

APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH

1. General Information

1.1 Cruise name and/or number:	F2026-021-RS152616 REKA
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1.2 Sponsoring institution(s):		
Name	Address	Name Of Director
Lindblad Expeditions	Science@expeditions.com	Ashley Knight
Moss Landing Marine Labs, San Jose State University	(831) 771-4410 petra.dekens@sjsu.edu	Petra Dekens

1.3 Scientist in charge of the project:	
Name:	Michael Wood
Country:	United States
Affiliation:	San José State University
Address:	Moss Landing Marine Labs Moss Landing United States
Telephone:	3105607446
Email:	mike.wood@sjsu.edu

1.4 Entity(ies) /Participant(s) from coastal State involved in the planning of the project:	
Name:	See Section 6.2
Country:	
Affiliation:	
Address:	
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

1.5 Submitting officer:	
Name:	Ashley Knight
Affiliation:	Lindblad Expeditions
Address:	United States
Telephone:	858-349-8231
Fax:	
Email:	ashleyk@expeditions.com

2. Description of Project

2.1 Nature and objectives of the project:
In this project, I will serve as a visiting scientist on the Platform of Opportunity M/V National Geographic Resolution. This cruise is a tourist operation on a cruise in Iceland and Greenland waters. My scientific sampling goals are as follows: 1) deploy an Argo float at the location 69.093 N 51.99 W, 2) conduct conductivity-temperature-depth hand-cast measurements approximately once per day, 3) collect water samples with a phytoplankton net and sample bottles to be examined on board as well as shipped back to my lab in California, USA, and 4) capture drone imagery of near-glacier waters to assess phytoplankton types and turbidity.

2.2 Relevant previous or future research projects:
This is the second application I have submitted as lead scientist through the RATS portal. The previous application was for cruise ED142518 EPGR conducted during August and September 2025.

2.3 Previous publications relating to the project:
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I have been working on science related to Greenland for the past 10 years and I have over 30 scientific publications pertaining to glaciers, oceanography, and primary productivity in the region. My full list of publication can be view on my ORCID profile at <https://orcid.org/0000-0003-3074-7845>

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude, including coordinates of cruise track/ way points):

In Iceland, sampling will take place near Flatey Island and Westfjord in the approximate box bounded by latitudes 65.2-66.5 N and longitudes 25W-22W. In Greenland, sampling will take place on the southeast coasts of Greenland, south of 71.8 N. See proposed cruise track in the attachments of this application for specific locations.

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical areas of the intended work and, as far as practicable, the location and depth of sampling stations, the tracks of survey lines, and the locations of installations and equipment.

Chart provided - see Section 10.1.

4. Methods and Means to be Used

4.1 Particulars of Vessel:

Name:	National Geographic Resolution
Type/Class:	Ship : R/V
Nationality (Flag state):	Bahamas, The
Identification Number/Lloyds #/MMSI #:	311 000 893
Owner:	Lindblad Maritime Enterprises
Operator:	Lindblad Expeditions
Overall length:	118m
Maximum draught:	5.7m
Displacement/Gross tonnage:	12,786.0
Propulsion:	2x ABB Azipods
Cruising:	10
Maximum speed:	
Call sign:	
INMARSAT number and method and capability of communication (including emergency frequencies):	
Name of master:	Heidi Norling & Martin Grasser
Number of crew:	90
Number of scientists on board:	1

4.2 Other craft in the project, including its use:

N/A

4.3 Particulars of methods and scientific instruments:

Types of samples and measurements	Methods to be used	Instruments to be used
Water temperature and salinity	Temperature and conductivity sensors on the instrument	Autonomous Argo float
Water temperature, salinity, oxygen concentration, fluorescence	Temperature sensor, conductivity sensor, oxygen sensor, fluorometer	Hand-deployed RBR concerto
Plankton Water Sample	Niskin bottles on line	Samples will be imaged with a flow cytometer and filtered for shipment and analysis in the US
Drone Images of the Ocean Surface	Drone flights in near-glacier environments	Multispectral Camera on Consumer Drone

