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

Date: 24.08.2007

1. General information

- 1.1 Cruise name and/or number: Northwest Herring Acoustic Survey
- 1.2 Sponsoring institution:

Name:

Marine Institute

Address: Rinville

Oranmore Galway Ireland

Name of Chief Executive: Dr. Poter Heffernan

1.3 Scientist in charge of the project:

Name:

Ciaran O'Donnell

Address:

Rinville

Oranmore Galway Ireland

Telephone: +353 091 730 494

Telefax: +353 091 730 470

1.4 Scientist(s) from UNITED KINGDOM involved in the planning of the project

Name(s): NA

Address:

1.5 Submitting officer:

Name and address: Bernadette Ni Chonghaile

Marine Institute

Rinville Oranmore Galway

Country:

Ireland

Telephone:

+353 091 730 494

Telefax:

+353 091 730 470

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

2.1 Nature of objectives of the project:

To assess the size of the summer feeding aggregations of Herring (Chapea herrengus) in ICES divisions VlaS and Vllb-c, using acoustic methods as a means of estimating the abundance. As part of our commitment to the EU data collection regulation and also as a means of monitoring the stock for stock assessment and management purposes, independent of commercial fishery data (ICES).

To work along a predetermined survey track and carry out single midwater pelagic trawling operations where necessary to determine the make up of insonified fish traces.

To collect biological data from fish samples.

Salinity, temperature and depth profiling along pre-determined points over course of the cruise track.

2.2 Relevant previous or future research cruises:

This survey has been carried out annually since 1994 in ICES areas VlaS and Vllb-c (with a break in time series between 1997-1999) on Autumn/Winter spawning and pre-spawning aggregations. Prior to this a larval survey programme was carried out between 1981-1986. This years survey is to re-visit summer spawning aggregations first surveyed in 1994 (-1996).

2.3 Previously published research data relating to the project:

Marine Institute Survey Cruise Reports (internal publications): Available on request

Fernandes 1994-1996 Breslin 1999- 2000 Breslin & Griffin 2001e- 2002 O'Donnell et al. 2003-2007

The survey data is also submitted to the annual ICES, Herring Assessment Working Group (HAWG) where it is used to form management advice for the coming year through ACPM.

3. Methods and means to be used

3.1 Particulars of vessel

Name:

Celtic Explorer

Nationality:

Irish

Owner:

Marine Institute

Overall length: Maximum draught: 65.5m 5.7m

Net tonnage:

727

Propulsion:

2 x 1530 KW, 100 ORpm, 1 x 1020 KW, 1000 Rpm

Cruising speed:

10 Kts

Call sign:

EL

Method and capability of communication -

Name of master: Ciaran Flanigan/ Phillip Baugh

Number of crew: 12

Number of scientists on board: 8-10

3.2 Aircrast or other crast 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
Acoustic	Pre-determined cruise track, 24 hr data collection	Keel mounted Simrad ER 60 Scientific
	and processing	echosounder :
Llydrography	Set stations along croise track	ScaBird CTD rosette water sampler
Biological samples	Sampling fish traces to determine composition	Single midwater polagie trawl

- 3.4 Indicate whether harmful substances will be used: N/A
- 3.5 Indicate whether drilling will be carried out: N/A
- 3.6 Indicate whether explosives will be used: N/A

4. Installations and equipment

Details of installations and equipment (dates of laying, servicing, recovery, exact locations and depth): N/Λ

5. Geographical areas

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

Only area where we are applying for permission to enter into UK territorial waters is in the area around the Stanton Bank to the north of the 56° N (Approx outline positions of Stanton Bank: 56° 20N/08°20W; 56° 20N/07°30W;, 56° 0.4N/08°20W; 56° 0.4N/07°30W) and with a possibility of work into the northern limits of the Irish Sea (TBC) to the east of 07°25W. Stanton Bank area is a known area for herring distribution and as a result to try to contain the stock within the survey boundary we need access to this area.

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. Proposed cruise track for summer 2008 survey. Exact coverage yet to be determined.

6. Dates

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

Provisional dates:

Start 1" July Finish 21" July

21 days in total.

6.2 Indicate if multiple entry is expected:

The survey consists of transects which run perpendicular to the Irish coastline. Entry into UK waters will consist of a period of no more than 72 hrs and would be expected to be around the 9th of July as current plans suggest, this of course being related to the provisional dates listed above.

7. Port calls

- 7.1 Dates and names of intended ports of calls in UNITED KINGDOM: N/A
- 7.2 Any special logistical at ports of call: N/A
- 7.3 Names/ Address / Telephone of shipping agent (if available)

P&O Maritime

8. Participation

8. 1 Extent to which UNITED KINGDOM will be enable to participate to be represented in research project: The MI are open to participation from the UK, the survey with be

- 8.1 Extent to which UNITED KINGDOM will be enable to participate to be represented in research project: UK scientists currently participate in this survey in the International forum.
- 8.2 Proposed dates and ports for embarkation / disembarkation:

Irish coasta 1 ports only.

- 9. Access to data, samples and research results
- 9.1 Expected dates of submission to UNITED KINGDOM preliminary reports which should include the expected dates of submission of the final results:

AUGUST 20\08

9.2 Proposed means for access by UNITED KINGDOM to data and samples:

Through ICE'S PGNAPES forum or through direct contact with the Cruise Leader (contact details provided)

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

Through ICES PGNAPES forum or through direct contact with the Cruise Leader (contact details provided)

9.4 Proposed means of making research results internationally available:

Through ICES PGNAPES forum

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10. Sciencific Equipment

SEPARATE PAGE FOR EACH COSTALE YOR UNDICATE YES OR UNDICATE YES. COMPLETE THE FOLLOWING TABLE.

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