 May 2023, DoD Release
- [**Conflict and climate disasters combine to create record rise in displaced people**](#)
11 May 2023, The Guardian
- [**What is carbon capture? Some say it will help save the world, for others it's a dangerous distraction**](#)
11 May 2023, CNN
- [**Wildfires and Installation Resilience**](#)
10 May 2023, American Security Project
- [**Final Day of AIM for Climate Summit Announces Groundbreaking Initiatives on the Road to COP28**](#)
10 May 2023, U.S. Department of Agriculture Release
- [**Towards a Framework for American Climate Security Action**](#)

10 May 2023, American Security Project

- [Q&A: Sustainability dean talks fossil-fuel funding, student voices](#)
9 May 2023, The Stanford Daily
- [First observational evidence of Beaufort Gyre stabilization, which could be precursor to huge freshwater release](#)
8 May 2023, Phys.org
- [Heat Waves Fueled by Climate Change Topple Records around the Globe](#)
8 May 2023, E&E News
- [EPA Orders U.S. Air Force to Address Oil Discharge at Travis Air Force Base](#)
4 May 2023, U.S. Environmental Protection Agency Release

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Federal Proposed Rule:** [Greenhouse Gas Standards and Guidelines for Fossil Fuel-Fired Power Plants](#)
U.S. Environmental Protection Agency, May 2023
- **Fact Sheet:** [Biden-Harris Administration Outlines Priorities for Building America's Energy Infrastructure Faster, Safer, and Cleaner](#)
White House, 10 May 2023
- **UNESCO Reports (2023):**
 - [South-Eastern Europe regional synthesis: Climate change, displacement and the right to education](#)
 - [Asia-Pacific regional synthesis: Climate change, displacement and the right to education](#)
 - [Central America and the Caribbean regional synthesis: Climate change, displacement and the right to education](#)
- **Audio:** [Europe's Energy Security Challenge](#)
Center on Global Energy Policy, 16 May 2023
- **Video:** [Climate security is our national security: Cook Islands PM](#)
Channel News Asia, 19 May 2023
- **Article:** [New, Old, and Reconfigured: Exploring the U.S. Department of Homeland Security's Path to Climate Security](#)
Homeland Security Affairs Journal, May 2023
- **Web Resource:** [Climate change mitigation: reducing emissions](#)
European Environment Agency, 12 May 2023
- **Article:** [Climate Change, Fish Production and Maritime Piracy](#)
Weather, Climate & Society Journal, April 2023
- **Report:** [Laying the Foundation for New and Advanced Nuclear Reactors in the United States](#)
National Academies of Sciences, Engineering and Medicine, May 2023

- **Video:** [Energy innovation for a net-zero future](#)
MIT Energy Initiative, 9 May 2023
- **Article:** [The climate change, conflict and migration nexus: A holistic view](#)
Climate Resilience and Sustainability, 13 May 2023
- **Report:** [Extreme April heat in Spain, Portugal, Morocco & Algeria almost impossible without climate change](#)
Imperial College London, 5 May 2023
- **Video:** [What can Pacific island cultures teach us about sustainability?](#)
Stanford Earth Matters Magazine, April 2023
- **Resource Guide:** [Climate: A media resource guide](#)
NOAA, May 2023
- **Article:** [Assessing the climate change mitigation potential from food waste composting](#)
Nature, 10 May 2023

EVENTS

- **[NEW] Bidirectional Charging**
24 May 2023 / 3 – 4 pm ET / Noon – 1 pm PT / Virtual
U.S. Department of Energy
- **[Decreasing Flood Risk through Regional Collaborations: Lessons from the Field](#)**
24 May 2023 / Noon – 1 pm PT / 9 – 10 am PT
Georgetown Climate Center
- **[Climate Conversations: Nuclear Energy](#)**
25 May 2023 / 3 – 4:15 pm ET / Noon – 1:15 PT / Virtual
National Academies of Sciences, Engineering and Medicine
- **[Trends & Opportunities in Maritime Data & Security](#)**
25 May 2023 / Port of San Diego
The Maritime Alliance BlueTech
- **[NEW] [Maximizing the Climate Benefits of Hydrogen](#)**
1 June 2023 / 2 – 3:30 pm ET / Washington DC & Virtual
Environmental and Energy Study Institute
- **[The Journey to Net Zero \(Webinar Series\)](#)**
BMT / Seawork Webinar Series
 - **Underwater Radiated Noise: An Unheard Emission**
6 June 2023 / 10 – 11 am GMT / 5 – 6 am ET / 2 – 3 am PT
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7 June 2023 / 1 pm ET / 10 am PT / Virtual
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- **[Research Frontiers Forum: Climate Change + National Security](#)**
8 June 2023 / 9 am – 6 pm ET / Laurel, MD
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- [Capitol Hill Ocean Week 2023: Ocean x Climate](#)
6-8 June 2023 / Washington DC & Virtual
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- [\[NEW\] Incorporating Climate into Macroeconomic Modeling: A Workshop](#)
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15 June 2023 / 9:30 am ET / 6:30 am PT / Washington DC & Virtual
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- [The Global Digital Transformation in the Energy Sector Forum 2023](#)
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- [DOD Climate Resilience Workshop 2023](#)
10-13 July 2023 / St. Louis, MO
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- [\[NEW\] Hydrogen: A rising pillar of our clean energy future](#)
13 July 2023 / 1:00 pm ET / 10:00 am PT / Virtual
C3E
- [Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

OPPORTUNITIES

- [Request for Information: Updating the Climate Literacy Guide](#)
U.S. Global Change Research Program
Contributions due 31 May 2023.
- [Patents for Humanity: Green Energy](#)
U.S. Patent and Trademark Office
Applications due 1 June 2023
- [Broad Agency Announcement: Shipboard Carbon Capture & Storage](#)
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.
- **National Ocean Sciences Bowl Seeks Volunteers for ONR STEM project**
For faculty, staff and students at NPS, the [National Ocean Sciences Bowl](#) is launching an ONR STEM pilot project with [Scoutlier](#) and seeking help in creating two sets of products and recruiting speakers. It's a great way to engage with high school students on ocean and climate issues. Feel free to forward to NPS faculty, staff and students you think may be interested. Contact Marina Lesse for more information: marina.lesse@nps.edu.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

This week marked the anniversary of the release of the Department of the Navy Climate Strategy, *Climate Action 2030*.

- [Department of the Navy Recognizes Accomplishments on One-Year of Climate Action 2030 and Requests Innovative Ideas](#)
24 May 2023, Department of the Navy Release

To mark the anniversary, a new climate website was launched at www.secnav.navy.mil/climate which features a portal where members of the Department of the Navy community can submit their ideas for climate action.

Geopolitical Strategist Peter Zeihan will be at NPS next week for the following events.

- **Peter Zeihan Book Signing and Q&A Session**
30 May 2023 / 1400 PT / Dudley Knox Library
[Registration required.](#)
- **The Green Wars with Peter Zeihan**
31 May 2023 / 1200 – 1300 PT / Ingersoll Hall 122
Energy Academic Group VIP Lecture / No registration required.
[Information on Mr. Zeihan.](#)

For information pertaining to these events, contact Ms. Tahmina Karimova at tkarimo@nps.edu.

Hope everyone has a nice Memorial Day weekend.

