

Dear CSN Members,

Below is the climate security update for this week including a special section on a new tool in the U.S., the Climate Vulnerability Index.

Also, some of you at NPS received a Spam email this week from Canada that directly addressed the CSN. The sender did not have the CSN distro but clearly mined the NPS emails listed online to target certain staff and faculty and then added others. The email was reported to our IT and Cybersecurity teams. The CSN does not share its email lists and uses only bcc for mailouts. Let me know if you have any questions.

Hope everyone has a good weekend.

Kristen

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## NPS Climate & Security Network Weekly Update: 6 October 2023

### Special Section: Climate Vulnerability Index

- [The U.S. Climate Vulnerability Index](#)
- [Climate Vulnerability Index Map](#)
- Phys.org: [‘Climate vulnerability index’ shows where action, resources are needed to address climate change threats](#)
- American City & County: [Climate Vulnerability Index ranks the most at-risk communities – many are in the Deep South](#)
- Grist: [How does climate change threaten your neighborhood? A new map has the details.](#)
- Environment International Journal: [Characterizing vulnerabilities to climate change across the United States](#)

### NEWS

- [Can China’s Eco-Authoritarianism Lead Global Climate Action?](#)  
5 October 2023, New Security Beat
- [There’s still a chance for America to reach net-zero, but it requires drastic action](#)  
5 October 2023, Grist
- [Sweden ‘beefing up’ military presence in the Arctic to counter Russian threat](#)  
4 October 2023, Breaking Defense
- [Where’s All the Antarctic Sea Ice? Annual Peak Is the Lowest Ever Recorded.](#)  
4 October 2023, The New York Times
- [Using renewable energy to help rebuild in Ukraine](#)  
4 October 2023, The Hill
- [Fossil fuels, renewables and nuclear: The UK’s changing energy mix](#)

3 October 2023, BBC

- [New Journal: Q&A with Environment and Security's Editorial Team](#)  
3 October 2023, New Security Beat
- [Africa's First Climate Summit: From Victim to Leader?](#)  
2 October 2023, New Security Beat
- [State of Montana Appeals Landmark Climate Change Decision in Youth-led Case](#)  
2 October 2023, Flathead Beacon (MT)
- [The military is turning to microgrids to fight global threats – and global warming](#)  
2 October 2023, NPR
- ['Climate Vulnerability Index' Shows Where Action, Resources are Needed to Address Climate Change Threats](#)  
2 October 2023, Texas A&M Today
- [Slow route to net zero will worsen global climate crisis, IPCC chief warns](#)  
2 October 2023, The Guardian
- [Environment to become a new focus of Swiss foreign policy](#)  
29 September 2023, Swiss Info
- [Interior Department Hosts Interagency Meeting on Utilizing Science to Inform Climate Security Policy](#)  
29 September 2023, U.S. Department of the Interior Release
- [Climate change and NYC: Historic rains buckle city's infrastructure, again](#)  
29 September 2023, NBC News
- [NPS Team Makes Key Breakthrough on Path to Electric Aircraft Propulsion](#)  
28 September 2023, Naval Postgraduate School Release
- [IEA Critical Minerals and Clean Energy Summit delivers six key actions for secure, sustainable and responsible supply chains](#)  
28 September 2023, International Energy Agency Release
- [Climate Change Exacerbating Sudan's Instability, Experts Say](#)  
28 September 2023, VOA
- [Largest Climate Change Lawsuit in History Kicks Off in European Court](#)  
27 September 2023, Foreign Policy
- [Pakistan's Energy Crossroads: Coal Dependency, the Climate Crisis, and a Quest for Sustainability](#)  
26 September 2023, The Diplomat

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

- **Podcast:** [Why the DOD cares about climate change and climate resiliency](#)  
Fed Scoop, 5 October 2023
- **Congressional Research Service Reports:**

- [Climate Change and Extreme Heat](#), 25 September 2023
  - [Environmental Reviews and the 118<sup>th</sup> Congress](#), 19 September 2023
- **Article:** [The neglected role of abandoned cropland in supporting both food security and climate change mitigation](#)  
Nature Communications, 28 September 2023
- **Report:** [Water crises – water opportunities: Promoting water cooperation in the Middle East](#)  
Clingendael Netherlands Institute of International Relations, September 2023
- **Report:** [Protecting People, Planet and Peace: Shaping the Future of the Security Sector](#)  
Geneva Centre for Security Sector Governance, September 2023
- **Podcast:** [Energy Insecurity: Where Climate Change Meets Geopolitics](#)  
The Chicago Council on Global Affairs, 5 October 2023
- **Report:** [Mitigating Global Warming is Not Our Only Problem: Are We “Sleepwalking” Towards a Global Polycrisis?](#)  
Global Risk Institute, September 2023
- **Article:** [The role of IMF financing in a climate-changed world](#)  
Overseas Development Institute, 4 October 2023
- **Articles in Vol 1, Issue 1 of Journal of Arctic and Climate Security Studies:**
  - [US Arctic Strategy Survey](#), September 2023
  - [Climate Change and Arctic Security](#), September 2023
  - [Climate Change Has Awakened the Polar Dragon](#), September 2023
- **Article Collection:** [Just Security’s Climate Archive](#)  
Just Security, 3 October 2023
- **Report:** [The Budgetary Effects of Climate Change and Their Potential Influence on Legislation: Recommendations for a Model of the Federal Budget](#)  
RAND, September 2023
- **Issue Brief:** [India’s Deep Sea Mining Endeavors: A Search for Climate Solutions in Deep Waters](#)  
Manohar Parrikar Institute for Defence Studies and Analysis, 27 September 2023
- **Podcast:** [Policy Approaches for Building Resilience against Sea Level Rise in Coastal Communities](#)  
Environmental and Energy Study Institute, 3 October 2023
- **Note:** [Settling the Climate Debt](#)  
Center for Global Development, 25 September 2023
- **Article:** [Environmental drivers of maritime insecurity: governance, enforcement and resilience in the western Indian Ocean](#)  
Conflict, Security & Development, 25 September 2023
- **Report:** [Benchmarking Asia’s Climate Action: Getting Asia to Net Zero](#)  
Asia Society Policy Institute, September 2023

- **Report:** [Financing Agenda 2023: Are donors missing the mark on the Sustainable Development Goals?](#)  
AIDDATA Research Lab, September 2023
- **Briefing Paper:** [Renewing Human Rights: Inequality, climate and technology at the heart of the human rights agenda](#)  
Chatham House, September 2023
- **Paper:** [The consequences of Russia's war on Ukraine for climate action, food supply and energy security](#)  
Chatham House, 13 September 2023
- **Article:** [Atlanta's 'Cop City' and the relationship between place, policing, and climate](#)  
Brookings, 21 September 2023
- **Podcast:** [What is the risk that CO2 stored underground after carbon capture will escape again?](#)  
MIT Climate Portal, 28 September 2023
- **Paper:** [How Can African Countries Participate in U.S. Clean Energy Supply Chains?](#)  
Carnegie Endowment for International Peace, October 2023
- **Policy Brief:** [From Coal to Consensus: Poland's Energy Transition and Its European Future](#)  
European Council on Foreign Relations, September 2023
- **Canadian Global Affairs Institute Reports:**
  - [Canadian Implications in NATO's Renewed Energy Security Role](#), September 2023
  - [The Race to Security Sustainable Supply Chains: Why Canada and South Korea Ought to be 'Best Friends'](#), September 2023
- **Report:** [Climate change migration is draining Honduras of its people: UN Expert](#)  
Relief Web, 28 September 2023
- **Polar Ice Reports:**
  - [Arctic Sea Ice 6<sup>th</sup> Lowest on Record](#)
  - [Antarctic Sea Ice Sees Record Low Growth](#)
NASA Earth Observatory, September 2023

## EVENTS

- [Exploring Blue Carbon](#)  
11 October 2023 / 3 – 4 pm ET / Noon – 1 pm PT / Virtual  
The Coastal Society
- [One year later: The Inflation Reduction Act and climate progress](#)  
11 October 2023 / 9 – 11:45 am ET / 6 – 8:45 am PT / Washington DC & Virtual  
Brookings
- [Innovations in Weather Intelligence to Tackle Extreme Weather](#)  
12 October 2023 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington, DC and Virtual

Environmental and Energy Study Institute

- **[\[NEW\] A Sea Change in Battery Propulsion](#)**  
12 October 2023 / 6 – 7 pm PT / Virtual  
Middlebury Institute of International Studies at Monterey
- **[Accelerating Decarbonization in the United States: Technology, Policy and Societal Dimensions: Report Release Webinar](#)**  
17 October 2023 / 12:00 – 1:15 pm ET / 9 – 10:15 am PT / Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[Atmospheric Methane Removal: Needs, Challenges and Opportunities](#)**  
17-18 October 2023 / Washington, DC and Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[\[NEW\] Floods in Asia: 2<sup>nd</sup> Annual Ramanathan Climate Conversation](#)**  
31 October 2023 / 10 – 11:15 am ET / 7 – 8:15 am PT / Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[\[NEW\] The Dynamics of Climate and the Macroeconomy: A Workshop](#)**  
1-2 November 2023 / In-person TBD and Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[\[NEW\] Adapting to Rapid Climate Change in the Arctic: Synthesizing Scientific & Indigenous Knowledge](#)**  
2 November 2023 / 6 – 7 pm PT / Virtual  
Middlebury Institute of International Studies at Monterey
- **[What Is Sustainable Science, and How Can We Green Our Labs?](#)**  
8 November 2023 / 2 – 3 pm ET / 11 am – Noon PT / Virtual  
The Association for the Advancement of Sustainability in Higher Education
- **[Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)**  
13-15 November 2023 / Washington, DC  
National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board
- **[\[NEW\] Navigating Equitable Coastal Adaptation in a Rapidly Changing Climate: Float, Retreat, or Do Nothing?](#)**  
16 November 2023 / 6 – 7 pm PT / Virtual  
Middlebury Institute of International Studies at Monterey
- **[DOD Energy & Environment Innovation Symposium](#)**  
28 November – 1 December 2023 / Arlington, VA  
Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- **[AGU 2023 / American Geophysical Union Fall Meeting](#)**  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union

- [\*\*Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability\*\*](#)  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- [\*\*World Ocean Summit & Expo\*\*](#)  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- [\*\*6<sup>th</sup> National Adaptation Forum\*\*](#)  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- [\*\*Climate Leadership Conference\*\*](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [\*\*Call for Papers: Pathways to Sustainability Innovation: Perspectives from Civil Society, Government and Business\*\*](#)  
On Sustainability Research Network / **Proposals due 14 October 2023.**
- [\*\*Call for Input: Atmospheric Methane Removal: Technical Input\*\*](#)  
National Academies of Sciences, Engineering and Medicine / **Input due 31 October 2023.**
- [\*\*Call for Proposals: Operational Energy Management System\*\*](#)  
**Aviation and Space Efficiencies proposals due 1 November 2023.**  
**Ground Vehicle and Hybridization proposals due 2 February 2024.**
- [\*\*Grant Opportunity: FY2024 Weather Program Office Research Programs\*\*](#)  
NOAA / **Applications due 16 November 2023.**
- [\*\*Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet\*\*](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week. Given the Middle East and Eastern Europe conflicts, this week's special section is on climate change and conflict.

I'm also pleased to announce two upcoming events:

- [\*\*Combined Naval Address on Climate, Energy and Environment featuring Dr. Katharine Ricke\*\*](#)  
Presentation title: Geoengineering the Earth's Climate: an introduction to the scientific and governance issues  
24 October 2023 / 12:30 – 1:20 pm ET / 9:30 – 10:20 am PT / Virtual via Zoom
- [\*\*Analysis of Pathways to Reach Net Zero Naval Operations by 2050, Phase II\*\*](#)  
1 November 2023 / 3 – 4 pm ET / 12 – 1 pm PT / Virtual via Zoom

Thanks to everyone who sends in resources and updates,

Kristen

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**NPS Climate & Security Network Weekly Update: 13 October 2023**

**Special Section: Climate Change and Conflict**

- UN Resolution 77/104: [\*\*Protection of the environment in relation to armed conflicts\*\*](#)
- United Nations: [\*\*Security Council Adopts Presidential Statement Addressing Conflict-Induced Food Insecurity in Situations of Armed Conflict\*\*](#)
- International Crisis Group (video): [\*\*Climate Change and Conflict\*\*](#)
- New Security Beat: [\*\*A Reminder from Israel and Gaza on the Importance and Limitations of Environmental Peacebuilding\*\*](#)
- International Monetary Fund: [\*\*Climate Challenges in Fragile and Conflict-Affected States\*\*](#)
- Irish Independent: [\*\*Wars, trade bans and climate change turn food into politics\*\*](#)
- The Washington Post: [\*\*Why another war may further delay aid for nations ravished by climate change\*\*](#)

**NEWS**

- [\*\*White House names first U.S. hydrogen hubs\*\*](#)  
13 October 2023, E&E News
- [\*\*Training on climate security is crucial for the future of peace operations\*\*](#)  
12 October 2023, Stockholm International Peace Research Institute
- [\*\*How to Slow Global Warming: Three Widescale Efforts Could Make the Difference\*\*](#)  
11 October 2023, Homeland Security Today
- [\*\*A Ukrainian energy hub will help Europe's clean transition\*\*](#)  
11 October 2023, Atlantic Council

