

Dear CSN Members,

Below are climate and security updates for this week; thanks again to those of you who forward items of interest. It makes for a richer list!

Also, the CSN is planning two speaker events this fall, including one in November to provide perspectives following COP26. Stay tuned for details about those events.

Have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 1 October 2021

NEWS

- [**What's the Trick to keep grids humming along on solar, wind and batteries alone?**](#)
Canary Media, 29 September 2021
- [**Temporary Power Generators Now Online to Support California's Electricity Grid**](#)
CA Department of Water Resources, 29 September 2021
- [**Food as a pathway to Peace: COVID, Climate and the Hunger-Conflict Nexus**](#)
New Security Beat, 28 September 2021
- [**NASA Drought Research Shows Value of both Climate Mitigation and Adaptation**](#)
NASA, 28 September 2021
- [**The Secret War of Pentagon Aid in Fighting Wildfires**](#)
NY Times, 27 September 2021
- [**Biden appoints Arctic Research Commissioners**](#)
Alaska Public Media, 24 September 2021
- [**DoD Releases Draft Environmental Impact Statement for Project Pele Mobile Microreactor**](#)
DOD News, 24 September 2021
- [**The Department of Defense will build a prototype mobile nuclear microreactor to meet energy demands of U.S. military**](#)
Insider, 24 September 2021
- [**Could solar panels in space power Army operations on earth?**](#)

C4ISRNet, 24 September 2021

- [Deep Determination: China's Climate Commitments](#)
New Security Beat, 23 September 2021
- [Global Climate Crisis's Dire Impact on Peace, Security Calls for Bolder Collective Action, Secretary-General Tells Security Council](#)
Relief Web, 23 September 2021
- [Engineering Responses to Climate Change](#)
The National Academies, 23 September 2021
- [The quest to generate zero-impact renewable power](#)
Energy Monitor, 22 September 2021
- [NASA Finds 2021 Arctic Summer Sea Ice 12th Lowest on Record](#)
NASA, 22 September 2021
- [Biden Administration Unveils Plan to Protect Workers and Communities from Extreme Heat](#)
Inside Climate News, 20 September 2021

EVENTS

- **[new]** [Sustainability Week: Countdown to COP26](#)
4 – 7 October 2021
Hosted by *The Economist*
- **[new]** [Alliances for Climate Action: 6th Annual Forum](#)
6 -27 October 2021 / Wednesdays from 12:00 – 2:00 pm ET / 9:00 – 11:00 am PT
Hosted by the Resilient Nation Partnership Network, FEMA and NASA
 - 6 October – Our Future Vision
 - 13 October – When Climate Moves Communities
 - 20 October – Stories that Inspire
 - 27 October – Financing Climate Action
- [Green Shipping: A Sustainability Journey for the U.S.' Largest Ocean Carrier](#)
5 October 2021 / 6 – 7 pm PT
Hosted by Center for the Blue Economy, Middlebury Institute of International Studies
- [Environmental and Energy Study Institute](#) Briefings leading up to COP 26
8 – 22 October 2021

- 8 October: Creating Policies, Coalitions & Actions for Global Sustainable Development
 - 15 October: Momentum on Climate Adaptation
 - 20 October: The Role of International Finance
 - 22 October: The Negotiations: What's on the Table
- **[new] [Communities, Climate Change, and Health Equity – A New Vision](#)**
12 – 14 October 2021
Hosted by the National Academies
 - **[Climate Leadership Conference](#)**
13-15 October 2021 / New Orleans
Hosted by the Center for Climate and Energy Solutions and The Climate Registry
 - **[2021 Regional Conference on Permafrost & 19th International Conference on Cold Regions Engineering](#)**
24-29 Oct 2021
Hosted by the US Permafrost Association and the American Society of Civil Engineers
 - **[new] NOAA Emerging Technologies Workshop**
25-28 October 2021
For information: etw.logistics@noaa.gov.
To RSVP: Meredith.Wagner@noaa.gov; include name/contact information.
 - **DoD Arctic S&T Workshop**
16-18 November 2021
Hosted by OSD(R&E), this meeting will be in-person in Hanover, NH and virtual. To participate or inquire, send contact info to: Dawn.E.Hathaway@usace.army.mil.

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Fact Sheet: [Climate Jobs 2021](#)**
Environmental and Energy Study Institute, September 2021
- **Report: [February 2021 Cold Weather Grid Operations: Preliminary Findings and Recommendations](#)**
FERC, 20 September 2021
- **Paper: [Climate Change Risk Assessment 2021](#)**
Chatham House, 14 September 2021
- **Fact Sheet: [Climate Security Challenges in Northeastern Florida](#)**
American Security Project, August 2021

OPPORTUNITIES

- [DARPA Opportunity: AI-Assisted Climate Tipping-point Modeling \(ACTM\)](#)
Proposals due 14 October 2021
- **[new]** [Positions available at the American Security Project](#)
 - Fellow / Senior Fellow for Climate Security
 - Veterans Climate Security Fellowship

Dear CSN Members,

Below are climate and security updates for this week, including a special section on the DoD Climate Adaptation Plan released this week and a link to an opinion piece by CSN member and NPS faculty member, Dan Eisenberg.

Also, please note the listing for the upcoming CSN Speaker Series – Mike Clancy on 26 October to discuss wind energy and the proposed Morro Bay wind farm.

Have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 8 October 2021

Special Resource Section:

DoD Climate Adaptation Plan, Released 7 October 2021

- [Link to Document](#)
- [DoD News: DoD Announces Strategy to Tackle Climate Crisis](#)
- [Statement by Secretary of Defense Austin](#)
- [White House Fact Sheet: Biden Administration Releases Agency Climate Adaptation and Resilience Plans from across Federal Government](#)

Analysis/Commentary

- [Center for Climate & Security](#)
- [Defense One](#)

NEWS

- [World Bank invests to combat water scarcity and food insecurity in Niger](#)
Smart Water Magazine, 5 October 2021
- [Breakthrough Research Makes Recycling Lithium-Ion Batteries More Economical](#)
SciTechDaily, 4 October 2021
- [Confront climate change to stop military being diverted to natural disasters, former ADF chief warns](#)
The Guardian, 4 October 2021
- [Migration will soon be the biggest climate challenge of our time](#)

Financial Times, 3 October 2021

- [Climate Change and “A New Normal of Extremes”](#)
The National Academies of Sciences, Engineering and Medicine, 1 October 2021
- [Permafrost thaw puts Russia’s Arctic ambitions at risk](#)
Planetary Security Initiative, 27 September 2021
- [Joint Statement on Australia-U.S. Ministerial Consultations](#)
Department of State, 16 September 2021
- [Space, Climate and Comprehensive Defense Options Below the Threshold of War](#)
Divergent Options, 13 September 2021

EVENTS

- [Alliances for Climate Action: 6th Annual Forum](#)
13 -27 October 2021 / Resilient Nation Partnership Network, FEMA and NASA
- [The Weather-Climate Gap: Perspectives on Hazards, Risk and Vulnerability](#)
13 October 2021 / Hosted by The National Academies
- [Environmental and Energy Study Institute](#) Briefings leading up to COP 26
15 – 22 October 2021
- [Communities, Climate Change, and Health Equity – A New Vision](#)
12 – 14 October 2021 / Hosted by the National Academies
- [Climate Leadership Conference](#)
13-15 October 2021 / Center for Climate & Energy Solutions and The Climate Registry
- [2021 Regional Conference on Permafrost & 19th International Conference on Cold Regions Engineering](#)
24-29 Oct 2021 / US Permafrost Ass’n and the American Society of Civil Engineers
- **[new/CSN Event]** [Offshore Wind Farms and the Morro Bay Project](#)
26 October 2021 / Noon – 1 PT / Hosted by CSN
- NOAA Emerging Technologies Workshop
25-28 October 2021 / For information: etw.logistics@noaa.gov.
- DoD Arctic S&T Workshop
16-18 November 2021 / For information: Dawn.E.Hathaway@usace.army.mil.

