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

Date: 18 November 2016

1. *General information*

1.1 Cruise name and/or number: IBTS Q1 / 2016850

1.2 Sponsoring institution:

Name: Havforskningsinstituttet
Institute of Marine Research

Address: P.O. Box 1870 Nordnes
5817 Bergen, Norway

Name of Chief Executive: Sissel Rogne

1.3 Scientist in charge of the project:

Name: Jennifer Devine

Address: P.O. Box 1870 Nordnes
5817 Bergen, Norway

Telephone: 0047 9025 9201

Telex:

1.4 Scientist(s) from **Norway** involved in the planning of the project

Name(s): Rupert Wienerroither

Address: P.O. Box 1870 Nordnes, 5817 Bergen, Norway

1.5 Submitting officer: Sharon Rosborough (On behalf of avforskningsinstituttet)

Name and address: CEFAS, Fisheries Laboratory, Pakefield Road,
Lowestoft, Suffolk, NR33 0HT

Country: United Kingdom

Telephone: 01502 524483

Telex: 97470 Telefax: 01502 513865

2. *Description of project (Attach additional pages as necessary)*

2.1 Nature of 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, mackerel, sprat. The main objective of the IBTS is to provide recruitment indices of these commercial fish species. 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 Relevant previous or future research cruises:

Annual survey undertaken since the 1950's

2.3 Previously published research data relating to the project:

All data stored and reported to ICES within 3 months

3. *Methods and means to be used*

3.1 Particulars of vessel

Name:	CEFAS Endeavour		
Nationality:	British		
Owner:	Defra/CEFAS	Operator:	Defra, Fisheries Laboratory, Lowestoft
Overall length:	73.9 m		
Maximum draught:	5.5 m		
Net tonnage:	894	Gross Tonnage:	2999
Propulsion:	DIESEL ELECTRIC		
Cruising speed:	13 k	Maximum speed:	13.8 k
Call sign:	VQHF3		

Method and capability of communication - (inc. telex, frequencies):

RT and Telex. All MF, HF and VHF frequencies.
Satcom C, Satcom F, (also known as Fleet 77.)

Name of master: Paul Kersey / Terry Byrne

Number of crew: 17

Number of scientists on board: 9

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

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):

