

APPLICATION FOR CONSENT TO CONDUCT MARINE  
SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL  
JURISDICTION OF **NORWAY**

(name of coastal State)

Date: 04/06/2018

**1. General Information**

1.1 Ship and cruise number: *MRV Scotia, 0918S*

1.2 Sponsoring institution:

Name: Marine Scotland Science, Marine Laboratory

Address: PO Box 101, Victoria Road, Aberdeen, AB11 9DB

Name of director: Dr Ian Davies

1.3 Scientist in charge of the project:

Name: Susan Lusseau

Address: MSS, Marine Laboratory

PO Box 101, Victoria Road

Aberdeen, AB11 9DB

Telephone: 0131 244 2500

Telefax: 01224 295511

1.4 Scientist(s) from **Norway** with knowledge of the project:

(name of coastal State)

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**1.5 Submitting officer:**

<b>Name and address:</b>	I Gibb, Marine Scotland, Marine Laboratory, Aberdeen
<b>Country:</b>	United Kingdom
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<b>Telefax:</b>	01224 295511

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

**2.1 Nature and objectives of the project:**

**Objectives**

- To conduct an acoustic survey to estimate the abundance and distribution of herring in the north western North Sea and north of Scotland between 58°30'-62°N and 8°W to 2°E, excluding Faroese waters. Norwegian clearance requested for Stat Squares 46F1 and 47F1
- To obtain biological samples for echosounder trace identification using a pelagic trawl.
- To obtain samples of herring for biological analysis, including age, length, weight, sex, maturity, ichthyophonous infection and fat content.
- To obtain hydrographic data for comparison with the horizontal and vertical distribution of herring.
- To obtain plankton samples to map the distribution and abundance of zooplankton

**2.2 Relevant previous or future research cruises:**

This is part of a continuing series of similar collaborative surveys under the auspices of ICES.

**2.3 Previously published research data relating to the project:**

Data is published annually as an ICES report of the Herring Assessment Working group. (HAWG)

### 3. Methods and Means to be Used

#### 3.1 Particulars of vessel:

**Name:** MRV Scotia      **Nationality:** UK  
**Owner:** The Scottish Ministers  
**Operator:** Marine Scotland  
**Overall length:** 68.8 m      **Maximum draught:** 6.0 m  
**Net tonnage:** 785      **Gross tonnage:** 2619  
**Propulsion:** Diesel Electric  
**Cruising speed:** 13.0 kts      **Maximum speed:** 15.0  
**Call sign:** MXHR 6

**Method and capability of communication (including telex, frequencies):**

**Masters name:** Dan Binyon  
**Number of crew:** 18  
**Number of scientists on board:** 9

**3.2 Aircraft or other craft to be used in the project:** No

**3.3 Particulars of methods and scientific instruments:**

Types of samples and data	Methods to be used	Instruments to be used
Acoustic	Echosounder	EK60 Echosounder
Biological	Pelagic Trawl	PT 160
Water / Plankton	CTD / Plankton	Seabird 19 / Methot net

