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Advancing Knowledge of the Arctic through Science, Education, and Collaboration

Roberto Delgado, PhD
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Arctic Sciences Section Programs and Staff



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Arctic Sciences Section Head: Jennifer Mercer

AAAS Science and Technology Policy

Fellow: Xoco Shinbrot

Science Assistant: Kayla Hubbard

Program Specialists: Erika Haymes, Linda Izzard

Arctic Research Support and Logistics (RSL) Program

Supports fieldwork of research projects funded through ARC

Renee Crain, Frank Rack, Kate Ruck, Katy Smith (c)

Arctic Policy Program (ARPS)

"...supports short- and long-term efforts to enhance communication, coordination, and collaboration across the research enterprise."

Colleen Strawhacker

Crosscutting Programs

Polar Education: Promotes education research for an informed citizens and the next generation of scientists. *Lisa Rom*

Polar Cyberinfrastructure: Supports Polar and cyberinfrastructure researchers. *Allen Pope*

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Arctic Natural Sciences (ANS)

“...supports projects focused on hypotheses-driven and process-based science that informs an understanding of the larger Arctic region.”

Rainer Amon, Colene Haffke, Marc Stieglitz

Arctic Observing Network (AON)

“...supports proposals to make field observations to detect and understand Arctic system change occurring on time scales longer than the duration of a typical NSF research grant.”

Roberto Delgado (dt)

Arctic System Science (ARCSS)

“...proposals that advance our understanding of the Arctic as a coupled system, and how the Arctic system interacts with the Earth System...often interdisciplinary...with emphasis on the interactions among system components.”

Greg Anderson (dt), Kelly Brunt, Colleen Strawhacker

Arctic Social Sciences (ASSP)

“...supports research on Arctic social and cultural systems, present and past, and research relevant to understanding these systems.”

Liam Frink, Erica Hill

An aerial photograph of an Arctic research station. The station is situated on a vast, flat, snow-covered landscape. In the upper left, there is a cluster of vehicles and equipment, including several yellow and white trucks, and stacks of blue and yellow barrels. To the right, there is a group of small, dark-colored buildings. In the lower left, a large, white, rectangular structure is visible. In the lower right, there is a larger, more complex structure with a white dome on top. The entire scene is characterized by numerous tracks and paths in the snow, indicating frequent movement and activity.

Arctic Funding Opportunities

Photo: Dave Malpas

Funding Opportunities



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Arctic Research Opportunities

NSF 21-526 - No Deadline

- General Arctic Science proposals
- Research Networking Activities (RNAs)
- Large Project Support (LPS)
- Conferences