Kristen

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NPS Climate & Security Network Weekly Update: 26 May 2023

Special Section: Ukraine

- AP News: [G7 'outreach' and effort to build consensus on global issues like Ukraine, China, climate change](#)
- College of Europe: [Between Securitisation and Europeanisation? The EU as an External Energy Actor in Ukraine and Georgia](#)
- European Council on Foreign Relations: [Keeping the lights on: The EU's energy relationships since Russia's invasion of Ukraine](#)
- AP News: [Russia agrees to extend Ukraine grain deal in a boost for global food security](#)
- Washington Post: [Ukraine found an unlikely tool to resist Russia: Solar panels](#)

- Kyiv Independent: [How Ukrainian businesses can navigate the EU's changing climate policies](#)

NEWS

- [Offshore wind arrives in America](#)
26 May 2023, E&E News
- [A U.S. Nonprofit Aims to Reduce Emissions of a Super Climate Pollutant from Chemical Plants in China](#)
25 May 2023, New Security Beat
- [Typhoon over Guam highlights climate threat to U.S. military in Pacific](#)
25 May 2023, The Japan Times
- [Military must focus on short- and long-term challenges of climate change, report finds](#)
25 May 2023, NBC News
- [Collaboration urged as climate changes puts water security at risk](#)
25 May 2023, United Kingdom Environment Agency Release
- [The climate tech hype award goes to...](#)
25 May 2023, Politico
- [U.S. Military Sees Growing Threat in Thawing Permafrost](#)
24 May 2023, Scientific American
- [Pentagon Officials Voice Readiness Concerns Over Climate Change](#)
24 May 2023, Bloomberg Law
- [Law enforcement is not ready for its greatest challenge yet – climate change](#)
24 May 2023, Euronews
- [A Powerful Climate Solution Just Below the Ocean's Surface](#)
24 May 2023, The New York Times
- [Bee-hind the Scenes: Saving the Bees](#)
23 May 2023, Department of the Navy Release
- [Researchers tackling world's climate-driven water crisis](#)
23 May 2023, Mirage News
- [Finding tailored solutions to climate change, conflict in Mideast are urgent challenges for COP28](#)
23 May 2023, Arab News
- [Breakthrough proposal would aid drought-stricken Colorado River as 3 Western states offer cuts](#)
23 May 2023, AP News
- [At last, states reach a Colorado River deal: Pay farmers not to farm](#)
22 May 2023, Grist

- [Extra Credit: Design Challenge Recognizes Students For Innovative Climate Change Solutions](#)
22 May 2023, NPS Release
- [The Pentagon is helping bring the baby nuclear industry to life](#)
22 May 2023, American Journal of Transportation
- [Transforming Water Governance: are we breaking boundaries for water and climate?](#)
22 May 2023, Stockholm Environment Institute
- [What Is The Human Cost Of Global Warming?](#)
22 May 2023, Forbes
- [USDA Climate Hubs Go Global](#)
22 May 2023, Department of Agriculture Release
- [US, Papua New Guinea sign defence agreement as Modi pledges support for Pacific Islands](#)
22 May 2023, Reuters
- [Helping more people stay safe with flood forecasting](#)
22 May 2023, Google
- [FEMA Announces Additional \\$160 M to Build Climate and Disaster Resilience Nationwide](#)
20 May 2023, Homeland Security Today
- [Selling War Amid Climate Change](#)
19 May 2023, Ink Stick Media
- [Military conflict, deglobalization and climate change – The future of feeding the world](#)
19 May 2023, Food Navigator Europe
- [Near And Middle East: Combined Effects of Climate Change and Armed Conflict Aggravate Humanitarian Needs](#)
18 May 2023, International Committee of the Red Cross
- [War-torn MENA nations missing out on much-needed climate funds](#)
18 May 2023, Al Jazeera
- [Deputy Defense Secretary Departs This Weekend for Alaska](#)
18 May 2023, Department of Defense Release
- [The Upper Atmosphere is Cooling, Prompting New Climate Concerns](#)
18 May 2023, Yale Environment 360
- [Americans like direct air capture, with caveats](#)
18 May 2023, Politico
- [How to get to 100% clean energy with today's technologies](#)
15 May 2023, Environment America
- [Working with the Pacific island nations to build resilience](#)

12 May 2023, Australian Strategic Policy Institute

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Climate and Readiness: Understanding Climate Vulnerability of U.S. Joint Force Readiness](#)
RAND, 24 May 2023
- **Tool:** [IPCC-gpt](#)
IPCC, May 2023
- **Brief:** [The geopolitics of economic and climate security: transatlantic trends](#)
Real Institute Elcano, 22 May 2023
- **Congressional Research Service Reports:**
 - [Greenhouse Gas Emissions in the U.S. Electricity Sector: Background, Policies and Projections](#) (18 May 2023)
 - [Chevron Deference: A Primer](#) (18 May 2023)
 - [Solar Geoengineering and Climate Change](#) (9 May 2023)
 - [Circumvention Inquiry into Solar Imports](#) (8 May 2023)
- **Article:** [Divergent effectiveness of irrigation in enhancing food security in droughts under future climates with various emissions scenarios](#)
Nature, 23 May 2023
- **Article:** [Quantifying the human cost of global warming](#)
Nature, 22 May 2023
- **Storymap:** [Atlas of Mortality and Economic Losses from Weather, Climate and Water-related Hazards](#)
World Meteorological Organization, May 2023
- **Podcast:** [Listen to Climate Change: Conflict and Security](#)
The London School of Economics and Political Science, 22 May 2023
- **Blog Post:** [“Beyond Adaptation”: Coming to Terms with Loss & Damage](#)
Climate Policy Initiative, 23 May 2023
- **Article:** [Effects of Coastal Sea Level Rise on US Hazardous Waste](#)
US Environmental Protection Agency, 18 May 2023
- **Archive:** [Just Security’s Climate Archive](#)
Just Security, 20 May 2023
- **Video:** [Climate change, food insecurity and migration in the Middle East](#)
Center for Middle East Policy at Brookings, 15 May 2023
- **Podcast:** [Responsive design meets responsibility for the planet’s future](#)
MIT Energy Reads, May 2023
- **Policy Paper:** [Climate Change and Migration: An Omnibus Overview for Policymakers and Development Practitioners](#)
Center for Global Development, May 2023

- **Blog Post:** [What's Next in Climate Security Studies? Exploiting Synergies between Practice and Research](#)
PRIO Blogs, 16 May 2023
- **Policy Brief:** [Critical Minerals for Net-Zero Transition: How the G7 can Address Supply Chain Challenges and Socioenvironmental Spillovers](#)
Think7 / G7, April 2023
- **Book:** [Science Communications In A Crisis: An Insider's Guide](#)
Woods Hole Oceanographic Institution, May 2023
- **Article:** [North Korea's Energy Sector: Civilian Solar Power](#)
38 North, 12 May 2023
- **Article:** [North Korea's Energy Sector: Solar in Agriculture](#)
38 North, 10 May 2023
- **Policy Brief:** [Decarbonisation Nations: How EU Climate Diplomacy Can Save the World](#)
European Council on Foreign Relations, May 2023
- **Issue Brief:** [Shaping a Just Transition to Clean Fuel-Based Energy Sources](#)
Observer Research Foundation, May 2023
- **Report:** [Three Steps to Including Conflict Considerations in the Design of Climate Adaptation Projects](#)
Stockholm Hub, May 2023
- **Policy Brief:** [The Case for a G20-Led Climate Change Relocation Insurance System](#)
G20/T20, May 2023
- **Article:** [Defining long duration energy storage](#)
Journal of Energy Storage, April 2023
- **Conference Report:** [Exploring the Energy Transition and Net-Zero Strategies of Gulf Oil Producers](#)
Baker Institute for Public Policy, 11 May 2023
- **Report:** [Community and Individual Disaster Resilience for Floods](#)
RAND, May 2023
- **Issue Paper:** [Economic and Environmental Impacts of China's New Nationwide CO2 Emissions Trading System](#)
Asia Society Policy Institute, May 2023

