Application for Consent to conduct
Marine Scientific Research

Date: 07.11.2019

1. General Information

1.1 Cruise name and/or number:
Name: IBTS Q3 2020 Number: 2020614

1.2 Sponsoring Institution(s):	
Name:	Institute of Marine Research
Address:	P.O. Box 1870 Nordnes, 5817 Bergen, Norway
Name of Director:	Sissel Rogne

1.3 Scientist in charge of the Project:	
Name:	Johanna Fall
Country:	Norway
Affiliation:	Institute of Marine Research
Address:	P.O. Box 1870 Nordnes, 5817 Bergen, Norway
Telephone:	+47 4806 3354
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Email:	johanna.fall@hi.no
Website (for CV and photo):	https://www.hi.no/hi/om-oss/ansatte/johanna-fall

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:
IBTS, International Bottom Trawl Survey, coordinated by the ICES International Bottom Trawl Survey Working Group (IBTSWG). IBTS targets the following commercial fish species: herring, cod, haddock, whiting, saithe, Norway pout, mackerel, sprat. The main objective of the IBTS quarter 3 survey is to monitor changes in these stocks independently of commercial fisheries data, and to collect data for the determination of biological parameters relevant to stock assessments. Parallel to trawling, hydrographic data (salinity, temperature) are collected.

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 Bottom Trawl Survey (IBTS) organized by the IBTSWG (ICES)

2.3 Relevant previous or future research projects:

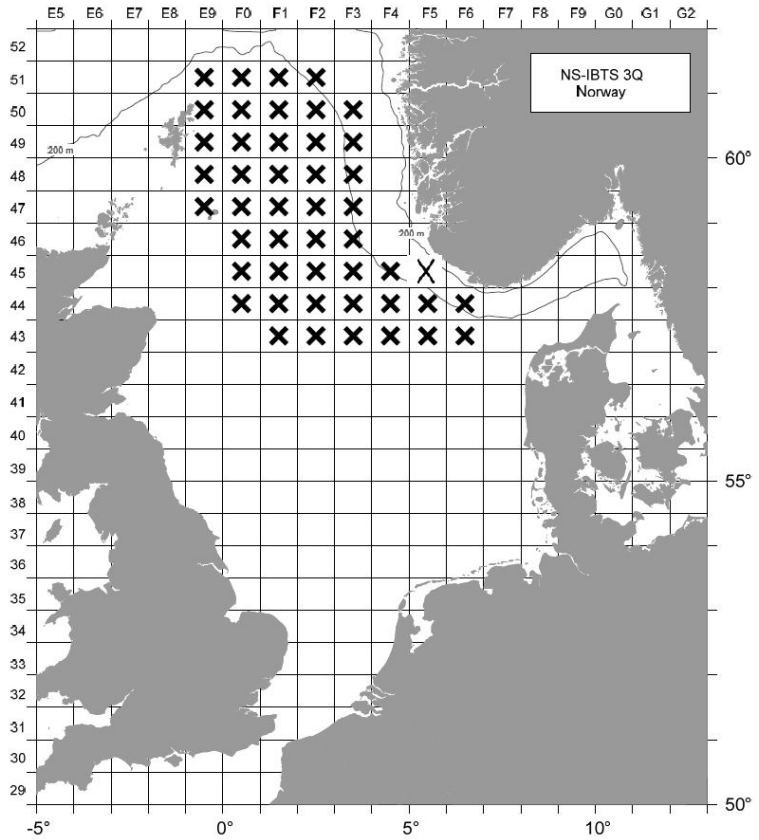
Annual survey undertaken since the 1950s.

2.4 Previous publications relating to the project:
All data from the cruise series are reported to ICES within three months, stored in the DATRAS database, and published in reports of different ICES working groups.

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.
Northern North Sea, 57°N-62°N 1°W-7°W, in those rectangles assigned to Norway by ICES (see 3.2). A list of potential coordinates is enclosed.

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.
The vessel with operate within the rectangles marked with crosses in the map. The exact trawling locations must be random and will be decided on a daily basis during the survey. However, the vessel will operate at a minimum distance of 12 nautical miles from the UK coast and outside all designated Marine Protected Areas (see also a map of previous year's trawl locations in the attached file).



4. Methods and means to be used

4.1 Particulars of vessel:

Name:	Kristine Bonnevie
Type/Class:	Research vessel
Nationality (Flag State):	Norwegian
Identification Number (IMO/Lloyds No.):	9062934
Owner:	Institute of Marine Research
Operator:	Institute of Marine Research
Overall length (meters):	56.8
Maximum draught:	6.5
Displacement/Gross Tonnage:	1444 tonnes
Propulsion:	Diesel, 2717 hp
Cruising & maximum speed:	10 / 15 knots
Call sign:	LGWS
INMARSAT number and method and capability of communication (including emergency frequencies):	Phone: +47 55 90 64 20 / GSM 99 54 85 48 Iridium: +881 631 413 517 Email: kbonnevie@hi.no
Name of Master:	Tom Ole Drange / Kjell Ove Sandøy
Number of Crew:	14
Number of Scientists on board:	8

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 and invertebrates, estimation of abundance and sampling of biological parameters (length, weight, age, maturity)	Bottom trawl, 30 min-hauls Echo sounding; continuous operation of echosounder and occasional use of sonar to monitor location of fish during trawl hauls	GOV trawl (20 mm cod end mesh size) Echosounder: Simrad EK60 (18, 38, 120 and 200 kHz split beam) Sonar: Simrad SF950 (95 kHz multibeam)
Water	Water collection	CTD-probe (SBE 911)

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:
No

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:
No

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):
None

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:
The research area will be covered within the period July 16th - August 9th 2020. The timing and location of the vessel at any given time within this period is dependent on weather conditions.
6.2 Indicate if multiple entries are expected:
Unknown, since the progress and order at which the survey rectangles will be covered is entirely dependent on the weather. To minimize fuel usage and ensure efficient progress, multiple entries may be necessary.

7. Port Calls

7.1 Dates and Names of intended ports of call:
No ports of call are planned for the UK, but the vessel might need a safe harbor in bad weather. Therefore, an option to call at Lerwick or Aberdeen at any date during the whole survey period is preferred (Lerwick preferred over Aberdeen if access to both is not possible).

7.2 Any special logistical requirements at ports of call:
None.

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

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:

8.2 Proposed dates and ports for embarkation/disembarkation:

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 from the cruise are reported to ICES within three months, stored in the DATRAS database, and published in reports of different ICES working groups.

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.:
Excel file detailing trawling locations in previous years (2016-2018).

Signature: 

Contact information of the focal point:
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