

Application for Consent to conduct  
Marine Scientific Research

Date: 14.04.2016

1. General Information

1.1 Cruise name and/or number: 2016207

1.2 Sponsoring Institution(s):	
Name:	Institute of Marine Research
Address:	P.O.Box 1870 Nordnes N-5817 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-5817 Bergen Norway
Telephone:	+47 55238500
Fax:	+47 55238531
Email:	<a href="mailto:cecilie.kvamme@imr.no">cecilie.kvamme@imr.no</a>
Website (for CV and photo):	NA

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Susan Lusseau
Affiliation:	FRS Marine Laboratory
Address:	PO Box 101, 375 Victoria Road, Aberdeen, AB11 9DB, UK
Telephone:	
Fax:	
Email:	<a href="mailto:S.Lusseau@MARLAB.AC.UK">S.Lusseau@MARLAB.AC.UK</a>
Website (for CV and photo):	NA

2. Description of Project

2.1 Nature and objectives of the project:
<p>1) Acoustic assessment of the herring and sprat stocks (HERAS) in the North Sea. The cruise is part of the international herring acoustic survey (HERAS) coordinated through the ICES Working Group of International Pelagic Surveys with participants from Denmark, Scotland, Germany, Ireland, the Netherlands and Norway.</p> <p>2) Acoustic assessment of the saithe stock (NORACU) in the North Sea.</p> <p>3) Observations on hydrography (CTD).</p> <p>4) Information on other species is collected upon encounter.</p>

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 herring acoustic survey (HERAS), organized by the WGIPS (ICES)

2.3 Relevant previous or future research projects:
The cruise has been undertaken in summer all years in the period 1986-2015 with Norwegian research vessels. A similar cruise for spring 2017 is planned.

2.4 Previous publications relating to the project:
Report of the Working Group of International Pelagic Surveys (WGIPS) ICES CM 2016/SSGIEOM:05. Ref. SCICOM, WGISUR, ACOM, WGWIDE, and HAWG. ICES, Copenhagen. 439 p.

### 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.
Area of operation is the northeastern part of the North Sea (survey area 9-10 in Figure 1), including work inside the UK EEZ, the Danish EEZ and the Norwegian EEZ.
Survey area covers: 56.5°N-62°N, 1.5°E-6.5°E

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.
See Fig. 1-2 for map of HERAS survey area and last year's survey tracks. Detailed planning with each participating vessel's survey track to be done at a later stage in cooperation with the international coordinator (Susan Lusseau).

### 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 m
Maximum draught:	6.5 m
Displacement/Gross Tonnage:	1851 GT
Propulsion:	Diesel
Cruising & maximum speed:	10-12 knots, 15 knots
Call sign:	LDGJ
INMARSAT number and method and capability of communication (including emergency frequencies):	Telephone: +47 55 90 64 00 Telefax: +47 55 90 64 01 E-mail: johan.hjort@imr.no
Name of Master:	Tommy Steffensen / John Gerhard Aasen
Number of Crew:	15
Number of Scientists on board:	9

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 Vehicle (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 and full description of scientific instruments to be used (for fishing gear specify type and dimension)			
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Fish	Pelagic trawl	Åkra trawl (circumference: 538 m), Harstad trawl (320 m)	No
Fish	Bottom trawl	Campelen trawl (72 m)	No
Salinity, temperature	Measurements	CTD probe	No

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:

Sometime within the survey period 27.06 – 14.07. Timing and location of where the vessel will be is weather dependent and therefore difficult to predict. The survey will start in the south-eastern part of the Norwegian survey area (area 9, Fig. 1), and end in the northern part (area 10).
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6.2 Indicate if multiple entries are expected:
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Probable.
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## 7. Port Calls

7.1 Dates and Names of intended ports of call:
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NONE
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7.2 Any special logistical requirements at ports of call:
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NONE
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7.3 Name/Address/Telephone of shipping agent (if available):
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NA
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## 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
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Project:
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NA
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8.2 Proposed dates and ports for embarkation/disembarkation:
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NA
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## 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:
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International report within 4-5 months
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9.2 Anticipated dates of submission to the coastal State of the final report:
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International report produced by a post-cruise meeting in November 2016.
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9.3 Proposed means for access by coastal State to data (including format) and samples:
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NA
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9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:
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NA
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9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:
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NA
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9.6 Proposed means of making results internationally available:
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All data will be reported to ICES within 4 months and stored within ICES.
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## 10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):
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NA
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## 11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:
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Figure of survey area and last year's survey tracks.
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Signature:

