

Baffin Bay- Full-Year Observation 2026-2027

Philippe Archambault



Zou Zou Kuzyk



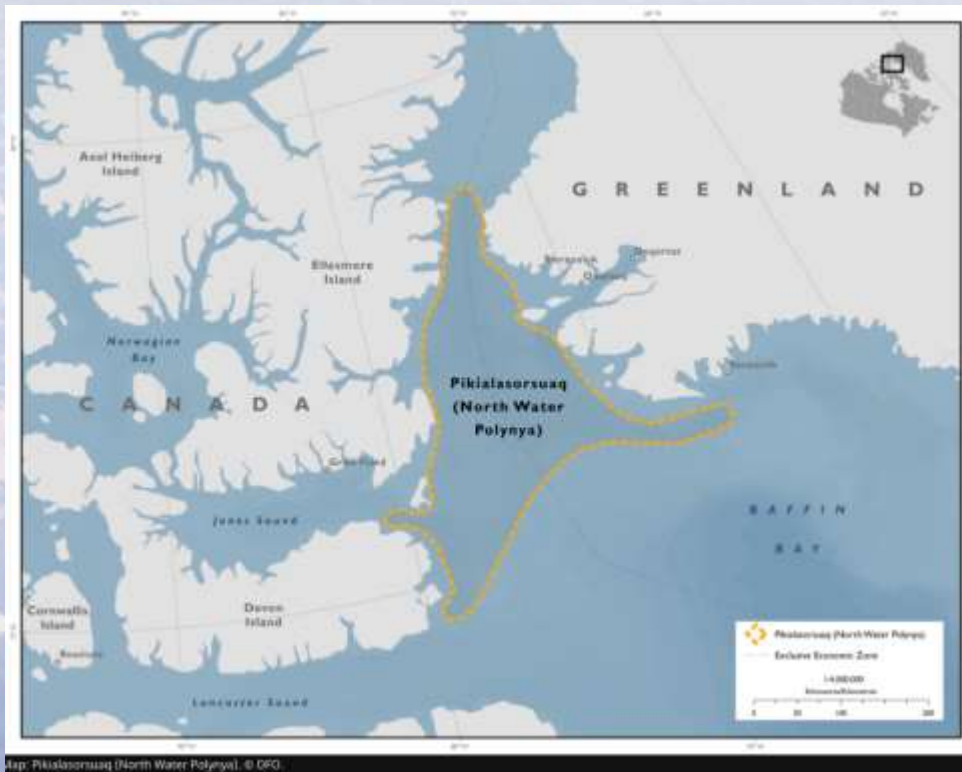
Steering Committee

- Audrey Limoges (UNB)
- Dave Capelle (DFO)
- Julienne Stroeve (UM/NSIDC/UCL)
- Lauren Candlish & Alexandre Forest as observers!
- Jens Ehn (UM)
- Marianne Marcoux (DFO)
- Maxime Geoffroy (MUN)

