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Arctic International Research Cruise Planning 2024-2026: Situational and Domain Awareness

Frank R. Rack, Ph.D., Program Manager, Arctic Research Support and Logistics Program
NSF Office of Polar Programs, Arctic Sciences Section

U.S. National Strategy for the Arctic Region



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NATIONAL STRATEGY FOR THE ARCTIC REGION

OCTOBER 2022



- **Pillar 1 – Security:** We will deter threats to the U.S. homeland and our allies by enhancing the capabilities required to defend our interests in the Arctic, while coordinating shared approaches to security with allies and partners and mitigating risks of unintended escalation. We will exercise U.S. government presence in the Arctic region as required to protect the American people and defend our sovereign territory.
- **Pillar 2 – Climate Change and Environmental Protection:** The U.S. government will partner with Alaskan communities and the State of Alaska to build resilience to the impacts of climate change, while working to reduce emissions from the Arctic as part of broader global mitigation efforts, improve scientific understanding, and conserve Arctic ecosystems.
- **Pillar 3 – Sustainable Economic Development:** We will pursue sustainable development and improve livelihoods in Alaska, including for Alaska Native communities, by investing in infrastructure, improving access to services, and supporting growing economic sectors. We will also work with allies and partners to expand high-standard investment and sustainable development across the Arctic region.
- **Pillar 4 – International Cooperation and Governance:** Despite the challenges to Arctic cooperation resulting from Russia's war in Ukraine, the United States will work to sustain institutions for Arctic cooperation, including the Arctic Council, and position these institutions to manage the impacts of increasing activity in the region. We also seek to uphold international law, rules, norms, and standards in the Arctic.

https://www.whitehouse.gov/briefing-room/statements-releases/2022/10/07/fact-sheet-the-united-states-national-strategy-for-the-arctic-region/?utm_source=link

U.S. National Strategy for the Arctic Region



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NATIONAL STRATEGY FOR THE ARCTIC REGION

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Our work will be guided by five principles that will be applied across all four pillars.

- **Consult, Coordinate, and Co-Manage with Alaska Native Tribes and Communities:** The United States is committed to regular, meaningful, and robust consultation, coordination, and co-management with Alaska Native Tribes, communities, corporations, and other organizations and to equitable inclusion of Indigenous Peoples and their knowledge.
- **Deepen Relationships with Allies and Partners:** We will deepen our cooperation with Arctic Allies and partners: Canada, Kingdom of Denmark (including Greenland), Finland, Iceland, Norway, and Sweden. We will also expand Arctic cooperation with other countries that uphold international law, rules, norms, and standards in the region.
- **Plan for Long Lead-Time Investments:** Many of the investments prioritized in this strategy will require long lead times. We will be proactive, anticipating changes coming to the Arctic over the next several decades and making new investments now to be prepared.
- **Cultivate Cross-Sectoral Coalitions and Innovative Ideas:** The challenges and opportunities in the Arctic cannot be solved by national governments alone. The United States will strengthen and build on coalitions of private sector; academia; civil society; and state, local, and Tribal actors to encourage and harness innovative ideas to tackle these challenges.
- **Commit to a Whole of Government, Evidence-Based Approach:** The Arctic region extends beyond the responsibility of any single region or government agency. U.S. federal departments and agencies will work together to realize this strategy. We will deploy evidence-based decision-making and carry out our work in close partnership with the State of Alaska; Alaska Native Tribes, communities, corporations, and other organizations; and local communities.

https://www.whitehouse.gov/briefing-room/statements-releases/2022/10/07/fact-sheet-the-united-states-national-strategy-for-the-arctic-region/?utm_source=link

White House Office of Science and Technology Policy (OSTP): Interagency Arctic Research Policy Committee (IARPC)



