

Dear CSN Members,

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

As noted in the mid-week email, it was a big week for the DOD Services. The Army released its Climate Strategy Implementation Plan and the Air Force released its Climate Action Plan. Here are the links to the climate documents released so far; perspectives are in the special section below.

[Army Climate Strategy](#) (Feb 2022)

[Army Climate Strategy Implementation Plan](#) (Oct 2022)

[Air Force Climate Action Plan](#) (Oct 2022)

[Navy Climate Strategy](#) (May 2022)

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher

Faculty Associate-Research | Naval Postgraduate School

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

Office: 831.920.1090 | Cell: 401.714.4686

kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 7 October 2022

Special Section: Perspectives on Air Force & Army Climate Documents

- DOD Release: [DOD, Other Agencies Release Climate Adaptation Progress Reports](#)
- Air Force Release: [Department of the Air Force rolls out plan addressing climate change](#)
- Army Release: [U.S. Army Releases its Climate Strategy Implementation Plan](#)
- Defense One: [Army Climate Plan Relies on Technology That Doesn't Exist Yet](#)
- NBC News: [The Air Force has released its first plan to reduce its carbon footprint and adapt to climate change](#)
- The Hill: [Air Force, Army release climate action plans](#)
- Defense News: [Blended-wing tanker, nuke reactors, electric cars in USAF climate plan](#)
- Politico: [The lawyer getting the Army ready for climate change](#)
- Breaking Defense: [Racing to 'adapt,' Army estimates climate plan will cost over \\$6.8 B over 5 years](#)
- National Defense: [Climate Strategy Will Increase Warfighting Capabilities, Army Official Says](#)

Special Section: Ukraine

- VOA: [What War in Ukraine Means for Asia's Climate Goals](#)
- Nature: [Nature's Take: how the war in Ukraine is impacting science](#)
- International Crisis Group: [Responding to Ukraine's Displacement Crisis: From Speed to Sustainability](#)
- Center for a New American Security: [Russia in the Arctic: Gauging How Russia's Invasion of Ukraine Will Alter Regional Dynamics](#)

- Foreign Policy Research Institute: [The Russian-Ukrainian War Triggers an Energy Revolution](#)
- CEPA: [Russia's Militarization of the Black Sea: Implications for the United States and NATO](#)
- European Parliamentary Research Service:
 - [EU entry restrictions in relation to Russia's war on Ukraine](#)
 - [Russia's War on Ukraine fuels energy crisis](#) *[includes links from July – Sept]*

NEWS

- [The U.S. needs a unified energy industry to deal with soaring oil prices, OPEC+ and climate change](#)
7 October 2022, Market Watch
- [The Latest Menace on Supply Chains Is Mother Nature](#)
6 October 2022, Bloomberg
- [The Role of Human Rights Institutions in Tackling Climate Change: A Case Study of the Philippines](#)
5 October 2022, Sabin Center for Climate Change Law
- [How climate change fuels conflicts in West Africa](#)
4 October 2022, Inter Press Service
- [We are at a crossroads in history: Africa can and must be a leader in clean energy](#)
4 October 2022, The Guardian
- [Protecting Human Rights in DRC Cobalt Mines: A U.S. Priority in a Green Transition](#)
4 October 2022, New Security Beat
- [Countries bound for COP27 must make climate action 'the top global priority' – UN Chief](#)
3 October 2022, UN Sustainable Development Group
- [DOD Office Looks to Effects of Climate Change on Department](#)
3 October 2022, Department of Defense Release
- [Countries bound for COP27 must make climate action 'the top global priority'](#)
3 October 2022, United Nations Release
- [Just and Comprehensive Action on Climate Security in Australia and Beyond: An Interview with Cheryl Durant](#)
3 October 2022, Center for Climate & Security
- [Department of the Air Force recognizes Energy Action Month](#)
3 October 2022, Air Force Material Command
- [Did Europe Move To Renewables Too Fast, Too Slow, Or Just Right?](#)
3 October 2022, Forbes
- [Biden pledge to make federal fleet electric faces slow start](#)
2 October 2022, AP News

- [Establishing a national green bank with the GHG Reduction Fund will reduce emissions, promote environmental justice](#)
28 September 2022, Atlantic Council
- [Engineering the Transition to Net-Zero Carbon Emissions](#)
27 September 2022, National Academies of Science, Engineering, and Medicine
- [Simultaneous climate hazards are supercharging global systemic risk](#)
20 September 2022, Australian Strategic Policy Institute

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Video:** [“We have no time to lose” – Rescuing the world’s coral reefs](#)
60 Minutes, 25 September 2022 [DARPA-funded project]
- **Video:** [The Navy’s surprising energy source that could power the world](#)
Freethink, 29 September 2022
- **GAO Snapshot:** [Climate Change: Enhancing Federal Resilience](#)
U.S. Government Accountability Office, September 2022
- **Report:** [Greenhouse Gas Emissions Information for Decision Making](#)
National Academies of Sciences, Engineering and Medicine, October 2022
- **Report:** [Accelerating Decarbonization through Trade in Climate Goods and Services](#)
World Economic Forum, 20 September 2022
- **Paper:** [Renewable Energy and Climate Action: The Future of Japan and Sweden Cooperation](#)
Institute for Security & Development Policy, September 2022
- **Brief:** [Make the Social Climate Fund a game changer to tackle energy poverty](#)
Jacque Delors Institute, September 2022
- **Report:** [A Path to Net Zero: Opportunities for U.S.-ROK Technology Collaboration](#)
The National Bureau of Asian Research, September 2022
- **Report:** [Redefining the Netherlands’ Energy Future: Societal Implications of the Nearing End of Dutch Natural Gas](#)
Center for Energy & Climate, September 2022
- **Report:** [Accessing Critical Minerals: Between a Rock and a Hard Place](#)
Potomac Institute for Policy Studies, September 2022
- **Report:** [A Roadmap for Climate Action in Latin America and the Caribbean, 2021-2025](#)
World Bank Group, September 2022
- **Report:** [Water Governance in Iraq: Enabling a Gamechanger](#)
The Hague Center for Strategic Studies, September 2022

EVENTS

- **[NEW]** [Key Findings from the Newest Global Assessment Report on Climate Change](#)
12 October 2022 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Virtual

Environmental and Energy Study Institute

Note: This is part of a EESI Briefing Series on [What Congress Needs to Know about COP27](#).

Other upcoming events include:

[Climate Change Loss and Damage](#), 20 October 2022

[Natural Climate Solutions](#), 28 October 2022

[What's on the Table for the Negotiations?](#), 2 November 2022

- **[NEW] [Climate Conversations: Extreme Heat](#)**
20 October 2022 / 3 – 4 pm ET / Noon – 1 pm PT
National Academies of Sciences, Engineering, and Medicine
- **[115th U.S. Arctic Research Commission Meeting](#)**
24-25 October 2022 / Anchorage, AK
Interagency Arctic Research Policy Committee
- **[National Adaptation Forum](#)**
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[CSN] [Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)**
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network & Energy Academic Group
- **[Recalibrating what it will take to achieve net-zero](#)**
27 October 2022 / 10 am ET / 7 am PT / Virtual
McKinsey Sustainability & The Economist
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)**
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- **[Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[Call for Nominations: Study on Potential Environmental Effects of Nuclear War](#)**
Nominations due 16 October 2022.
- **[National Climate Assessment Call for Scenarios](#)**
Scenarios due 31 October 2022.

- **[NEW] [Request for Information: Ocean Climate Action Plan](#)**
Comments due 18 November 2022.
- **[NEW] [DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability](#)**
Responses to the RFI due 30 November 2022.

Dear CSN Members,

Lots of good resources and information this week! This week's updates in climate and security include 3 special sections – one on Ukraine and two on recently released documents: the U.S. Arctic Strategy and the National Security Strategy.

Two other notable releases:

- DOD released its [Climate Adaptation Plan 2022 Progress Report](#).
- US AID released its [2022 U.S. Global Water Strategy](#).

Happy Reading!

Kristen

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

NPS Climate & Security Network Weekly Update: 14 October 2022

Special Section: National Security Strategy

- [2022 National Security Strategy](#)
- DoD Release: [Statement from Secretary of Defense Lloyd J. Austin III on Release of National Security Strategy](#)
- Defense One: [New National Security Strategy Returns Focus to Rules, Partnerships and American Leadership](#)
- Breaking Defense: [Biden's National Security Strategy balances military threats against climate change, inflation](#)
- Axios: [Biden's national security strategy focuses on climate change](#)
- Energy News Network: [Climate at heart of new national security plan](#)

Special Section: U.S. Arctic Strategy

- [National Strategy for the Arctic Region](#)
- [Fact Sheet: The United States' National Strategy for the Arctic Region](#)
- High North News: [New US Arctic Strategy Foreshadows Increasing Hurdles for Cooperation in a More Complex Region](#)
- The Hill: [US Arctic strategy calls for more military exercises to counter Russia, China](#)
- Space News: [U.S. Arctic strategy calls for investment in climate monitoring, communications technologies](#)
- Defense News: [White House Arctic strategy calls for enhanced military presence](#)
- Global Times: [US' new Arctic strategy seeks to 'militarize' region; intl rules needed for peaceful devt](#)
- Alaska Public Media: [White House Arctic Strategy puts new emphasis on national defense, Russia](#)

Special Section: Ukraine

- The Washington Post: [Norway is portrayed as both hero and villain in Europe's energy crisis](#)
- Reuters: [Climate extremes pose as big a threat to power system as Ukraine war](#)
- DW: [Pakistan: Bilawal Bhutto calls for climate justice, rejects Western pressure over Ukraine](#)
- AP News: [Weather chief: Ukraine war may be 'blessing' for climate](#)
- Euronews: [War has inflicted €36bn damage on Ukraine's environment](#)
- The Hill: [Ukraine pauses electricity exports](#)

NEWS

- [Securitizing Climate Change: How to Not Think about the Climate Crisis](#)
12 October 2022, PIP Global Observatory
- [Why agencies buy less clean power under Biden than Trump](#)
12 October 2022, E&E News
- [Army planning hybrid tactical vehicle tests next year](#)
12 October 2022, Breaking Defense
- [UN countries adopt 'aspirational' net-zero goal for aviation](#)
12 October 2022, Grist
- [Climate change threatens supercomputers](#)
11 October 2022, Science
- [Climate reparations are on the agenda at COP27 – whether wealthy nations like it or not](#)
11 October 2022, Grist
- [Do You Care About U.S. National Security? Then You Care About Global Food Security](#)
11 October 2022, Forbes
- [Army releases five-year microgrid implementation plan](#)
10 October 2022, Microgrid Knowledge
- [Sri Lanka, Japan sign agreement on low carbon growth partnership](#)
10 October, 2022, Economy Next
- [The US Military Is Buying Ultium Battery Packs From GM Defense](#)
10 October 2022, Clean Technica
- [Climate Change Challenging South Asia: A way forward to Adaptation and Mitigation](#)
10 October 2022, Modern Diplomacy
- [Florida Commits \\$1 Billion to Climate Resilience. But After Hurricane Ian, Some Question the State's Development Practices](#)
8 October 2022, Inside Climate News
- [Why the Pentagon is the World's Biggest Single Greenhouse Gas Emitter](#)
7 October 2022, Mother Jones

- [The Army and West Point creating a climate change curriculum to focus on national security implications](#)
7 October 2022, Federal News Network
- [Developers break ground on new Oahu solar farm that will collect energy, but also store it](#)
7 October 2022, Hawai'i News Now
- [What the US climate bill means for climate diplomacy and geopolitics](#)
5 October 2022, China Dialogue
- [Next Generation AbramsX Tank Will Have Hybrid Power Plant](#)
5 October 2022, The Drive
- [Water security and the Nagorno-Karabakh conflict](#)
4 October 2022, Planetary Security Initiative
- [As COP27 Approaches, Report Recommends New Global Emissions Information Clearinghouse, Steps to Improve Accuracy and Usability of Information](#)
4 October 2022, National Academies of Sciences, Engineering, and Medicine

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Summary:** [Assessing the U.S. Climate in September 2022](#)
National Centers for Environmental Information, 11 October 2022
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
NPS Department of Oceanography, 1 October 2022
- **Podcast:** [Countdown to COP27: Feeling the Heat](#)
Climate One, 14 October 2022
- **Article:** [Climate change can be seen through a disaster medicine lens](#)
Medical Journal of Australia, 10 October 2022
- **Report:** [Extreme Heat: Preparing for the Heatwaves of the Future](#)
United Nations and Red Cross, October 2022
- **Book:** [The Pentagon, Climate Change and War: Charting the Rise and Fall of U.S. Military Emissions](#)
MIT Press, October 2022
- **Briefing Note:** [IUU Fishing: Arctic Ocean](#)
American Security Project, 12 Oct 2022
- **Article:** [Solving twin crises](#) (*global environmental crises and conflict*)
Nature Sustainability, 10 October 2022
- **Video:** [Hybrid Warfare and Climate Change Conference 2022](#)
U.S. Naval War College, October 2022
- **Report:** [Investing in Climate Disaster: World Bank Group Finance for Fossil Fuels](#)
The Big Shift Global, 6 October 2022

- **Report: [Oil in the Sea IV: Inputs, Fates and Effects](#)**
National Academies of Sciences, Engineering, and Medicine, October 2022

EVENTS

- **[Climate Change Loss and Damage](#)**
20 October 2022 / 11:00 am – 12:30 pm ET / 8 – 9:30 am PT / Virtual
Environmental and Energy Study Institute
Note: This is part of a EESI Briefing Series on [What Congress Needs to Know about COP27](#).
Other upcoming events include:
[Natural Climate Solutions](#), 28 October 2022
[What's on the Table for the Negotiations?](#), 2 November 2022
- **[\[NEW\] Europe Launch of the Ecological Threat Report 2022](#)**
20 October 2022 / 10:30 am – 12:00 pm CEST / Virtual
Institute for Economics & Peace
- **[Climate Conversations: Extreme Heat](#)**
20 October 2022 / 3 – 4 pm ET / Noon – 1 pm PT
National Academies of Sciences, Engineering, and Medicine
- **[115th U.S. Arctic Research Commission Meeting](#)**
24-25 October 2022 / Anchorage, AK
Interagency Arctic Research Policy Committee
- **[National Adaptation Forum](#)**
25 - 27 October 2022 / Baltimore, MD
EcoAdapt
- **[\[CSN\] Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)**
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network & Energy Academic Group
- **[Recalibrating what it will take to achieve net-zero](#)**
27 October 2022 / 10 am ET / 7 am PT / Virtual
McKinsey Sustainability & The Economist
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[\[NEW\] \[CSN\] Challenges of Climate Security & Governance Competition](#)**
30 November 2022 / 1200 – 1300 PT / Virtual
Details and links forthcoming.
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)**

26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners

- [**Fifteenth International Conference on Climate Change: Impacts and Responses**](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [**National Climate Assessment Call for Scenarios**](#)
Scenarios due 31 October 2022.
- [**Request for Information: Ocean Climate Action Plan**](#)
Comments due 18 November 2022.
- [**DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability**](#)
Responses to the RFI due 30 November 2022.
- [**\[NEW\] U.S. Global Change Research Program Seeks Art for Fifth National Climate Assessment**](#)
Submissions due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine. Below is also a special section on COP27 which is coming up in a few weeks.

