Dear CSN Members,

Below is the climate security update for this week and a special section on what we learn from solar eclipses like the one that will cross North America on Monday.

Hope everyone has a nice weekend,

Kristen

Kristen M Fletcher
Faculty Associate-Research | Naval Postgraduate School
Energy Academic Group | Climate & Security Network
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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 5 April 2024

Special Section: Solar Eclipse
- The Washington Post (podcast): What makes 2024’s total solar eclipse so special
- NBC News: Scientists gear up to study solar eclipse with high-altitude planes and sun-orbiting probes
- University of Illinois: What can researchers learn about ecosystems and the environment during the total eclipse?
- Nature Communications: Clouds dissipate quickly during solar eclipses as the land surface cools
- Universe Today: Solar Eclipses Provide a Rare Way to Study Cloud Formation

NEWS
- India’s Pivot to Climate Diplomacy in the Indo-Pacific
  5 April 2024, The Geopolitics
- Food security and climate resilience
  4 April 2024, The Kathmandu Post
- Environmental Protection Agency Gives $20 Billion in ‘Green Bank’ Grants
  4 April 2024, The New York Times
- Climate engineering carries serious national security risks – countries facing extreme heat may try it anyway, and the world needs to be prepared
  4 April 2024, The Conversation
- Climate Change Impacts Terrorist Activity
  4 April 2024, Mirage News
- How to Revive a Burned Forest? Rebuild the Tree Supply Chain
  4 April 2024, The New York Times
- Climate change: Logging decline after political change in Brazil, Columbia
  4 April 2024, BBC
- COP28 introduced peace and conflict into the climate discussion. What comes next?
3 April 2024, Middle East Institute

- **UAE announces $1.2m partnership with UN Climate Security Mechanism**
  3 April 2024, The National News (UAE)

- **Insurance trends are deciding where Americans will live as planet heats**
  3 April 2024, The Hill

- **Capitalism’s impact on the environment: How the economy is driving climate change**
  3 April 2024, The Arkansas Traveler

- **Investing In Resilience To Counter Climate Migration**
  2 April 2024, Forbes

- **South Africa’s laws aren’t geared to protecting against climate change: judges are trying to fill the gap**
  1 April 2024, The Conversation

- **Russia’s war is weakening scientists’ ability to track the climate**
  1 April 2024, The Hindu

- **This week in climate policy: 4 stories you should follow**
  1 April 2024, GreenBiz

- **Gaza’s environmental toll raises questions of war crime**
  1 April 2024, Environmental Health News

- **300+ Organizations Call On Europe To Make Clean Climate A Human Right**
  31 March 2024, Forbes

- **Can We Engineer Our Way Out of the Climate Crisis?**
  31 March 2024, The New York Times

- **Climate adaptation research applied ‘in real-time’**
  29 March 2024, Phys.org

- **Climate change is messing with how we measure time: study**
  29 March 2024, Forbes

- **Atmospheric observations in China show rise in emissions of a potent greenhouse gas**
  28 March 2024, Phys.org

- **Geoengineering Faces a Wave of Backlash Over Regulatory Gaps and Unknown Risks**
  26 March 2024, Inside Climate News

- **The ‘90s are over: 5 reasons to embrace carbon pricing today**
  26 March 2024, The Hill

- **Arab countries perform poorly on climate action scorecard**
  24 March 2024, Nature Middle East

- **U.S. Global Research Program Announces First National Nature Assessment Chapter Leadership**
  7 March 2024, USGCRP Release
REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Podcast:** The View from MSC: Sustainable Security in a Hot and Hungry World
  Nexus, 1 April 2024

- **Plan:** Decarbonizing the U.S. Economy by 2050: A National Blueprint for the Buildings Sector
  U.S. Department of Energy, April 2024

- **Article:** Nature of war. How Russian sacrificed its environment for a military economy
  The Insider, 26 March 2024

- **Annual Report:** Our Changing Planet: The U.S. Global Research Program for Fiscal Year 2024
  U.S. Global Research Program, February 2024

- **Report:** Changes in the Arctic: Background and Issues for Congress
  Congressional Research Service, 19 March 2024

- **Article:** Climate, conflict and internal migration in Columbia
  Vienna Yearbook of Population Research, April 2024

- **Paper:** The ASEAN Defence Ministers’ Meeting: A Platform for Climate Security Cooperation
  S. Rajaratnam School of International Studies, 28 March 2024

- **Article:** Monsoon Marauders and Summer Violence: Exploring the Spatial Relationship between Climate Change and Terrorist Activity in India
  Journal of Applied Security Research, February 2024

- **Article:** Model-based financial regulations impair the transition to net-zero carbon emissions
  Nature Climate Change, 2 April 2024

- **Fact Sheet:** Islands: Coastal Adaptation Through Planning
  Coastal States Organization, March 2024

- **Report:** New Arctic Realities: Between Conflicting Interests and Avenues for Cooperation
  Centre for East European and International Studies, March 2024

- **Report:** Extreme Weather and Climate Hazard Impacts on Energy and Water Utilities
  RAND, 26 March 2024

- **Video:** Is the world focused enough on climate change?
  Al Jazeera, 4 April 2024

- **Report:** Nuclear Power Plants: NRC Should Take Actions to Fully Consider the Potential Effects of Climate Change
  U.S. Government Accountability Office, April 2024

- **Report:** Empowering Women to Drive Sustainable Energy Access in Rural Tajikistan
  Organization for Security and Co-operation in Europe, 21 March 2024
- **Article:** [When the Chips Are Down: Taiwan’s Energy and Water Conundrum](#)  
  China Brief Journal, 29 March 2024 (pp 2-5)

- **Guide:** [Navigating Climate Change in Defence: Climate Risk Management Guide for Chiefs of Defence Staff](#)  
  European Commission, March 2024

- **Report:** [The Effects of the Crisis in Afghanistan on Central Asia’s Energy Sector: A Risk Assessment](#)  
  Organization for Security and Co-operation in Europe, 18 March 2024

- **Research Paper:** [Tackling trade-related water risks](#)  
  Environment and Society Centre, March 2024

- **Blog Post:** [Exploring “Climate Security” and Its Relationship to Atrocity Prevention](#)  
  United States Holocaust Memorial Museum, 28 March 2024

- **Article:** [Spatial spillovers of violent conflict amplify the impacts of climate variability on malaria risk in sub-Saharan Africa](#)  
  Earth, Atmospheric, and Planetary Sciences, 1 April 2024

- **Article:** [To be policy-relevant, future climate research must include the noncontiguous United States](#)  
  Earth, Atmospheric, and Planetary Sciences, 21 March 2024

- **Video:** [Social Systems and Justice in the Fifth National Climate Assessment](#)  
  U.S. Environmental Protection Agency, March 2024

- **Podcast Series:** [National Climate Assessment 5](#)  
  U.S. Global Change Research Program, March/April 2024 / Episodes include:  
  - Road Trip!  
  - Art x Climate  
  - The Fifth National Climate Assessment  
  - What’s at Risk?  
  - Overview: Understanding risks, impacts, and responses  
  - Taking Action  
  - Our Choices for Our Future

**EVENTS**

- **[NEW]** [Are Capitalism and Climate Progress Compatible?](#)  
  9 April 2024 / 8:30 am ET / 5:30 am PT / Virtual  
  Atlantic Council

- **Introduction to Strategic Science Communication**  
  12 April 2024 / 1 pm ET / 10 am PT / Virtual  
  Compass

- **[NEW]** [Funding the Future: The Impact of Federal Clean Energy Investments](#)  
  12 April 2024 / 9:30 – 10:30 am ET / 6:30 – 7:30 am PT / Virtual
Environmental and Energy Study Institute

- **17th Annual STAR-TIDES Capabilities Demonstration: Adapting to Climate Change**
  15-16 April 2024 / George Mason University’s Mason Square
  17-18 April 2024 / Pentagon Center Courtyard
  George Mason University Center for Resilient and Sustainable Communities

- **[NPS] Global Climate and Energy Policy Trends – 2024 and Beyond**
  16 April 2024 / Noon – 1 pm PT / Monterey, CA
  Climate & Security Network & NPS Energy Academic Group

- **[NEW] Demystifying Ocean Carbon Dioxide Renewal**
  16 April 2024 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual
  Environmental and Energy Study Institute

- **The role of development finance institutions in addressing food security in fragile economies**
  19 April 2024 / 9 – 10 ET / 6 – 7 PT / Virtual
  Overseas Development Institute

- **[NEW] Report Release Event: Community-driven Relocation on the Gulf Coast: Regional Expert Meeting and Dissemination Event**
  19 April 2024 / 10 am – 7:30 pm ET / New Orleans, LA
  National Academies of Sciences, Engineering, and Medicine

- **Innovations in Climate Resilience Conference 2024**
  22-24 April 2024 / Washington DC
  Battelle and National Lab Technical Partners

- **True False, Hot Cold (Film Screening)**
  24 April 2024 / 7 pm PT / Los Angeles, CA
  University of Southern California

- **[NEW] Climate Conversations: Environmental Justice**
  26 April 2024 / 12:30 – 1:45 pm ET / 9:30 – 10:45 am PT / Virtual
  National Academies of Sciences, Engineering, and Medicine

- **[NPS] Seapower Conversation: Security Challenges from Rising Seas**
  2 May 2024 / 1:00 pm ET / 10:00 am PT / Monterey, CA and Virtual
  NPS Climate & Security Network and Naval Warfare Studies Institute

- **2024 Stockholm Forum on Peace and Development**
  6 May 2024 / Stockholm & Virtual
  Stockholm International Peace Research Institute

- **Brines as a Resource for Critical Minerals**
  7 May 2024 / 11 am – 4 pm ET / 8 am – 1 pm PT / Washington, DC & Virtual
  National Academies of Sciences, Engineering, and Medicine

- **ICLR 2024 Workshop: Tackling Climate Change with Machine Learning**
  11 May 2024 / Vienna, Austria
Climate Change AI

- **6th National Adaptation Forum**
  14-16 May 2024 / Saint Paul, MN
  EcoAdapt and American Society of Adaptation Professionals

- **Climate Leadership Conference**
  21-23 May 2024 / Cleveland, OH
  The Climate Registry and partners

- **Getting to Zero Forum**
  21-23 May 2024 / Charlotte, NC
  New Buildings Institute

- **Climate Crossroads Summit 2024**
  16-17 July 2024 / Washington, DC & Virtual
  National Academies of Sciences, Engineering, and Medicine

- **17th International Conference on Climate Change: Impacts & Responses**
  23-25 January 2025 / Miami, FL
  Florida International University and Partners

**OPPORTUNITIES**

- **Climate Change AI Summer School 2024**
  Climate Change AI / **Applications due 14 April 2024.**

- **[NEW] Job Announcement: Climate Strategy Program Analyst**
  U.S. AFRICA Command, Strategy, Engagement and Programs, J5 / **Applications due 16 April 2024.**

- **Call for Abstracts: Session on Climate Change and Security in a Spatially Interconnected and Multi Domain Context**
  European Meteorological Society / **Abstracts due 18 April 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.**

- **Funding Opportunity: Environmental and Climate Justice Climate Change Program**
  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 and a special section on NATO in honor of its 75th anniversary and a few extra perspectives on the European Court of Human Rights climate change decisions that came out this week.

Also, we hope you can join us for the upcoming CSN event:

- [NPS] Global Climate and Energy Policy Trends – 2024 and Beyond
  16 April 2024 / Noon – 1 pm PT / Monterey, CA
  Climate & Security Network & NPS Energy Academic Group

This is an in-person only event but a video will be posted 1-2 weeks following the event. We’ll include that in the resources section of the weekly.

Hope everyone has a nice weekend,

Kristen

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NPS Climate & Security Network Weekly Update: 12 April 2024

Special Section: NATO & Climate Security
- NATO Climate & Security Impact Assessment (2023)
- NATO Climate & Security Action Plan (2021)
  - Compendium of Best Practice (2023)
- Greenhouse Gas Emissions Mapping and Analytical Methodology (2023)
- NATO Climate Change and Security Centre of Excellence (Canada)

Special Section: European Court of Human Rights Climate Change Decisions
- Just Security: Strasbourg’s “Case of the Century” – Revolutionary Climate Judgment from the European Court of Human Rights
- Foreign Policy: Swiss Women Win Landmark Climate Victory
- Forbes: European Court Rules Climate Change Protections Are a Human Right
- The New York Times: In Landmark Climate Ruling, European Court Faults Switzerland
- The Guardian (Podcast): The senior Swiss women who went to court over climate change, and won

NEWS
- After climate tipping points, change will come slowly, then all at once
  11 April 2024, The Hill
- Water Security and Clean Energy Collide in South Texas
  11 April 2024, Inside Climate News
• **Climate change and business transformation through climate risk management**
  11 April 2024, The Nation (Thailand)

• **Climate solutions, by the hundred**
  10 April 2024, Grist

• **Zambia grapples with the fallout of climate change**
  10 April 2024, Environmental Health News

• **A distinct right: On climate change and species protection**
  10 April 2024, The Hindu

• **Ocean Heat Has Shattered Records for More Than a Year: What’s Happening?**
  10 April 2024, The New York Times

• **Infectious Disease: An Overlooked Climate Change Impact: How Leaders Can Help**
  10 April 2024, Forbes

• **The legal battles changing the course of climate change**
  10 April 2024, BBC

• **LI-COR Environmental Acquires Onset to Enhance Climate Change and Food Security Monitoring**
  10 April 2024, Environment + Energy Leader

• **Right against climate change part of right to life, equality: Read the Supreme Court’s exact arguments**
  8 April 2024, Down To Earth (reporting on India case)

• **Climate change: ‘Uncharted territory’ fears after record hot March**
  8 April 2024, BBC

• **‘Slow-motion disaster:’ Panama’s Indigenous leave home as sea levels rise**
  8 April 2024, Context

• **New planetary boundary game bridges education and climate action**
  8 April 2024, Stockholm Resilience Centre

