ICES form - Notification of proposed research cruise

1. **NAME OF RESEARCH SHIP:** "Johan Hjort" **CRUISE NO.:** 2022 207

2. **DATES OF CRUISE** From: 24.05.2022 To: 21.06.2022

3. **OPERATING AUTHORITY:**

Institute of Marine Research
P.O. Box 1870 Nordnes
5817 Bergen

TELEPHONE:	+47 5523 8500
TELEFAX:	+47 5523 8531
TELEX:	NA
e-mail:	post@hi.no

4. **OWNER** (if different from no. 3)

5. **PARTICULARS OF SHIP:**

Name:	Johan Hjort
Nationality:	Norwegian
Overall length:	64.5 metres
Maximum draught:	6.4 metres
Net tonnage:	555 tonnes
Propulsion:	Diesel
Call sign:	LDGJ
Registration port and number (if registered fishing vessel):	NA

6. **CREW**

Name of master:	Hans Troland / Rune Kleppe
Number of crew:	15

7. **SCIENTIFIC PERSONNEL**

Name and address of scientist in charge:	Henrik Søiland, Institute of Marine Research P.O. Box 1870 Nordnes, N-5817 Bergen henrik.soiland@hi.no
Tel. no.:	+47 926 95 447
No. of scientists:	6

8. **GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE**

(with reference to latitude and longitude)
Norwegian and Greenland Sea, 60°N-75°N 18°W-20°E (see attached map under Part B point 4).

9. **BRIEF DESCRIPTION OF PURPOSE OF CRUISE**

Monitoring the marine environment and plankton condition on the fixed hydrographic sections, Svinøy-NW, Gimsøy-NW, Bear Island W (along 74.5 N), and in the Barents Sea opening. During the cruise, hydrographic data (temperature, salinity, and ocean current using Acoustic Doppler Current Profiler) and water samples (nutrients, oxygen, chlorophyll, pH, etc.) are collected. In addition to the monitoring activity several moorings for current measurements will be changed (recovered and redeployed), and several Argo floats (free drifting floats at 1000 m depth) and gliders will be recovered and deployed.

10. **DATES AND NAMES OF INTENDED PORTS OF CALL**

Non intended.

11. **ANY SPECIAL REQUIREMENTS AT PORTS OF CALL**

None

1. Part B: Details

1. **NAME OF RESEARCH SHIP:** *Johan Hjort* **CRUISE NO.:** *2022207*

2. **DATES OF CRUISE** From: *24.05.2022* To: *21.06.2022*

3.

a) **PURPOSE OF RESEARCH**:

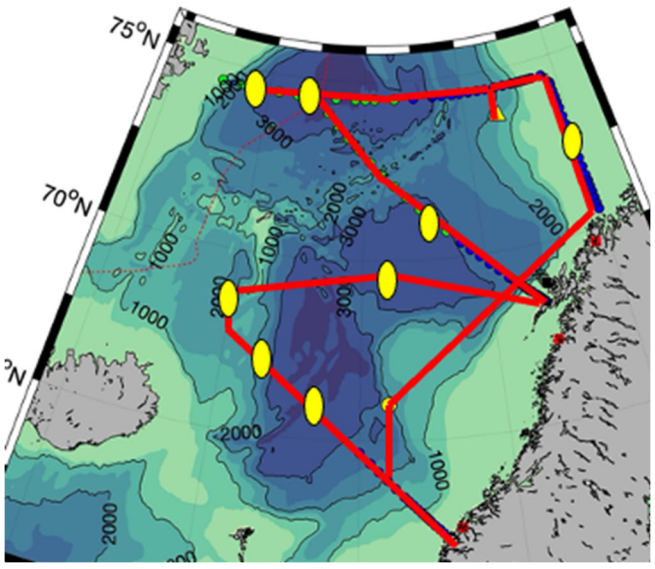
Monitoring the marine environment and plankton condition on the fixed hydrographic sections, Svinøy-NW, Gimsøy-NW, Bear Island W (along 74.5 N), and in the Barents Sea opening. During the cruise, hydrographic data (temperature, salinity, and ocean current using Acoustic Doppler Current Profiler) and water samples (nutrients, oxygen, chlorophyll, pH, etc.) are collected. In addition to the monitoring activity several moorings for current measurements will be changed (recovered and redeployed), and several Argo floats (free drifting floats at 1000 m depth) and gliders will be recovered and deployed.

b) **GENERAL OPERATIONAL METHODS** (including full description of any fish gear, trawl type, mesh size, etc.)