Also, I hope you'll be able to join the final briefing in the CSN Net Zero briefing series coming up next week:

[\[CSN\] Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)
25 October 2022 / 1200 – 1300 PT / Virtual

Hope everyone has a nice weekend,

Kristen

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

NPS Climate & Security Network Weekly Update: 21 October 2022

Special Section: Ukraine

- National Academies of Science, Engineering, and Medicine: [Global Food Security and Sustainability Implications of the Ukraine Conflict](#)
- DW: [Ukraine Updates: Third of Power Stations Destroyed](#)
- Bloomberg: [G-20 Division Over War, Oil Laid Bare in Days-Late Statement](#)
- Deccan Herald: [As energy war rages, India should intervene to resolve Ukraine conflict](#)
- Global Sisters Report: [War, climate change, inflation: Multiple crises have led to a boom in global hunger](#)
- Centre for Economic Policy Research: [Global Economic Consequences of the War in Ukraine](#)
- Hindustan Times: [Amid Ukraine war, EU reaffirms €7 billion vow to restore global food security](#)
- The Journal: [World hunger at 'catastrophic' levels amid 'toxic cocktail' of conflict, climate change, and Covid](#)

Special Section: COP27

- [U.S. State Department COP27](#)
- [Official Egyptian COP27 Website](#)
- United Nations Pages:
 - [Climate Action: COP27](#) (includes news, key themes)
 - [Climate Change Conference](#) (includes schedule, sessions, documents)
- Climate One Podcasts:
 - [Countdown To COP27: Feeling the Heat](#)
 - [Bonus COP 27 Preview: Egyptian Ambassador Wael Aboulmagd](#)
- Climate Council: [What you Need to Know Before COP27 in Egypt](#)

- Carbon Brief: [COP27: US supports climate reparations talks at UN climate summit](#)
- Forbes: [At COP 27 In Egypt, Climate Accountability Will Be Challenging](#)
- Arab News: [Water tops agenda of Egypt climate talks](#)
- S&P Global: [COP27 countdown No. 2: Will countries accelerate decarbonization goals?](#)

NEWS

- [Flood of Inequity: Confronting Climate Vulnerability Risk in China and Beyond](#)
20 October 2022, New Security Beat
- [Biden Administration Continues Phasedown of Super-Pollutants to Combat Climate Change and Boost U.S. Manufacturing](#)
20 October 2022, Environmental Protection Agency Release
- [DLA Energy Launches Carbon Pollution-Free Electricity Webpage](#)
20 October 2022, Defense Logistics Agency Release
- [Sea level rise, coastal resiliency and climate change a national security issue, Tim Kaine says](#)
20 October 2022, The Virginian-Pilot
- [After raising hope, Biden still lacks climate migration plan](#)
19 October 2022, AP News
- [Space-based solar power is getting serious – can it solve Earth’s energy woes?](#)
19 October 2022, Science
- [Treasury’s Federal Insurance Office Takes Important Step to Assess Climate-related Financial Risk – Seeks Comment on Proposed Data Call](#)
18 October 2022, U.S Department of the Treasury Release
- [An Unexpected Success for Czech Climate Litigation](#)
18 October 2022, Sabin Center for Climate Change Law
- [Treasury Dept. to Ask Insurers for Data on Climate Risks to Measure Coverage Affordability](#)
18 October 2022, The New York Times
- [Amount of ocean heat found to be accelerating and fueling extreme weather events](#)
18 October 2022, The Guardian
- [Why have billions of snow crabs disappeared from Alaskan waters?](#)
17 October 2022, New Scientist
- [An Alaska Air Base Wants to Build a Micro Nuclear Plant for Backup Power](#)
17 October 2022, Scientific American
- [New Climate Czar Signals Shift to Climate Law Implementation](#)
17 October 2022, Bloomberg Law
- [Blue hydrogen and the world’s energy systems](#)
17 October 2022, MIT News

- [China to boost development of new energy system, climate change governance: Xi](#)
17 October 2022, S&P Global
- [Climate change exposes lack of US preparedness in defending Arctic Ocean interests, US senator says](#)
16 October 2022, CNN
- [The cost to capture carbon? More water and electricity](#)
15 October 2022, The Guardian
- [NPS Meteorology Professor Awarded Buchan Prize for Seminal Work in Hurricane Prediction](#)
14 October 2022, NPS Release
- [Hybrid Electric Troop Transports Are Moving Toward the Battlefield](#)
14 October 2022, Defense One
- [20 Nations at High Risk From Global Warming Might Halt Debt Payments](#)
14 October 2022, The New York Times
- [DOD Exercise Points to Ways Western Hemisphere Can Combat Climate Change](#)
14 October 2022, DoD Release
- [Nuclear energy and global energy security in the new tripolar world order](#)
12 October 2022, Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Greenhouse Gas Emissions information for Decision Making](#)
National Academies of Science, Engineering, and Medicine, October 2022
- **Podcast:** [Two Hemispheres, One Story: Reporting on Rising Seas](#)
Climate One, 21 October 2022
- **Article:** [Past and future ocean warming](#)
Nature, 18 October 2022
- **Report:** [Resilience for Compounding and Cascading Events](#)
National Academies of Science, Engineering, and Medicine, October 2022
- **Strategy:** [National 5-Year Strategy for Combating Illegal, Unreported, and Unregulated Fishing 20220 – 2026](#)
U.S. Interagency Working Group on IUU Fishing
- **Reports from the Congressional Research Service:**
 - [Carbon Capture and Sequestration \(CCS\) in the United States](#) (5 Oct 2022)
 - [Greenhouse Gas Emissions and Sinks in U.S. Agriculture](#) (5 Oct 2022)
 - [Offshore Wind Provisions in the Inflation Reduction Act](#) (29 Sept 2022)
 - [U.S. International Climate Finance](#) (3 Oct 2022)
 - [Wildfire Statistics](#) (3 Oct 2022)
- **Report:** [China’s Course to Carbon Neutrality: Navigating the Decisive Decade](#)
Asia Society Policy Institute, September 2022

- **Paper:** [How Can We Protect “Climate Refugees”?](#)
Baker Institute for Public Policy, 13 October 2022
- **Paper:** [Red Light, Green Deal, Yellow Light: Biden’s Energy Roadmap](#)
Baker Institute for Public Policy, 5 October 2022
- **Report:** [Adapting Civil Protection to a Changing Climate](#)
Center for Security Studies, October 2022
- **Report:** [Cybersecurity Considerations for Distributed Energy Resources on the U.S. Electric Grid](#)
U.S. Department of Energy, October 2022
- **Paper:** [Geneva 25: Climate and Debt](#)
Centre for Economic Policy Research, 3 October 2022
- **Report:** [Electrification on the Path to Net Zero: A Comparison of Studies Examining Opportunities and Barriers in the United States](#)
Columbia Center on Global Energy Policy, October 2022
- **Report:** [In defence of borrowing for climate action](#)
Centre for European Reform, 12 October 2022
- **Report:** [Climate Change: Oversight of Federal Greenhouse Gas Emissions Reduction Efforts](#)
U.S. Government Accountability Office, September 2022

EVENTS

- **[CSN]** [Net Zero Briefing: Pathways to Net Zero for the Operational Navy](#)
25 October 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network & Energy Academic Group
- **[NEW]** [Unpacking the 2022 US National Strategy for the Arctic Region](#)
25 October 2022 / 2 – 3:15 pm ET / 11 am – 12:15 pm PT / Virtual
Wilson Center Polar Institute
- [Recalibrating what it will take to achieve net-zero](#)
27 October 2022 / 10 am ET / 7 am PT / Virtual
McKinsey Sustainability & The Economist
- **[NEW]** [Natural Climate Solutions](#)
28 October 2022 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Virtual
Environmental and Energy Study Institute
This is part of the What Congress Needs to Know About COP27 Briefing Series.
- **[NEW]** [Inspiring a Clean Energy Workforce](#)
1 November 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- **[NEW]** [COP27 and beyond: Leveraging US-African business partnerships to accelerate clean energy deployment](#)
2 November 2022 / 9:30 am ET / 6:30 am PT / Virtual

Atlantic Council

- **[\[NEW\] Understanding the US Military Services Climate Strategies](#)**
3 November 2022 / 2 - 3:30 pm ET / 11 – 12:30 PT / Virtual
Center for Climate & Security
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[\[CSN\] Challenges of Climate Security & Governance Competition](#)**
30 November 2022 / 1200 – 1300 PT / Virtual
Details and link forthcoming.
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)**
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- **[Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[National Climate Assessment Call for Scenarios](#)**
Scenarios due 31 October 2022.
- **[Request for Information: Ocean Climate Action Plan](#)**
Comments due 18 November 2022.
- **[DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability](#)**
Responses to the RFI due 30 November 2022.
- **[U.S. Global Change Research Program Seeks Art for Fifth National Climate Assessment](#)**
Submissions due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine. Below is also a special section on COP27 which begins 6 November.

A few special updates:

This week, the unclassified version of the [National Defense Strategy](#) was released. Climate change is incorporated throughout but especially in two sections: Climate Change and other Transboundary Challenges (pdf page 14/doc page 6) and Strengthen Resilience and Adaptability (pdf page 28/doc page 20). Here are a few perspectives on the Strategy: [DOD Release](#), [Defense One](#), [The Hill](#), [Breaking Defense](#).

Also, a shout out to two CSN members, **Paul Leary**, NPS Research Assistant Professor in Physics, and NPS Vice Provost for Research **Kevin Smith**, whose acoustic sensor work was featured in the Monterey County Weekly. Read at: [A new study on blue whales reveals what we can learn about nature by listening carefully](#).

