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USCGC *Healy*

AICC January 2026



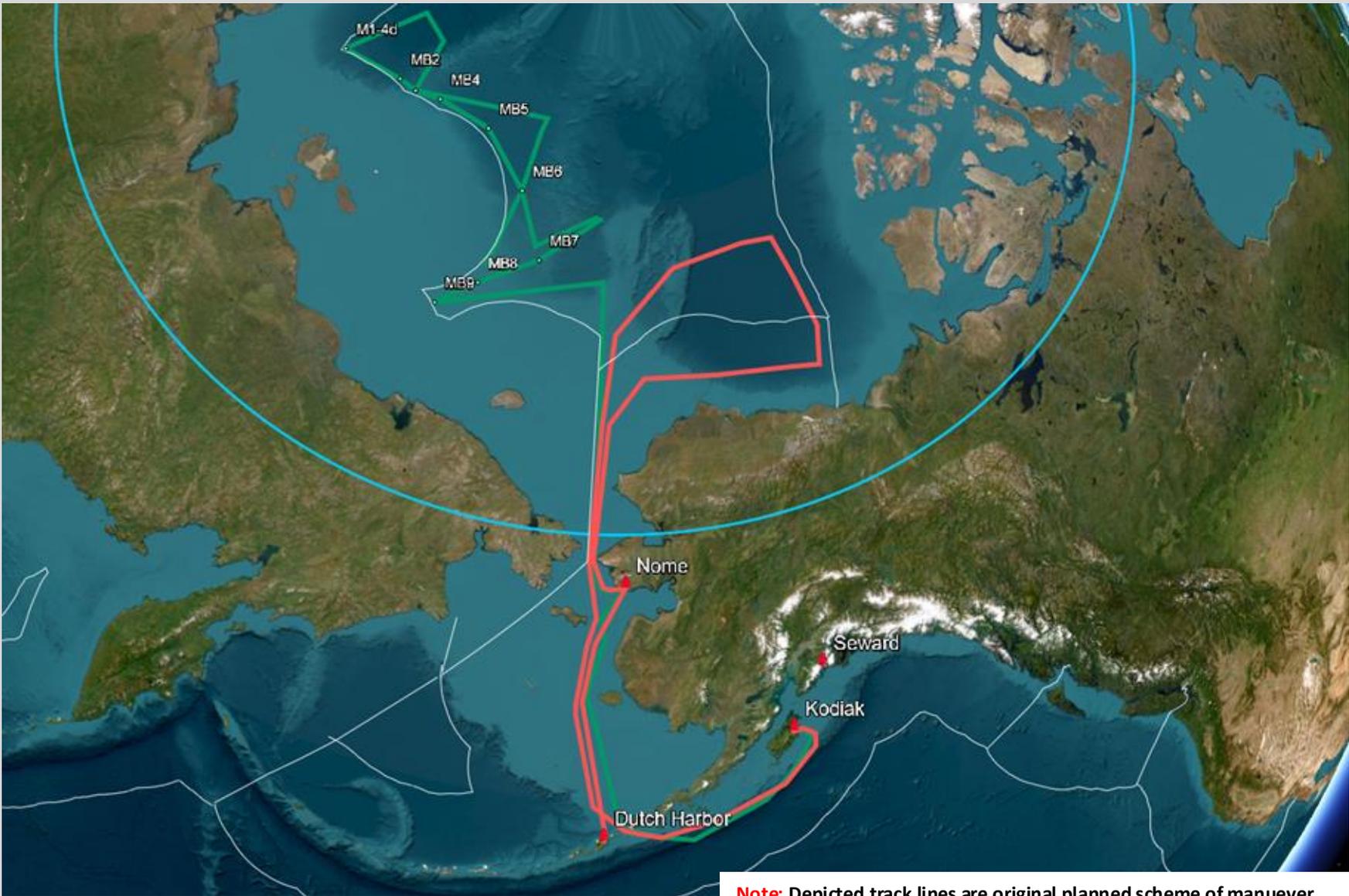
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Phase 1 – Pre-Deployment Ice Trials (not shown)
Timeframe: 19 Jun - 11 Jul
Port Calls: Seattle – Dutch Harbor
Operations: Ice trials in Chukchi/Beaufort Seas
 - Required post-drydock