• **Biden Administration Pressed to Act on Federal Contractor Climate Disclosure**
  8 April 2024, Inside Climate News

• **U.S. Insurance: First In The Climate Crisis Line Of Fire**
  8 April 2024, Forbes

• **The heat is on: Accelerating climate action at a time of record-breaking temperatures**
  4 April 2024, MIT Joint Program on the Science and Policy of Global Change

• **The unintended consequences – How protectionist policies in Europe and the United States undermine the energy transition in the Global South**
  4 April 2024, Energy Transition

• **Court green lights water district challenge to Navy water rights; rejects storage argument and attempt to mine the basin**
California unveils research into ‘floating solar’ project over major canal

4 April 2024, The Daily Independent (CA)

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Summary:** The “Geopolitics of Climate Change and Conflict” Series: A Summary
  International Crisis Group, 10 April 2024

- **Guide:** Guide for Adaptation and Resilience Finance
  UN Office for Disaster Risk Reduction, April 2024

- **Article:** Icy Routes to Safety: A Human Approach to Managing Ambitions of Refugee Weaponization at the European Arctic Border with Russia
  Wilson Center, April 2024

- **Article:** In-depth Q&A: How does climate change drive human migration?
  Carbon Brief, 10 April 2024

- **Report:** Global Gateway: Towards a European External Climate Security Strategy?
  French Institute of International Relations, April 2024

- **Report:** Towards a common vision for climate change, security and migration in the Mediterranean
  CGIAR Initiative on Fragility, Conflict and Migration, April 2024

- **Podcast:** Hawaii Prioritizes Energy Equity So No One Gets Left Behind or Forgotten
  The Climate Conversation, 9 April 2024

- **Article:** Sanctions by The Numbers: The Russian Energy Sector
  Center for a New American Security, 4 April 2024

- **Article:** Women Affected by “Gender-Biased” Climate Change Deserve Justice
  Inter Press Service, 11 April 2024

EVENTS

- **17th Annual STAR-TIDES Capabilities Demonstration: Adapting to Climate Change**
  15-16 April 2024 / George Mason University’s Mason Square
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  EcoAdapt and American Society of Adaptation Professionals

• **Leveraging Community Benefit Frameworks: Empowering Communities to Benefit from Federally Funded Energy Projects**
  16-17 May 2024 / Washington, DC
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- **Climate Leadership Conference**
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Dear CSN Members,

Below is the climate security update for this week and a special section on the Climate & Security Network as it celebrates its 3rd birthday this month.

Also, we hope you can join us for our upcoming CSN birthday event:

**3 Year Celebration of CSN**
23 April 2024 / 4:30 pm PT
Trident Room, NPS Campus, Monterey, CA / In-person only

For those without a CAC who want to attend, please contact me for entry onto base.

Hope everyone has a nice weekend & a Happy Earth Day!

Kristen

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NPS Climate & Security Network Weekly Update: 19 April 2024

**Special Section: Three Years of the NPS Climate & Security Network**

- NPS Partnership with Stanford Doerr School of Sustainability
  - [NPS, Stanford Collaborate on Ocean & Climate Security Solutions at Workshop](#)
  - [NPS, Stanford Doerr School of Sustainability Team Up for the Department of the Navy’s Latest Climate Tabletop Exercise](#)

- Research, Discourse, & Increased Climate Literacy
  - [Meet the 2023-2024 NPS-Stanford Climate Security Fellows](#)
  - [Climate & Security Research Priorities at NPS](#)
  - [32 Events](#), including 7 Combined Naval Addresses with our Naval education partners

- And... one that's close to my heart...
  - [Three years of CSN Weekly Member Updates](#)

**NEWS**

- [From Concept To Impact: Navigating The Climate Tech Landscape With AI And Robotics](#)
  19 April 2024, Forbes

- [Earth’s record hot streak might be a sign of a new climate era](#)
  19 April 2024, The Washington Post

- ['No longer credible': Scottish government abandons climate goal](#)
  19 April 2024, E&E News
• **Perfect storm: How climate change amplifies El Niño fallout**  
  18 April 2024, Context

• **Modelling injustice: South experts call for climate model paradigm shift**  
  18 April 2024, African Arguments

• **Drought Pushes Millions Into ‘Acute Hunger’ in Southern Africa**  
  18 April 2024, The New York Times

• **Untangling Climate Risk, Financial Risk, And Climate Impact**  
  18 April 2024, Forbes

• **Dubai’s record-shattering “rain bomb” has clear climate change ties**  
  17 April 2024, Axios

• **Climate change and cloud seeding ‘exacerbated’ deadly flooding in Gulf countries**  
  17 April 2024, Middle East Eye

• **Glimpses from the Global South for the climate and just energy transition agenda**  
  17 April 2024, G20 News

• **CSIS Launches Project on Critical Minerals Security**  
  17 April 2024, Center for Strategic & International Studies

• **Africa Pushing Limits to Boost Renewable Energy Supply Chain, Security**  
  17 April 2024, All Africa

• **Earth Day Highlights DOD’s Efforts to Support Mission, People, Environment**  
  17 April 2024, DOD Release

• **Can geothermal energy ease the US military’s logistics challenges?**  
  16 April 2024, Defense One

• **Addressing Haiti’s Climate Security Challenges: A Pathway to Peace and Resilience**  
  16 April 2024, UN Development Programme

• **Ukraine’s Energy Resilience: A Blueprint for European Energy Security**  
  16 April 2024, Real Clear Energy

• **Nigeria yet to mainstream climate action into economic, foreign policy framework**  
  16 April 2024, Nigerian Tribune

• **Three Additional Next Generation Geothermal Technology Companies Advancing DoD Energy Resilience**  
  15 April 2024, Sunya Energy

• **Pentagon Arctic Policy Official Underscores Critical Role of Alliances in Evolving Region**  
  15 April 2024, DOD Release

• **Beyond Complicity, Obstruction and Geopolitics: Military Forces and Climate Security**  
  15 April 2024, New Security Beat
• **The Elephant in the Climate Room: Financing Sustainable Security and Supporting Future-Fit Systems**  
  15 April 2024, The Center for Climate & Security

• **China is actively addressing challenges brought by climate change amid complex international environment: Chinese new climate envoy Liu Zhenmin**  
  15 April 2024, Global Times

• **Climate change requires US and China to cooperate not compete, experts warn**  
  14 April 2024, South China Morning Post

• **Can India and the United States Bridge the Climate Gap?**  
  13 April 2024, The National Interest

• **From a ‘historic’ climate case to subscription solar: Positive environmental stories from 2024**  
  12 April 2024, Euronews

• **Is Climate Change Now More About Mitigation?**  
  12 April 2024, Environmental Protection

• **Why Asia must solve food waste to hit its environmental goals**  
  11 April 2024, South China Morning Post

• **Biofuel, solar power plants proposed for Pearl Harbor would demolish historic structures**  
  11 April 2024, Stars and Stripes

• **AI policy can’t ignore climate change: We need net zero AI emissions**  
  10 April 2024, The Hill

• **Maintaining Momentum: Three Steps Countries Can Take to Make Infrastructure More Resilient**  
  9 April 2024, Asian Development Blog

**REPORTS, PUBLICATIONS & OTHER RESOURCES**

• **Newsletter:** [NOAA Fisheries Climate Change Newsletter / “The Shift”](#)  
  NOAA Fisheries, April 2024

• **Blog Post:** [The Next Phase of Electricity Decarbonization? Planned Power Capacity is Nearly All Zero-Carbon](#)  
  The White House, 11 April 2024

• **White Paper:** [Assessing Methods to Integrate the Physical Risks and Transition Risks and Opportunities of Climate Change into the President’s Macroeconomic Forecast](#)  
  The White House, 16 April 2024

• **Report:** [Resilience of Food Security to Climate Change](#)  
  AZO CleanTech, 12 April 2024

• **Podcast:** [The pros and pitfalls of hydrogen power, according to MIT energy expert](#)  
  Boston Public Radio, 17 April 2024
Podcast: Artificial Intelligence, Real Climate Impacts
Climate One, 19 April 2024

Article: Can Innovation Diplomacy End the Climate Gamble?
Fair Observer, March 2024

Video: Marine Corps Air Station Yuma Puts Hooves on the Ground
MCAS Yuma, 25 March 2024

Prediction Model: Regional Arctic System Model Sea Ice Prediction
Naval Postgraduate School, 1 April 2024

Research from Global Water Security Center:
- Marshall Islands: By 2050, Rising Sea Levels Will Increase Recurrent Flooding, Inundation, April 2024
- Mexico City 2024: Imminent Water “Day Zero” Crisis is Exaggerated, March 2024
- Haiti & Dominican Republic, 2024: Massacre River is Political Flashpoint between Two Nations, March 2024

Monthly Report: March 2024 Global Climate Report
National Centers for Environmental Information, 8 May 2024

Nature Articles:
- Climate damage projections beyond annual temperature, 17 April 2024
- Closing the gap between climate regulation and food security with nano iron oxides, 16 April 2024
- Unveiling energy security in agriculture through vital indicators extraction and insights, 15 April 2024
- High-resolution meteorology with climate change impacts from global climate model data using generative machine learning, 9 April 2024

Podcast: Sea Change:
- All Gassed Up, Part 1: The Carbon Coast (Mar 2024)
- All Gassed Up, Part 2: The German Connection (April 2024)

Article: Empirical modeling of agricultural climate risk
Proceedings of the National Academy of Sciences, 8 April 2024

Chapter: Climate Change: A Progressive, Principled, and Pragmatic Policy Framework on China
Center for American Progress, 11 April 2024

Podcast: AI for Climate Change Mitigation
Center on Global Energy Policy at Columbia, 9 April 2024
- Related report: Artificial Intelligence for Climate Change Mitigation (2023)

EVENTS

Innovations in Climate Resilience Conference 2024
22-24 April 2024 / Washington DC
Battelle and National Lab Technical Partners
European military spending & the climate emergency: squaring the circle
23 April 2024 / 4 – 5:15 pm CEST / 10 – 11:15 am ET / 7 – 8:15 am PT / Virtual
Delàs Center for Peace Studies (Spain)

Ocean Encounters: Rising Seas, Resilient Coasts: Understanding, predicting and adapting to sea level rise
24 April 2024 / 7:30 pm ET / 4:30 pm PT / Virtual
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University of Southern California

Climate Conversations: Environmental Justice
26 April 2024 / 12:30 – 1:45 pm ET / 9:30 – 10:45 am PT / Virtual
National Academies of Sciences, Engineering, and Medicine

Effect of the Energy Transition on Water Resources: Water Science and Technology Board Spring 2024 Meeting
29 April 2024 / 11 am – 4 pm ET / Washington, DC
National Academies of Sciences, Engineering, and Medicine

Dams in Every District: Challenges, Opportunities and What’s Ahead
1 May 2024 / 3 – 4:30 pm ET / 12 – 1:30 pm PT / Washington, DC & Virtual
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2 May 2024 / 1:00 pm ET / 10:00 am PT / Monterey, CA & Virtual
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National Academies of Sciences, Engineering, and Medicine

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6th National Adaptation Forum
14-16 May 2024 / Saint Paul, MN
EcoAdapt and American Society of Adaptation Professionals
- **Leveraging Community Benefit Frameworks: Empowering Communities to Benefit from Federally Funded Energy Projects**
  16-17 May 2024 / Washington, DC
  National Academies on Sciences, Engineering, and Medicine

- **Climate Leadership Conference**
  21-23 May 2024 / Cleveland, OH
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- **Getting to Zero Forum**
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  New Buildings Institute

- **Climate Crossroads Summit 2024**
  16-17 July 2024 / Washington, DC & Virtual
  National Academies of Sciences, Engineering, and Medicine

- **[NEW] Development of Assessment Tools for Downscaled Global Climate Models**
  22 August 2024 / 12:00 pm ET / 9:00 am PT / Virtual
  SERDP & ESTCP

- **[NEW] DOD Energy & Environment Innovation Symposium**
  3-6 December 2024 / Washington, DC
  SERDP, ESTCP, OECIF, OEPF

- **17th International Conference on Climate Change: Impacts & Responses**
  23-25 January 2025 / Miami, FL
  Florida International University and Partners

**OPPORTUNITIES**

- **[NEW] Request for Information: Marine Carbon Dioxide Removal Research Plan**
  National Science Foundation / **Responses due 23 April 2024.**

- **[NEW] Notice of Funding Opportunity: Research Grants**
  Defense Security Cooperation University / **White papers due 30 April 2024.**

- **[NEW] Call for Proposals: 2024 Security Cooperation Conference**
  Topic: Building Lasting Partnerships: Mission Possible
  Defense Security Cooperation University / **Proposals due 1 May 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.**

- **Funding Opportunity: Environmental and Climate Justice Climate Change Program**
  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 and a special section on climate progress in honor of this week’s Earth Day.