Hope everyone has a nice weekend,

Kristen

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

NPS Climate & Security Network Weekly Update: 28 October 2022

Special Section: Ukraine

- Atlantic Council: [Putin's energy war against Europe also targets the US. Here's how Washington can fight back.](#)
- Fortune: [The energy crisis and Ukraine war have lowered expectations for COP27: Transitioning to renewables 'will take longer than anticipated'](#)
- Bloomberg: [A New Cold War Is Heating Up the Arctic](#)
- WHQR Public Media: [Not a clearcut issue: Wood pellets, carbon sequestration, and war in Ukraine](#)
- Daily Kos: [Water War in Ukraine – attacking infrastructure as military strategy](#)
- UN Refugee Agency: [Data shows impacts of rising prices and shrinking aid on forcibly displaced people](#)
- American Security Project: [The Integration of Ukrainian Refugees Into The EU](#)
- Impakter: [EU Clean Energy Surge: An Unexpected Result of the Ukraine War](#)

Special Section: Perspectives on COP27

- Inside Climate News: [The US May Have Scored a Climate Victory in Congress, but It Will Be in the Hot Seat With Other Major Emitters at UN Climate Talks](#)
- BBC: [Cop 27: Uganda-Tanzania oil pipeline sparks climate row](#)
- Environmental & Energy Study Institute:
 - [Looking to COP27, Here's Where Three Key COP26 Announcements Stand](#)

- [Bringing Sea Level Rise to the Surface at COP27](#)
- [Week 1 Go-to Resources](#)
- [Week 2 Go-to Resources](#)
- [Resource: Daily COP27 Dispatch](#)
- World Economic Forum: [COP27: Why it matters and 5 key areas for action](#)
- Relief Web: Road to COP27: [Three ways to stop the climate crisis whipping up a hunger storm](#)
- The Hill: [Keep all carbon removal approaches on the table at COP27](#)

NEWS

- [Three for Three: Climate, IUU and October's Federal Strategies](#)
27 October 2022, American Security Project
- [The New World: Envisioning Life After Climate Change](#)
27 October 2022, The New York Times Magazine
- [How Water Strategizing is Remaking the Middle East](#)
27 October 2022, New Security Beat
- [Climate Pledges Are Falling Short, and a Chaotic Future Looks More Like Reality](#)
26 October 2022, The New York Times
- [Beyond Catastrophe: A New Climate Reality Is Coming Into View](#)
26 October 2022, The New York Times Magazine
- [Kerry: 'We need to get back to the table' with China on climate](#)
25 October 2022, The Hill
- [Climate Change Bears Down on Naval Station Newport, Aquidneck Island](#)
24 October 2022, ecoRI News
- [Europe smashes renewable records as the need to break free of Russian gas becomes urgent](#)
24 October 2022, ZME Science
- [What Better Looks Like: Breaking the Critical Minerals Resource Curse](#)
24 October 2022, New Security Beat
- [DARPA Wants to Power Distant Military Bases with Laser-Beaming Droning](#)
24 October 2022, Popular Mechanics
- [EU countries agree to hike climate change target next year](#)
24 October 2022, Reuters
- [Exercise Points to Ways DOD Can Collaborate With Latin American, Caribbean Partners to Combat Security Impacts of Climate Change](#)
24 October 2022, Department of Defense Release
- [Biden administration can bolster climate and energy security by cutting methane](#)
24 October 2022, American Independent

- [The US Coast Guard's biggest ship made a rare trip to the North Pole amid warnings about Russian and Chinese moves in the Arctic](#)
23 October 2022, Business Insider
- [The Geopolitics of Arctic Warming](#)
21 October 2022, American Security Project
- [Connection between human rights and climate change 'must not be denied'](#)
21 October 2022, Relief Web
- [Australia promises millions in climate, security aid for Pacific](#)
21 October 2022, Al Jazeera
- [Will India become a green superpower?](#)
20 October 2022, The Economist
- [EV supply chains have a human rights problem. Can tech fix it?](#)
20 October 2022, The Washington Post
- [All that plastic in the ocean is a climate change problem, too](#)
17 October 2022, Grist
- [How to get Asia to net zero](#)
13 October 2022, The Economist

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Federal Vehicle Fleets: Observations on the Transition to Electric Vehicles](#)
U.S. Government Accountability Office, 20 October 2022
- **Report:** [Emissions Gap Report 2022](#)
UN Environment Programme, 27 October 2022
- **Report:** [World Energy Outlook 2022](#)
International Energy Agency, October 2022
- **Monthly Report:** [U.S. Winter Outlook: Warmer, drier South with ongoing La Niña](#)
National Oceanic and Atmospheric Administration, 20 October 2022
- **Report:** [Global progress in climate change and biodiversity conservation research](#)
Global Ecology and Conservation, October 2022
- **Guide:** [Implementing the Steps to Resilience](#)
NOAA Climate Program Office, October 2022
- **Web Resource:** [Tribal Climate Adaptation Guidebook](#)
Oregon Climate Change Research Institute & Partners, October 2022
- **Article:** [Recent droughts in the United States are among the fastest-developing of the last seven decades](#)
Weather and Climate Extremes, September 2022
- **Report:** [Greenhouse Gas Bulletin](#)

World Meteorological Organization, 26 October 2022

- **Report: [Beyond Barriers to Implementation: A Water Sector Perspective on Sea Level Rise Adaptation](#)**
EcoAdapt & Water Utility Climate Alliance, October 2022
- **Article: [Knowledge for a warmer world: A patent analysis of climate change adaptation technologies](#)**
Technological Forecasting and Social Change, October 2022
- **Article: [Development of a survey instrument to assess individual and organizational use of climate adaptation science](#)**
Environmental Science and Policy, September 2022

EVENTS

- **[Inspiring a Clean Energy Workforce](#)**
1 November 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- **[COP27 and beyond: Leveraging US-African business partnerships to accelerate clean energy deployment](#)**
2 November 2022 / 9:30 am ET / 6:30 am PT / Virtual
Atlantic Council
- **[NEW] [Meeting our Decarbonization Goals: What's Needed Beyond Good Engineering?](#)**
2 November 2022 / 1:00 ET / 10:00 PT / Virtual
Center for Energy Innovation, University of Massachusetts Lowell
- **[Understanding the US Military Services Climate Strategies](#)**
3 November 2022 / 2 - 3:30 pm ET / 11 – 12:30 PT / Virtual
Center for Climate & Security
- **[Power Projection: Accelerating the electrification of US military ground vehicles](#)**
3 November 2022 / 3:30 pm ET / 12:30 pm PT / Washington DC and Virtual via Zoom
Atlantic Council
- **[The Modern Government: Pathways to Decarbonization](#)**
14 November 2022 / 1:00 pm ET / 10:00 am PT / Virtual
KPMG
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[CSN] Challenges of Climate Security & Governance Competition**
30 November 2022 / 1200 – 1300 PT / Virtual
Register at: <https://bit.ly/3T5V6Ev>
NPS Climate & Security Network; details online soon
- **[NEW] [Electrification Station: Decarbonizing City Buildings and Fleets](#)**

13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy

- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [**\[NEW\]** Funding Opportunity: Understanding the Effects of Climate Change on Environmental Hazards in Overburdened Communities](#)
Application due 11 November 2022.
- [Request for Information: Ocean Climate Action Plan](#)
Comments due 18 November 2022.
- [DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability](#)
Responses to the RFI due 30 November 2022.
- [**\[NEW\]** Call for Perspectives: Managed Retreat in the US Gulf Coast Region](#)
Submissions due 1 December 2022.
- [**\[NEW\]** NOAA seeks applicants for 2023 urban heat island initiative](#)
Application due 16 December 2022.
- [U.S. Global Change Research Program Seeks Art for Fifth National Climate Assessment](#)
Submissions due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine. Below is also a special section on COP27 which begins this Sunday, 6 November.

An additional shout out to CSN member, John Joseph of Oceanography who also participated in the acoustic sensor work that was featured in last week's Monterey County Weekly. Read at: [A new study on blue whales reveals what we can learn about nature by listening carefully.](#)

Also, a few climate documents from the White House hot off the press:

- **Imitative/Assessment:** [U.S. Innovation to Meet 2050 Climate Goals](#)
White House, November 2022
- **Fact Sheet:** [Biden-Harris Administration Makes Historic Investment in America's National Labs, Announces Net-Zero Game Changers Initiative](#)
White House, 4 November 2022

Hope everyone has a nice weekend,

Kristen

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

NPS Climate & Security Network Weekly Update: 4 November 2022

Special Section: Ukraine

- Axios: [Putin's invasion permanently weakened Russian oil and gas](#)
- E&E News: [Russia's war in Ukraine won't save fossil fuels](#)
- The New York Times: [War in Ukraine Likely to Speed, Not Slow, Shift to Clean Energy, I.E.A. Says](#)
- The Washington Post: [Ukraine war: boost or setback for climate efforts?](#)
- Interesting Engineering: [Russia-Ukraine war evokes Europe's privatized 'nuclear renaissance,' over \\$400 million raised](#)
- Bulletin of the Atomic Scientists: [Water as weapon, and casualty, in Russia's war on Ukraine](#)
- HT Tech: [Climate Change Tops Insurers' Worries With War Close Behind](#)
- VOA: [COP27: Will Ukraine War Destroy Progress on Tackling Climate Emergency?](#)
- Congressional Research Service: [Russia's 2022 Invasion of Ukraine: Related CRS Products](#)

Special Section: Perspectives on COP27

- UN News: [COP27: What you need to know about this year's big UN Climate Conference](#)
- U.S. Department of State: [U.S. Center Events throughout COP27](#)

- Center for Climate & Security: [Five Climate Security Angles to Consider at the Climate Change Conference in Sharm el-Sheikh](#)
- Reuters: [About 90 heads of state confirmed for COP27 climate summit](#)
- Reuters: COP 27: [Big finance’s hopes fade in climate of war](#)
- Forbes: [COP27 at Sharm El Sheikh: Africa’s Chance To Break From Climate Colonialism](#)
- Inside Climate News: [Ahead of COP27, New Climate Reports are Warning Shots to a World Off Course](#)
- The Guardian: [Goal of limiting global heating to 1.5C ‘more fragile’ than ever, says COP27 chair](#)
- Grist: [Adaptation, loss and damage, and African oil: What’s at stake at COP27?](#)
- VOA: [COP27: Will Ukraine War Destroy Progress on Tackling Climate Emergency?](#)
- Atlantic Council: [COP27 and financing for sustainable energy development](#)
- International Energy Agency: [The IEA at COP27](#)
- Environmental & Energy Study Institute:
 - [Week 1 Go-to Resources](#)
 - [Week 2 Go-to Resources](#)
 - [Resource: Daily COP27 Dispatch](#)

NEWS

- [Global warming twice as fast in Europe as in rest of world, study says](#)
3 November 2022, The Washington Post
- [Report: Countries need an impossible amount of land to meet climate pledges](#)
3 November 2022, Grist (*see “The Land Gap” draft report here*)
- [Climate change: Hidden emissions in liquid gas imports threatened targets](#)
3 November 2022, BBC
- [‘Climate Carnage’: UN demands funding surge to save millions of lives](#)
3 November 2022, The Guardian
- [Arctic Must Not Become ‘Zone of Conflict,’ Says Canadian Official](#)
3 November 2022, National Defense
- [High Stakes: China’s Leadership in Global Biodiversity Governance](#)
3 November 2022, New Security Beat
- [Decarbonize the military – mandate emissions reporting](#)
2 November 2022, Nature
- [Unpacking U.S. climate and infrastructure laws](#)
2 November 2022, MIT Energy Initiative
- [How we’re using AI to help address the climate crisis](#)
2 November 2022, Google Release
- [A Central Role for Climate Change in the New U.S. National Security Strategy](#)
1 November 2022, Lawfare

- [Readout of the Inaugural Meetings of the National Academy of Sciences’ Roundtable on Macroeconomic and Climate-related Risks and Opportunities](#)
1 November 2022, White House
- [As Army begins electrification push, C5ISR office aims to smooth bumps in the road](#)
28 October 2022, Breaking Defense
- [E.U. plans for only electric new vehicles by 2035 ‘without precedent’](#)
28 October 2022, The Washington Post
- [Carbon-Capture Projects Are Taking Off. Here’s How They Stash the Greenhouse Gas.](#)
28 October 2022, The Wall Street Journal
- [UN calls for energy sector overhaul to avoid climate catastrophe](#)
28 October 2022, Al Jazeera
- [UK infrastructure at risk from climate crisis due to ‘extreme weakness’ in government](#)
27 October 2022, The Guardian
- [UN warns key warming threshold slipping from sight](#)
27 October 2022, BBC News
- [Tax the rich for climate action? Protect towns from floods? It’s on state ballots this November.](#)
27 October 2022, Grist
- [Middle East at the heart of new climate reality](#)
27 October 2022, Atlantic Council
- [Svalbard: The race to save the fastest-warming place on Earth](#)
27 October 2022, BBC News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Proclamation:** [A Proclamation on Critical Infrastructure Security and Resilience Month, 2022](#)
White House, 31 October 2022
- **Resource:** [The Water Cycle](#)
US Geological Survey, October 2022
- **Report:** [A Green-Blue Alliance in Motion: Pacific Island Countries and Europe Fighting Climate Change](#)
Center for Asian Studies, 17 October 2022
- **Report:** [Integrating Climate in Germany’s National Security Strategy: How to Avoid Being Derailed by Russia’s Aggression](#)
German Council on Foreign Relations, September 2022
- **Congressional Research Service Reports:**
 - [Department of Energy Funding for Hydrogen and Fuel Cell Technology Programs](#), 19 October 2022

- [Opening the Floodgates? Federal Circuit Lets Claims Proceed Against Corps of Engineers for Hurricane-Related Flooding](#), 13 October 2022
- **Report:** [Toward an Environmental and Climate-Sensitive Approach to Protection in UN Peacekeeping Operations](#)
International Peace Institute, October 2022
- **Article:** [Globally unequal effect of extreme heat on economic growth](#)
Science Advances, 28 October 2022
- **Report:** [State of the Climate in Europe - 2021](#)
World Meteorological Organization, 2022
- **Podcast:** [Kamala Harris and Gina McCarthy: Views from the Inside](#)
Climate One, 4 November 2022
- **Report:** [Readiness for storms ahead? Critical national infrastructure in an age of climate change](#)
Joint Committee on the National Security Strategy (UK), October 2022
- **Video:** [Climate Conversations: Extreme Heat](#)
National Academy of Sciences, Engineering and Medicine, 20 October 2022
- **Research Briefing:** [Climate change and human security](#)
House of Commons Library (UK), 1 November 2022
- **Brief:** [Environmental colonialism in the Maghreb? Harnessing green energy on indigenous peoples' lands](#)
Swedish Institute of International Affairs, Fall 2022
- **Report:** [Could the G7 climate club work? Lessons learned from climate coalitions](#)
Swedish Institute of International Affairs, Fall 2022
- **Podcast:** [Turning carbon dioxide into valuable products](#)
Energy Reads (MIT Energy Initiative), October 2022
- **Policy Brief:** [Protecting the environment in times of armed conflict](#)
Danish Institute for International Studies, 26 October 2022
- **Report:** [Climate-Tech to Watch: Sustainable Aviation Fuel](#)
Information Technology & Innovation Foundation, October 2022
- **World Ocean Radio Podcasts:**
 - [Implications of Arctic Ice Melt](#), 17 October 2022
 - [The Nord Stream Line](#), 10 October 2022

