Application for Consent to conduct
Marine Scientific Research

Date: _8.11.2016_____

1. General Information

1.1 Cruise name and/or number: 2017604

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:	Jennifer Devine
Country:	Norway
Affiliation:	Institute of Marine Research
Address:	P.O.Box 1870 Nordnes N-5024 Bergen Norway
Telephone:	+47 90259201
Fax:	+47 55238500
Email:	jennifer.devine@imr.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:
Survey includes 2 hydrographic transects, one running from Hanstholm to Aberdeen, the other Utsira W to Start Point. Hydrography (nutrients, salinity, temperature), plankton, zooplankton, fish eggs and fish larvae are collected along the transect. These transects will be completed during the period Feb. 11 – Feb. 21. The second half of the survey is an acoustic survey for saithe for assessment purposes. The survey will cover transects up and down the shelf edge and include bottom and pelagic trawling for fish, egg/larvae sampling, and CTDs. Survey dates:11.02 –02.03.2017. The vessel will need access to UK waters during this entire time period.

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:
This is the beginning of a joint international acoustic survey for saithe; IMR coordinates the project.

2.3 Relevant previous or future research projects:
This is year 1 of a planned long-term survey series.

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, 09°E - 03° W Utsira W – Start Point hydrographic transect (straight line along 59.283333N) Aberdeen-Hanstholm hydropgraphic transect (straight line along 57N) Excel spreadsheet with station positions for hydrographic transects are attached. We cannot provide bottom trawling positions because bottom trawls are taken when large amounts of saithe are seen with the acoustic echosounder.

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 for map of acoustic survey area and stations along the hydrographic transects. Norway will not fish within 4 n. mi. of the UK.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Kristine Bonnevie
Type/Class:	Research vessel (trawler)
Nationality (Flag State):	Norwegian
Identification Number (IMO/Lloyds No.):	9062934
Owner:	Institute of Marine Research
Operator:	Institute of Marine Research
Overall length (meters):	56.75m
Maximum draught:	6.6 m
Displacement/Gross Tonnage:	1444 tons
Propulsion:	Dielsel
Cruising & maximum speed:	10 knots, 13 knots
Call sign:	LGWS
INMARSAT number and method and capability of communication (including emergency frequencies):	Telephone: +47 (vessel installing new sat-system; numbers to come) Telefax:: +47 E-mail: kristine.bonnevie@imr.no
Name of Master:	Tom Ole Drnage / Kjell Ove Sandøy
Number of Crew:	14
Number of Scientists on board:	11

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:
Fish	Bottom & pelagic trawls	Åkra, Campelen, Alfredo, Håstad
Fish larvae, eggs	Midwater trawl	MIK, Gulf VII
Plankton, water, algae	Midwater trawl, water collection	WP2, CTD, MOCNESS, optical counter

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:
Entry into and departure from the research area within the period 11.02 – 02.03.2017.

Vessel will enter UK waters nearly continuously throughout the survey period, so must have access for entire period. Vessel will be in UK water from 11.02 – 17.02 for transects and again after 21.02, where timing and location of the vessel will be highly weather dependent and therefore difficult to predict.
6.2 Indicate if multiple entries are expected:
Multiple entries are expected within period 11.02-17.02 and again from 21.02 to 02.03.

7. Port Calls

7.1 Dates and Names of intended ports of call:
Within the period Feb. 21-March 2, 2017, into Lerwick, Shetland and within period 11.02-17.02 into Kirkwall, Orkney and/or Aberdeen, Scotland.
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:
NA

8.2 Proposed dates and ports for embarkation/disembarkation:
NA

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 6 months, if required

9.2 Anticipated dates of submission to the coastal State of the final report:
Report within 6 months.

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

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:
NA

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

9.6 Proposed means of making results internationally available:
All data stored at IMR.

10. Other permits Submitted

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

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:
Figure of survey area. Attached excel spreadsheet detailing positions of station along the hydrographic transect. Unable to predict where bottom trawling will take place. Trawling will be done when large amounts of saithe are seen on the echosounder. Trawling will not take place within 4 n. mi. of UK.