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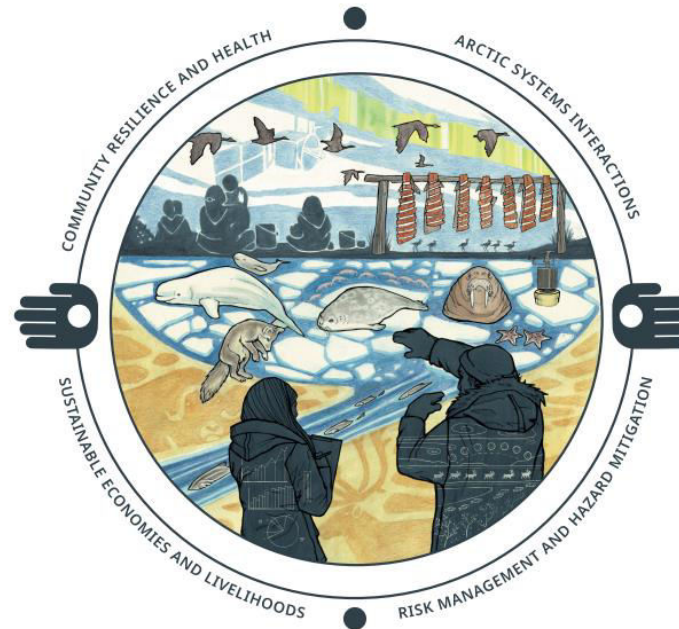
ARCTIC RESEARCH PLAN 2022-2026



Product of the Interagency Arctic Research Policy Committee
of the National Science and Technology Council

DECEMBER 2021

BIENNIAL IMPLEMENTATION PLAN 2022-2024 for the ARCTIC RESEARCH PLAN 2022-2026



Product of the Interagency Arctic Research Policy Committee
of the National Science and Technology Council

NOVEMBER 2022

ON THE NEED TO ESTABLISH AND MAINTAIN A SUSTAINED ARCTIC OBSERVING NETWORK

Prepared by
THE US ARCTIC OBSERVING NETWORK,
on behalf of the
INTERAGENCY ARCTIC RESEARCH POLICY COMMITTEE
of the
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL



DECEMBER 2022

<https://www.iarpccollaborations.org/plan/index.html>

<https://www.iarpccollaborations.org/arp-2022-2026-implementation.html>

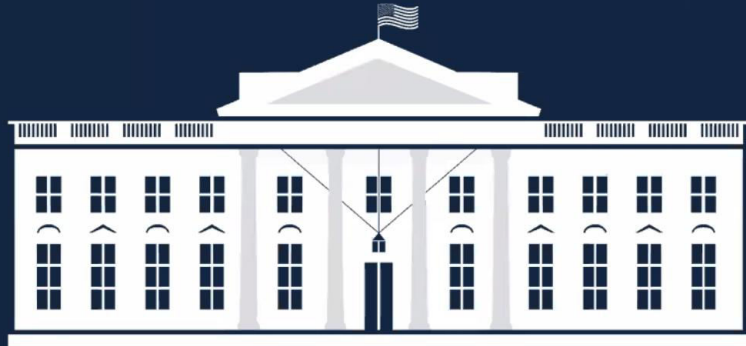
<https://www.iarpccollaborations.org/updates/23552>

White House OSTP's Climate and Environment Team and the White House Council on Environmental Quality (CEQ)



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GOVERNMENT-WIDE GUIDANCE ON INDIGENOUS KNOWLEDGE



THE WHITE HOUSE
OSTP-CEQ



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The Climate and Environment Team works to advance the Biden-Harris Administration's climate, environmental justice, and nature priorities so that all communities have access to and opportunities to help create a healthy, prosperous, resilient, and sustainable future. The team is led by Dr. Jane Lubchenco, OSTP's Deputy Director for Climate and Environment.