EVENTS

- [Maximizing the Climate Benefits of Hydrogen](#)
1 June 2023 / 2 – 3:30 pm ET / Washington DC & Virtual
Environmental and Energy Study Institute
- [The Journey to Net Zero \(Webinar Series\)](#)
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20 and 22 June 2023 / Washington DC and Virtual
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- [**DOD Climate Resilience Workshop 2023**](#)
10-13 July 2023 / St. Louis, MO
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- [**Hydrogen: A rising pillar of our clean energy future**](#)
13 July 2023 / 1:00 pm ET / 10:00 am PT / Virtual
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- [**\[NEW\] Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges**](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board
- [**\[NEW\] Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability**](#)
24 – 26 January 2024 / Aveiro, Portugal & Virtual
University of Aveiro (Portugal)

OPPORTUNITIES

- [**Request for Information: Updating the Climate Literacy Guide**](#)
U.S. Global Change Research Program

Contributions due 31 May 2023.

- **[Patents for Humanity: Green Energy](#)**
U.S. Patent and Trademark Office
Applications due 1 June 2023
- **[Broad Agency Announcement: Shipboard Carbon Capture & Storage](#)**
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.
- **[\[NEW\] Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business](#)**
Proposals due 14 October 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

I'm also pleased to share that CSN Planning Team member, **Dr. Dan Eisenberg**, has been named **Director of the [NPS Center for Infrastructure Defense](#)** where he will shape the direction and substance of ongoing research projects in critical infrastructure protection. Congratulations, Dan!

Hope everyone has a nice weekend.

Kristen

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NPS Climate & Security Network Weekly Update: 2 June 2023

Special Section: Ukraine

- Forbes: [The Ukraine Invasion Reveals How National Security, International Trade, And Climate Change Are Connected](#)
- Center for Climate & Security: [Water Weaponization: Its Forms, Its Use in the Russia-Ukraine War, and What to Do About it](#)
- Impakter: [How War in Ukraine Affects the Environment](#)
- Responsible Statecraft: [How war is destroying Ukraine's environment](#)
- The Guardian: [Ukraine built more onshore wind turbines in the past year than England](#)
- Danish Institute for International Studies: [The new EU climate and energy strategy in a time of wars](#)
- International Centre for Defence and Security: [War and Energy Security: Lessons for the Future](#)

NEWS

- [The global plastics treaty can fight climate change – if it reduces plastic production](#)
2 June 2023, Grist
- [Arizona restricts some new development over groundwater concerns](#)
2 June 2023, The Hill
- [Near record warm oceans, developing El Niño escalates hurricane risks](#)
2 June 2023, Axios
- [Climate change leading to militarisation of the Arctic](#)
1 June 2023, ABC News (Australia)
- [Climate change as a threat multiplayer to national security](#)
1 June 2023, Daily Times (Pakistan)

- [**New Research Shows Global Climate Benefits of Protecting Nature, but It's Not a Silver Bullet**](#)
1 June 2023, Inside Climate News
- [**High fuel prices, energy security concerns drive surge in renewables: research**](#)
1 June 2023, The Hill
- [**The G7 can take NATO-EU climate cooperation to the next level**](#)
1 June 2023, Atlantic Council
- [**How the EU Can use Mineral Supply Chains to Redesign Collective Security**](#)
1 June 2023, Carnegie Europe
- [**Arctic Risks Loom Large as Blinken Tours NATO's North**](#)
31 May 2023, The New York Times
- [**HUD takes on climate crisis with a new retrofit program**](#)
31 May 2023, Grist
- [**North America is now the growth leader for new battery factories**](#)
31 May 2023, Electrek
- [**Russia's Hybrid Power Strategy**](#)
31 May 2023, American Security Project
- [**The New Iron Age: The Potential of Affordable, Safe and Clean Energy Storage**](#)
30 May 2023, Environmental and Energy Study Institute
- [**Antarctic Sea Ice Is at Record Lows. Is It an Alarming Shift?**](#)
26 May 2023, Wired
- [**Solving climate challenges, one innovation at a time**](#)
25 May 2023, Woods Hole Oceanographic Institute
- [**Military must focus on short- and long-term challenges of climate change, report finds**](#)
25 May 2023, NBC News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Podcast:** [**Bringing Biodiversity Back from the Breaking Point**](#)
Climate One, 2 June 2023
- **Podcast:** [**Sea Control 433: Climate Change and Military Operations in the Arctic with Marisol Maddox**](#)
Center for International Maritime Security, 1 June 2023
- **Report:** [**Renewable Energy Market Update: Outlook for 2023 and 2024**](#)
International Energy Agency, 1 June 2023
- **Issue Paper:** [**Economic and Environmental Impacts of China's New Nationwide CO2 Emissions Trading System**](#)
Asia Society Policy Institute, May 2023

- **Policy Study:** [Towards a Renewed Euro-Mediterranean Cooperation on Sustainable Agri-Food Systems for Food Security in the Region](#)
Eurmesco, May 2023
- **Report:** [SHOCKED: De-risking the energy transition](#)
GHD, May 2023
- **Report:** [Gender equality in the sustainable energy transition](#)
United Nations Industrial Development Organization, May 2023
- **Report:** [Climate Security Scenarios in the Balkans](#)
Center for Climate & Security
- **Report:** [Mapping of Climate Security Adaptations at Community Level in the Horn of Africa](#)
United Nations Development Programme, May 2023
- **Congressional Research Service Reports:**
 - [Prospects for U.S.-Saudi Nuclear Energy Cooperation](#) (19 May 2023)
 - [Fusion Energy](#) (24 May 2023)
- **Paper:** [Strengthening Marine and Coastal EbA in Climate Policies in Southern Africa](#)
South African Institute of International Affairs, May 2023
- **Issue Brief:** [Climate Security in the Indo-Pacific](#)
Priorities and Challenges, 24 May 2023
- **Video:** [Behavioral Pathways to Decarbonization with Recent Climate Legislation](#)
National Academies of Sciences, Engineering and Medicine, May 2023
- **Comment:** [Knowledge Politics in the Context of International Climate Negotiations](#)
German Institute for International and Security Affairs
- **Policy Brief:** [Climate Change, Mobility and Human Trafficking in Ethiopia – Getting the relationship right](#)
Danish Institute for International Studies, 26 May 2023
- **Comment:** [“Carbon Management”: Opportunities and risks for ambitious climate policy](#)
German Institute for International and Security Affairs, May 2023
- **Report:** [Inclusive NATSEC: Climate Conflicts and Environmental Peacebuilding](#)
Center for Naval Analysis, May 2023
- **Article:** [New, Old and Reconfigured: Exploring the U.S. Department of Homeland Security’s Path to Climate Security](#)
Homeland Security Affairs, May 2023
- **Video:** [Climate Conversations: Nuclear](#)
National Academies of Sciences, Engineering and Medicine, 25 May 2023

