

Marisol Maddox

Ms. Marisol Maddox primarily serves as a Senior Arctic Fellow at the Institute of Arctic Studies in the Dickey Center at Dartmouth. She is also a Senior Associate in the Europe, Russia, and Eurasia Program at the Center for Strategic and International Studies (CSIS). Her transdisciplinary research considers the Arctic nexus of geopolitics, security, and environmental change. She served as an Arctic subject matter expert at the Woodrow Wilson Center's Polar Institute from 2018-2025, in recent years sub-contracting to Sandia National Laboratories to focus on Arctic and climate security challenges.

Marisol maintains numerous professional affiliations related to strengthening relationships and cooperative efforts to mitigate and adapt to risks in the Arctic. She is a member of the US delegation to the Situational Awareness Working Group of the International Cooperative Engagement Program for Polar Research (ICE-PPR). She has taught about the Arctic all over the world, including at Department of Defense Regional Centers and international institutions, such as the Geneva Centre for Security Policy. She is a term member of the Council on Foreign Relations. She serves on the Advisory Board of the International Security graduate program at George Mason University's Schar School, and in August 2025 was appointed to a three-year term on the Board of Appeals of her town's Planning Board.

Education

George Mason University

MA, International Security, concentration in Transnational Challenges

SUNY Binghamton

BA, Environmental Studies, concentration in Ecosystems

Professional Experience

Dartmouth College

October 2024- present

Senior Arctic Fellow

- Conduct research on Arctic security and environmental security
- Lead development of the North American Arctic Speaker Series which brings together experts from Alaska, Greenland, and Canada to share insights on matters of mutual interest.
- Provide Arctic subject matter expertise and analysis for a diverse list of U.S. government stakeholders including the armed services, DoD Regional Centers, DHS, FFRDCs, the intelligence community, think tanks, Congress and legislators, universities, allied and partner nations, and NGOs.
- Member of the Situational Awareness Working Group of the International Cooperative Engagement Program for Polar Research (ICE-PPR)

Center for Strategic and International Studies (CSIS)

Senior Associate (non-resident)

May 2025- present

- Arctic subject matter expertise and analysis

WestExec

February 2026- present

Senior Advisor

- Arctic subject matter expertise and analysis

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Conference of Defense Associations Institute

November 2025- present

Fellow

- Arctic subject matter expert focused on analysis in support of North American Arctic defense.

North American and Arctic Defense and Security Network

March 2025- present

Fellow

- Arctic subject matter expert focused on analysis of defense and security cooperation between the US, Canada, and Greenland (the Kingdom of Denmark)

The Council on Foreign Relations

June 2022- present

Stephen M. Kellen Term Member

The Council on Strategic Risks

January 2020- present

Non-Resident Research Fellow, The Center for Climate and Security

- Provide subject matter expertise on the Arctic in the form of written and oral briefings and assessments for U.S. government stakeholders, allied and partner nations, and inter-governmental forums.
- Member of the Climate Security Working Group

Polar Institute, Woodrow Wilson International Center for Scholars

Senior Arctic Analyst

January 2022- April 2025

- Subcontracted to Sandia National Laboratories to provide analysis on the Arctic and climate security
- Provide Arctic subject matter expertise and analysis for a diverse list of U.S. government stakeholders including the armed services, DoD Regional Centers, DHS, FFRDCs, the intelligence community, think tanks, Congress and legislators, universities, allied and partner nations, and NGOs.
- Direct and develop research projects and strategic partnerships.
- Served as Polar Institute lead in partnership with the Arctic Coast Guard Forum to adapt goals of a planned in-water joint exercise *Arctic Guardian* to a virtual environment due to covid disruption.
- Spearheaded partnership with USCG to develop a Coast Guard Fellowship at the Polar Institute to advance relationships between USCG and the broader Arctic policy community.
- Contributed analysis on systems thinking approaches towards environmental security for the U.S. Intelligence Community's Environmental Security Working Group (ICESWG)

Arctic Analyst

January 2019- December 2021

- Provided primary support to Ambassador David Balton's work on Arctic Ocean governance.
- Deployed with USCG in the Arctic on the icebreaker Healy to gain in-theater, operational experience in support of informed discussions and policy development in DC.

