Application for Consent to conduct Marine Scientific Research

Date: _2.06.2019____

1. General Information

1.1 Cruise name and/or number:
2019207

1.2 Sponsoring Institution(s):	
Name:	Institute of Marine Research
Address:	P.O.Box 1870 Nordnes
	N-5024 Bergen Norway
Name of Director:	Sissel Rogne

1.3 Scientist in charge of the Project:		
Name:	Cecilie Kvamme	
Country:	Norway	
Affiliation:	Institute of Marine Research	
Address:	P.O.Box 1870 Nordnes	
	N-5024 Bergen Norway	
Telephone:	+47 454 49 350	
Fax:	+47 55238500	
Email:	cecilie.kvamme@hi.no	
Website (for CV and photo):	NA	

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

2. Description of Project

2.1 Nature and objectives of the project:

Three main objectives:

Internationally coordinated acoustic survey for herring and sprat in the North Sea and Skagerrak-Kattegat, coordinated by ICES (WGIPS) and including UK-Scotland, Netherlands, Ireland, Germany, Norway, and Denmark; the purpose of which is to provide a tuning series for assessments of herring and sprat.
Acoustic survey of saithe, which is to provide a tuning index to be used in the assessment of North Sea saithe (used within ICES-WGNSSK).

3) Sampling for pollutants (POPs, PAH, radioactivity) from seawater, sediment, and organisms; carry out measurement of biomarkers; collect samples for safe seafood.

Survey dates: 29.06 – 03.08.2019

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

International survey for herring, ICES-WGIPS

dCod project: collection of food samples, collaboration between HI, UiO, and UiB for radioactivity Collaboration between HI and Norwegian radiation protection authority (Statens strålevern)

2.3 Relevant previous or future research projects: The herring acoustics survey have been undertaken for several decades and the saithe survey since 1995.

2.4 Previous publications relating to the project:

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet. Survey area covers: 56°N - 62° N, 08°E - 02° W

We confirm that we will not tow over or near the TAT-14 sea cable, in the Pobie Bank reef MPA, or the Fetlar to Haroldswick NCMPA. We will not tow within 12 n m of the shore.

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.

Attached is an excel sheet showing the approximate locations of the survey transects. Towing will take place along these transects, but we cannot give exact positions. Where we decide to tow will depend on whether fish are seen, from which we will need to sample for species identification or biological samples.

Norway will not sample within 12 n. mi. of the UK.

We confirm that we will not tow over or near the TAT-14 sea cable, in the Pobie Bank reef MPA, or the Fetlar to Haroldswick NCMPA.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Johan Hjort
Type/Class:	Research vessel
Nationality (Flag State):	Norwegian
Identification Number (IMO/Lloyds No.):	8915768
Owner:	Institute of Marine Research
Operator:	Institute of Marine Research
Overall length (meters):	64.5
Maximum draught:	6.5
Displacement/Gross Tonnage:	548/1851 tons
Propulsion:	DC-Electric
Cruising & maximum speed:	10-12 knots, 12.7 knots
Call sign:	LDGJ
INMARSAT number and method and capability	Telephone: +47 55906400
of communication (including emergency	Telefax: +47 55906401
frequencies):	E-mail: johan.hjort@hi.no
Name of Master:	Hans Sangolt Troland / Hallgeir Magne Johansen
Number of Crew:	15
Number of Scientists on board:	18

4.2 Particulars of Aircraft:	
Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication	
(including emergency frequencies):	

Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehic	le (AUV):
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication	
(including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:

4.5 Particulars of methods specify type and dimension		struments to be used (for fishing gear
Types of samples and	Methods to be used:	Instruments to be used:
Measurements:		
Fish	Bottom and midwater trawls	Harstad/Åkra/Swedish pelagic/Campelen
		trawls
Water	Profiles	CTD
Water	Bottle collection	CTD
Sediment	Grabs, cores	Box corer, Van Veen Grab

4.6 Indicate nature and quantity of substances to be released into the marine environment: NONE

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

4.8 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: NA

5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements): NA

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the
research vessel and/or other platforms:
Will require access to the UK zone for the entire survey period: 29.06 – 03.08.2019
Will need entrance to the UK zone at all times during the survey due to planning of activities.
6.2 Indicate if multiple entries are expected:
Yes. Multiple entries are expected. Port call at Lerwick within period 31 July – 3 Aug

7. Port Calls

7.1 Dates and Names of intended ports of call:	1
Within period 31 July – 3 Aug; Lerwick, Shetland	

7.2 Any special logistical requirements at ports of call:

NONE

7.3 Name/Address/Telephone of shipping agent (if available): NA

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: NONE

8.2 Proposed dates and ports for embarkation/disembarkation: NONE

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: Report within 1 year, if required

9.2 Anticipated dates of submission to the coastal State of the final report: Report within 1 year, available at <u>www.ices.dk</u> (IBTSWG final report)

9.3 Proposed means for access by coastal State to data (including format) and samples: ICES database

9.4 Proposed means to provide coastal State with assessment of data, samples and research results: Will direct to data held at ICES (freely accessible to all)

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples and research results:

Will direct to data held at ICES (freely accessible to all)

9.6 Proposed means of making results internationally available: All herring survey data stored and reported to ICES within 2 months of end of survey.

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

Access to DK waters.

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.: Figure 1 for map of survey transects within survey area and pollution sampling (sediments, water) Attached excel file contains survey transect start and end points and pollution sampling stations

Norway is aware that they cannot trawl over or near the TAT-14 sea cable, in the Pobie Bank reef MPA, or in the Fetlar to Haroldswick NCMPA. Norway will avoid these areas.

Signature:

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Contact information of the focal point:

Name: Cecilie Kvamme Country: Norway Affiliation: Institute of Marine Research Address: P.O.Box 1870 Nordnes, N-5024 Bergen Norway Telephone: +47 454 49 350, Fax: +47 55238500 Email: cecilie.kvamme@hi.no

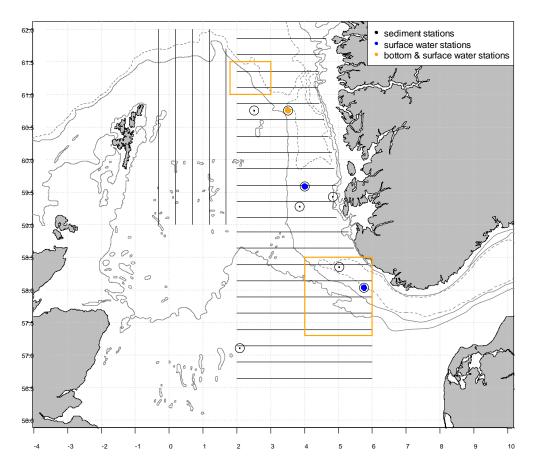


Figure 1. "Johan Hjort" will run along these transects and take bottom trawls to verify species composition/collect biological samples when needed. Black circles indicate sediment sampling stations, blue and orange circles indicate water sampling stations, orange boxes indicate areas where organisms will be sampled for pollutants.