

AINA NEWS

Update: The Return to Nova Zembla

Michael Moloney and Matthew Ayre returned to the site of the 1902 wreck of the Scottish whaling vessel *Nova Zembla* in late August 2019. The research team, including drone pilots Robert Kautuk (Ilisaqsivik Society, Clyde River) and Alex Taylor (RavenWest Professional Drone Services, Canmore, Alberta) met at Pond Inlet on 25 August 2019 where they took the opportunity to catch up with friends from the Ikaarvik: From Barriers to Bridges Inuit youth program. The group discussed the influence of the whaling trade on the community. In the late evening of 27 August, the team, joined by NRCAN geologist Tommy Tremblay, boarded the Government of Nunavut's research vessel *Nulijuk* and began the 12-hour transit down the coast of Baffin Island to the wreck site. The three-day forecast called for 40-knot winds and 3 m seas, but fortunately, the *Nulijuk* arrived on location the next day to calm and sunny conditions. The team wasted little time in landing on the beach where pieces of the wreck had been sighted during the 2018 survey. It was immediately obvious that much was missed during the short search window the previous year, as substantial amounts of debris from the wreck were spread across the entire 2 km stretch of beach (Fig. 1). Over the following two days, the team completed



FIG. 1. Moloney conducting a surface survey of the wreck site. Note the scatter of the ship's parts along the beach.

an aerial survey of the entire site and photographed much of the debris. Key discoveries included an over 50 ft section of hull, masts, pieces of rigging, and several pieces of ornately carved timber from the ship's bowsprit (Fig. 2). This latter find was confirmed through the acquisition of the only known painting of *Nova Zembla* from 1884, which was generously purchased by Dr. Ron Wallace and donated to the Institute (Fig. 3).

The weather finally closed in and after spending the night anchored in the safety of the nearby natural harbour, the passage down to Clyde River was made in heavy seas. Michael and Matthew would like to thank Robert Kautuk, Alex Taylor, Tommy Tremblay, and the crew of the *Nulijuk*

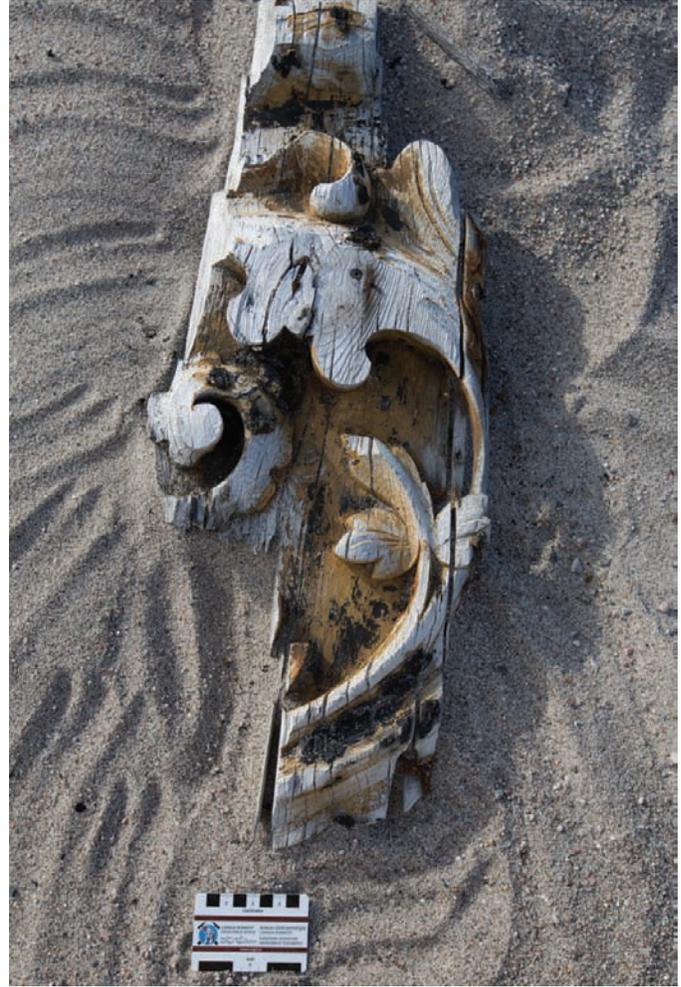


FIG. 2. Part of *Nova Zembla's* ornately carved bowsprit exposed on the beach surface.



FIG. 3. From the AINA collection, the 1884 painting of the *Nova Zembla* by James Orchison (1852–1943) of Kirriemuir, Scotland.

for their help and support during this year's return to the wreck. They would also like to extend their thanks to the communities of Clyde River and Pond Inlet, AINA,

University of Calgary's Department of Anthropology and Archaeology, the Government of Nunavut, the Royal Canadian Geographical Society, OneOcean Expeditions, Fjallraven, Mountain Equipment Co-op, Ittaq, Ilisaqsivik Society, and the Ikaarvik project, without whom this year's fieldwork would not have been possible.