Also, we hope you can join us for our upcoming event:

- **[NPS] Seapower Conversation: Rising Seas as a Threat to Readiness**
  2 May 2024 / 1:00 pm ET / 10:00 am PT / Monterey, CA & Virtual
  NPS Climate & Security Network and Naval Warfare Studies Institute

  *For those without a CAC who want to attend in-person, please remember to register by 30 April to ensure entry onto base. For those without a CAC who are registered, I will send instructions on 1 May for entry.*

Kristen

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Energy Academic Group | Climate & Security Network
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NPS Climate & Security Network Weekly Update: 26 April 2024

**Special Section: Climate Progress... In honor of Earth Day 2024**
- Planet NOAA Podcast: [Earth Day is every day](#)
- Georgetown Climate Center: [Celebrating Climate Planning on Earth Day: A Look at Priority Climate Action Plans Across the U.S.](#)
- National Environmental Satellite, Data and Information Service: [Celebrating Earth Day with NOAA Satellites](#)
- Earth.com: [Earth Day 2024: The tide may finally be turning](#)
- The Scotsman: [On Earth Day climate change and conflict are coming together](#)
- Foreign Affairs: [Climate Policy Is Working](#)
- The New York Times: [Three Places Changing Quickly to Fight Climate Change](#)
- USA Today: [For Earth Day 2024, experts are spreading optimism – not doom. Here’s why.](#)

**NEWS**
- [Nixon Advisers’ Climate Research Plan: Another Lost Change on the Road to Crisis](#)
  26 April 2024, Inside Climate News
- [AI advances may frustrate U.S. climate goals as electric demand surges](#)
  26 April 2024, Axios
- [Climate, conflict and security: the interplay](#)
  26 April 2024, The Express Tribune (Pakistan)
- [Rapid militarization jeopardizing climate, claim NGOs](#)
  25 April 2024, Euronews
• How a climate U-turn broke the Scottish government
  25 April 2024, Politico

• Heavy precipitation hitting vulnerable communities in the UAE and Oman becoming an increasing threat as the climate warms
  25 April 2024, World Weather Attribution

• EU Votes to Leave Controversial Energy Treaty, Approved Watered Down Agricultural Policies
  25 April 2024, Earth.org

• Why does the EU want to quit the Energy Charter Treaty?
  24 April 2024, Context

• International Tribunal Set to Issue Climate Change Opinion on May 21
  24 April 2024, Forbes

• South Africa Advised by World Bank on Climate Insurance, Continency Fund Options
  24 April 2024, Bloomberg

• U.S. Department of Energy Announces Final Rule to Propel Federal Buildings Toward Zero Emissions
  24 April 2024, Department of Energy Release

• How the Navy Is Fighting Climate Change With Action on Clean Energy
  24 April 2024, Newsweek

• Asia bears biggest climate-change brunt amid extreme weather: WMO
  23 April 2024, Al Jazeera

• The environmental cost of China’s addiction to cement
  23 April 2024, BBC

• Eye on turnout, EC sets up task force to review heat wave impact before polling
  23 April 2024, Indian Express

• State of the climate: 2024 off to a record-warm start
  23 April 2024, Carbon Brief

• Beyond higher temperatures: Preparing for national security risks posed by climate change
  23 April 2024, Phys.org

• Indigenous advocates at the UN say the green transition is neither clean nor just
  23 April 2024, Grist

• DOD Combines Adaptation, Mitigation to Confront Climate Change
  23 April 2024, Department of Defense Release

• The Elephant in the Climate Room: Financing Sustainable Security and Supporting Future-Fit Systems
  22 April 2024, Homeland Security Today
• **UN labor agency report warns of rising threat of excess heat, climate change on world’s workers**
  22 April 2024, AP News

• **‘Children won’t be able to survive’: inter-American court to hear from climate victims**
  22 April 2024, The Guardian

• **NOAA expands availability of new heat forecast tool ahead of summer**
  22 April 2024, National Oceanic and Atmospheric Administration

• **USNA to Open Center for Energy Security and Infrastructure Resilience**
  22 April 2024, US Naval Academy Release

• **Dubai floods expose weaknesses to a rapidly changing climate**
  20 April 2024, The Japan Times

• **Japanese satellite will beam solar power to Earth in 2025**
  19 April 2024, Space.com

• **India election 2024: What the manifestos say on energy and climate change**
  18 April 2024, Carbon Brief

• **Armed forces, too, must help fight climate change**
  18 April 2024, The Strategist (Australia)

• **Fighting Climate Change and Pollution in the Arctic Region – The ICEBERG Project has begun**
  18 April 2024, ICEBERG Release

• **Marina Silva on Brazil’s Fight to Turn the Tide on Deforestation**
  18 April 2024, Yale Environment 360

• **The Politics and Policy of a National Climate Emergency Declaration**
  18 April 2024, American Enterprise Institute

• **How much do government subsidies affect the price of fossil fuel energy? How about renewable energy?**
  17 April 2024, MIT Climate Portal

• **How to achieve speed and scale in the clean energy transition**
  17 April 2024, Stanford Report

• **Researchers shine light on rapid changes in Arctic and boreal ecosystems**
  16 April 2024, Phys.org

• **What is happening to the Arctic sea ice in winter?**
  16 April 2024, Science Norway

• **Climate change ‘bait and switch’ threatens sharks and rays**
  15 April 2024, Carbon Brief

**REPORTS, PUBLICATIONS & OTHER RESOURCES**

• Article: **Inside HABITABLE: Investigating climate-driven migration in rural Thailand**
Carbon Brief, 10 April 2024

- **Quarterly Newsletter:** [Surge](#)  
  NPS Energy Academic Group, April 2024

- **Paper:** [Climate Priorities in the Middle East and North Africa](#)  
  Wilson Center, April 2024

- **Article:** [The perfect storm? Co-occurring climate extremes in East Africa](#)  
  Earth System Dynamics, 24 April 2024

- **Podcasts:**
  - [SF Climate Week 2024: Is California on Track for an Affordable and Just Energy Transition?](#)  
    24 April 2024
  - [SF Climate Week 2024: California Attorney General Rob Bonta on Suing Big Oil](#)  
    23 April 2024

- **Report:** [Mitigating Risk That Climate Change Poses to the National Critical Functions](#)  
  RAND, 16 April 2024

- **Briefer:** [Geoengineering and Climate Change in an Age of Disinformation and Strategic Competition](#)  
  Center for Climate & Security, Council on Strategic Risks, April 2024

- **Briefer:** [Climate Security and Misinformation: A Baseline](#)  
  Center for Climate & Security, Council on Strategic Risks, April 2024

- **Report:** [Impact of Russia’s War on Ukrainian Agriculture](#)  
  German Association for East European Studies & Partners, March 2024

- **Report:** [Automobiles, Air Pollution, and Climate Change](#)  
  Congressional Research Service, 17 April 2024

- **Comment:** [Will AI accelerate or delay the race to net-zero emissions?](#)  
  Nature, 22 April 2024

- **Brief:** [Electrifying the Three Seas: Accelerating renewables and connectivity across 3SI countries](#)  
  Ember, 23 April 2024

- **Podcast:** [All Fired Up for Innovation in Wildfire Risk Analysis](#)  
  Environmental and Energy Study Institute, 23 April 2024

- **Issue Brief:** [Navigating Dominant Narratives and Data Accuracy: Implications for Energy Security](#)  
  Atlantic Council, April 2024

- **Policy Brief:** [Leveraging Livelihood Diversification for Peacebuilding in Climate- and Conflict-affected Contexts](#)  
  Stockholm International Peace Research Institute, April 2024

- **Article:** [The Looming Climate and Water Crisis in the Middle East and North Africa](#)
Carnegie Endowment for International Peace, 19 April 2024

- **Report:** [Nuclear Energy in a Climate Change Context: Current Appropriations for Nuclear Energy Development](#)
  Congressional Research Service, 18 April 2024

- **Article:** [Extreme weather should be defined according to impacts on climate-vulnerable communities](#)
  Nature Climate Change, 23 April 2024

- **Comment:** [The Next Phase of European Climate Policy: Laying the Groundwork with the 2040 Target](#)
  German Institute for International and Security Affairs, April 2024

- **Report:** [From peak to plummet: impending decline of the warm Arctic-cold continents phenomenon](#)
  Climate and Atmospheric Science, March 2024

- **Article:** [Climate Migration’s Impact on Housing Security in the United States](#)
  New America, 16 April 2024

- **Article:** [The economic commitment of climate change](#)
  Nature, 17 April 2024

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**EVENTS**

- **Effect of the Energy Transition on Water Resources: Water Science and Technology Board Spring 2024 Meeting**
  29 April 2024 / 11 am – 4 pm ET / Washington, DC
  National Academies of Sciences, Engineering, and Medicine

- **[NEW] Climate Diplomacy in South Asia: Transboundary Challenges, Collective Solutions**
  1 May 2024 / 9 am ET / 6 am PT / Virtual
  Stimson Center

- **Dams in Every District: Challenges, Opportunities and What’s Ahead**
  1 May 2024 / 3 – 4:30 pm ET / 12 – 1:30 pm PT / Washington, DC & Virtual
  Environmental and Energy Study Institute

- **[NPS] Seapower Conversation: Rising Seas as a Threat to Readiness**
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- **2024 Stockholm Forum on Peace and Development**
  6 May 2024 / Stockholm & Virtual
  Stockholm International Peace Research Institute

- **Brines as a Resource for Critical Minerals**
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  National Academies of Sciences, Engineering, and Medicine
*Indigenous Climate Action at the Speed of Consent*
7 May 2024 / 4 – 5 pm ET / Washington, DC
National Academies of Sciences, Engineering, and Medicine

*ICLR 2024 Workshop: Tackling Climate Change with Machine Learning*
11 May 2024 / Vienna, Austria
Climate Change AI

*[NEW] Enabling US Leadership in Artificial Intelligence for Weather*
13 May 2024 / 10:30 am – 4:30 pm ET / 7:30 am – 1:30 pm PT / Washington DC & Virtual
National Academies for Sciences, Engineering and Medicine

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14-16 May 2024 / Saint Paul, MN
EcoAdapt and American Society of Adaptation Professionals

*[NEW] The Red Zone: Charting Paths to Resilience in the Climate-Conflict Nexus*
15 May 2024 / 11 am – 12:15 pm ET / 8 – 9:15 am PT / Washington, DC & Virtual
Part of Washington Humanitarian Forum 2024
Center for Strategic & International Studies, Humanitarian Agenda, USAID

*Leveraging Community Benefit Frameworks: Empowering Communities to Benefit from Federally Funded Energy Projects*
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23 May 2024 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual
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11 June 2024 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Washington DC & Virtual
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*[NEW] Microgrid Implementation and Considerations for Improved Energy Resilience*
  - **Part 1**: 13 June 2024 / 12:00 pm ET / 9:00 am PT / Virtual
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*Climate Crossroads Summit 2024*
16-17 July 2024 / Washington, DC & Virtual
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• **DOD Energy & Environment Innovation Symposium**
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  23-25 January 2025 / Miami, FL
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**OPPORTUNITIES**

• **Notice of Funding Opportunity: Research Grants**
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• **Call for Proposals: 2024 Security Cooperation Conference**
  Topic: Building Lasting Partnerships: Mission Possible
  Defense Security Cooperation University / Proposals due 1 May 2024.

• **Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet**

• **Funding Opportunity: Environmental and Climate Justice Climate Change Program**
  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 and a special section on the realities of climate change and the insurance industry.

Also, our sincerest thanks to our Seapower Conversation panelists this week and everyone who helped make the event happen. Slides and video from the event will be posted early next week.

Kristen

Kristen M Fletcher
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NPS Climate & Security Network Weekly Update: 3 May 2024

Special Section: Climate Change & Insurance

- Context: Climate change-driven insurance crisis threatens new US states
- BBC: Climate change is fueling the US insurance problem
- Financial Times: The crippling home insurance crisis hitting America
- Bloomberg: Investors Are Increasingly Interested in a Novel Type of Weather Insurance
- Inside Climate News: ‘Insure our Future:’ A Global Movement Says the Insurance Industry Could Be the Key to Ending Fossil Fuels
- PWC: Climate risk and insurance: The case for resilience
- SCOR: The relevance of climate change for life and health insurance
- The Nature Conservancy: Insuring Nature to Ensure a Resilient Future

NEWS

- Why has the flooding in Kenya been so devastating?
  3 May 2024, Al Jazeera

- CO2 removal ‘gap’ shows countries ‘lack progress’ for 1.5C warming limit
  3 May 2024, Carbon Brief

- Small Ocean, Big Hype: Arctic Myths and Realities
  3 May 2024, War on the Rocks

- Why Global South climate entrepreneurship is most needed
  30 April 2024, Fast Company

- Restored NEPA Centers Climate Change and Environmental Justice
  30 April 2024, Audubon

- The world agreed to create a climate reparations fund. Now comes the hard part.
  29 April 2024, Grist

- The double costs of conflict-driven climate change in MENA and beyond
  29 April 2024, Atlantic Council
• The Drowning South: Where Seas are Rising at Alarming Speed
  29 April 2024, The Washington Post

• Can Kazakhstan Meet Its Climate Goals?
  29 April 2024, New Security Beat

• Why climate change is heating Europe faster than the rest of the world
  27 April 2024, Radio France Internationale

• Climate Leaders Debate Goal for Controlling Global Warming
  27 April 2024, Scientific American

• How Abrupt U-Turns are Defining U.S. Environmental Regulations
  26 April 2024, The New York Times

• The potential impacts of climate change on NNSA’s (National Nuclear Security Administration) work
  25 April 2024, U.S. Department of Energy

• Rapid expansion of batteries will be crucial to meet climate and energy security goals set at COP28
  25 April 2024, International Energy Agency

• NATO is boosting AI and climate research as scientific diplomacy remains on ice
  25 April 2024, Nature News

• NATO and Gulf partners boost scientific cooperation on security implications of climate change
  24 April 2024, North Atlantic Treaty Organization Release

• South Korean court hears children’s climate change case against government
  24 April 2024, Reuters

• Why the energy transition needs ‘bridge’ solutions
  24 April 2024, World Economic Forum

• UN Development Programme launches next phase of flagship climate action initiative
  23 April 2024, United Nations Release

• Department of Defense Announces Winners of the 2024 Secretary of Defense Environmental Awards
  22 April 2024, Department of Defense Release

• Protecting a vanishing climate solution
  22 April 2024, Stanford Woods Institute for the Environment

• Origination: The Importance of Designing Beyond Carbon
  11 April 2024, Nature for Justice

REPORTS, PUBLICATIONS & OTHER RESOURCES
• Federal Document: National Security Memorandum on Critical Infrastructure Security and Resilience
The White House, 30 April 2024

• Report: Aviation, Air Pollution, and Climate Change
  Congressional Research Service, 26 April 2024

• Report: Can the World Bank Deliver on Climate Change? Testing the Evolution Roadmap through Loss and Damage
  International Peace Institute, April 2024

• History: The “Carbon Dioxide Problem”: Nixon’s Inner Circle Debates the Climate Crisis
  National Security Archive, 26 April 2024