<https://www.whitehouse.gov/ostp/ostps-teams/climate-and-environment/>

Consistent with the Administration's commitment to scientific integrity and knowledge and evidence-based policymaking, the White House Office of Science and Technology Policy (OSTP) and the White House Council on Environmental Quality (CEQ) issued a memorandum to recognize Indigenous Knowledge – also known as Traditional Ecological Knowledge – as one of the many important bodies of knowledge that contributes to the scientific, technical, social, and economic advancements of the United States and to our collective understanding of the natural world in decision-making.

<https://www.whitehouse.gov/ostp/ostps-teams/climate-and-environment/indigenous-knowledge/>

Today, the White House Council on Environmental Quality (CEQ) and the White House Office of Science and Technology Policy (OSTP) jointly released new government-wide guidance and an accompanying implementation memorandum for Federal Agencies on recognizing and including Indigenous Knowledge in Federal research, policy, and decision making.

<https://www.whitehouse.gov/ceq/news-updates/2022/12/01/white-house-releases-first-of-a-kind-indigenous-knowledge-guidance-for-federal-agencies/>

Interagency Perspectives on the Arctic



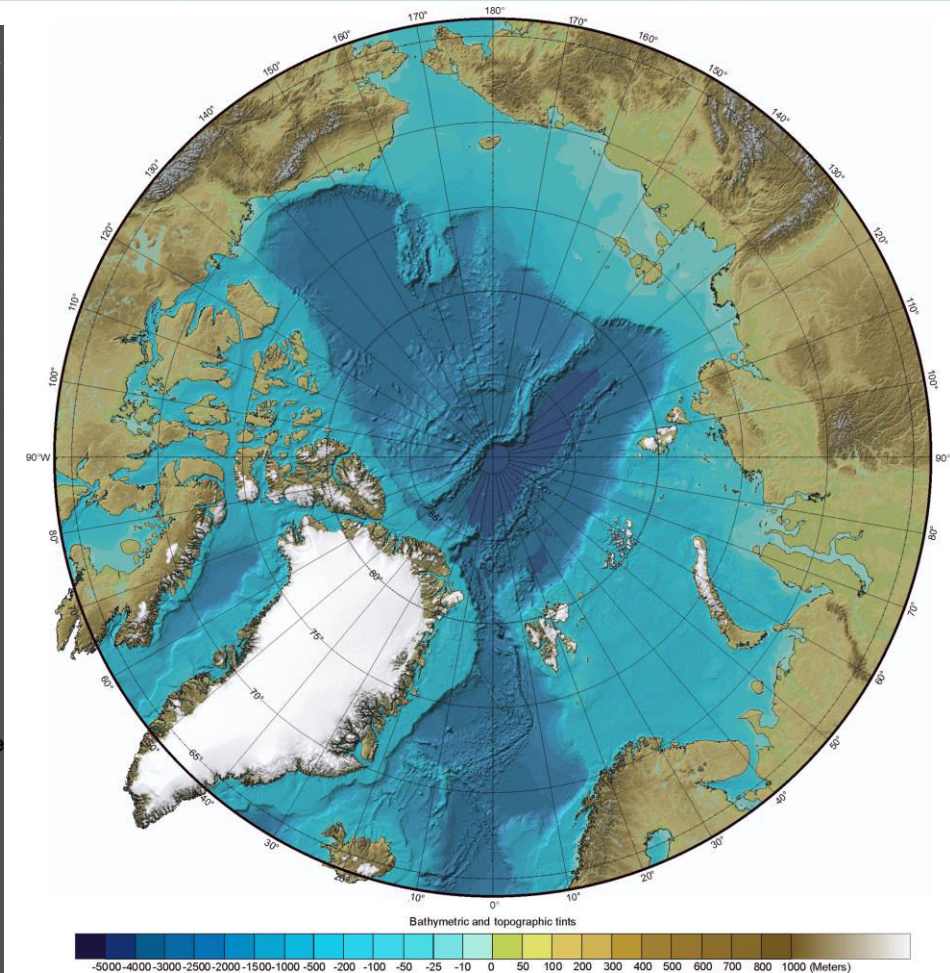
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<https://usicecenter.gov/PressRelease/ArcticMinimum2022>