EVENTS

- **[NEW]** [China-Russia natural gas ties: The role of Central Asia](#)
9 November 2022 / 9 am ET / 6 am PT / Virtual
Atlantic Council
- **[NEW]** [Earth Observations in Support of Climate and Environmental Security](#)

10 November 2022 / 9 – 11:30 am PT
JPL Center for Climate Sciences and Keck Institute for Space Studies

- **[The Modern Government: Pathways to Decarbonization](#)**
14 November 2022 / 1:00 pm ET / 10:00 am PT / Virtual
KPMG
- **[\[NEW\] Innovating Out of the Climate Crisis: Electrification](#)**
16 November 2022 / 12:30 pm ET / 9:30 am PT / Virtual
American Security Project
- **[Ramanathan Climate Conversation](#)**
17 November 2022 / 1 pm ET / 10 am PT / Virtual
National Academy of Sciences, Engineering and Medicine
- **[The Role of AI in Responding to Climate Challenges](#)**
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- **[\[CSN\] Challenges of Climate Security & Governance Competition](#)**
30 November 2022 / 1200 – 1300 PT / Virtual
Register at: <https://bit.ly/3T5V6Ev>
NPS Climate & Security Network; details online soon
- **[Cascading Failures, Compounding Risks and Social Instability](#)**
8 December 2022 / Noon – 5 pm ET / 9 am – 2 pm PT / Washington DC & Virtual
National Academy of Sciences, Engineering and Medicine
- **[Electrification Station: Decarbonizing City Buildings and Fleets](#)**
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- **[Arctic Frontiers 2023](#)**
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- **[Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)**
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- **[Fifteenth International Conference on Climate Change: Impacts and Responses](#)**
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[\[NEW\] Survey: Atlantic Council Global Energy Agenda 2023](#)**
No deadline provided but responses to be shared in January 2023.
- **[Funding Opportunity: Understanding the Effects of Climate Change on Environmental Hazards in Overburdened Communities](#)**

- Application due 11 November 2022.
- [Request for Information: Ocean Climate Action Plan](#)
Comments due 18 November 2022.
 - [DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability](#)
Responses to the RFI due 30 November 2022.
 - [Call for Perspectives: Managed Retreat in the US Gulf Coast Region](#)
Submissions due 1 December 2022.
 - [NOAA seeks applicants for 2023 urban heat island initiative](#)
Application due 16 December 2022.
 - [U.S. Global Change Research Program Seeks Art for Fifth National Climate Assessment](#)
Submissions due 27 January 2023.

Dear CSN Members,

To our veterans, especially those now serving at NPS, Happy Veterans Day and thank you for your service.

Below are this week's updates from the climate and security world including the special section on Ukraine. Below is also a special section on COP27 which is now in full swing.

Take care,

Kristen

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

NPS Climate & Security Network Weekly Update: 11 November 2022

Special Section: Resources & Perspectives on COP27

- U.S. Department of State:
 - [U.S. Center Events throughout COP27](#)
 - [U.S. Delegation to the 2022 UN Climate Conference \(COP27\)](#)
 - [U.S. Announcements under the Green Shipping Challenge at COP27](#)
- Environmental & Energy Study Institute: [Week 2 Go-to Resources](#)
- Environmental & Energy Study Institute: [Key Announcements from the 2022 U.N. Climate Summit](#)
- World Resources Institute: [COP27 Resources Hub](#)
- Climate One (podcast): [On The Ground At COP27: Tallying Payments and Progress](#)
- Climate Action Network International: [Eco Newsletter on COP27](#)
- The New York Times: [As Other Global Crises Collide, Nations Converge to Address Climate Change](#)
- Carbon Brief: [Latest in UN Climate Talks](#)
- World Bank: [World Bank Group Priorities at COP27](#)
- The Washington Post: [At COP27, Pakistan leads push to make polluting countries pay](#)
- The Economist (podcast): [Babbage at COP27: Part one – the new climate realism](#)
- Inside Climate News: [Frustration Simmers Around the Edges of COP27, and May Boil Over Far From the Summit](#)
- Atlantic Council: [Global Energy Center at COP27: Ambitions for All](#)
- Politico: [U.S.-China global influence battle takes center stage at COP27](#)

Special Section: Ukraine

- CNBC: [World leaders insist Russia's war in Ukraine must be a reason to act even faster on climate](#)
- Bloomberg: [Ukraine Wants Russia to Pay for the Climate Damage Wreaked by Its War](#)
- The Wall Street Journal: [Ukraine War, Energy Crisis Test COP27 Climate Talks](#)
- Reuters: [Climate Change, Russia-Ukraine war hit global wine industry](#)
- Kyiv Post: [COP27 and the Climate Change Impacts of Russia's War with Ukraine](#)

- Independent Australia: [Ukraine war turns COP27 into a summit with little hope](#)

NEWS

- [Carbon emissions from fossil fuels will hit record high in 2022](#)
11 November 2022, The Guardian
- [Latest U.S. weather satellite, set to scan storms like Nicole, launches](#)
10 November 2022, The Washington Post
- [Camp Lejeune electric ‘microgrid’ aimed at climate resiliency](#)
10 November 2022, Winston-Salem Journal
- [Biden pushes to require big federal contractors to cut climate pollution](#)
10 November 2022, The Washington Post
- [Jordan is Running Out of Water, A Grim Glimpse of the Future](#)
10 November 2022, The New York Times
- [Veteran homelessness made harder by climate change](#)
10 November 2022, Navy Times
- [Living on the Edge: Who’s Ready for Climate Tipping Points?](#)
8 November 2022, New Security Beat
- [The Middle East is gearing up to combat climate change – its private sector can lead the way](#)
7 November 2022, World Economic Forum
- [The world is going to miss the totemic 1.5C climate target](#)
5 November 2022, The Economist
- [National Security Strategy: Time to contest China on climate](#)
5 November 2022, The Hill
- [Changing climate will exacerbate global inequalities in health, energy and labor impacts](#)
4 November 2022, Climate Impact Lab
- [A Tale of Two Strategies: Comparing the Biden and Trump National Security Strategies](#)
4 November 2022, Lawfare
- [Are Collective Net Zero Targets Anticompetitive?](#)
4 November 2022, Sabin Center for Climate Change Law
- [Fort Carson takes step toward being energy independent, breaks ground on innovative project](#)
3 November 2022, KRDO (CO)
- [The Geopolitics of Deep-Sea Mining and Green Technologies](#)
3 November 2022, United States Institute of Peace
- [Iraq: corruption and climate change top challenges facing new government](#)
3 November 2022, The National News

- [Why high temperatures can make planes too heavy to take off](#)
3 November 2022, CNN
- [No lithium? No problem, says Woburn battery startup](#)
2 November 2022, Boston Globe
- [Methane research takes on new urgency at MIT](#)
MIT News, 2 November 2022
- [Climate Change Diplomacy Has an Authoritarianism Problem](#)
2 November 2022, Just Security
- [How to boost climate resilience: Fill in infrastructure law funding gaps](#)
27 October 2022, The Hill

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Plans:** [National Program, Regional Office, and Office of Policy Climate Adaptation Implementation Plans](#)
U.S. Environmental Protection Agency, October 2022
- **Monthly Report:** [Assessing the U.S. Climate in October 2022](#)
National Centers for Environmental Information, 8 November 2022
- **Report:** [Renewable Energy Targets in 2022: A guide to design](#)
International Renewable Energy Agency, November 2022
- **Podcast:** [Unpacking U.S. climate and infrastructure laws](#)
Energy Reads, 10 November 2022
- **Article:** [A Time for Triage](#) [renewable energy]
The Environmental Forum, November 2022
- **Report:** [Integrity Matters: Net Zero Commitments by Businesses, Financial Institutions, Cities and Regions](#)
UN Expert Group, November 2022
- **Report:** [Climate Security in Mainland Southeast Asia: A Scenarios-Based Assessment](#)
Center for Climate & Security, November 2022
- **Report:** [A Climate Fund for Climate Action: The Benefits of Taxing Extreme Carbon Emitters](#)
Autonomy (UK), October 2022
- **Technical Paper:** [Methodologies for assessing adaptation needs and their application](#)
UN Framework Convention on Climate Change, November 2022

EVENTS

- [The Modern Government: Pathways to Decarbonization](#)
14 November 2022 / 1:00 pm ET / 10:00 am PT / Virtual
KPMG

- [**Innovating Out of the Climate Crisis: Electrification**](#)
16 November 2022 / 12:30 pm ET / 9:30 am PT / Virtual
American Security Project
- [**Ramanathan Climate Conversation**](#)
17 November 2022 / 1 pm ET / 10 am PT / Virtual
National Academy of Sciences, Engineering and Medicine
- [**The Role of AI in Responding to Climate Challenges**](#)
17 - 19 November 2022 / Arlington, VA
Association for the Advancement of AI
- [**\[CSN\] Challenges of Climate Security & Governance Competition**](#)
30 November 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network
- [**\[NEW\] Inflation Reduction Act \(IRA\) Clean Ports Funding Listening Session**](#)
6 December 2022 / 1 pm ET / 10 am PT / Virtual
U.S. Environmental Protection Agency Ports Initiative
- [**Cascading Failures, Compounding Risks and Social Instability**](#)
8 December 2022 / Noon – 5 pm ET / 9 am – 2 pm PT / Washington DC & Virtual
National Academy of Sciences, Engineering and Medicine
- [**Electrification Station: Decarbonizing City Buildings and Fleets**](#)
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- [**Arctic Frontiers 2023**](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [**Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West**](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [**Fifteenth International Conference on Climate Change: Impacts and Responses**](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [**Survey: Atlantic Council Global Energy Agenda 2023**](#)
No deadline provided but responses to be shared in January 2023.
- [**Request for Information: Ocean Climate Action Plan**](#)
Comments due 18 November 2022.
- [**DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability**](#)
Responses to the RFI due 30 November 2022.

- [Call for Perspectives: Managed Retreat in the US Gulf Coast Region](#)
Submissions due 1 December 2022.
- [NOAA seeks applicants for 2023 urban heat island initiative](#)
Application due 16 December 2022.
- **[NEW]** [Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)
Comments due 13 January 2023.
- **[NEW]** [Call for Public Comment: Fifth National Climate Assessment](#)
Comments due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special sections on Ukraine and on COP27 as it wraps up.

Hope everyone has a good weekend,

Kristen

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

NPS Climate & Security Network Weekly Update: 18 November 2022

Special Section: Resources & Perspectives on COP27

- White House: [President Biden Announces New Initiatives at COP27 to Strengthen U.S. Leadership in Tackling Climate Change](#)
- White House: [Remarks by President Biden at the 27th Conference of the Parties to the Framework Convention on Climate Change \(COP27\)](#)
- U.S. Department of State: [U.S. Announcements on Ocean-Climate Action at COP27](#)
- Reuters: [“Stand and deliver,” UN chief tells faltering COP27 climate summit](#)
- BBC: [Deep rift over climate cash clouds end of COP27](#)
- The Guardian: [First draft of COP27 text: what it says and what it means](#)
- The Washington Post: [‘Brazil is Back’: At COP27, Lula vows to be a global climate leader](#)
- NPR: [Climate talks are wrapping up. The thorniest questions are still unresolved.](#)
- Inside Climate News: [Science Day at COP27 Shows That Climate Talks Aren’t Keeping Pace With Planetary Physics](#)
- World Economic Forum: [COP27: The top quotes from climate and world leaders at the UN summit](#)
- Climate Action Tracker: [Climate Target Update Tracker](#)

Special Section: Ukraine

- BBC: [War causing huge release of climate warming gas, claims Ukraine](#)
- NPR: [The war in Ukraine is giving the country’s scientists a platform](#)
- The Washington Post: [Russia sees its role on the global stage diminished by Ukraine war](#)
- NPR: [Even remote corners of Africa are feeling the costly impacts of war in Ukraine](#)
- The Standard: [War in Ukraine has big impact on Kenya, Africa](#)
- Business Standard: [Recession, climate change, Ukraine war: Kant lists challenges before G20](#)

NEWS

- [Army Sets Environmental Resilience Goals](#)
17 November 2022, National Defense
- [How borders might change to cope with climate migration](#)

17 November 2022, BBC

- [US Defense innovators working on battery microgrid for ‘brutal Arctic conditions’](#)
17 November 2022, Energy Storage News
- [The Benefits of Carbon Capture](#)
17 November 2022, American Security Project
- [What Contractors Think of the Proposed Rule on Climate Reporting](#)
16 November 2022, Defense One
- [NATO allies wake up to Russian supremacy in the Arctic](#)
16 November 2022, Reuters
- [9 in 10 US counties have experienced a climate disaster in the last decade, report finds](#)
16 November 2022, Grist
- [Climate Change, Population, and the Shape of the Future](#)
15 November 2022, New Security Beat
- [President Biden Signs NSM-16 to Strengthen U.S. Food Safety, Security; Highlights Climate Change, Cybersecurity](#)
15 November 2022, Food Safety Magazine
- [Renewing global climate change action for fragile and developing countries](#)
14 November 2022, Brookings
- [Meet the Pentagon’s Climate team](#)
14 November 2022, E&E News
- [How Climate Discussions Connect to Security](#)
14 November 2022, Homeland Security Today
- [Is Space-Based Solar Power Ready for Its Moment in the Sun?](#)
14 November 2022, Scientific American
- [Xi Jinping downplays climate change, risking his own priorities](#)
13 November 2022, The Hill
- [Strengthening national security through global water security](#)
13 November 2022, The Hill
- [Department of Defense To Prototype Commercial Cold Regions Microgrid Solution for Future Military Platforms](#)
7 November 2022, Defense Innovation Unit