EVENTS

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- [**\[NEW\] Atmospheric Methane Removal: Needs, Challenges and Opportunities**](#)
17-18 October 2023 / Washington DC and Virtual
National Academies of Sciences, Engineering, and Medicine
- [**Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges**](#)
13-15 November 2023 / Washington DC

National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

- [**Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability**](#)
24 – 26 January 2024 / Aveiro, Portugal & Virtual
University of Aveiro (Portugal)

OPPORTUNITIES

- [**Broad Agency Announcement: Shipboard Carbon Capture & Storage**](#)
Office of Naval Research, Navy Small Business Innovation Research
Opens 17 May 2023. Closes 14 June 2023.
- [**\[NEW\] Call for Applications: Climate Security Fellows 2023 - 2024**](#)
Applications due 15 July 2023.
- [**Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business**](#)
Proposals due 14 October 2023.
- [**\[NEW\] Call for Input: Atmospheric Methane Removal: Technical Input**](#)
Submit input by 31 October 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine and one on the UN Climate Summit in Bonn which started this week.

I'm also pleased to share the After Action Report from the Climate Change TTX in April. You can view it via the CSN site:

- [Department of the Navy Climate Change Tabletop Exercise II: After Action Report](#)
Department of the Navy, Naval Postgraduate School, Stanford Doerr School, June 2023

And, in honor of World Ocean Day this week, here's some hopeful news...

- [Four wins worth recognizing this World Ocean Day](#)
8 June 2023, Oceanus

Hope everyone has a nice weekend.

Kristen

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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 9 June 2023

Special Section: Ukraine

- The Hill: [The tragic intersection of the war on Ukraine and the battle against climate change](#)
- Reuters: [Accounting for war – Ukraine's climate fallout](#)
Just Security: [Could the Nova Kakhovka Dam Destruction Become the ICC's First Environmental Crimes Case?](#)
- CNN: [Russia's war in Ukraine is undermining global efforts to tackle the climate crisis, new report finds](#)
- Reuters: [How the Ukraine war deepens the climate crisis](#)
- Stockholm Centre for Eastern European Studies: [Russia-China Energy Relations Since 24 February: Consequences and Options for Europe](#)

Special Section: UN Climate Summit – Bonn

- [Summit Homepage](#)
- UN Press Releases:
 - [Bonn Climate Change Conference to Set Stage for Course Correction at COP28](#)
 - [Transitional Committee on Loss and Damage Holds Second Meeting in Bonn](#)
 - [UN Climate Change Unveils Plan to Showcase Leadership and Enhance Accountability](#)

NEWS

- [Wildfire smoke is also a carbon emissions problem](#)

9 June 2023, Axios

- [**This Air Force Squadron Is Key to DOD's Plan For Climate Change**](#)
8 June 2023, Air & Space Forces Magazine
- [**The US military's carbon footprint is making Africa less secure**](#)
8 June 2023, Responsible Statecraft
- [**Should the Security Council Engage with Implications of Climate Change? Let's Look at the Scientific Evidence**](#)
8 June 2023, IPI Global Observatory
- [**US Army Suddenly Obsessed With Liquified Gas Electrolytes For Portable Energy Storage Systems**](#)
8 June 2023, CleanTechnica
- [**How Canada's wildfires and air quality warnings are connected to climate change**](#)
7 June 2023, ABC News
- [**Are We Ready for the Terror Threat Posed by El Nino?**](#)
7 June 2023, Center for Climate & Security
- [**Sucking a carbon-neutral fuel out of thin air**](#)
7 June 2023, The Economist
- [**Electric Vehicles bolster national security, energy independence of US**](#)
7 June 2023, The Invading Sea
- [**CCS Releases New Tool: Military Responses to Climate Hazards Tracker**](#)
6 June 2023, The Center for Climate & Security
- [**New Tool Tracks Military Deployments to Climate Disasters**](#)
5 June 2023, Scientific American
- [**Not So Fast... Energy Transition Trips Over Security Concerns**](#)
5 June 2023, Forbes
- [**Collaboration and Standardization Are Key to DOD's Battery Strategy, Meeting U.S. Energy Objectives**](#)
5 June 2023, U.S. Department of Defense Release
- [**For these West Point cadets, military leadership includes finding solutions to climate change**](#)
5 June 2023, The American Homefront Project
- [**Will fossil fuel phase-out make it onto the UN's climate agenda?**](#)
5 June 2023, Al Jazeera
- [**Powering up Britain: analysing the government's energy security and net zero strategy**](#)
5 June 2023, UK in a Changing Europe
- [**Global carbon-pricing revenues reach record high – plus other top stories about global energy**](#)

5 June 2023, World Economic Forum

- [Climate change: How is my country doing on tackling it?](#)
5 June 2023, BBC News
- [Amnesty calls for global action to mitigate heatwaves in Pakistan](#)
5 June 2023, Al Jazeera
- [The landmark trial that could determine who pays to rid America's drinking water of PFAS](#)
2 June 2023, Grist
- [Water scarcity issues expected to escalate rapidly across Scotland](#)
2 June 2023, BBC News
- [The future of greenhouse gases](#)
2 June 2023, Stanford Engineering
- [In a First, Caltech's Space Solar Power Demonstrator Wirelessly Transmits Power in Space](#)
1 June 2023, Caltech Release
- [Millions of Somalis uprooted due to conflicts and climate change](#)
31 May 2023, Al Jazeera
- [Climate change could increase inflation by 1% a year over the next decade, but it's your food that's going to get really expensive](#)
31 May 2023, Fortune
- [What we need now from the leadership of COP28](#)
31 May 2023, Al Jazeera
- [Securing Asia's Energy And Natural Resources Future](#)
31 May 2023, Forbes
- [Here's what to expect on China, AI , green energy and more when EU and US officials meet in Sweden](#)
30 May 2023, European Policy Centre

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Presidential Proclamation:** [A Proclamation on National Ocean Month, 2023](#)
White House, 31 May 2023
- **Report:** [Impacts of climate change on defence-related critical energy infrastructure](#)
European Commission and European Defence Agency, June 2023
- **Congressional Research Service Reports:**
 - [Carbon Dioxide \(CO₂\) Pipeline Development: Federal Initiatives](#) (2 June 2023)
 - [Is That Climate Change? The Science of Extreme Event Attribution](#) (1 June 2023)
 - [Environmental Reviews and Permitting: Pending Legislation](#) (31 May 2023)
 - [2023 Hurricane Outlooks and 2022 Hurricane Season Review](#) (30 May 2023)
- **Podcast:** [Killer Heat: Confronting Disproportionate Impacts on Women and Girls](#)