<http://nsidc.org/arcticseaicenews/files/2012/07/Regions.png>

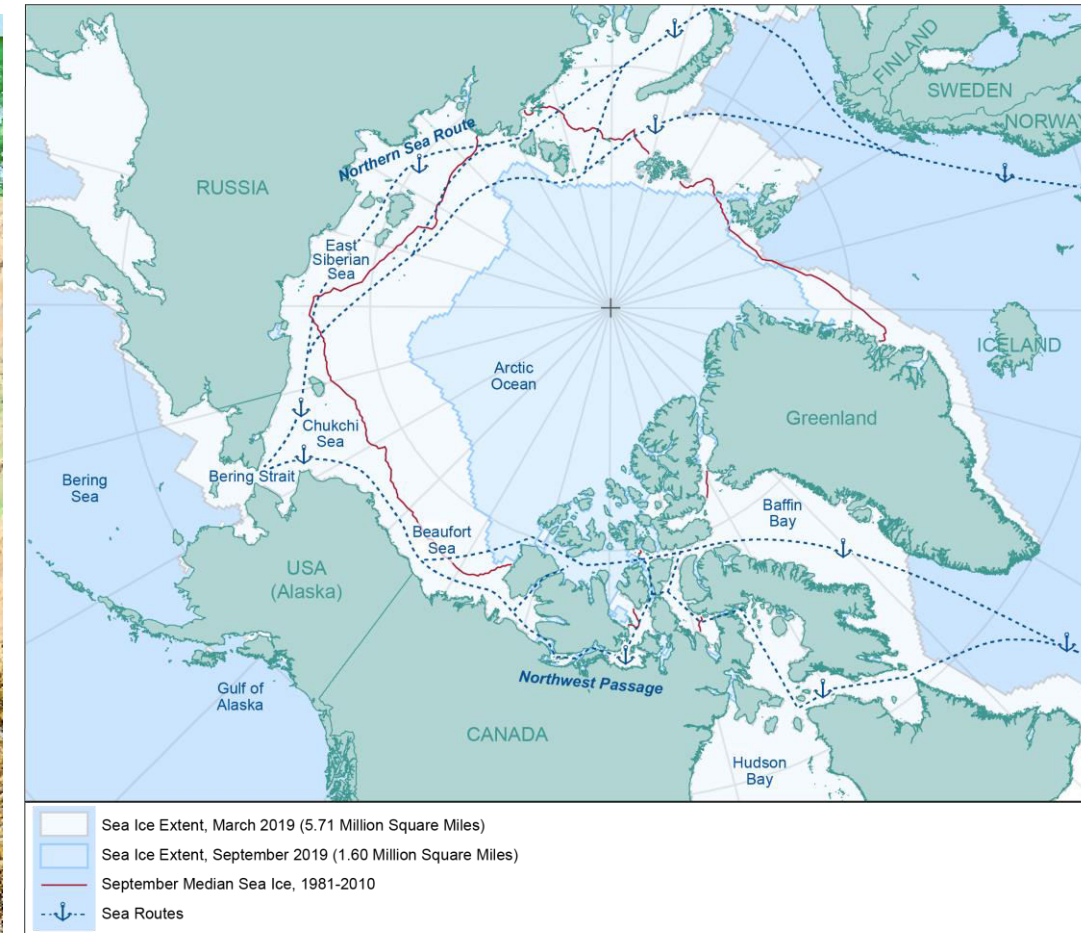
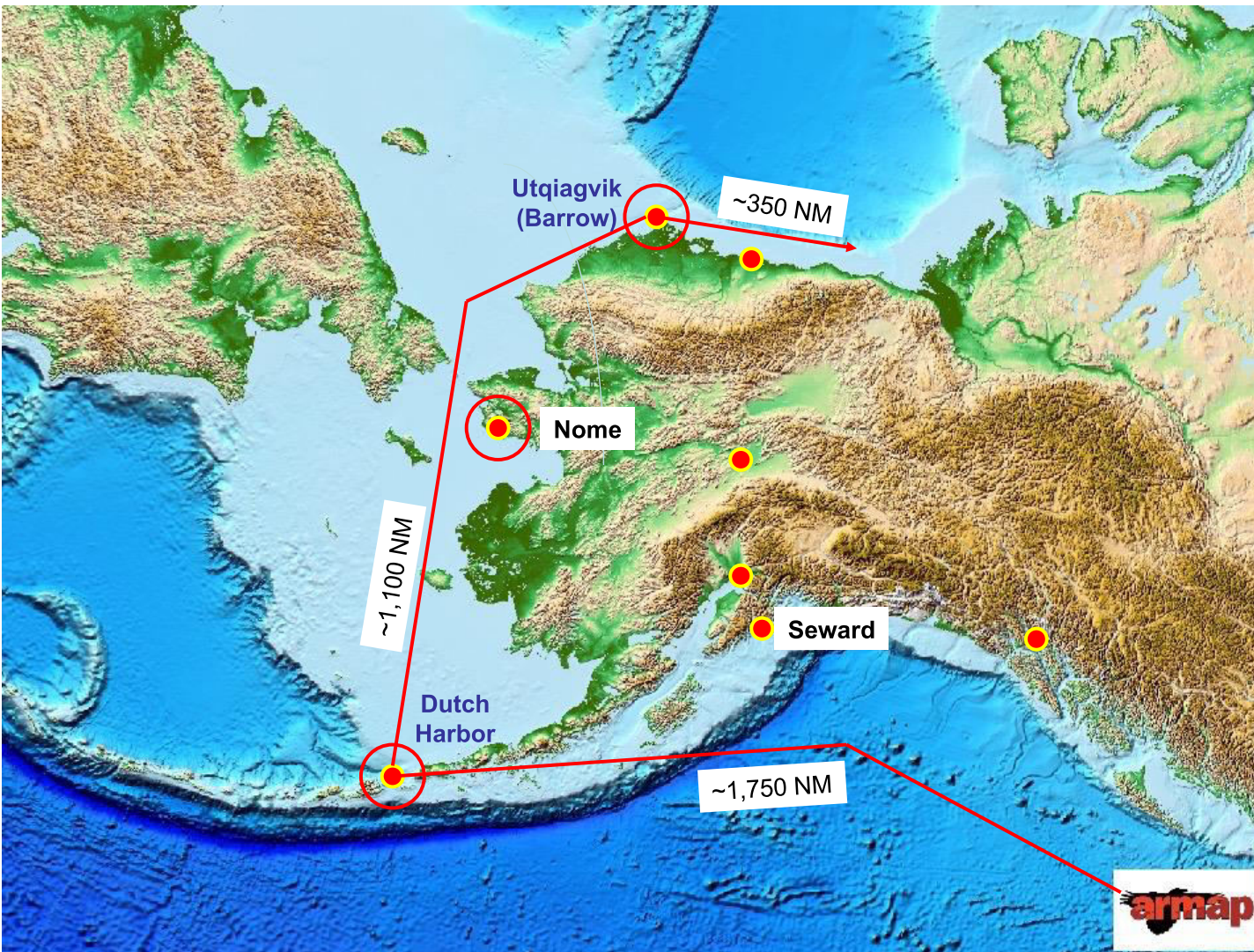