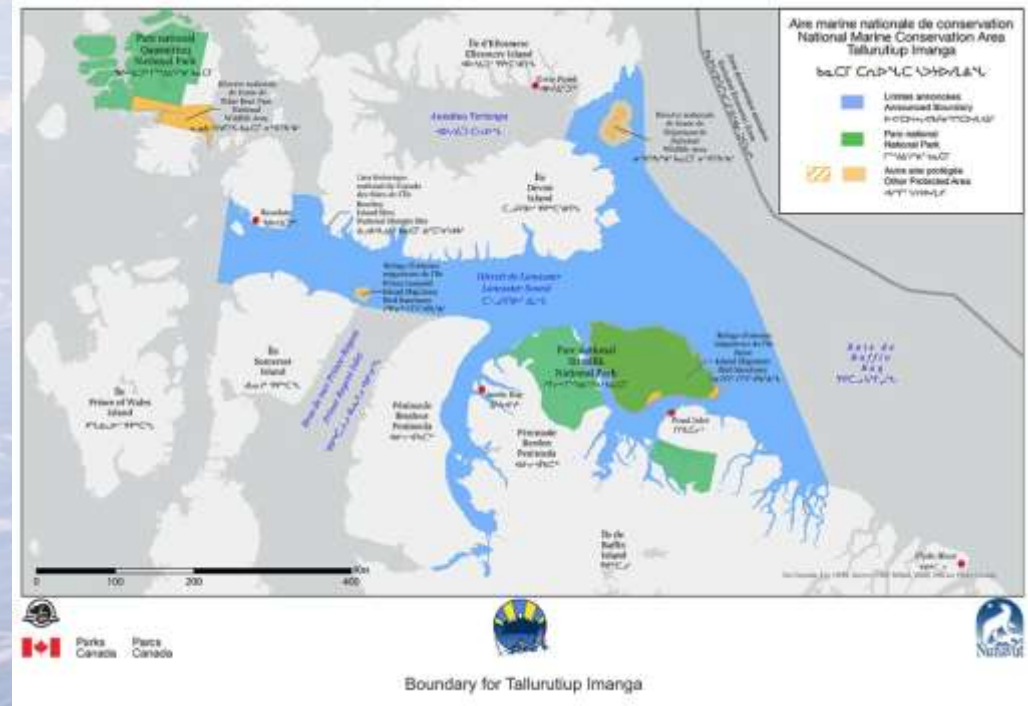


ASP- Virtual January 2022

Pikialasorsuaq Area



Tallurutiup Imanga National Marine Conservation Area





PERGAMON

Deep-Sea Research II 49 (2002) 4887–4892

DEEP-SEA RESEARCH
PART II

www.elsevier.com/locate/dsr2



Editorial

The International North Water Polynya Study (NOW): a brief overview

Jody W. Deming, Louis Fortier, Mitsuo Fukuchi

NOW was conceived & developed over the course of international workshops (beginning in 1993)

NOW was undertaken as a combined icebreaker/icecamp endeavor over a 3-year period (1997-99). CCGS Louis St. Laurent (1997) & Pierre Radisson (1998 & 99)

Specific exchange with the Inuit of Ajuittuq (Grise Fjord), Canada & Qaanaaq, Greenland

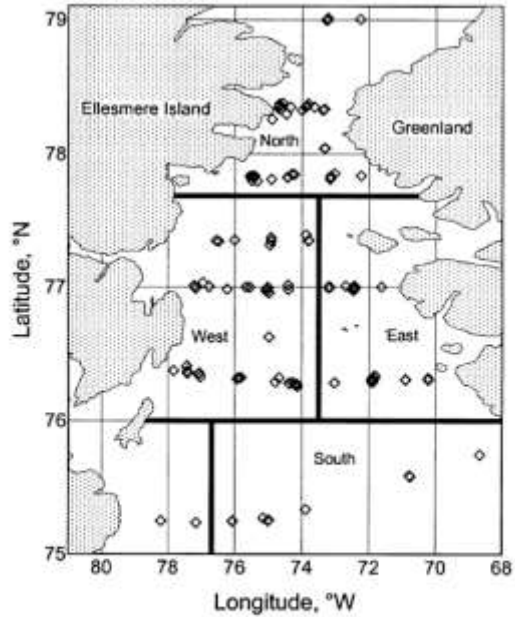


Fig. 1. Stations at which water-column carbon samples were collected and analyzed, 1998–1999. Heavy lines delineate regions discussed in the text.

Miller et al. 2002



2005, 2007 to 2011, 2013 to 2021

15 years



ARTICLE

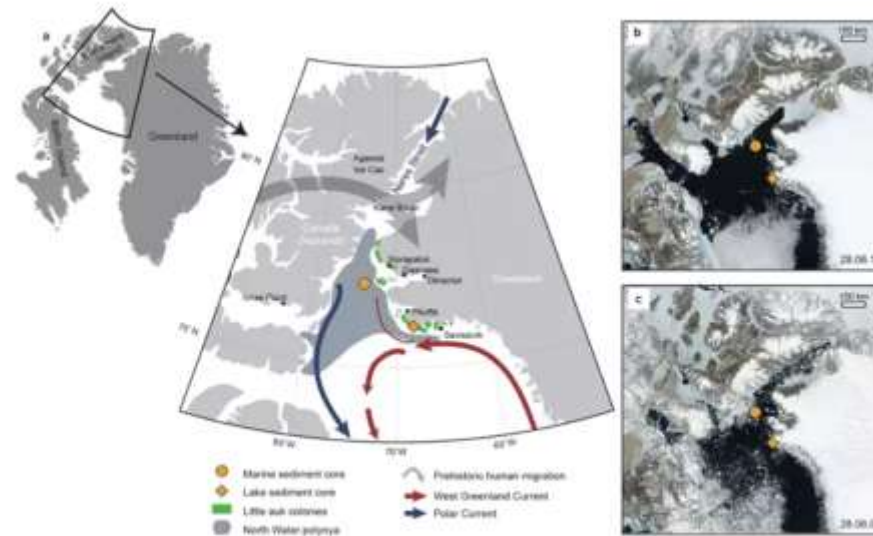
Check for updates

<https://doi.org/10.1038/s41467-021-24742-0>

OPEN

Vulnerability of the North Water ecosystem to climate change

Sofia Ribeiro ^{1&✉}, Audrey Limoges ^{1,2}, Guillaume Massé^{3,4}, Kasper L. Johansen ⁵, William Colgan ¹, Kaarina Weckström ^{1,6}, Rebecca Jackson ¹, Eleanor Georgiadis^{3,7}, Naja Mikkelsen¹, Antoon Kuijpers ¹, Jesper Olsen ⁸, Steffen M. Olsen ⁹, Martin Nissen¹⁰, Thorbjørn J. Andersen ¹¹, Astrid Strunk ¹², Sebastian Wetterich ¹³, Jari Syväranta¹⁴, Andrew C. G. Henderson ¹⁵, Helen Mackay^{15,16}, Sami Taipale ¹⁷, Erik Jeppesen^{18,19,20}, Nicolaj K. Larsen^{12,21}, Xavier Crosta ⁷, Jacques Giraudeau⁷, Simone Wengrat²², Mark Nuttall^{23,24}, Bjarne Grønnow²⁵, Anders Mosbech ⁵ & Thomas A. Davidson ^{18&✉}