Arctic Observing Network Dear Colleague Letter

NSF 23-052 – Strategy Development Workshops

Navigating the New Arctic (NNA) - NSF 22-520

**Sign up for email notices from GEO to be aware of new opportunities
(<https://www.nsf.gov/dir/index.jsp?org=GEO>)*

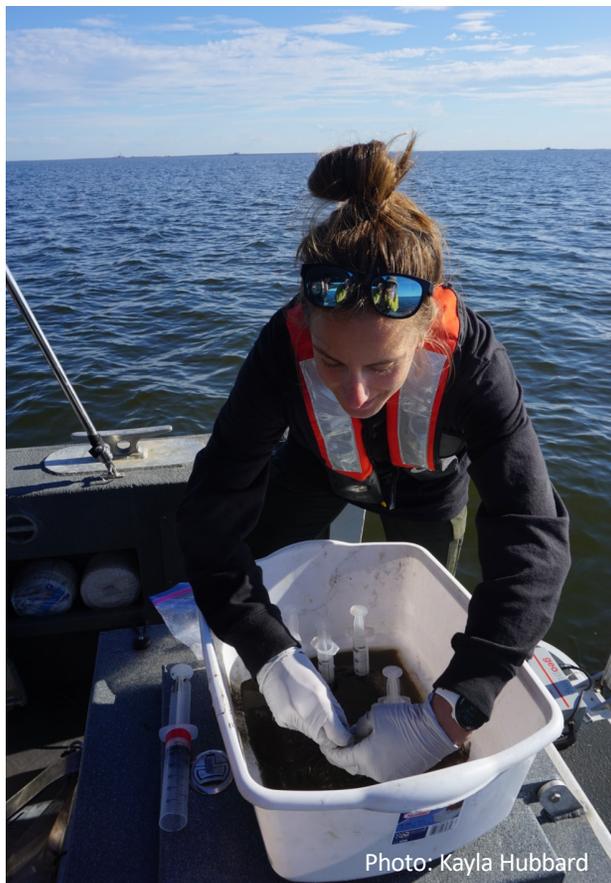


Photo: Kayla Hubbard

Early Career and Education Funding Opportunities



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- OPP Postdoctoral Research Fellowship [NSF 22-635](#) | Target Date 5 February 2024
- Arctic Doctoral Dissertation Research Improvement Grants [NSF 20-597](#) | 15 May & 15 December, annually
- Research Experiences for Teachers (RET) **Supplement Opportunity** [NSF 22-043 \(DCL\)](#)
- Directorate of Geosciences - Veterans Education and Training **Supplement** (GEO-VETS) Opportunities [NSF 22-044 \(DCL\)](#)
- Pathways into the Earth, Ocean, Polar and Atmospheric & Geospace Sciences (GEOPATHs) [NSF 22-555](#) | Proposals Accepted Any Time

New OPP Data/Code/Sample Policy (NSF 22-106)



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- Advance open polar data to maximize the benefit of NSF's investments in research, facilitate transparency and replicability in polar science, and increase the impact of polar research
- Align with FAIR data principles (Findability, Accessibility, Interoperability, and Reusability) and CARE principles for Indigenous data governance (Collective Benefit, Authority to Control, Responsibility, Ethics)
- Requires metadata files, full final data sets, derived data products, physical samples, and relevant software/code be deposited in a long-lived and publicly accessible archive.
 - Data Management Plans (DMPs) that rely on self-publication are noncompliant and will require revision or RWR.
- Samples, data, and associated code must be archived within two years of collection/creation or by the end of the award, whichever comes first (***and within 6 Months for AON**).

Full DCL available at <https://www.nsf.gov/pubs/2022/nsf22106/nsf22106.jsp>

Interagency Collaborations



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- Arctic Executive Steering Committee
 - National Strategy for the Arctic Region (NSAR)
 - NSAR Implementation Plan
- Interagency Arctic Research Policy Committee (IARPC)
 - Arctic Research Plan: FY2022-2026
 - Biennial Implementation Plan
- United States Arctic Observing Network (US AON)
 - Report to Congress on behalf of IARPC and White House Office of Science and Technology Policy