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Estimating the Military’s Global Greenhouse Gas Emissions](#)
Scientists for Global Responsibility and Conflict and Environment Observatory, 10 November 2022
- **Report:** [2021 – 2022 U.S. Defense Climate Highlights and Case Studies](#)
American Security Project, 14 November 2022

- **Report:** [Energy Transition Pathways for the 2030 Agenda: SDG 7 Roadmap for Pakistan](#)
UN Economic and Social Commission for Asia and the Pacific, 10 November 2022
- **Report:** [Arctic Perils: Emerging Threats in the Arctic Maritime Environment](#)
Canadian Global Affairs Institute, November 2022
- **Article:** [We'll always have Paris: How to adapt multilateral climate cooperation to new realities](#)
European Council on Foreign Relations, 31 October 2022
- **Plan:** [Arctic Research Plan 2022 – 2026](#)
Interagency Arctic Research Policy Committee, November 2022
- **Brief:** [The future of nuclear energy in the Baltic Sea Region](#)
Danish Institute for International Studies, 31 October 2022
- **Database:** [U.S. State Actions on Climate, Energy and Economy](#)
Center for Strategic and International Studies, November 2022
- **Tool:** [USDA Forest Service Interactive Map: Wildfire Reduction Projects](#)
U.S. Forest Service, 16 November 2022
- **Report:** [Climate Change and Regional Instability in the Horn of Africa](#)
Council on Foreign Relations, November 2022
- **Report:** [Climate Change and Conflict in the Sahel](#)
Council on Foreign Relations, November 2022
- **Event Summary:** [Understanding the Army, Navy and Air Force Climate Strategies](#)
Center for Climate & Security, 16 November 2022 *[link includes webinar video]*
- **Report:** [Closing the Climate Divide: How Energy Transition Plans Can Turn Pledges Into Projects](#)
Tony Blair Institute for Global Change, November 2022
- **Report:** [Financing the Energy Transition through Cross-Border Investment](#)
Belfer Center, November 2022
- **Briefer:** [Climate Change a “Top Tier Threat” in the 2022 U.S. National Security Strategy](#)
Center for Climate & Security, 14 November 2022
- **Reports:** **Congressional Research Service:**
 - [Federal Involvement in Ocean-Based Research and Development](#), November 2022
 - [Ocean Acidification: Frequently Asked Questions](#), November 2022
- **Progress Report:** [Climate Adaptation and Resilience Plan: 2022 Progress Report](#)
U.S. Department of State, November 2022
- **Reports:** [Country Climate and Development Reports](#)

World Bank Group, November 2022

Recent reports include Argentina, Cameroon, Egypt, Ghana, Iraq, Jordan, Kazakhstan, Morocco, Pakistan, Peru, Philippines, and South Africa.

- **Brief:** [CBO's Role in Assessing Climate Change and Climate Change Policy](#)
Congressional Budget Office, November 2022
- **Report:** [Illegal Wildlife Trade and Climate Change](#)
UN Office on Drugs and Crime, November 2022
- **Guidance:** [Climate Hazard and Mitigation Planning \(CHaMP\) Tool: Background and Guidance for Users](#)
RAND, November 2022
- **Report:** [Equity in Climate Resilience Planning and Investments](#)
MITRE, October 2022

EVENTS

- **[CSN]** [Challenges of Climate Security & Governance Competition](#)
30 November 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network
- **[NEW]** [Technological Innovation and Arctic Climate Security](#)
30 November 2022 / 3 – 4:30 ET / Noon – 1:30 PT / Virtual
- **[NEW]** [What Keeps Us Going?: Understanding Vulnerabilities in the Energy Sector and Our Supply Chains](#)
30 November 2022 / 2:00 pm ET / 11:00 am PT / Virtual
Center for Homeland Defense and Security
- [Inflation Reduction Act \(IRA\) Clean Ports Funding Listening Session](#)
6 December 2022 / 1 pm ET / 10 am PT / Virtual
U.S. Environmental Protection Agency Ports Initiative
- **[NEW]** [Scoping the Analytical Implications of Climate Change and Extreme Events for National Security](#)
6-8 December 2022 / Laurel, MD & Virtual
Military Operations Research Society
- [Cascading Failures, Compounding Risks and Social Instability](#)
8 December 2022 / Noon – 5 pm ET / 9 am – 2 pm PT / Washington DC & Virtual
National Academy of Sciences, Engineering and Medicine
- [Electrification Station: Decarbonizing City Buildings and Fleets](#)
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- **[NEW]** [Fighting with Nature: How Society is Changing Its Approach to Natural Hazards](#)
14 December 2022 / 2 pm ET / 11 am PT / Virtual
Center for Homeland Defense and Security

- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability](#)
Responses to the RFI due 30 November 2022.
- [Call for Perspectives: Managed Retreat in the US Gulf Coast Region](#)
Submissions due 1 December 2022.
- [NOAA seeks applicants for 2023 urban heat island initiative](#)
Application due 16 December 2022.
- [Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)
Comments due 13 January 2023.
- [Call for Public Comment: Fifth National Climate Assessment](#)
Comments due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine and our final special section on COP27. This comes a little early in honor of Thanksgiving.

And a reminder of the upcoming CSN event next week:

[\[CSN\] Challenges of Climate Security & Governance Competition](#)

30 November 2022 / 1200 – 1300 PT / Virtual

NPS Climate & Security Network

Register via Zoom: <https://bit.ly/3TSV6Ev>

Wishing all a happy holiday,

Kristen

Kristen M Fletcher

Faculty Associate-Research | Naval Postgraduate School

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

Office: 831.920.1090 | Cell: 401.714.4686

kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 23 November 2022

Special Section: Resources & Perspectives on COP27

- United Nations Climate Change: [Decisions taken at the Sharm El-Sheikh Climate Change Conference](#)
- Climate One (Podcast): [In Person at COP27: Funding the Global Energy Transition](#)
- Sabin Center for Climate Change Law: [At COP27, Developing Countries Fight to Define a Global Goal on Adaptation](#)
- Anadolu Agency: [No major progress at COP27 amid slow negotiations](#)
- Client Earth: [What happened at COP27?](#)
- Atlantic Council: [The big success and bigger failure of COP27](#)
- Nature: [COP27 climate talks: what succeeded, what failed and what's next](#)
- EESI: [U.N. Climate Summit Delivers Important Progress on Loss and Damage but Falls Short on Ambition](#)
- Real Clear Energy: [We Put Partisanship Aside at COP27 – And We Need Our Leaders to Do the Same](#)
- Inside Climate News: [Leaders and Activists at COP27 Say the Gender Gap in Climate Action is Being Bridged Too Slowly](#)
- Inside Climate News: [Is COP27 the End of Hopes for Limiting Global Warming to 1.5 Degrees Celsius?](#)

Special Section: Ukraine

- CNN: [Ukraine is finding new allies in a Russian tourist hotspot](#)
- Nikkei Asia: [APEC finds consensus on Pacific free trade, Ukraine war fallout](#)
- The Diplomat: [G20 Can't Avoid the Elephant in the Room: Ukraine War](#)
- Modern Diplomacy: [Russia's war on Ukraine at COP27 – and Energy Security](#)

NEWS

- [**One Earth, one security space: from the 1972 Stockholm Conference to Stockholm+50 and beyond**](#)
22 November 2022, New Security Beat
- [**These three issues stand in the way of energy permitting reform**](#)
22 November 2022, The Hill
- [**Energy Security Is The Only Pathway To Climate Progress**](#)
22 November 2022, Outlook India
- [**Can China and the US cooperate on Climate Change?**](#)
22 November 2022, The Diplomat
- [**In war-torn states hurt by climate, scant hope for new funds**](#)
22 November 2022, Al Jazeera
- [**Indonesian Human Rights Commission's First Human Rights Complaint on the Impacts of Climate Change**](#)
22 November 2022, Sabin Center for Climate Change Law
- [**How climate change has helped greener energy businesses take off in Canada**](#)
22 November 2022, CBC News
- [**FAR Council Proposes Climate Change Policy Including Inventory And Disclosure Of Greenhouse Gas Emissions And Science-Based Targets**](#)
22 November 2022, Mondaq
- [**Climate Change, Hurricanes and US Security**](#)
22 November 2022, Global Risks Insights
- [**Pan-African Approach needed to tackle food insecurity arising from conflict and climate shocks**](#)
22 November 2022, Relief Web
- [**Putin touts Russia's 'Arctic power' with launch of nuclear icebreakers**](#)
22 November 2022, Reuters
- [**Marines look to pull water out of the air to support operations**](#)
21 November 2022, Stars and Stripes
- [**Environmental pressures are reshaping the defence industry**](#)
21 November 2022, Army Technology
- [**EPA floats sharply increased social cost of carbon**](#)
21 November 2022, E&E News
- [**Back in the Game: Brazil's Reengagement in Climate Governance**](#)
21 November 2022, Sabin Center for Climate Change Law
- [**Austria faces energy crisis from a position of strength**](#)
21 November 2022, Financial Times
- [**The World Will Never Agree to Phase Out Petroleum. And That's OK.**](#)

21 November 2022, The Washington Post

- [**The Cost of Going Solo in Solar**](#)
21 November 2022, New Security Beat
- [**Programmable Biology Puts Biotech on the Geopolitical Agenda**](#)
21 November 2022, Lawfare
- [**Are We Entering The Golden Age of Climate Modeling?**](#)
21 November 2022, Eos
- [**Global climate conference closes with climate damage compensation deal**](#)
20 November 2022, The Hill
- [**The Solution to Climate Change Isn't Demilitarization**](#)
19 November 2022, Foreign Policy
- [**In a First, Rich Countries Agree to Pay for Climate Damages in Poor Nations**](#)
19 November 2022, The New York Times
- [**RAF's first UK flight using 100% sustainable fuel a 'breakthrough moment'**](#)
18 November 2022, The Independent (UK)
- [**What's it worth to our national security to take the lead on fighting climate change?**](#)
18 November 2022, Tampa Bay Times
- [**Is the world ready for mass migration due to climate change?**](#)
17 November 2022, BBC
- [**Wargaming Climate Change: Who Plays for the Red Team?**](#)
8 November 2022, War on the Rocks

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Summary:** [**October 2022 Global Climate Report**](#)
National Centers for Environmental Information, November 2022
- **Prediction Model:** [**Regional Arctic System Model Sea Ice Prediction**](#)
NPS Department of Oceanography, 1 November 2022
- **Article:** [**African perspectives on climate change research**](#)
Nature Climate Change, 10 November 2022
- **Fact Sheet:** [**One Year into Implementation of Bipartisan Infrastructure Law, Biden-Harris Administration Celebrates Major Progress in Building a Better America**](#)
White House, 15 November 2022
- **Tool:** [**Bipartisan Infrastructure Law Maps Dashboard**](#)
General Service Administration, November 2022
- **Report:** [**Nuclear Waste Attributes of SMRs Scheduled for Near-Term Deployment**](#)
Argonne National Laboratory, 18 November 2022

EVENTS

- [**\[CSN\] Challenges of Climate Security & Governance Competition**](#)
30 November 2022 / 1200 – 1300 PT / Virtual
NPS Climate & Security Network
- [**Technological Innovation and Arctic Climate Security**](#)
30 November 2022 / 3 – 4:30 ET / Noon – 1:30 PT / Virtual
- [**What Keeps Us Going?: Understanding Vulnerabilities in the Energy Sector and Our Supply Chains**](#)
30 November 2022 / 2:00 pm ET / 11:00 am PT / Virtual
Center for Homeland Defense and Security
- [**Inflation Reduction Act \(IRA\) Clean Ports Funding Listening Session**](#)
6 December 2022 / 1 pm ET / 10 am PT / Virtual
U.S. Environmental Protection Agency Ports Initiative
- [**Scoping the Analytical Implications of Climate Change and Extreme Events for National Security**](#)
6-8 December 2022 / Laurel, MD & Virtual
Military Operations Research Society
- [**\[NEW\] Climate Conversations: Insurance**](#)
7 December 2022 / 3 pm ET / Noon PT / Virtual
National Academies of Science, Engineering and Medicine
- [**Cascading Failures, Compounding Risks and Social Instability**](#)
8 December 2022 / Noon – 5 pm ET / 9 am – 2 pm PT / Washington DC & Virtual
National Academy of Sciences, Engineering and Medicine
- [**\[NEW\] Climate Change in Transboundary River Basins: A Look at the Blue Nile River**](#)
9 December 2022 / 11 am ET / 8 am PT / Virtual
National Academies of Science, Engineering and Medicine
- [**Electrification Station: Decarbonizing City Buildings and Fleets**](#)
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- [**Fighting with Nature: How Society is Changing Its Approach to Natural Hazards**](#)
14 December 2022 / 2 pm ET / 11 am PT / Virtual
Center for Homeland Defense and Security
- [**Arctic Frontiers 2023**](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [**Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West**](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [**Fifteenth International Conference on Climate Change: Impacts and Responses**](#)

20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [**DOE Seeks Input on How Defense Production Act Could Support National Security by Strengthening Grid Reliability**](#)
Responses to the RFI due 30 November 2022.
- [**Call for Perspectives: Managed Retreat in the US Gulf Coast Region**](#)
Submissions due 1 December 2022.
- [**NOAA seeks applicants for 2023 urban heat island initiative**](#)
Application due 16 December 2022.
- [**Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule**](#)
Comments due 13 January 2023.
- [**Call for Public Comment: Fifth National Climate Assessment**](#)
Comments due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine. A few items to highlight:

In November, NPS President Ann Rondeau presented at the following event:

- [Inaugural Stanford Oceans Conference reimagines approach to ocean exploration](#)
28 November 2022, Stanford Doerr School of Sustainability Release

And for those of you following the World Cup, here's an interesting perspective:

- [Lessons from the World Cup: How a changing climate is changing sports](#)
30 November 2022, Grist

And, a **special thanks to Majors Alexander Kenna and Matt Alexander** who presented their Climate Insecurity & Governance Competition research this week. Slides and video link will be provided in next week's update.

