

OFFICE OF  
POLAR PROGRAMS

# USA Update to FARO 2025

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Office of Polar Programs (OPP)

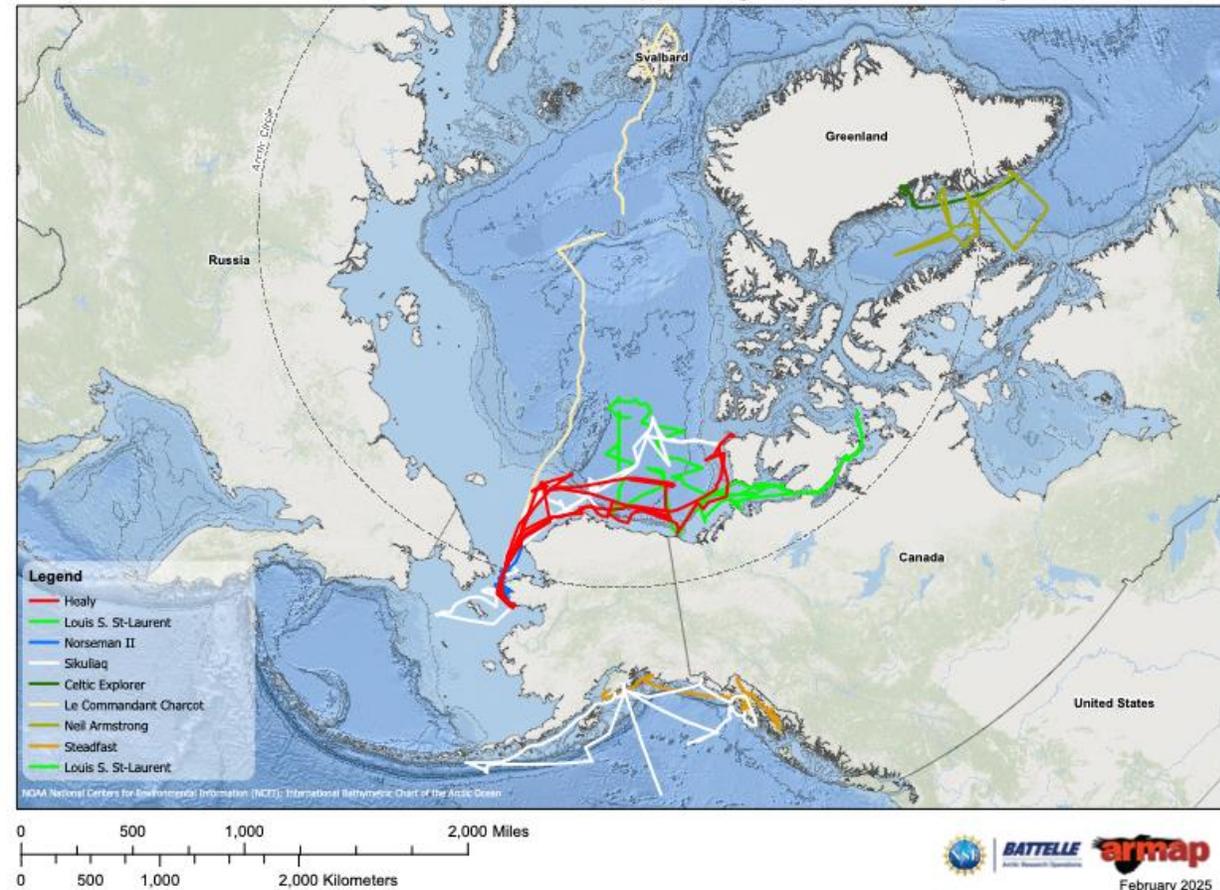


U.S. National Science Foundation  
WHERE DISCOVERIES BEGIN

# Vessel/Icebreaker Projects

- U.S. NSF supports annual ship time on icebreakers and on regional and coastal vessels (5-10 cruises per year)
- NOAA has Arctic projects this year on *Dyson*, and *Sikuliaq*, and assorted fisheries work on smaller vessels
- IARPC has a list of vessel movements from past Arctic field seasons online: <https://www.iarpc collaborations.org/research-expeditions.html>