• Report: New Nuclear Energy: Assessing the National Security Risks
  The George Washington University, April 2024

• Report: Natural Gas and the Energy Transition: Security, Equity and Achieving Net Zero
  Atlantic Council, April 2024

• Issue Brief: Navigating Dominant Narratives and Data Accuracy: Implications for Energy Security
  Atlantic Council, April 2024

• Paper: Climate Priorities in the Middle East and North Africa
  Wilson Center, April 2024

• Report: Navigating the Indian Energy Trilemma: The Role of Liquefied Petroleum Gas
  Observer Research Foundation, April 2024

• Briefing Paper: India’s Critical Minerals Strategy
  Finnish Institute of International Affairs, April 2024

• Report: Bridging the Gap: Accelerating Technology Adoption for Sustainable Food Production
  The Chicago Council on Global Affairs, April 2024

• Article: Developing countries can adapt to climate change effectively using nature-based solutions
  Communications Earth & Environment, 22 April 2024

• Report: Climate Resilience and Democratic Governance in Central America’s Northern Triangle
  Wilson Center and partners, April 2024

• Podcast: Livelihoods: The socioeconomic link between climate change and security
  Climate Diplomacy Podcast, 30 April 2024

• Guide: Simplified Guide to Greenhouse Gas Management for Organizations
  U.S. Environmental Protection Agency, April 2024
  o Related Resource: GHG Emission Factors Hub

• Guidance: Climate Action Plans and Emissions Reduction Plans Defined
U.S. Department of Energy, Better Buildings, April 2024

- **Template:** [GHG Emissions Reduction Audit Scope of Work Template](#)  
  U.S. Department of Energy, Better Buildings, April 2024

- **Report:** [Assessing Risk to National Critical Functions as a Result of Climate Change: 2023 Risk Assessment Update](#)  
  RAND, 22 April 2024

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### EVENTS

- **2024 Stockholm Forum on Peace and Development**  
  6 May 2024 / Stockholm & Virtual  
  Stockholm International Peace Research Institute

- **Brines as a Resource for Critical Minerals**  
  7 May 2024 / 11 am – 4 pm ET / 8 am – 1 pm PT / Washington, DC & Virtual  
  National Academies of Sciences, Engineering, and Medicine

- **Indigenous Climate Action at the Speed of Consent**  
  7 May 2024 / 4 – 5 pm ET / Washington, DC  
  National Academies of Sciences, Engineering, and Medicine

- **Big Ideas in Sustainability: Fireside Chat featuring John Kerry and John Doerr**  
  8 May 2024 / 5 pm PT / Palo Alto, CA and Virtual  
  Stanford University

- **ICLR 2024 Workshop: Tackling Climate Change with Machine Learning**  
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  Environmental and Energy Study Institute

• **[NEW] Climate change and environmental legislation in support of the delivery of the new Programme of Action for SIDS**  
  29 May 2024 / Saint John’s, Antiqua and Barbuda  
  Economic Commission for Latin American and the Caribbean

• **[NEW] Rethinking climate change support in violent conflict-affected states**  
  29 May 2024 / 10:00 am – 4 pm (GMT +2) / Copenhagen & Virtual  
  Danish Institute for International Studies

• **Maximizing the Impact of Natural Climate Solutions**  
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• **Funding Opportunity: Environmental and Climate Justice Climate Change Program**  
  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 and a special section on recent extreme flooding around the globe.

Also, the video and slides from the May 2 Seapower Conversation on Sea Level Rise are now available online.

Kristen

Kristen M Fletcher  
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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 10 May 2024

Special Section: Extreme Flooding

- UN News: Unprecedented flooding displaces hundreds of thousands across East Africa
- Salon: Death toll from floods in Brazil reaches 83, with climate change viewed as the major driver
- Semafor: Brazil’s deadly floods represent the country’s ‘Katrina moment’
- CNBC: Nowhere for the water to go: Dubai flooding shows the world is failing a big climate change drainage test
- The Conversation: As climate change amplifies urban flooding, here’s how communities can become ‘sponge cities’
- AP News: What’s causing the catastrophic rainfall in Kenya?
- The Washington Post: Chinese province of Guangdong hit by historic floods
- Borgen Magazine: Nature-Based Solutions to Address Flooding and Poverty in India

NEWS

- Hurricanes, heatwaves and rising seas: The impacts of record ocean heat  
  9 May 2024, BBC
- Risk Professionals Take On Emergent AI, Climate Change and Global Conflict  
  9 May 2024, The Wall Street Journal
- Australia, Tuvalu To Launch Climate And Security Pact This Year  
  8 May 2024, Barron’s
- The Push to Conserve 30 Percent of the Planet: What’s at Stake?  
  8 May 2024, Council on Foreign Relations
- World’s top climate scientists expect global heating to blast past 1.5C target  
  8 May 2024, The Guardian
- Amid competing pressures, will Ukraine quit its transit of Russian gas?  
  7 May 2024, Atlantic Council
- Hurricane Hunters are chasing more storms – and say they need more aircraft to do it
7 May 2024, Defense One

- **A Town Board in Colorado Repeals Rights of Nature Resolutions**
  7 May 2024, Inside Climate News

- **Vermont passes bill to charge fossil fuel companies for damage from climate change**
  7 May 2024, NBC News

- **What does Peru’s ‘anti-forest law’ mean for the environment?**
  6 May 2024, Context

- **On the Hill in March and April 2024: A Breakdown of Climate, Energy, and Environmental Hearings**
  3 May 2024, Environmental and Energy Study Institute

- **Appeal Court Ordered the Dismissal of a Landmark Youth Climate Court Case**
  3 May 2024, Inside Climate News

- **It’s Time for Closer Japan-US Cooperation on Climate Security**
  3 May 2024, The Diplomat (Asia-Pacific)

- **UK’s Climate Plan To Reach Net Zero Is Ruled Unlawful, Lacking Detail**
  3 May 2024, Forbes

- **New EU trade rules could put poor countries in a billion dollar ‘green squeeze’**
  2 May 2024, Overseas Development Institute

- **Dangerous heat wave envelops hundreds of millions in East Asia**
  2 May 2024, Axios

- **Hydrogen technology to be integrated into solar microgrid at Pearl Harbor base**
  1 May 2024, H2 View

- **Climate risks ignored in National Defence Strategy, former defence chief says**
  1 May 2024, ABC News (Australia)

- **Low water levels in Panama Canal due to increasing demand exacerbated by El Niño event**
  1 May 2024, World Weather Attribution

- **Climate Change and Challenges of Navigation in the Arctic: How Safe are We?**
  30 April 2024, The Arctic Institute

- **Offering clean energy around the clock**
  30 April 2024, MIT News

- **The next big energy fight: Defense Production Act renewal**
  30 April 2024, E&E News

**REPORTS, PUBLICATIONS & OTHER RESOURCES**

- **Report:** [Assessing the U.S. Climate in April 2024](#)
  National Centers for Environmental Information, 8 May 2024

- **Blog Post:**
  - [The Critical Role of Lawyers and Bar Associations in Achieving Net Zero](#)
Sabin Center for Climate Change Law, 8 May 2024

- **KlimaSeniorinnen and the Question(s) of Causation**
  Sabin Center for Climate Change Law, 7 May 2024

- **The Paris Effect: Human Rights in Light of International Climate Goals and Commitments**
  Sabin Center for Climate Change Law, 26 April 2024

- **Update:** Human Rights, Climate Change, and the Role of Geneva
  Geneva Environment Network, 9 May 2024

- **Article:** A Livable Climate Needs Help From Youth; the U.S. Can Foster It
  Center for Climate & Security, 9 May 2024

- **Article:** High-resolution modelling identifies the Bering Strait’s role in amplified Arctic warming
  Nature Climate Change, 8 May 2024

- **Brief:** Going Green Without China?
  European Union Institute for Security Studies, May 2024

- **Podcast:** The ‘Year of Climate’ in International Courts
  Just Security, 8 May 2024

- **Report:** An Edifying Tale of Keeping the Lights On: Societal Resilience in and Energy Crisis – The Case of Estonia
  International Centre for Defence and Security, May 2024

- **Policy Brief:** Embracing Green Tech Innovation is Part of a Saudi Dual Energy Strategy
  Danish Institute for International Studies, May 2024

- **Report:** Commodities and Global Climate Governance: Early Evidence from the EU Deforestation-free Regulation
  Asia Pacific Issues, April 2024

- **Report:** Korea-US Cooperation on Climate Change in the Pacific as Part of the Indo-Pacific Strategy
  Asia Pacific Issues, April 2024

- **Video:** Severe floods inundate Brazil’s southernmost state, displacing thousands
  6 May 2024, Al Jazeera

- **Podcast:** E4: An Introduction to hydrogen energy (re-air)
  TILclimate, 25 April 2024

- **Podcast:** The Kings and Queens of “the Water Prom”
  National Public Radio, 9 May 2024

- **Policy Briefs from Baker Institute for Public Policy**
  Rice University, 2 May 2024
  - Moving Beyond the Refugee Convention Impasse on Climate Displacement: Skills Mobility Partnerships

- **Moving Beyond the Refugee Convention Impasse on Climate Displacement:**
  Skills Mobility Partnerships
Unable or Unwilling to Move? How Climate Change Impacts the Decision to Migrate Among Turkish Farmers

Sea Level Rise in the Nile Delta: Promoting Adaptation Through Circular Migration

A Framework for Protecting Human Rights in the Context of Internal Climate-Induced Displacement

Climate-Induced Displacement in the Middle East and North Africa

The Weaponization of Natural Resources and Disasters During Conflict: The Refugee Convention’s Relevance for Syria and Yemen

- **Video:** [Explainer: What is Carbon Reporting?](#)
  Stanford Business School, 23 April 2024

- **Article:** [A Climate Resilient Army](#)
  Army AL&T Magazine, April 2024

- **Issue Brief:** [The Flaws in Project-based Carbon Credit Trading and the Need for Jurisdictional Alternatives](#)
  Atlantic Council, April 2024

- **Report:** [AI for Energy: Opportunities for a Modern Grid and Clean Energy Economy](#)
  U.S. Department of Energy, April 2024

- **Report:** [Partnership Opportunities to Transform Food Systems](#)
  Center for Strategic and International Studies, April 2024

- **Report Summary:** [Charting the Course: Reducing GHG Emissions from the U.S. Natural Gas Supply Chain](#)
  National Petroleum Council, 23 April 2024

- **Brief:** [Powering Affordable Clean Energy in Rural Areas: Showcasing Three Rural Cooperatives](#)
  Environmental and Energy Study Institute, 7 May 2024

- **Statement:** [U.S. Opening Statement at the 31st Preparatory Meeting of the OSCE Economic and Environmental Forum](#)

- **Book:** [Climate. Changes. Security.: Navigating Climate Change and Security Challenges in the OSCE Region](#)
  Bundesministerium für Landesverteidigung, April 2024

- **Report:** [Stocktaking of security sector roles in climate and environmental security: Report on Iraq](#)
  Geneva Centre for Security Sector Governance, March 2024

**EVENTS**

- **Enabling US Leadership in Artificial Intelligence for Weather**
  13 May 2024 / 10:30 am – 4:30 pm ET / 7:30 am – 1:30 pm PT / Washington DC & Virtual National Academies for Sciences, Engineering and Medicine
• 6th National Adaptation Forum
  14-16 May 2024 / Saint Paul, MN
  EcoAdapt and American Society of Adaptation Professionals

• The Red Zone: Charting Paths to Resilience in the Climate-Conflict Nexus
  15 May 2024 / 11 am – 12:15 pm ET / 8 – 9:15 am PT / Washington, DC & Virtual
  Part of Washington Humanitarian Forum 2024
  Center for Strategic & International Studies, Humanitarian Agenda, USAID

• Leveraging Community Benefit Frameworks: Empowering Communities to Benefit from Federally Funded Energy Projects
  16-17 May 2024 / Washington, DC
  National Academies on Sciences, Engineering, and Medicine

• Climate Leadership Conference
  21-23 May 2024 / Cleveland, OH
  The Climate Registry and partners

• Getting to Zero Forum
  21-23 May 2024 / Charlotte, NC
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• Cities Leading the Way on Nature-Based Solutions
  23 May 2024 / 2 – 3:30 pm ET / 11 am – 12:30 pm PT / Washington DC & Virtual
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• Climate change and environmental legislation in support of the delivery of the new Programme of Action for SIDS
  29 May 2024 / Saint John’s, Antiqua and Barbuda
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• [NEW] Planting for the Future: Native Plants, Green Jobs, and Equitable Climate Resilience
  6 June 2024 / 1:00 pm ET / 10:00 am PT / Virtual
  U.S. Environmental Protection Agency

• Maximizing the Impact of Natural Climate Solutions
  11 June 2024 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Washington DC & Virtual
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• Microgrid Implementation and Considerations for Improved Energy Resilience
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  SERDP & ESTCP

• Climate Crossroads Summit 2024
  16-17 July 2024 / Washington, DC & Virtual
National Academies of Sciences, Engineering, and Medicine

  30 July 2024 / Washington, DC
  Environmental and Energy Study Institute

- **Development of Assessment Tools for Downscaled Global Climate Models**
  22 August 2024 / 12:00 pm ET / 9:00 am PT / Virtual
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  3-6 December 2024 / Washington, DC
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  23-25 January 2025 / Miami, FL
  Florida International University and Partners

**OPPORTUNITIES**

- **[NEW] Call for Experts: Evaluation of the Mission and Goals of ARPA-E**
  National Academies of Sciences, Engineering, and Medicine / **Recommendations due 24 May 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.**

- **Funding Opportunity: Environmental and Climate Justice Climate Change Program**
  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 and a special section of images from around the globe from the NASA Earth Observatory.