Climate One, 9 June 2023

- **Report:** [African Agency in International Climate Policy and Energy Geopolitics](#)
Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2023
- **Report:** [The Limits to Adaptation in the Context of Climate Security in the Pacific](#)
United Nations, 6 June 2023
- **Report:** [Climate Change Dilemmas for UK Defence and Security](#)
RAND, May 2023
- **Report:** [Environmental Sustainability: DOD Should Identify Workforce Capacity Needed to Achieve Goals](#)
U.S. Government Accountability Office, May 2023
- **Tool:** [Military Responses to Climate Hazards \(MiRCH\) Tracker](#)
Center for Climate & Security / Council on Strategic Risks, June 2023
- **Report:** [Development and Cooperation on Nuclear Research and Energy in the Middle East](#)
The United Nations Institute for Disarmament Research, June 2023
- **Report:** [China and Rare Earths: Risks to Supply Chain Resilience in Europe](#)
International Centre for Defence and Security, May 2023
- **Report:** [World Energy Investment 2023](#)
International Energy Agency, May 2023
- **Article:** [Beating the Heat: Military Training and Operations in the Era of Global Warming](#)
Journal of Applied Physiology, May 2023
- **USGS Online Resources:**
 - [USGS Science in the American Territories](#) (2 June 2023)
 - [Coastal Change Likelihood](#) (May 2023)
 - [USGS looks back 2,000 years to study the relationship between hurricanes and climate](#) (April 2023)
- **Technical Brief:** [Vulnerability Assessment of Mineral-Rich States to Energy Transition](#)
Climate Policy Initiative, May 2023
- **Report:** [Open Science Hardware: A Shared Solution to Environmental Monitoring Challenges](#)
Wilson Center, May 2023

EVENTS

- **[NEW] [Planning the Energy Transition: Global Perspectives](#)**
12 June 2023 / 8:30 am ET / 5:30 am PT / Virtual
Atlantic Council Global Energy Center
- **[Climate as National Security: Considerations for the Climate Conversation](#)**
12 June 2023 / 4 – 5 pm ET / Washington DC

American Security Project

- **[\[NEW\] Climate Security in the Indo-Pacific: A Conversation with Pacific Island Ambassadors](#)**
13 June 2023 / 2 – 3 pm ET / Washington DC
Carnegie Endowment for International Peace
- **[Incorporating Climate into Macroeconomic Modeling: A Workshop](#)**
14 – 15 June 2023 / Washington DC & Virtual
National Academies of Sciences, Engineering and Medicine
- **[8th Annual Central and Eastern European Energy Security Conference](#)**
15 June 2023 / 9:30 am ET / 6:30 am PT / Washington DC & Virtual
Atlantic Council
- **[\[NEW\] 3 Breakthroughs to Transform Climate Finance](#)**
15 June 2023 / 10:30 am ET / 7:30 am PT / Virtual
World Resources Institute
- **[Climate Intervention in an Earth Systems Science Framework: A Workshop](#)**
20 and 22 June 2023 / Washington DC and Virtual
National Academies of Sciences, Engineering and Medicine
- **[Climate Conversations: Artificial Intelligence](#)**
22 June 2023 / 3:30 – 4:45 pm ET / 12:30 – 1:45 pm PT / Virtual
National Academies of Sciences, Engineering and Medicine
- **[The Global Digital Transformation in the Energy Sector Forum 2023](#)**
26-28 June 2023 / Amsterdam, Netherlands and Virtual
Amsterdam Energy Summit
- **[DOD Climate Resilience Workshop 2023](#)**
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- **[\[NEW\] DOD Energy & Power Summit](#)**
12-13 July 2023 / National Harbor, MD
Defense Strategies Institute
- **[Hydrogen: A rising pillar of our clean energy future](#)**
13 July 2023 / 1:00 pm ET / 10:00 am PT / Virtual
C3E
- **[\[NEW\] Atmospheric Methane Removal: Needs, Challenges and Opportunities](#)**
17-18 October 2023 / Washington DC and Virtual
National Academies of Sciences, Engineering, and Medicine
- **[Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)**
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board

- [**Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability**](#)

24 – 26 January 2024 / Aveiro, Portugal & Virtual

University of Aveiro (Portugal)

OPPORTUNITIES

- [**Broad Agency Announcement: Shipboard Carbon Capture & Storage**](#)
Office of Naval Research, Navy Small Business Innovation Research
Closes 14 June 2023.
- [**Call for Applications: Climate Security Fellows 2023 - 2024**](#)
Applications due 15 July 2023.
- [**Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business**](#)
Proposals due 14 October 2023.
- [**Call for Input: Atmospheric Methane Removal: Technical Input**](#)
Submit input by 31 October 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

Some CSN members had the honor to visit the Hopkins Marine Station of Stanford University this week and gained a new appreciation for how the cutting-edge marine science happening just down the road from NPS links to our work in climate and environmental security. Hopkins is part of the [Stanford Doerr School of Sustainability](#), a key educational partner of NPS. To find out more, visit [Hopkins Marine Station](#) and see a [photo tour](#) of the campus and research. We look forward to having our Hopkins colleagues to NPS soon!

Thanks to those who have shared news, events and resources. Hope everyone has a nice weekend.

Kristen

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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 16 June 2023

Special Section: Ukraine

- Washington Post: [Ukraine's dam destruction could 'forever' change ecosystems, officials say](#)
- Washington Examiner: [Ukraine dam destroyed, Zelensky calls it 'mass environmental destruction'](#)
- The Economist: [Ground zero of Ukraine's dam disaster – in pictures](#)
- UN News: [Environmental, economic consequences of Ukraine dam disaster 'an awful shock': UN relief chief](#)
- DW: [Climate another casualty of the war in Ukraine](#)
- Ukrinform: [Environmental damage due to Russian shelling of military facilities in Ukraine stands at UAH 298B](#)
- World War Zero: [Takeaways from Bonn: Ukraine Crisis Slows Down Climate Efforts](#)

NEWS

- [UN climate body head dissatisfied with Bonn climate talks outcome](#)
16 June 2023, Reuters
- [China's aggressive approach in Sri Lanka's energy sector raises concern about sovereignty, security of island nation](#)
16 June 2023, Devdiscourse
- [Building a Safer North: Climate Security Risks in the Canadian Arctic](#)
15 June 2023, The Maritime Executive
- [Army to Field Roving Battery Packs in Bid to Trim Fossil-Fuel Use](#)
15 June 2023, Defense One

- [**A once-shuttered California mine is trying to transform the rare-earth industry**](#)
15 June 2023, Grist
- [**Biden Calls Climate Change an Existential Threat**](#)
15 June 2023, Military.com
- [**The Climate Crisis Puts Geopolitical Security At Risk**](#)
15 June 2023, Forbes
- [**Historic German national security strategy sees beyond military**](#)
15 June 2023, Breaking Defense
- [**China's Ecological Migration from the Ground Up**](#)
15 June 2023, New Security Beat
- [**This U.S. military base says it is ready for any enemy – including climate change**](#)
14 June 2023, The Washington Post
- [**China ramps up coal power while pushing for renewables**](#)
14 June 2023, Financial Times
- [**New Zealand Says New NATO Partnership to Cover Climate Change, Security**](#)
14 June 2023, U.S News & World Report
- [**Is India's renewable energy push a threat to food security?**](#)
14 June 2023, Devex
- [**Energy security in a fast-moving market**](#)
14 June 2023, Euronews
- [**Military academies adopt climate science programs**](#)
14 June 2023, Politico
- [**Event Recap – Climate As National Security: Considerations for the Climate Conversation**](#)
14 June 2023, American Security Project
- [**Building a blueprint for zero-emissions agriculture**](#)
13 June 2023, Carnegie Science
- [**Climate shocks set to worsen already fragile hotspots, Security Council hears**](#)
13 June 2023, United Nations Release
- [**Rethinking Population, Climate and Health: Focusing on Solutions**](#)
13 June 2023, New Security Beat
- [**The Promise and Potential of Solar Canals**](#)
13 June 2023, Environmental and Energy Study Institute
- [**Wildfire Haze Adds To New York's Climate Change Planning Needs**](#)
13 June 2023, Inside Climate News
- [**Conflict, Crisis and Peacebuilding: Afghanistan and Regional Water Security**](#)