Phase 2 – Arctic Mobile Observing System (AMOS)
Timeframe: 11 Jul - 15 Aug
Port Calls: Dutch Harbor – Nome – Kodiak
Operations: AMOS with Office of Naval Research and University of Washington Applied Physics Lab (UW APL)
 - Science team embarkation in Nome enroute
 - Mid-patrol break in Kodiak

Phase 3 – Nansen & Amundsen Basin Observation System (NABOS)
Timeframe: 15 Aug – 9 Oct
Port Calls: Kodiak – Nome – Dutch Harbor – Seattle
Operations: USCG Operation Frontier Sentinel; NABOS with NSF and University of Alaska Fairbank’s International Arctic Research Center (UAF IARC)
 - MEDEVAC
 - Operation Frontier Sentinel
 - Science team disembark in Nome



Note: Depicted track lines are original planned scheme of maneuver



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Phase 1 – Pre-Deployment Ice



Bollard Push
Test



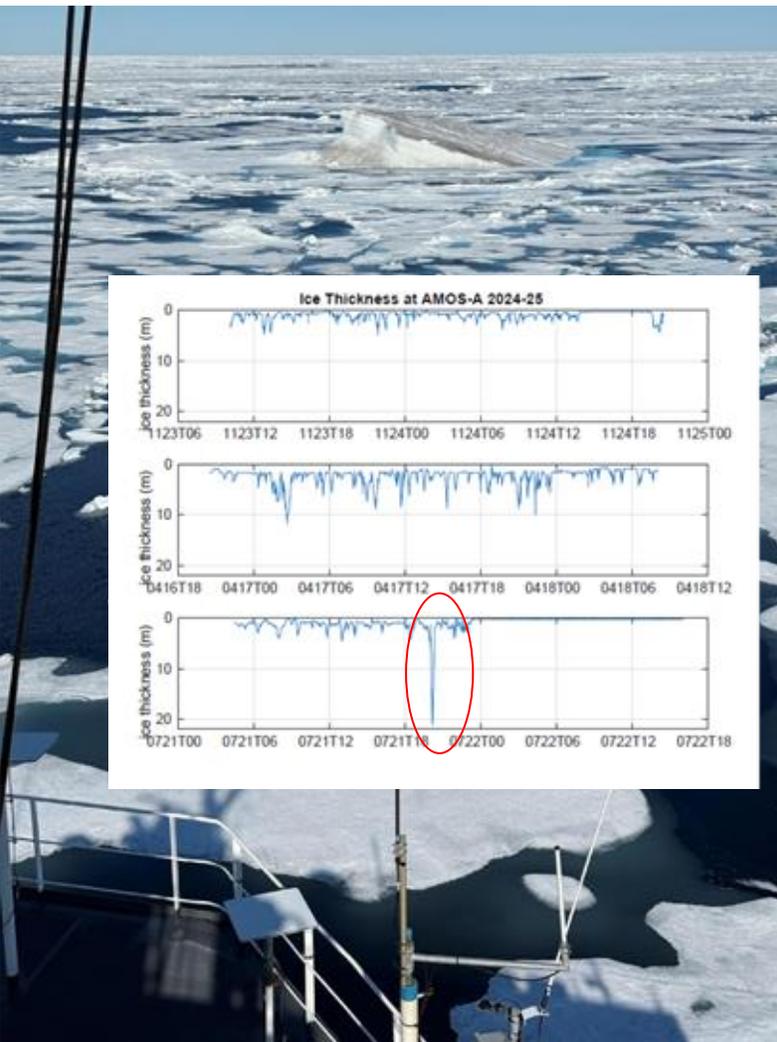
Level Ice
Trials



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Phase 2 – Arctic Mobile Observing System (AMOS)