Research Assistant

August- December 2018

- Supported Polar Institute program development, event execution, and tracked Arctic geopolitical, security, and environmental change developments.
- Research assistant for Ambassador David Balton and the Honorable Sherri Goodman

Syracuse University- Maxwell School

January- May 2024

Adjunct Professor

- Taught graduate-level course, PAI 700: Environmental Security

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European Center of Excellence (COE) on Countering Hybrid Threats

January- December 2023

Core expert on Arctic and Hybrid Threats

- Provided expertise for development of Arctic hybrid threats tabletop exercise scenarios; authored a hybrid threat scenario; provided threat mitigation analysis.

U.S. Naval War College

April 2021- April 2022

Newport Arctic Scholars Initiative

- Contributed expertise to the development of a Charter of Business for an Arctic Ocean Naval Symposium (AONS) to increase communication and cooperation on Arctic maritime safety and risk reduction.

Wright Thomas International

January 2017 - December 2017

Climate Security Research Fellow

- Authored briefings and provided climate security analysis for the Arctic and Latin America, in support of the U.S. intelligence community and development of non-traditional security partnerships.

Awards and Scholarships

Howard P. Hart Endowed Scholarship, received in 2019 and 2020

Congressional Recognition for Political Action Participation, 2005

The Freedom Scholarship from the White House, 2004

Women in Science Society, Certificate of Recognition for Excellence, St. John's University, 2003

Select Publications

Maddox, M., Nesheiwat, J. (2025). *The Arctic Council Requires Reform, Not a Funeral*. Arctic Today. <https://www.arctictoday.com/the-arctic-council-requires-reform-not-a-funeral/>

"Pan-Arctic Methane: Current Monitoring Capabilities, Approaches for Improvement, and Implications for Global Mitigation Targets," The Wilson Center. October 7, 2024. <https://www.wilsoncenter.org/publication/pan-arctic-methane-current-monitoring-capabilities-approaches-improvement-and>

KR Miner; Bradley Gay; Jennifer Watts; Kelly Luis; Annett Bartsch; Clayton Drew Elder; Mathias Goeckede; Juha Lemmetyinen; Hannakaisa Lindqvist; Marisol Maddox et al. *Emerging permafrost carbon dynamics: Identifying critical gaps and future needs*. ESS Open Archive. June 13, 2024. DOI: 10.22541/essoar.171828419.97266125/v1

Maddox, M., Lea, L. (2023). *The Intelligence Community Must Evolve to Meet the Reality of Arctic Change*, volume 13, Polar Perspectives, The Wilson Center. <https://www.wilsoncenter.org/publication/polar-perspectives-no-13-intelligence-community-must-evolve-meet-reality-arctic-change>

Miner, K., Canavera, L., Gonet, J., Maddox, M. et al. *The co-production of knowledge for climate science*. Nat. Clim. Chang. (2023). <https://doi.org/10.1038/s41558-023-01633-4>

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Maddox, Marisol. (2023). "Implications of Climate Change for Military Operations in the Arctic." In: Karsten Fris, Elana Wilson Rowe, Mike Sfraga, and Ulf Sverdrop, editors. *Navigating Breakup: Security realities of freezing politics and thawing landscapes in the Arctic, input report for the Arctic Security Roundtable at the Munich Security Conference 2023*. Norwegian Institute of International Affairs: Oslo, pp. 23-29.