12 June 2023, New Security Beat

- [Net-zero targets are more popular than ever, but less than 5% are credible](#)
12 June 2023, Grist
- [45 governments endorse goal of doubling global energy efficiency progress by 2030](#)
9 June 2023, Zawya
- [Climate Change Threatens Military Readiness](#)
8 June 2023, Newswise
- [This unlikely fuel could power cleaner trucks and ships](#)
8 June 2023, MIT Technology Review
- [Holness wants region to consider impact of climate change on national security](#)
7 June 2023, The Gleaner (Jamaica)
- [Unlocking the ocean's secret: Natural carbon capture](#)
23 May 2023, USC News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Policy Brief:** [Principles and Guidelines for a Just and Inclusive Energy Transition](#)
International Forum for Environment, Sustainability, and Technology, June 2023
- **Report:** [Prospects for U.S.-Saudi Nuclear Energy Cooperation](#)
Congressional Research Service, 9 June 2023
- **Report:** [Financing Climate Tech in India: Insights from a Dialogue with Entrepreneurs and Investors](#)
Observer Research Foundation, June 2023
- **Report:** [Climate-Tech to Watch: Clean Steel](#)
Information Technology & Innovation Foundation, June 2023
- **Podcast:** [Rewind: Saket Soni on the People Who Make Disaster Recovery Possible](#)
Climate One, 16 June 2023
- **Slide Deck:** [CBO's Role in the Federal Budget Process and Its Work Assessing Climate Change and Related Policies](#)
Congressional Budget Office, 6 June 2023
- **Paper:** [Climate Change Requires New Approaches to Disaster Planning and Response](#)
Belfer Center for Science and International Affairs, June 2023
- **Report:** [Local Peacebuilders' Perspectives on Climate, Peace and Security](#)
ReliefWeb, 16 June 2023
- **Report:** [Central and South American, Caribbean Islands, June-August 2023: El Niño Outlook](#)
Global Water Security Center, June 2023

- **Paper:** [Addressing the Intergenerational Tension in a Rapidly Changing Climate: A Cast Study of the MENA Region Young Professionals Group \(YPG\) and Policy Recommendations](#)
Euromesco, June 2023
- **Report:** [Paying the Price: Taxpayers Footing the Bill for Increasing Costs of Climate Change](#)
Taxpayers for Common Sense, 7 June 2023

EVENTS

- [Climate Intervention in an Earth Systems Science Framework: A Workshop](#)
20 and 22 June 2023 / Washington DC and Virtual
National Academies of Sciences, Engineering and Medicine
- [Climate Conversations: Artificial Intelligence](#)
22 June 2023 / 3:30 – 4:45 pm ET / 12:30 – 1:45 pm PT / Virtual
National Academies of Sciences, Engineering and Medicine
- [The Global Digital Transformation in the Energy Sector Forum 2023](#)
26-28 June 2023 / Amsterdam, Netherlands and Virtual
Amsterdam Energy Summit
- **[NEW]** [Carbon Utilization Infrastructure, Markets, Research and Development](#)
27-29 June 2023 / Virtual
National Academies of Sciences, Engineering and Medicine
- [DOD Climate Resilience Workshop 2023](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- [DOD Energy & Power Summit](#)
12-13 July 2023 / National Harbor, MD
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- [Hydrogen: A rising pillar of our clean energy future](#)
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- [Atmospheric Methane Removal: Needs, Challenges and Opportunities](#)
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- [Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board
- [Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)
24 – 26 January 2024 / Aveiro, Portugal & Virtual

University of Aveiro (Portugal)

OPPORTUNITIES

- [**Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business**](#)
Proposals due 14 October 2023.
- [**Call for Input: Atmospheric Methane Removal: Technical Input**](#)
Submit input by 31 October 2023.

Dear CSN Members,

Apologies for the delayed release this week!

Below is the climate security update for this week, including the special section on Ukraine.

Hope everyone has a nice weekend.

Kristen

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NPS Climate & Security Network Weekly Update: 23 June 2023

Special Section: Ukraine

- The New York Times: [War in Ukraine Is Worsening Effects of Climate Change, Kerry Says](#)
- ABC News: [Germany prods China on Ukraine war as leaders pledge to work together on climate](#)
- Independent: [Tackling two enemies at once – Ukraine’s top scientist on the battles to keep Putin’s army and climate change at bay](#)
- Ukrinform: [Occupiers cause damage to Ukrainian environment worth over €52B – Ministry of Environment](#)
- The Kyiv Independent: [Clean energy, green jobs as keys to securing Ukraine’s energy security](#)
- Swiss Info: [New Swiss foreign aid strategy prioritises Ukraine and climate change](#)
- Yahoo News: [Ukraine and UK agreed on a fund worth 62 million pounds to strengthen energy security](#)

NEWS

- [The Significance of the Coming El Niño: Understanding the Science and Preparing for Its Impacts](#)
23 June 2023, New Security Beat
- [Paris climate summit ends without global shipping tax deal](#)
23 June 2023, Al Jazeera
- [Inside the search for \\$900 billion to fight climate change](#)
23 June 2023, Politico
- [Climate Security at the 2023 Spring Meetings of the World Bank Group and the International Monetary Fund](#)
22 June 2023, Center for Climate & Security
- [Supreme Court water ruling deals blow to Navajo Nation](#)
22 June 2023, E&E News

- [**Nigeria's industry is rising to the twin challenge of decarbonization and energy security**](#)
22 June 2023, Zawya
- [**NATO Wants to Fight Climate Change. Its Chief Says the Trick Is to Make Armies Green but Strong**](#)
21 June 2023, Military.com
- [**The U.S. Strategy to Hinder China's Critical Technologies**](#)
21 June 2021, American Security Project
- [**Welcome Aboard, Read Adm. Rothenhaus! New CNR Takes Help at Office of Naval Research**](#)
21 June 2023, U.S. Department of the Navy Release
- [**These Companies Want to Beam Space-Based Solar Power to Earth**](#)
21 June 2023, Gizmodo
- [**Experts agree: Climate change is a weapon of mass destruction**](#)
21 June 2023, Salon
- [**Desperate need for clean energy surge in the Global South: IEA**](#)
21 June 2023, Al Jazeera
- [**Beyond the UN Security Council: Can the UN General Assembly tackle the climate-security challenge?**](#)
20 June 2023, Stockholm International Peace Research Institute
- [**Biden team cracks down on federal building emissions**](#)
20 June 2023, E&E News
- [**The Geopolitics of Climate Change: China and the United States at the UN Security Council**](#)
20 June 2023, Center for Climate & Security
- [**Hurricanes push heat deeper into ocean than scientists realized, boosting long-term ocean warming, new research shows**](#)
20 June 2023, The Conversation
- [**China-U.S. climate partnership vital despite differences, Kerry says**](#)
19 June 2023, Reuters
- [**Cruising to Nome: The first U.S. deep water port for the Arctic to host cruise ships, military**](#)
18 June 2023, AP News
- [**Scientists discover lithium replacement that may revolutionize EV batteries: '99.7% efficient after over 400 hours of use'**](#)
18 June 2023, MSN.com
- [**What will it take to bolster food security in one of the world's most climate-vulnerable regions?**](#)
18 June 2023, Ag Funder

