

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

Date: 23<sup>rd</sup> January 2017

**1. General information**

**1.1 Cruise name and/or number:**

**1.2 Sponsoring institution:**

**Name:** Marine Institute

**Address:** Rinville  
Oranmore  
Co. Galway  
Ireland

**Name of Chief Executive:** Dr. Peter Heffernan

**1.3 Scientist in charge of the project:**

**Name:** Brendan O' Hea

**Address:** Rinville,  
Oranmore,  
Co. Galway,  
Ireland

**Telephone:** +35391387200

**Telefax:**

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

**Name(s):** Bjorn Gunnarsson  
**Address:** Marine Research Institute,  
Skulagata 4,  
121 Reykjavik,  
Iceland

**1.5 Submitting officer:**

**Name and address:**

Rinville  
Oranmore  
Co. Galway

**Country:** Ireland

**Telephone:** 00 353 91 387200

**Telefax:** 00 353 91 387201

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

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

WGMEGS have coordinated a mackerel and horse mackerel egg survey every three years since 1977. Data from the survey time series indicate that mackerel peak spawning would have taken place in May / June, to the west and southwest of Ireland. Results from the 2010 and 2013 surveys however indicated that peak spawning was occurring earlier in the year, and was becoming concentrated in Biscay and the Celtic sea.

In 2016 survey effort was moved earlier in the year to cover Biscay in the early Spring. In practice the results from the 2016 survey showed that large amounts of spawning took place to the north and northwest of Ireland and Scotland, once again in May / June. To inform planning of the 2019 survey WGMEGS has put forward a number of suggestions to acquire additional information.

One suggestion is that Ireland carries out an egg survey in the summer of 2017 on board a commercial vessel. Plankton stations will be carried out in a number of selected areas, see map, to monitor if the spawning observed in northern waters in 2016 is continuing in these areas. It is planned to survey in the boxed areas.

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

This survey will be linked to the MEGS triennial surveys, the most recent of which took place in 2016.

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

The results from previous egg surveys can be found in the WGMEGS reports in the years following the survey, the most recent of which is the 2014 report.

## **3. Methods and means to be used**

### **3.1 Particulars of vessel**

Name: Girl Stephanie  
Nationality: Irish  
Owner: Paraic Conneely, Girl Stephanie Ltd  
Overall length: 45m  
Maximum draught: 6.4m  
Net tonnage: 663t  
Propulsion:  
Cruising speed: 7.8Kts  
Call sign: EILG  
Method and capability of communication –  
Name of master: Paraic Conneely  
Number of crew:  
Number of scientists on board: 3 - 4

### **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
Plankton samples	V-shaped tows to a maximum depth of 200m	GULF VII plankton sampler

**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

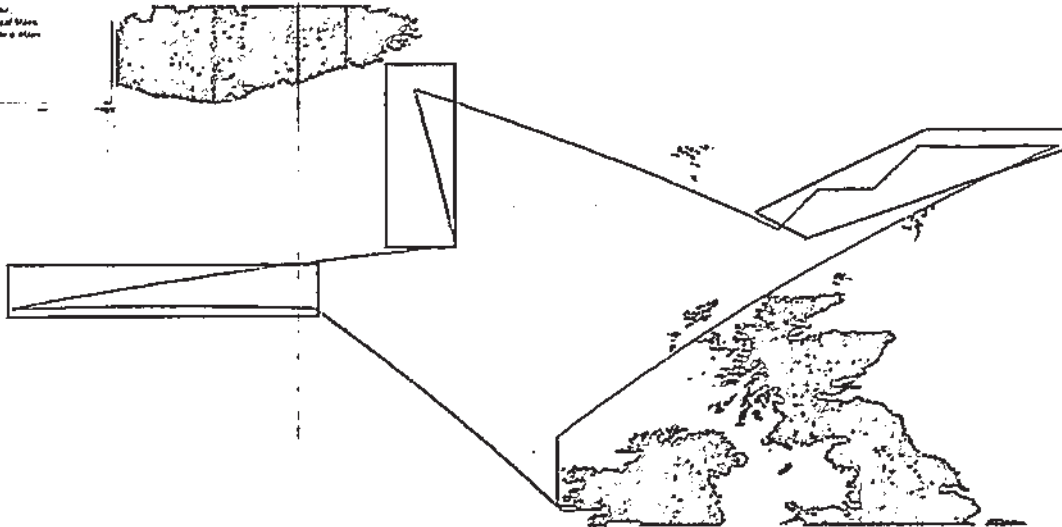
**5. Geographical areas**

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

57N 003E      57N 024W  
65N 003E      65N 024W

**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.**

NO. 5456  
7-112 (Revised March  
1983) Number 6 Area



## 6. Dates

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

May 29<sup>th</sup> to June 8<sup>th</sup> 2017

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

Unsure. The survey is adaptive and results will dictate where sampling will take place.

## 7. Port calls

**7.1 Dates and names of intended ports of calls in ICELAND:** East or Southeast Iceland between June 2<sup>nd</sup> – 5<sup>th</sup> to refuel

**7.2 Any special logistical at ports of call:** None

**7.3 Names/ Address / Telephone of shipping agent (if available)**  
N/A

## 8. Participation

**8.1 Extent to which ICELAND will be enable to participate to be represented in research project:**

Iceland is involved in the WGMEGS surveys. It is not anticipated that Icelandic scientists will be involved in this survey but they will have access to the results.

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

start date : May 27<sup>th</sup> 2017

Killybegs, Ireland

end

date : June 10<sup>th</sup> 2017

Killybegs, Ireland

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

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

The cruise report will be made available within 6 months. The final results will be available after consideration by WGMEGS in 2018.

**9.2 Proposed means for access by ICELAND to data and samples:**

Please contact the Chief Scientist with any survey data requests.

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

The results of the survey will be published by WGMEGS in the 2018 report

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

ICES working group reports

### 10. Scientific Equipment

**COMPLETE THE FOLLOWING TABLE-  
SEPARATE PAGE FOR EACH COSTAL STATE:**

INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION Eg: MAGNETOMETRY:				DISTANCE FROM COAST
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GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV MOORED INSTRUMENTS TRAWLING ECHO SOUNDING WATER SAMPLING	Water column includin g sedimen t samplin g of the Seabed	Fisheri es researc h within fishing limits	Research concerni ng the natural resource s of the continen tal shelf or its physical character istics	Within 12nms	Between 12-200nms	(Continental shelf work only)  Beyond 200nm but within the continental margin
WATER SAMPLING		Yes		Yes	Yes	<u>Yes</u>

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(On behalf of the Principle Scientist)

Dated -----