Signature:

Contact information of the focal point:
Name: Jennifer Devine
Country: Norway
Affiliation: Institute of Marine Research
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Fax: +47 55238500
Email: jennifer.devine@imr.no

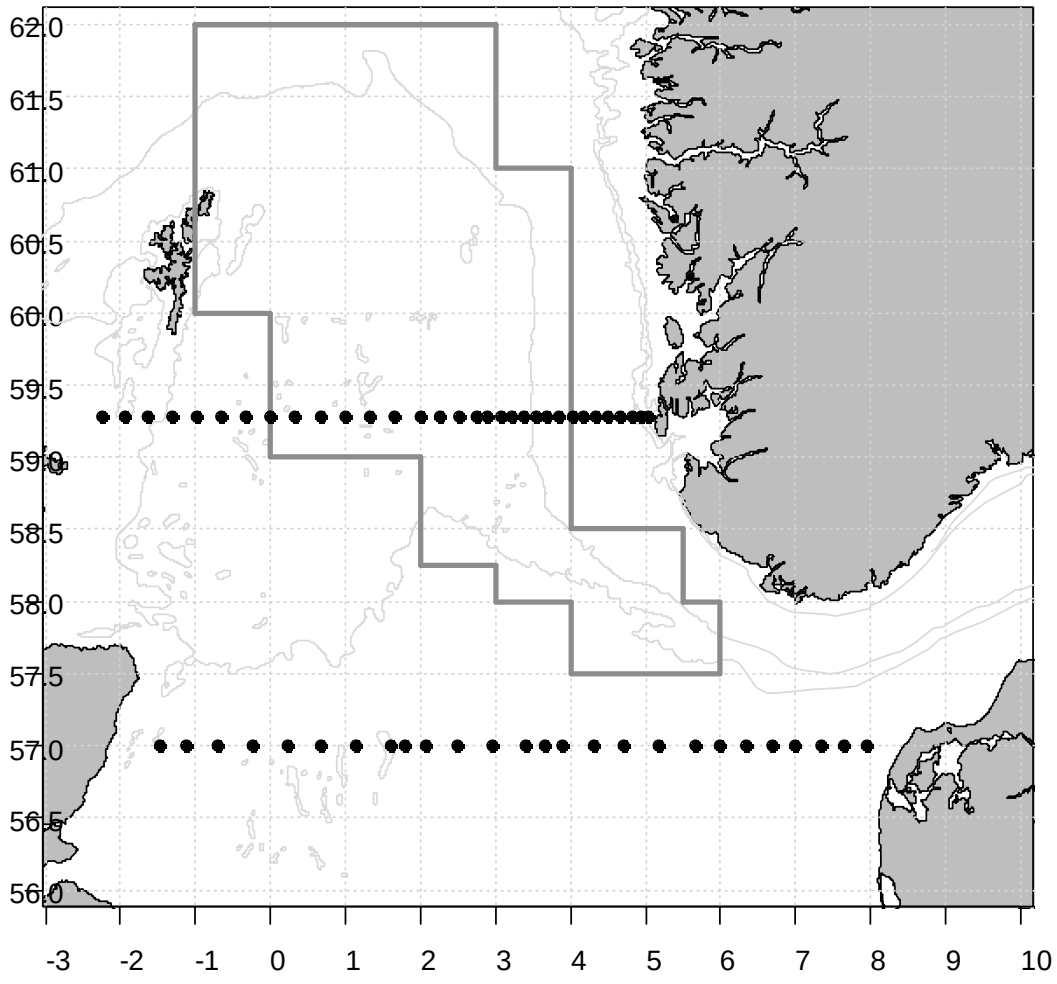

Figure 1. Hydrographic transect stations are indicated by the black dots; hydrographic transects and stations will be completed during the period 11.02-21.02. Kristine Bonnevie will work within the grey outlined area during the period 21.02 to 02.03.2017. ICES rectangles are also indicated (dotted grey lines).