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Paper:** [Flood Adaptation: The Need to Consider Residual Risk](#)
Nature Climate Change, September 2021
**by CSN Member Dr. Dan Eisenberg, Research Assistant Professor of Operations Research, Naval Postgraduate School*
- **Paper:** [Plummeting costs of renewables - Are energy scenarios lagging?](#)
Energy Strategy Reviews, May 2021
- **Paper:** [Empirically grounded technology forecasts and the energy transition](#)
INET Oxford Working Paper, September 2021
- **Report:** [Ecological Threat Report 2021: Understanding Ecological Threats, Resilience and Peace](#)
Institute for Economics and Peace, October 2021
- **Report Series:** [Climate-related peace and security risks](#)
Stockholm International Peace Research Institute

OPPORTUNITIES

- **[new]** [Call for Papers: Security Studies issue on Climate Change and Security](#)
Submissions due 1 March 2022
- [DARPA Opportunity: AI-Assisted Climate Tipping-point Modeling \(ACTM\)](#)
Proposals due 14 October 2021
- [Positions available at the American Security Project](#)
 - Fellow / Senior Fellow for Climate Security
 - Veterans Climate Security Fellowship

Dear CSN Members,

Below are climate and security updates for this week.

One important document I want to highlight is the [SECNAV Strategic Guidance](#) which includes climate change as a priority, noting that “*We will develop a climate-cognizant force that considers climate elements through all aspects of training and equipping the force and planning and executing the mission.*”

Also, I want to send a shout-out to **Frank Chezem** who produces our event flyers and **Jake Wigal** who designed our website and keeps it updated for us. Their work behind the scenes helps the CSN have an excellent digital presence. Thank you both!!

Have a good weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 15 October 2021

NEWS

- [Secretary Haaland Outlines Ambitious Offshore Wind Leasing Strategy](#)
Department of the Interior Press Release, 13 October 2021
- [DOE commits \\$20M to create green hydrogen from nuclear power with Palo Verde project](#)
Utility Dive, 12 October 2021
- [Make electric vehicles lighter to maximize climate and security benefits](#)
Nature, 12 October 2021
- [NOAA upgrades climate website amid growing demand for climate information](#)
NOAA Press Release, 12 October 2021
- [Energy from bogs: Estonian Scientists use peat to make batteries](#)
Reuters, 11 October 2021

- [One-fourth of U.S. infrastructure is at risk of floods. These 4 states are in the most peril.](#)
USA Today, 11 October 2021
- [Is the tide turning on renewable marine power? Entrepreneurs test wave-powered energy systems](#)
GeekWire, 10 October 2021
- [Orbiting Solar Farms not as Out-of-this-World as you think](#)
The Telegraph, 10 October 2021
- [Global energy storage set to nearly triple in 2021](#)
Utility Dive, 8 October 2021
- [There's a Toxic, California-Sized Algae Bed Creeping Into the Arctic](#)
Vice News, 7 October 2021
- [The Nobel Prize in Physics 2021: Hidden patterns in the Climate and in Other Complex Phenomena](#)
Press Release, 5 October 2021
- [Fully protecting the World's Land, Water and People through 30 by 30](#)
New Security Beat, 4 October 2021
- [Housing in Alaska can't survive climate change. This group is trying a new model.](#)
Washington Post, 24 September 2021

EVENTS

- [Alliances for Climate Action: 6th Annual Forum](#)
13 -27 October 2021 / Resilient Nation Partnership Network, FEMA and NASA
- [Environmental and Energy Study Institute](#) Briefings leading up to COP 26
20 – 22 October 2021
- [2021 Regional Conference on Permafrost & 19th International Conference on Cold Regions Engineering](#)
24-29 Oct 2021 / US Permafrost Ass'n and the American Society of Civil Engineers
- **[CSN Event]** [Offshore Wind Farms and the Morro Bay Project](#)
26 October 2021 / Noon – 1 PT / Hosted by CSN

- **NOAA Emerging Technologies Workshop**
25-28 October 2021 / For information: etw.logistics@noaa.gov.
- **DoD Arctic S&T Workshop**
16-18 November 2021 / For information: Dawn.E.Hathaway@usace.army.mil.

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Book: [Accelerating Decarbonization of the U.S. Energy System](#)**
National Academy of Sciences, Engineering and Medi
- **Post: [Analysis: Which countries are historically responsible for climate change?](#)**
Carbon Brief, 4 October 2021
- **Report: [Global Climate Report – September 2021](#)**
National Centers for Environmental Information
- **Report: [The Future of California’s Water-Energy-Climate Nexus](#)**
Pacific Institute, September 2021
- **Report: [Ten Strategies for Climate Resilience in the Colorado River Basin](#)**
Martin & McCoy, July 2021
- **Report: [A Healthy Future – tackling climate change mitigation and human health together](#)**
The Royal Society, September 2021
- **Advisory: [Ongoing Cyber Threats to U.S. Water and Wastewater Systems](#)**
Joint Cybersecurity Advisory, 14 October 2021
- **New Webpage: 14 Weather Squadron Adds China Interest Area Page (DoD CAC access only):** The intent of Interest Area pages is to provide access to all climate and climatology related information available on the 14 WS webpages in a single location.
These products can be found on the Climate portal links under the INDOPACOM tab:
<https://climate.af.mil/cmap/> and <https://climate.af.smil.mil/cmap/>
- **Post: [Major Developments for Global Climate Litigation](#)**
Sabin Center for Climate Change Law, 12 October 2021

- **Report: [Fiscal Policy and Climate Change: Recent Experiences of Finance Ministries in Latin America and the Caribbean](#)**
Inter-American Development Bank, 2021
- **Podcast: [Climate, Crisis and Conflict](#)** (documentary)
Apple Podcasts
- **Posts: 2-Part Cost-Benefit Analysis**
Yale Climate Connections, 14-15 October 2021
 - [Part 1: Is cost-benefit analysis the right tool for federal climate policy?](#)
 - [Part 2: Obstacles Biden could face in changing approach to climate cost-benefit analysis](#)

OPPORTUNITIES

- **[Call for Papers: Security Studies issue on Climate Change and Security](#)**
Submissions due 1 March 2022

Dear CSN Members,

Below are climate and security updates for this week. There's a lot in the news these days, a lot of events and resources which is fantastic! And, to honor the requests that this weekly email not get unwieldy, I've been selective in this week's list and tried to hit the highpoints while offering a diverse selection of topics. Big thanks to those who have sent in contributions, whether included here or not.