- [Hanscom AFB leaders invest in energy resiliency](#)
18 June 2023, Air Force Release
- [Breaching 1.5°C / 2.7° F. Climate limit would jeopardize Security, says new German govt Strategy](#)
17 June 2023, Informed Comment
- [Four alarming charts that show just how extreme the climate is right now](#)
17 June 2023, CNN
- [Solar geoengineering as the “airbags” of a robust climate response](#)
16 June 2023, Stanford Woods Institute for the Environment
- [Building a Safer North: Climate Security Risks in the Canadian Arctic](#)
15 June 2023, The Maritime Executive
- [Climate shocks set to worsen already fragile hotspots, Security Council hears](#)
13 June 2023, United Nations News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Brief:** [Climate security in Dutch international climate policy – From ambition to implementation](#)
Planetary Security Initiative and Clingendael Netherlands Institute of International Relations, June 2023
- **Video:** [Climate Security and Violent Extremism: From Research to Climate-based Risk Assessments and Programming](#)
United Nations Web TV, 21 June 2023
- **Monthly Report:** [May 2023 Global Climate Report](#)
National Centers for Environmental Information, June 2023
- **Report:** [Preparing United States Critical Infrastructure for Today’s Evolving Water Crises](#)
The President’s National Infrastructure Advisory Council, June 2023 (*Note: Pre-decisional*)
- **Podcast:** [A road map to funding climate change solutions?](#)
BBC World Business Report, 23 June 2023
- **Conference Proceedings:** [Resilience of People and Ecosystems under Climate Stress](#)
Libreria Editrice Vaticana, June 2023
- **Brief:** [How to handle climate security and trade in times of multiple crises](#)
Stockholm Environment Institute, 19 June 2023
- **Podcast:** [Cory Booker: Taking on Big Ag and Going Big on Climate](#)
Climate One, 23 June 2023
- **Study:** [The Limits to Adaptation in the Context of Climate Security in the Pacific](#)
Relief Web, 19 June 2023
- **Video:** [Climate Change, Peace and Security – Security Council, 9345th Meeting](#)

United Nations Web TV, 13 June 2023

EVENTS

- [**The Global Digital Transformation in the Energy Sector Forum 2023**](#)
26-28 June 2023 / Amsterdam, Netherlands and Virtual
Amsterdam Energy Summit
- [**Carbon Utilization Infrastructure, Markets, Research and Development**](#)
27-29 June 2023 / Virtual
National Academies of Sciences, Engineering and Medicine
- **[NEW]** [**It Takes a Village: Building a Culture of Energy Efficiency in Your Facilities**](#)
6 July 2023 / 11 am ET / 8 am PT / Virtual
U.S. Department of Energy
- [**DOD Climate Resilience Workshop 2023**](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
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12-13 July 2023 / National Harbor, MD
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13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board
- [**DOD Energy & Environment Innovation Symposium**](#)
28 November – 1 December 2023 / Arlington, VA
Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- [**Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability**](#)
24 – 26 January 2024 / Aveiro, Portugal & Virtual
University of Aveiro (Portugal)

OPPORTUNITIES

- **[NEW]** [**Army War College Research Fellow: Environmental Impacts to U.S. strategic objectives in the Indo-Pacific**](#)
Applications due 21 July 2023.

- **[NEW] [Veterans Advanced Energy Fellowship](#)**
Applications due 31 July 2023.
- **[Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business](#)**
Proposals due 14 October 2023.
- **[Call for Input: Atmospheric Methane Removal: Technical Input](#)**
Submit input by 31 October 2023.

Dear CSN Members,

Below is the climate security update for this week, including the special section on Ukraine.

On this final day of June, I wanted to highlight a couple of links:

For my soccer-crazy colleagues:

- [How one soccer team makes climate progress its goooal](#)
30 June 2023, Grist

And, for some around the world news:

- [UN adopts world-first high seas treaty protecting marine biodiversity, and other nature and climate stories you need to read this week](#)
26 June 2023, World Economic Forum

Hope everyone has a nice weekend and happy July 4th.

Kristen

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NPS Climate & Security Network Weekly Update: 30 June 2023

Special Section: Ukraine

- Planetary Security Initiative: [Key insights into the Nova Kakhovka dam destruction: an initial analysis](#)
- Defense News: [Pentagon uses Ukraine funds to split supply chains from Russia, China](#)
- Mirage News: [War in Ukraine Boosts Acceptance of Heating Sector Transformation](#)
- DW: [Ukraine gas storage could be key to EU energy security](#)
- Clingendael: [Rethinking European Energy Relations in Times of Crisis](#)

NEWS

- [Supreme Court ruling entangles Biden's environmental justice efforts](#)
29 June 2023, E&E News
- [South Florida military bases draft plan for climate risk. It's a national security threat](#)
29 June 2023, Miami Herald
- [Extreme heat persists for millions of Americans, with more to come](#)
29 June 2023, The Washington Post
- [America's surprising energy and climate views](#)
29 June 2023, Axios
- [A community leader on why aid work is necessary to build climate resilience](#)
29 June 2023, Grist

- [**In the Name of Energy Security, China Is Doubling Down on Both Renewables and Coal**](#)
29 June 2023, The Diplomat
- [**The Global Impact of Solar Wind Energy on Energy Security and Independence**](#)
29 June 2023, Energy Portal (EU)
- [**Climate change: China's green power surge offers hope on warming**](#)
28 June 2023, BBC
- [**Juice far from home: DIU names winners in Stable Tactical Expeditionary Electric Power program**](#)
28 June 2023, Breaking Defense
- [**Once-Bold UK Is Now a Laggard in Climate Fight**](#)
28 June 2023, The Washington Post
- [**The EU wants to crack down on rogue efforts to alter the atmosphere**](#)
28 June 2023, The Verge
- [**How a small island nation is taking climate change to the world's highest court**](#)
27 June 2023, Grist
- [**Fort Liberty installs floating solar panels**](#)
27 June 2023, Yale Climate Connections
- [**Canada launches first-ever climate adaptation strategy**](#)
27 June 2023, Reuters *[see strategy link in Resources section below]*
- [**Legal protection essential for people displaced by climate change: UN expert**](#)
27 June 2023, United Nations News
- [**Climate change: Deforestation surges despite pledges**](#)
27 June 2023, BBC
- [**European Parliament committee rejects climate law over food security concerns**](#)
27 June 2023, The National News
- [**Extreme heat will cost the US \\$1 billion in health care costs – this summer alone**](#)
27 June 2023, Grist
- [**Solar Is Booming in the California Desert, if Water Issues Don't Get in the Way**](#)
26 June 2023, Inside Climate News
- [**National Guard warns proposed wind farm poses safety threat**](#)
26 June 2023, Times Observer (PA)
- [**No Longer "Exceptional" Events – Lessons from the Canadian Wildfire Smoke Drifting into the United States**](#)
26 June 2023, American Security Project
- [**Water infrastructure is often our first line of defense in dealing with climate change**](#)
25 June 2023, C Tech