Hope everyone has a nice weekend.

Kristen

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

NPS Climate & Security Network Weekly Update: 2 December 2022

Special Section: Ukraine

- Foreign Policy Research Institute: [Ecological Path to Peace is Possible in Ukraine](#)
- DOD: [U.S., French Presidents State Support for Ukraine, Global Security](#)
- Modern Diplomacy: [Ukraine and Climate Change: Half-Baked Solutions To Intractable Problems](#)
- BBC: [Ukraine war: How Germany ended reliance on Russian gas](#)
- Swiss Info: [How the war in Ukraine fuels underfunding for other crises](#)
- BBC: [Cut energy use to stop Putin 'blackmail'](#)
- Nikkei Asia: [China's Xi looks to strengthen energy ties with Russia](#)
- Modern Diplomacy: [More Europeans will perish from energy crisis than Ukraine war death toll](#)

NEWS

- [A Plan To Push Back Against China's Fishing Practices](#)
2 December 2022, War on the Rocks
- [Media and Climate Security: Mutual Miscomprehension?](#)
1 December 2022, New Security Beat
- [Beyond solar: Here's what the clean energy future might look like](#)
1 December 2022, Grist

- [Canoo repurposed its bubbly electric pickup truck for the US Army](#)
1 December 2022, The Verge
- [Expediting Electricity Transmission](#)
1 December 2022, American Security Project
- [The Forgotten Greenhouse Gas: Nitrous Oxide as an Issue for U.S. and Chinese Agriculture](#)
1 December 2022, New Security Beat
- [Portsmouth Naval Shipyard works to become more resilient as climate changes](#)
30 November 2022, WMUR (New Hampshire)
- [Biden administration proposes new rule targeting methane emissions on tribal lands](#)
30 November 2022, Grist
- [Airbus boss warns of delay in decarbonising airline industry](#)
30 November 2022, The Guardian
- [Decarbonization amid global crises](#)
30 November 2022, MIT Energy Initiative
- [Water thieves abound in dry California. Why are they so hard to catch?](#)
30 November 2022, Grist
- [Can Asia and the Pacific get on track to net zero?](#)
29 November 2022, Modern Diplomacy
- [U.S.-Columbia Defense Leaders to Discuss Security, Migration, Climate Change](#)
29 November 2022, DOD Release
- [Water as Part of the Climate Solution](#)
28 November 2022, Inside Climate News
- [We're decoding ancient hurricanes' traces on the sea floor – and evidence from millennia of Atlantic storms is not good news for the coast](#)
28 November 2022, The Conversation
- [World's 1st hydrogen-powered jet engine seeks turning point for aviation industry](#)
28 November 2022, Yahoo News
- [Climate-Related Security Risks In The SADC Region](#)
28 November 2022, Eurasia Review
- [Climate Change, COP27 and Pakistan](#)
28 November 2022, Pakistan Observer
- [The electric vehicle boom in a quiet Hungarian town](#)
28 November 2022, Financial Times
- [What If the U.S. and China Really Cooperated on Climate Change?](#)
28 November 2022, Resilience

- [COP27 was disappointing, but 2022 remains an historic year for international climate policy](#)
28 November 2022, The Conversation
- [Gov't urged to step up alliance, empower communities vs global warming](#)
27 November 2022, Manila Bulletin
- [The Science for Determining Climate-Change Damage Is Unsettled](#)
26 November 2022, The Wall Street Journal
- [Climate change: Could centuries-old wheat help feed the planet?](#)
26 November 2022, BBC
- [It's high time to defuse the military carbon bomb](#)
25 November 2022, Al Jazeera
- [The Marine Corps' Parris Island is a role model for coping with climate change](#)
25 November 2022, NPR
- [COP27: The role of security in climate adaptation policies](#)
25 November 2022, Planetary Security Initiative
- [China's space station will run high-energy beam experiment for controversial solar power plant](#)
24 November 2022, South China Morning Post
- [The Case for Integrating Sustaining Peace into an Expanded Climate, Peace and Security Concept](#)
23 November 2022, Relief Web
- [Climate-related security risks in the SADC region](#)
23 November 2022, Stockholm International Peace Research Institute
- [Striking a balance between ecology and national security](#)
22 November 2022, The New Indian Express
- [How Wind Turbines Could Power Defense and Disaster Relief](#)
22 November 2022, National Renewable Energy Laboratory
- [The Future of Climate Change: Did COP27 Restore Global Climate Action?](#)
22 November 2022, American Security Project
- [COP27 Didn't Make Enough Progress to Prevent Climate Catastrophe](#)
21 November 2022, Council on Foreign Relations
- [Climate change, conflict and internal displacement in Afghanistan: 'We are struggling to survive'](#)
16 November 2022, Overseas Development Institute

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [China's Climate Security Vulnerabilities](#)
Center for Climate & Security, Council on Strategic Risks, November 2022

- **Video:** [Securing energy: How dependent are we?](#)
Clingendael Institute, November 2022
- **Paper:** [AI-Based Text Analysis for Evaluating Food Waste Policies](#)
MITRE, Fall 2022
- **Paper:** [Climate Change and the Law of National Security Adaptation](#)
Northwestern University Law Review, November 2022
- **Report:** [Protection of Women Human Rights Defenders at Risk in Migration Contexts](#)
UN Women, 26 November 2022
- **Report:** [A Plea: The Case for Digital Environmentalism](#)
Center for Security and Emerging Technology, November 2022
- **Report:** [U.S. International Climate Finance: FY2023](#)
Congressional Research Service, 14 November 2022
- **Report:** [The Portfolio of Economic Policies Needed to Fight Climate Change](#)
Peterson Institute for International Economics, November 2022
- **Podcast:** [What's in My Air?](#)
Climate One, 2 December 2022
- **Paper:** [Co-Benefits Through Coordination of Climate Action and Peacebuilding: A System Dynamics Model](#)
Journal of Peacebuilding and Development, November 2022
- **Report:** [Antarctic Science: Why U.S. Leadership and Investments Matter](#)
National Academies of Sciences, Engineering, and Medicine, November 2022
- **Paper:** [To Prevent the Collapse of Biodiversity, the World Needs a New Planetary Politics](#)
Carnegie Endowment for International Peace, 28 November 2022
- **Report:** [Perceptions of climate change and violent extremism](#)
UN Interregional Crime and Justice Research Institute, October 2022

EVENTS

- **[NEW]** [The impact of merging climate and trade policy on global demand for nuclear energy](#)
6 December 2022 / 7:00 pm ET / 4:00 pm PT / Virtual
Atlantic Council
- **[NEW]** **EDISON-Class Hydrogen Tanker Carrier**
6 December 2022 / 0900 – 1100 am PT / Monterey, CA and Virtual
Naval Postgraduate School Total Ship Systems Engineering (TSSE) Conceptual Ship Design
Contact kristen.fletcher@nps.edu for more information.
- [Inflation Reduction Act \(IRA\) Clean Ports Funding Listening Session](#)
6 December 2022 / 1 pm ET / 10 am PT / Virtual
U.S. Environmental Protection Agency Ports Initiative

- [Scoping the Analytical Implications of Climate Change and Extreme Events for National Security](#)
6-8 December 2022 / Laurel, MD & Virtual
Military Operations Research Society
- [Climate Conversations: Insurance](#)
7 December 2022 / 3 pm ET / Noon PT / Virtual
National Academies of Science, Engineering and Medicine
- [Cascading Failures, Compounding Risks and Social Instability](#)
8 December 2022 / Noon – 5 pm ET / 9 am – 2 pm PT / Washington DC & Virtual
National Academy of Sciences, Engineering and Medicine
- **[NEW]** [Gilbert F White Lecture: Energy Justice and Justice 40: Made for this Moment](#)
8 December 2022 / 4:30 – 5:30 pm ET / 1:30 – 2:30 pm PT / Virtual
National Academies of Sciences, Engineering, and Medicine
- **[NEW]** [Stefan Rahmstorf: The 2022 Stephen H. Schneider Award for Outstanding Climate Science Communication](#)
9 December 2022 / 10:00 am PT / Virtual
Climate One
- [Climate Change in Transboundary River Basins: A Look at the Blue Nile River](#)
9 December 2022 / 11 am ET / 8 am PT / Virtual
National Academies of Science, Engineering and Medicine
- **[NEW]** [Innovating Out of the Climate Crisis: Hydrogen](#)
13 December 2022 / 12:30 pm ET / 9:30 am PT / Virtual
American Security Project
- [Electrification Station: Decarbonizing City Buildings and Fleets](#)
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- [Fighting with Nature: How Society is Changing Its Approach to Natural Hazards](#)
14 December 2022 / 2 pm ET / 11 am PT / Virtual
Center for Homeland Defense and Security
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- [NOAA seeks applicants for 2023 urban heat island initiative](#)
Application due 16 December 2022.
- [Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)
Comments due 13 January 2023.
- [Call for Public Comment: Fifth National Climate Assessment](#)
Comments due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine. A few CSN updates:

On behalf of the CSN Planning Team, I'm excited to share that we have updated our [Research](#) page with 8 fact sheets showing NPS' research priorities in areas relevant to climate change and national security. You can view them here:

[NPS Research Priorities](#)

[Climate System Science](#)

[Energy Security](#)

[Climate Security](#)

[Supply & Logistics](#)

[Climate Change Impacts on Operations](#)

[Climate & Security Education and Curriculum](#)

[Potential Future Contributions](#)

We're also pleased to share our updated [Expert Database](#). We're proud to host a variety of NPS experts – current faculty and researchers, along with students and alumni – in this searchable database.

Our sincerest thanks to those who contributed to these efforts but especially to **Emily Pesicka** and **Elle Hancock** of the Center for Infrastructure Defense.

Kristen

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

NPS Climate & Security Network Weekly Update: 9 December 2022

Special Section: Ukraine

- The Washington Post: [What's Boosting Nuclear Power? War and Climate Change](#)
- Marketplace: [Russia tries to pull the plug on Ukraine's electricity](#)
- NDTV (France): [Ukraine War Drove Countries Towards Power Efficiency: Energy Body](#)
- Worldcrunch: [How Climate Change and Ukraine War Have Put Somalia On The Brink Of Famine](#)
- Earth.org: [The Need for Ecological Peace in Times of War](#)
- NDTV (India): [India Strongly Defends Import of Crude Oil From Russian Amid Ukraine War](#)
- The Conversation: [As the Ukraine war derails efforts to solve the climate crisis, a new one looms – the fight for peace](#)

NEWS

- [**African countries are tapping their fossil fuel wealth. Why aren't they getting rich?**](#)
8 December 2022, Grist
- [**The Pentagon's electric future**](#)
8 December 2022, Politico
- [**Finally, Some Good Climate News: The Biggest Wins in Clean Energy in 2022**](#)
8 December 2022, Inside Climate News
- [**The Pentagon Marches Off to Climate War**](#)
7 December 2022, The Wall Street Journal
- [**EU agrees to ban products linked to deforestation**](#)
7 December 2022, Grist
- [**U.S. Officials Listen to Concerns of African Leaders**](#)
7 December 2022, DOD Release
- [**Biden-Harris Administration Announces Winners of California Offshore Wind Energy Auction**](#)
7 December 2022, Department of the Interior Release
- [**The world agreed to a global plastics treaty. Now comes the hard part.**](#)
6 December 2022, Grist
- [**Oil Price Wavers After Russia Cap Kicks In**](#)
5 December 2022, The Wall Street Journal
- [**Climate Change and Ecological Security**](#)
5 December 2022, New Security Beat
- [**Indonesia wants to make an OPEC for this coveted metal**](#)
5 December 2022, CNN Business
- [**Deadly heat waves engulfed the planet this year: Climate change is a national security crisis**](#)
4 December 2022, Salon
- [**Who Pays the Bill for Climate Change?**](#)
2 December 2022, The New York Times
- [**COP27 Produces a Historic Result for Vulnerable Countries: A Loss and Damage Fund**](#)
2 December 2022, Just Security
- [**Silicon Energy Storage Gets \\$10 Million Love Letter from US Military**](#)
2 December 2022, Clean Technica
- [**UN appealing for \\$51bn to save 230 m from climate disaster**](#)
2 December 2022, Energy Live News
- [**Municipalities of Puerto Rico v. Exxon: A Unique Class Action Against Fossil Fuel Companies Presses for Climate Accountability in the United States**](#)