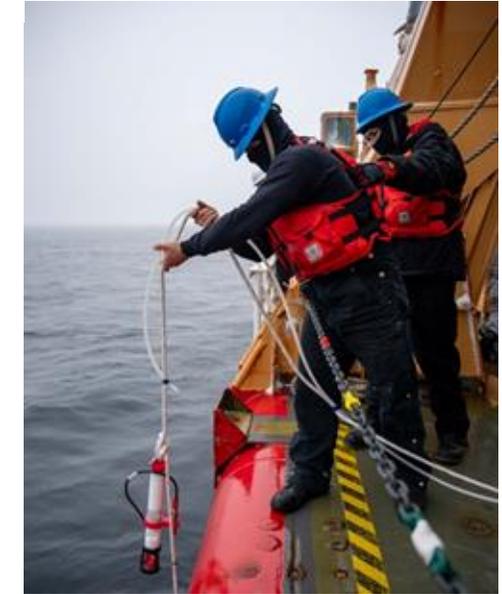




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Phase 3 – Nansen & Amundsen Basin Observation System (NABOS)



NABOS is long-standing, international study of the Siberian Arctic that covers an area of high importance for predicting Arctic changes, and historically low observations.

NABOS 2025: 18 scientists from 8 institutions, 60 stations



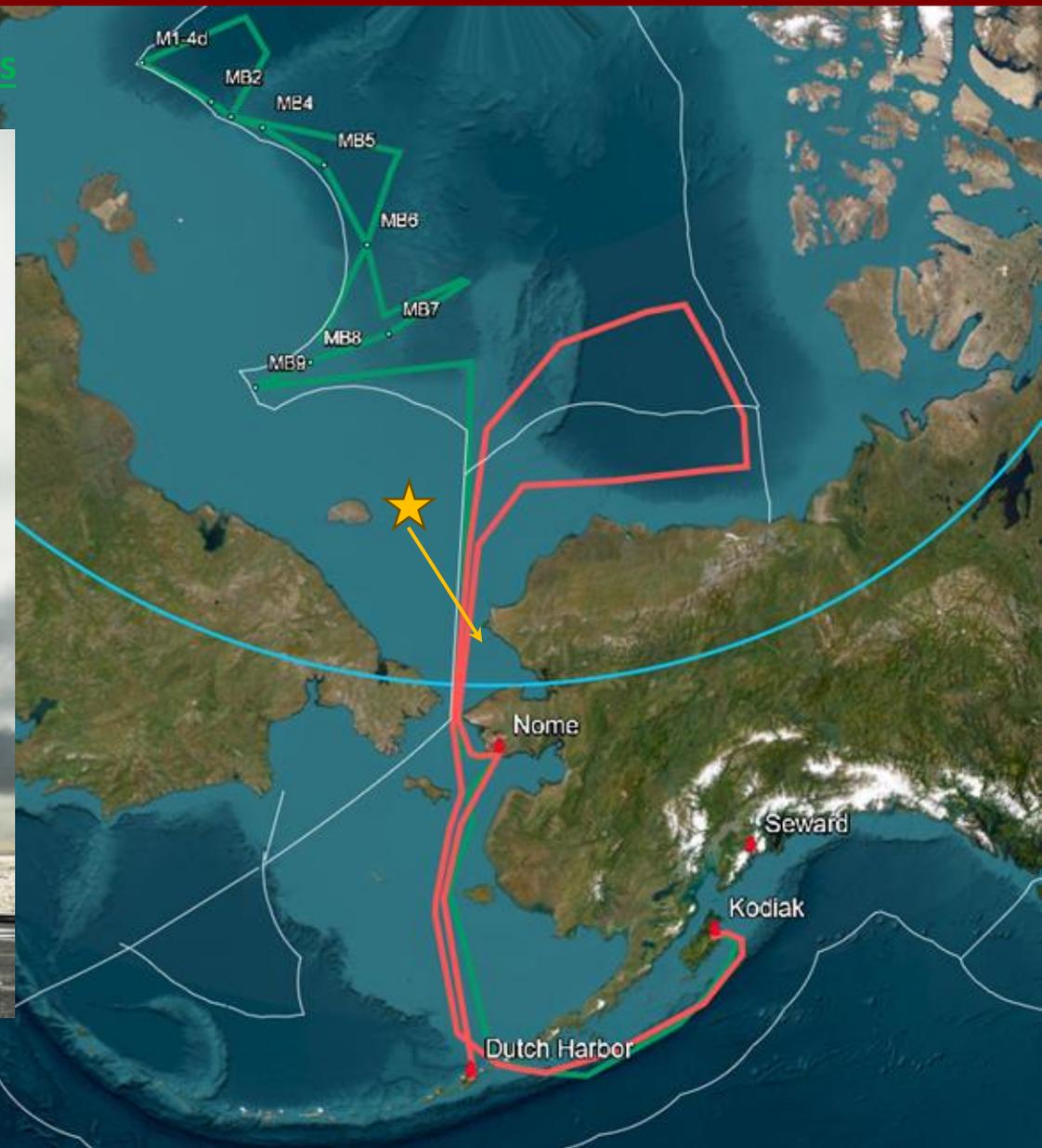


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Phase 3 - Delays

Over 300NM mile run back to Kotzebue for MEDEVAC





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Phase 3 –Operation Frontier Sentinel

Healy diverted from the planned science mission to monitor Chinese-affiliated research vessels' actions while they operated on or near the U.S. ECS.

5 Coast Guard days allocated, 12 used



- Straight Arrow News**
US Coast Guard deploys two polar icebreakers to Arctic Ocean
The U.S. Coast Guard is operating two polar icebreakers – the Healy and Storis – in the Arctic simultaneously for the first time since 2013.
Aug 28, 2025
- The Maritime Executive**
U.S. Coast Guard Keeps Close Watch on Chinese Icebreakers off Alaska
The U.S. Coast Guard has been closely watching China's Arctic research flotilla for the past month, and continues to monitor the operations...
Sep 3, 2025
- United States Coast Guard News (.mil)**
U.S. Coast Guard bolsters surface presence and responds to 2 Chinese research vessels in the Arctic
JUNEAU, Alaska – The U.S. Coast Guard responded to two Chinese research ships operating offshore Alaska between Sunday and Tuesday.,
Sep 3, 2025
- gCaptain**
US Coast Guard Operates Two Polar Icebreakers in Arctic Simultaneously For First Time in More Than a Decade
U.S. polar icebreakers Healy and recently acquired Storis are currently operating to the north of the Aleutian Island chain in the American...

Coast Guard Deploys Icebreaker Healy to Respond to Chinese Ships near Alaska

BY CAITLYN BURCHETT
SEPTEMBER 4, 2025 5:28 PM



The China-flagged research vessel Ji Di operates approximately 265 miles northwest of Utqiagvik, Alaska, Sept. 2, 2025. The Coast Guard Arctic District deployed USCGC Healy (WAGB-20) to monitor the vessel. US Coast Guard photo