- [Why climate change is a national security risk](#)  
11 October 2023, Phys.org
- [Getting Mangroves into Coastal Models for Better Climate Prediction](#)  
11 October 2023, Homeland Security Today
- [IMF and World Bank are urged to boost funding for African nations facing conflict and climate change](#)  
11 October 2023, AP News
- [China's Economic Stake in the Middle East: Its Thirst for Oil](#)  
11 October 2023, The New York Times
- [Supreme Court rejects challenge to Biden climate metric](#)  
10 October 2023, E&E News
- [From Floods To Disaster: A Conflict- And Climate-Sensitive Recovery Pathway for Libya](#)  
10 October 2023, New Security Beat
- [The case for investing in Ukraine's energy future](#)  
10 October 2023, Atlantic Council
- [Emerging Threats are Shaping Future of Homeland Defense](#)  
10 October 2023, Department of Defense Release
- [These startups are using AI to cut energy waste from buildings](#)  
9 October 2023, Canary Media
- [US Army's shortfalls and successes in reaching its climate goals](#)  
9 October 2023, Defense News
- [Two months of fire and flood: Greece's climate disasters, visualized](#)  
8 October 2023, NBC News
- [Tensions Rise in the Rio Grande Basin as Mexico Lags in Water Deliveries to the U.S.](#)  
8 October 2023, Inside Climate News
- [Private-Sector Coalition to Build Water Resilience Gathers Pace](#)  
6 October 2023, Forbes
- [In California and Europe, a new dawn for corporate climate disclosure](#)  
5 October 2023, The Hill
- [Climate Change, Conflict and Corruption: Reflecting on Libya's Catastrophic Floods](#)  
5 October 2023, Carnegie Endowment for International Peace
- [New tools are available to help reduce the energy that AI models devour](#)  
5 October 2023, MIT News
- [What's next in the two-front war against climate change and energy insecurity?](#)  
4 October 2023, Atlantic Council



- [Climate change pits clan against clan in drought-hit Somalia](#)  
4 October 2023, Nature
- [Legal and energy experts discuss historic climate case](#)  
4 October 2023, Stanford Woods Institute for the Environment
- [Putin is using high oil prices to test support for Ukraine. Congress' dysfunction plays right into his hands](#)  
4 October 2023, Los Angeles Times
- [The whole village benefits: An effective approach to local project contracting plays a part in combating conflict and the effects of climate change](#)  
4 October 2023, Relief Web
- [What's next in the two-front war against climate change and energy insecurity?](#)  
4 October 2023, Atlantic Council
- [U.S. Defense Department Awards Eavor Contract to Power Military Base through Advanced Geothermal System](#)  
3 October 2023, Globe Newswire
- [Second Annual Trans-Pacific Sustainability Dialogue Aligns Researchers, Industry Leaders and Policymakers to Propel Energy Security Solutions](#)  
2 October 2023, Stanford Freeman Spogli Institute for International Studies
- [Climate journalists need to connect the dots between climate change and the invasion of Ukraine](#)  
29 September 2023, Reuters Institute
- [DoD Launches Energy Storage Systems Campus to Build Domestic Capacity](#)  
18 September 2023, U.S. Department of Defense Release

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Special Issue:** [One Earth: Pathways toward decarbonization](#)  
One Earth Journal, 18 September 2023
- **Video:** [Real Solutions or Expensive Distractions? Proving or Disproving Ocean-Based CDR in the Next 5 Years](#)  
Sabin Center for Climate Change Law, September 2023
- **Article:** [The Evolving Legal Landscape for Ocean-Based Carbon Dioxide Removal](#)  
Sabin Center for Climate Change Law, September 2023
- **Article:** [Nowhere to Run to, Nowhere to Hide: Disasters, Preparedness and Shadow of State Failure on U.S. Islands](#)  
Homeland Security Affairs, September 2023
- **Article:** [Interplay of climate change-exacerbated rainfall, exposure and vulnerability led to widespread impacts in the Mediterranean region](#)  
World Weather Attribution, 19 September 2023
- **Article:** [The decrease in ocean heat transport in response to global warming](#)

Nature Climate Change, 12 October 2023

- **Monthly Report: [Assessing the U.S. Climate in September 2023](#)**  
National Centers for Environmental Information, 10 October 2023
- **Analysis: [Climate change effects on climate dynamics in Iraq: Study of Makhmur, Tal Afar, and Al-Rifai districts](#)**  
Relief Web, 6 October 2023
- **Workshop Proceedings: [Opportunities and Challenges for Digital Twins in Atmospheric and Climate Sciences](#)**  
National Academies Press, September 2023
- **Report: [The Impacts of Climate Change on American Household Finances](#)**  
U.S. Department of the Treasury, September 2023

## EVENTS

- **[\[NEW\] UN Climate Peace and Security Dialogue Series: Leveraging opportunities for peace through climate action](#)**  
17 October 2023 / 3 – 4 pm CET / 6 – 7 am PT / Virtual  
United Nations System Staff College
- **[Accelerating Decarbonization in the United States: Technology, Policy and Societal Dimensions: Report Release Webinar](#)**  
17 October 2023 / 12:00 – 1:15 pm ET / 9 – 10:15 am PT / Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[Atmospheric Methane Removal: Needs, Challenges and Opportunities](#)**  
17-18 October 2023 / Washington, DC and Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[After the EU-US Summit: What's next for international cooperation on industrial decarbonization?](#)**  
24 October 2023, Atlantic Council
- **[Floods in Asia: 2<sup>nd</sup> Annual Ramanathan Climate Conversation](#)**  
31 October 2023 / 10 – 11:15 am ET / 7 – 8:15 am PT / Virtual  
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24 October 2023 / 12:30 – 1:20 pm ET / 9:30 – 10:20 am PT / Virtual via Zoom  
Naval Education Enterprise Climate Collaboration
- **[\[NEW\] \[CSN\] Analysis of Pathways to Reach Net Zero Naval Operations by 2050, Phase II](#)**  
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- [\*\*Adapting to Rapid Climate Change in the Arctic: Synthesizing Scientific & Indigenous Knowledge\*\*](#)  
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- [\*\*Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges\*\*](#)  
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- [\*\*Navigating Equitable Coastal Adaptation in a Rapidly Changing Climate: Float, Retreat, or Do Nothing?\*\*](#)  
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- [\*\*DOD Energy & Environment Innovation Symposium\*\*](#)  
28 November – 1 December 2023 / Arlington, VA  
Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- [\*\*\[NEW\] 2023 UN Climate Change Conference of the Parties \(COP28\)\*\*](#)  
30 November – 12 December 2023 / Dubai, United Arab Emirates  
United Nations Environment Programme
  - [\*\*\[NEW\] Related Event: Global Energy Forum at COP28\*\*](#)  
5-7 December 2023 / Dubai, UAE
- [\*\*AGU 2023 / American Geophysical Union Fall Meeting\*\*](#)  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- [\*\*Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability\*\*](#)  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- [\*\*World Ocean Summit & Expo\*\*](#)  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- [\*\*6<sup>th</sup> National Adaptation Forum\*\*](#)  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals

- [Climate Leadership Conference](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## **OPPORTUNITIES**

- **[NEW]** [Call for Experts: Committee on Offshore Science and Assessment](#)  
National Academies of Sciences, Engineering and Medicine / **Input due 20 October 2023.**
- [Call for Input: Atmospheric Methane Removal: Technical Input](#)  
National Academies of Sciences, Engineering and Medicine / **Input due 31 October 2023.**
- [Call for Proposals: Operational Energy Management System](#)  
**Aviation and Space Efficiencies proposals due 1 November 2023.**  
**Ground Vehicle and Hybridization proposals due 2 February 2024.**
- [Grant Opportunity: FY2024 Weather Program Office Research Programs](#)  
NOAA / **Applications due 16 November 2023.**
- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week and, in honor of World Food Day last Monday, a special section on food security.

Reminder of next week's event:

- [Combined Naval Address on Climate, Energy and Environment featuring Dr. Katharine Ricke](#)  
Presentation title: Geoengineering the Earth's Climate: an introduction to the scientific and governance issues  
24 October 2023 / 12:30 – 1:20 pm ET / 9:30 – 10:20 am PT / Virtual via Zoom

**Reminder for NPS Faculty & staff:** you are invited to a Faculty Roundtable from 10:30 – 11:30 am PT following the lecture. *RSVP for the Faculty Roundtable is required to me by COB today.*

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher  
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**NPS Climate & Security Network Weekly Update: 20 October 2023**

### **Special Section: Food Security**

- Food Navigator Europe: [Eight crops endangered by climate change](#)
- Carbon Brief: [In-depth Q&A: What food waste means for climate change](#)
- NBC News: [China's food security threatened by climate change](#)
- Relief Web: [Food Systems must be rewired to halt escalating hunger and soften climate impacts](#)
- Food Navigator Europe: [Using abandoned croplands can help mitigate food insecurity and climate change, study suggests](#)
- Observer Research Foundation: [Development partnerships for food security: India in the Indo-Pacific](#)

### **NEWS**

- [It's Not Too Late to Galvanize Action on Climate-Affected Mobility](#)  
19 October 2023, Just Security
- [Canada to launch new satellites to monitor climate change, gather military data](#)  
19 October 2023, Space.com
- [UN countries agreed to support climate reparations. Now they're deadlocked on the details.](#)  
19 October 2023, Grist
- [China is set to dominate the deep sea and its wealth of rare metals](#)  
19 October 2023, The Washington Post

- [Water protectors in Hawai'i took on the US military and won](#)  
19 October 2023, Grist
- [Carbon removal looks more promising by the day. Is methane next?](#)  
19 October 2023, E&E News
- [Navy lab funds Durham firm's airborne power generator](#)  
19 October 2023, Coastal Review
- [How 'unabated' snuck into climate negotiations](#)  
18 October 2023, E&E News
- [Combatting The Climate Crisis by Redesigning The Social Safety Net](#)  
18 October 2023, Forbes
- [Water Cooperation and Scientific Networks: A Work of Passion](#)  
17 October 2023, New Security Beat
- [EU hydrogen diplomacy 2.0: aligning climate ambition and energy security](#)  
17 October 2023, Elcano Royal Institute
- [Lack of ambition and attention risks making electricity grids the weak link in clean energy transitions](#)  
17 October 2023, International Energy Agency
- [War on Water Prolongs Misery in Gaza](#)  
17 October 2023, Just Security
- [COP28 in Dubai: Climate Negotiations at a Crossroads](#)  
16 October 2023, Forbes
- [EU to push for COP28 deal on phasing out fossil fuels](#)  
16 October 2023, Reuters
- [Cocaine Codfish: How the War on Drugs can inform the Fight against Illegal Fishing](#)  
16 October 2023, War on the Rocks
- [Southeast Asia looks to renewable power for energy security](#)  
16 October 2023, CNBC
- [Collective effort needed to address climate change, food security](#)  
16 October 2023, Capital Press (OR)
- [Climate change is still the top issue in the 2024 election](#)  
15 October 2023, The Hill
- [The EU just kicked off its biggest climate experiment yet](#)  
15 October 2023, Grist
- [How Megafires Are Remaking the World](#)  
15 October 2023, The New York Times
- [Record North Atlantic heat sees phytoplankton decline, fish shift to Arctic](#)

12 October 2023, Mongabay

- [Opening the way to large-scale solar development that conserves valuable land and supports communities](#)

12 October 2023, Stanford Woods Institute for the Environment

- [Scientists Disagree About Drivers of September's Global Temperature Spike, but It Has Most of Them Worried](#)

11 October 2023, Inside Climate News

- [Lowering cost of clean technologies helps combat climate change](#)

9 October 2023, Carnegie Science

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Report:** [September 2023 Global Climate Report](#)

National Centers for Environmental Information, 13 October 2023

- **Report:** [Integrating Climate Security into Policy Frameworks: Jordan](#)

Relief Web, October 2023

- **Podcast:** [Crises Collide: Balancing Net Zero and Energy Security](#)

Bloomberg Switched On Podcast, October 2023

- **Article:** [Proposed solutions to anthropogenic climate change: A systematic literature review and a new way forward](#)

Heliyon Journal, October 2023

- **Working Paper:** [How trade cooperation by the United States, the European Union, and China can fight climate change](#)

Peterson Institute for International Economics, October 2023

- **Article:** [Status of global coastal adaptation](#)

Nature Climate Change, 19 October 2023

- **Podcast:** [How the Department of Energy is Catapulting Clean Energy Innovation to Commercial Liftoff](#)

Environmental and Energy Study Institute, 17 October 2023

- **Congressional Research Service Reports:**

- [Recent Developments in the Federal Multipronged Approach to Solar and Wind Energy](#) / 3 October 2023

- [United Nations Convention on the Law of the Sea \(UNCLOS\): Living Resources Provisions](#) / 4 October 2023

- [What Happens If the National Flood Insurance Program \(NFIP\) Lapses?](#) / 4 October 2023

- **Podcast:** [What ancient Earth tells us about surviving the climate crisis](#)

New Scientist, 14 October 2023

- **Paper:** [The Arab Gulf Helps Fuel the Global Economy. What It Means for the Energy Transition.](#)

