

N O T I F I C A T I O N
OF PROPOSED RESEARCH CRUISE

GENERAL

Part A

1. Name of research ship: Tarajoq Cruise no. 6/23
2. Dates of cruise: From: Aug 21 To: Sept 16, 2023
3. Operating Authority: *Greenland Institute of Natural Resources
P.O. Box 570
DK-3900 Nuuk, Greenland*
4. Owner (if different from para 3):
5. Particulars of ship:
 - Name: Tarajoq
 - IMO number: 9881225
 - MMSI: 331983000
 - Nationality: Greenland
 - Year built: 2021
 - Classification: DNV (register & ice class),
1A* (hull), 1B (machinery),
Polar Code Category C
 - Overall length: 61,40 M X 16,5 M
 - Maximum draught: 8,02 M
 - Net tonnage: 2896 tonnes
 - Propulsion: 2900 KW
 - Fuel type & capacity: MGO 475 M³
 - Call sign: OYLD
6. Crew:

Name of master:	Jakup Gardshorn Mikkelsen
No. of crew:	12 crew scientist 8
7. Scientific Personnel: Name & address of
Scientist in charge:
Teunis Jansen
*Greenland Institute of Natural Resources
P.O. Box 570
DK-3900 Nuuk, Greenland*

No. of scientists:	8
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8. Geographical area in which ship will operate (with reference in latitude and longitude): *ICES VIX and V - se map figure 1;*
9. Brief description of purpose of cruise: *Pelagic ecosystem survey, with particular focus on capelin.*
10. Brief description of intended ports of call: *Reykjavik in Iceland.*
11. Any special logistic requirements at ports of call: *No*

N O T I F I C A T I O N
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DETAIL

Part B

1. Name of research ship: Tarajog Cruise no. 6/23
2. Dates of cruise: From: Aug 21 To: Sept 16, 2023
3. Purpose of research and general operational methods
The survey is a general pelagic ecosystem survey in the East Greenlandic Current, as well as a dedicated capelin survey. The Capelin stock will be measured in terms of abundance, biomass and distribution. This will be done using scientific 38 kHz echosounders with relatively low power output (no disturbance of marine mammals). The acoustic registrations will be verified by pelagic trawling using a MultiPelt 416 trawl. The trawl locations are not predetermined, but will be taken when acoustic registrations cannot be identified from the acoustic data alone. Typically, this is 2 hauls per day. Sampling will also include plankton nets and CTD casts to measure salinity and temperature profiles.

Start with steaming from Reykjavik to a sheltered location where acoustic calibration can be performed.

The survey ends in Iceland where the scientists will disembark.

The survey will follow a similar path as the 2019-survey (figure 1).
4. Attach chart showing (on an approximate scale) the geographical Area of work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment

See Figure 1.
5. Types of samples required, e.g. Geological/Water/Plankton/Fish/Radioactivity/Isotope and methods by which samples will be obtained (including dredging/coring/drilling

Samples of fish and invertebrate species for length, weight, age and maturity. Oceanographic sampling (e.g. temperature, salinity, oxygen, pH and fluorescence).

Pelagic trawl, Oceanographic sensor (Seabird CTD) mounted on the trawl gear and Seabird CTD with attached oxygen meter, pH meter and fluorometer deployed at stations using a winch.
6. Details of moored equipment: *No moored equipment will be deployed.*
7. Explosives: **None**
8. Detail and reference of
 - (a) Any relevant previous/future cruises
ICES NWWG Report, Section on Capelin in the Iceland-East Greenland-Jan Mayen area
 - b) Any previously published research data relating to the proposed cruise (Attach separate sheet if necessary).
9. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous

contact has been made.

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10. State:

(a) Whether visits to the ship in port by scientists of the Coastal state concerned will be acceptable.

Yes

(b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation/disembarkation.

Observers are welcome. All arrangements should be made with the scientist in charge.

(c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.