Thanks to everyone who sends in updates! Have a nice weekend,

Kristen

Kristen M Fletcher
Faculty Associate-Research | Naval Postgraduate School
Energy Academic Group | Climate & Security Network
Office: 831.656.6195 | Cell: 401.714.4686
kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 17 May 2024

Special Section: Images from NASA Earth Observatory
- Smoke and Fire in British Columbia
- Hurricanes Have Left their Mark on Louisiana’s Wetlands
- Colorful Celtic Sea
- Water Levels Plunge in Philippine Reservoir
- One of the Largest Batteries in the World
- Floods Engulf Porto Alegre

NEWS
- How Turkey became Putin’s ‘pit stop’ for selling camouflaged fuel to the EU
  17 May 2024, E&E News

- Climate, Conflict, and Changing Demographics Command Attention in New Global Health Security Report
  16 May 2024, New Security Beat

- War and climate change are overwhelming Somalia
  16 May 2024, The Economist

- Defense, Interior Agree to Decade-Long Partnership for Conserving Wildlife, Supporting Military Readiness
  16 May 2024, U.S. Department of Defense Release

- Sizzling oceans tee up record-shattering summer for U.S.
  16 May 2024, Axios

- A water war is brewing between the U.S. and Mexico. Here’s why.
  16 May 2024, The Washington Post

- Analysis: Benefits of UK ‘sustainable aviation fuel’ will be wiped out by rising demand
  15 May 2024, Carbon Brief

- The Quad, Maritime Security, and Climate Change
Renewable records and green awards: Positive environmental stories from 2024
15 May 2024, Euronews

DOD, Interagency Partners Designate 5 New Sentinel Landscapes
15 May 2024, U.S. Department of Defense Release

Weather-related disasters continue to displace more than conflict and violence
15 May 2024, Down to Earth

Florida shifts focus from climate change to energy security in new legislation
14 May 2024, Environmental Health Sciences

UK is failing to put climate crisis at centre of national security measures, MPs told
14 May 2024, The Guardian

Legal challenge made over ‘net zero’ power plant
14 May 2024, BBC

America’s grid isn’t ready for a renewable future. A new federal rule could change that.
14 May 2024

SIPRI and FES co-host climate, peace and security policy briefings in Berlin
14 May 2024, Stockholm International Peace Research Institute

Climate-change research project aboard USS Hornet paused for environmental review
14 May 2024, Phys.org

Qatar’s Minister of Environment and Climate Change Champions Nature-Based Solutions at UN Forum
14 May 2024, Environment + Energy Leader

Historic ocean heat wave heralds dangerous hurricane season
13 May 2024, E&E News

Michigan wants fossil fuel companies to pay for climate change damages
13 May 2024, Grist

Key Takeaways from the Innovations in Climate Resilience Conference
13 May 2024, New Security Beat

Why the US military is betting on decades-old climate tech
10 May 2024, Semafor

Interior CS Kindiki Declares Climate Change A National Security Threat (Kenya)
10 May 2024, Citizen Digital

US Department Of Defense Catches Green Hydrogen Fever
10 May 2024, Clean Technica

The world is obsessed with forests’ climate benefits. Here’s the Problem.
10 May 2024, Grist

- **NRL Selected to Lead Critical Science Mission on Wildfires and Smoke**
  9 May 2024, U.S. Navy Release

- **Risk professionals take on emergent AI, climate change and global conflict**
  9 May 2024, The Wall Street Journal

- **Human rights court mulls rules on climate change action**
  9 May 2024, Axios

- **How war impacts wildlife, water and willingness to fight climate change**
  8 May 2024, Niagara-on-the-Lake Local (Canada)

- **We asked 380 top climate scientists what they felt about the future...**
  8 May 2024, The Guardian

- **Wildfire: Assessing and quantifying risk exposure and mitigation across western utilities**
  7 May 2024, Stanford Woods Institute for the Environment

- **Sustainability Accelerator announces first executive director**
  6 May 2024, Stanford Doerr School of Sustainability

- **U.S. officials wary of Chinese plans for floating nuclear plants**
  2 May 2024, The Washington Post

**REPORTS, PUBLICATIONS & OTHER RESOURCES**

- **Paper:** Identifying Climate Targets in National Laws and Policies using Machine Learning
  International Conference on Learning Representations, May 2024

- **Report/Tool:** Longer, More Intense Fire Weather Seasons
  Climate Central, 14 May 2024

- **Fact Sheet:** Climate Peace and Security: Myanmar
  Stockholm International Peace Research Institute, May 2024

- **Monthly Report:** April 2024 Update: Military Responses to Climate Hazards (MiRCH) Tracker
  The Center for Climate & Security, 14 May 2024

- **Video:** Budgeting for the Storm: Climate Change and the Costs to National Security
  U.S. Senate Committee on the Budget, 15 May 2024

- **Report:** National Intelligence Estimate: Dynamics Shaping Global Health Security In the Next Decade
  National Intelligence Council, December 2023/Approved for Public Release April 2024

- **Podcast:** From Polar Presence to Port Security: A Conversation with the Coast Guard Commandant
  War on the Rocks, 10 May 2024
• **Article:** The challenges of the increasing institutionalization of climate security  
PLOS Climate, 25 April 2024

• **Report:** U.S. International Climate Finance: FY2025  
Congressional Research Service, 6 May 2024

• **Podcast:** Interdisciplinary approaches to food security and climate change  
Times Higher Education Connect, 14 May 2024

• **Policy Brief:** The exploitation of climate chaos, confusion and change – a new frontier for P/CVE strategic communication  
International Centre for Counter-Terrorism, May 2024

• **Commentary:** Civil Society and the Energy Transition: Fostering Multi-Stakeholder Dialogue in Germany and Italy  
Istituto Affari Internazionali, May 2024

• **Article:** The Sino-Russian Land Grain Corridor and China’s Quest for Food Security  
Asia Society Policy Institute, 8 May 2024

• **Article:** Everything Everywhere All at Once: Wars, Climate Change, Natural Disasters, Coups and Economic Collapse  

• **Monthly Report:** April 2024 Global Climate Report  
National Centers for Environmental Information, May 2024

• **Report:** State of the Climate in Latin America and the Caribbean 2023  
World Meteorological Organization, May 2024

• **Essay:** Energy Politics in the Horn of Africa: A Path Forward for American Foreign Policy  
Hoover Institution, Stanford University, May 2024

**EVENTS**

• [NEW] **What is Climate Foreign Policy? A Transatlantic Perspective**  
15 May 2024 / 11 am – 12:15 pm ET / 8 – 9:15 am PT / Washington DC & Virtual  
Carnegie Endowment for International Peace

• [NEW] **Pollution and Health: Generating Evidence and Catalyzing Action to Advance Human and Planetary Health**  
20-21 May 2024 / Palo Alto, CA  
Stanford Graduate School of Business

• **Climate Leadership Conference**  
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The Climate Registry and partners

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• [NEW] **Building clean energy infrastructure: Roadblocks, tradeoffs, and solutions**
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  Naval Undersea Warfare Center Division, Newport / Comments due 5 June 2024.

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  National Academies of Sciences, Engineering, and Medicine Gulf Research Program / Submissions due 26 June 2024.

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Dear CSN Members,

Below is the climate security update for this week and a special section on the Advisory Opinion on climate change from the International Tribunal of the Law of the Sea (ITLOS), the first of its kind from an international tribunal. Issued on Tuesday, the key findings are:

- **State parties to UNCLOS are obligated to prevent, reduce and control GHG emissions** as marine pollution and to protect and preserve the marine environment; necessary measures are determined objectively and take into account the best available science.
- **Complying with the Paris Agreement does not equal compliance with UNCLOS responsibilities.**
- This is the first of three advisory opinions expected this year; we await advisory opinions from the **Inter-American Court of Human Rights and the International Court of Justice**.

While we know the Advisory Opinion applies to the 168 States that are parties to UNCLOS, a remaining question is the impact of this Advisory Opinion to States, such as the U.S., that are not parties to UNCLOS but recognize many of its provisions as customary international law.

Hope everyone has a nice weekend and, in the U.S., a happy Memorial Day!

Kristen

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NPS Climate & Security Network Weekly Update: 24 May 2024

**Special Section: Advisory Opinion, Case No. 31, of the International Tribunal of the Law of the Sea**

- **ITLOS**
  - [Advisory Opinion](#) (May 2024)
  - [Press Release](#) (May 2024)
  - [Request for Advisory Opinion](#) (December 2022)
- Sabin Center for Climate Change Law: [ITLOS Advisory Opinion on Climate Change: Summary of Briefs and Statements Submitted to the Tribunal](#) (October 2023)
- Verfassungsblog: [The ITLOS Advisory Opinion on Climate Change](#)
- Inside Climate News: ‘Historic’ Advisory Opinion on Climate Change Says Countries Must Prevent Greenhouse Gases From Harming Oceans
- Grist: [Small island nations get big climate victory in international maritime court](#)
- Just Security: [Q&A: ‘The Oceans Court’ Issues Landmark Advisory Opinion on Climate Change](#)
- Al Jazeera: [Island states win historic climate case in world oceans court](#)
- The New York Times: [Top Oceans Court Says Nations Must Reduce Greenhouse Gas Emissions](#)
- Forbes: **International Court Says Countries Must Reduce Greenhouse Gas To Protect Marine Environment**

**NEWS**

- **The WEFE nexus and the climate crisis: Major challenges, great opportunities**
  23 May 2024, CGIAR

- **Time to create a new quad for the Arctic Pacific to counter China and Russia**
  23 May 2024, Breaking Defense

- **As reservoirs go dry, Mexico City and Bogotá are staring down ‘Day Zero’**
  23 May 2024, Grist

- **New NASA Mission Tracks Microscopic Organisms in the Ocean and Tiny Particles in the Air to Monitor Climate Change**
  23 May 2024, Inside Climate News

- **Sites with radioactive material more vulnerable as climate change increases wildfire, flood risks**
  22 May 2024, The Washington Post

- **‘Climate change is on the ballot’: Prime Minister calls surprise summer UK election**
  22 May 2024, Business Green

- **A new age of sail begins**
  21 May 2024, The Economist

- **Building a Response to Environmental Violence**
  21 May 2024, New Security Beat

- **Integrating Climate, Peace and Security in MENA Countries’ NDCs**
  20 May 2024, New Security Beat

- **Climate Policy: A Glass Half-Full or Half-Empty**
  20 May 2024, Forbes

- **A new Myanmar is emerging from conflict and climate change**
  20 May 2024, Nikkei Asia

- **Judge Dismisses California Kids’ Climate Lawsuit. They Plan to Try Again**
  17 May 2024, Homeland Security Today

- **Ukraine’s Energy Systems Under Attack This Spring – Again**
  16 May 2024, Wilson Center

- **CCS Director Testifies Before US Senate and UK Parliament on Climate Security**
  16 May 2024, The Center for Climate & Security

- **Naval Station Norfolk is being impacted by climate change, flooding; lawmakers are discussing initiatives**
  16 May 2024, 13 News Now (Norfolk, VA)
• **Kenyan leader seeks military support in combating climate change**
  15 May 2024, World News China

• **John Kerry shares his ‘unfettered’ optimism on climate**
  14 May 2024, Stanford Report

• **Who is most to blame for climate change? Regardless of the answer, global cooperation is critical**
  13 May 2024, Salon

REPORTS, PUBLICATIONS & OTHER RESOURCES

• **Podcast: How clean is green hydrogen?**
  MIT Climate Portal, 9 May 2024

• **Article: Large-scale green grabbing for wind and solar photovoltaic development in Brazil**
  Nature Sustainability, 13 May 2024

• **Online Resource: The Sectoral Solution to Climate Change**
  UN Environment Programme, May 2024

• **Article: Global projections of heat exposure of older adults**
  Nature Communications, 14 May 2024

• **Article: Carbon pricing and system reliability impacts on pathways to universal electricity access in Africa**
  Nature Communications, 16 May 2024

• **Article: International shipping in a world below 2 °C**
  Nature Climate Change, 22 May 2024

• **Article: Multi-decadal climate services help farmers assess and manage future risks**
  Nature Climate Change, 21 May 2024

• **Article: Estimation of useful-stage energy returns on investment for fossil fuels and implications for renewable energy systems**
  Nature Energy, 20 May 2024

• **Special Report: A program meant to help developing nations fight climate change is funneling billions of dollars back to rich countries**
  Reuters, 22 May 2024

• **Newsletter: The Corps Environment**
  U.S. Army Corps of Engineers, May 2024

• **Article: Critical slowing down of the Amazon forest after increased drought occurrence**
  Proceedings of the National Academy of Sciences, 20 May 2024

• **Article: Experts: What are the biggest geopolitical risks to climate action in 2024?**
  Carbon Brief, 20 May 2024

• **Video: Nothing Grows Forever: The lessons to learn from nature**
Al Jazeera, May 2024

- **Report:** [Panama, 2024: Tight Water-use Margins Limit Canal Operations During Drought](#)
  Global Water Security Center, 14 May 2024

- **Article:** [Global Change Research for a More Secure World](#)
  Eos, 14 May 2024

- **Policy Brief:** [Bridging the gap in climate change financing to violent conflict affected areas](#)
  Danish Institute for International Studies, 22 May 2024

- **Report:** [Burning Ground: Tackling Climate Change and Conflict in South-central Somalia](#)
  Stockholm International Peace Research Institute, May 2024

- **Report:** [Climate Change and Human Health: A Synthesis of Scientific Research and State Obligations Under International Law](#)
  Sabin Center for Climate Change Law, May 2024

- **Report:** [Urban planning at the heart of increasingly severe East African flood impacts in a warming world](#)
  Imperial College London, May 2024

- **Article:** [CMIP6 Models Rarely Simulate Antarctic Winter Sea-Ice Anomalies as Large as Observed in 2023](#)
  American Geophysical Union, 20 May 2024

- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)
  Naval Postgraduate School, 1 May 2023

- **Testimony:** [Investing in Defense to Prioritize Peace: Climate Challenges, Priorities and the Path Forward](#)
  American Enterprise Institute, May 2024

- **Report:** [The State of the World’s Human Rights: April 2024](#)
  Amnesty International, April 2024