Water bottles, CTD-probe (measures conductivity, temperature and density at depth), Plankton net (vertical haul), towed Multinet for plankton measurements, Winch for deployment of Argo floats and gliders, and recover/deployment of moorings.

4. **ATTACH CHART** showing (on an appropriate scale) the geographical area of intended work, positions of survey lines, positions of moored/seabed equipment, areas to be fished

The planned survey lines are given as red lines in the map. Deployment of Argo floats are given as yellow ellipses (positions may be modified during the cruise).



5.

a) **TYPES OF SAMPLES REQUIRED** (e.g., geological/water/plankton/fish/radionuclide)

Water samples.

b) **METHODS OF OBTAINING SAMPLES** (e.g., dredging/coring/drilling/fishing, etc. When using stocks being worked, quantity of each species required, and quantity of fish to be retained on board)

CTD-probe with water bottles, vertical haul with plankton net, and towed multinet for plankton measurements.

6. **DETAILS OF MOORED EQUIPMENT**

Laying	Recovery	Description	Depth	Latitude	Longitude
May 2022	May 2023	Several current moorings in the Barents Sea Opening	0-450 m	70-74.5 N	20 E
May 2022	May 2023	Buoy at OWS M	0-2000 m	66 N	2 E

7. **ANY HAZARDOUS MATERIALS** (chemicals/explosives/gases/radioactives, etc.)
(Use separate sheet if necessary)
None.

a) **Type and trade name** *NIL*

b) **Chemical content** (and formula) *NIL*

c) **IMO IMDG code** (reference and UN no.) *NIL*

d) **Quantity and method of storage on board** *NIL*

e) **If explosives** give dates of detonation
(none)

- Method of detonation

- Position of detonation
- Frequency of detonation
- Depth of detonation
- Size of explosive charge in kg

8. **DETAIL AND REFERENCE OF**

a) Any relevant previous/future cruises
Annual survey since the 1950s.

b) Any previously published research data relating to the proposed cruise
Data from the cruise series are reported to ICES and published in reports of ICES Working Group on Oceanic Hydrography.

9. **NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE**

Denmark/Greenland

John Mortensen (Senior Scientist)
Greenland Climate Research Centre
Greenland Institute of Natural Resources
Kivioq 2
PO. Box 570
3900 Nuuk
Greenland

Email: jomo@natur.gl
Tel: +299 361 239

Iceland

Magnús Danielsen (Senior Scientist)
Marine and Freshwater Research Institute
Fornubúðum 5
220 Hafnarfjörður
Iceland

Email: magnus.danielsen@hafogvatn.is
Tel: +354 5752072

10. **STATE**

a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable (Yes/no)
Yes

b) Participation of an observer from the coastal state for any part of the cruise together with the dates for embarkation and disembarkation
Yes

c) When research data from the intended cruise are likely to be made available to the coastal state and by what means
Data from the cruise will be delivered to ICES within 6-12 months after the end of the cruise.

2. Part C. Scientific Equipment

Complete the following table using a separate page for each coastal state

Coastal state: Greenland (Denmark)

Port of call:

Dates:

				DISTANCE FROM COAST		
List scientific work by function				Within	Between	Between
				4 nm	4-12 nm	12-200 nm
Deployment/recover of Mooring	Yes			No	No	No
Deployment/recover of Argo floats	Yes			No	No	Yes
Deployment/recover of gliders	Yes			No	No	No
Water sampling	Yes			No	No	Yes
CTD casts	Yes			No	No	Yes
Plankton net	Yes			No	No	Yes

Coastal state: Iceland

Port of call:

Dates:

				DISTANCE FROM COAST		
List scientific work by function				Within	Between	Between
				4 nm	4-12 nm	12-200 nm
Deployment/recover of Mooring	Yes			No	No	No
Deployment/recover of Argo floats	Yes			No	No	Yes
Deployment/recover of gliders	Yes			No	No	No
Water sampling	Yes			No	No	Yes
CTD casts	Yes			No	No	Yes
Plankton net	Yes			No	No	Yes

Kjell Arne Mork

. . . . . Dated 8 December 2021

(On behalf of the Principal Scientist)

NB. If any details are materially changed regarding dates/area of operation after this form has been submitted, the coastal state authorities must be notified immediately.