As a reminder, we have our Wind Energy speaker next week:

[Offshore Wind Farms and the Morro Bay Project](#)

26 October 2021 / Noon – 1 PT

And, **going from local to global, we'll announce our COP26 panel soon which is planned for the week of November 15.** Happy reading & have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 22 October 2021

NEWS

- **[A Quartet of Warnings Highlight Climate-Related Threats](#)**
Defense One, 21 October 2021
- **[Climate Change Poses a Widening Threat to National Security](#)**
New York Times, 21 October 2021
- **[To secure the energy supply chain, feds want to reimagine the power sector as defense](#)**
Utility Dive, 21 October 2021
- **[‘It was just wild’: Guardsmen fight Fires from the Sky](#)**
DoD News, 20 October 2021
- **[Sustainable Responses to Human Mobility, Climate Change and Conflict](#)**
New Security Beat, 19 October 2021
- **[Climate Change in East Asia, the Pacific Impacts DOD](#)**
DoD News, 19 October 2021
- **[All Systems Go: Integrating Climate Security Across the U.S. Government](#)**
New Security Beat, 18 October 2021 [article includes webinar link]
- **[FERC weighs grid plan that could revolutionize clean energy](#)**

E&E News – Energy Wire, 15 October 2021

- [**The Most Important Global Meeting You’ve Probably Never Heard of is Now**](#)
New York Times, 14 October 2021
- [**Plug-in cars are the future. The grid isn’t ready.**](#)
Washington Post, 13 October 2021
- [**Army grapples with ‘very serious’ climate change threat**](#)
Association of the United States Army, 13 October 2021
- [**Raging Flood Waters Driven by Climate Change Threaten the Trans-Alaska Pipeline**](#)
Inside Climate News, 12 October 2021
- [**WHO’s 10 calls for climate action to assure sustained recovery from COVID-19**](#)
World Health Organization, 11 October 2021
- [**Restoring Utah National Monument Boundaries Highlights a New Tactic in the Biden Administration’s Climate Strategy**](#)
Inside Climate News, 9 October 2021

EVENTS

- [**Alliances for Climate Action: 6th Annual Forum**](#)
13 -27 October 2021 / Resilient Nation Partnership Network, FEMA and NASA
- **DoD Arctic S&T Workshop**
16-18 November 2021 / For information: Dawn.E.Hathaway@usace.army.mil.

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [**Report on the Impact of Climate Change on Migration**](#)
White House, October 2021
- **Article:** [**Greater than 99% consensus on human caused climate change in the peer-reviewed scientific literature**](#)
Environmental Research Letters, 19 October 2021
- **Report:** [**Put Gas on Standby**](#)
Carbon Tracker, 19 October 2021
- **Report:** [**The Production Gap**](#)
Stockholm Environment Institute, October 2021

- **Podcast:** [To a Lesser Degree](#)
The Economist, 18 October 2021
- **Video:** [New Climate War](#)
University of Hawaii/Interview with author Michael E. Mann, 15 October 2021
- **Book:** [Electrify](#)
Saul Griffith (CSN Speaker from September 2021)
- **Report:** [Climate Security Fellows Report 2021](#)
Center for Climate & Security, October 2021
- **Report:** [Policy Brief for the United States of America](#)
The Lancet Countdown on Health and Climate Change, October 2021

Dear CSN Members,

With COP26 beginning this weekend, there is a special resource section to kick off this week's update. Next week, we'll announce the details for our COP26 panel.

If you have items you think would be of interest for the network, please send them along to me.

Have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 29 October 2021

Special Section: COP26

Resources:

- [COP26 US Page](#) (State Dept)
- [CO26 Schedule](#)
- [G20 Climate Risk Atlas](#) (CMCC)

Perspectives:

- The Economist: [Why the COP26 climate summit will be both crucial and disappointing](#)
- Climate One: [What's on tap at COP26 in Glasgow](#)
- Reuters: Breakdown: [COP26 gets an ambitions downgrade](#)
- EESI: [Setting the Stage for the COP26 Climate Talks in Glasgow](#)
- NY Times: [It's Time for COP26. Here's Where We Stand.](#)
- Forbes: [COP26: Why the UN Climate Conference Matters Like Never Before](#)
- Defense One: [Pentagon to Skip Global Climate Conference, Despite 'Existential Threat'](#)
- National Academies: ['We Can't Wait Any Longer' - As COP26 Approaches, NAS President Marcia McNutt Discusses Science and Solutions to Climate Change](#)

NEWS

- [Sophisticated hackers could crash the US power grid but money, not sabotage, is their focus](#)
Utility Dive, 28 October 2021
- [DOE Announces \\$209 Million for Electric Vehicles Battery Research](#)
Department of Energy News, 27 October 2021

- [Climate change is a risk to national security, the Pentagon says](#)
NPR Interview with Deputy Secretary of Defense Kathleen Hicks, 26 October 2021
- [The Pentagon has to include climate risk in all of its plans and budgets](#)
Defense News, 26 October 2021
- [Natural Disasters can set the Stage for Cyberattacks](#)
Pew Stateline, 25 October 2021
- [Scientists Protect Turtles in Hawaii](#)
Marine Corps Release, 25 October 2021
- [Nellis AFB reduces greenhouse gas emission through solar energy](#)
Air Force Release, 24 October 2021
- [US Warns Climate Poses ‘Emerging Threat’ to Financial System](#)
NY Times, 21 October 2021
- [Financial Stability Oversight Council Identifies Climate Change as an Emerging and Increasing Threat to Financial Stability](#)
US Department of the Treasury Release, 21 October 2021
- [Eielson AFB Announced as Site for Air Force Micro-Reactor Pilot](#)
Air Force Release, 15 October 2021

EVENTS

- **DoD Arctic S&T Workshop**
16-18 November 2021 / For information: Dawn.E.Hathaway@usace.army.mil.
- [White House Environmental Justice Advisory Council Public Virtual Meeting](#)
17-18 November 2021
- [Recap of COP26: Key Outcomes and What Comes Next](#)
18 November 2021 / 1030 – 1200 ET / 0730 – 0900 PT
Environmental and Energy Study Institute

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [The Nexus of Climate Change, Ecological Disruption, Stability and Security](#)
Center for Climate and Security, 28 October 2021
- **Report:** [RSOC Report on Climate-Related Financial Risk 2021](#)
Financial Stability Oversight Council, October 2021

- **Report: [State of Climate Action 2021](#)**
World Resources Institute, October 2021
- **Tool: [Taking the Temperature: An Energy and Climate Tracker](#)**
Morning Consult
- **Report: [FEMA Flood Maps: Better Planning and Analysis Needed to Address Current and Future Flood Hazards](#)**
General Accountability Office, October 2021
- **Report: [Emissions Gap Report 2021](#)**
UNEP, 26 October 2021
- **Video: [The Weather-Climate Gap: Perspectives on Hazards, Risk and Vulnerability \(With a Twist\)](#)**
National Academies of Sciences, Engineering, and Medicine, from 13 October 2021
- **Article: [Using the three-pillar model of sustainability to understand lay reactions to climate policy: a multilevel approach](#)**
Environmental Science and Policy, 2021
- **Article: [Policy attributes, perceived impacts and climate change policy preferences](#)**
Journal of Environmental Psychology, October 2021

Dear CSN Members,

Below are this week's updates on the climate and security front. Please note the next CSN Speaker Series event:

COP26: Making Sense of Glasgow

17 November 2021

1200-1330 PT

Speaker details/Virtual meeting link to be sent next week

There's also a special section on COP26 analysis below.