*Cecilie Kvamme*

Contact information of the focal point:

Name: Cecilie Kvamme

Country: Norway

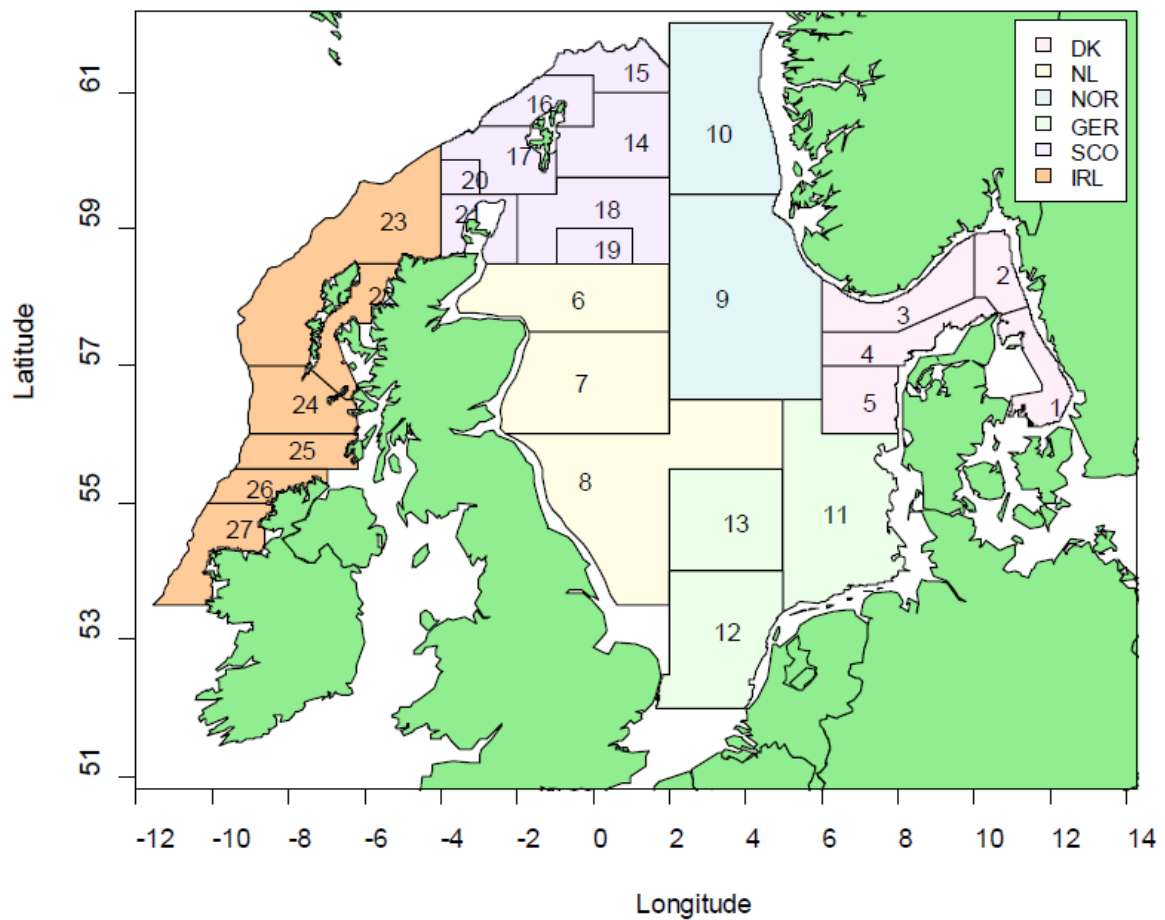
Affiliation: Institute of Marine Research