Baker Institute for Public Policy, 12 October 2023

- **Policy Brief:** [Satellite Imagery for Disaster Resilience](#)  
Center for Security Studies (Zurich), October 2023
- **Report:** [A New U.S. Foreign Policy for Global Health](#)  
Council on Foreign Relations, 10 October 2023
- **Report:** [Climate Security, Great Power Competition, and Adversarial Geopolitics in Southeast Asia](#)  
Asymmetric Threats Analysis Center, October 2023
- **Article:** [Energy security: Yours, mine, or ours?](#)  
Observer Research Foundation, 17 October 2023
- **Memo:** [Israel-Hamas war set to impact Jordan's water and energy security amid renewables push](#)  
Al-Monitor, 13 October 2023
- **Conference Videos:** [Engineering the Future for Sustainability](#)  
National Academy of Engineering, October 2023

## EVENTS

- **[CSN] [Combined Naval Address on Climate, Energy and Environment featuring Dr. Katharine Ricke](#)**  
Presentation title: Geoengineering the Earth's Climate: an introduction to the scientific and governance issues  
24 October 2023 / 12:30 – 1:20 pm ET / 9:30 – 10:20 am PT / Virtual via Zoom  
Naval Education Enterprise Climate Collaboration
- **[After the EU-US Summit: What's next for international cooperation on industrial decarbonization?](#)**  
24 October 2023, Atlantic Council
- **[NEW] [What Congress Needs to Know about COP28: Congress and International Climate Finance](#)**  
26 October 2023 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual  
Environmental and Energy Study Institute
  - Related future events include:
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- **[Floods in Asia: 2<sup>nd</sup> Annual Ramanathan Climate Conversation](#)**  
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National Academies of Sciences, Engineering, and Medicine



- [\*\*\[CSN\] Analysis of Pathways to Reach Net Zero Naval Operations by 2050, Phase II\*\*](#)  
1 November 2023 / 3 – 4 pm ET / 12 – 1 pm PT / Virtual via Zoom  
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- [\*\*Climate Leadership Conference\*\*](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [\*\*Call for Input: Atmospheric Methane Removal: Technical Input\*\*](#)  
National Academies of Sciences, Engineering and Medicine / **Input due 31 October 2023.**
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**Aviation and Space Efficiencies proposals due 1 November 2023.**  
**Ground Vehicle and Hybridization proposals due 2 February 2024.**
- **[NEW]** [\*\*Call for Participants: Zero Emission Shipping Mission Event\*\*](#)  
Safety for Crew in Low/Zero Emission Ships project  
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Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, along with some event reminders. To follow the release of the U.S. Implementation Plan related to the Arctic, the special section this week is on climate change in the Arctic.

Reminder of next week's events:

- **Water for Energy (W4E): The Quiet Crisis in the Making and on Border Prosperity in USA-Mexico and Other Regions**  
31 October 2023 / 1200 PT / Spanagel Hall 321, NPS  
Speaker: Dr. Luciano Castillo, Purdue University [in-person only]
- [Analysis of Pathways to Reach Net Zero Naval Operations by 2050, Phase II](#)  
1 November 2023 / 3 – 4 pm ET / 12 – 1 pm PT / Virtual via Zoom

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

**NPS Climate & Security Network Weekly Update: 27 October 2023**

### **Special Section: Climate Change in the Arctic**

- Implementation Plan: [Implementation Plan for the 2022 National Strategy for the Arctic Region](#)
  - Related Document: [Fact Sheet for Implementation Plan](#)
- Defense Daily: [White House Arctic Strategy Implementation Plan Outlines Security Objectives](#)
- OSW Centre for Eastern Studies: [NATO's Polar Quartet: The US, Canada, Denmark and Norway in the Arctic](#)
- Oceanus: [The anatomy of ice](#)
- Scientific American: [Arctic Cyclones are Getting Stronger, More Damaging](#)
- Bloomberg: [Climate Science in Arctic 'Broken' as US and Europe Isolate Russia](#)
- Grist: [The Arctic Ocean is getting louder. Inuit knowledge can help quell the racket.](#)
- Yale Environment 360: [From Carbon Sink to Source: The Stark Changes in Arctic Lakes](#)

### **NEWS**

- [Climate diplomacy in EU foreign affairs](#)  
27 October 2023, Open Access Government
- [How Climate Change Drives Conflict and War Crimes Around the Globe](#)  
26 October 2023, Inside Climate News
- [How hot seas may have fueled Hurricane Otis's sudden intensification](#)

26 October 2023, The Washington Post

- [\*\*The Unexpected Climate Policy That Could Tackle Both National Debt and China\*\*](#)  
26 October 2023, Politico
- [\*\*California Governor Discusses Climate With China's President Ahead Of Closely Watched APEC Meeting\*\*](#)  
25 October 2023, Forbes
- [\*\*When conflict meets climate change, in Gaza and beyond\*\*](#)  
24 October 2023, France 24
- [\*\*Can UM-led team create a 'perfect' reef? Why the U.S. military is banking on it\*\*](#)  
24 October 2023, Miami Herald
- [\*\*Despite Concerns, Nuclear Power isn't Just Safe – it's Critical\*\*](#)  
24 October 2023, American Security Project
- [\*\*Energy Agency Sees Peaks in Global Oil, Coal and Gas Demand by 2030\*\*](#)  
24 October 2023, The New York Times
- [\*\*World shift to clean energy is unstoppable, IEA report says\*\*](#)  
24 October 2023, BBC News
- [\*\*West Antarctic ice sheet faces 'unavoidable' melting, a warning for sea level rise\*\*](#)  
23 October 2023, The Washington Post
- [\*\*World far off track on pledges to end deforestation by 2030\*\*](#)  
23 October 2023, Reuters
- [\*\*How the Israel-Hamas War Imperils Action Against Global Warming\*\*](#)  
23 October 2023, The New York Times
- [\*\*Amid divisions, Italy delays decree aimed at boosting energy security\*\*](#)  
23 October 2023, Reuters
- [\*\*The State of Play for Critical Mineral Policies: A Berlin Climate Security Conference Roundtable\*\*](#)  
23 October 2023, New Security Beat
- [\*\*A Shadowy Corner of International Law Is Threatening Climate Action, U.N. Expert Warns\*\*](#)  
21 October 2023, Inside Climate News
- [\*\*How to decarbonize the world, at scale\*\*](#)  
20 October 2023, MIT Energy Initiative
- [\*\*US Department of Defense awards grant to project aiming to predict how climate change could lead to conflicts over fishing rights\*\*](#)  
20 October 2023, Seafood Source
- [\*\*Climate-aware investing is crucial to financial security\*\*](#)  
20 October 2023, Official Monetary and Financial Institutions Forum

- [Quick takeaways on the United States' historic investment in clean hydrogen hubs](#)  
19 October 2023, Atlantic Council
- [Clean Car Standards, American Competitiveness and National Security](#)  
19 October 2023, American Security Project
- [COP28 and the growing Europe-MENA hydrogen connection](#)  
13 October 2023, Atlantic Council
- [RI National Guard cuts electricity bill by \\$100,000 with rooftop solar](#)  
13 October 2023, New England Real Estate Journal

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Congressional Research Service Reports:**
  - [Light-Duty Vehicles, Air Pollution, and Climate Change](#), 19 October 2023
  - [Building Resilience: FEMA's Building Codes - Policies and Considerations for Congress](#), 17 October 2023
- **Case Study:** [The Interdependence of Climate Security and Good Governance: A Case Study from Pakistan](#)  
Center for Climate & Security, 25 October 2023
- **Report:** [Rapid Environmental Assessment of Kakhovka Dam Breach Ukraine, 2023](#)  
UN Environment Programme, 26 October 2023
- **Paper:** [What climate? The different meaning of climate indicators in violent conflict studies](#)  
Climate Change Journal, October 2023
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)  
Naval Postgraduate School, 1 October 2023
- **Danish Institute for International Studies Policy Briefs:**
  - [Arctic climate science is caught in the middle of geopolitical tension](#), October 2023
  - [The political Economy of Energy Transitions in Africa: Politics and Power in Tanzania](#), October 2023
- **Report:** [Incorporating Environmental Considerations into Defense Acquisition Practices](#)  
RAND, October 2023
- **Video:** [Senator Joe Manchin on driving US industrial competitiveness with hydrogen](#)  
Atlantic Council, October 2023
- **Policy Memo:** [How to deepen transatlantic energy and climate cooperation at the US-EU summit](#)  
Atlantic Council, 16 October 2023
- **Report:** [Better Buildings Progress Report 2023](#)  
U.S. Department of Energy, October 2023

- **Report:** [Conflict Remains the Dominant Driver of Africa’s Food Crisis](#)  
Africa Center for Strategic Studies, 16 October 2023
- **Handbook:** [Supporting Resilience Among Environmental Defenders](#)  
Global Initiative Against Transnational Organized Crime, October 2023
- **Article:** [Four climate frontiers: How mediators can make peace and help protect the planet](#)  
Center for Humanitarian Dialogue, 25 October 2023
- **Commentary:** [Two Pillars for the Green Transition: European Energy Security in the Era of Decarbonization](#)  
Istituto Affari Internazionali, October 2023
- **Report:** [How to strike a grand bargain on EU nuclear energy policy](#)  
Atlantic Council, 16 October 2023
- **World Bank Reports:**
  - [Country Climate and Development Report: Republic of Congo](#), October 2023
  - [Country Climate and Development Report: Romania](#), October 2023
- **Policy Brief:** [Ends of the earth: How EU climate action can weather the coming election storm](#)  
European Council on Foreign Relations, September 2023
- **Report:** [Energy without Russia: The Case of Denmark](#)  
Friedrich, Ebert, Stiftung, October 2023
- **Issue Brief:** [India’s Deep Sea Mining Endeavours: A Search for Climate Solutions in Deep Waters](#)  
Manohar Parrikar Institute for Defence Studies and Analyses, October 2023
- **Policy brief:** [Green Reintegration: Supporting Returning Migrants in Climate-Affected Communities](#)  
Migration Policy Institute, September 2023
- **Article:** [Unavoidable future increase in West Antarctic ice-shelf melting over the twenty-first century](#)  
Nature Climate Change, 23 October 2023
- **Guidance:** [Principles for Climate-Related Financial Risk Management for Large Financial Institutions](#)  
Department of the Treasury, October 2023

## EVENTS

- **[NEW]** [A fireside chat with Ditte Juul Jorgensen, Director-General for Energy at the European Commission](#)  
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Dear CSN Members,

Below is the climate security update for this week, including a special section which offers background and perspectives on COP28 which occurs 30 November – 12 December.

Hope everyone has a nice weekend,

Kristen

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**NPS Climate & Security Network Weekly Update: 3 November 2023**

**Special Section: COP28 Primer**

- Green Biz: [What is COP? Here's a practical explainer](#)
- BBC News: [What is COP28 in Dubai and why is it important?](#)
- Axios: [COP 28 agenda to focus on emissions cuts pre-2030, and money](#)
- IPI Global Observatory: [The Tumultuous Birth of the Loss and Damage Fund: A Game Changer, or More of the Same From Global Climate Negotiators?](#)
- The National News (UAE): [EU says COP28 is chance to show diplomacy 'can still work'](#)
- Reuters: [EU Climate divisions give foretaste of fight looming at COP28](#)
- Bloomberg: [The World Risks Focusing on the Wrong Things at COP28](#)

**NEWS**

- [Deep Rifts at UN Loss and Damage Talks Cast a Shadow on Upcoming Climate Conference](#)  
3 November 2023, Inside Climate News
- [Small islands warn larger economies: climate change "will come for you"](#)  
3 November 2023, Axios
- [Why Indian armed forces must institutionalize climate change in their planning and operations](#)  
2 November 2023, Firstpost
- [New Study Warns of an Imminent Spike of Planetary Warming and Deepens Divides Among Climate Scientists](#)  
2 November 2022, Inside Climate News
- [Wars are closing down the window for climate action](#)  
1 November 2023, Climate Home News
- [September/October 2023 Update: Military Responses to Climate Hazards Tracker](#)  
1 November 2023, The Center for Climate & Security
- [Deep divisions ahead of crucial UN climate talks](#)

31 October 2023, BBC News

- [Climate Change, the Panama Canal and U.S. National Security](#)  
31 October 2023, Georgetown Security Studies Review
- [Europe, The United States, and Qatar: a Trilateral Relationship Boosting Energy Security](#)  
1 November 2023, Atlantic Council
- [Drought Saps the Panama Canal, Disrupting Global Trade](#)  
1 November 2023, The New York Times
- [Engineers develop an efficient process to make fuel from carbon dioxide](#)  
30 October 2023, MIT News
- [Nature Takes Center Stage](#)  
29 October 2023, Forbes
- [Q&A: Rich and Poor Nations Have One More Chance to Come to Terms Over a Climate Change “Loss and Damage” Fund](#)  
28 October 2023, Inside Climate News
- [How to design marine protected areas that keep pace with climate change](#)  
26 October 2023, Stanford News
- [Rafael Mariano Grossi speaks about nuclear power’s role at a critical moment in history](#)  
26 October 2023, MIT News

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Podcast:** [Hot Today, Hotter Tomorrow: Policy Solutions to the Dangers of Extreme Heat](#)  
Environmental and Energy Study Institute, 31 October 2023
- **Report:** [Adaptation Gap Report 2023](#)  
UN Environment Programme, 2 November 2023
- **Article:** [Using a human rights lens to understand and address loss and damage](#)  
Nature Climate Change, 2 November 2023
- **Climate 101:** [How much carbon dioxide would we have to remove from the air to counteract climate change?](#)  
MIT Climate Portal, 26 October 2023
- **Report:** [Global Landscape of Climate Finance 2023](#)  
Climate Policy Initiative, November 2023
- **Article:** [Assessing the size and uncertainty of remaining carbon budgets](#)  
Nature Climate Change, 30 October 2023

- **Podcast:** [Rebecca Solnit on Why It's Not Too Late](#)  
Climate One, 3 November 2023
- **Video:** [ASP Presents on Climate Security at Florida Climate Week 2023](#)  
American Security Project, 31 October 2023

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Stockholm Resilience Centre
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Dear CSN Members,

Below is the climate security update for this week, including a special section on the conflict in Ukraine and its environment. Sending this out a day ahead in honor of Veteran's Day which is observed tomorrow. Thank you to all veterans and their families!

