Nunavut Research Institute / ᓄᓇᕗᒻᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᒃᑯᑦ
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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 042 24N-A

ISSUED TO: Giannina Hattich
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20500 Finland

TEAM MEMBERS: A.Skrifvars

TITLE: ISOLATED: Impact of Stability On pLasticity AND AdapTation potEntial of Diatoms

OBJECTIVES OF RESEARCH:
The project, titled "ISOLATED: Impact of Stability On pLasticity and AdapTation potEntial of Diatoms," is led by Dr. Giannina Hattich, a Postdoctoral Researcher at the University of Turku. This research explores how Arctic phytoplankton species, particularly diatoms, respond to changing environmental conditions. By examining the plasticity and adaptation potential of diatoms, the study aims to answer critical questions regarding their ability to thrive in the face of climate change. The study is crucial because diatoms are fundamental components of Arctic food webs, sustaining diverse marine life and influencing nutrient cycling. Furthermore, the Arctic is experiencing climate change at an alarming rate, with profound effects on its delicate ecosystems, necessitating a deeper understanding of how organisms like diatoms adapt to these rapid environmental shifts. Fieldwork will be conducted along the coasts of Greenland and Canada during the summer months of 2024, involving the collection of water samples and isolating diatom species. The research will have significant implications for understanding Arctic ecosystem dynamics and the broader impacts of climate change on marine life.

TERMS & CONDITIONS:
The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 24YN031) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:
DATES: August 21,2024 to September 13,2024
LOCATION: Davis Strait, Kane Basin, Baffin Island, Bellot Strait, Pond Inlet, Buchan Gulf, Queen Elizabeth Islands

Scientific Research License 02 042 24N-A expires on December 31,2024
Issued at Iqaluit, NU on August 29,2024

Per James Shirley
Science Advisor

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