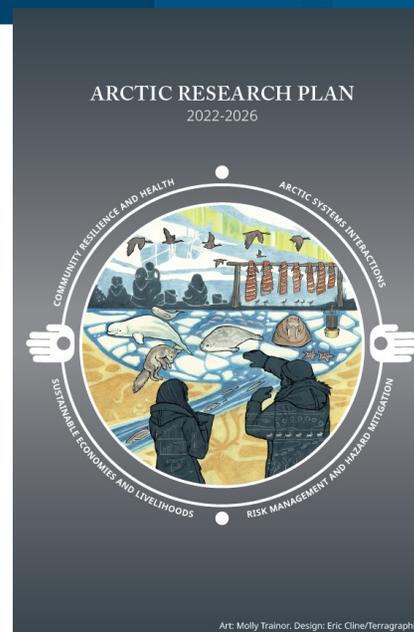


Photo: Kayla Hubbard

US AON Report Recommendations



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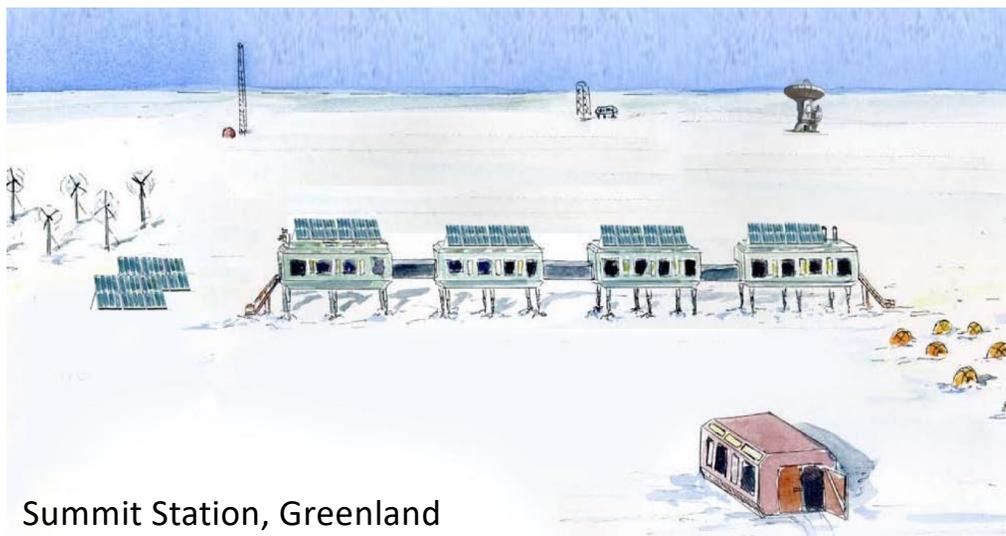


1. Support for coordinated, integrated, and sustained critical observations and infrastructure;
2. Development of a shared data management system that is open, easily discoverable, accessible, and usable across observing networks;
3. Prioritization of human and technological capacity building ;
4. Closure of observational gaps in atmospheric, cryospheric, freshwater, marine, social, and terrestrial systems for decision-making

International Activities



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Summit Station, Greenland

Working Group of the Arctic Council

AMAP / ARCTIC MONITORING & ASSESSMENT PROGRAMME



A wide-angle photograph of an Arctic coastal landscape. In the foreground, a grassy, slightly eroded bank slopes down towards a dark, sandy beach. The beach is littered with numerous pieces of white ice. The ocean is a deep blue, with several ice floes scattered across its surface. In the distance, a small island or structure with a red crane is visible on the horizon. The sky is filled with soft, grey clouds, suggesting an overcast day. The text "Arctic Community Engagement" is overlaid in a large, bold, black font across the center of the image.

Arctic Community Engagement

OPP Arctic Community Engagement Initiative (ACE)



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Resource Guidelines for Ethical Engagement

IARPC:

<https://www.iarpccollaborations.org/principles.html>

Circumpolar Inuit Protocols (ICC) for Equitable and Ethical Engagement:

<https://www.inuitcircumpolar.com/project/circumpolar-inuit-protocols-for-equitable-and-ethical-engagement>

OPP ACE Initiative encourages collaborations

- Research sites near local and Indigenous communities or their lands
- Community engagement and outreach
- Co-production of Knowledge

Requesting a letter of collaboration from community partners without timely and thoughtful consultation is not tolerated

OPP ACE as a Continuum of Research Practices



A wide-angle photograph of a vast, snow-covered mountain range under a cloudy sky. The mountains are covered in a thick layer of snow, with some rocky outcrops visible. In the foreground, a flat, snow-covered plain stretches out, where a group of reindeer is gathered. Some reindeer are standing, while others are lying down. The overall scene is serene and cold.

Resources and Media

Photo: Pat Smith

Arctic Community Resources



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- ARCUS – Arctic Research Consortium of the United States
- IARPC Collaborations Website & Teams– Interagency Arctic Research Policy Committee
- Battelle Arctic Gateway
- NNA Community Office
- Polar Science Early Career Community Office
- Arctic Data Center; OPP Repository & Resource webpage

OPP Communications and Newsletter



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Notify the OPP Communications Team and your PO about any media efforts.

Send us your stories, media, science publications, and press releases for further amplification!

Reminder: Office of Polar Programs now has a quarterly newsletter!

Topics include:

- Polar research highlights
- Funding opportunities and program updates
- Information about the latest happenings from around OPP and the National Science Foundation



Sign up! <https://bit.ly/3gHqVhk>

OPP Communications Email: oppcomms@nsf.gov

Thank You!

Please don't hesitate to reach out to us with questions; we want to work with you!