Have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 5 November 2021

Special Section: Analysis on [COP26](#)

- Atlantic Council: [Atlantic Council Live from COP26](#)
- International Energy Agency: [COP26 and Climate Pledges](#)
- NY Times: [Key moments from COP 26](#)
- Politico: [COP26 Global Coverage](#)

NEWS

- [Can updated climate pledges limit warming well below 2°C?](#)
Science, 5 November 2021
- [DoD Efforts Showcased in Climate Adaptation Companion Document](#)
DoD News, 4 November 2021
- [As Warming and Drought Increase, a New Case for Ending Big Dams](#)
Yale Environment 360, 4 November 2021
- [Republican press Milley over perceived progressive military agenda](#)
The Hill, 4 November 2021
- [Climate change poses great risk for Florida's military bases](#)
Military Times, 3 November 2021

- [National Security and the Climate Front Lines](#)
The Hill, 3 November 2021
- [Bidens' climate plan aims to reduce methane emissions](#)
AP News, 2 November 2021
- [Armies must keep pace with global climate efforts](#)
Reuters, 2 November 2021
- [USAID announces Robust Targets to advance President Biden's PREPARE Climate Initiative](#)
USAID Release, 1 November 2021
- [The US can't compete with China without tackling climate change](#)
Defense One, 1 November 2021
- [Top climate scientists are skeptical that nations will rein in global warming](#)
Nature, 1 November 2021
- [It's a game changer: Waging war on climate change from space](#)
Politico, 31 October 2021
- [Sustainable, Plant-Based Jet Fuel Could Reduce Emissions by 68%](#)
Sci Tech Daily, 30 October 2021
- [DoD supports Administration's Climate Change Ambitions](#)
DoD News, 29 October 2021
- [Pentagon will add climate policy czar](#)
Defense One, 29 October 2021
- [The Biden-Harris Administration Releases a \(Nearly\) Whole-of-Government Response to Climate Security](#)
New Security Beat, 29 October 2021
- [The ripple factor: Economic losses from weather extremes can amplify each other across the world](#)
Science Daily, 27 October 2021

EVENTS

- [Taking Stock of COP26](#)
15 November 2021 / 9:00 am PT
Climate One

- **DoD Arctic S&T Workshop**
16-18 November 2021 / For information: Dawn.E.Hathaway@usace.army.mil.
- **[White House Environmental Justice Advisory Council Public Virtual Meeting](#)**
17-18 November 2021
- **[Sustainability Week Insight Hour: Beyond COP26: Delivering a just transition through collective action](#)**
18 November 2021 / 10am ET / 7 am PT
The Economist
- **[Recap of COP26: Key Outcomes and What Comes Next](#)**
18 November 2021 / 1030 – 1200 ET / 0730 – 0900 PT
Environmental and Energy Study Institute
- **[Paving the Way toward Carbon-Neutral Concrete](#)**
29 November 2021 / 2 – 3:30 ET / 11 – 12:30 PT
National Academies Transportation Research Board

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report: [US Climate Change Policy](#)**
Congressional Research Service, 28 October 2021
- **Report: [Long-Term Strategy of the United States: Pathways to Net Zero Greenhouse Gas Emissions by 2050](#)**
White House & US Department of State, November 2021
- **Report: [Adaptation and Resilience in ASEAN](#)**
UN Climate Change Conference
- **Website: [Getting to Net Zero by 2050](#)**
National Academies
- **Report: [Optimal Strategies for a cost-effective and reliable 100% renewable electric grid](#)**
Journal of Renewable and Sustainable Energy, 2 November 2021
- **Blog Post: [Four Important Points about EPA's Proposed Methane Emissions Controls for Oil and Natural Gas Facilities](#)**
Sabin Center for Climate Change Law, 2 November 2021

- **Report: [Managing Climate Risks: Facing up to Losses and Damages](#)**
OECD, 1 November 2021
- **Report: [10 New Insights in Climate Science 2021](#)**
Future Earth, The Earth League and WCRP

OPPORTUNITIES

- **[USAID Climate Strategy Out for Public Comment](#)**
Comments due 24 November 2021
- **[USGCRP Listening Sessions](#)**
9, 15, 18 November 2021 and 6, 8 December 2021
Committee to Advise the US Global Change Research Program (USGCRP)
Topics are Water, Health, Energy, Food, and Transportation/Infrastructure

Dear CSN Members,

Below are this week's updates on the climate and security front. Please note the next CSN Speaker Series event next week:

COP26: Making Sense of Glasgow

17 November 2021

1200-1330 PT

Zoom link: <https://nps-edu.zoomgov.com/j/1602138196>

Passcode: 6!MDw\$0bSH

Hope to see you there! Have a good weekend,

Kristen

NPS Climate & Security Network Weekly Update: 12 November 2021

Special Section: Commentary on [COP26](#)

- [Week One at COP26: Developments and Takeaways](#)
Sabin Center for Climate Change Law, Columbia Law School, 9 November 2021
- [We Need a Global Treaty for Climate](#)
Yes! Magazine, 9 November 2021
- [COP26: Military pollution is the skeleton in the West's climate closet](#)
Middle East Eye, 8 November 2021
- [COP26 Exposes Rich Countries' Debt Hypocrisy](#)
Tribune, 5 November 2021
- [Climate Change is highlighted as a security issue as NATO leader visits COP26](#)
Washington Post, 2 November 2021
- [Glasgow Climate Talks are, in Many Ways, 'Harder than Paris'](#)
Inside Climate News, 1 November 2021
- [The Developing World Needs Energy – and Lots of It](#)
Foreign Policy, 29 October 2021

NEWS

- [GM is building a prototype for the US military based on the Hummer EV](#)
The Verge, 11 November 2021
- [Automotive Industry Innovations Can Help Combat Climate Crisis, Hicks Says](#)
DOD News, 9 November 2021

- [Between China or Climate: DOD Tackling Both](#)
DoD News, 5 November 2021
- [NOAA, ASCE partner to advance climate-smart construction](#)
Stormwater, 5 November 2021
- [A Nuclear-Powered Shower? Russia Tests a Climate Innovation](#)
NY Times, 5 November 2021
- [Housing thwacked by rare Mediterranean hurricane at Naval Air Station Sigonella](#)
Navy Times, 5 November 2021
- [Drone at Pennsylvania electric substation was first to ‘specifically target energy infrastructure,’ according to federal law enforcement](#)
CNN, 4 November 2021
- [U.S. Launches Net-Zero World Initiative to Accelerate Global Energy System Decarbonization](#)
Department of Energy Release, 3 November 2021
- [China’s Climate Goals Hinge on a \\$440 Billion Nuclear Buildout](#)
Bloomberg, 2 November 2021
- [By 2050, 200 Million Climate Refugees May Have Fled Their Homes. But International Laws Offer Them Little Protection](#)
Inside Climate News, 2 November 2021

EVENTS

- **[NEW]** [Taking Stock of COP26](#)
15 November 2021 / 9:00 am PT
Climate One
- **[NEW]** [From Analysis to Action: Integrating Climate Security into the National Security and National Defense Strategies](#)
17 November 2021 / 1:30-3:00 pm ET / 10:30 am – Noon PT
Center for Climate and Security and Converging Risks Lab, US Institute of Peace
- [White House Environmental Justice Advisory Council Public Virtual Meeting](#)
17-18 November 2021
- [Sustainability Week Insight Hour: Beyond COP26: Delivering a just transition through collective action](#)
18 November 2021 / 10am ET / 7 am PT
The Economist
- [Recap of COP26: Key Outcomes and What Comes Next](#)
18 November 2021 / 1030 – 1200 ET / 0730 – 0900 PT