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- **Climate change and environmental legislation in support of the delivery of the new Programme of Action for SIDS**
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- **[NEW] Press Briefing: War and Climate Change**
  29 May 2024 / 12 pm ET / 9 am PT / Virtual
  Covering Climate Now
  4 June 2024 / 11 am – 12:30 pm ET / 8 – 9:30 am PT / Virtual
  University of Oxford and Partners
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• Building Capacity for the U.S. Mineral Resources Workforce: Proceedings Release Webinar
  20 June 2024 / 12 – 1 pm ET / 9 – 10 am PT / Virtual
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NPS Climate & Security Network Weekly Update: 31 May 2024

**Special Section: Water Security Issues Around the Globe**

- Inside Climate News: [The Other Border Dispute Is Over an 80-Year-Old Water Treaty](#)
- AP News: [Farmers in India are weary of politicians’ lackluster response to their climate-driven water crisis](#)
- Center for Strategic & International Studies: [The U.S. Global Food Security and Global Water Strategies: Increasing Coherence and Navigating Challenges](#)
- Washington Post: [Mexico City and millions of its residents could run out of water in weeks](#)
- Axios: [Climate change amplifying Mexico’s heat and drought crisis](#)
- Climate Diplomacy: [Promoting water tenure for food security, climate resilience and equity](#)
- Wilson Center: [Water security is climate security (video)](#)
- Additional Analysis & Resources: [Global Water Security Center](#)

**NEWS**

- [Vermont becomes first state to require oil companies to pay for climate change damage](#)
  31 May 2024, The Hill
- [After two-year delay, developed countries transfer $100 billion in climate finance to Global South](#)
  31 May 2024, La Croix International
- [Wartime emissions rage, but no one’s counting them](#)
  30 May 2024, E&E News
- [Why any estimate of the cost of climate change will be flawed](#)
  30 May 2024, The Economist
- [Deep sea grid interconnectors – the vital link between renewables and energy security](#)
  30 May 2024, Nexans
• **Yemen’s fishermen left high and dry by conflict, extreme weather**  
  29 May 2024, Context

• **Maritime Disruptions Cast Shadow on Global Energy Security**  
  29 May 2024, Asharq Al-Awsat (Turkey)

• **Panama Competes First Climate-Related Relocation**  
  29 May 2024, Human Rights Watch

• **The US Department of Defense’s Role in Integrating Climate Change into Security Planning**  
  28 May 2024, New Security Beat

• **Europe Can Reap Sizable Energy Security Rewards by Scaling Up Climate Action**  
  28 May 2024, International Monetary Fund

• **No One Really Understands Clouds**  
  28 May 2024, The Atlantic

• **Carbon Offsets, a Much-Criticized Climate Tool, Get Federal Guidelines**  
  28 May 2024, The New York Times

• **Researchers explore mining seawater for critical metals**  
  27 May 2024, Grist

• **NASA launches ground-breaking climate change satellite**  
  25 May 2024, Phys.org

• **Better real-time data for the country’s congested transmission lines**  
  28 May 2024, Canary Media

• **The climate refugee crisis is here**  
  28 May 2024, The Washington Post

• **The EU Africa migration agenda – driving a new migration partnership forward**  
  24 May 2024, Overseas Development Institute

• **Learn from the experts: How we move beyond emergency relief in fragile and conflict-affected settings**  
  24 May 2024, CGIAR

• **19 states ask Supreme Court to topple climate lawsuits**  
  23 May 2024, E&E News  
  ○ **Motion Filed by 19 States**

• **AI is an energy hog. This is what it means for climate change.**  
  23 May 2024, MIT Technology Review

• **UCLA to lead the Center of Excellence for Heat Resilient Communities**  
  20 May 2024, UCLA release
State of the Order: Global conflict is continuing to reshape the global order – and so is climate change
17 May 2024, Atlantic Council

REPORTS, PUBLICATIONS & OTHER RESOURCES

- Policy Brief: Breaking Silos: Integrated Solutions for Climate Change, Security, and Displacement in Guatemala
  CGIAR, May 2024

- Research Articles: The ocean-climate-cryosphere nexus
  European Commission, May 2024

- Brief: How Japan Thinks about Energy Security
  Center for Strategic & International Studies, May 2024

- Article: Multilateral peace operations in 2023: Developments and trends
  Stockholm International Peace Research Institute, 29 May 2024

- Report: Policy Interventions to Address Climate and Food-Related Instability
  Center for Climate & Security, May 2024

- Podcast: The View from the Frontlines: Nexus Challenges in South Asia
  Nexus25, 30 May 2024

- Podcast: A Landmark Court Opinion on the Ocean and Climate Change
  Just Security, 28 May 2024

- Book: Climate Security and the Military: Concepts, Strategies, and Partnerships
  Clingendael, May 2024

- Podcast: It takes a climate-smart village: Peace-positive approaches for sustainable resilience
  Climate Diplomacy, 31 May 2024

- Report: Shaping the future of Small Island Developing States
  Overseas Development Institute, May 2024

- Article: Trust in climate science and climate scientists: A narrative review
  PLOS Climate, 23 May 2024

- Article: Biosphere Futures: a database of social-ecological scenarios
  Ecology & Society, May 2024

- Article: Climate Change, the Fountainhead of Great Power Cooperation
  US Army Command and General Staff College Press, May 2024
  Note: Article is on Journal page 85, pdf page 101.

- Report: Decarbonization: Opportunities Exist to Improve the Department of Energy’s Management of Risks to Carbon Capture Projects
  U.S. Government Accountability Office, May 2024

- Report: The Climate Change-Conflict-Displacement Nexus in the MENA Region
• **Report:** [Attacks on Ukraine’s Electric Grid: Insights for U.S. Infrastructure Security and Resilience](https://www.crs.gov/reports/2024/R47039)
  Congressional Research Service, 17 May 2024

• **Report:** [Coast Guard Polar Security Cutter (Polar Icebreaker) Program: Background and Issues for Congress](https://www.crs.gov/reports/2024/R46235)
  Congressional Research Service, 22 May 2024

• **Article:** [Climate change and peacebuilding: sub-themes of an emerging research agenda](https://www.cairninfo.fr/revues-international-affairs/2024/204008903.pdf)
  International Affairs, 7 May 2024

• **Article:** [Metal mobilization from thawing permafrost to aquatic ecosystems is driving rusting of Arctic streams](https://www.nature.com/articles/s43620-024-00299-0)
  Communications Earth & Environment, 20 May 2024

• **Resource:** [Environmental Migration](https://migrationdata.org/)
  Migration Data Portal, May 2024

• **Article:** [Rethinking Energy Geopolitics: Towards a Geopolitical Economy of Global Energy Transformation](https://geopolitics.org/)
  Geopolitics, 12 May 2024

• **Interview:** [UN Chief Guterres on climate change and conflicts around the world](https://www.nhk.or.jp/)
  NHK News (Japan), 30 May 2024

• **Issue Brief:** [Enhancing Access to Urban Climate Finance: Learnings from Four Cities in India](https://www.orf.org.in/)
  Observer Research Foundation, 22 May 2024

• **Podcast:** [Is it safe to store CO2 underground?](https://www.mitclimateportal.org/)
  MIT Climate Portal, 23 May 2024

• **Summary:** [Climate Compass: Navigating Mediation Challenges in a Warming World](https://www.bef.org/)
  Berghof Foundation, May 2024

**EVENTS**

• **[NEW] Changing of Local Landscapes: Long-term Recovery from Natural Disasters**
  3 June 2024 / 1 – 5 pm ET / 10 am – 2 pm PT / Washington DC & Virtual
  National Academy of Sciences, Engineering and Medicine

  4 June 2024 / 11 am – 12:30 pm ET / 8 – 9:30 am PT / Virtual
  University of Oxford and Partners
  • Info on report

• **Hydrogen Growth Potential: Demand, Supply, and the Value of Market Data**
  6 June 2024 / 8:30 – 10:30 am ET / Washington DC
  Saoradh Enterprise Partners
Focus on Recruiting Emerging Climate and Adaptation Scientists and Transformers (FORECAST)
6 June 2024 / 4:00 pm ET / 1:00 pm PT / Virtual
National Science Foundation
  • Related Funding Announcement

Planting for the Future: Native Plants, Green Jobs, and Equitable Climate Resilience
6 June 2024 / 1:00 pm ET / 10:00 am PT / Virtual
U.S. Environmental Protection Agency

[NEW] The Unmet Needs of Environmentally Threatened Alaska Native Villages: Assessment and Recommendations
10 June 2024 / 3 pm ET / 12 pm PT / Virtual
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11 June 2024 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Washington DC & Virtual
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SERDP & ESTCP

20 June 2024 / 12 – 1 pm ET / 9 – 10 am PT / Virtual
National Academies of Sciences, Engineering, and Medicine

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22 August 2024 / 12:00 pm ET / 9:00 am PT / Virtual
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Macroeconomics Implications of Decarbonization Policies and Actions
12 – 13 September 2024 / Washington DC & Virtual
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- **[NEW] Optimizing Ocean Observing Networks for Detecting the Coastal Climate Signal Workshop**  
  23-25 September 2024 / Boulder, CO & Virtual  
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- **DOD Energy & Environment Innovation Symposium**  
  3-6 December 2024 / Washington, DC  
  SERDP, ESTCP, OECIF, OEPF

- **17th International Conference on Climate Change: Impacts & Responses**  
  23-25 January 2025 / Miami, FL  
  Florida International University and Partners

**OPPORTUNITIES**

- **[NEW] Call for Public Comment on Draft Prospectus of the Sixth National Climate Assessment**  
  U.S. Global Change Research Program / **Comments due 7 June 2024.**  
  - **Federal Register Notice**

  Department of Defense / **Applications due 18 June 2024.**

- **Request for Applications: Workforce Development for the Energy Transition**  
  National Academies of Sciences, Engineering, and Medicine Gulf Research Program / **Submissions due 26 June 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.**

- **Funding Opportunity: Environmental and Climate Justice Climate Change Program**  
  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 and a special section on oceans and climate change in honor of World Ocean Day on Saturday.

Also, here is an interesting perspective on the D Day anniversary:

- **D-Day shipwrecks were a WW2 time capsule – now they are home to rich ocean-floor life**
  5 June 2024, BBC

Finally, the CSN is excited to **congratulate U.S. Army Major Eric Czaja**, a CSN member and NPS Defense Analysis student who received the **Award for Outstanding Army Student** from the Association of the United States Army, General Joseph W. Stillwell Chapter. Congratulations, Major Czaja!

Hope everyone has a nice weekend!

Kristen

Kristen M Fletcher
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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 7 June 2024

**Special Section: Oceans & Climate Change**
- Axios: [Oceans’ record heat streak reaches 13 months](#)
- Salon: [The world's oceans just broke an important climate change record](#)
- UN Foundation: [5 Things to Know About Climate Change and the Ocean](#)
- Down to Earth: [UNESCO’s State of Ocean Report highlights key knowledge gaps in research & data on spiking ocean warming](#)
- Science News: [Will stashing more CO\(_2\) in the ocean help slow climate change?](#)
- Smithsonian: [How a Trove of Whaling Logbooks Will Help Scientists Understand Our Changing Climate](#)
- Forbes: [World Oceans Day: Saving Indonesia’s Cool Corals In A Warming World](#)
- Stanford Report: [Ask a scientist: Hot Oceans](#)
- [World Ocean Day Information](#)

**NEWS**
- [The mysterious X factor behind a year of unbelievable heat](#)
  6 June 2024, Grist
- [West African nations call for firms to be able to offset carbon](#)
  6 June 2024, Reuters
- [Investment in clean energy this year is set to be twice the amount going to fossil fuels](#)
  6 June 2024, International Energy Agency Release
• **UN Secretary-General Calls for Ban on Fossil Fuel Advertising, Says Next 18 Months Are Critical for Climate Action**  
  6 June 2024, Inside Climate News

• **Climate-Related Financial Risk: How, When And For Whom?**  
  6 June 2024, Climate Policy Initiative

• **Why climate change in the Middle East should be a foreign policy priority**  
  6 June 2024, Manara Magazine (UK)

• **Hottest May on record spurs call for climate action**  
  5 June 2024, European Commission

• **New map shows vast potential for geothermal energy beneath entire US**  
  4 June 2024, The Hill

• **As seas rise, the relocation of Caribbean islanders has begun**  
  4 June 2024, The Economist

• **Covid learnings, Ukraine war, and climate change reshape tech supply chains**  
  4 June 2024, Express Computer

• **Can Mexico’s Sheinbaum, a climate scientist, shake Lopez Obrador’s oil legacy?**  
  4 June 2024, Reuters

• **The Future of Central Asian Water Diplomacy**  
  4 June 2024, New Security Beat

• **Mexico elects a climate scientist as president – but will politics temper her green ambition?**  
  3 June 2024, Climate Home News

• **No physics? No problem. AI weather forecasting is already making huge strides**  
  3 June 2024, ARS Technica

• **Light-water SMRs here to stay despite early challenges: DOE lab nuclear scientist**  
  3 June 2024, Utility Dive

• **“Great enabler of climate action” – UN urges Bonn progress on new finance goal**  
  3 June 2024, Climate Home News

• **Climate change, El Niño and infrastructure failures behind massive floods in southern Brazil**  
  3 June 2024, World Weather Attribution

• **The U.S. Drought Monitor is a critical tool for the arid West. Can it keep up with climate change?**  
  3 June 2024, Los Angeles Times

• **Roundtable on Energy Resilience And Security For Territories And Islanded Communities**  
  3 June 2024, National Governors Association
• **On beaches of Gaza and Tel Aviv, two tales of one heatwave**
  31 May 2024, Climate Home News

• **Brazil Floods Displace 600,000 in World's Latest Mass Climate Migration**
  31 May 2024, Bloomberg

• **International Court Extends Deadline For Climate Change Opinion Responses**
  31 May 2024, Forbes