Hope everyone has a nice weekend,

Kristen

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**NPS Climate & Security Network Weekly Update: 10 November 2023**

**Special Section: Ukraine & Environment**

- Ukrinform: [Each day of war cases EUR 120M in damage to Ukraine's environment](#)
- Kyiv Post: [Sweden to Finance Development of Green Transition, Recovery Plan for Ukraine](#)
- Ukrinform: [Germany helps Ukraine collect evidence of Russia's environmental crimes](#)
- The World (video): [The Environmental Cost of the War in Ukraine](#)
- The Kyiv Independent: [Environment Ministry: Russian invasion affects over 20% of Ukraine's conservation areas](#)
- Euromaidan Press: [Two internationally important wetlands in Ukraine almost destroyed](#)

**NEWS**

- [Conflicts intensify climate change risks in Myanmar](#)  
9 November 2023, East Asia Forum
- [UK government responds to the Defence and Climate Change report](#)  
9 November 2023, Conflict and Environment Observatory
- [Climate Change Is Causing Severe Drought in a Volatile Mideast Zone, Study Finds](#)  
8 November 2023, The New York Times
- [Decarbonization By Decree Fails. Can Carbon Markets Fill The Void?](#)  
8 November 2023, Forbes
- [First planned small nuclear reactor plant in the US has been canceled](#)  
8 November 2023, ARS Technica
- [Military emissions, climate funds, and a hard road to COP28](#)  
8 November 2023, OnlySky Media
- [The West wants to help developing countries transition to renewables. It's off to a rocky start.](#)  
7 November 2023, Grist



- [\*\*The Air Force asks Congress to protect its nuclear launch sites from encroaching wind turbines\*\*](#)  
7 November 2023, AP News
- [\*\*Greenland's ice shelves hold back sea level rise. There are just 5 left.\*\*](#)  
7 November 2023, The Washington Post
- [\*\*Feds Bet on Paying for Water Conservation to Protect the Colorado River\*\*](#)  
7 November 2023, Inside Climate News
- [\*\*Chile shuts down a popular glacier, sparking debate about climate change and adventure sports\*\*](#)  
7 November 2023, The Washington Post
- [\*\*Recognizing the International Day for Preventing the Exploitation of the Environment in War and Armed Conflict\*\*](#)  
6 November 2023, New Security Beat
- [\*\*Climate data can save lives. Most countries can't access it.\*\*](#)  
6 November 2023, Grist
- [\*\*Why Canada Is Poised To Become A Carbon Removal Superpower\*\*](#)  
6 November 2023, Forbes
- [\*\*Scientists say only transformational change will avoid environmental tipping points\*\*](#)  
5 November 2023, Eco-Business
- [\*\*Climate Negotiators Reach Framework to Aid Vulnerable Countries\*\*](#)  
4 November 2023, Bloomberg
- [\*\*US Army unit champions environmental protection\*\*](#)  
3 November 2023, U.S. Army Release
- [\*\*Why Hawaii Became a Hotbed of Legal Activism to Protect the Climate\*\*](#)  
2 November 2023, Bloomberg
- [\*\*Warming world, widening gap: Climate change's toll on poverty and inequality in South Africa\*\*](#)  
2 November 2023, Phys.org
- [\*\*As climate disasters mount, the world isn't spending nearly enough to adapt\*\*](#)  
2 November 2023, The Washington Post
- [\*\*Climate's 'Catch-22': Cutting pollution heats up the planet\*\*](#)  
2 November 2023, Reuters
- [\*\*State Department announces partnership with nonprofit on critical mineral supply chains\*\*](#)  
1 November 2023, The Hill
- [\*\*The Israel-Hamas war could threaten energy security across the world\*\*](#)  
1 November 2023, Semafor

- [How greener buildings will pave the way for meeting climate goals](#)  
31 October 2023, Reuters
- [France's Macron Travels to Central Asia, Seeking Friends, Uranium in Russia's Backyard](#)  
31 October 2023, Time
- [Climate crisis: carbon emissions budget is now tiny, scientists say](#)  
30 Monday 2023, The Guardian
- [How Americans View Future Harms From Climate Change in Their Community and Around the U.S.](#)  
25 October 2023, Pew Research Center
- [California Mandates Coastal Cities Plan for Future Sea-Level Rise](#)  
18 October 2023, KQED

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

- **Report:** [Inflation Reduction Act of 2022 \(IRA\): Provisions Related to Climate Change](#)  
Congressional Research Service, 26 October 2023
- **Paper:** [Rewards for Results? Climate Change, Deforestation, and Land Use](#)  
Danish Institute for International Studies, November 2023
- **Report:** [Two Three-Ocean Countries in the 21<sup>st</sup> Century: Canada, the United States, the Indo-Pacific and the Arctic](#)  
Wilson Center and Canada Institute, October 2023
- **Report:** [A roadmap for the global energy transition: Conference proceedings](#)  
RAND Europe, November 2023
- **Article:** [Assessing the size and uncertainty of remaining carbon budgets](#)  
Nature Climate Change, 30 October 2023
- **Monthly Report:** [Assessing the U.S. Climate in October 2023](#)  
National Centers for Environmental Information, 8 November 2023
- **Report:** [Latin America Energy Outlook](#)  
International Energy Agency, November 2023
- **Report:** [What do we have to lose? Understanding and responding to climate-induced loss of life and health](#)  
Overseas Development Institute, October 2023
- **Report:** [Conflict, climate change, food security, and mobility in the Karamoja Cluster](#)  
International Organization for Peacebuilding, 7 November 2023
- **Report:** [Powering India's Future: Towards a People-Positive Energy Transition](#)  
Observer Research Foundation and Global Energy Alliance for People and Planet, November 2023
- **Guide:** [Alternative Development and the Environment](#)

UN Office on Drugs and Crime, October 2023

- **Report:** [“Working On Oil is Forbidden”: Crackdown against Environmental Defenders in Uganda](#)  
Human Rights Watch, November 2023
- **Paper:** [The EU’s approach to climate mobility: Which way forward?](#)  
European Policy Centre and European Investment Bank, 26 October 2023
- **Article:** [Microgrids: Energy Security for Overseas Bases](#)  
Air & Space Operations Review, October 2023 (pdf page 22)
- **Report:** [Less War, Less Warming: A Reparative Approach to US and UK Military Ecological Damages](#)  
Common-Wealth, November 2023
- **Global Initiative Against Transnational Organized Crime Reports:**
  - [Hidden in Plain Sight: Counting the cost of environmental crime](#), November 2023
  - [Impact of Biodiversity Loss and Environmental Crime on Women From Rural and Indigenous Communities](#), October 2023
- **Report:** [Climate Crossfire: How NATO’s 2% military spending targets contribute to climate breakdown](#)  
Transnational Institute, October 2023
- **Video:** [Report Launch - Dirty Money and the Destruction of the Amazon: Uncovering the U.S. Role in Illicit Financial Flows from Environmental Crimes](#)  
Financial Accountability & Corporate Transparency, October 2023
- **Issue Brief:** [Monsoon and Climate Change Threat in the Indian Ocean Region](#)  
Manohar Parrikar Institute for Defence Studies and Analyses, 1 November 2023
- **Paper:** [Climate Change and Regional Instability in the Middle East](#)  
Council on Foreign Relations, October 2023
- **Climate Action, Geopolitical Risks and Strategic Policy: The Western Race to Secure Critical Raw Minerals**  
Istituto Affari Internazionali, October 2023
- **Paper:** [Climate Change in Egypt: Opportunities and Obstacles](#)  
Carnegie Endowment for International Peace, 26 October 2023

## EVENTS

- [Behavior, Energy & Climate Change Conference](#)  
12 – 15 November 2023 / Sacramento, CA  
American Council for an Energy-Efficient Economy, UC Berkeley and Stanford University
- [Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges](#)  
13-15 November 2023 / Washington, DC

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

- **[\[NEW\] What to expect at COP28](#)**  
14 November 2023 / 1:00 pm ET / 10:00 am PT / Virtual  
Atlantic Council
- **[Enhancing Energy Management: Using 50001 Ready to Achieve Decarbonization Goals](#)**  
14 November 2023 / 11 am ET / 8 am PT / Virtual  
U.S. Department of Energy
- **[Navigating Equitable Coastal Adaptation in a Rapidly Changing Climate: Float, Retreat, or Do Nothing?](#)**  
16 November 2023 / 6 – 7 pm PT / Virtual  
Middlebury Institute of International Studies at Monterey
- **[Climate Conversations: Future of Fossil Fuels](#)**  
16 November 2023 / 3 – 4:15 pm ET / Noon – 1:15 pm PT / Virtual  
National Academies of Sciences, Engineering, and Medicine
- **[DOD Energy & Environment Innovation Symposium](#)**  
28 November – 1 December 2023 / Arlington, VA  
Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- **[2023 UN Climate Change Conference of the Parties \(COP28\)](#)**  
30 November – 12 December 2023 / Dubai, United Arab Emirates  
United Nations Environment Programme
  - **[Related Event: Global Energy Forum at COP28](#)**  
5-7 December 2023 / Dubai, UAE
- **[\[NEW\] The Science Behind Carbon Markets](#)**  
3 December 2023 / 6-7:30 am ET / 3-4:30 am PT / Dubai, UAE & Virtual  
Environmental and Energy Study Institute
- **[AGU 2023 / American Geophysical Union Fall Meeting](#)**  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- **[Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)**  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- **[3-2-1 Action: Transforming Climate Plans into Action](#)**  
30 January 2023 / 11 am ET / 8 am PT / Virtual  
U.S. Department of Energy
- **[Getting a Handle on Clean Hydrogen](#)**  
5 March 2024 / 11 am ET / 9 am PT / Virtual  
U.S. Department of Energy

- [World Ocean Summit & Expo](#)  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- [21<sup>st</sup> Annual Climate Prediction Applications Science Workshop \(CPASW\) & 48<sup>th</sup> Annual Climate Diagnostics and Prediction Workshop \(CDPW\) Joint Meeting](#)  
26-29 March 2024 / Tallahassee, Florida  
National Oceanic and Atmospheric Administration
- [6<sup>th</sup> National Adaptation Forum](#)  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- [Climate Leadership Conference](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [Grant Opportunity: FY2024 Weather Program Office Research Programs](#)  
NOAA / **Applications due 16 November 2023.**
- [Call for Ideas: Global Innovation Lab for Climate Finance](#)  
Climate Policy Initiative / **Applications due 27 December 2023.**
- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on the 5<sup>th</sup> National Climate Assessment with perspectives in addition to what was sent on Tuesday of this week. There is also a special section on the U.S.-China climate and energy agreement negotiated this week.