https://www.ngdc.noaa.gov/mgg/bathymetry/arctic/images/IBCAO_ver1map_letter_low.jpg

Interagency Perspectives on the Arctic



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Sources: GAO analysis of National Snow and Ice Data Center; Office of Naval Intelligence; Map Resources. | GAO-23-106411

Trans-Arctic Maritime Routes and Arctic Sea Ice Extents from March and September 2019 Compared with the September Median, 1981 to 2010 (From: GAO-23-106411, Figure 2).

Swedish Polar Research Secretariat (SPRS): Arctic Planning for Swedish IB ODEN in 2024



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Swedish Icebreaker ODEN: GEOEO cruise – August - September 2024
<https://www.polar.se/en/expeditions/geoeo-2024/>

In August – September 2024, the GEOEO-expedition with I/B Oden will go to Northern Greenland and the adjacent Arctic Ocean, including the Lincoln Sea.

GEOEO addresses scientific questions focused on providing new knowledge on the marine cryosphere's dynamic history and response to future climate change, including implications for marine and terrestrial ecosystems in North Greenland and the adjacent Arctic Ocean and the North Greenland Ice Sheet's contribution to global sea-level rise.



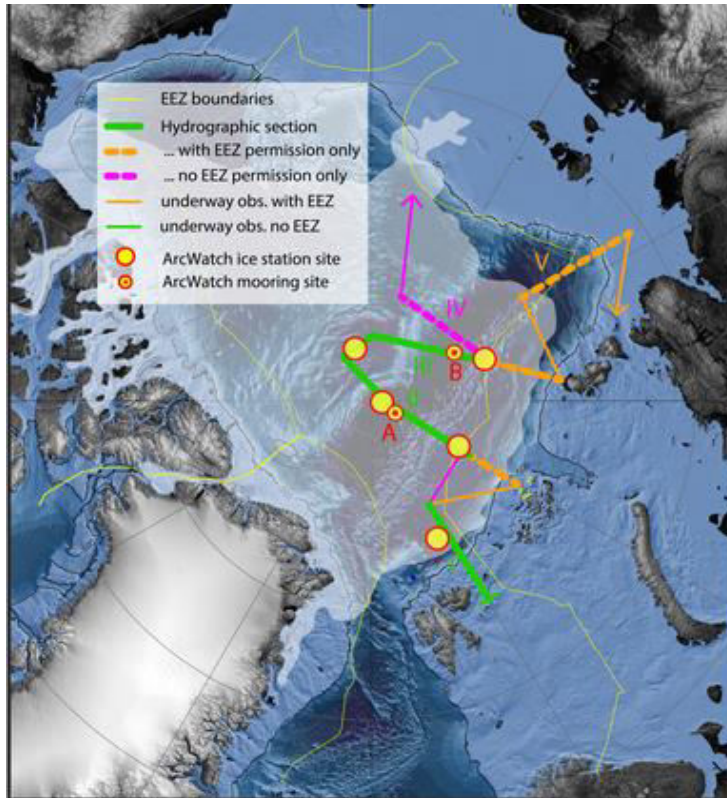
Alfred Wegener Institute (AWI): Arctic Planning for German IB POLARSTERN in 2024



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The Alfred Wegener Institute (AWI) who operate the German icebreaker POLARSTERN have a long-term plan online: <https://www.awi.de/en/about-us/logistics/schedules/polarstern-longterm-cruise-planning.html#c75679>

In 2024 they are planning to go into the central Arctic (PS143; Project: ARCWATCH 2 (GPF 20-2_070)).



This expedition forms part of a framework of international consortia (GEOTRACES, ArcWatch-LTO). It is supported by FRAM observatory technology and contributes to a time series of four expeditions to the CAO in the POF4 “Changing Earth – Sustaining our Future” starting in 2022 (ArcWatch 1-4).

Arctic Research Support and Logistics Program: ARMAP/AOV developments



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Arctic Research Mapping Application

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Use ARMAP to see the Who, What, Where, and When of U.S. Arctic Science.



For slower internet connections, please [CLICK HERE](#) to try the streamlined version to obtain access to basic information.

Please use Chrome, Safari, Firefox, or Edge as your web browser. The Viewer will not function properly with Internet Explorer.