• **Cabo Verde beats back climate change through South-South cooperation**
  30 May 2024, Global Issues

• **Preparing for urban floods with an eye toward equity**
  29 May 2024, Stanford Report

• **Drought, Conflict and the Circulation of Climate Knowledge in Somalia**
  28 May 2024, Harvard Center for International Development

• **How can water security empower refugee and host communities?**
  28 May 2024, CGIAR

• **Climate Change and Red Sea Turmoil to Boost Arctic Shipping**
  23 May 2024, gCaptain

**REPORTS, PUBLICATIONS & OTHER RESOURCES**

• **Report:** [Levelized Cost of Energy](#)
  Lazard, June 2024

• **Report:** [Climate Change, Slow-Onset Disasters, and the Federal Emergency Management Agency](#)
  Congressional Research Service, 28 May 2024

• **Article:** [Nationalist environmentalism: can nationalism fuel climate action?](#)
  Barcelona Centre for International Affairs, May 2024

• **Video:** [What's next for the European Green Deal?](#)
  Al Jazeera, 6 June 2024

• **Paper:** [Greening AI: A Policy Agenda for the Artificial Intelligence and Energy Revolutions](#)
  Tony Blair Institute for Global Change, 29 May 2024

• **Report:** [Migration in the Context of Climate and Environmental Changes within Central Asia and to the European Union and the Russian Federation](#)
  UN Migration, May 2024

• **Policy Brief:** [Climate Change-Induced Community Relocation in Fiji: Challenges and Ways Forward](#)
  Toda Peace Institute, May 2024

• **Article:** [Energy transitioning: communicating risk to decision-makers](#)
Journal of Risk Research, May 2024

- **Article:** Rethinking energy planning to mitigate the impacts of African hydropower  
  Nature Sustainability, 4 June 2024

- **Podcast:** Wolves, water and global weirding  
  Outside/In (NPR), 6 June 2024

- **Podcast:** Rekindling Our Relationship With Wildfire  
  Climate One, 7 June 2024

- **Podcast:** E9: Slow carbon, fast carbon  
  MIT Climate Portal, 30 May 2024

- **Podcast:** E10: 2°C: the story of the global climate goal  
  MIT Climate Portal, 6 June 2024

- **Report:** Climate Migrants: Dominican Republic  
  World Bank, June 2024

- **Report:** Seas of Sustenance: Navigating ‘Blue food’ for Indo-Pacific Food Security  
  Observer Research Foundation, 5 June 2024

- **Issue Brief:** South Korea’s Road to Carbon Neutrality: Solutions and Obstacles  
  Institute for Security & Development Policy, May 2024

- **Report:** World Energy Investment 2024  
  International Energy Agency, June 2024

- **Policy Brief:** The Kingdom of Sweden: A Long History of Sustainable Practices  
  Institute for Security & Development Policy, May 2024

- **Article:** Unnatural Selection  
  Grist and Virginia Quarterly Review, 6 June 2024

**EVENTS**

- **The Unmet Needs of Environmentally Threatened Alaska Native Villages: Assessment and Recommendations**  
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  11 June 2024 / 1 – 2:30 pm ET / 10 – 11:30 am PT / Washington DC & Virtual  
  Environmental and Energy Study Institute

- **[NEW] Perspectives and pathways toward net-zero: A conversation with Eirik Waerness**  
  12 June 2024 / 11 am ET / 8 am PT / Virtual  
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• [NEW] The Social-Ecological Consequences of Future Wildfire in the West: A Workshop
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  Journal of the Acoustical Society of America / **Submissions due 30 June 2024.**

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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 and a special section on how climate change is playing out in the context of major elections around the world.

You may notice that I avoid political articles for the most part; I figure climate change is politicized enough and we all get that in lots of other places. However, the political winds will affect how we do our work in the climate security area so I’ve added perspectives from around the globe in this “super-election year.”

Hope everyone has a nice weekend!

Kristen

Kristen M Fletcher
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Energy Academic Group | Climate & Security Network
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kristen.fletcher@nps.edu

NPS Climate & Security Network Weekly Update: 14 June 2024

Special Section: Climate Change & 2024 Elections

- The Guardian (Australia): Barnaby Joyce and Keith Pitt call on Coalition to abandon Paris agreement as Albanese says Dutton ‘all negativity and no plan’
- Forbes: Mexico’s New Climate Scientist President – And The Energy Pressures She’ll Face
- BBC: Claudia Sheinbaum: What a climate-scientists turned president might mean for global efforts to tackle climate change
- The Conversation: Why India didn’t have the ‘climate election’ it needed, even amid a lethal heatwave
- The Writ: Will climate change be a ballot box issue?
- Nature: What the science of elections can reveal in this super-election year

NEWS

- Russia’s war with Ukraine accelerating global climate emergency, report shows
  13 June 2024, The Guardian

- UN regional climate weeks in the global south must be reinstated
  13 June 2024, Devex

- Climate Challenges & Opportunities in Morocco and Beyond
  13 June 2024, Just Security

- Conflict, persecution, climate crisis drive surge in global forced displacement
  13 June 2024, Voice of America Europe

- Will Climate Facts Or Climate Myths Determine Our Future?
12 June 2024, Forbes

- **How the Inter-American Court Could Advance Protection for Climate-Displaced Individuals**
  12 June 2024, Just Security

- **Swiss parliament defies ECHR on climate women’s case**
  12 June 2024, BBC

- **Russia faces $32 billion bill for carbon emissions from Ukraine war**
  12 June 2024, New Scientist

  11 June 2024, Istituto Analisi Relazioni Internazionali

- **Middle East, Mediterranean, and North Africa experiencing climate-induced extreme heat**
  11 June 2024, Climate Central

- **Methane Emissions: Can the United States and China Find Common Ground?**
  11 June 2024, New Security Beat

- **Environmental Impact of War and Military Movements for Peace**
  11 June 2024, Forbes

- **A Western US energy market would boost clean energy. Will it happen?**
  10 June 2024, Canary Media

- **Book of Xi’s discourses on national energy security published**
  10 June 2024, XinhuaNet

- **What is ‘nature-based carbon removal’ and is it any better than carbon offsets?**
  7 June 2024, The Verge

- **NOAA, DOE sign agreement to advance marine carbon dioxide removal**
  6 June 2024, National Oceanic and Atmospheric Administration Release

- **Why Climate Science Matters for International Law**
  6 June 2024, Sabin Center for Climate Change Law

- **NATO scientists start research mission in the Arctic Sea**
  6 June 2024, NATO Release

- **Climate change in the MENA region sees intensification of dust storms**
  6 June 2024, The New Arab

- **Can Climate Refugees Find a Home In The Metaverse?**
  5 June 2024, Center for International Policy

- **Finding Light in Dark Places: Specific Obligations for Climate Change and Ocean Acidification Mitigation**
4 June 2024, Sabin Center for Climate Change Law

- **Hype or Reality: Will AI Really Solve Climate Change?**
  4 June 2024, Forbes

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Reports from the National Centers for Environmental Information:**
  - Assessing the Global Climate in May 2024 (June 2024)
  - Assessing the U.S. Climate in May 2024 (June 2024)

- **Brief: Briefer: Litio 2040: Sustainably Developing Mexico’s Lithium from Ground to Grid**
  Center for Climate & Security, 11 June 2024

- **Reports from the Planetary Security Initiative:**
  - Can Europe green its militaries? (June 2024)
  - Updated map of climate security practices (May 2024)

  U.S. Government Accountability Office, 3 June 2024

- **Policy Brief: Toward an Indo-German Green Strategic Partnership**
  German Council on Foreign Relations, 4 June 2024

- **Policy Brief: Towards a Shared, Clean Energy Space in the Euro-Med: Outlining Priorities for the Next European Commission**
  EuroMeSCo, June 2024

- **Report: Climate Damage Caused by Russia’s War in Ukraine**
  Initiative on GHG Accounting of War and Partners, June 2024

- **Roundtable Discussion: How Can The Security Industry Contribute To Protecting The Environment?**
  Security Informed, May 2024

- **Reports from Congressional Research Service:**
  - Petroleum-Equivalent Fuel Economy of Electric Vehicles: In Brief (10 June 2024)
  - Enhanced Geothermal Systems: Frequently Asked Questions (7 June 2024)

- **Policy Memo: What will it take to make the MENA region a renewable energy powerhouse?**
  Atlantic Council, 5 June 2024

- **Article: Concurrent Challenges of Conflict and Climate Change in Myanmar**
  Georgetown Journal of International Affairs, 9 June 2024

- **Commentary: The Italian G7 Presidency: Spearheading Progress on Food Systems in Africa**
  Istituto Affari Internazionali, June 2024

- **Video: How Can Policy Mitigate Climate Vulnerability in the Middle East?**
  Carnegie Endowment, 11 June 2024
• **Report:** [Competition, Climate and Resilience: Securing the EV Supply Chain in America](#)  
  Wilson Center, June 2024

• **Working Paper:** [The El Niño Southern Oscillation and Geopolitical Risk](#)  
  Peterson Institute for International Economics, May 2024

• **Report:** [Pest and Pathogen Threats to Food Security](#)  
  Council on Strategic Risks, 13 June 2024

• **Article:** [Does the purchase of voluntary renewable energy certificates lead to emission reductions? A review of studies quantifying the impact](#)  
  Social Science Research Network, May 2024

• **Commentary:** [How the G7 Can Effectively Back Africa’s Twin Goal of Energy Access and Transition](#)  
  Istituto Affari Internazionali, June 2024

• **Article:** [Skillful seasonal prediction of wind energy resources in the contiguous United States](#)  
  Nature Communications / Earth & Environment, 11 June 2024

• **Article:** [Decarbonization potential of floating solar photovoltaics on lakes worldwide](#)  
  Nature Water, 4 June 2024

• **Article:** [Climate Vulnerability in Libya: Building Resilience Through Local Empowerment](#)  
  Carnegie Endowment for International Peace, 6 June 2024

• **Issue Brief:** [Toward Smart Sustainable Cities in the MENA Region](#)  
  Baker Institute for Public Policy, 6 June 2024

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Dear CSN Members,

Below is the climate security update for this week and a special section on the outcomes of the Bonn climate talks that occurred over the last few weeks.

I’m also pleased to share an article co-authored by CSN Member, Erik Patton:

- **Article:** Fremen Stillsuits and Heated Bubble Gyms: Preparing the Army to Fight and Win on a Rapidly Warming Battlefield
  19 June 2024, Modern War Institute at West Point

Hope everyone has a nice weekend!

Kristen

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**NPS Climate & Security Network Weekly Update: 21 June 2024**

**Special Section: Bonn Climate Talks**

- Carbon Brief: [Bonn climate talks: Key outcomes from the June 2024 UN climate conference](#)
- Center for International Environmental Law: [UN Climate Talks in Bonn Fail to Put World on Path for Success at COP29](#)
- LeMonde (France): [UN climate chief deplores lack of progress at talks ahead of COP29 in November](#)
- Reuters: [Climate change funding talks stuck ahead of COP29 summit](#)
- Climate Home News: [Bonn talks on climate finance goal end in stalemate on numbers](#)
- Down to Earth: [Bonn Climate Conference 2024: Imbalanced texts, imbalanced outcomes on new climate finance target](#)
- Grist: [Food’s climate footprint was once again MIA at global talks](#)

**NEWS**

- **Supreme Court rejects Rio Grande settlement**
  21 June 2024, E&E News
  o Related Article: [Supreme Court Rio Grande ruling could ripple through other water cases](#)
    21 June 2024, E&E News

- **Oil Projects Must Consider Full Climate Impact, Top U.K. Court Rules**

- ‘**Groundbreaking**: How children in Hawaii won landmark climate case
  21 June 2024, Al Jazeera

- **How AI is turning satellite imagery into a window on the future**
20 June 2024, Defense One

- Tribunals Challenge Climate Peril and Can Really Aid Activists
  20 June 2024, Fair Observer

- Federal agencies update plans for adapting to climate impacts
  20 June 2024, The Hill

- Extreme heat killing more than 100 people in Mexico hotter and much more likely due to climate change
  20 June 2024, World Weather Attribution

- How US military bases became proving grounds for energy technology
  20 June 2024, The Hill

- How the EU’s Historic New Law Targets Climate Change and Biodiversity Loss
  19 June 2024, Impakter

- New project assesses biodiversity effects of shrinking Antarctic sea ice
  19 June 2024, Stockholm Resilience Centre

- China, EU set to strengthen role as ‘ballast’ on climate change action
  19 June 2024, China Daily

- Risks and Restoration: Land as a Driver of Conflict and Cooperation
  19 June 2024, New Security Beat

- DOD Forges Clean Energy Pathway With Carbon Pollution-Free Electricity Contract
  18 June 2024, U.S. Department of Defense Release

- Climate change is a threat, not a distraction, to the US military
  18 June 2024, Defense One

- US-EU Dialogue on Climate Security Underway
  18 June 2024, Mirage News

- The American Climate Corps officially kicks off
  18 June 2024, Grist

- AI diplomacy ignores greatest existential risk of all: Climate change
  18 June 2024, Euronews

- The American Climate Corps officially kicks off
  18 June 2024, Grist

- Nature restoration, rewilding and battery innovations: Positive environmental stories from 2024
  18 June 2024, Euronews

- US Army seeks nuclear microreactors for reliable on-site generation
  17 June 2024, Utility Dive
• **Brazil joins race to loosen China’s grip on rare earths industry**  
 17 June 2024, Reuters

• **The UK’s Muddy Fields Are Latest Climate Threat to Food Security**  
 15 June 2024, Bloomberg

• **Will the new Parliament change Europe’s course on energy security and climate?**  
 14 June 2024, Atlantic Council

• **Climate Change: The Missing Agenda in India’s Recent Elections**  
 14 June 2024, Toda Peace Institute

• **Riots erupt in drought-stricken central Algeria over months of water shortages**  
 11 June 2024, AP News

• **The U.S. Military’s Race to Save a Crucial Missile Test Site From the Sea**  
 11 June 2024, The Wall Street Journal

• **Making climate models relevant for local decision-makers**  
 11 June 2024, MIT News

• **The US Drought Monitor is a critical tool for the arid West: Can it keep up with climate change?**  
 10 June 2024, Phys.org

REPORTS, PUBLICATIONS & OTHER RESOURCES

• **Fact Sheet:** [Biden-Harris Administration Releases Agency Climate Adaptation Plans, Demonstrates Leadership in Building Climate Resilience](#)  
The White House, 20 June 2024

• **Analysis:** [What record global heat means for breaching the 1.5C warming limit](#)  
Carbon Brief, 13 June 2024

• **Podcast:** [Hope for the climate and for restoring the atmosphere](#)  
ABC Radio International, 6 June 2024  
  o Features Rob Jackson, Professor of Earth Sciences, Stanford University

• **Report:** [Environmental impact of the conflict in Gaza](#)  
UN Environment Programme, June 2024

• **Report:** [How Innovative Is China in Nuclear Power?](#)  
Information Technology & Innovation Foundation, June 2024

• **Article:** [How Climate Change Threatens Democracy](#)  
Foreign Affairs, 5 June 2024  
  o [Interview with Author Alice Hill](#), NPR, 18 June 2024

• **Report:** [A fair share of biodiversity finance](#)  
Overseas Development Institute, June 2024

• **Commentary:** [Climate change and urban violence: A critical knowledge gap](#)  
Stockholm International Peace Research Institute, 19 June 2024
• **Podcast:** The Future of Energy (Episode 3): Daniel Yergin, Vice Chairman of the S&P Global and Author of “The New Map”  
Smarter Markets, 14 June 2024

• **Articles from Nature:**
  - Widespread misestimates of greenhouse gas emissions suggest low carbon competence, Nature Climate Change, 21 June 2024
  - Climate change to exacerbate the burden of water collection on women’s welfare globally, Nature Climate Change, 21 June 2024
  - Diminished efficacy of regional marine cloud brightening in a warmer world, Nature Climate Change, 21 June 2024
  - Climate-induced migration in the Global South: an in depth analysis, Nature/npj Climate Action, 14 June 2024

• **Report:** Climate Change in China’s Governance  
Asia Society Policy Institute, June 2024

• **Briefer:** “Now What?” Addressing the Climate-Gender-Security Nexus at NATO  
Center for Climate & Security, 20 June 2024

• **Article:** Climate change and security narratives in Colombia  
Global Policy Journal, 18 June 2024

• **Report:** Planet on the move: Reimagining conservation at the intersection of migration, environmental change, and conflict  
International Union for Conservation of Nature (IUCN), June 2024

• **Report:** Climate Change and Armed Groups  
Ministry of Foreign Affairs of Denmark and Partners, May 2024

**EVENTS**

• **Introduction to Resilience Part 2: Hazard and Vulnerability Assessments**  
25 June 2024 / 3:30 – 4:30 pm ET / 12:30 – 1:30 pm PT / Virtual  
Federal Energy Management Program

• **[NEW] Harnessing Transformational Technology Symposia Series: Climate Security**  
26-27 June 2024 / Santa Fe, NM  
Los Alamos National Laboratory

• **Microgrid Implementation and Considerations for Improved Energy Resilience (Part 2)**  
27 June 2024 / 12 pm ET / 9 am PT / Virtual  
SERDP & ESTCP

• **Climate Conversations: Hydrogen**  
28 June 2024 / 12:30 – 1:45 pm ET / 9:30 – 10:45 am PT / Virtual  
National Academies of Sciences, Engineering, and Medicine

• **Climate Crossroads Summit 2024**  
16-17 July 2024 / Washington, DC & Virtual  
National Academies of Sciences, Engineering, and Medicine
• **[NEW] Introduction to Resilience: 3 – Identifying Resilience Solutions**  
  17 July 2024 / 1 – 2 pm ET / 10 – 11 am PT / Virtual  
  Federal Energy Management Program

• **Net-Zero Buildings: Cost-Effective and Sustainable for New Construction**  
  24 July 2024 / 11 am – 12:30 pm ET / 8 – 9:30 am PT / Virtual  
  Federal Emergency Management Program

• **2024 Congressional Renewable Energy and Energy Efficiency EXPO and Policy Forum**  
  30 July 2024 / Washington, DC  
  Environmental and Energy Study Institute

• **Development of Assessment Tools for Downscaled Global Climate Models**  
  22 August 2024 / 12:00 pm ET / 9:00 am PT / Virtual  
  SERDP & ESTCP

• **Macroeconomics Implications of Decarbonization Policies and Actions**  
  12 – 13 September 2024 / Washington DC & Virtual  
  National Academies of Sciences, Engineering, and Medicine

• **Optimizing Ocean Observing Networks for Detecting the Coastal Climate Signal Workshop**  
  23-25 September 2024 / Boulder, CO & Virtual  
  U.S. Climate Vulnerability and Predictability Program

• **Effects of Multiple Stressors on Marine Mammals and Terrestrial Species on DoD Lands**  
  26 September 2024 / 12:00 pm ET / 9:00 am PT / Virtual  
  SERDP & ESTCP

• **DOD Energy & Environment Innovation Symposium**  
  3-6 December 2024 / Washington, DC  
  SERDP, ESTCP, OECIF, OEPF

• **[NEW] Analyzing Building Operations Data for Improved Performance and Energy Savings**  
  12 December 2024 / 12 pm ET / 9 am PT / Virtual  
  SERDP, ESTCP

• **17th International Conference on Climate Change: Impacts & Responses**  
  23-25 January 2025 / Miami, FL  
  Florida International University and Partners

**OPPORTUNITIES**

• **Request for Applications: Workforce Development for the Energy Transition**  
  National Academies of Sciences, Engineering, and Medicine Gulf Research Program / Submissions due 26 June 2024.

• **Call for Papers: Special Issue: Climate Change: How the Sound of the Planet Reflects the Health of the Planet**  
• **Funding Opportunity: Environmental and Climate Justice Climate Change Program**
  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.

For the special section... here in the U.S., the headlines this week were dominated by the issuance of Supreme Court opinions and the Presidential Debate on Thursday. In the middle of this, an article that caught my eye repeated the claim that the Department of Defense efforts on climate change means weakening military capabilities. These claims are common and often miss the underlying reasons that militaries across the globe are focused on climate change and emissions: to increase operational advantage. The special section lays out a few of the reasons with commentary and resources. Would love to hear from you on other resources.

It’s also one of my favorite weekly emails because the Naval Postgraduate School graduation was last week. I’m pleased to congratulate several CSN Members for earning their degrees:

- Major Ian Patrick McAlpine, US Army: Master of Science in Applied Design for Innovation
- Major Eric Czaja, US Army: Master of Science in Defense Analysis
  - Read more about Major McAlpine and Major Czaja

And, 2 NPS-Stanford Climate Security Fellows:
- Captain Colby C. Smith, US Marine Corps: Master of Arts in Security Studies
- Ensign Nicholas Patrick Hilaire, US Navy: Master of Science in Applied Science (Ops Research)

Congratulations, Graduates!

Kristen

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NPS Climate & Security Network Weekly Update: 28 June 2024

Special Section: Reducing Military Emissions = Operational Advantage

- **In-Theatre Production of Fuel:**
  - Clean Technica: [US Navy Prowls for E-Fuels From The Seven Seas](#) (2023)

- **Reducing Loss of Life related to Fuel Transport:**
  - Modern War Institute: [The Promise of Hydrogen: An Alternative Fuel at the Intersection of Climate Policy and Lethality](#) (2021)
  - Task & Purpose: [How the US military’s reliance on fossil fuels puts troops in danger](#) (2022)

- **Reduced Noise and Heat Signatures:**
  - Military Embedded: [The battery’s role in the evolving military ground vehicle](#) (2023)

- **Increased Speed/Capabilities:**
Increasing Efficiency & Operational Endurance:
  • Defense News: It’s time to appreciate energy’s influence upon sea power (2024)

Reducing Energy Costs for Better Funds Allocation:
  • Signal: Army Seeks Capability Enhancements Through Climate Change Efforts (2023)

And for a more detailed analysis:
  • Costs of War: Pentagon Fuel Use, Climate Change, and the Costs of War (2019)
  • Lawfare Podcast: Neta Crawford on the Pentagon, Climate Change, and War (2022)

NEWS

• The state of the UK’s ‘food security’ in a fast-warming world
  28 June 2024, Carbon Brief

• Wall Street’s Supreme Court win could slow energy enforcement
  28 June 2024, E&E News

• Scientists just got closer to solving a major Antarctic puzzle
  28 June 2024, Grist

• How China is adapting to increasingly frequent flooding
  28 June 2024, Carbon Brief

• SCOTUS pauses EPA plan to keep smog from drifting across state lines
  27 June 2024, The Verge

• Navy Conducts Climate Action Exercise With Caribbean Partners
  27 June 2024, U.S. Department of Defense Release

• Study Maps Giant Slush Zones as New Threat to Antarctic Ice
  27 June 2024, Inside Climate News

• AI can transform global food security and climate action
  27 June 2024, Context

• The Vanishing Islands That Failed to Vanish
  26 June 2024, The New York Times

• Energy Assurance Campaign emphasizes robust, secure, mission-ready posture
  26 June 2024, U.S. Air Force Release

• DOD Components Receive Presidential Sustainability Award
  26 June 2024, U.S. Department of Defense Release

• Climate Change and Children’s Mobility
  25 June 2024, New Security Beat

• Design of World’s First Hydrogen-Hybrid Research Vessel Approved
  25 June 2024, Scripps Institution of Oceanography Release

• A new military land designation around Great Salt Lake opens doors for conservation
25 June 2024, Utah Public Radio

- **Flowing Together: Peace and Conflict’s Role in Socio-hydrology**  
  24 June 2024, New Security Beat

- **Supreme Court to consider limiting climate assessments for infrastructure projects**  
  24 June 2024, The Hill

- **DOD Serves as Key Interagency Partner in Whole-of-Government Response to Climate Change**  
  24 June 2024, U.S. Department of Defense Release

- **Unprecedented crisis in West Africa: Nearly 9 Million displaced by conflict and climate change, warns IRC on World Refugee Day**  
  20 June 2024, International Rescue Committee Release

- **Risks and Restoration: Land as a Driver of Conflict and Cooperation**  
  19 June 2024, New Security Beat

- **Fort Detrick Unveils Advanced Renewable Energy System**  
  18 June 2024, Defense Visual Information Distribution Service (DVIDS)

- **Ocean-Based Carbon Removal Is About to Take a Big Step Forward**  
  18 June 2024, Heatmap

- **Supreme Court seeks Biden administration’s views in major climate change lawsuits**  
  10 June 2024, CBS News

REPORTS, PUBLICATIONS & OTHER RESOURCES

- **Plan:** [U.S. Environmental Protection Agency Climate Adaptation Plan](#)  
  EPA, June 2024

- **Feature Article:** [All Hail the Planet: Military](#)  
  Al Jazeera, 20 June 2024

- **Podcast:** [Crude Awakening: Why Ecuador Voted to Stop Drilling in the Amazon](#)  
  Climate One, 28 June 2024

- **Podcast:** [ICC Arrest Warrants for Russian Attacks on Ukraine’s Power Grid](#)  
  The Just Security Podcast, 28 June 2024

- **Article:** [Rapidly Developing a Community- and Evidence-Based Heat Action Plan](#)  
  Bulletin of the American Meteorological Society, May 2024

- **Fact Sheet:** [SOUTHCOM, June-August 2024: Wet Season in Central America, Colombia, and the Caribbean](#)  
  Global Water Security Center, May 2024

- **Prediction Model:** [Regional Arctic System Model Sea Ice Prediction](#)  
  Naval Postgraduate School, 1 June 2024

- **Article:** [North Atlantic-Pacific salinity contrast enhanced by wind and ocean warming](#)
Nature Climate Change, 28 June 2024

• **Podcast:** Clearing the air: How the DOE is tackling carbon dioxide removal  
  Climate Now, 18 June 2024

• **Article:** Tipping point in ice-sheet grounding-zone melting due to ocean water intrusion  
  Nature Geoscience, 25 June 2024

• **Report:** Looming Deadlines for Coastal Resilience  
  Union of Concerned Scientists, June 2024

• **Article:** Substantial contribution of slush to meltwater area across Antarctic ice shelves  
  Nature Geoscience, 27 June 2024

• **Webinar Video:** Resilience and Climate Change Panel  
  Idaho State University Homeland Security & Emergency Management Degree Program, June 20-24  
  *Note: features CSN Planning Team Member Katelin Wright*

• **Webinar Video:** Visualizing Uncertainty  
  Global Water Security Center, May 2024

• **Report:** Grand Challenge Initiatives in AI for Climate & Nature  
  Climate Change AI and partners, June 2024

**EVENTS**

• **[NEW]** Fail to Plan, Plan to Fail: How Emissions Reduction Planning Helps Partners Meet Climate Goals  
  2 July 2024 / 11 am ET / 8 am PT / Virtual  
  U.S. Department of Energy

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  16-17 July 2024 / Washington, DC & Virtual  
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• **17th International Conference on Climate Change: Impacts & Responses**  
  23-25 January 2025 / Miami, FL  
  Florida International University and Partners

**OPPORTUNITIES**

• [NEW] Call for nomination of experts to Scoping Meeting for Methodology Report on Carbon Dioxide Removal Technologies and Carbon Capture Utilization and Storage  
  Intergovernmental Panel on Climate Change / Nominations must go through Focal Points for IPCC member government and observer organizations / Nominations due 19 July 2024.

• [NEW] Call for Papers: Using AI To Build Secure and Resilient Agricultural Systems  
  2024 International Symposium on AI for Agriculture / Submissions due 9 August 2024.

• **Funding Opportunity: Environmental and Climate Justice Climate Change Program**  
  Environmental Protection Agency / Applications accepted on a rolling basis through 21 November 2024.