- [To reach net-zero emissions, American homes need an electric makeover](#)
22 June 2023, Grist
- [Barbados PM fights for shake-up of global climate finance](#)
22 June 2023, BBC
- [Climate and Security: joint press release following the meeting between the EU, US and NATO](#)
21 June 2023, European Commission
- [The feds move to speed up development of wind and solar on public land](#)
21 June 2023, Grist
- [Duke Launches Heat Policy Innovation Hub to Safeguard Communities](#)
21 June 2023, Duke Nicholas Institute for Energy, Environment & Sustainability
- [The Future of Nuclear Power in a Low-Carbon World](#)
20 June 2023, National Academies of Sciences, Engineering, and Medicine
- [Tracking climate securitization: framings of climate security by civil and defense ministries](#)
5 June 2023, Planetary Security Initiative

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Majorities of Americans Prioritize Renewable Energy, Back Steps to Address Climate Change](#)
Pew Research Center, 28 June 2023
- **Report:** [Statistical Review of World Energy](#)
Energy Institute, June 2023
- **Report:** [Light-Duty Vehicles, Air Pollution and Climate Change](#)
Congressional Research Service, 21 June 2023
- **Paper:** [Some Like It Hot: Mexico's Ambivalent Policy Toward Climate Change](#)
Baker Institute for Public Policy, 15 June 2023
- **Briefer:** [Leadership in the Polycrisis: How UK Defense Training Can Help Us Navigate a Future of Unprecedented Environmental Disruption](#)
Center for Climate and Security, 29 June 2023
- **Strategy:** [Canada's National Adaptation Strategy](#)
Government of Canada, June 2023
- **Policy Paper:** [What Counts as Climate? Preliminary Evidence from the World Bank's Climate Portfolio](#)
Center for Global Development, June 2023
- **Joint Statement:** [Climate, Peace and Security / Somalia](#)
Permanent Mission of France to the UN, 22 June 2023
- **Report:** [Displaced to Cities: Conflict, Climate Change and Rural-To-Urban Migration](#)

United States Institute of Peace, June 2023

- **Policy Brief:** [Climate security in Dutch international climate policy – From ambition to implementation](#)
Planetary Security Initiative, June 2023
- **Report:** [Mitigate, Adapt, Prepare: A Climate Security Agenda for the ASEAN Defence Ministers' Meeting](#)
Nanyang Technological University, June 2023
- **Policy Brief:** [Renewable relations: A strategic approach to European energy cooperation with the Gulf states](#)
European Council on Foreign Relations, 16 June 2023
- **Report:** [Global Food Security: Selected Multilateral Efforts](#)
Congressional Research Service, 21 June 2023
- **Paper:** [North Korea's Energy Sector: Hydropower Stations and Policy](#)
38 North, 14 June 2023
- **Report:** [Oil 2023: Analysis and forecast to 2028](#)
International Energy Agency, June 2023
- **Paper:** [Increasing Cooperation for Sustainable Development: Imperatives for India's G20 Presidency](#)
Observer Research Foundation, 19 June 2023
- **Research Letter:** [Evidence for Large Increases in Clear-Air Turbulence Over the Past Four Decades](#)
American Geophysical Union, June 2023
- **Report:** [AUKUS and critical minerals: Hedging Beijing's pervasive, clever and coordinated statecraft](#)
Australian Strategic Policy Institute, June 2023
- **Policy Brief:** [Impact of COVID-19 and climate change on debt of Pacific Island countries](#)
Economic and Social Commission for Asia and the Pacific, 19 June 2023
- **Report:** [Closing the Trucking Gaps: Priorities for the Department of Energy's RD&D Portfolio](#)
Information Technology & Innovation Foundation, June 2023
- **Paper:** [From Threat to Opportunity: Harnessing Climate Change to Build a Prosperous Future for Iraq and the Region](#)
Istituto Affari Internazionali, June 2023
- **Paper:** [A Stronger Italian-German Partnership: Closer Cooperation in Time of Energy Crisis](#)
Istituto Affari Internazionali, June 2023

EVENTS

- [**It Takes a Village: Building a Culture of Energy Efficiency in Your Facilities**](#)
6 July 2023 / 11 am ET / 8 am PT / Virtual
U.S. Department of Energy
- [**DOD Climate Resilience Workshop 2023**](#)
10-13 July 2023 / St. Louis, MO
Office of the Assistant Secretary of Defense for EI&E
- [**DOD Energy & Power Summit**](#)
12-13 July 2023 / National Harbor, MD
Defense Strategies Institute
- [**Hydrogen: A rising pillar of our clean energy future**](#)
13 July 2023 / 1:00 pm ET / 10:00 am PT / Virtual
C3E
- [**\[NEW\] Greenhouse Gas Emissions from Wildland Fires: A Workshop**](#)
13 – 15 September 2023 / Washington, D.C. and Virtual
National Academies of Sciences, Engineering and Medicine
- [**\[NEW\] Berlin Climate and Security Conference**](#)
6 October 2023 / Berlin, Germany
adelphi, Germany Federal Foreign Office, and Climate Diplomacy
- [**Atmospheric Methane Removal: Needs, Challenges and Opportunities**](#)
17-18 October 2023 / Washington DC and Virtual
National Academies of Sciences, Engineering, and Medicine
- [**Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges**](#)
13-15 November 2023 / Washington DC
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board
- [**DOD Energy & Environment Innovation Symposium**](#)
28 November – 1 December 2023 / Arlington, VA
Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- [**\[NEW\] AGU 2023 / American Geophysical Union Fall Meeting**](#)
11 – 15 December 2023 / San Francisco, CA & Virtual
American Geophysical Union
- [**Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability**](#)
24 – 26 January 2024 / Aveiro, Portugal & Virtual
University of Aveiro (Portugal)

OPPORTUNITIES

- [**\[NEW\] Call for Applications: Climate Security Fellows 2023-2024**](#)
Center for Climate and Security / **Applications due 15 July 2023.**

- [Army War College Research Fellow: Environmental Impacts to U.S. strategic objectives in the Indo-Pacific](#)
Applications due 21 July 2023.
- [Veterans Advanced Energy Fellowship](#)
Applications due 31 July 2023.
- **[NEW]** [Call for Proposals: Operational Energy Management System](#)
Commanding Energy proposals due 1 August 2023.
Operational Energy Prototyping Fund proposals due 1 August 2023.
Aviation and Space Efficiencies proposals due 1 November 2023.
Ground Vehicle and Hybridization proposals due 2 February 2024.
- **[NEW]** [Competitive Funding Opportunity: NOAA Climate Resilience Regional Challenge](#)
Letters of intent due 21 August 2023.
- [Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business](#)
Proposals due 14 October 2023.
- [Call for Input: Atmospheric Methane Removal: Technical Input](#)
Submit input by 31 October 2023.