4.4 Indicate nature and quantity of substances to be released into the marine environment:

No

4.5 Indicate whether drilling will be carried out. If yes, please specify:

No

4.6 Indicate whether explosives will be used. If yes, please specify type and trade name, chemical content, depth of trade class and stowage, size, depth of detonation, frequency of detonation, and position in latitude and longitude:
No
4.7 Indicate whether protected species be studied. If yes, please specify:
No
4.8 Indicate whether scientific acoustic equipment will be used.:
No
4.9 Indicate whether fishing/trawling will be used.:
No

5. Installations and Equipment

5.1 Details of installations and equipment (including dates of laying, servicing, method and anticipated timeframe for recovery, locations and depth, and measurements):
An Argo float will be deployed at 69.093 N 51.99 W and will sample the water column between the surface and the depth at that location (approximately 500m)

6. Dates

6.1 Estimated overall project start and end dates:	
Project Start Date: 7/14/2026	
Project End Date: 7/30/2026	
6.2 Coastal State-specific details:	
Coastal Area	Iceland
Estimated Entry Date:	7/14/2026
Estimated Departure Date:	7/18/2026
Estimated Research Start Date:	7/17/2026
Estimated Research End Date:	7/18/2026
Explanation of multiple entries:	N/A
Research will be performed:	Within 12 M
Extent to which Iceland will be enabled to participate or to be represented in the research project:	Data from this sampling will be made freely and immediately available to researchers in Iceland, such as those at the University of Iceland, to support collaboration and communication
Name, affiliation and contact information for all participants from Iceland:	N/A
Coastal Area	Greenland
Estimated Entry Date:	7/18/2026
Estimated Departure Date:	7/30/2026
Estimated Research Start Date:	7/18/2026
Estimated Research End Date:	7/30/2026
Explanation of multiple entries:	N/A
Research will be performed:	Within 12 M, Between 12-200 M
Extent to which Greenland will be enabled to participate or to be represented in the research project:	All data from the sampling in this research will be delivered to the Greenland Institute of Natural Resources to support collaboration and communication
Name, affiliation and contact information for all participants from Greenland:	N/A

7. Port Calls

7.1 List of Port Calls

Port	Arrival Date	End Date	Special Logistical Requirements	Shipping Agent
Reykjavik	7/14/2026	7/14/2026	There are no special logistical requirements for the loading of science equipment or personnel in Reykjavik.	National Geographic Lindblad Expeditions
Nuuk (Godthaab)	7/29/2026	7/29/2026	There are no special logistical requirements for the unloading of science equipment or personnel in Nuuk.	National Geographic Lindblad Expeditions

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research project:
See Section 6.2
8.2 Proposed dates and ports for embarkation/disembarkation:
See Section 6.2

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include the expected dates of submission of the data and research results:
No more than 3 months from the end date of the research as provided in Section 6.1.
9.2 Anticipated dates of submission to the coastal State of the final report:
No more than 2 years from the end date of the research as provided in Section 6.1.
9.3 Proposed means for access by coastal State to data (including format) and samples:
Data will be provided through official channels at no cost to the coastal State(s). Samples will be provided upon request.
9.4 Proposed means to provide coastal State with assessment of data, samples and research results:
Assessment of data, samples and research results will be provided at no cost to the coastal State(s).
9.5 Proposed means to provide assistance in assessment or interpretation of data, samples and research results:
Assistance in further assessment or interpretation will be provided upon request.
9.6 Proposed means of making results internationally available:
The data from my Argo float will be provided automatically into the public database of Argo data. For the CTD cast, water sampling, and drone imagery, I plan to send provide this data to the Greenland Institute of Natural Resources (GINR) as well as public databases such as the World Ocean Database, as applicable. The Argo data from my previous cruise is already available via the Argo database and the other CTD and phytoplankton data was delivered to GINR in September of 2025.

10. List of Supporting Documentation

10.1 List of attachments, such as additional forms required by the coastal State, etc.:			
Attachment Type	Description	Attachment	Submission Date
Proposed Cruise Track	Iceland and Greenland	RS152616 REKA Cruise Track.png	2/11/2026 6:09 PM
Supplemental Material	Notification of Proposed Research - Greenland	Notification-of-Proposed-Research-Cruise-mandatory-to-submit.pdf	2/13/2026 8:03 PM
Consent Letter	Host invitation letter	Letter of Support - Wood.pdf	2/13/2026 8:04 PM

Executed: 2/19/2026 8:20:06 PM (Coordinated Universal Time)