2024 Arctic Research Cruises Supporting NSF-Funded Projects



# 2025 Planned Vessel/Icebreaker Projects

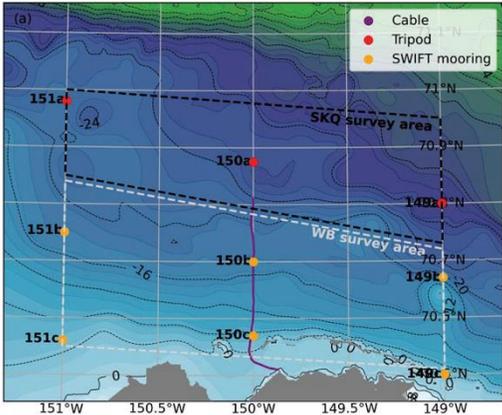
- **R/V Sikuliaq** – Alaska Coastal Cooperative Moorings – Chris Maio (PI, University of Alaska, Fairbanks): Bering Sea, July – August 2025 – Seward, AK to Nome, AK, [NSF].
- **R/V Sikuliaq** – DBO/EcoFOCI/AMBON-CEO – Jackie Grebmeier (PI, University of Maryland, Center for Environmental Science) and others: Chukchi Sea, August – September 2025 – Nome, AK to Kodiak, AK, [NOAA]
- **R/V Sikuliaq** – Arctic Coastal Freeze (wave interactions with landfast ice) – Madison Smith (PI, WHOI): Beaufort Sea, Offshore Northern Alaska, near Oliktok Point, October – November 2025 – Nome, AK to Dutch Harbor, AK [NSF].
- **USCGC Healy** – Nansen and Amundsen Basin Observational System (NABOS) – Igor Polyakov, Laura Whitmore (Co-PIs, University of Alaska, Fairbanks): East Siberian Sea, September - October 2025 - Kodiak, AK to Nome, AK, [NSF].
- **R/V Norseman II** – Bering Strait Moorings – Rebecca Woodgate (PI, University of Washington): Bering Strait, July 2025 – Nome, AK to Nome, AK, [NSF].

# 2025 Planned Vessel/Icebreaker Projects

- **CCGS Louis S. St-Laurent** (joint cruise with Department of Fisheries and Oceans, Canada) – Joint Ocean Ice Study/Beaufort Gyre Observing System (JOIS/BGOS) NSF-DFO cruise – Mary-Louise Timmermans (U.S. PI, Yale U): Beaufort Sea, August – September 2025, Cambridge Bay, Nunavut, Canada and return, [DFO and NSF].
- **CCGS Sir Wilfrid Laurier** (Department of Fisheries and Oceans, Canada) – NSF-DFO joint cruise related to the Distributed Biological Observatory (DBO) – Jackie Grebmeier (UMD-CES): Chukchi Sea, July 2025, Victoria, BC, Canada to Utqiagvik, AK, [DFO and NSF].
- **R/V Steadfast** – LeConte Glacier Fjord – Jesse Cusack (PI, Oregon State University) – August 2025, Inside Passage, Petersburg, AK and return, [NSF].
- **R/V Tarajoq** – Sermilik Fjord, East Greenland – Fiametta Straneo (PI, UCSD-Scripps Institution of Oceanography, Harvard University) – TBD Dates and Ports, [NSF].

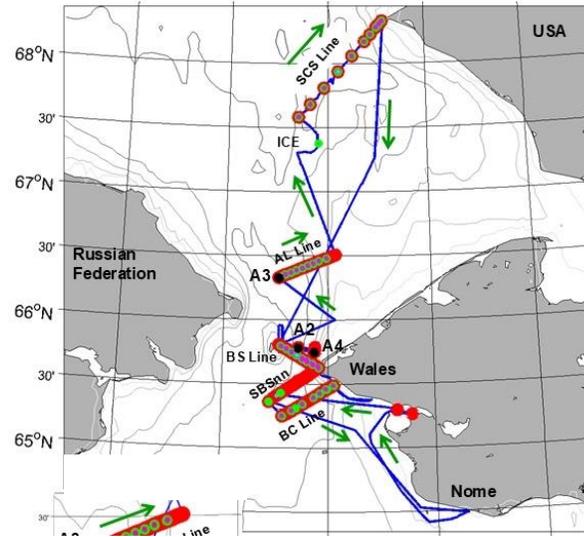
# Vessel/Icebreaker Projects: Operating Areas

## Arctic Coastal Freeze 2025



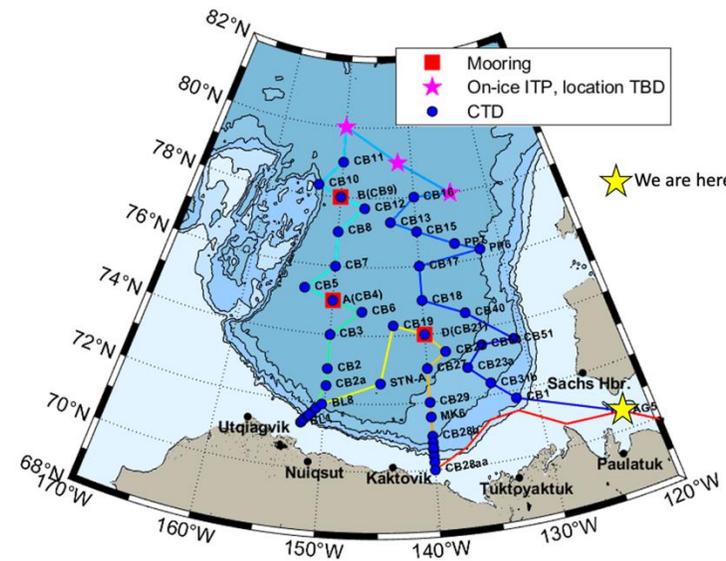
## Bering Strait Moorings 2025 (2024 Sites)