Environmental and Energy Study Institute

- **[NEW]** [Science on the Hill: Climate, Jobs and the Economy](#)
19 November 2021 / 1:00 ET / 10:00 PT
National Academies
- [Paving the Way toward Carbon-Neutral Concrete](#)
29 November 2021 / 2 – 3:30 ET / 11 – 12:30 PT
National Academies Transportation Research Board
- **[NEW]** [SERDP / ESTCP Symposium](#)
29 November – 3 December 2021
Presented by Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP)
- **[NEW]** [Salute to Service: The Role of Veterans in the Energy Transition](#)
30 November 2021 / 10 – 11 am ET
Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Monthly Update:** [Assessing the U.S. Climate in October 2021](#)
NOAA National Centers for Environmental Information, November 2021
- **Podcast:** [Climate Change – The Biggest US Security Threat?](#)
Council on Global Affairs
- **Report:** [Strategies and Actions for Achieving a 50% Reduction in U.S. Greenhouse Gas Emissions by 2030](#)
Electric Power Research Institute, November 2021
- **Report:** [Renewables on the Rise 2021](#)
Environment America and Frontier Group, 2021
- **Strategy:** [NGA Strategy 2025](#)
National Geospatial-Intelligence Agency, November 2021
- **Website:** [The Military Emissions Gap](#)
Conflict and Environment Observatory, 2021

OPPORTUNITIES

- **[NEW] Course:** [Climate Change in Arctic Environments](#)
Alaska X, through University of Alaska Fairbanks, opens 11 November 2021
- **[NEW]** [SERDP Funding Announcement](#)
DoD's Strategic Environmental Research and Development Program (SERDP) is seeking to fund environmental research and development in the Resource Conservation and Resiliency program area. All pre-proposals are due to SERDP January 6, 2022 by 2:00 p.m. ET.

- [USAID Climate Strategy Out for Public Comment](#)
Comments due 24 November 2021
- [USGCRP Listening Sessions](#)
15, 18 November 2021 and 6, 8 December 2021
Committee to Advise the US Global Change Research Program (USGCRP)
Topics are Health, Energy, Food, and Transportation/Infrastructure

Dear CSN Members,

Below are this week's updates on the climate and security front.

Many thanks to our speakers, Jenn DeCesaro and Erin Sikorsky and, from NPS, Tom Murphree and Nick Dew for participating in this week's COP26 panel.

We have recently added an upcoming NPS briefing by a Capstone team. Please add to your calendar:

NPS Net-Zero Project: Capstone Briefing
Cost-Based Analysis of Surface Warship Lithium-Ion Battery Conversion
Presented by: LT Chris Masters, LCDR Evan Bloxham, LT Ashraful Haque
1 December 2021 / 1200-1300 PT / Virtual via Teams
Registration required; RSVP to kristen.fletcher@nps.edu

We'll take a break next week with the weekly update and be back after the holiday. Happy Thanksgiving to all!

Kristen

NPS Climate & Security Network Weekly Update: 19 November 2021

NEWS

- [Climate-Forward Diplomacy, Development, and Defense at the Pacific Futures Forum](#)
Center for Climate & Security, 19 November 2021
- [Researchers anticipate, help prevent national security consequences of climate crises](#)
Phys.org, 18 November 2021
- [Synthetic fuel flight signals start of UK military's push to cut emissions](#)
California News Times, 17 November 2021
- [Build Back Better's Big Challenge: Human Behavior](#)
Scientific American, 16 November 2021
- [U.S., Norwegian Defense Leaders Discuss High North Strategy, Dealing with Russia](#)
DOD News, 16 November 2021
- [Pentagon's first climate challenge: How to follow the money](#)

Breaking Defense, 16 November 2021

- [**COP26: Key outcomes agreed at the UN climate talks in Glasgow**](#)
Carbon Brief, 15 November 2021
- [**It's Time to Be Honest About Fossil Fuels' Role in Energy Transition**](#)
Foreign Policy, 15 November 2021
- [**The fight for Climate after COVID-19: A Conversation with Sherri Goodman and Author Alice Hill**](#)
New Security Beat, 12 November 2021
- [**Nuclear War and Climate Change: The Urgency for Action**](#)
Center for Climate & Security, 12 November 2021
- [**World's 'calamitous' water crisis being ignored in climate talks – WaterAid**](#)
The Guardian, 10 November 2021
- [**How the world's militaries hide their huge carbon emissions**](#)
The Conversation, 9 November 2021

EVENTS

- [**What the Infrastructure Deal Means for Climate**](#)
22 November 2021 / 9:00 am PT
Carbon One
- [**Paving the Way toward Carbon-Neutral Concrete**](#)
29 November 2021 / 2 – 3:30 ET / 11 – 12:30 PT
National Academies Transportation Research Board
- [**SERDP / ESTCP Symposium**](#)
29 November – 3 December 2021
Presented by Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP).
- [**Salute to Service: The Role of Veterans in the Energy Transition**](#)
30 November 2021 / 10 – 11 am ET
Atlantic Council
- **[NEW/CSN EVENT] NPS Net-Zero Project: Capstone Briefing
Cost-Based Analysis of Surface Warship Lithium-Ion Battery Conversion**
1 December 2021 / 1200-1300 PT / Virtual via Teams

RSVP to kristen.fletcher@nps.edu

- **[Federal Innovation Summit: Building a Culture for Innovation](#)**
19-20 January 2022 / Virtual
Partnership for Public Service
- **[Innovations in Climate Resilience Conference](#)**
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Webinar Video: [COP26 and Beyond](#)**
Center for Strategic & International Studies, 18 November 2021
- **Fact Sheet: [Ted Stevens Center for Arctic Security Studies](#)**
DOD Release, 17 November 2021
- **Hearing Video: [National Security Implications of Climate Change in the Arctic](#)**
House Foreign Affairs Committee, 16 November 2021
- **Strategy: [National Recycling Strategy](#)**
Environmental Protection Agency, 15 November 2021
- **Report: [Climate Change, Slow-Onset Disasters, and the Federal Emergency Management Agency](#)**
Congressional Research Service, 12 November 2021
- **Article: [Anticipating sea-level rise and human migration: A review of empirical evidence and avenues for future research](#)**
Wiley Interdisciplinary Reviews, 12 November 2021
- **Webinar Video: [Climate Security After the COP: Next Steps for the United States](#)**
The Wilson Center, 12 November 2021
- **Report: [The Role of Minerals in Realizing US Transportation Electrification Goals](#)**
Atlantic Council, November 2021
- **Report: [Cities Climate Law: A Legal Framework for Local Action in the U.S.](#)**
Sabin Center for Climate Change Law, November 2021
- **Report: [Net-Zero America: Potential Pathways, Infrastructure and Impacts](#)**
Princeton University, 29 October 2021

OPPORTUNITIES

- **[\[NEW\] USGS Seeks Public Comment on Draft List of 50 Minerals Deemed Critical to US National Security and the Economy](#)**
Comments due 9 December 2021
- **Course: [Climate Change in Arctic Environments](#)**
Alaska X, through University of Alaska Fairbanks
- **[USAID Climate Strategy Out for Public Comment](#)**
Comments due 24 November 2021
- **[USGCRP Listening Sessions](#)**
6, 8 December 2021
Committee to Advise the US Global Change Research Program (USGCRP)
Topics are Food, and Transportation/Infrastructure
- **[SERDP Funding Announcement](#)**
Pre-proposals due 6 January 2022

Dear CSN Members,

I hope everyone had a nice Thanksgiving holiday. Welcome back to the weekly members update.