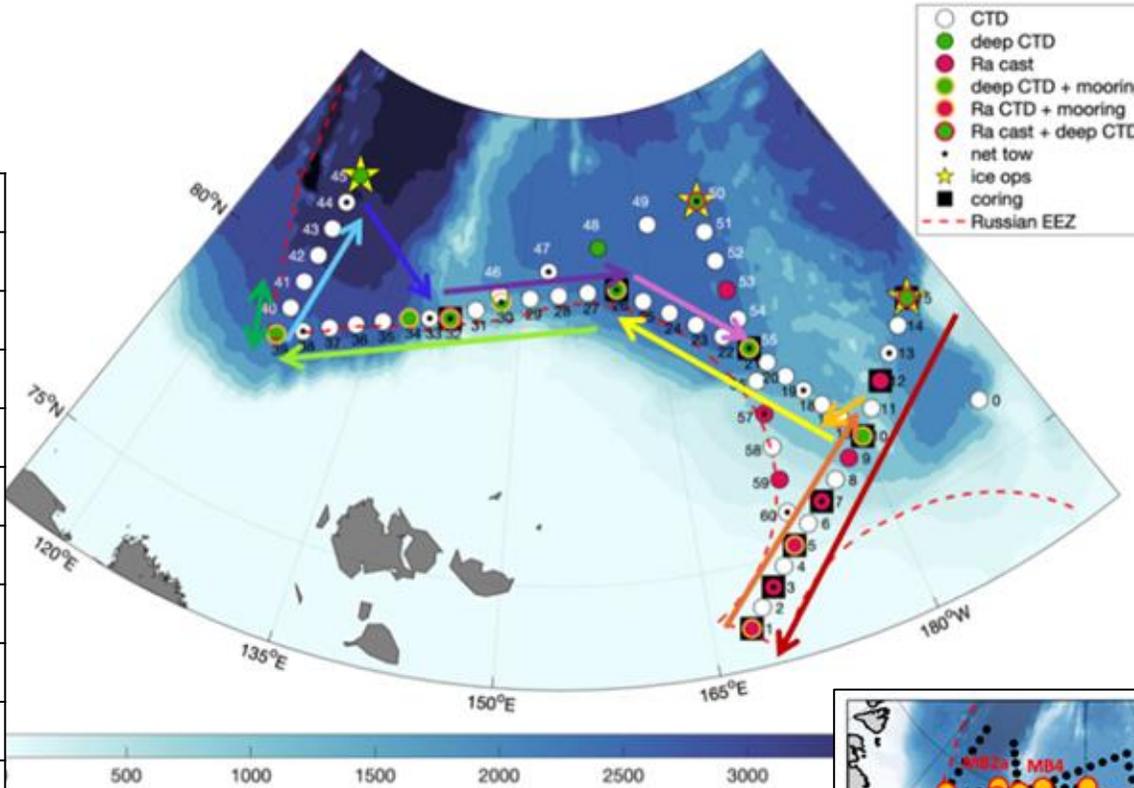
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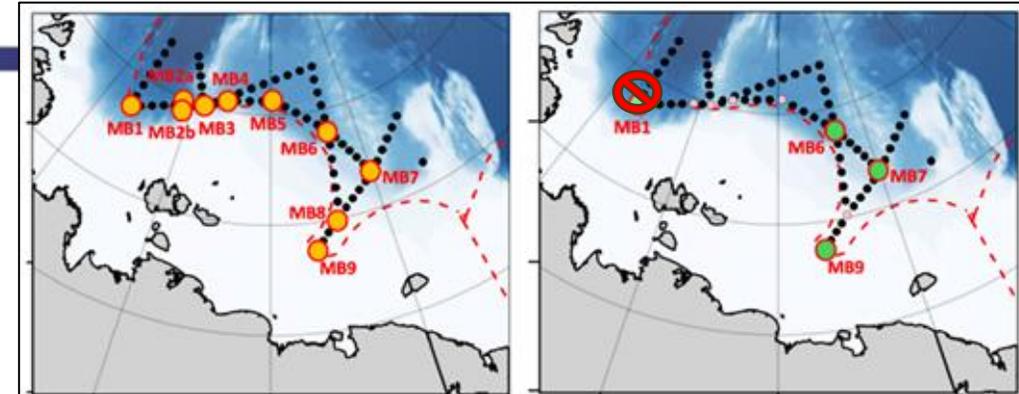
Phase 3 – Nansen & Amundsen Basin Observation System (NABOS)

~79% of original objectives met

Operation	Planned	Completed
Chemistry Stations	60	44
CTD Casts	60	44
Radium CTD Casts	13	9
Zooplankton Net Tows	15	19
Radium Pump	60	44
Trace Metal Pump	9	15
Mooring Recoveries	9	9
Mooring Deployments	4	3
Ice Stations	3	1
ITP Deployments	3	2
AXIBs	6	6
SVPs	5	5
Sediment Coring*	10	0



- Daily planning meetings
- Small efficiencies
- Improved ice navigation
- Teamwork!





