

Application for Consent to conduct  
Marine Scientific Research

Date: 27\11\2013

1. General Information

1.1 Cruise name and/or number:
Northwest Herring Acoustic Survey

1.2 Sponsoring Institution(s):	
Name:	Marine Institute
Address:	Rinville, Oranmore, Co. Galway, Ireland
Name of Director:	Dr. Peter Heffernan

1.3 Scientist in charge of the Project:	
Name:	Cormac Nolan
Country:	Ireland
Affiliation:	Marine Institute
Address:	Rinville, Oranmore, Co. Galway, Ireland
Telephone:	+353 (0)91 387 302
Fax:	+353 (0)91 387 201
Email:	cormac.nolan@marine.ie
Website (for CV and photo):	

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	NA
Affiliation:	
Address:	
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:
To determine the relative abundance and age structure of summer feeding aggregations of herring along the Malin shelf to the West and Northwest of Ireland.

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:
This survey will be jointly carried out with Marine Scotland (Aberdeen) and is internationally coordinated through ICES (WGIPS: Working Group on International Pelagic Surveys).

2.3 Relevant previous or future research projects:
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.

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2.4 Previous publications relating to the project:  
<http://www.ices.dk/community/groups/Pages/WGIPS.aspx>

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.

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

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.

See attached preliminary cruise tracks for the Celtic Explorer as planned for 2014. Transect spacing 15nmi and 7.5nmi for parallel transects and zigzag transects for the Minches area.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Celtic Explorer
Type/Class:	Multipurpose Research Vessel
Nationality (Flag State):	Irish
Identification Number (IMO/Lloyds No.):	D100 A1 ICE CLASS ID + UMS +SCM DP (CM)
Owner:	Marine Institute
Operator:	P&O Maritime Services
Overall length (meters):	65.5
Maximum draught:	5.7m
Displacement/Gross Tonnage:	2425T
Propulsion:	2 x 1530 KW, 1000Rpm, 1 x 1020 KW, 1000 Rpm
Cruising & maximum speed:	10 & 16 knots
Call sign:	EI GB
INMARSAT number and method and capability of communication (including emergency frequencies):	00353 91 423397 / 00353 91 423433 00870 763066743 00 353 87 9678520 / 00 353 86 1735500
Name of Master:	Antony Hobin/Denis Rowan
Number of Crew:	13-15
Number of Scientists on board:	18-20 max

4.2 Particulars of Aircraft:		NA
Name:		
Make/Model:		
Nationality (flag State):		
Website for diagram & Specifications:		
Owner:		
Operator:		
Overall Length (meters):		

Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication (including emergency frequencies):	
Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV):	NA
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication (including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:	NA

4.5 Particulars of methods, full description of scientific instruments to be used (for fishing gear specify type and dimension) and location			
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Acoustic data	ER60 Scientific Echosounder	ER60 Scientific Echosounder	Yes
Biological	Trawling	Pelagic mid-water trawl	Yes
Temperature & Salinity	Vertical cast of sensor	CTD	Yes

4.6 Indicate nature and quantity of substances to be released into the marine environment:
None

4.7 Indicate whether drilling will be carried out. If yes, please specify:
No

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name, Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of Detonation, and position in latitude and longitude:

No

5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):

NA

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:

Entry: 22\6\2014  
Departure: 12\07\2014

6.2 Indicate if multiple entries are expected:

Yes

7. Port Calls

7.1 Dates and Names of intended ports of call:

NA

7.2 Any special logistical requirements at ports of call:

NA

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

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research Project:

NA

8.2 Proposed dates and ports for embarkation/disembarkation:

Embark: 22\06\2014, Galway (TBC)  
Disembark: 12\07\2014, Galway

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include The expected dates of submission of the data and research results:

01\12\14

9.2 Anticipated dates of submission to the coastal State of the final report:

01\12\14

9.3 Proposed means for access by coastal State to data (including format) and samples:

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:

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

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:

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

9.6 Proposed means of making results internationally available:

Through the ICES forum: WGIPS (Working Group of International Pelagic Surveys).  
Plus the Marine Institute Open Access Repository (<http://oar.marine.ie/>)

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

NA

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

Signature: Cormac Nolan

Contact information of the focal point:

Name: Cormac Nolan

Country: Ireland

Affiliation: Marine Institute

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