Hope everyone has a nice weekend,

Kristen

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**NPS Climate & Security Network Weekly Update: 17 November 2023**

**Special Section: 5<sup>th</sup> National Climate Assessment**

- [Fifth National Climate Assessment](#)
- BBC: [Climate change: US and China take ‘small but important steps’](#)
- Al Jazeera: [US and China agree to resume stalled cooperation on climate crisis](#)
- Inside Climate News: [Environmental Justice a Key Theme Throughout Biden’s National Climate Assessment](#)
- Fortune: [The U.S. is warming 60% faster than the world is, National Climate Assessment says: ‘We are not prepared for what’s coming’](#)
- Reuters: [US climate assessment lays out growing threats, opportunities as temperatures rise](#)
- Inside Climate News: [Report Charts Climate Change’s Growing Impact in the US, While Stressing Benefits of Action](#)

**Special Section: U.S. – China Energy Agreement**

- The New York Times: [What a U.S.-China Climate Deal Means for COP28](#)
- Reuters: [US, China advance climate cooperation following California talks](#)
- Inside Climate News: [Can US, China Climate Talks Spur Progress at COP28?](#)
- Politico: [What’s mission from the U.S.-China climate deal](#)
- The Washington Post: [In a breakthrough, U.S. and China agree to restart climate talks](#)
- Grist: [China and the US, the world’s biggest polluters, strike a climate deal](#)
- Scientific American: [What the U.S.-China Agreement Means for Greenhouse Gas Emissions](#)

**NEWS**

- [A New Bill Could Help the U.S. Lead on Climate Change and Displacement](#)  
17 November 2023, Just Security
- [Rain or shine: Why upgraded space-based weather-monitoring is crucial for the military](#)  
17 November 2023, Breaking Defense
- [Fort Cavazos Celebrates 18 Years as Tree City USA Community](#)

17 November 2023, U.S. Army Release

- [US Navy seeks to raise allowed number of accidental whale collisions](#)  
16 November 2023, Navy Times
- [Relief, Recovery, and Peace: David Nicholson on COP28's New Theme](#)  
15 November 2023, New Security Beat
- [Fort Knox receives federal grant for next phase of energy resilience](#)  
14 November 2023, The News-Enterprise (KY)
- [The US military is preparing to fight climate change](#)  
14 November 2023, The Boston Globe
- [Analysis: China's emissions set to fall in 2024 after record growth in clean energy](#)  
13 November 2023, Carbon Brief
- [After suspicious incidents, NATO works to protect undersea infrastructure](#)  
13 November 2023, Defense One
- [Five ways the climate crisis impacts human security](#)  
13 November 2023, United Nations
- [U.S. Bets on Small Nuclear Reactors to Help Fix a Huge Climate Problem](#)  
12 November 2023, The New York Times
- [What Canada's most expensive disaster ever teaches us about climate change](#)  
10 November 2023, Grist
- [After a Last-Minute Challenge to New Loss and Damage Deal, U.S. Joins Global Consensus Ahead of COP28](#)  
10 November 2023, Inside Climate News
- [Earth just had its hottest year on record – climate change is to blame](#)  
10 November 2023, Nature
- [Army lab pushes standardized batteries for frontline soldiers: STUB and OSCAR](#)  
10 November 2023, Breaking Defense
- [Hundreds of fires are burning in the Appalachians amid growing drought](#)  
9 November 2023, The Washington Post
- [Desperate for water, a desert city hopes to build a pipeline to the California Aqueduct](#)  
9 November 2023, Los Angeles Times
- [Human-induced climate change compounded by socio-economic water stressors increased severity of drought in Syria, Iraq and Iran](#)  
8 November 2023, World Weather Attribution
- [COP28 conference looks set for conflict after tense negotiations on climate damage fund](#)  
5 November 2023, AP News
- [Paris Agreement at 8: Progress, challenges and road to COP28](#)  
1 November 2023, Down To Earth

- [\*\*The Eight Deadly Sins of Analyzing the Energy Transition\*\*](#)  
13 October 2023, Rocky Mountain Institute

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Report:** [\*\*October 2023 Global Climate Report\*\*](#)  
National Centers for Environmental Information, November 2023
- **Article:** [\*\*Everything Everywhere All at Once: Wars, Climate Change, Natural Disasters, Coups, and Economic Collapse\*\*](#)  
Asia-Pacific Center for Security Studies, November 2023
- **Report:** [\*\*Long-Duration Energy Storage: Resiliency for Military Installations\*\*](#)  
National Renewable Energy Laboratory, October 2023
- **Article:** [\*\*Syria: Facing the dual challenge of climate change and conflict\*\*](#)  
UN Humanitarian, 10 November 2023
- **Article:** [\*\*The Zero Emissions Commitment and climate stabilization\*\*](#)  
Frontiers in Science, 14 November 2023
- **Research Letter:** [\*\*Higher Exposure of Poorer People to Emerging Weather Whiplash in a Warmer World\*\*](#)  
Geophysical Research Letters, October 2023
- **Article:** [\*\*Climate Change and Conflict in Solomon Islands\*\*](#)  
United States Institute for Peace, 2 November 2023
- **Paper:** [\*\*Unearthing Environmental and Human Security Risks: Critical Minerals in the UK's Energy Transition\*\*](#)  
Royal United Services Institute, November 2023
- **Policy Briefing:** [\*\*Geopolitical Energy Futures in South Africa: Strategy Policy Pathways to 2035\*\*](#)  
South African Institute of International Affairs, November 2023
- **Video:** [\*\*In Africa, climate change is igniting armed conflict\*\*](#)  
Deutsche Well (Germany), 28 October 2023
- **Podcast:** [\*\*What's the deal with Iceland?\*\*](#)  
Volts, October 2023 (National Energy Authority interview)
- **Policy Brief:** [\*\*How Should States Manage Climate Mobilities And Planned Relocations? Early Lessons From Fiji And Vanuatu\*\*](#)  
Toda Peace Institute, November 2023
- **Paper:** [\*\*Why could regenerative agriculture be a solution? The "Chianti Classico model"\*\*](#)  
Barcelona Centre for International Affairs, November 2023

## EVENTS

- [\*\*DOD Energy & Environment Innovation Symposium\*\*](#)  
28 November – 1 December 2023 / Arlington, VA



Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)

- **[\[NEW\] Report launch: The global future of nuclear energy](#)**  
29 November 2023 / 7:00 pm ET / 4:00 pm PT  
Atlantic Council
- **[2023 UN Climate Change Conference of the Parties \(COP28\)](#)**  
30 November – 12 December 2023 / Dubai, United Arab Emirates  
United Nations Environment Programme
  - **[Related Event: Global Energy Forum at COP28](#)**  
5-7 December 2023 / Dubai, UAE
- **[The Science Behind Carbon Markets](#)**  
3 December 2023 / 6-7:30 am ET / 3-4:30 am PT / Dubai, UAE & Virtual  
Environmental and Energy Study Institute
- **[AGU 2023 / American Geophysical Union Fall Meeting](#)**  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- **[Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)**  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- **[3-2-1 Action: Transforming Climate Plans into Action](#)**  
30 January 2023 / 11 am ET / 8 am PT / Virtual  
U.S. Department of Energy
- **[Getting a Handle on Clean Hydrogen](#)**  
5 March 2024 / 11 am ET / 9 am PT / Virtual  
U.S. Department of Energy
- **[World Ocean Summit & Expo](#)**  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- **[21<sup>st</sup> Annual Climate Prediction Applications Science Workshop \(CPASW\) & 48<sup>th</sup> Annual Climate Diagnostics and Prediction Workshop \(CDPW\) Joint Meeting](#)**  
26-29 March 2024 / Tallahassee, Florida  
National Oceanic and Atmospheric Administration
- **[6<sup>th</sup> National Adaptation Forum](#)**  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- **[Climate Leadership Conference](#)**  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [Call for Ideas: Global Innovation Lab for Climate Finance](#)  
Climate Policy Initiative / **Applications due 27 December 2023.**
- **FY 2025 SERDP Solicitations**
  - [SERDP Core](#) / Pre-proposals due 9 January 2024.
  - [SERDP Exploratory Development \(SEED\)](#) / Proposals due 14 March 2024.
- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on climate change solutions and hope for which we can be thankful.

Also, I'm pleased to share a journal article by CSN Member Erik Patton and his colleague, Martin Doyle:

- **Article:** [Observed Warming Trends at U.S. Army Basic Combat Training Installations and Implications for Future Recruit Training](#)  
Military Medicine Journal, 16 November 2023

Hope everyone has a nice weekend and for those who celebrate it, a Happy Thanksgiving.

Kristen

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**NPS Climate & Security Network Weekly Update: 22 November 2023**

**Special Section: Gratitude for Climate Change Solutions & Hope**

- Greater Good Magazine: [Seven Ways to Feel Hopeful About Climate Change](#)
- Forbes: [4 Reasons To Have Climate Hope For The Holidays](#)
- NPR: [This trio hopes 'Won't Give Up' will become an anthem for the climate movement](#)
- Forbes: [Dominica's New Whale Reserve And The Whale Poop That Combats Climate Change](#)
- Forbes: [LOLs In Translation: Can Comedy Take Climate Science Mainstream?](#)
- UN Migration: [Honduras: Stories of Hope in the Face of Climate Change](#)
- Devex: [The adaptation solutions helping African farmers tackle climate change](#)

**NEWS**

- [First the drought, then flood: Climate crisis compounds woes for Somalis](#)  
22 November 2023, Al Jazeera
- [Earth to warm up to 2.9C even with current climate pledges: UN](#)  
21 November 2023, Al Jazeera
- ['Not on course': US emissions set for 3% decline in 2023](#)  
21 November 2023, E&E News
- [Nations Are Getting Serious About Climate Action. Just Not Serious Enough, U.N. Says.](#)  
20 November 2023, The New York Times
- [Climate Finance, Food Security and Cracks in the Transatlantic Alliance at COP28: Recommendations for the Global Stocktake](#)  
20 November 2023, Center for Climate & Security
- [Suck carbon from the air? US facility launches novel climate solution](#)

20 November 2023, The Guardian

- [\*\*COP28: A Pivotal Moment for Cities and Subnationals in the Climate Crisis\*\*](#)  
20 November 2023, ICLEI – Local Governments for Sustainability
- [\*\*Five Emerging Technologies That Could Change the Way We Store Energy\*\*](#)  
20 November 2023, American Security Project
- [\*\*US Air Force Approves New Green Aircraft Demonstrator Project\*\*](#)  
19 November 2023, Clean Technica
- [\*\*Earth passed a feared global warming milestone Friday, at least briefly\*\*](#)  
19 November 2023, The Washington Post
- [\*\*War and Peace in the Time of Climate Change\*\*](#)  
18 November 2023, The Northern Express (MI)
- [\*\*White House Announces \\$6B in Climate Resilience Funding\*\*](#)  
18 November 2023, Homeland Security Today
- [\*\*U.S. military quietly revokes planned contract for small nuclear plant at Alaska Air Force base\*\*](#)  
17 November 2023, Northern Journal (AK)
- [\*\*Jordan will not sign water-for-energy deal with Israel\*\*](#)  
17 November 2023, The Jordan Times
- [\*\*How to ensure the Global Food Summit takes us forward – and not back to the past\*\*](#)  
17 November 2023, Overseas Development Institute
- [\*\*Three climate fights will dominate COP28\*\*](#)  
16 November 2023, The Economist
- [\*\*Tennessee’s military department is planning to fund flood preparedness tech – including a ‘mesonet’\*\*](#)  
16 November 2023, WPLN News (Nashville, TN)
- [\*\*UK to seek commitments ‘to keep 1.5 C goal alive’ at Cop28\*\*](#)  
16 November 2023, The National News (UAE)
- [\*\*Cooperation and conflict: The geopolitical push and pull of climate change\*\*](#)  
16 November 2023, Canadian Climate Institute
- [\*\*Hamas-Israel conflict and climate change\*\*](#)  
16 November 2023, The Hindu Business Line
- [\*\*Looking to COP28, Here’s Where Key Past COP Announcements Stand\*\*](#)  
14 November 2023, Environmental and Energy Study Institute
- [\*\*Another looming crisis in the Middle East: Climate Change\*\*](#)  
14 November 2023, Observer Research Foundation
- [\*\*Climate reparations can curb Middle East instability, rich nations told\*\*](#)  
14 November 2023, The National News (UAE)

- [\*\*The Fifth National Climate Assessment Demands the Attention of Congress\*\*](#)  
14 November 2023, Environmental and Energy Study Institute
- [\*\*Rising Tides, Rising Stakes: Climate Change, Conflict and the Pursuit of Sustainable Peace\*\*](#)  
13 November 2023, Modern Diplomacy
- [\*\*Climate risk in a world at war\*\*](#)  
13 November 2023, Institute for Security Studies
- [\*\*COP28 declaration to tie climate funding to conflict for the first time\*\*](#)  
13 November 2023, The New Humanitarian
- [\*\*Saudi minister warns against climate action at expense of the less empowered\*\*](#)  
9 November 2023, Reuters
- [\*\*A New Kind of Trade Deal Could Help Protect the World's Tropical Forests\*\*](#)  
3 November 2023, Insights by Stanford Business

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

- **Plan:** [\*\*Installation Campaign Plan for Environmental Resilience and Energy Readiness\*\*](#)  
Marine Corps Installations Command, October 2023
- **Policy Paper:** [\*\*Environmental Politics in Gulf Cooperation Council States: Strengthening the Role of Civil Society\*\*](#)  
Stockholm International Peace Research Institute, November 2023
- **Report:** [\*\*Ecological Threat Report 2023\*\*](#)  
Institute for Economics & Peace, November 2023
- **Report:** [\*\*Broken Record: Emissions Gap Report 2023\*\*](#)  
UN Environment Programme, November 2023
- **Report:** [\*\*The Energy Transition Dialogues Communiqué\*\*](#)  
Climate Policy Initiative, 21 November 2023
- **Report:** [\*\*A changing climate for peace: navigating conflict in the climate crisis\*\*](#)  
Conciliation Resource, 8 November 2023
- **Podcast:** [\*\*It's Time for World Leaders to Put Their Subsidies Where Their Climate Goals Are\*\*](#)  
Environmental and Energy Study Institute, 14 November 2023
- **Article:** [\*\*Climate Change and Security: The Role of New Technologies at NATO\*\*](#)  
Sea Technology, November 2023
- **Video:** [\*\*What's on the Table for the Negotiations? What Congress Needs to Know About COP28\*\*](#)  
Environmental and Energy Study Institute, 7 November 2023
- **Video:** [\*\*CRC's General Comment on Children and Climate Change\*\*](#)  
Sabin Center for Climate Change Law, October 2023

- **Book: [Urban Climate Law](#)**  
Earth Institute and Columbia University Press, October 2023

