



Søknad om forskningstokt i britisk farvann

Ref.id.: KS&SMS-5-4-03

Standard

Side 1 av 6

Application for Consent to conduct Marine Scientific Research

Date: 25 October 2018

1. General Information

1.1 Cruise name and/or number: 2019103
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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@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:
<p>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.</p> <p>Survey data for the saildrone (unmanned surface vehicle) are January 2 – March 31, 2019. The drone will collect acoustic data and will need access to UK waters for this entire period.</p> <p>Survey dates for the vessel are 5.03 –23.03.2019. The vessel will need access to UK waters during this entire time period.</p>

Dokumenter kan skrives ut, men kun elektronisk versjon ansees som oppdatert og gyldig.

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Forfatter: BTC

Godkjent av: KRR

Sist endret: 23.10.2017



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 3 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° W; Figure 1 details the survey area for the GO Sars. Figure 2 details the survey area for the autonomous saildrone.

We cannot provide bottom trawling positions because bottom trawls are taken when large amounts of saithe are seen with the acoustic echosounder. We will not trawl within 12 n mi. 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 n. mi. 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.

See Fig. 2 for the acoustic survey area that will be completed using the saildrone (UVS). Only acoustic data will be collected with this craft.

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/University of Bergen
Operator:	Institute of Marine Research
Overall length (meters):	77.5m
Maximum draught:	7.3m
Displacement/Gross Tonnage:	4067 tons
Propulsion:	DC-Electric
Cruising & maximum speed:	11-13 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:	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:
Saildrone – unmanned surface vehicle (USV), which will collect acoustic data from the area in Figure 2 during the expected period Jan 2 – March 31 2019.

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, Svensk flyttrål
Fish larvae, eggs	Midwater trawl	Gulf VII
Acoustic measurements of fish	Acoustic	USV (unmanned surface vehicle): saildrone; 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 05.03 – 23.03.2019. Vessel will be in UK waters nearly continuously throughout the survey period, so must have access for entire period.

The saildrone (USV) will be collecting data continuously from transects with the area in Figure 2 during the period Jan 2 – Mar 31, 2019. The autonomous vehicle will require access to UK waters for the 3-month period.

6.2 Indicate if multiple entries are expected:

Multiple / continuous entries are expected within period 05.03 – 23.03.2019 for the research vessel and between Jan 2-March 31 for the saildrone (USV).

7. Port Calls

7.1 Dates and Names of intended ports of call:

Lerwick. March 21-23, 2019. 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. Figure 2: Survey area for saildrone (USV).

Signature:

Contact information of the focal point:

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Country: Norway

Affiliation: Institute of Marine Research

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Fax: +47 55238500

Email: jennifer.devine@hi.no

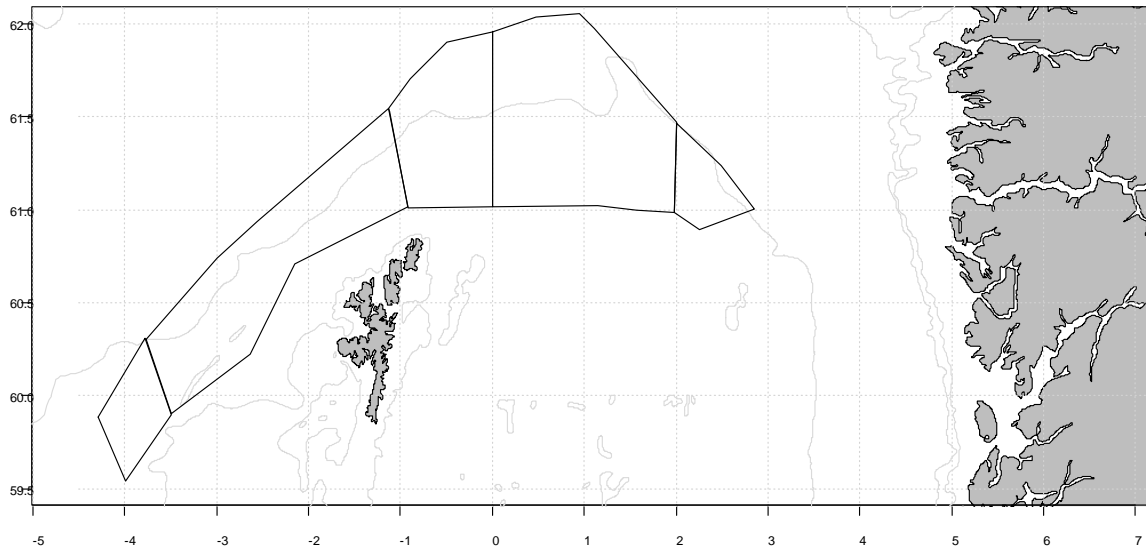


Figure 1. GO Sars will work within the outlined 5 strata during the period 05-23.03.2019. ICES rectangles are also indicated (dotted grey lines). There may be a slight adjustment of stratum boundaries prior to the start of the survey.

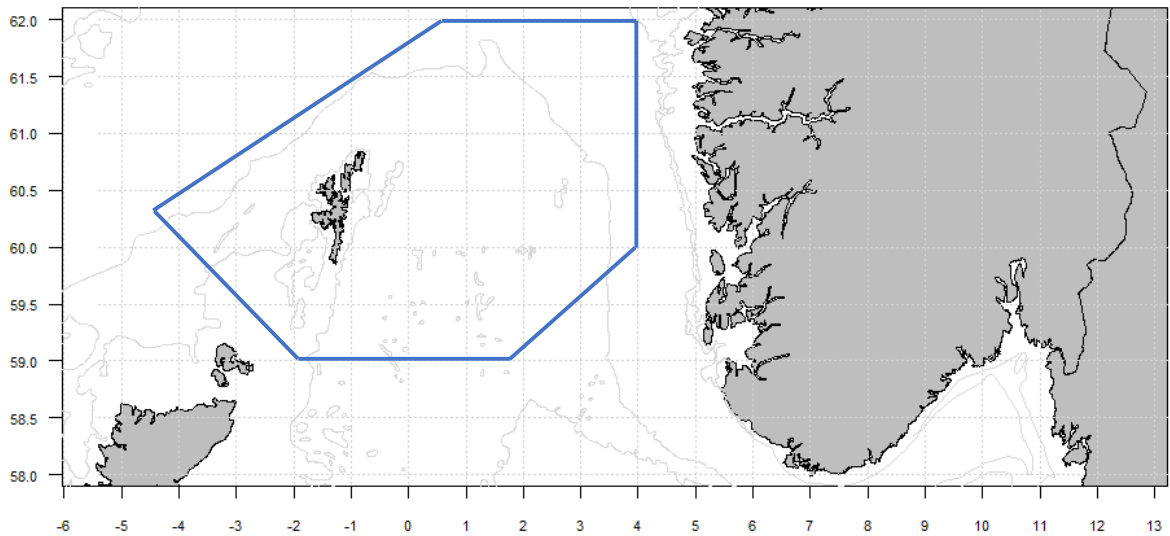


Figure 2. The unmanned surface vehicle (saildrone) will collect acoustic data from the outlined area during the period Jan 2 – March 31, 2019. No biological or water samples will be collected, only acoustic data.