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Phase 3 – Nansen & Amundsen Basin Observation System (NABOS)





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Additional Projects Supported

- **Signal of Opportunity for Atmospheric Refraction (SOAR) from Johns Hopkins University.**
Receiver-only antennas installed onboard *Healy* studying radio frequency propagation at high latitudes for the Office of Naval Research's Ocean Battlespace Sensing Program.
 - **International Arctic Buoy Program (IABP)**
The IABP provides meteorological and oceanographic data for real-time operational purposes including forecasts, satellite verification, and model validation.
- Healy* deployed 9 AXIBs and 5 SVP drifters over the course of the deployment.

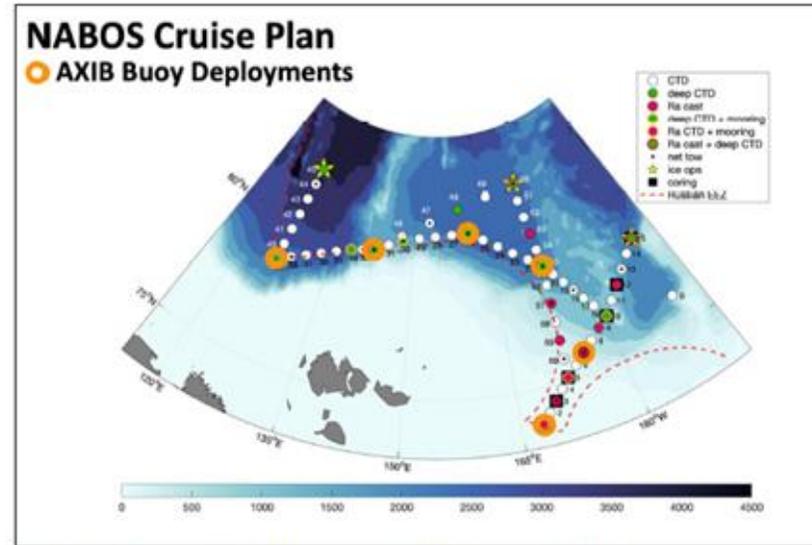


Figure 4. Proposed deployment sites for the AXIB buoys during NABOS.