Bering Strait 2024 – track=blue, mooring sites= black, stations=color key below



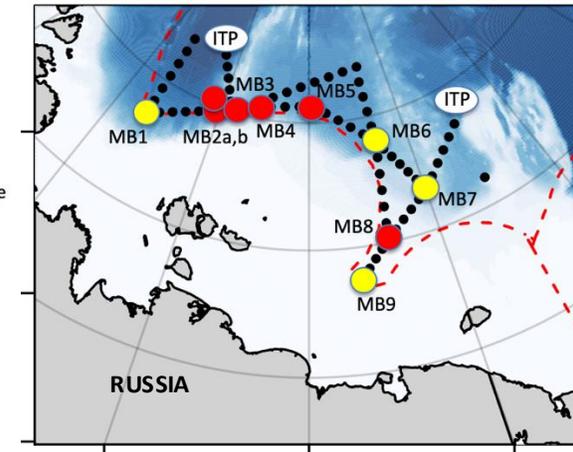
<http://psc.apl.washington.edu/HLD/Bstrait/NorsemanII2024Cruise.html>

## JOIS/BGOS 2025 (2024 sites)



<https://www2.who.edu/site/beaufortgyre/>

## NABOS 2025



- - Moorings for recovery only
- - Moorings for recovery and redeployments

<https://uaf-iarc.org/nabos/>

<https://www2.who.edu/staff/madisonsmith/coastal-freeze/>

## AK Coastal CoOp 2025



<https://alaskacoastal.org/>

# International infrastructure access

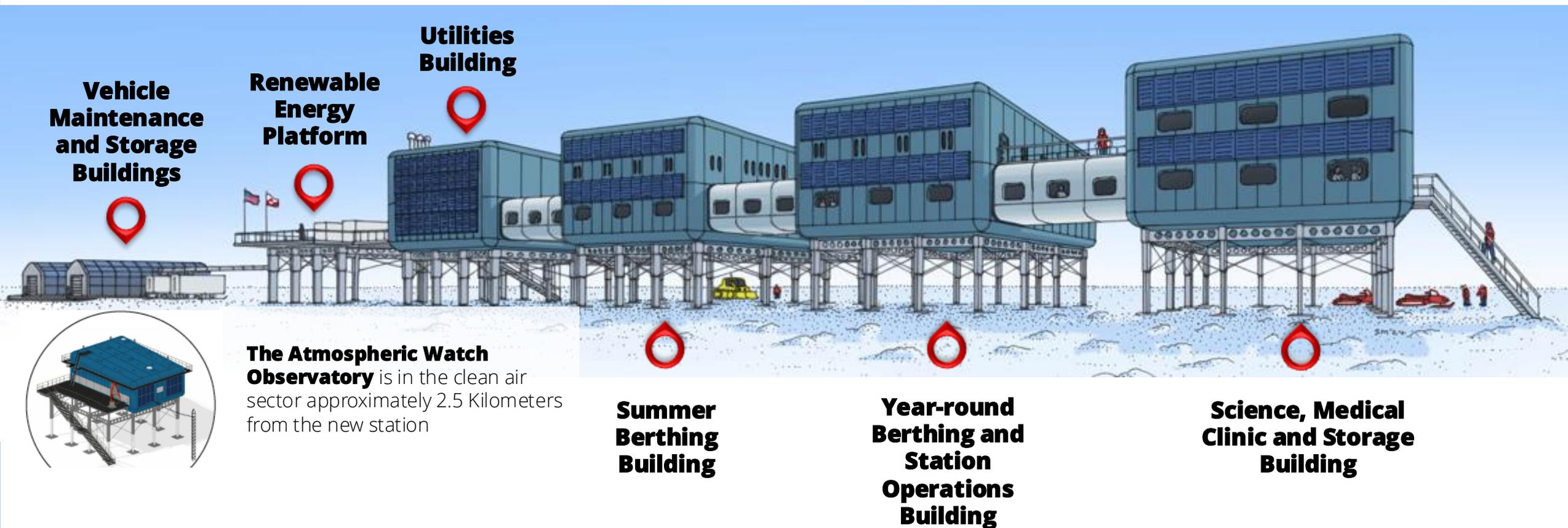
- International collaborations are negotiable at Summit Station and Toolik Field Station, both with reasonable day rates. Long-lead time coordination of planning and proposal preparation will assist with international access options
  - Please contact Battelle ARO and/or Toolik Field Station for more information
- Pituffik Space Base
  - Please contact Kate Ruck at US NSF ([kruck@nsf.gov](mailto:kruck@nsf.gov)) for more information
- Interactive Map Resources:  
<https://battlearcticgateway.org/maps/>

ARMAP (Arctic Research Mapping Application),  
Research Cruise Viewer, Alaska Lands Viewer



# Summit Modernization & Recapitalization (SuMR) Concept

- This proposed effort replaces 30 existing structures with five elevated buildings and two surface level buildings
- Now at the 60% design stage, SuMR would provide adequate heated indoor science and living space



# Contact Information

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**Battelle ARO contact form:** [https://battlearcticgateway.org/contact\\_us](https://battlearcticgateway.org/contact_us)

**Toolik Field Station Contact Page:** <https://www.uaf.edu/toolik/about/people.php>