2 December 2022, Sabin Center for Climate Change Law

- [Mining for the clean energy transition](#)
1 December 2022, MIT News
- [Biden and Macron seek to manage friction over US climate law](#)
1 December 2022, Al Jazeera
- [U.S. Embassies Face Growing Risk from Climate Change, Government Watchdog Says](#)
1 December 2022, Scientific American (*see GAO report in Resources section*)
- [New Report Says Global Food System Investment Needed to Equip Farmers for Climate Change](#)
1 December 2022, Mangolia Banner-News
- [Community Land Trusts Build Climate-Resilient Affordable Housing](#)
1 December 2022, Yes! Magazine
- [Modi urges unity on climate change, terrorism, pandemics as India assumes G20 presidency](#)
1 December 2022, CNN
- [What Are Carbon Sinks? How Do They Impact Climate Change?](#)
30 November 2022, Treehugger
- [Biden-Harris Administration Makes \\$135 Million Commitment to Support Relocation of Tribal Communities Affected by Climate Change](#)
Department of the Interior Release, 30 November 2022
- [The link between climate and national security](#)
28 November 2022, McKinsey & Company

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Strategy:** [U.S. Department of Energy Arctic Strategy](#)
DOE Arctic Energy Office, October 2022
- **Plan:** [COP27 / Shar el-Sheikh Implementation Plan](#)
UN Framework Convention on Climate Change, November 2022
- **Memorandum:** [Overseas Real Property: State's Initial Assessment of Natural Hazard Risks Faced by its Posts](#)
U.S. Government Accountability Office, October 2022
- **Memorandum:** [Guidance for Federal Departments and Agencies on Indigenous Knowledge](#)
Council on Environmental Quality, 30 November 2022
- **Video:** [Reagan Defense Forum 2022: National Defense Strategy discussion with Mara Karlin](#)
Breaking Defense, December 2022
- **Report:** [The Federal Building Performance Standard](#)
Council on Environmental Quality, December 2022

- **Podcast:** [Neta Crawford on the Pentagon, Climate Change and War](#)
The Lawfare Podcast, 29 November 2022
- **Working Document:** [Security For All: Demilitarizing Our Climate Narratives](#)
Common Defense, December 2022
- **Report:** [Carbon Dioxide Utilization Markets and Infrastructure](#)
National Academies of Sciences, Engineering and Medicine, December 2022
- **Report:** [Forging New Ground: Implementing a Climate Resilience Agenda Across the U.S. Federal Government](#)
Woods Institute for the Environment, Stanford University, November 2022
- **Podcast:** [The Role of the Farm Bill in How We Eat, Farm and Trade](#)
Environmental and Energy Studies Institute, 5 December 2022
- **Article:** [Liability for Public Deception: Linking Fossil Fuel Disinformation to Climate Damages](#)
Environmental Law Reporter, December 2022
- **Draft Guidance:** [Proposed Risk Management Guidance on Climate-Related Financial Risks for Large Financial Institutions](#)
Federal Reserve, 23 November 2022
- **Article:** [Increasing freshwater supply to sustainably address global water security at scale](#)
Scientific Reports, 6 December 2022
- **Book:** [Newport Manual on Arctic Security](#)
U.S. Naval Institute, November 2022

EVENTS

- [Innovating Out of the Climate Crisis: Hydrogen](#)
13 December 2022 / 12:30 pm ET / 9:30 am PT / Virtual
American Security Project
- [Electrification Station: Decarbonizing City Buildings and Fleets](#)
13 December 2022 / 11:00 am ET / 8:00 am PT / Virtual
Department of Energy
- [Fighting with Nature: How Society is Changing Its Approach to Natural Hazards](#)
14 December 2022 / 2 pm ET / 11 am PT / Virtual
Center for Homeland Defense and Security
- **[NEW]** [Do MPAs matter for climate change mitigation and adaptation?](#)
17 January 2023 / 11:00 am ET / 8:00 am PT / Virtual
NOAA National MPA Center and Open Communications for the Ocean (OCTO)
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers

- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[NEW] [NPS] [EAG Climate Security Pillar Hiring Part-Time Faculty Associate - Research](#)**
Applications due 31 December 2022.
- **[NPS] Decarbonization Call For Proposals**
This call is for research proposals related to Operational Decarbonization and Platform Decarbonization. NPS proposals that partner with California Universities, government laboratories, and relevant industry will be prioritized. Contact me for more information: kristen.fletcher@nps.edu. **Proposals due 10 January 2023.**
- **[Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)**
Comments due 13 January 2023.
- **[Call for Public Comment: Fifth National Climate Assessment](#)**
Comments due 27 January 2023.

Dear CSN Members,

Below are this week's updates from the climate and security world including special sections on Ukraine and on the U.S.-Africa Leaders Summit which took place this week.

This week was a special one for the CSN and the NPS climate and security community. **NPS and the Stanford Doerr School of Sustainability announced its Education Partnership Agreement** which advances the two institutions' efforts to collaborate on climate and energy security and sustainability. The Agreement was signed by NPS President Ann Rondeau and Doerr School Dean Arun Majumdar and they were joined by Secretary of the Navy Carlos Del Toro and former Secretary of Defense Leon Panetta. You can read more at:

- NPS Release: [NPS Joins Forces with Stanford Doerr School of Sustainability to Address Sustainability, Climate and Energy Challenges](#)
- Inside Defense: [NPS partners with Stanford to address climate issues, collaborate on research efforts](#)
- [Fact sheet on the Education Partnership Agreement](#)

Stay tuned for more on this partnership!

And, today is one of my favorite days on campus: **NPS Graduation Day!** We have been honored to work with the following CSN members who graduated from NPS today.

From the U.S. Navy:

Lieutenant Kionna Myles, Master of Business Administration, Material Logistics Support Management (2022 Barrow Fellow)

From the U.S. Army:

Major Matt Alexander, Master of Science in Information Strategy and Political Warfare
Major Eric Forsgren, Master of Science in Systems Engineering Management
Captain John Hohng, Master of Science in Systems Engineering Management
Captain Brian Jernigan, Master of Science in Systems Engineering Management
Major Alexander Kenna, Master of Science in Information Strategy and Political Warfare
Major Joseph Lucas, Master of Science in Systems Engineering Management
Major Steven Moore, Master of Science in Systems Engineering Management
Captain Justin Strait, Master of Science in Systems Engineering Management

Congratulations on your achievements!

Kristen

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

NPS Climate & Security Network Weekly Update: 16 December 2022

Special Section: Ukraine

- MIT News: [Energy, War, and the Crisis in Ukraine](#)
- Reuters: [Zelenskiy says Russian war causes environmental calamity for Ukraine](#)
- Interfax Ukraine: [Zelensky calls on New Zealand to support environmental safety, demining in Ukraine](#)
- Climate Change Knowledge Portal: [Ukraine Country Summary](#)

Special Section: U.S-Africa Leaders Summit

- State Department: [Summit Main Page](#)
- State Department Info Graphics:
 - [Africa: Increases in Evaporative Water Loss from Lakes and Reservoirs](#)
 - [Africa: Conflict Driving Increased Displacement](#)
 - [Africa: Unprecedented Continent-Wide Hunger and Food Insecurity](#)
- DOD Release: [Austin: Listening to African Partners Critical to Development of Productive Relationships](#)
- E&E News: [Biden focuses on climate in Africa summit](#)
- Reuters: [Yellen says food security program to boost funding for sustainable agriculture in Africa](#)
- Modern Diplomacy: [The significance of the U.S.-Africa Leaders Summit](#)

NEWS

- [Water, Peace & Security: New Tools for a New Climate](#)
16 December 2022, New Security Beat
- [NASA Launches International Mission to Survey Earth's Water](#)
16 December 2022, NAS Jet Propulsion Laboratory Release
- [NATO holds roundtable on climate change and security, bringing together Allies and experts](#)
15 December 2022, NATO Release
- [Innovating Out of the Climate Crisis: Hydrogen](#)
15 December 2022, American Security Project
- [Scientists Study an Unexpected Climate Problem: Rising Groundwater Levels](#)
15 December 2022, California Sea Grant
- [Strong action on methane will mean more EU energy security](#)
15 December 2022, Euractiv
- [The Biggest Threats to the U.S. Aren't What You Think](#)
14 December 2022, Politico
- [Warfare and Global Warming](#)
14 December 2022, New Security Beat
- [The Arctic and Antarctic saw record warmth and ice melt in 2022](#)
14 December 2022, New Scientist
- [China Dominates the Rare Earths Market. This U.S. Mine Is Trying to Change That.](#)
14 December 2022, Politico

- [National Ignition Facility achieves fusion ignition](#)
14 December 2022, Lawrence Livermore National Laboratory Release
- [US scientists reach long-awaited nuclear fusion breakthrough, source says](#)
13 December 2022, CNN
- ['First of its kind': EU strikes deal on carbon border tariff](#)
13 December 2022, Al Jazeera
- [How a new subsidy for 'green hydrogen' could set off a carbon bomb](#)
12 December 2022, Grist
- [The Nexus of Climate Change and National Security](#)
12 December 2022, The Cipher Brief
- [Biden-Harris Administration Announces Steps to Electrify and Cut Emissions from Federal Buildings](#)
7 December 2022, Department of Energy Release

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Guidance:** [Guidance for Federal Departments and Agencies on Indigenous Knowledge](#)
Council on Environmental Quality, 30 November 2022
- **Report:** [2022 Arctic Report Card](#)
NOAA Arctic Program, December 2022
- **Podcast:** [Stefan Rahmstorf: 2022 Schneider Award Winner](#)
Climate One, 16 December 2022 (*his work focuses on climate & oceans*)
- **Podcast:** [Invisible Threads: Addressing Migration Through Investments in Women and Girls](#)
New Security Beat, 16 December 2022
- **Article:** [Global climate change risk to fisheries – A multi-risk assessment](#)
Marine Policy, February 2023
- **Report:** [Solving the Climate Crisis 2022: Key Accomplishments and Additional Opportunities](#)
House Select Committee on the Climate Crisis, 12 December 2022
- **Info-Graphic:** [Africa: Increases in Evaporative Water Loss from Lakes and Reservoirs](#)
State Department's Bureau of Intelligence and Research, December 2022
- **Report:** [Building a Clean Energy Economy: A Guidebook to the Inflation Reduction Act's Investments in Clean Energy and Climate Action](#)
White House, December 2022
- **Monthly Summary:** [Assessing the U.S. Climate in November 2022](#)
National Centers for Environmental Information, 8 December 2022
- **Report:** [November 2022 Global Climate Report](#)
National Centers for Environmental Information, December 2022

- **Report:** [Expanding the Role of Nature-Based Solutions in FEMA’s Hazard Mitigation Assistance Programs](#)
The Nature Conservancy, 2022

EVENTS

- **[NEW]** [Global Energy Forum](#)
14-15 January 2023 / Abu Dhabi, UAE & Virtual
Atlantic Council Global Energy Center
- [Do MPAs matter for climate change mitigation and adaptation?](#)
17 January 2023 / 11:00 am ET / 8:00 am PT / Virtual
NOAA National MPA Center and Open Communications for the Ocean (OCTO)
- **[NEW]** [National Security Significance of the Changing Climate: Naval Climate Engagement](#)
19 January 2023 / 9 am – 12 pm ET / 6 am – 9 am PT / Virtual
U.S. Naval War College
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[NPS]** [EAG Climate Security Pillar Hiring Part-Time Faculty Associate - Research Applications due 31 December 2022.](#)
- **[NPS]** **Decarbonization Call For Proposals**
This call is for research proposals related to Operational Decarbonization and Platform Decarbonization. NPS proposals that partner with California Universities, government laboratories, and relevant industry will be prioritized. Contact me for more information: kristen.fletcher@nps.edu. **Proposals due 10 January 2023.**
- [Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)
Comments due 13 January 2023.
- [Call for Public Comment: Fifth National Climate Assessment](#)
Comments due 27 January 2023.
- **[NEW]** **Summer Positions Open:** [Research Associates, Center for Global Security Research](#)

The [Center for Global Security Research \(CGSR\)](#) at Lawrence Livermore National Laboratory (LLNL) is seeking applicants for spring and/or summer 2023 research associates (RAs). **Application closes 28 January 2023.**

Dear CSN Members,

Below are this week's updates from the climate and security world including the special section on Ukraine.

Also, in honor of the holiday season, I'm adding a few extra gifts.

- Attached are a few photos from last week's Education Partnership Agreement signing ceremony for NPS and Stanford University.
- If you're looking for reading over the holidays, here are some lists suggesting climate-related reads.
 - World Economic Forum: [From 'Speed and Scale' to 'Braiding Sweetgrass', these are the 6 books climate leaders want you to read](#)
 - Earth 911: [Inspiring Books About Climate Change](#)
 - Nexus PMG: [Essential Climate Change Reading for 2022](#)
 - Springer: [NATO Science for Peace and Security Series C: Environmental Security](#)

And, finally, I want to thank each of you as members for prioritizing these issues and especially those who contribute by serving on the Planning Team, offering their expertise at events and briefings or sharing updates and thoughts on how we can improve. It's been a privilege working with you this year.