I'm pleased to share that Dr. David Alderson, Professor in the Department of Operations Research and a member of the CSN Planning Team, has been awarded the 2021 Richard W. Hamming Teaching Award in recognition of his exceptional teaching at NPS. Congratulations, Dave!

Below are this week's updates on the climate and security front. Thanks to everyone who sends in contributions!

Kristen

NPS Climate & Security Network Weekly Update: 3 December 2021

NEWS

- [Navigating the Arctic's 7Cs](#)
New Security Beat, 3 December 2021
- [US to add 200 GW of renewable capacity by 2026, but IEA wrans 30 GW offshore target 'challenging'](#)
Utility Dive, 1 Dec 2021
- [Europe's Energy Security Problem Leaves it in the Cold](#)
War on the Rocks, 30 November 2021
- [The world's largest military isn't reporting its giant 'carbon footprint'](#)
Popular Science, 29 November 2021
- [Army plans to turn on first hybrid electric Bradley in January](#)
Breaking Defense, 29 November 2021
- [The Biden Administration's Whole of Government Approach to Climate Security](#)
The Center for Climate & Security, 29 November 2021
- [Iran Forcefully Clamps Down on Protests Against Growing Water Shortages](#)
NY Times, 26 November 2021
- [White House creates new energy division to help craft climate change policies](#)
The Washington Post, 24 November 2021

- [**The biggest problem facing the U.S. electric grid isn't demand. It's climate change**](#)
NPR, 24 November 2021
- [**Melting Arctic sea ice linked to 'worsening fire hazards' in western US**](#)
Carbon Brief, 24 November 2021
- [**DOE undoes Trump era hurdles to setting appliance efficiency standards, finalizes process rules updates**](#)
Utility Dive, 23 November 2021
- [**'It is entirely doable, and it is doable fast': Experts on how to navigate the energy transition**](#)
CNBC, 22 November 2021
- [**U.S. House Hearing on the National Security Implications of Climate Change in the Arctic**](#)
The Center for Climate & Security, 22 November 2021
- [**California needs to keep the Diablo Canyon nuclear plant open to meet its climate goals**](#)
LA Times, 21 November 2021
- [**Senior Pentagon official warns the US military is 'not ready' for climate change**](#)
CNN, 20 November 2021

EVENTS

- [**NGA Research Director's Seminar: Ellen Williams, Ph.D.**](#)
7 December 2021 / 1:30 – 2:30 ET / 10:30 – 11:30 PT / Virtual
Co-hosted by IC Environmental Security Working Group
- [**A Research Strategy for Ocean Carbon Dioxide Removal and Sequestration**](#)
8 December 2021 / 11 – 12 ET / 8 – 9 PT / Virtual
- [**American Geophysical Union Fall Meeting 2021**](#)
13 - 17 December 2021 / New Orleans, LA
- [**Arctic Research Plan 2022-2026 Launch Webinar**](#)
16 December 2021 / 2 – 3 ET / 11 – 12 PT / Virtual
- [**Federal Innovation Summit: Building a Culture for Innovation**](#)
19-20 January 2022 / Virtual
Partnership for Public Service

- [**American Meteorological Society 2022 Annual Meeting on Environmental Security**](#)
23 – 27 January 2022 / Houston, TX
- [**Innovations in Climate Resilience Conference**](#)
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Article:** [**Need Fuel? Marines Should Make Moonshine Hydrogen**](#)
U.S. Naval Institute, November 2021
- **Article:** [**Climate Change – Terrorism Nexus? A preliminary Review/Analysis of the Literature**](#)
Perspectives on Terrorism, February 2021
- **Report:** [**Life Cycle Assessment of Electricity Generation Options**](#)
UN Economic Commission for Europe, October 2021
- **Report:** [**U.S. Solar Photovoltaic System and Energy Storage Cost Benchmarks**](#)
NREL, November 2021
- **Post:** [**A New Climate Litigation Claim in Brazil Raises the Pressure for Increased Climate Action and Protection of the Amazon Rainforest**](#)
Sabin Center for Climate Change Law, 1 December 2021
- **Report:** [**Witness the Arctic**](#)
NSF Arctic Science Section, Fall 2021

OPPORTUNITIES

- [**USGS Seeks Public Comment on Draft List of 50 Minerals Deemed Critical to US National Security and the Economy**](#)
Comments due 9 December 2021
- [**USGCRP Listening Sessions**](#)
6, 8 December 2021
Committee to Advise the US Global Change Research Program (USGCRP)
Topics are Food, and Transportation/Infrastructure
- [**SERDP Funding Announcement**](#)
Pre-proposals due 6 January 2022

Dear CSN Members,

Our weekly update comes a day early this week – to share an Executive Order just issued on Wednesday and to highlight a unique event happening on Friday.

Thanks to those of you who joined the NIE Briefing on Wednesday and a special thanks to our speakers who shared their expertise and perspectives.

Take care,

Kristen

NPS Climate & Security Network Weekly Update: 10 December 2021

Special Section: Executive Order on Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability

Resources:

- [Executive Order](#)
- [White House Fact Sheet](#)
- [Statement by Secretary of Energy](#)

Perspectives:

- [NY Times: Biden Orders Federal Vehicles and Buildings to Use Renewable Energy by 2050](#)
- [CNBC: Biden to expand federal fleet of EVs in bid to make government carbon-neutral by 2050](#)
- [Renews: Biden signs Net Zero Executive Order](#)
- [Federal News Network: Biden sets zero-emission goals for federal buildings, vehicles in executive order](#)

NEWS

- [New National Defense Strategy to Be Released Early 2022](#)
Defense One, 8 December 2021
- [DHS Announces Deadline Extension for National Climate Resilience Prize Competition](#) DHS News Release, 7 December 2021
- [Implementing the Biden Administration's Climate Executive Order – The White House Report on Climate Change and Migration](#)
Center for Climate and Security, 6 December 2021

- [Ensuring resilient clean energy infrastructure](#)
Atlantic Council, 3 December 2021
- [The US biofuel mandate helps farmers, but does little for energy security and harms the environment](#), The Conversation, 2 December 2021
- [Department of the Navy and California's Energy Commission Partner on Energy & Water Initiatives](#), Navy Release, 2 December 2021
- [Natural disasters aren't as natural as they used to be](#)
Canada's National Observer, 30 November 2021
- [Climate tipping points: The Arctic is a bellweather for irreversible change](#)
The Hill, 26 November 2021

