APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL JURISDICTION OF THE UNITED KINGDOM

Date: 27.02.2020

1. General Information

1.1 Ship and cruise number: Tróndur í Gøtu Cruise 2052

1.2 Sponsoring institution:

Name:	Havstovan
Address:	PO Box 3051, Nóatún, FO-110 Tórshavn Faroe Islands
Name of director:	Eilif Gaard

1.3 Scientist in charge of project:

Name:	Dr. Jan Arge Jacobsen
Address:	Havstovan PO Box 3051, Nóatún FO-110 Tórshavn Faroe Islands
Telephone:	+298 353900
email:	janarge@hav.fo

1.4 Scientist from UK with knowledge of the project:

Name:	Professor Colin Moffat Head of Marine Scotland Science
Address:	SOAFD Marine Laboratory PO Box 101, Victoria Road Aberdeen AB9 8DB

1.5 Submitting officer:

Name:	Dr. Eilif Gaard
Address:	Havstovan PO Box 3051, Nóatún FO-110 Tórshavn Faroe Islands
Telephone:	+298 353900
e-mail:	eilifg@hav.fo

2. Description of Project

2.1 Nature and objectives of the project:

Assess the stock of Northeast Atlantic mackerel by swept area trawl survey method (International Ecosystem Summer Survey in the Nordic Seas, IESSNS) in July 2020. Five parties (Iceland, Faroes, Norway, Greenland and Denmark) with six vessels (see text table below) take part in the survey, coordinated by the "Working Group of International Pelagic Surveys" (WGIPS) in ICES. The aim is to use the results in the assessment of mackerel whiting by the "Working Group on Widely Distributed Stocks (Blue Whiting, NEA Mackerel, horse mackerel, and Norwegian spring spawning Herring)" [WGWIDE] in August 2020.

Ship	Nation
Tróndur í Gøtu	Faroes
Árni Friðriksson	Iceland
Vendla	Norway
Kings Bay	Norway
Eros	Greenland
Cetos	Denmark

2.2 Relevant previous or future research cruises:

Surveys in this same series in previous years

2019	28.06-13.07	Finnur Fríði
2018	01.07-19.07	Tróndur í Gøtu
2017	03.07-19.07	Tróndur í Gøtu
2016	05.07-20.07	Tróndur í Gøtu
2015	03.07-19.07	Christian í Grótinum
2014	10.07-21.07	Finnur Fríði

2.3 Previously published research data relating to the project:

ICES. 2017. Interim Report of the Working Group of International Pelagic Surveys (WGIPS), 16-20 January 2017, Reykjavik, Iceland. ICES CM 2017/SSGIEOM:15. 572 pp.

ICES. 2018. Report of the Working Group on International Pelagic Surveys (WGIPS). ICES WGIPS Report 2018 15–19 January 2018. Den Helder, the Netherlands. 340 pp.

ICES. 2019. ICES Working Group of International Pelagic Surveys (WGIPS). ICES Scientific Reports. 1:11. 493 pp. http://doi.org/10.17895/ices.pub.5122

3. Methods and Means to be Used

3.1 Particulars of vessel:

Name: M/V Tróndur í Gøtu **Nationality:** Faroese
Owner: P/f Hvamm, Gøtu
Operator: Havstovan
Overall length: 71.8 m **Maximum draught:** 7.2 m
Net tonnage: 1059 **Gross tonnage:** 3527
Propulsion: Diesel
Cruising speed: 12 kn **Maximum speed:** 16 kn
Call sign: XPXM
Registered port and number: FD 175
Method and capability of communication: Radio-telephone
Name of master: John Mikkelsen
Number of crew: 15
Number of scientists on board: 4

3.2 Aircraft or other craft to be used in the project: N/A

3.3 Particulars of methods and scientific instruments:

Types of samples and data	Methods to be used	Instruments to be used
Water	CTD + bottle sample	CTD + Rosette
Plankton	Vertical hauls	Plankton net
Fish	Horizontal hauls, surface	Pelagic trawl
Fish	Acoustic estimation	Acoustic echosounders

3.4 Indicate whether harmful substances will be used: NO

3.5 Indicate whether drilling will be carried out: NO

3.6 Indicate whether explosives will be used: NO

4. Installations and Equipment

Details of installations and equipment (dates of laying, servicing, recovery; exact locations and depth):

None

5. Geographical Areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude):

Water, plankton and fish will be sampled along the cruise transects shown in the attached chart within the approximate area 58°00'N-68°00'N and 03°00'E-15°00'W. Attached as Figure 1 in this document.

5.2 Attach chart(s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intended stations, the tracks of survey lines, and the locations of installations and equipment.

Attached as Figure 1 in this document.

6. Dates

6.1 Expected dates of first entry into and final departure from the research area of the research vessel:

The ship is expected to be in UK waters sporadically on the southern cruising legs during the period (see attached map):
Entry: 01.07.2020
Exit: 20.07.2020

6.2 Indicate if multiple entry is expected:

Yes

7. Port Calls

7.1 Dates and names of intended ports of call in the United Kingdom:

No intended port call

7.2 Any special logistical requirements at ports of call:

N/A

7.3 Name/address/telephone of shipping agent (if available):

N/A

8. Participation

8.1 Extent to which UK will be enabled to participate or to be represented in the research project:

Observers are welcome aboard.

8.2 Proposed dates and ports for embarkation/disembarkation:

Tórshavn, Faroe Islands at beginning (01.07.2020) and end (24.07.2020) of cruise.

