Application for Consent to conduct
Marine Scientific Research

Date: 15.10.2019 _____

1. General Information

1.1 Cruise name and/or number:
IBTS Q1, 2020102

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:	Rupert Wienerroither
Country:	Norway
Affiliation:	Institute of Marine Research
Address:	P.O. Box 1870 Nordnes, 5817 Bergen, Norway
Telephone:	+47 5523 8512
Fax:	+47 5523 5831
Email:	rupert@hi.no
Website (for CV and photo):	http://www.hi.no

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	
Affiliation:	Fisheries Research Service, Aberdeen Marine Laboratory
Address:	P.O. Box 101 Victoria Road, Aberdeen
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	http://www.marlab.ac.uk

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 finfish species: herring, cod, haddock, whiting, saithe, Norway pout, plaice, mackerel, sprat. The main objective of the IBTS is to provide recruitment indices of these commercial fish species. The whole catch will be sorted, identified, weighed, measured and counted. Plankton nets (MIK) are used to get an early indication of the potential amount of young herring, other fish larvae and pelagic eggs. 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:

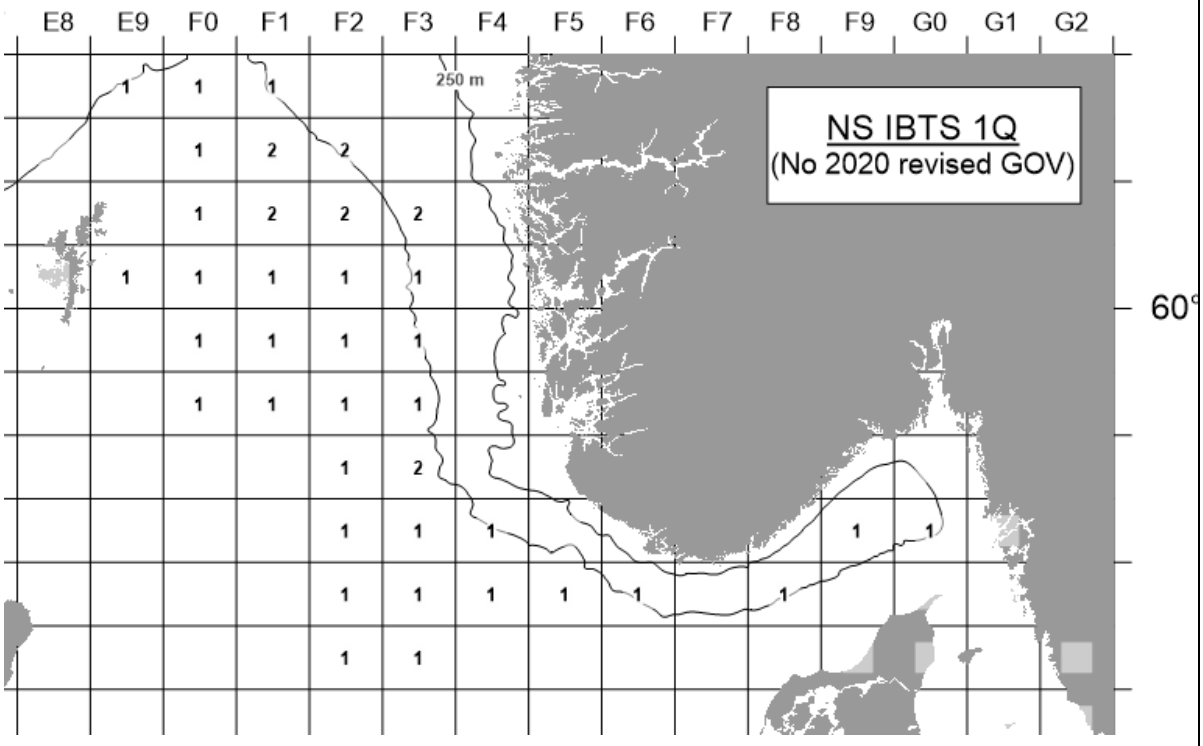
annual survey undertaken since the 1950s

2.4 Previous publications relating to the project:
all data stored and reported to ICES within 3 months

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.
The area covers 56°N-62°N, 01°W-12°E. The stations must be random and are decided on a daily basis during the survey. 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 will operate in the rectangles specified below. One station (i.e. one bottom trawl and two MIK) in each rectangle marked with “1”, double in those marked with “2”. Trawl positions in each rectangle need to be random and will be decided on a daily basis during the survey.



4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	G.O. Sars
Type/Class:	Research vessel
Nationality (Flag State):	Norwegian
Identification Number (IMO/Lloyds No.):	9260316

Owner:	Institute of Marine Research and University of Bergen
Operator:	Institute of Marine Research
Overall length (meters):	77.5
Maximum draught:	7.3
Displacement/Gross Tonnage:	4067 tonnes
Propulsion:	DC-Electric
Cruising & maximum speed:	10 knots, 17 knots
Call sign:	LMEL
INMARSAT number and method and capability of communication (including emergency frequencies):	Telephone: +47 55906440 Telefax: +47 55906441 E-mail: gosars@hi.no
Name of Master:	Svein-Roger Fredheim / John Gerhard Aasen
Number of Crew:	15
Number of Scientists on board:	10

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	bottom trawl	GOV trawl
fish larvae and eggs, plankton	midwater trawl	MIK trawl
water	water collection	CTD

4.6 Indicate nature and quantity of substances to be released into the marine environment:
NA

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:
The whole research area (cf. 3.2) will be covered within the period Feb 6th – Mar 04th 2020. Timing and location of where the vessel will be going when is highly weather dependent and therefore impossible to predict.
6.2 Indicate if multiple entries are expected:
Unknown but likely, as the track and progress of the survey is highly weather dependent. In order to keep fuel usage low and to ensure efficient progress, multiple entries might be necessary.

7. Port Calls

7.1 Dates and Names of intended ports of call:
Lerwick, Shetland, dates unknown. As the vessel might need a save harbor in bad weather, an option to enter during the whole survey period is preferred.

7.2 Any special logistical requirements at ports of call:
no

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:
via ICES

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

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

9.6 Proposed means of making results internationally available:
all data stored and reported to ICES within 3 months

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 spreadsheet with coordinates for potential trawl stations

Signature:

Contact information of the focal point:
Name: Rupert Wienerroither
Country: Norway
Affiliation: Institute of Marine Research
Address: P.O.Box 1870 Nordnes, 5817 Bergen, Norway
Telephone: +47 5523 6574
Fax: +47 5523 5831
Email: rupert@hi.no