N/A

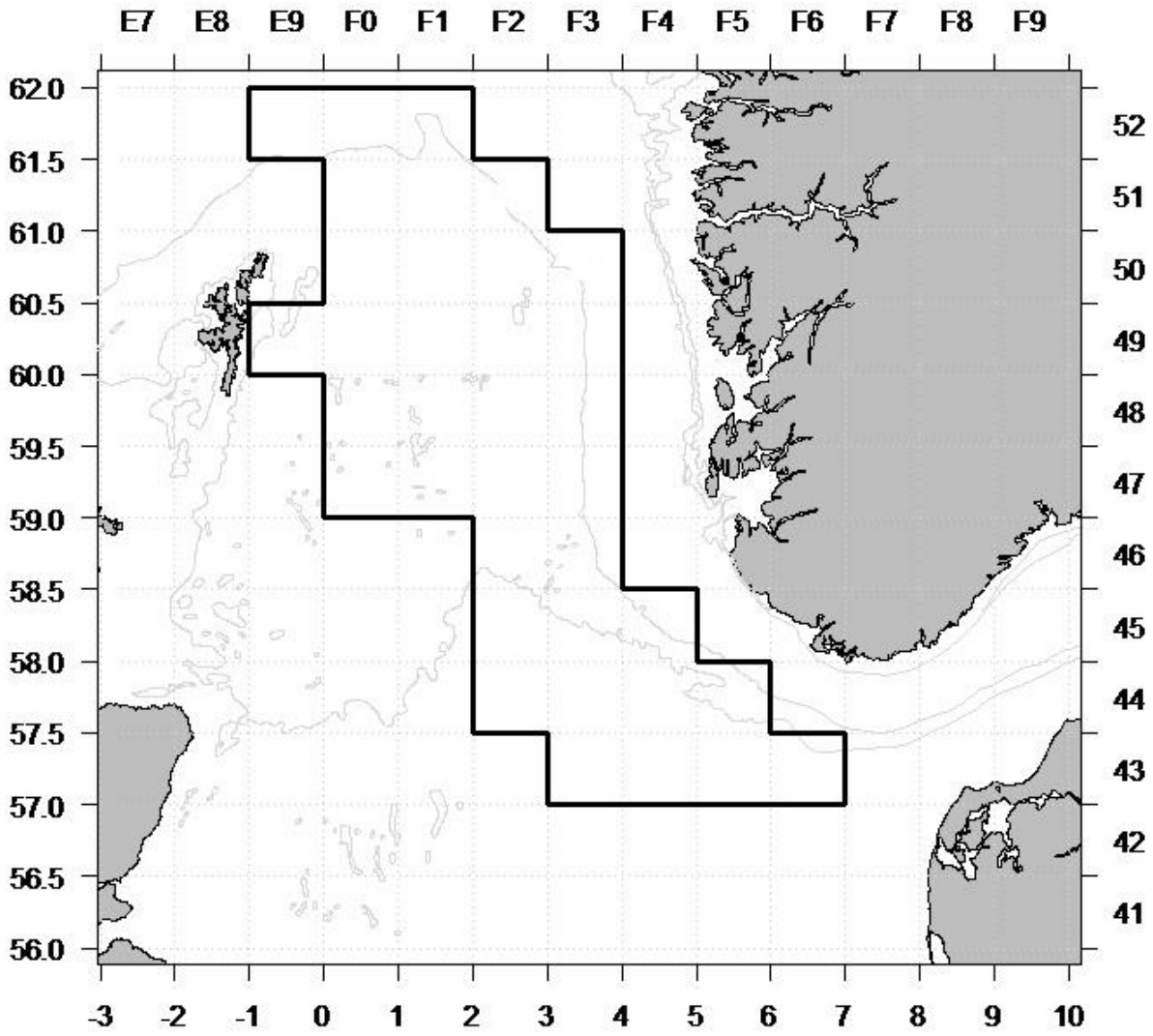
5. *Geographical areas*

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

Northern North Sea, covering 56°N-62°N, 02°W-09°E.

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.

The research vessel will work within the rectangles outlined in black, 1-2 GOV trawls and 2-4 MIK-trawls per rectangle. The stations have to be random and are decided day by day in the course of the survey.



6. *Dates*

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

The whole research area (cf. 5.2) will be covered within the period 21.01.-17.02.2017. Timing and location of where the vessel will be is highly weather dependent and therefore impossible to predict.

6.2 Indicate if multiple entry is expected:

Unknown, as the track of the survey is highly weather dependent. Ideally, the vessel would survey all of the nation's waters without re-entry.

7. *Port calls*

7.1 Dates and names of intended ports of call in

None intended, but in very bad weather conditions a port of call in Lerwick (Shetland) might occur.

7.2 Any special logistical requirements at ports of call:

No.

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

8. *Participation*

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

"One berth for an observer from each coastal state is offered, in accordance with UNCLOS Art 249 (1a) in accordance with Foreign Office guidelines".

8.2 Proposed dates and ports for embarkation/disembarkation:

Embarkation:

Disembarkation:

9. *Access to data, samples and research results*

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

within 6 months if required

9.2 Proposed means for access by to data and samples:

NA

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

NA

9.4 Proposed means of making research results internationally available:

all data stored and reported to ICES within 3 months

FCO SUMMARY FORM

COASTAL STATE

COMPLETE THE FOLLOWING TABLE -
SEPARATE PAGE FOR EACH COASTAL STATE

PORT CALL

DATES

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION eg: MAGNETOMETRY: GRAVITY DIVING : SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V.: MOORED INSTRUMENTS : TOWED INSTRUMENTS	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARCH WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTER-ISTICS	DISTANCE FROM COAST:		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
trawling (bottom)		yes	no	no	no	yes
trawling (pelagic)	yes	no	no	no	no	yes
echo sounding		yes	no	no	no	yes
water sampling	yes			no	no	yes

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(On behalf of the Principal Scientist)

Dated 18 November 2016

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