Arctic on the Edge

AINA hosted a one-day symposium entitled "Arctic on the Edge" on 27 September 2019 at the University of Calgary. Students and faculty, as well as representatives from AINA, industry (Stantec and Explor Resources), and the government of Northwest Territories, presented short talks and posters on a range of Arctic topics. A panel session allowed discussants to address audience questions, and a reception closed the event. It was a great success, attracting 72 attendees who expressed interest in establishing the summit as an annual event.

International Study of Arctic Change at AINA Announces Meeting

The 5th biennial Arctic Observing Summit (AOS) will be held from 31 March to 2 April 2020 in Akureyri, Iceland, as part of Arctic Science Summit Week 2020. The AOS is a high-level, biennial summit that aims to provide community-driven, science-based guidance for the design, implementation, coordination, and sustained long-term (decades) operation of an international network of Arctic observing systems. The AOS is a platform to address urgent and broadly recognized needs of Arctic observing across all components of the Arctic system, including the human component. The AOS is an implementation activity of the International Study of Arctic Change (ISAC), whose office is housed at the Arctic Institute of North America, University of Calgary, and is a contribution to the Sustaining Arctic Observing Network (SAON) initiative.

The overarching theme of the 2020 Summit is "Observing for Action." Based on recommendations and priorities identified at previous Summits, AOS 2020 will be structured along the following sub-themes:

- Sub-Theme 1: Design, Optimization, and Implementation of the Observing System
- Sub-Theme 2: Observing in Support of Adaptation and Mitigation
- Sub-Theme 3: Observing in Support of Indigenous Food Security and Related Needs
- Sub-Theme 4: Data Interoperability and Federated Search
- Sub-Theme 5: Arctic Observations in the context of Global Observing initiatives

Please consider submitting a contribution to AOS in the form of a white paper (~ 2000 words) or a short statement (~ 800 words) that will serve to highlight important needs or gaps, explore emerging opportunities, address current and future challenges, present new initiatives or technology that can contribute to Arctic observing (including global programs), or review ongoing observing activities or issues. White papers and short statements that are linked to the five sub-themes will inform the Summit agenda, but white papers and short statements on topics relevant to Arctic observing are also encouraged. For additional information or to submit input, please contact Dr. Ravi Darwin Sankar at ravi.sankar@ucalgary.ca

In autumn 2020, Japan and Iceland will cohost the third Arctic Science Ministerial Meeting (ASM3) in Tokyo. AOS 2020 will provide an opportunity to collect input from the Arctic observing community, Indigenous organizations, local Arctic communities, the private sector, and others to prepare the ASM3 Joint Statement.

AINA Participation in Upcoming International Meetings

AINA researchers Ravi Sankar, Maribeth Murray, Shannon Christoffersen, and Kara Matthews have a busy winter preparing for participation in a number of international meetings. Three abstracts have been accepted for presentation at the American Geophysical Union Fall Meeting, 9–13 December 2019, in San Francisco, California:

Sankar, R.D., Matthews, K.J., and Murray, M.S. Mapping coastal change along Southwest Banks Island, Northwest Territories, Canada.

Sankar, R.D., Murray, M.S., Pulsifer, P., Christoffersen, S., and the CCADI team. The Canadian Consortium for Arctic data interoperability: Developing an integrated Canadian Arctic data management system.

Schlosser, P., Bradley, A., Sankar, R.D., Eicken, H., Hinzman, L., Kruemmel, E., Larsen, J.R., Murray, M., Pope, A., and Gunnarsson, T. The Arctic Observing Summit: Continued progress towards an integrated, multipurpose, international Arctic observing system.

The following abstract has been accepted for presentation at ISAR-6: Sixth International Symposium on Arctic Research, 2–6 March 2020, in Tokyo, Japan:

Murray, M.S., Sankar, R.D., Schlosser, P., Eicken, H., Hinzman, L., Larsen, J.R., Kruemmel, E., Pope, A., Rachold, V., and Pulsifer, P. 2020. The Arctic Observing Summit—accomplishments from 2013–2018, goals for 2020, and ongoing challenges.

Data and Information Services News—December 2019

The Arctic Institute of North America, in collaboration with the Canadian Consortium for Arctic Data Interoperability (CCADI), the Canadian Cryospheric Information Network, Polar Data Catalogue, Polar Knowledge Canada, and many other organizations, is pleased to announce the third Canadian Polar Data Workshop, a follow-up to previous Canada-wide consultations held in 2015 and 2017.

The Canadian Polar Data Workshop III (CPDW3) will be held 18–21 February 2020 at the Banff Centre

for the Arts in Banff, Alberta. The workshop will be structured to reach specific outcomes through working group sessions and consensus building on themes such as the need for a national data management strategy for Canada, data discovery and federated search, all aspects of data interoperability, and other themes related to polar data—broadly defined to include knowledge transfer and Indigenous data policies. The workshop will also include a hackathon to advance technical aspects of polar data management in Canada. All members of the Canadian polar data and research community are invited to participate. Members of the broader data community are also welcome to attend.