The Arctic Research Mapping Application is designed for funding agencies, logistics planners, research investigators, students, and others to explore information about science being conducted across the Arctic. Hundreds of project locations and ship tracks are shown on the interactive web map, with easy access to details on funding agency, funding program, scientific discipline, principal investigator, project title, and much more.

<https://armap.org/>

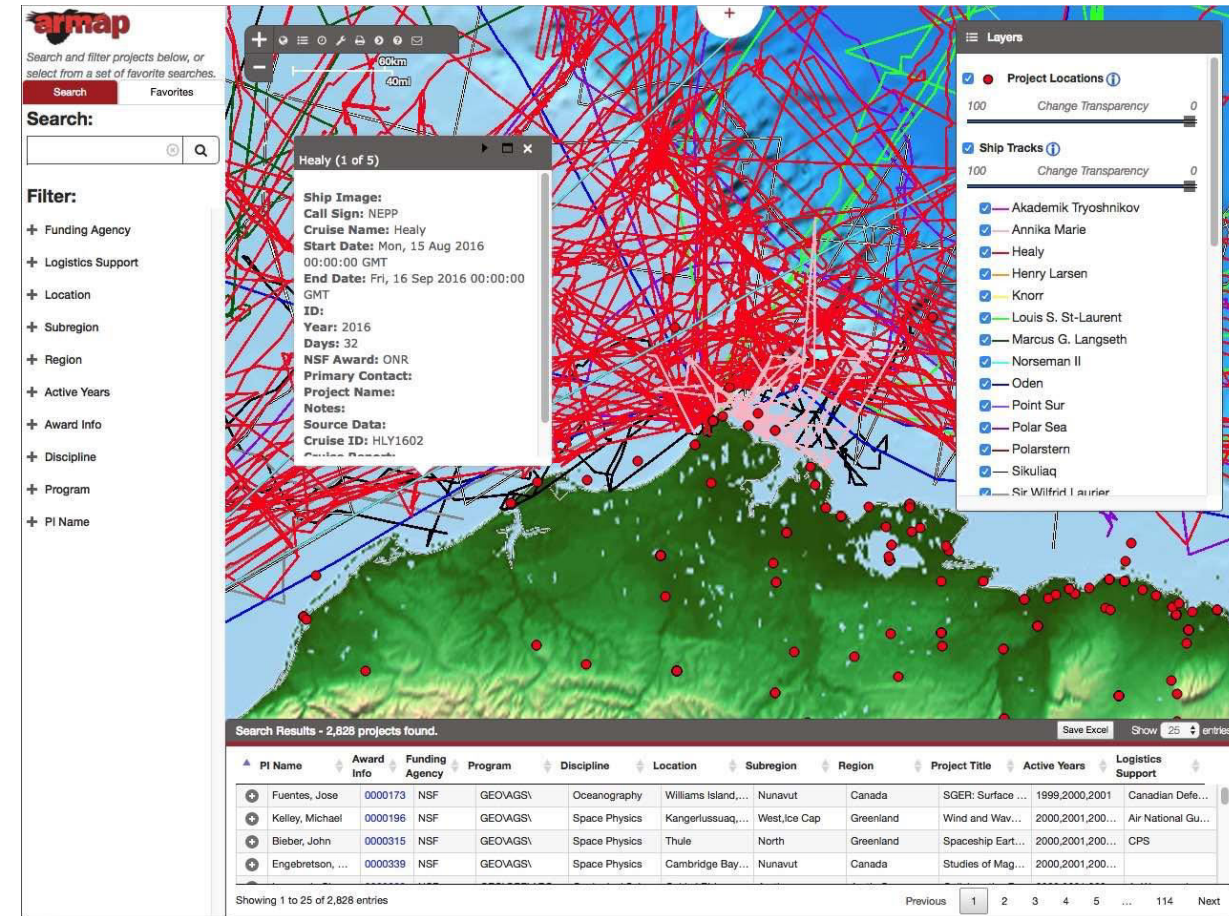
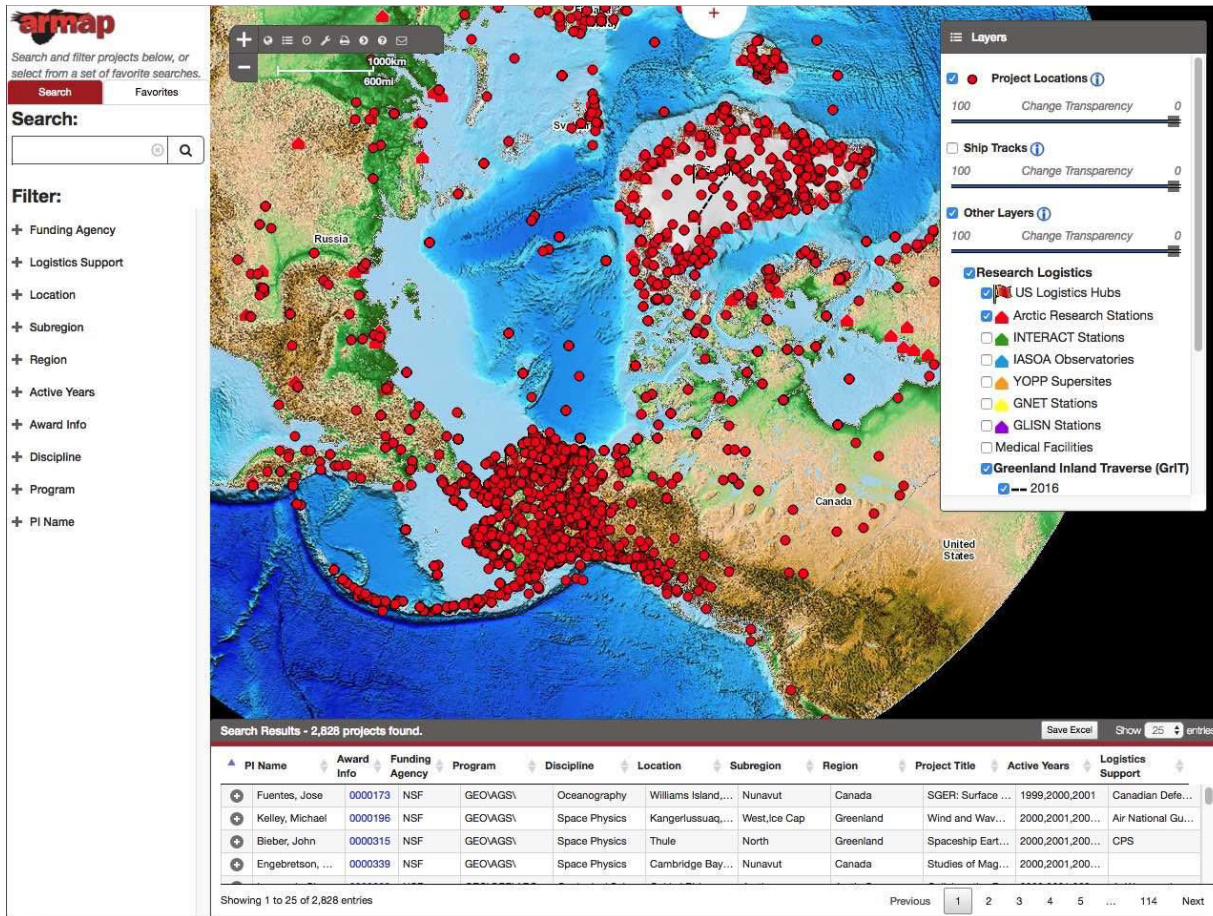


<https://arcticobservingviewer.org/>

Arctic Research Support and Logistics Program: ARMAP/AOV developments



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<https://armap.org/>

<https://battellearcticgateway.org/>

https://armap.utep.edu/armap_viewer/
https://arcticobserving.utep.edu/aov_viewer/