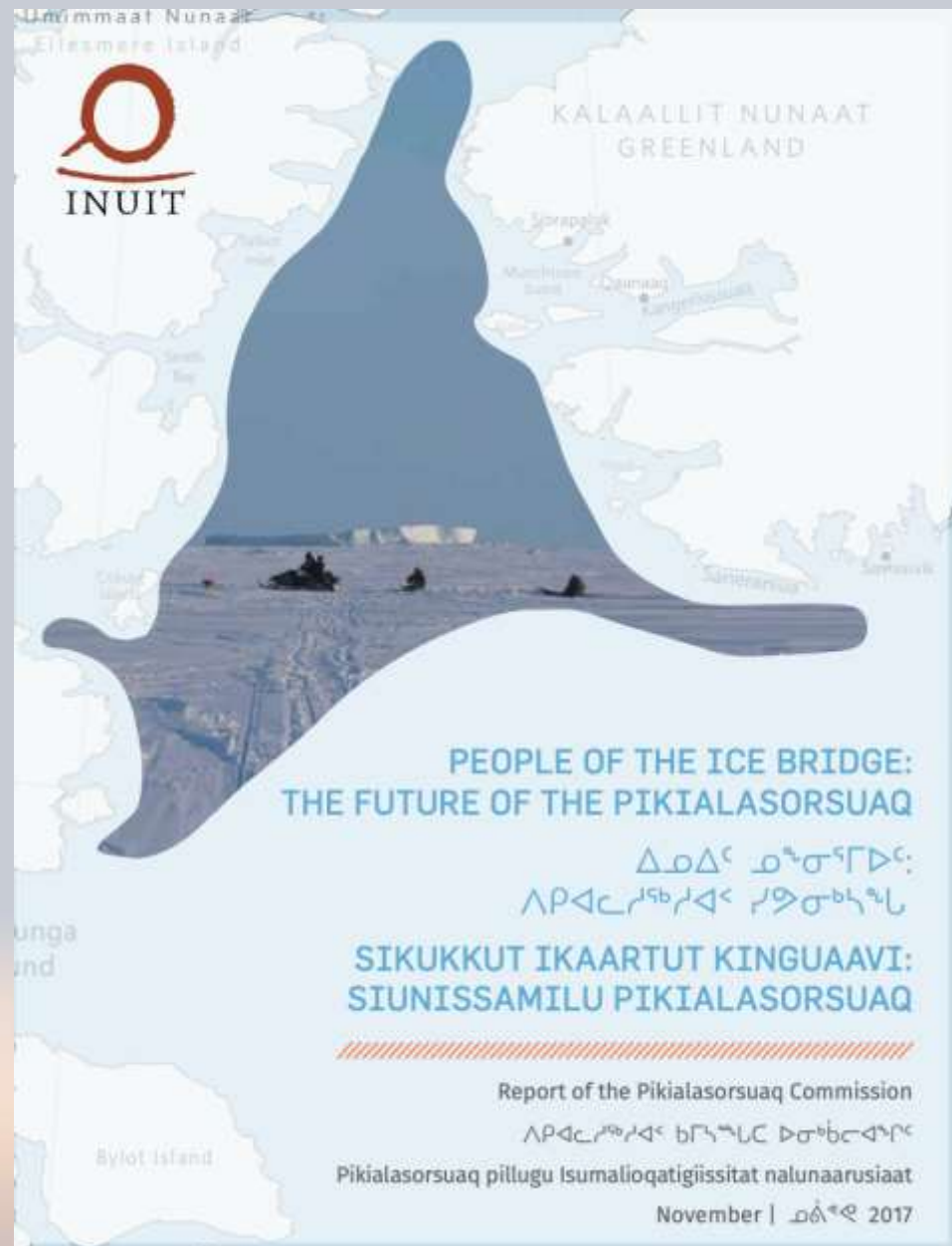


The North Water polynya is a biological hotspot and has been the prehistoric gateway to Greenland. Credit: Ribeiro et al. 2021





Line Anker Kyhn and Anders Mosbech (Eds.)



Okalik Egeesiak, Eva Ariak, Kuupik V. Kleist

A poor understanding of the year-round variability of major ecosystem components and their response to physical forcing factors and environmental gradients, and properties (e.g., nutrients) associated with variation in source seawaters.

The overarching objective of the project, is to acquire a year (2026-2027) of observations in and around the NOW region (coastal to offshore) and create synergy among research teams.

- What will be the oceanography and sea ice conditions in the near future?
- Can we predict the formation of the ice-bridge ?
- How changes in sea ice conditions and oceanography affect the primary productivity, the benthic pelagic coupling and food web ?
- How the harvested resources will be modified for Inuit communities ?
- What are the mechanisms of ice bridge formation and role with respect to polynya variation ?