EVENTS

- [CIA's MEDEA Program: Repurposing National Security Data and Observations to Understanding Global Change](#)
[TOMORROW] 10 December 2021 / 1300 – 1500 ET / 1000 – 1200 PT
Virtual ([Register here](#))
- [American Geophysical Union Fall Meeting 2021](#)
13 - 17 December 2021 / New Orleans, LA
- [Arctic Research Plan 2022-2026 Launch Webinar](#)
16 December 2021 / 2 – 3 ET / 11 – 12 PT / Virtual
- [Federal Innovation Summit: Building a Culture for Innovation](#)
19-20 January 2022 / Virtual
Partnership for Public Service
- [American Meteorological Society 2022 Annual Meeting on Environmental Security](#)
23 – 27 January 2022 / Houston, TX
- [Innovations in Climate Resilience Conference](#)
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- [Article: Using Trusted Intermediaries to Communicate Environmental Issues Across Security Forces](#), Environmental Communication, 29 November 2021

- **Report:** [World Inequality Report](#)
United Nations Development Programme, December 2021.
- **Website:** [14th Weather Squadron Polar Focused Monitoring](#) (DoD CAC access only)
- **Article:** [Changing Impacts of Tropical Cyclones on East and Southeast Asian Inland Regions in the Past and Globally Warmed Future Climate](#)
Frontiers in Earth Science, 30 November 2021
- **Article:** [Build solar-energy systems to last – save billions](#)
Nature, 7 December 2021
- **Article:** [Green Upheaval: The New Geopolitics of Energy](#), Foreign Policy, January/February 2022

OPPORTUNITIES

- [SERDP Funding Announcement](#)
Pre-proposals due 6 January 2022
- [National Global Change Research Plan](#)
The U.S. Global Change Research Program (USGCRP), in collaboration with the White House Office of Science and Technology Policy, is seeking public comment on the prospectus for its National Global Change Research Plan (2022-2031). The opportunity to provide comment runs through January 11, 2022. This is an Open Call. All comments must be input via the [USGCRP's Review and Comment System](#) by 11:59 p.m. ET, on January 11, 2022 for consideration.
- [Fifth National Climate Assessment](#)
In January and February, USGCRP and National Climate Assessment authors will host a series of workshops to solicit feedback on climate change-related issues. The information gathered will help the authors determine topics to cover in their chapters of the Fifth National Climate Assessment.

Dear CSN Members,

Below are updates from the last week in the climate and security world. Thanks for those who share postings! Have a good weekend,
Kristen

NPS Climate & Security Network Weekly Update: 17 December 2021

NEWS

- [**Food and Water Security Solutions: Reflections on Mitigating Climate-Induced Population Displacement in Africa**](#)
New Security Beat, 16 December 2021
- [**New ocean floats to boost global network essential for weather, climate research**](#)
NOAA, 15 December 2021
- [**‘Colossal waste’: Nobel laureates call for 2% cut to military spending worldwide**](#)
The Guardian, 14 December 2021
- [**Conflict and Climate drive water crisis in Syria**](#)
DW, 13 December 2021
- [**Russia vetoes UN Resolution highlighting climate change as security threat**](#)
The Hill, 13 December 2021
- [**The Biden-Harris Electric Vehicle Charging Action Plan**](#)
White House Fact Sheet, 13 December 2021
- [**President Biden’s pen is not enough to fight climate change; Congress must act**](#)
The Washington Post, 13 December 2021
- [**What, if anything, is climate change doing to tornadoes?**](#)
The Economist, 13 December 2021
- [**December tornadoes are part of ‘new normal’ caused by climate change, FEMA chief says**](#)
The Washington Post, 13 December 2021
- [**British troops must train to fight in Arctic over Russian threat, says Ben Wallace**](#)
The Times, 10 December 2021

- [**UN Chief: Climate change aggravates conflict and terrorism**](#)
AP News, 10 December 2021
- [**FEMA Releases New Strategic Plan**](#)
FEMA Release, 9 December 2021
- [**Are Microgrids a Key to Grid Resiliency?**](#)
Pacific Northwest National Laboratory, 2 December 2021

EVENTS

- [**Federal Innovation Summit: Building a Culture for Innovation**](#)
19-20 January 2022 / Virtual
Partnership for Public Service
- [**American Meteorological Society 2022 Annual Meeting on Environmental Security**](#)
23 – 27 January 2022 / Houston, TX
- **[New]** [**Climate Risk North America 2022**](#)
15-17 February 2022 / Virtual
The Economist
- [**Innovations in Climate Resilience Conference**](#)
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Resource:** [**FEMA Resources for Climate Resilience**](#)
Federal Emergency Management Agency, December 2021
- **Statement:** [**Decision No. 3/21 – Strengthening Co-operation to Address the Challenges Caused by Climate Change**](#)
Organization for Security and Co-operation in Europe, 3 December 2021
- **Report:** [**NOAA National Climate Report: November 2021**](#)
NOAA National Centers for Environmental Information, December 2021
- **Working Paper:** [**Assessing Physical Climate Risks for the European Bank for Reconstruction and Development’s Power Generation Project Investment Portfolio**](#)
World Resources Institute, 2021
- **Post:** [**Looking to 2022: Next Steps for US Climate Security Policy**](#)
Center for Climate & Security, 16 December 2021

- **Post: [Climate Change and Ecological Security Must Be at the Center of Our National Defense Strategy](#)**
Center for Climate & Security, 15 December 2021
- **Post: [Arctic Report Card: Update for 2021](#)**
NOAA Arctic Program, December 2021
- **Report: [A Research Strategy for Ocean-based Carbon Dioxide Removal and Sequestration](#)**
National Academies Press, December 2021
- **Report: [The Cycle of Risk: Impact of Climate Change on Security Challenges in the Caribbean](#)**
Florida International University, November 2021

OPPORTUNITIES

- **[SERDP Funding Announcement](#)**
Pre-proposals due 6 January 2022
- **[National Global Change Research Plan](#)**
The U.S. Global Change Research Program (USGCRP) is seeking public comment on the prospectus for its National Global Change Research Plan (2022-2031). All comments must be input via the [USGCRP's Review and Comment System](#) by 11:59 p.m. ET, on January 11, 2022 for consideration.
- **[Fifth National Climate Assessment](#)**
In January and February, USGCRP and National Climate Assessment authors will host a series of workshops to solicit feedback on climate change-related issues. The information gathered will help the authors determine topics to cover in their chapters of the Fifth National Climate Assessment.
- **Proposed Rule Comment Period Open: [Federal Acquisition Regulation: Minimizing the Risk of Climate Change in Federal Acquisitions](#)**
DOD, GSA, NASA, 7 December 2021
- **[New] Call for Article Submissions: [International Journal of Climate Change: Impacts and Responses](#)**

Dear CSN Members,

Below are updates from the last week in the climate and security world, including a special section on some "year in review" resources.

I'm pleased to share we have the 2nd Combined Naval Address on Climate, Energy & Environment on 2 February. The event is open to NPS faculty, students, staff and alumni. We will share a video with the entire CSN membership following the event.

- **Combined Naval Address on Climate, Energy & Environment featuring Dr. Marshall Shepherd**
2 February 2022 / 0930 – 1030 PT
Virtual / Registration info coming in January

Also, **Erin Sikorsky**, Director of the Center for Climate and Security, was recently featured on **CNN International**. [You can view her interview here.](#) We were fortunate to have Erin join the CSN event on COP26 in November.