Address: P.O.Box 1870 Nordnes, N-5817 Bergen, Norway

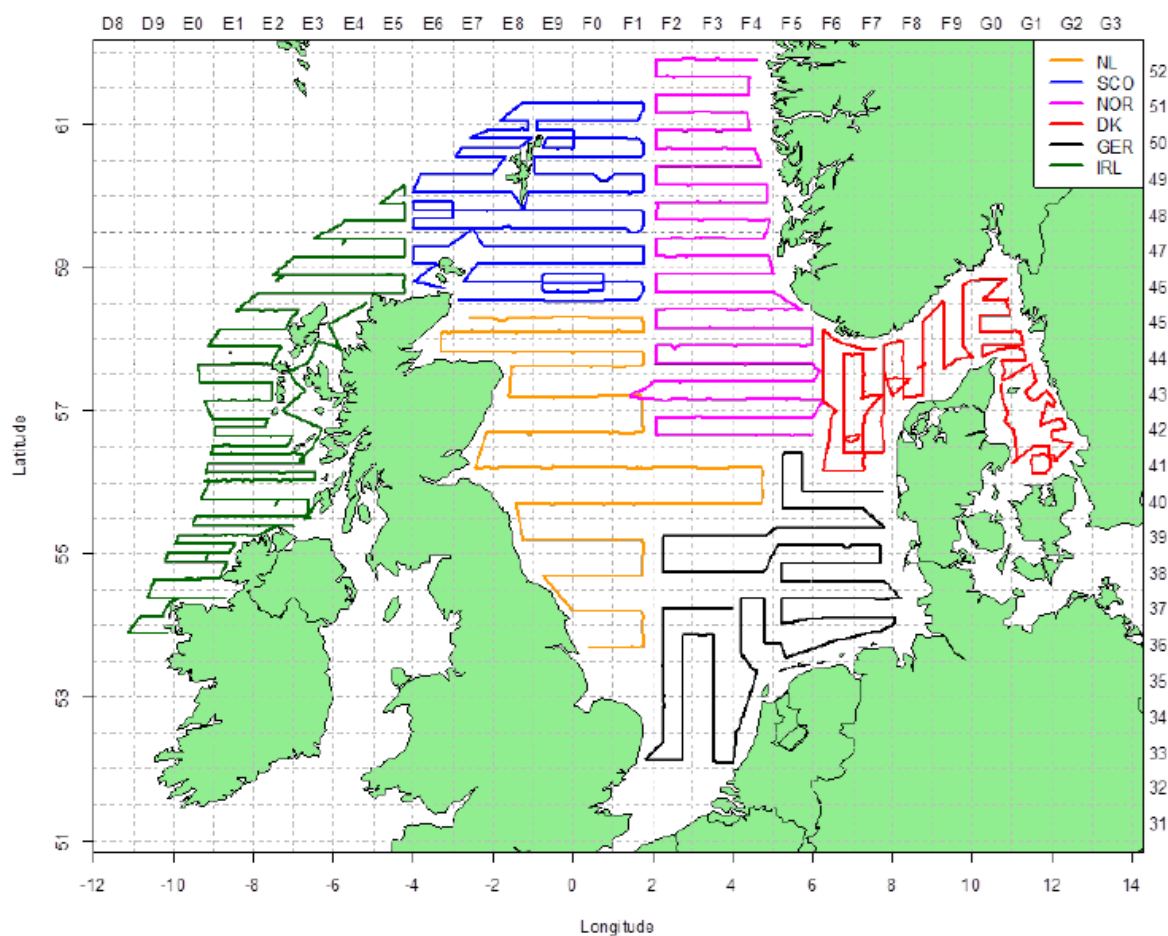
Telephone: +47 55238500

Fax: +47 55238531

Email: cecilie.kvamme@imr.no



**Figure 1.** Target areas for the International herring acoustic surveys (HERAS). The Norwegian vessel is intended to work in areas 9-10.



**Figure 2.** Survey tracks for the combined 2015 herring acoustic surveys (HERAS) (Annex 4c in ICES WGIPS 2016). The first part of the acoustic survey on saithe was also a part of the Norwegian part of this survey in 2015.

#### References:

ICES WGIPS 2016. First Interim Report of the Working Group of International Pelagic Surveys (WGIPS). ICES CM 2016/SSGIEOM:05. 439 p.