## EVENTS

- **[NEW] [Report launch: The global future of nuclear energy](#)**  
30 November 2023 / 7 pm ET / 4 pm PT / Virtual  
Atlantic Council
- **[NEW] [Rethinking Water Markets for Multiple Benefits](#)**  
30 November 2023 / 10:30 am – 4 pm ET / 7:30 am – 1 pm PT / Washington, DC & Virtual  
The National Academies of Sciences, Engineering and Medicine
- **[2023 UN Climate Change Conference of the Parties \(COP28\)](#)**  
30 November – 12 December 2023 / Dubai, United Arab Emirates  
United Nations Environment Programme
  - **[Related Event: Global Energy Forum at COP28](#)**  
5-7 December 2023 / Dubai, UAE
- **[The Science Behind Carbon Markets](#)**  
3 December 2023 / 6-7:30 am ET / 3-4:30 am PT / Dubai, UAE & Virtual  
Environmental and Energy Study Institute
- **[AGU 2023 / American Geophysical Union Fall Meeting](#)**  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- **[NEW] BOEM's Environmental Studies Program 50<sup>th</sup> Anniversary Webinar Series:**
  - **[Showcase Event](#)**  
13 December 2023 / 11:30 am ET / 8:30 am PT / Virtual  
Bureau of Ocean Energy Management
  - **[Future Leaders](#)**  
14 December 2023 / 1 – 2 pm ET / 10 – 11 am PT / Virtual  
Bureau of Ocean Energy Management
- **[NEW] [Unpacking the Fifth National Climate Assessment](#)**  
18 January 2024 / 3 – 4:30 pm ET / Washington, DC  
Environmental and Energy Study Institute
- **[Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)**  
24-26 January 2024 / Aveiro, Portugal & Virtual  
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5 March 2024 / 11 am ET / 9 am PT / Virtual  
U.S. Department of Energy

- [2023 Federal Environmental Symposium](#)  
11-14 March 2023 / Virtual  
Federal Environmental Planning Committee
- [World Ocean Summit & Expo](#)  
11-13 March 2024 / Lisbon, Portugal  
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- [21<sup>st</sup> Annual Climate Prediction Applications Science Workshop \(CPASW\) & 48<sup>th</sup> Annual Climate Diagnostics and Prediction Workshop \(CDPW\) Joint Meeting](#)  
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14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- [Climate Leadership Conference](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [Call for Submissions: Journal of Arctic and Climate Security Studies](#)  
Ted Stevens Center for Arctic Security Studies / **Abstracts due 15 December 2023.**
- [Call for Ideas: Global Innovation Lab for Climate Finance](#)  
Climate Policy Initiative / **Applications due 27 December 2023.**
- [Call for Abstracts: Federal Environmental Symposium](#)  
Federal Environmental Planning Committee / **Abstracts due 29 December 2023.**
- **[NEW]** [Request for Public Nominations for Authors and Scientific/Technical Inputs for the First National Nature Assessment](#)  
Department of the Interior / **Inputs due 4 January 2024.**
- **FY 2025 SERDP Solicitations**
  - [SERDP Core](#) / **Pre-proposals due 9 January 2024.**
  - [SERDP Exploratory Development \(SEED\)](#) / **Proposals due 14 March 2024.**
- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on COP28 that started this week. There is a lot of interesting coverage on COP28 so I categorized the section to be more accessible.

If you're interested in a daily dose of COP28 news, I recommend:

- [COP28 Dispatch](#) (*click sign up box at right*)  
Environment and Energy Study Institute

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher  
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**NPS Climate & Security Network Weekly Update: 1 December November 2023**

**Special Section: COP28**

- [COP28 UAE – United Nations Climate Change Conference](#)

**What to Watch For:**

- Climate One Podcast: [One the Ground at COP28: What's at Stake with the Global Stocktake?](#)
- Center for Climate & Security: [Climate Security at COP28: Issues to Watch](#)
- Reuters: [COP28: What key issues will be discussed at UN climate change conference?](#)
- Al Jazeera: [COP28 Dubai: What were the gains of past five UN climate summits?](#)
- Overseas Development Institute: [Turning up the heat in Dubai: six things to watch at COP28](#)
- The Guardian: [From carbon capture to King Charles: what to look out for at Cop28](#)

**Driving Issues: Finances & GHGs**

- Al Jazeera: [Climate Disaster fund approved at UN's COP28 climate summit](#)
- Foreign Policy: [At COP28, the World Needs to Prioritize Financial Reform](#)
- The Washington Post: [COP28 climate summit begins in Dubai with conflict over fossil fuels but agreement on new fund](#)
- Atlantic Council: [Why COP28 is right to prioritize global methane and flaring reduction](#)

**Perspectives:**

- Forbes: [How To Talk About #COP28 To Anyone](#)
- The New York Times: [So, an Oil Cartel Walks Into a Climate Summit](#)
- The Washington Post: [U.N. chief says 'Earth's vital signs are failing' as leaders meet at COP28](#)
- Stockholm Resilience Centre: [Putting resilience at the heart of COP28](#)
- Grist: ['Phaseout' or 'phasedown'? Why UN climate negotiators obsess over language](#)



## NEWS

- [Climate crisis: The 1.5C threshold explained](#)  
30 November 2023, BBC
- [Gaza, Yemen, Syria, Human Rights, and Oil: The Elephants in the COP28 Room](#)  
30 November 2023, New Security Beat
- [The poor should control carbon emissions, but the rich must eliminate them](#)  
29 November 2023, Brookings
- [Climate change is the biggest human health risk, says Africa's disease boss](#)  
29 November 2023, Reuters
- [El Niño: What it is, how it devastates economies, and where it intersects with climate change](#)  
29 November 2023, The Journalist's Resource
- [Military emissions – the weak point in the war on climate change?](#)  
29 November 2023, Army Technology
- [We Can't Address the Climate Crisis Without Nature](#)  
29 November 2023, Time
- [Air Force to tap geothermal energy in San Antonio as hedge against grid collapse, sabotage](#)  
29 November 2023, Houston Chronicle
- [A plane fueled by fat and sugar has crossed the Atlantic Ocean](#)  
28 November 2023, The Washington Post
- [Climate Financing and Peacebuilding Go Hand in Hand](#)  
28 November 2023, World Politics Review
- [Climate and conflict: Why COP needs to be reformed](#)  
28 November 2023, VoxEU
- [EU MEPs demand transparency from military on climate impact secrecy](#)  
28 November 2023, Interesting Engineering
- [Climate and Conflict Go Hand in Hand in the Middle East](#)  
28 November 2023, Newsweek
- [Fairness and Climate Justice in the Face of Unimaginable Consequences](#)  
28 November 2023, Toda Peace Institute
- [To Avert Climate Crisis, Democracies Need to Protect Civic Space](#)  
27 November 2023, Just Security
- [Now for Some Good News About Climate](#)  
27 November 2023, The Wall Street Journal
- [Climate concerns grow among Mariana Islands locals as US military expands in region](#)  
25 November 2023, ABC

- [Building a safer world through climate security](#)  
22 November 2023, UN Development Programme
- [Removing “soft barriers” to the clean energy transition](#)  
21 November 2023, Stanford Woods Institute for the Environment

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [Assessing the Global Research Landscape at the Intersection of Climate and AI](#)  
Center for Security & Emerging Technology, November 2023
- **Policy Brief:** [Climate change loss and damage: funding for displaced Africans](#)  
Institute for Security Studies, 21 November 2023
- **Policy Brief:** [Towards a climate resilient Agenda 2063](#)  
Institute for Security Studies, 22 November 2023
- **Report:** [Methane Reductions in Oil and Gas, Agriculture and Waste](#)  
Center for Strategic & International Studies, 17 November 2023
- **Report:** [Hydrogen Hubs and Demonstrating the Hydrogen Energy Value Chain](#)  
Congressional Research Service, 17 November 2023
- **Article:** [Responding to climate risks in conflict settings: in search of solutions](#)  
Humanitarian Law & Policy, 23 November 2023
- **Brief:** [Planning for an Uncertain Future: What Climate-Related Conflict Could Mean for U.S. Central Command](#)  
RAND, November 2023
- **Report:** [Climate Adaptation in No-Man’s Land: Bridging the Conflict-Climate Gap](#)  
Overseas Development Institute, November 2023
- **Brief:** [Climate Change and Conflict](#)  
RAND, November 2023
- **Fact Sheet:** [Climate, Peace and Security Fact Sheet: Democratic Republic of the Congo](#)  
Norwegian Institute of International Affairs and Stockholm International Peace Research Institute, November 2023
- **Paper:** [New Energy Supply Chains: Is the UK at Risk from Chinese Dominance?](#)  
Royal United Services Institute for Defence and Security, 16 November 2023
- **Brief:** [Climate-fragility risk brief: El Salvador](#)  
Climate Security Expert Network, November 2023
- **Report:** [Mission Net-Zero: Charting the Path for E-Fuels in the Military](#)  
NATO, November 2023
- **Report:** [Rising Storms: Climate impacts on conflict, community tensions, and hunger](#)  
World Vision, November 2023
- **Article:** [Is it too late to keep global warming below 1.5 °C? The challenge in 7 charts](#)

Nature, November 2023

- **Essay: [Climate finance and geopolitics: The China-US factor](#)**  
Stockholm International Peace Research Institute, 28 November 2023

## EVENTS

- **[2023 UN Climate Change Conference of the Parties \(COP28\)](#)**  
30 November – 12 December 2023 / Dubai, United Arab Emirates  
United Nations Environment Programme
  - **[Related Event: Global Energy Forum at COP28](#)**  
5-7 December 2023 / Dubai, UAE
- **[The Science Behind Carbon Markets](#)**  
3 December 2023 / 6-7:30 am ET / 3-4:30 am PT / Dubai, UAE & Virtual  
Environmental and Energy Study Institute
- **[NEW] [National Climate Assessment Webinars](#)**  
U.S. Global Change Research Program
  - Water: 4 December 2023 / 3 – 4 ET / Noon – 1 PT
  - Forests: 5 December 2023 / 4 – 5 pm ET / 1 – 2 pm PT
  - Energy: 7 December 2023 / 2 – 3 pm ET / 11 am – Noon PT
  - Earth System Processes: 10 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT
  - Mitigation: 11 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT
  - Ecosystems: 12 January 2024 / Noon – 1 pm ET / 9 – 10 am PT
  - Alaska: 17 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT / 11 am – Noon AK
- **[AGU 2023 / American Geophysical Union Fall Meeting](#)**  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- **[NCA5 Webinar: Alaska](#)**  
17 January 2023 / 3 – 4 pm ET / Noon – 1 pm PT / 11 am – Noon AK
- **[Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)**  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- **[3-2-1 Action: Transforming Climate Plans into Action](#)**  
30 January 2024 / 11 am ET / 8 am PT / Virtual  
U.S. Department of Energy
- **[NEW] [Policy Forum on Nature-based Solutions](#)**  
7-8 February 2024 / Washington DC  
National Academies of Sciences, Engineering, and Medicine
- **[Getting a Handle on Clean Hydrogen](#)**  
5 March 2024 / 11 am ET / 9 am PT / Virtual  
U.S. Department of Energy

- [World Ocean Summit & Expo](#)  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- [21<sup>st</sup> Annual Climate Prediction Applications Science Workshop \(CPASW\) & 48<sup>th</sup> Annual Climate Diagnostics and Prediction Workshop \(CDPW\) Joint Meeting](#)  
26-29 March 2024 / Tallahassee, Florida  
National Oceanic and Atmospheric Administration
- [6<sup>th</sup> National Adaptation Forum](#)  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- [Climate Leadership Conference](#)  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners

## OPPORTUNITIES

- [Call for Ideas: Global Innovation Lab for Climate Finance](#)  
Climate Policy Initiative / **Applications due 27 December 2023.**
- **FY 2025 SERDP Solicitations**
  - [SERDP Core](#) / Pre-proposals due 9 January 2024.
  - [SERDP Exploratory Development \(SEED\)](#) / Proposals due 14 March 2024.
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Kristen

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## NPS Climate & Security Network Weekly Update: 8 December 2023

### Special Section: COP28

#### Declarations & Announcements

- [COP28 Declaration on Climate, Relief, Recovery and Peace](#)
- Reuters: [COP28 pledge to curb cooling emissions backed by 63 countries](#)
- Environmental & Energy Study Institute: [COP28 Announcement Tracker](#)
- ANI News: [UAE Armed Forces' Climate Change Strategy launched at COP28](#)
- Just Security: [Tracking COP28: Notable Moments and Key Themes](#)

#### Speaking of Degrees:

- Inside Climate News: [At COP28, More and More Scientists Say Overshooting 1.5 Degrees Is “Inevitable”](#)
- Al Jazeera: [2023 declared hottest year on record as UN slams climate inaction](#)
- Phys.org: [COP28 fossil fuel debate sizzles as world marks record hot year](#)

#### Fossil Fuels & Finances

- The Washington Post: [How a single word could hold up global talks to save the planet](#)
- CNBC: [Leaders at COP28 discuss energy security and the planned transition](#)
- The New York Times: [It's Big Oil vs. Science at the U.N. Climate Summit](#)
- The Economist: [Big oil agrees to slash methane emissions](#)
- Forbes: [The Central Problem for COP28: Where Will All This Money Come From?](#)
- Atlantic Council: [Mobilizing climate finance at COP28: Improving enabling environments in emerging and developing countries](#)