Wishing a happy holiday to all,

Kristen

NPS Climate & Security Network Weekly Update: 23 December 2021

Special Section: The Climate & Security Year in Review

- [Looking to 2022: Next Steps for US Climate Security Policy](#)
Center for Climate and Security, 16 December 2021
- From Environmental and Energy Study Institute:
 - [On the Hill in 2021: A Breakdown of Climate, Environmental and Energy Congressional Hearings](#)
 - [Solutions from Your District: Local and State Climate Action in 2021](#)
 - [Climate Conversation Podcast: 2021 Year in Review](#)
- [A Look Back at Significant Decisions in Climate Litigation in 2021](#)
Sabin Center for Climate Change Law, 23 December 2021
- [Podcast: This Year in Climate](#)
Climate One, December 2021

NEWS

- [Military exempt from Biden order to cut federal emissions](#)
E&E News, 22 December 2021

- [What the new defense spending bill could mean for the Arctic](#)
Arctic Today, 20 December 2021
- [A smarter approach to hydropower in the race to net-zero](#)
Asia Times, 17 December 2021
- [Is it Time to “Climatize” the UN Security Council?](#)
Center for Climate & Security, 17 December 2021
- [Climate Change means it’s time for a global security rethink](#)
Thomson Reuters Foundation News, 16 December 2021
- [DOE and DOT Launch Joint Effort to Build Out Nationwide Electric Vehicle Charging Network](#)
DOE Release, 14 December 2021
- [Green Upheaval: The New Geopolitics of Energy](#)
Foreign Affairs, January/February 2022

EVENTS

- [Federal Innovation Summit: Building a Culture for Innovation](#)
19-20 January 2022 / Virtual
Partnership for Public Service
- **[New]** [Climate Conversations: Ocean Carbon Dioxide Removal](#)
20 January 2022 / 3 – 4 ET / Noon – 1 PT
National Academy of Sciences, Engineering, and Medicine
- [American Meteorological Society 2022 Annual Meeting on Environmental Security](#)
23 – 27 January 2022 / Houston, TX
- [Climate Risk North America 2022](#)
15-17 February 2022 / Virtual
The Economist
- **[New]** [2022 Federal Environmental Symposium](#)
28-31 March 2022 / Webinar
Federal Facilities, Environmental Stewardship & Compliance Assistance Center
- [Innovations in Climate Resilience Conference](#)
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Website:** [NPS Climate-related Student Theses](#)
The CSN has updated its website to include student theses on climate and security issues. Many thanks to Jake Wigal for building our website and keeping it updated.
- **Report:** [12 Insights on Hydrogen](#)
Agora, December 2021
- **Network:** [Sabin Center Launches Peer Review Network of Global Climate Litigation](#)
Sabin Center for Climate Change Law, 20 December 2021
- **Article:** [Physiological costs of undocumented human migration across the southern United States border](#)
Science, 16 December 2021
- **Remarks:** [Secretary-General's remarks at Security Council debate on Security in the Context of Terrorism and Climate Change](#)
United Nations, 9 December 2021
- **Monthly Summary:** [The real mask-to-mask climate negotiations](#)
Media & Climate Change Observatory, November 2021

OPPORTUNITIES

- [SERDP Funding Announcement](#)
Pre-proposals due 6 January 2022
- [National Global Change Research Plan](#)
The U.S. Global Change Research Program (USGCRP) is seeking public comment on the prospectus for its National Global Change Research Plan (2022-2031). All comments must be input via the [USGCRP's Review and Comment System](#) by 11:59 p.m. ET, on January 11, 2022 for consideration.
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In January and February, USGCRP and National Climate Assessment authors will host a series of workshops to solicit feedback on climate change-related issues. The information gathered will help the authors determine topics to cover in their chapters of the Fifth National Climate Assessment.
- **Proposed Rule Comment Period Open:** [Federal Acquisition Regulation: Minimizing the Risk of Climate Change in Federal Acquisitions](#)
DOD, GSA, NASA; comment period open until 13 January 2022

- Call for Article Submissions: [International Journal of Climate Change: Impacts and Responses](#)

Dear CSN Members,

Below are updates from the last week in the climate and security world. Wishing each of you a happy new year!

Kristen

NPS Climate & Security Network Weekly Update: 30 December 2021

NEWS

- [**Year in Review: The Top Climate & Security Stories of 2021**](#)
Center for Climate & Security, 29 December 2021
- [**Solar recycling is broken, but there's a plan to fix it**](#)
The Verge, 29 December 2021
- [**The Defense Department's Role in the New Sustainability Executive Order**](#)
Lawfare, 27 December 2021
- [**Biden signs NDAA into law, but when will the money really come?**](#)
Breaking Defense, 27 December 2021
- [**Army to industry: What technologies will increase our ability to drive electrification to the tactical edge?**](#)
Breaking Defense, 23 December 2021
- [**The US Military wants to plug commercial satellites into its orbital networks**](#)
C4ISRNet, 23 December 2021
- [**DOE Establishes New Office of Clean Energy Demonstrations Under the Bipartisan Infrastructure Law**](#)
Department of Energy Release, 21 December 2021
- [**EPA Finalizes Greenhouse Gas Standards for Passenger Vehicles, Paving Way for a Zero-Emissions Future**](#)
EPA Release, 20 December 2021
- [**Russia's 'Nyet' Does Not Mean Climate Security Is off the Security Council Agenda**](#)
New Security Beat, 14 December 2021

EVENTS

- [**Federal Innovation Summit: Building a Culture for Innovation**](#)
19-20 January 2022 / Virtual
Partnership for Public Service
- [**Climate Conversations: Ocean Carbon Dioxide Removal**](#)
20 January 2022 / 3 – 4 ET / Noon – 1 PT
National Academy of Sciences, Engineering, and Medicine
- [**American Meteorological Society 2022 Annual Meeting on Environmental Security**](#)
23 – 27 January 2022 / Houston, TX
- **[New]** [**Arctic Frontiers 2022: Pathways Science**](#)
31 January – 3 February 2022 / Tromsø, Norway & Online
- [**Combined Naval Address on Climate, Energy & Environment featuring Dr. Marshall Shepherd**](#)
2 February 2022 / 0930 – 1030 PT
Virtual / Registration info coming in January
The event is open to NPS faculty, students, staff and alumni. We will share a video with the entire CSN membership following the event. Co-sponsored with Naval War College, U.S. Naval Academy, and Marine Corps University.
- [**Climate Risk North America 2022**](#)
15-17 February 2022 / Virtual
The Economist
- **[New]** [**Virtual Conference of the Global Council for Science and the Environment**](#)
8-10 March 2022 / Virtual
Theme: Tipping Points for a Climate Positive Future
- [**2022 Federal Environmental Symposium**](#)
28-31 March 2022 / Webinar
Federal Facilities, Environmental Stewardship & Compliance Assistance Center
- [**Innovations in Climate Resilience Conference**](#)
29-30 March 2022 / Columbus, OH
Battelle

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Report:** [**Exploring Gaps in Arctic Governance**](#)
Rand, December 2021

OPPORTUNITIES

- [SERDP Funding Announcement](#)
Pre-proposals due 6 January 2022
- [National Global Change Research Plan](#)
The U.S. Global Change Research Program (USGCRP) is seeking public comment on the prospectus for its National Global Change Research Plan (2022-2031). All comments must be input via the [USGCRP's Review and Comment System](#) by 11:59 p.m. ET, on January 11, 2022 for consideration.
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DOD, GSA, NASA; comment period open until 13 January 2022
- **Call for Article Submissions: [International Journal of Climate Change: Impacts and Responses](#)**