**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):**

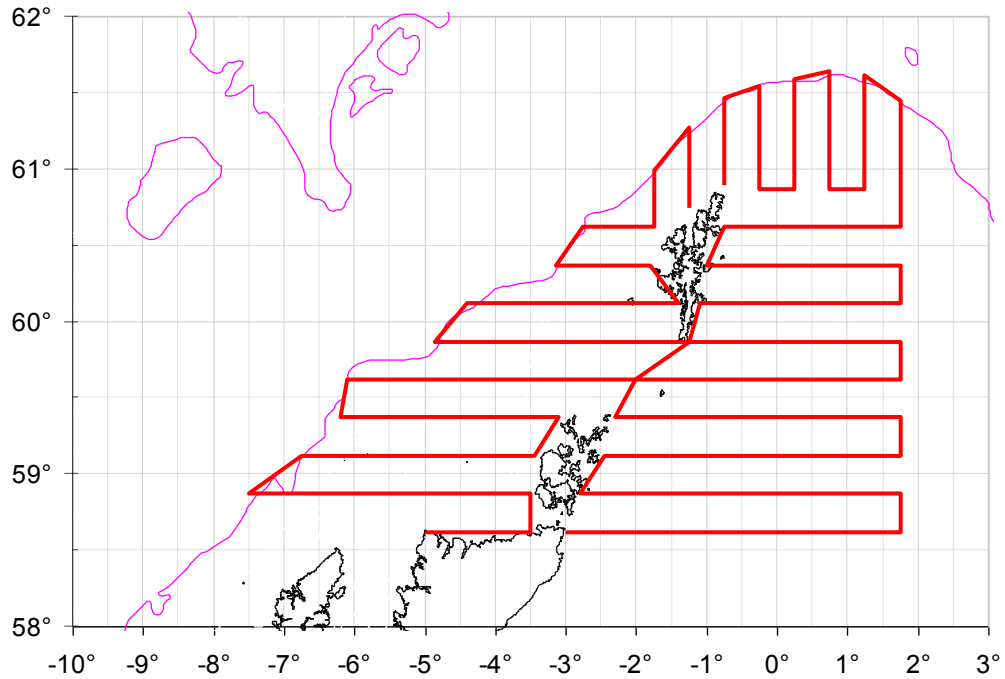
N/A

#### **5. Geographical Areas**

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

58°30'-62°N and 7°30'W to 2°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.**



Map of the North of Scotland showing the cruise track design (red lines) for the 2018 North of Scotland pelagic survey. Norwegian clearance requested for Stats Sq 46F1 and 47F1

**6. Dates** 28 June – 20 July 2018

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

29 June – 19 July 2018

**6.2 Indicate if multiple entry is expected:**

No

## **7. Port Calls**

### **7.1 Dates and names of intended ports of call in**

**Scotland**

.....  
(name of coastal State)

Lerwick: Approx 10<sup>th</sup> July 2018

### **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 Norway will be enabled to participate or to ..... (name of coastal State) be represented in the research project:**

A Norwegian  
research vessel  
takes part in the  
collaborative survey  
annually.

### **8.2 Proposed dates and ports for embarkation/disembarkation:**

Aberdeen, Scotland: 28 June and 20 July 2018

## **9. Access to Data, Samples and Research Results**

**9.1 Expected dates of submission to Norway of preliminary reports**  
(name of coastal State)

**which should include the expected dates of submission of the final results:**

Survey report to IMR, Bergen, at the end of the survey.

Preliminary data presented to PGIPS in January 2019.

HAWG by March 2019.

**9.2 Proposed means for access by Norway to data and samples:**  
(name of coastal State)

Data presented at PGIPS meeting.

Access to ICES Fishframe data base for pelagic survey data.

**9.3 Proposed means to provide Norway with assessment of data,**  
(name of coastal State)

**samples and research results or provide assistance in their assessment or interpretation:**

Data presented at PGIPS meeting.

Access to ICES Fishframe data base for pelagic survey data.

Daily radio/email contact between participating vessels during survey to advise of progress.

**9.4 Proposed means of making research results internationally available:**

ICES HAWG recommendations. ICES Fishframe data base



## 10. Scientific Equipment

Coastal State: Norway

Port Call: Not in Norway

Indicate "Yes" or "No"

Dates: N/A

LIST SCIENTIFIC WORK BY FUNCTION <small>eg: magnetometry, gravity, diving, seismics, bathymetry, sea bed sampling, trawling, echo sounding, water sampling, u/w TV, moored instruments, towed instruments</small>	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 nm	Between 12-200 nm	(Continental Shelf work only) Beyond 200 nm but within the Continental margin
Echosounding	Yes	Yes	Yes	No	Yes	No
Trawling	Yes	Yes	Yes	No	Yes	No
Plankton Sampling	Yes	Yes	Yes	No	Yes	No
Water sampling	Yes	Yes	Yes	No	Yes	No

I Gibb

(On behalf of the Principal Scientist)

Dated: 04 June 2018

**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**