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to UK of preliminary reports which should include the expected dates of submission of the final results:

Within six months from conclusion of cruise.

9.2 Proposed means for access by UK to data and samples:

By cruise report.

9.3 Proposed means to provide UK with assessment of data, samples and research results or provide assistance in their assessment or interpretation:

All results submitted to ICES.

9.4 Proposed means of making research results internationally available:

Through ICES Working Group reports and in published journals.

10. Scientific Equipment

Coastal State United Kingdom

Port Call No *Indicate "Yes" or "No"*

Dates N/A

LIST SCIENTIFIC WORK BY FUNCTION eg: magnetometry, gravity, diving, seismics, bathymetry, sea bed sampling, trawling, echo sounding, water sampling, u/w TV, moored instruments, towed instruments	Water column including sediment sampling of the sea bed	Fisheries research within fishing limits	Research concerning the natural resources of the Continental Shelf or its physical characteristics	Distance from coast within 12 nms	Distance from coast between 12-200 nm	(Continental Shelf work only) Beyond 200 nm but within the Continental margin
Water sampling	Yes	Yes	No	No	Yes	Yes
Plankton sampling	Yes	Yes	No	No	Yes	Yes
Pelagic trawling	Yes	Yes	No	No	Yes	Yes
Echosounding	Yes	Yes	No	No	Yes	Yes

Eilif Gaard

Dated 27 February 2020

NB: IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY

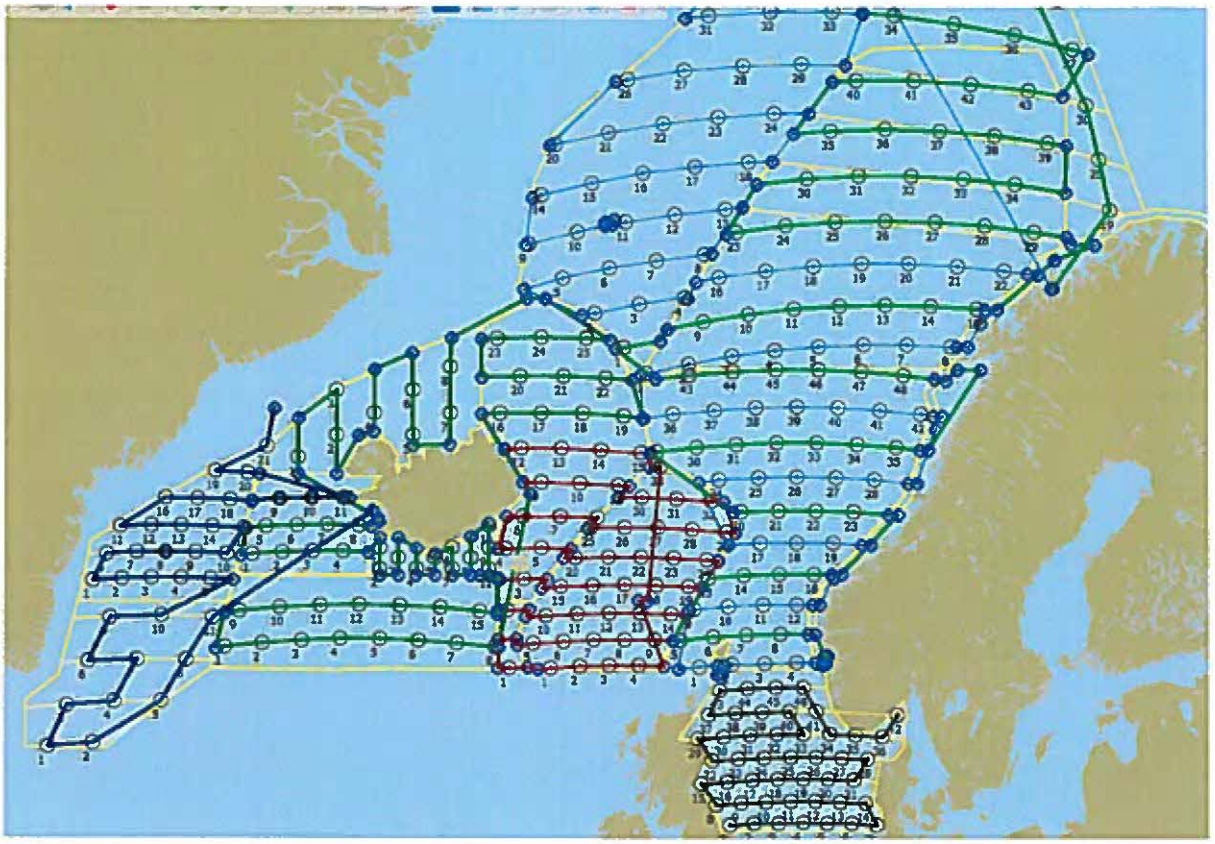

Figure 1. Map, showing the planned survey cruise tracks for all vessels in the international mackerel surveys in the Norwegian Sea (IESSNS) in July 2020. Planned survey track for the Faroese vessel, "Tróndur í Gøtu", is shown with dark red lines. The coordination of the surveys is within the ICES WGIPS with the participation of five parties: NO, IC, FO, GR and DK. The Faroese M/V "Tróndur í Gøtu" will cover the Faroese area extending into Icelandic area several times and and into UK waters on the first and southernmost leg.