Goodman, S., Davies, P., Maddox, M. (2022). *Arctic Methane Workshop: Open Access Report*. Sandia National Laboratories and The Wilson Center. <https://www.wilsoncenter.org/sites/default/files/media/uploads/documents/2022%20Arctic%20Methane%20Workshop%20-%20Open%20Summary%20Report.pdf>

Maddox, M. (2021). *Climate-Fragility Risk Brief: The Arctic*. Climate Security Expert Network. https://climate-security-expert-network.org/sites/climate-security-expert-network.org/files/documents/csen_risk_brief_arctic.pdf

Goodman, S., Maddox, M., Guy, K. (2021) "We need renewed dialogue among security forces in the Arctic," Arctic Today. <https://www.arctictoday.com/we-need-renewed-dialogue-among-security-forces-in-the-arctic/>

"Climate Change and Security in the Arctic." A product of The Center for Climate and Security (CCS), an institute of the Council on Strategic Risks (CSR), and The Norwegian Institute of International Affairs (NUPI). Authors: Sherri Goodman, Kate Guy, Marisol Maddox (CCS); Vegard Valther Hansen, Ole Jacob Sending, Iselin Németh Winther (NUPI). Edited by Francesco Femia and Erin Sikorsky (CCS). January 2021. https://climateand-security.org/wp-content/uploads/2021/01/Climate-Change-and-Security-in-the-Arctic_CCS_NUPI_January-2021-1.pdf

Ramanarayanan, D., Stith, M., Maddox, M., Johnson, B. (2020). *Interdisciplinary Solutions Will Improve Alaska Native Maternal Health (Part 2)*. New Security Beat. <https://www.newsecuritybeat.org/2020/11/interdisciplinary-solutions-improve-alaska-native-maternal-health-part-2-2/>

Danoy, J., Maddox, M. (2020). *Set NATO's Sights on the High North*. Atlantic Council. <http://www.jstor.org/stable/resrep26694>

Ramanarayanan, D., Maddox, M., Johnson, B., Stith, M. (2020). *The Impacts of Climate Change on Alaska Native Maternal Health (Part 1)*. New Security Beat. <https://www.newsecuritybeat.org/2020/10/impacts-climate-change-alaska-native-maternal-health-part-1-2/>

Balton, D., Janis, B., Logadóttir, H., Maddox, M., Ulmer, F. (2020) *Policy and Action on Plastic in the Arctic Ocean: October 2019 Workshop Summary & Recommendations*. Harvard Belfer Center. <https://www.belfer-center.org/publication/policy-and-action-plastic-arctic-ocean-october-2019-workshop-summary-recommendations>

Contributing author to testimony of Sherri Goodman before the United States Senate Subcommittee on Security of the Committee on Commerce, Science, and Transportation, "Expanding Opportunities, Challenges, and Threats in the Arctic: A Focus on the US Coast Guard Arctic Strategic Outlook," December 12, 2019. <https://www.commerce.senate.gov/services/files/913118B4-0C4C-4FAD-96BE-711441470E94>

Maddox, M. (2019) *Two Divergent Paths for Our Planet Revealed in New IPCC Report on Oceans and Cryosphere*. New Security Beat. <https://www.newsecuritybeat.org/2019/11/divergent-paths-planet-revealed-ipcc-report-oceans-cryosphere/>

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Goodman, S., Davies, P., Maddox, M., Summers, C. (2019). *Research in a Changing Arctic Must be Prioritized*. New Security Beat. <https://www.newsecuritybeat.org/2019/10/research-changing-arctic-prioritized/>

Goodman, S., Davies, P., Townsend, J., Maddox, M. (2019). *Planning for a Changing Arctic: A Scenario-Based Discussion Paper*. The Council on Strategic Risks. <https://councilonstrategicrisks.org/2019/09/19/planning-for-a-changing-arctic-a-scenario-based-discussion-paper/>

Contributing author to testimony of Dr. Mike Sfraga before the Congress of the United States House of Representatives Subcommittee on Transportation and Maritime Security of the Committee on Homeland Security, “The Northern Northern Border: Homeland Security Priorities in the Arctic, Part I,” September 19, 2019. <https://homeland.house.gov/imo/media/doc/Testimony-Sfraga.pdf>

Maddox, M. (2019). *Anticipatory Intelligence: Climate Change in the National Intelligence Strategy*. New Security Beat. <https://www.newsecuritybeat.org/2019/01/anticipatory-intelligence-climate-change-national-intelligence-strategy/>

Goodman, S., Maddox, M. (2018). *China’s Growing Arctic Presence*. China-US Focus. <https://www.chinausfocus.com/finance-economy/chinas-growing-arctic-presence>