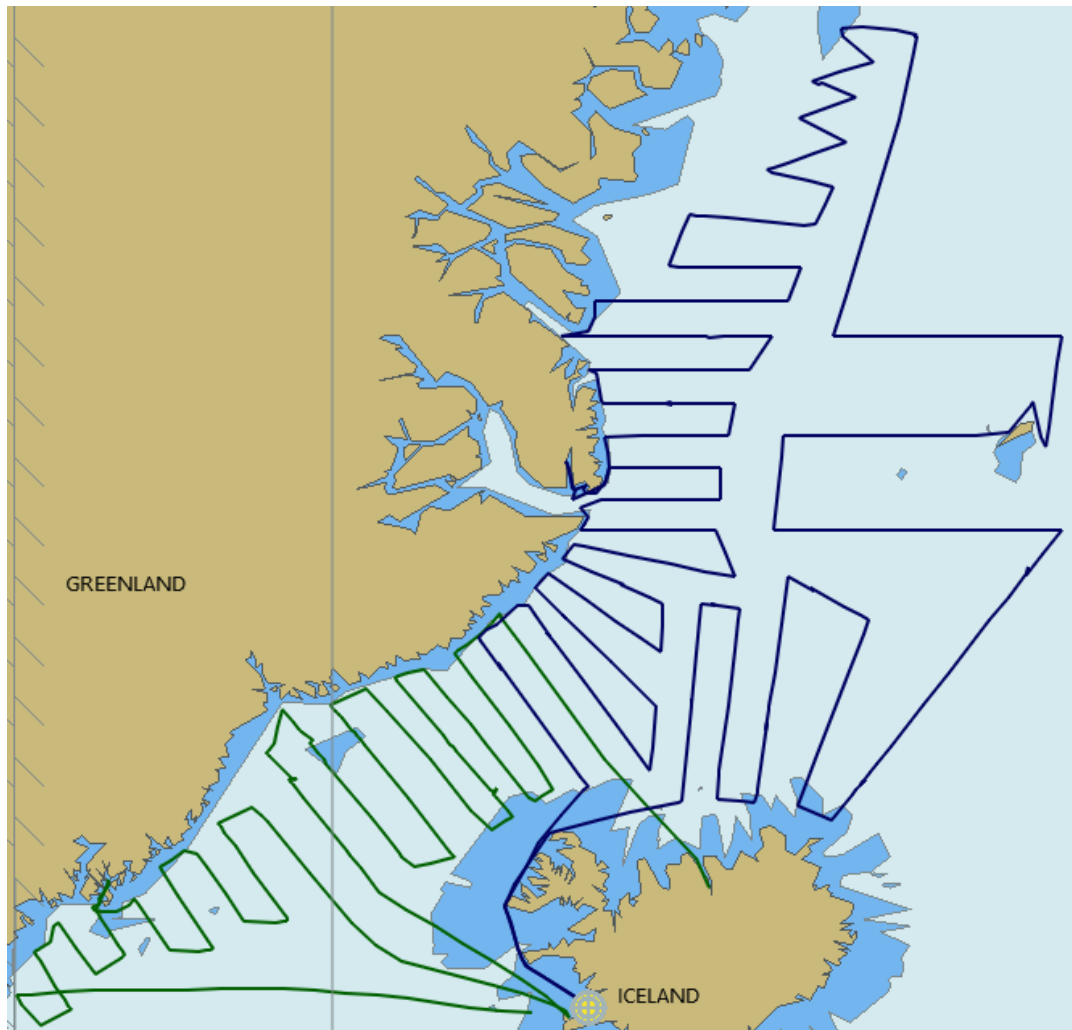
All data and material is collected by Greenlandic Scientists and will be available in Greenland and Iceland. The data will be used for capelin fisheries advice and be presented as a research documents at future ICES WG Wide meetings.

SCIENTIFIC EQUIPMENT

11. Complete the following table

(INDICATE 'YES' OR 'NO')

List of all major Marine Scientific Equipment it is proposed to use and indicate waters in which it will be deployed	Within fishing limits	On con- tinental Shelf	DISTANCE FROM COAST			
			Within 3 NM	Between 3-12 NM	Between 12-50 NM	Between 50-200 NM
Pelagic trawl	Yes	Yes	Yes	Yes	Yes	Yes
Acoustic survey capelin	Yes	Yes	Yes	Yes	Yes	Yes
Seabird CTD sensor	Yes	Yes	Yes	Yes	Yes	Yes



The figure 1 shows the survey that was conducted in 2019 (green line). The present survey will follow a similar approach. GINR will coordinate their efforts with one Icelandic ship and sail the routes described in the main text of this application.