Kristen

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

NPS Climate & Security Network Weekly Update: 23 December 2022

Special Section: Ukraine

- Science News: [Here's how Russia's war in Ukraine is still reshaping global science](#)
- PBS: [Africa faced extreme weather and an international community distracted by Ukraine in 2022](#)
- Reuters: [Hybrid wheat hitting U.S. fields as war, climate threaten global food supplies](#)
- Int'l Rescue Committee: [The top 10 crises the world can't ignore in 2023](#)

NEWS

- [A Look Back at Significant Decisions in Climate Litigation in 2022](#)
22 December 2022, Sabin Center for Climate Change Law
- [Biomass plant that powers Fort Drum to close in March](#)
21 December 2022, WWNYTV
- [FERC Proposes Reforms to Speed Up Approval of Interstate Transmission Infrastructure](#)
21 December 2022, Sabin Center for Climate Change Law

- [**How Changing Diets Leave Us Exposed to War, Extreme Weather and Market Turbulence**](#)
21 December 2022, Bloomberg
- [**5 ways climate change made life more expensive in 2022**](#)
21 December 2022, Grist
- [**Climate Security Favorites 2022: Read, Watch, Listen**](#)
20 December 2022, Center for Climate & Security
- [**What a nuclear fusion breakthrough means for our energy future**](#)
19 December 2022, The Boston Globe
- [**On the Hill in 2022: A Breakdown of Climate, Energy, and Environmental Congressional Hearings**](#)
19 December 2022, Environmental and Energy Study Institute
- [**Biden-Harris Administration Proposes Raising Efficiency Standard for Light Bulbs**](#)
19 December 2022, Department of Energy Release
- [**For the Navy and Marines, weather readiness is climate readiness**](#)
17 December 2022, The Hill
- [**A Battle for the Arctic Is Underway. And the U.S. Is Already Behind.**](#)
17 December 2022, Politico
- [**Water, Peace & Security: New Tools for a New Climate**](#)
16 December 2022, New Security Beat
- [**NOAA to Launch Major Advancement in Seasonal High Tide Flooding Predictions**](#)
14 December 2022, National Ocean Service Release
- [**For the Navy And Marines, Climate Readiness is Mission Readiness**](#)
14 December 2022, Sun Sentinel
- [**The Climate Impact of Your Neighborhood, Mapped**](#)
13 December 2022, The New York Times
- [**23 Predictions for 2023**](#)
13 December 2022, Grist
- [**The G7's role in developing a platform for global cooperation on industrial decarbonization**](#)
13 December 2022, Atlantic Council
- [**University committee formed to review fossil fuel funding of research**](#)
12 December 2022, Stanford Report
- [**Momentum Builds for Global Action on Biodiversity**](#)
8 December 2022, National Academies of Sciences, Engineering, and Medicine
- [**Blazing Questions: As Wildfires Intensify, Who Bears the Cost And Manages the Danger?**](#)

7 December 2022, Insights by Stanford Business

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Ammonia's Potential Role in a Low-Carbon Economy](#)
Congressional Research Service, 7 December 2022
- **Podcast:** [TIL about winter storms](#)
MIT Climate Portal, 15 December 2022
- **Report:** [Federal Involvement in Ocean-Based Research and Development](#)
Congressional Research Service, 7 December 2022
- **Briefer:** [The Climate Change-Security Interface](#)
Center for Security Studies, December 2022
- **Briefer:** [Russia's Future as an Energy Power](#)
Center for Security Studies, December 2022
- **Brief:** [Bolstering Collective Resilience in Europe](#)
Center for Strategic & International Studies, December 2022
- **Report:** [Armed Actors and Environmental Peacebuilding: Lessons from Eastern DRC](#)
U.S. Institute for Peace, 29 November 2022
- **Briefer:** [Walking out of the Woods: EU Industrial Policy between the Energy Crisis and Decarbonisation](#)
Istituto Affari Internazionali, December 2022
- **Report:** [Federal Energy and Water Management: Agencies Report Mixed Success in Meeting Efficiency Requirements, and Additional Data Are Needed](#)
U.S. Government Accountability Office, 15 December 2022
- **Briefer:** [How Arab-Chinese Cooperation Could Impact the Global Energy Transition](#)
Baker Institute for Public Policy, 7 December 2022
- **Report:** [The Role of Development Actors in Responding to Environment and Security Links](#)
Stockholm International Peace Research Institute, December 2022
- **Report:** [Trade and transit: Dubai's role in illicit environmental supply chains](#)
Global Initiative Against Transnational Organized Crime, December 2022
- **Report:** [Arctic Maritime Infrastructure: Government-wide and Coast Guard Strategies Lack a Means to Measure Progress](#)
U.S. Government Accountability Office, 7 December 2022

EVENTS

- [Global Energy Forum](#)
14-15 January 2023 / Abu Dhabi, UAE & Virtual
Atlantic Council Global Energy Center
- [Do MPAs matter for climate change mitigation and adaptation?](#)

17 January 2023 / 11:00 am ET / 8:00 am PT / Virtual
NOAA National MPA Center and Open Communications for the Ocean (OCTO)

- [Workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System](#)
17-19 January 2023 / Virtual
National Academies of Sciences, Engineering, and Medicine
- [National Security Significance of the Changing Climate: Naval Climate Engagement](#)
19 January 2023 / 9 am – 12 pm ET / 6 am – 9 am PT / Virtual
U.S. Naval War College
- [Macroeconomics and Climate-related Risks and Opportunities: An Overview](#)
23 January 2023 / 10 – 4 ET / Washington, DC
National Academies of Sciences, Engineering, and Medicine
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)
26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners
- [Fifteenth International Conference on Climate Change: Impacts and Responses](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[NPS] [EAG Climate Security Pillar Hiring Part-Time Faculty Associate - Research Applications due 31 December 2022.](#)**
- **[NPS] Decarbonization Call For Proposals**
This call is for research proposals related to Operational Decarbonization and Platform Decarbonization. NPS proposals that partner with California Universities, government laboratories, and relevant industry will be prioritized. Contact me for more information: kristen.fletcher@nps.edu. **Proposals due 10 January 2023.**
- **[Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule](#)**
Comments due 13 January 2023.
- **[Call for Public Comment: Fifth National Climate Assessment](#)**
Comments due 27 January 2023.
- **Summer Positions Open: [Research Associates, Center for Global Security Research](#)**
The [Center for Global Security Research \(CGSR\)](#) at Lawrence Livermore National Laboratory (LLNL) is seeking applicants for spring and/or summer 2023 research associates (RAs). **Application closes 28 January 2023.**

Dear CSN Members,

Below is our final climate security update of 2022! I hope everyone has a wonderful New Year and I look forward to working with you in 2023.

Kristen

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

NPS Climate & Security Network Weekly Update: 30 December 2022

Special Section: Ukraine

- The Hill: [The war in Ukraine may help the world save itself from climate ruination](#)
- Just Security: [2023 Forward: Democracy, Russia-Ukraine War, Tech Policy, Climate Change](#)
- Japan Today: [War in Ukraine eclipses opposition to Japan's nuclear policy shift](#)
- ProPakistani: [Russia-Ukraine War Has Derailed Global Energy Transition](#)
- GLOBSEC: [EU climate policy amid Russia's war in Ukraine: A critical overview of key REPowerEU challenges and trajectories towards net-zero](#)
- GLOBSEC: [Ukraine's Energy Sector as the Subject of Russian Attacks](#)

NEWS

- [Climate Change Will Bankrupt Us Before It Drowns Us](#)
28 December 2022, Newsweek
- [Mathematical Alarms Could Help Predict and Avoid Climate Tipping Points](#)
27 December 2022, Inside Climate News
- [Securitising climate policy will keep the Indo-Pacific afloat](#)
26 December 2022, East Asia Forum
- [Why the Language of Climate Change Matters](#)
24 December 2022, Inside Climate News
- [Climate Security and the Fiscal Year 2023 National Defense Authorization Act](#)
23 December 2022, Center for Climate & Security
- [EU's emissions continue to fall despite return to coal](#)
22 December 2022, The Guardian
- [UN chief promises 'no-nonsense' climate summit in 2023](#)
19 December 2022, Al Jazeera
- [Rethinking Academia to Address Climate Change](#)
16 December 2022, Stanford Business School News

- [Energy and Water for Sovereignty: South Sudan’s Regional Diplomacy and the Geopolitics of the Nile Basin](#)
14 December 2022, Columbia Center on Global Energy Policy
- [How Climate Change Helps Violent Nonstate Actors](#)
14 December 2022, Carnegie Endowment for International Peace
- [Thematic Bonds: Financing Net-Zero Transition in Emerging Market and Developing Economies](#)
12 December 2022, Columbia Center on Global Energy Policy

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Paper:** [Feasible climate mitigation](#)
Nature, 22 December 2022
- **Congressional Research Service Reports:**
 - [Australia: Climate Change Issues](#), 14 December 2022
 - [Energy Transition: Affordability, Emissions and Security](#), 15 December 2022
 - [Recent Cryptocurrency Developments: Energy and Environmental Implications](#), 15 December 2022
 - [The U.N. Climate Conference 2022 \(COP27\): Outcomes](#), 19 December 2022
 - [Indian Energy Programs at the Department of Energy](#), 20 December 2022
- **Podcast:** [This Year In Climate](#)
Climate One, 23 December 2022
- **Paper:** [Northern Europe, The Arctic and The Baltic: The ISR Gap](#)
The International Institute for Strategic Studies, 19 December 2022
- **Video:** [Stanford Doerr School of Sustainability Chat with John Doerr, Jon Levin and Arun Majumdar](#)
Stanford Business School, December 2022
- **Report:** [The Resilience of Local Rural Communities Facing the Destruction of Centralised Energy Infrastructure](#)
GLOBSEC, 19 December 2022
- **Article:** [Mongolian Sand and Dust Storms’ Impacts on Asia-Pacific Environmental Security](#)
Daniel K. Inouye Asia-Pacific Center for Security Studies, November 2022
- **White Paper:** [Preventing Global Deforestation: China’s Actions and Opportunities](#)
World Economic Forum, December 2022
- **Report:** [Towards European “Smart Communities”? EU’s Energy Preoccupations and the Lesson of Post-Fukushima Japan](#)
Istituto Affari Internazionali, 16 December 2022
- **Paper:** [Climate Finance Effectiveness: Six Challenging Trends](#)
Center for Global Development, December 2022

- **Report:** [Connectivity in Central Asia at the Crossroads of International Crises: Transport, Energy and Water from Interdependence to New Cooperation Ways](#)
French Institute of International Relations, November 2022
- **Policy Brief:** [Gas and Energy Security in Germany and Central and Eastern Europe](#)
German Council on Foreign Relations, December 2022
- **Paper:** [Climate Policy Curves: Linking Policy Choices to Climate Outcomes](#)
Brookings, December 2022
- **Working Paper:** [Devolution of donor funded climate change adaptation finance](#)
Danish Institute for International Studies, 15 December 2022
- **Working Paper:** [Mapping climate Adaptation finance in Kenya's devolved governance system: a case of Makueni County](#)
Danish Institute for International Studies, 13 December 2022
- **Article:** [The impact of climate change, population growth and development on sustainable water security in Bangladesh to 2100](#)
Nature, 26 December 2022
- **Video:** [NPS – Stanford Doerr School of Sustainability EPA Signing Ceremony](#)
Naval Postgraduate School, 15 December 2022

EVENTS

- [Global Energy Forum](#)
14-15 January 2023 / Abu Dhabi, UAE & Virtual
Atlantic Council Global Energy Center
- [Do MPAs matter for climate change mitigation and adaptation?](#)
17 January 2023 / 11:00 am ET / 8:00 am PT / Virtual
NOAA National MPA Center and Open Communications for the Ocean (OCTO)
- [Workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System](#)
17-19 January 2023 / Virtual
National Academies of Sciences, Engineering, and Medicine
- [National Security Significance of the Changing Climate: Naval Climate Engagement](#)
19 January 2023 / 9 am – 12 pm ET / 6 am – 9 am PT / Virtual
U.S. Naval War College
- [Macroeconomics and Climate-related Risks and Opportunities: An Overview](#)
23 January 2023 / 10 – 4 ET / Washington, DC
National Academies of Sciences, Engineering, and Medicine
- [Arctic Frontiers 2023](#)
30 January – 2 February 2023 / Tromsø, Norway and Virtual
Arctic Frontiers
- [Pacific Climate Workshop: Drought to Deluge: Challenges facing Climate Science and Policy in the West](#)

26 Feb – 1 March, 2023 / Pacific Grove, CA
U.S. Geological Survey and partners

- [**Fifteenth International Conference on Climate Change: Impacts and Responses**](#)
20 – 21 April 2023 / Vancouver, Canada & Virtual
Common Ground Research Networks and partners

OPPORTUNITIES

- **[NPS] Decarbonization Call For Proposals**
This call is for research proposals related to Operational Decarbonization and Platform Decarbonization. NPS proposals that partner with California Universities, government laboratories, and relevant industry will be prioritized. Contact me for more information: kristen.fletcher@nps.edu. **Proposals due 10 January 2023.**
- [**Call for Public Comment: Federal Supplier Climate Risks and Resilience Proposed Rule**](#)
Comments due 13 January 2023.
- [**Call for Public Comment: Fifth National Climate Assessment**](#)
Comments due 27 January 2023.
- **Summer Positions Open: [Research Associates, Center for Global Security Research](#)**
The [Center for Global Security Research \(CGSR\)](#) at Lawrence Livermore National Laboratory (LLNL) is seeking applicants for spring and/or summer 2023 research associates (RAs). **Application closes 28 January 2023.**