Application for Consent to conduct
Marine Scientific Research

Date: October 16th, 2019

1. General Information

1.1 Cruise name and/or number: 2020602

1.2 Sponsoring Institution(s):	
Name:	Institute of Marine Research
Address:	P.O.Box 1870 Nordnes NO-5817 Bergen, Norway
Name of Director:	Sissel Rogne

1.3 Scientist in charge of the Project:	
Name:	Yves Reecht
Country:	Norway
Affiliation:	Institute of Marine Research
Address:	P.O. Box 1870 Nordnes NO-5817 Bergen, Norway
Telephone:	+47 46803946
Fax:	+47 55238500
Email:	Yves.Reecht@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:
The survey is an acoustic survey for saithe to generate indices of spawning stock biomass for assessment purposes. The survey will cover transects up and down the northern and western North Sea shelf edge and in the central part of the northern shelf. Activities include bottom and pelagic trawling for fish, egg/larvae sampling, and CTDs. Survey dates for the vessel are 02.02–01.03.2020. 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 a joint international acoustic survey for saithe. IMR coordinates the project. Participants are Norway and Germany.

2.3 Relevant previous or future research projects:
This is year 4 of a planned long-term survey.

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 for the vessels covers: 56°N - 62° N, 09°E – 04°30‘ W; Figure 1 details the survey area for the RV Kristine Bonnevie. We cannot provide bottom trawling positions because bottom trawls are taken when large amounts of saithe are seen with the acoustic echo-sounder. We will not trawl within 12 NM of the UK.

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 the vessel survey area. Norway will not sample with nets within 12 NM. 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:	RV “Kristine Bonnevie”
Type/Class:	Research/ trawler
Nationality (Flag State):	Norway
Identification Number (IMO/Lloyds No.):	9062934
Owner:	Institute of Marine Research
Operator:	Institute of Marine Research
Overall length (meters):	56.75m
Maximum draught:	7.9m
Displacement/Gross Tonnage:	1444 BT
Propulsion:	Diesel
Cruising & maximum speed:	10 knots and 13 knots
Call sign:	LGWS
INMARSAT number and method and capability of communication (including emergency frequencies):	Phone: +47 55 90 64 20 Iridium: 00 881 631 413 517 GSM: +47 99 54 85 48 Email: kbonnevie@hi.no
Name of Master:	Kjell Ove Sandøy/ Tom Ole Drange
Number of Crew:	14
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:
NA

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, GOV or Campelen, Svensk flyttrål
Fish larvae, eggs	Midwater trawl	Gulf VII
Acoustic measurements of fish	Acoustic	EK80 onboard ship

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 of the vessel into and departure from the research area within the period 02.02–01.03.2020. Vessel will be in UK waters nearly continuously throughout the survey period, so must have access for entire period.
6.2 Indicate if multiple entries are expected:
Multiple / continuous entries of the research vessel are expected within period 02.02 – 01.03.2020.

7. Port Calls

7.1 Dates and Names of intended ports of call:
Lerwick. Feb. 14-17, 2020. Would like ability to enter port (Lerwick) at any time within the survey period if sea conditions are dangerous.

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 12 months, if required

9.2 Anticipated dates of submission to the coastal State of the final report:
Report within 12 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:
Contact scientist in charge, if needed.

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 and soon at ICES, within the international acoustic database.

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 1: Survey area for Norwegian vessel.

Signature:

Contact information of the focal point:
Name: Yves Reecht
Country: Norway
Affiliation: Institute of Marine Research
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Telephone: +47 46803946
Fax: +47 55238500
Email: Yves.Reecht@hi.no

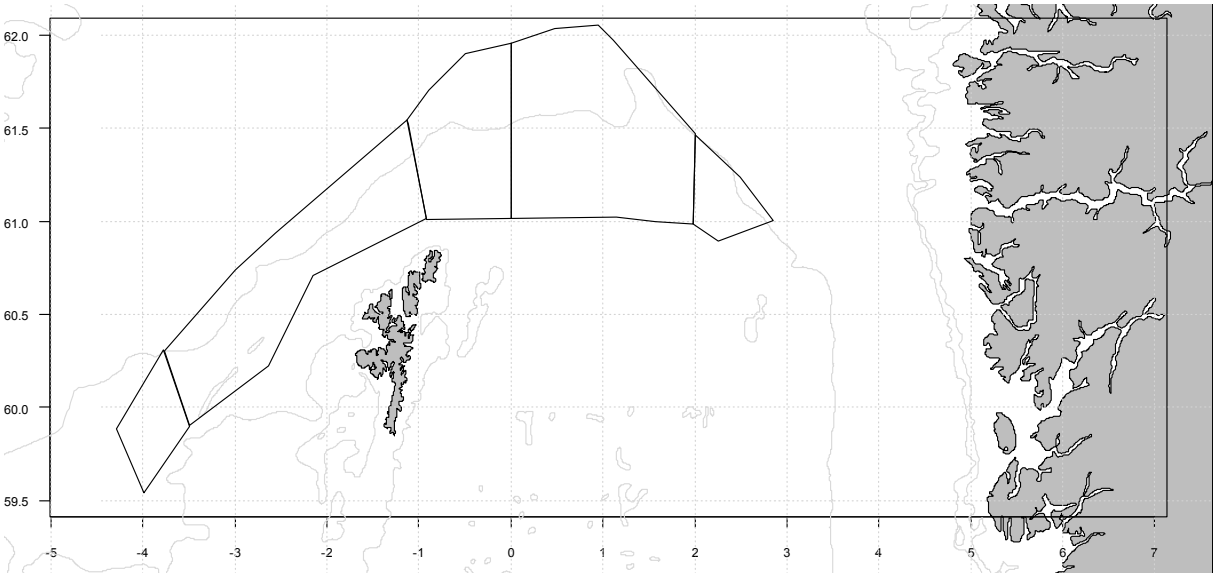

Figure 1. RV Kristine Bonnevie will work within the outlined 5 strata during the period 02.02-01.03.2020. ICES rectangles are also indicated (dotted grey lines). There may be a slight adjustment of stratum boundaries prior to the start of the survey.