#### Perspectives:

- Inside Climate News: [Q&A: How a Fossil Fuel Treaty Could Support the Paris Agreement and Wind Down Production](#)
- Grist: [The overlooked climate solution making headway at COP28: Doing more with less](#)
- Overseas Development Institute: [COP28 finally shines a spotlight on conflict-affected countries](#)
- Brookings: [COP28 and the ghosts of Copenhagen](#)
- Council on Foreign Relations: [Climate, Conflict, and COP28: The Burden on Unstable Regions](#)

## NEWS

- [November 2023 Update: Military Responses to Climate Hazards \(MiRCH\) Tracker](#)  
7 December 2023, Center for Climate & Security
- [As US defense facilities face rising outage risks, regional transmission could help](#)  
6 December 2023, Utility Dive
- [Human security needs to be prioritized in the Pacific's climate response](#)  
6 December 2023, Australian Strategic Policy Institute
- [EPA lays groundwork for stronger climate rules](#)  
5 December 2023, The Hill
- [San Diego and the Navy are uniquely positioned to respond to climate change. Here's how.](#)  
5 December 2023, The San Diego Union-Tribune
- [The world's biggest energy exporters plot out the next steps toward net zero](#)  
5 December 2023, Atlantic Council
- [The Oil and Gas Decarbonization Charter is a start, but more work remains](#)  
5 December 2023, Atlantic Council
- [The U.S. Farm Bill Could Increase Food Security, Address Climate Change Effects, and Promote Global Stability](#)  
6 December 2023, Just Security
- [Germany bolsters climate foreign policy with new strategy](#)  
6 December 2023, Clean Energy Wire
- [Gabon Maintains Climate Pace After the Coup](#)  
6 December 2023, Forbes
- [Inside the Marshall Islands' life-or-death plan to survive climate change](#)  
5 December 2023, Grist
- [The United States Joins Multinational Declaration to Triple Nuclear Energy Capacity by 2050 to Support Global Climate and Energy Security Goals](#)  
2 December 2023, U.S Department of State Release
- [Organized crime groups pushing environmental security to tipping point](#)  
2 December 2023, INTERPOL

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Backgrounder:** [Global Climate Agreements: Successes and Failures](#)  
Council on Foreign Relations, 5 December 2023
- **Video:** [Special Presidential Envoy for Climate, John Kerry on an inclusive fusion energy future](#)  
Atlantic Council, December 2023

- **Comment:** [Displacement and Migration in the International Climate Negotiations](#)  
German Institute for International and Security Affairs, December 2023
- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)  
Naval Postgraduate School, 1 December 2023
- **Report:** [Cascading climate risks: strategic recommendations for European resilience](#)  
Chatham House, November 2023
- **Report:** [Mission Innovation, Phase 2: More Failed Aspirations to Fight Climate Change](#)  
Information Technology & Innovation Foundation, November 2023
- **Video:** [Winter Reliability: Keeping the Lights on for Civilian & Military Operations](#)  
American Council on Renewable Energy, 5 December 2023
- **Report:** [Private Capital Mobilization for Climate Finance in an International Context](#)  
Center for Strategic & International Studies, December 2023
- **Report:** [Little Green Book on Climate Change](#)  
Organization for Security and Co-operation in Europe, 30 November 2023
- **Info Sheet:** [Climate Collateral: Why the military's impact on climate change can no longer be ignored at COP28](#)  
Transnational Institute, November 2023
- **Report:** [Synchronized: The Impact of the War on Ukraine's Energy Landscape](#)  
Foreign Policy Research Institute, 5 December 2023
- **Report:** [Global Drought Snapshot 2023: The Need for Proactive Action](#)  
International Drought Resilience Alliance & Partners, December 2023
- **Report:** [Science & Tech Spotlight: Ocean Warming](#)  
Government Accountability Office, November 2023
- **Paper:** [Water Valuation and Pricing in India: Imperatives for Sustainable Water Governance](#)  
Observer Research Foundation, November 2023
- **Report:** [EU climate and energy policy after the energy crunch](#)  
Centre for European Reform, December 2023
- **RAND Ebooks:**
  - [Conflict Projections in the U.S Central Command: Incorporating Climate Change](#), November 2023
  - [Defense Planning Implications of Climate Change for U.S. Central Command](#), November 2023
  - [A Hotter and Drier Future Ahead: An Assessment of Climate Change in U.S. Central Command](#), November 2023
  - [Mischievous, Malevolence or Indifference? How competitors and Adversaries Could Exploit Climate-Related Conflict in the U.S. Central Command Area of Responsibility](#), November 2023

- [Pathways from Climate Change to Conflict in U.S. Central Command](#),  
November 2023
- **Paper: [Foundations of UK Energy Security: The Shifting Sands of Oil and Gas](#)**  
Royal United Services Institute, November 2023

## EVENTS

- [AGU 2023 / American Geophysical Union Fall Meeting](#)  
11-15 December 2023 / San Francisco, CA & Virtual  
American Geophysical Union
- [National Climate Assessment Webinars](#)  
U.S. Global Change Research Program
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24-26 January 2024 / Aveiro, Portugal & Virtual  
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National Oceanic and Atmospheric Administration
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EcoAdapt and American Society of Adaptation Professionals
- [Climate Leadership Conference](#)  
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## OPPORTUNITIES

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- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on outcomes of COP28 which concluded this week and an agreement on fossil fuels.

Hope everyone has a nice weekend,

Kristen

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**NPS Climate & Security Network Weekly Update: 15 December 2023**

**Special Section: COP28 Outcomes & Fossil Fuels Agreement**

- United Nations: [Summary of Global Action at COP28](#)
- Stockholm Resilience Centre: [COP28: Promising shifts, but a lot remains unsolved](#)
- Brookings: [The Successes and Failures of COP28](#)
- Forbes: [Your Quick Guide To The Outcomes Of COP28](#)
- Grist: [After COP28, a long road ahead](#)
- The Economist: [In a first, COP28 targets the root cause of climate change](#)
- The Washington Post: [The world just made it clear the fossil fuel era is ending – with some wiggle room](#)
- UN News: [COP28 ends with call to ‘transition away’ from fossil fuels; UN’s Guterres says phaseout is inevitable](#)
- Reuters: [New COP28 draft deal stops short of fossil fuel ‘phase out’](#)
- The Economist: [Climate talks at last lead to a deal on cutting fossil-fuel use](#)

**NEWS**

- [Why the U.S. needs a grid that’s ‘bigger than the weather’](#)  
15 December 2023, E&E News
- [Major Carbon Pricing Setback At COP28 Threatens Climate Change Progress](#)  
14 December 2023, Forbes
- [Unpacking the Impacts of the Fifth National Climate Assessment](#)  
14 December 2023, New Security Beat
- [Nature Got a More Prominent Place at the Table at COP28](#)  
14 December 2023, Inside Climate News
- [Nine breakthroughs for climate and nature in 2023 you may have missed](#)  
14 December 2023, BBC News
- [The world now has a roadmap for food and climate. But it’s missing a few things.](#)  
14 December 2023, Grist

- [Climate change leads to an increase in health alerts](#)  
14 December 2023, Security
- [Is the world capable of stopping a climate apocalypse?](#)  
14 December 2023, Al Jazeera
- [Did the tides turn for oceans at COP28? Climate summit draws mixed reviews](#)  
14 December 2023, Mongabay
- [UNSC: Central Africa Rocked by Coups, Climate Change](#)  
14 December 2023, Mirage
- [Event Summary: Climate Geopolitics and The U.S. Military at COP28](#)  
14 December 2023, Center for Climate & Security
- [The Uncomfortable Geopolitics of the Clean Energy Transition](#)  
13 December 2023, Lawfare
- [The U.S. May Not Have Won Over Critics in Dubai, But the Biden Administration Helped Keep the Process Alive](#)  
13 December 2023, Inside Climate News
- [Central Africa remains among the world's most vulnerable subregions to the impacts of climate change](#)  
13 December 2023, Permanent mission of France Release
- [Winners and losers in the new global climate deal](#)  
13 December 2023, The Washington Post
- [The billion-dollar industry between you and FEMA's flood insurance](#)  
12 December 2023, Grist
- [A Year of 'Unreal' Fire and Warming in the Arctic](#)  
12 December 2023, The New York Times
- [A New UN 'Roadmap' Lays Out a Global Vision for Food Security and Emissions Reductions](#)  
12 December 2023, Inside Climate News
- [COP28: Can climate justice and climate technology be compatible?](#)  
12 December 2023, Stanford Woods Institute for the Environment
- [How the Fight Against Climate Change Is All About Money](#)  
12 December 2023, Foreign Policy
- [How to assess the carbon footprint of a war](#)  
12 December 2023, The Conversation
- [New platform seeks to prevent ocean conflict in the face of climate change](#)  
12 December 2023, Environmental Defense Fund
  - Platform: [Oceans Futures](#)

- [BOEM drops proposed Maryland area from offshore wind auction amid Defense, NASA concerns](#)  
12 December 2023, Utility Dive
- [How two \\$100 million pledges shook an ‘old world’ order at COP28](#)  
11 December 2023, Grist
- [COP28 and global handshakes won’t solve America’s climate crisis, but improved financial markets can](#)  
11 December 2023, Brookings
- [The Marshall Islands Need a Marshall Plan](#)  
11 December 2023, Foreign Policy
- [How does climate change affect food security?](#)  
11 December 2023, Eco-Business
- [As UN talks collapse, the world has no plan to adapt to climate change](#)  
11 December 2023, Grist
- [East Bay Municipal Utilities District project to generate power via drinking water delivery system](#)  
11 December 2023, CBS News
- [DOD Officials Highlight Climate and Energy Security Issues at International Conference](#)  
11 December 2023, U.S. Department of Defense Release
- [Geothermal Ukraine explores a new source for energy security](#)  
11 December 2023, The Ukrainian Weekly
- [The severe El Niño in South America is a preview of a climate-changed world](#)  
11 December 2023, Vox
- [UKHSA’s HECC report shows impacts on public health due to warming climate](#)  
11 December 2023, United Kingdom Health Security Agency Release
- [Fire-Ice Time Bomb Discovered: Climate Change’s Deep Ocean Threat](#)  
10 December 2023, SciTechDaily
- [Bangladesh’s support for climate refugees](#)  
7 December 2023, BBC News
- [Duke Energy disconnects CATL batteries from Marine Corps base over security concerns](#)  
6 December 2023, Reuters
- [Rethinking environmental policy and energy markets for a changing world](#)  
5 December 2023, Stanford Doerr School of Sustainability
- [Global carbon emissions from fossil fuels reached record high in 2023](#)  
5 December 2023, Stanford Doerr School of Sustainability
- [NATO Cannot Combat Climate Change](#)

4 December 2023, Inkstick

- [Leadership on Climate Change and Global Food Security through the Vision for Adapted Crops and Soils](#)

1 December 2023, U.S. Department of State Release

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Podcast:** [This Year in Climate: 2023](#)  
Climate One, 15 December 2023
- **Report:** [Artificial Intelligence for Climate Security](#)  
Stockholm International Peace Research Institute, December 2023
- **Report:** [India: Climate Change Issues](#)  
Congressional Research Service, 5 December 2023
- **Report:** [State and Trends in Climate Adaptation Finance 2023](#)  
Climate Policy Initiative, December 2023
- **Fact Sheet:** [Marking the Two-Year Anniversary of the Report on the Impact of Climate Change on Migration](#)  
White House, 1 December 2023
- **Book Review:** [Daniel O'Connor reviews America's New Map: Restoring Our Global Leadership in an Era of Climate Change and Demographic Collapse by Thomas Barnett](#)  
Homeland Security Affairs Journal, December 2023
- **Report:** [Perspective: Insights and Opportunities for the U.S. Department of Defense Zero-Emissions Vehicle Transition](#)  
American Security Project, December 2023
- **Report:** [Achieving Equitable Recovery: A Post-Disaster Guide for Local Officials and Leaders](#)  
Federal Emergency Management Agency, November 2023
- **Report:** [2023 Arctic Report Card](#)  
National Oceanic and Atmospheric Administration, December 2023
- **Monthly Report:** [Assessing the U.S. Climate in November 2023](#)  
National Centers for Environmental Information, 8 December 2023

## EVENTS

- **[NEW]** Coast Guard Cutter *Healy* with Captain Michele Schallip  
18 December 2023 / 12:00 pm ET / 9:00 am PT / Naval War College  
[Zoom Link](#) / Passcode: 666955 / Meeting ID: 796 893 4735
- **[NEW]** Ted Stevens Center for Arctic Security  
19 December 2023 / 10:00 am ET / 7:00 am PT  
RECESS / Email [elizabeth.k.king-doonan.civ@army.mil](mailto:elizabeth.k.king-doonan.civ@army.mil) for more information
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- [Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet](#)  
Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on what may be a holiday gift for some (and a lump of coal for others): a clean hydrogen production credit in proposed regulations from the Department of the Treasury and Internal Revenue Services which were released today.

