

# NSF Report to the UNOLS AICC Meeting

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[https://www.nsf.gov/geo/opp/arctic/res\\_log\\_sup.jsp](https://www.nsf.gov/geo/opp/arctic/res_log_sup.jsp)



## NSF-funded 2021 Cruises on US Vessels (UNOLS, USCG, Chartered)

**R/V Sikuliaq** – Mercury Air-Sea Exchange in the Arctic – Robert Mason (UConn-Avery Point) – 5/20/21 to 6/14/21, Dutch Harbor, AK to Seward, AK – measurements in open water and under sea ice in Chukchi Sea [[NSF-OPP-ANS-1854454](#)]

**R/V Sikuliaq** – Chukchi Edges II geophysical survey cruise – Bernard Coakley (UAF) – 8/10/21 to 9/30/21, Seward, AK to Nome, AK [[NSF-OPP-ANS-1916575](#)]

**USCGC Healy** – transit through the NW Passage (HLY21TD), **science accommodation cruise** – Larry Mayer (UNH) – 8/25/21 to 9/13/21, Seward, AK to Nuuk, Greenland; [[NSF STARC technician support](#), [NSF science project funding](#); [NGIA gravimeter tests](#), [NOAA/Nippon Foundation GEBCO Seabed2030 mapping](#)]

**USCGC Healy** – Baffin Bay cruise (HLY21-01), **science accommodation cruise** – Bob Pickart (WHOI) – 9/13/21 to 10/14/21, Nuuk, Greenland to Boston, MA [[NSF-OPP-ANS-2034801 RAPID](#)]

**R/V Norseman II** – Bering Strait AON – Rebecca Woodgate (UW) – 9/1/21 to 9/16/21, Nome, AK to Nome, AK [[NSF-OPP-AON-1758565](#)] – Battelle-ARO Contract Charter

**R/V Ukpik** – Arctic Shelf Sediment Pathways – Emily Eidam (UNC-CH) – 7/26/21 to 8/9/21, West Dock Prudhoe Bay, AK and back – measurements in Harrison Bay and vicinity [[NSF-OPP-ANS-1913195](#)] – Battelle-ARO Contract Charter



## NSF-funded 2021 Cruises on International Vessels

**CCGS Louis S. St-Laurent** (Department of Fisheries and Oceans, Canada) – Joint Ocean Ice Study/Beaufort Gyre Observing System (JOIS/BGOS) NSF-DFO joint cruise – Mary-Louise Timmermans (Yale U) – 8/19/21 to 9/16/21, Cambridge Bay, Nunavut, Canada and back; [[NSF-OPP-AON-1950077](#)]

**CCGC Sir Wilfred Laurier** (Department of Fisheries and Oceans, Canada) – NSF-DFO joint cruise related to the Distributed Biological Observatory (DBO) – Jackie Grebmeier (UMD-CBL) – 7/5/21 to 7/25/21, Victoria, BC, Canada to Utqiagvik, AK [[NSF-OPP-AON-1917469](#)]

**R/V Akademik Tryoshnikov** (Arctic and Antarctic Research Institute, Russia) – Nansen and Amundsen Basin Observational Systems (NABOS) – Igor Polyakov (UAF) – 9/10/21 to 10/19/21, Kirkenes, Norway to Kirkenes, Norway – CTDs and moorings along the Russian EEZ boundary [[NSF-OPP-AON-1724523](#)]

**R/V Saana** (Greenland Institute of Natural Resources, GINR) – Davis Strait Observing System – Craig Lee (UW) – 8/2/21 to 8/7/21 – mooring deployments south of Baffin Island deferred from 2021 cruise [[NSF-OPP-AON-1902595](#)]

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**R/V Sikuliaq** – DBO/EcoFOCI recovery cruise – Jackie Grebmeier (UMD-CBL) and Seth Danielson (UAF) – 11/5/21 to 11/16/21, Nome, AK to Seward, AK [September 2021 NOAA cruise cancelled due to COVID, req. NSF assistance]



## USCGC Healy – NW Passage Transit (HLY21TD)

- Opportunity to conduct an NSF Site Visit to observe and better understand the requirements and constraints on the delivery of science support on USCGC Healy by STARC technicians working with C4IT and the USCG.
- Opportunity to discuss existing equipment, future needs and upgrade options, and the technical, operational, cybersecurity, and policy framework for implementing science support onboard USCGC Healy, as compared to global class vessels in the UNOLS academic research fleet, in preparation for the upcoming Ship Life Extension Program (SLEP) and discussions with the SLEP Integrated Project Team (IPT) over the coming months and years.

Special thanks to Captain Ken Boda, CDR Jess Worst (Executive Officer), CDR Phil Baxa (Operations Officer), LT Kevin Lowery (Asst. Ops Officer), ENS Valerie Hines (Marine Science Officer), the Galley team, and the other officers and crew of the USCGC Healy, for the opportunity to sail on the transit and learn about the capabilities of the vessel as a platform for science.

Additional thanks to Sarah Kaye (C4IT), the STARC team (Brendon Mendenhall, Adam Stenseth, Kate Kouba, and Maxwell Hughes), as well as everyone else in the science party or USCG who took the time to explain the scientific, technical and operational details of their work to me during the cruise.



## Other Issues and Announcements

- The NSF Arctic Science Section and RSL Program Program Officers are seeking UNOLS AICC advice about how to develop a process to identify and select **ancillary projects** (when space is available and there is alignment with cruise planning) in a manner that is both transparent to the community and equitable, and which also allows inter-agency or international partnerships and collaborations to be identified and tracked in a proactive way. **Can the UNOLS Marine Facilities Planning (MFP) system be used to document ancillary project requests and initiate pre-cruise discussions, as needed?**
- The NSF-RSL Ship-based Science Technical Support in the Arctic (STARAC) solicitation (**NSF 22-528**) is currently online, with a proposal submission deadline of March 1, 2022. NSF requests AICC suggestions for reviewers. ([https://www.nsf.gov/publications/pub\\_summ.jsp?WT.z\\_pims\\_id=503383&ods\\_key=nsf22528](https://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=503383&ods_key=nsf22528)).
- Captain Ken Boda and others are presenting a keynote talk on the USCGC Healy's NW Passage voyage on January 24th at the **2022 Alaska Marine Science Symposium**. People can register for the Symposium online for free until January 21st (<https://alaskamarinescience.org/register>).





# Thank You! Any Questions?



Photo by Bill Schmoker (PolarTREC 2010), ARCUS



<https://www.supportvesselsofalaska.com/>



<https://inter-j01.dfo-mpo.gc.ca/fdat/vessels/81>



UAF-CFOS, Photo by Mark Teckenbrock