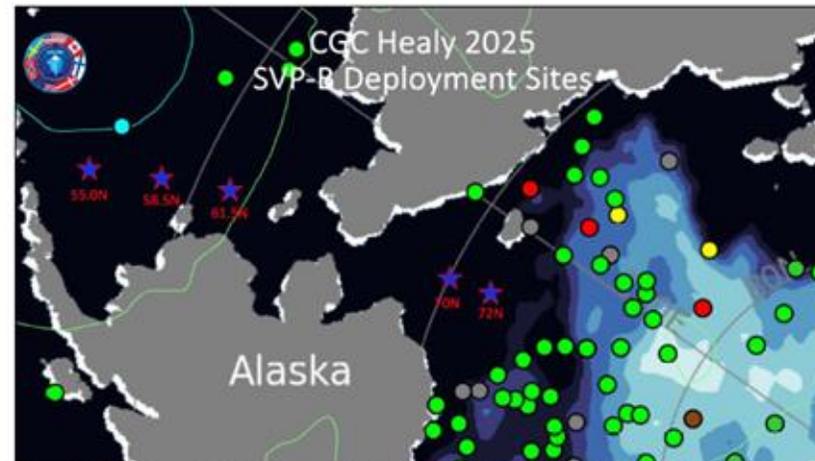
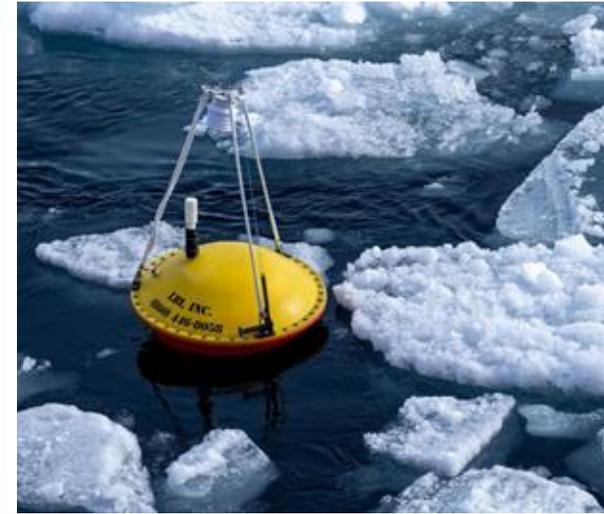
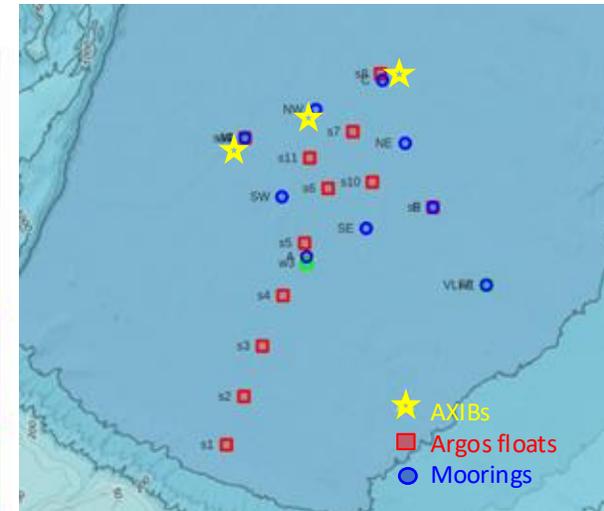


Figure 5. Blue stars indicate proposed deployments sites for SVP-B buoys during transits.





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Training



- Helo operations
- Boat operations
- Ice Pilot Training



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Acknowledgements

- Chief Scientists Dr. Gobat (AMOS) and Dr. Polyakov (NABOS) and their teams
- STARC
- Polar Science Network
- US National Ice Center
- International Observers: Royal Canadian Navy, French Navy, Finnish Border Guard, Norwegian Coast Guard
- Active duty and civilian support personnel onboard and ashore





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- 2026 Maintenance Drydock Availability
 - 4 month drydock availability
 - Vigor Portland, 44 work items
 - 12 Jan – 19 May
 - Installation of new Multi-Beam sonar (SLEP)
 - Removal and renewal of Propulsion Shafts
 - Bow Thruster repairs
 - Crane/A-Frame/Winch inspect and repairs
 - Science control system groom
- Concurrent non-DD work
 - General Electric
 - Low Voltage Switchboard Installation, tentatively scheduled
 - Science seawater ice-grinder integration
 - Ship Led items
 - Crane Smart Install
 - Refrigeration unit grooms
 - Science seawater reliability upgrades





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- Future work
 - Service Life Extension Project (SLEP) - next 5+ years
 - Dockside 2027, 2028, 2030, 2031
 - Drydock 2029
 - 110 additional SLEP work items
 - Projects to restore outdated systems
 - Extend lifespan ~25 years
- Predicted Outstanding items for 2026 Deployment
 - Potential Drydock delays
 - WIFCOM/Pager System upgrades
 - Helo Hangar Door
 - Oily Water Separator
 - Incinerator efficiency





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Looking Ahead

We look forward to supporting Arctic science once again in 2026!