Hope everyone has a nice weekend and a happy holiday season,

Kristen

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## NPS Climate & Security Network Weekly Update: 22 December 2023

### Special Section: Hydrogen Tax Credit Plan

- Department of the Treasury: [U.S. Department of the Treasury, IRS Release Guidance on Hydrogen Production Credit to Drive American Innovation and Strengthen Energy Security](#)
- Reuters: [US unveils clean hydrogen plan, nuclear power role uncertain](#)
- Axios: [Biden attempts climate-friendly hydrogen tax plan](#)
- AP News: [Hydrogen tax credit plan unveiled as Biden administration tries to jump start industry](#)
- New York Times: [A Lucrative Tax Credit for Making Clean Fuel Won't Be So Easy to Get](#)
- Forbes: ['Green' Hydrogen Makers Say Strict Federal Tax Credit Rules Will Stall U.S. Boom](#)

### NEWS

- [The link between climate change and a spate of rare disease outbreaks in 2023](#)  
22 December 2023, Grist
- [Could Climate Data Come From Sensor Platforms That Fly, Crawl & Swim?](#)  
21 December 2023, Forbes
- [Bottom-Up Food Waste and Climate Solution in China](#)  
21 December 2023, New Security Beat
- [How 2023 changed the way states do climate policy](#)  
21 December 2023, E&E News
- [The Climate Crisis and Aging: Capitalizing on Traditional Knowledge and Innovation](#)  
20 December 2023, Just Security
- [Powering the Mission: MCAS Miramar Microgrid Brightens the Future during Steel Knight](#)  
20 December 2023. U.S. Marine Corps Release

- [Strengthening Climate Security Through Enhanced Security Sector Governance](#)  
20 December 2023, U.S. Department of State
- [Worldwide demand for humanitarian aid rises to record high, as more than 40% remains unmet](#)  
20 December 2023, El País
- [COP28 Is Over. But Climate Pledges Are Still Emerging in the Final Days of 2023](#)  
19 December 2023, Inside Climate News
- [How Climate Change Fuels Conflict in the Sahel](#)  
19 December 2023, American Security Project
- [A New Tool to Assess Environmental Peacebuilding](#)  
19 December 2023, New Security Beat
- [Refugees create demographic, economic, environmental, security challenges for Jordan](#)  
17 December 2023, The Jordan Times
- [It's time to take climate change seriously in conflict resolution, says International Crisis Group head](#)  
15 December 2023, CNN
- [Climate Change, Conflict and Disease Outbreaks All Loom as Global Health Threats at Close of 2023](#)  
15 December 2023, Health Policy Watch
- [Raytheon to create DARPA's airborne "wireless internet for energy"](#)  
14 December 2023, New Atlas
- [Charting energy transitions in the Eastern Mediterranean and Arabian Peninsula](#)  
8 December 2023, Atlantic Council
- [An introduction to regional perspectives on climate change: Gulf Cooperation Council and Turkey](#)  
8 December 2023, Atlantic Council

#### REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Policy Brief:** [Gulliver Unchained? Europe's Changing Relations with Oil and Gas Producers](#)  
Egmont Royal Institute for International Relations, December 2023
- **Report:** [Climate Security Challenges in Iraq: Entry points for local-level dialogue](#)  
Berghof Foundation, 20 December 2023
- **Policy Brief:** [Charting a Green and Competitive Future for Europe](#)  
Egmont Royal Institute for International Relations, December 2023
- **Report:** [Strategies to Mitigate the Risk to the National Critical Functions Generated by Climate Change](#)  
RAND, December 2023



- **Report:** [Solar storms: a new challenge on the horizon?](#)  
Council of the European Union, December 2023
- **Brief:** [Balancing Act: Managing European Dependencies on China for Climate Technologies](#)  
Center for Strategic and International Studies, December 2023
- **Podcast:** [Can the World Move Away from Fossil Fuels](#)  
Just Security, 22 December 2023
- **Report:** [The future of clean energy in the Americas](#)  
Atlantic Council, December 2023
- **Report:** [Artificial Intelligence for Climate Security](#)  
Stockholm International Peace Research Institute, December 2023
- **Brief:** [China's Essential Role in the Gulf States' Energy Transitions](#)  
Center for Strategic & International Studies, December 2023
- **Article:** [NOAA fisheries research geared towards climate-ready living marine resource management in the northeast United States](#)  
PLOS Climate, 15 December 2023
- **Brief:** [National Oil Companies, Climate Commitments, and Methane](#)  
Center for Strategic and International Studies, December 2023
- **Report:** [The Uncertain Costs of New Nuclear Reactors: What Study Estimates Reveal about the Potential for Nuclear in a Decarbonizing World](#)  
Center on Global Energy Policy, December 2023
- **Report:** [The Battle for Truth on Water, Climate and the Environment](#)  
Stockholm Hub on Environment, Climate and Security, December 2023
- **Report:** [China's Global Energy Interconnection: Exploring the Security Implications of a Power Grid Developed and Governed by China](#)  
RAND, December 2023
- **Report:** [The Oil and Gas Industry in Net Zero Transitions](#)  
International Energy Agency, December 2023
- **Paper:** [Indigenous Equity and its growing role in Canadian energy and resource development](#)  
MacDonald-Laurier Institute, December 2023
- **Brief:** [Emerging Hydrocarbon Producers in Africa](#)  
U.S. Energy Information Administration, 8 December 2023
- **Commentary:** [Between Security and Transition: Prospects for German-Italian Energy Cooperation](#)  
Istituto Affari Internazionali, December 2023
- **Journal Issue:** [Russia and the global food supply](#)  
Russian Analytical Digest, December 2023

- **Article:** [Contradictions Within The PRC's Climate Strategy](#)  
China Brief, 15 December 2023
- **Report:** [China's Climate Disclosure Regime: How Regulations, Politics, and Investors Shape Corporate Climate Reporting](#)  
Center on Global Energy Policy, November 2023
- **Report:** [From the Ground Up: Demining Farmland and Improving Access to Fertilizer to Restore Ukraine's Agricultural Production](#)  
Center for Strategic & International Studies, December 2023
- [Ecological Sources of Coastal, National, and Global Security](#)  
Council on Strategic Risks, 18 December 2023
- **Research Paper:** [Insights on Climate, Peace and Security](#)  
Norwegian Institute of International Affairs and Stockholm International Peace Research Institute, December 2023
- **Report:** [Is Climate Change Influencing Wildfires? Climate Change Effects on Wildfires in the United States](#)  
Congressional Research Service, 15 December 2023
- **Report:** [Nuclear Energy: Overview of Congressional Issues](#)  
Congressional Research Service, 8 December 2023

## EVENTS

- [National Climate Assessment Webinars](#)  
U.S. Global Change Research Program
  - Earth System Processes: 10 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT
  - Mitigation: 11 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT
  - Ecosystems: 12 January 2024 / Noon – 1 pm ET / 9 – 10 am PT
  - Alaska: 17 January 2024 / 3 – 4 pm ET / Noon – 1 pm PT / 11 am – Noon AK
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17 January 2024 / 10:30 – 12:30 GMT / Virtual  
Overseas Development Institute
- [Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability](#)  
24-26 January 2024 / Aveiro, Portugal & Virtual  
University of Aveiro (Portugal)
- [3-2-1 Action: Transforming Climate Plans into Action](#)  
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U.S. Department of Energy
- [Policy Forum on Nature-based Solutions](#)  
7-8 February 2024 / Washington DC  
National Academies of Sciences, Engineering, and Medicine

- **[NEW] [The Geopolitics of Going Green](#)**  
22 February 2024 / 14:30 – 16:00 GMT / Virtual  
Overseas Development Institute
- **[Getting a Handle on Clean Hydrogen](#)**  
5 March 2024 / 11 am ET / 9 am PT / Virtual  
U.S. Department of Energy
- **[World Ocean Summit & Expo](#)**  
11-13 March 2024 / Lisbon, Portugal  
World Ocean Initiative, The Economist Group
- **[21<sup>st</sup> Annual Climate Prediction Applications Science Workshop \(CPASW\) & 48<sup>th</sup> Annual Climate Diagnostics and Prediction Workshop \(CDPW\) Joint Meeting](#)**  
26-29 March 2024 / Tallahassee, Florida  
National Oceanic and Atmospheric Administration
- **[NEW] [2024 Stockholm Forum on Peace and Development](#)**  
6 May 2024 / Stockholm & Virtual  
Stockholm International Peace Research Institute
- **[6<sup>th</sup> National Adaptation Forum](#)**  
14-16 May 2024 / Saint Paul, MN  
EcoAdapt and American Society of Adaptation Professionals
- **[Climate Leadership Conference](#)**  
21-23 May 2023 / Cleveland, OH  
The Climate Registry and partners
- **[NEW] [17<sup>th</sup> International Conference on Climate Change: Impacts & Responses](#)**  
23 – 25 January 2025 / Miami, FL  
Florida International University and Partners

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- **FY 2025 SERDP Solicitations**
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Environmental Protection Agency / **Applications accepted on a rolling basis through 21 November 2024.**

Dear CSN Members,

Below is the climate security update for this week, including a special section on climate change in 2023 – happenings, successes, and perspectives. Hope you enjoy.

Many thanks to those of you who have contributed to the CSN weekly throughout the year. I am in the fortunate position of learning new things that many of our members share each week. I'm excited to work with you all in 2024!

Hope everyone has a Happy New Year!

Kristen

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## NPS Climate & Security Network Weekly Update: 29 December 2023

### Special Section: Climate Change in 2023

#### Good News & Solutions

- NPR: [A naturalist finds hope despite climate change in an era he calls “The End of Eden”](#)
- MIT Technology Review: [There was some good climate news in 2023. Really.](#)
- Grist: [A look back at US climate solutions this year](#)
- Fast Company: [10 climate tech innovations that give us hope for 2024](#)
- Forbes: [A Year Of Pivotal Climate and Energy Wins](#)

#### Looking back at 2023

- Inside Climate News: [2023 in Climate News](#)
- Grist: [Here’s how experts graded US climate progress in 2023](#)
- Bulletin of the Atomic Scientists: [The six best climate stories of 2023](#)
- UN Environment Programme: [Looking back at top moments for the environment in 2023](#)
- CNN (video): [Counting down the 10 biggest climate stories of 2023](#)

#### A Record-Setting Year

- Foreign Policy: [2023 Was Another Record Year for Climate Change](#)
- World Weather Attribution: [Climate change fueled extreme weather in 2023; expect more records in 2024](#)

#### Climate in Photos 2023

- Euronews: [Climate change in pictures? 2023 was a year of deadly weather, protest crackdowns and historic deals](#)
- AP News: [AP Photos reveal intensity, insecurity and inequality in 2023 as world altered by climate change](#)
- Yale Climate Connections: [2023 in photos: A year of pain and progress on climate change](#)

NEWS

- [\*\*EVs and \\$9,000 Air Tanks: Iowa First Responders Fear the Dangers – and Costs – of CO2 Pipelines\*\*](#)  
29 December 2023, Inside Climate News
- [\*\*Water increasingly at the center of conflicts from Ukraine to the Middle East\*\*](#)  
28 December 2023, Los Angeles Times
- [\*\*Be Careful -- Not All Carbon Reductions Are Made Equal\*\*](#)  
28 December 2023, Forbes
- [\*\*Iranian-Linked Hacks Expose Vulnerabilities of US Water System\*\*](#)  
27 December 2023, Insurance Journal
- [\*\*Russia accuses US of threatening global energy security\*\*](#)  
27 December 2023, Al Jazeera
- [\*\*Is climate change speeding up? Here's what the science says.\*\*](#)  
26 December 2023, The Washington Post
- [\*\*The Uses and Limits of Global Climate Conferences\*\*](#)  
26 December 2023, Columbia Climate School News
- [\*\*Earth Was Due for Another Year of Record Warmth. But This Warm?\*\*](#)  
26 December 2023, The New York Times
- [\*\*U.S. Army, National Guard Stay Ahead Of EV Transition Goals in 2023\*\*](#)  
26 December 2023, Clean Technica
- [\*\*Brace for supply chain risks from conflict and climate change in 2024\*\*](#)  
26 December 2023, The Business Times
- [\*\*The Climate Treadmill Speeds Up At Cop28, But Critics Say It's Still Not Going Anywhere\*\*](#)  
25 December 2023, Inside Climate News
- [\*\*Climate Security Provisions in the FY24 National Defense Authorization Act\*\*](#)  
23 December 2023, Center for Climate & Security
- [\*\*Climate activists end 2023 with major court wins\*\*](#)  
22 December 2023, E&E News
- [\*\*Nuclear had a moment at COP28 – but it may be short-lived\*\*](#)  
21 December 2023, Grist
- [\*\*How Climate Change Fuels Conflict in the Sahel\*\*](#)  
19 December 2023, American Security Project
- [\*\*How long will it take temperatures to stop rising or return to 'normal,' if we stop emitting greenhouse gases?\*\*](#)  
19 December 2023, MIT Climate Portal
- [\*\*Scientists convert CO2 into clean fuel\*\*](#)  
18 December 2023, ClimateWire

## REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Slide Deck:** [The Era of Flat Power Demand is Over](#)  
Clean Grid Initiative & Grid Strategies, December 2023
- **Podcast:** [Can the World Move Away from Fossil Fuels](#)  
Just Security, 22 December 2023
- **Event Summary:** [Climate Change and The Security Case for Agricultural Adaptation Investment](#)  
Center for Climate & Security, 21 December 2023
- **Video:** [Boots on the Ground: Saving Species, Supporting the Mission](#)  
Department of Defense, December 2023

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