

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

**Date : 20.01.12**

**1 - GENERAL INFORMATION**

**1.1. Cruise name and/or number : CE12009**

**Northwest Herring Acoustic Survey**

**1.2. Sponsoring institution :**

Name : Marine Institute

Address : Rinvile, Oranmore, Co. Galway, Ireland

Phone : 091 387 200

Fax : 091 387 201

Director : Dr. Peter Heffernan

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

Name : Ciaran O'Donnell

Address : Marine Institute, Rinvile, Oranmore, Co. Galway, Ireland

Phone : 091 387 200

Fax : 091 387 201

Email : Ciaran.odonnell@marine.ie

**1.4. Scientist from Marine Institute involved in the planning of the project :**

Name : Ciaran O'Donnell

Address : Marine Institute, Rinvile, Oranmore, Co. Galway, Ireland

Phone : 091 387 200

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**1.5. Submitting officer:**

Name : Bernadette Ní Chonghaile

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Phone : 091 387 200

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Email : Bernadette.nichonghaile@marine.ie

## **2 - DESCRIPTION OF THE PROJECT**

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

Determine the relative abundance and age structure of summer feeding aggregations of herring along the Malin shelf to the West and Northwest of Ireland. This survey will be jointly carried out with Marine Scotland (Aberdeen) and is internationally coordinated through ICES.

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

This International survey program was initiated in 2007 and has run annually since then. Data collected is used during the assessment of this stock for fishery applications within ICES.

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

<http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=77>

### 3 - METHODS AND MEANS TO BE USED

#### 3.1. Particular of vessel

Name : RV Celtic Explorer  
Nationality : Irish  
Owner : Marine Institute  
Overall length : 65.5m  
Maximum draught : 5.8m  
Net tonnage : 727T  
Gross tonnage : 2425T  
Propulsion : 2 x Wartsila 9L20, 1620kW/1000rpm, 690Vac. 1 x Wartsila 6L20, 1080kW/1000rpm, 690Vac  
Cruising speed : 10kn  
Maximum speed : 16Kn  
Call sign : EIGB  
Method and capability of communication (including telex, frequencies) :  
Vsat Satellite Broadband, Imarsat – c, HF, VHF, Mini-M

Name of master : Antony Hobin/Dennis Rowan  
Number of crew : 15  
Number of scientists on board : 10

#### 3.2. Aircraft or other craft to be used in the project :

NA

#### 3.3. Particulars of methods and scientific instruments :

Types of samples and data	Methods to be used	Instruments to be used
Acoustic data	ER60 Scientific Echosounder	ER60 Scientific Echosounder
Biological	Trawling	Pelagic mid-water trawl
Temperature & Salinity	Vertical cast of sensor	CTD

#### 3.4. Indicates whether harmful substances will be used :

NA

#### 3.5. Indicate whether drilling will be carried out :

NA

### 3.6. Indicate whether explosives will be used :

NA

## 4 - INSTALLATIONS AND EQUIPMENTS

Details of installations and equipments (dates of laying, servicing, recovery, exact locations and depth)

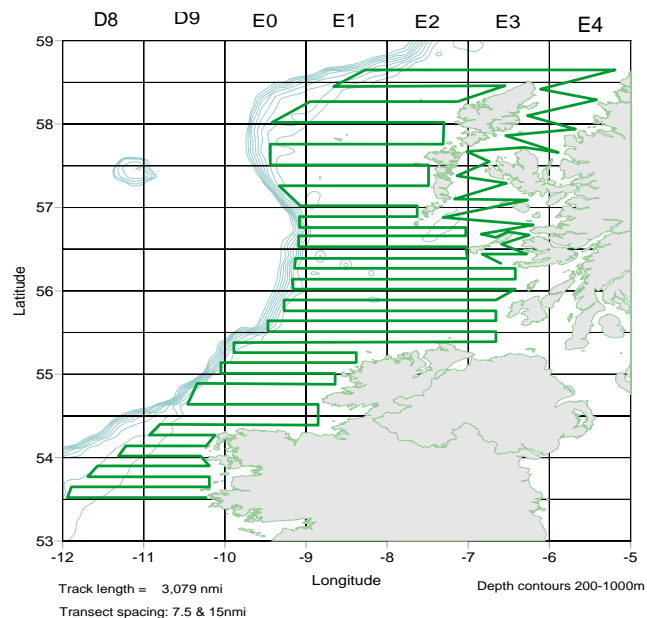
NA

## 5 - GEOGRAPHICAL AERAS

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

From 50m inshore contour to the 250m depth contour and working from 53.30°N to 58.30°N lines of latitude. Area will be surveyed using a combination of parallel east-west transects spaced between 15nmi (nautical miles) and 7.5nmi

### 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 :



**Figure 1.** Preliminary cruise tracks for the Celtic Explorer as planned for 2012. Transect spacing 15nmi and 7.5nmi for parallel transects and zigzag transects for the Minches area.

## 6 - DATES

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

**entry**      date : 21.06.12

**departure**    date : 10.07.12

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

Yes

## 7 - PORTS CALLS

**7.1. Dates and names of intended ports of call in:** NA

**7.2. Any special logistical requirements at ports of call : NA**

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

## 8 - PARTICIPATION

**8.1. Extent of which Marine Institute will be enabled to participate or to be represented in the research project :**

Scientific observers are welcome on the survey and the availability of berths has been communicated to Marine Scotland

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

**start**            date : Belfast (TBC)                      21.06.12

**end**            date : Dublin                            10.07.12

## 9 - ACCESS TO DATA, SAMPLES AND RESEARCH RESULTS

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

03.12.12

**9.2. Proposed means for access by ICES to data and samples**

Through the ICES forum: WGIPS (Working Group of International Pelagic Surveys)

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

Through the ICES forum: WGIPS (Working Group of International Pelagic Surveys)

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

Through the ICES forum : WGIPS (Working Group of International Pelagic Surveys)

## 10. Scientific Equipment

**COMPLETE THE FOLLOWING TABLE-**

**SEPARATE PAGE FOR EACH COSTAL STATE:**

INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION Eg: MAGNETOMETRY: GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV MOORED INSTRUMENTS TRAWLING ECHO SOUNDING WATER SAMPLING	Echosounder (Fisheries capability)	Fisheries research within fishing limits	Fisheries and physical oceanography	DISTANCE FROM COAST		
				Coast (50m)	Shelf Edge 250m	Based on self and to shelf edge (250m contour)
WATER SAMPLING	Yes	Yes	YES	Yes	Yes	
PROFILING INSTRUMENTS	YES	Yes	YES	Yes	Yes	
ABOVE WATER OPTICS AND PHOTOGRAPHY	No	No	No	No	No	

Ciaran O'Donnell  
(On behalf of the Principle Scientist)

Dated 20.01.12

Updated: