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

Date: 01.11.06

1. General information

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

Name:

Marine Institute

Address:

Rinville

Oranmore Galway Ireland

Name of Chief Executive: Dr. Peter Heffernan

1.3 Scientist in charge of the project:

Name:

Claran O'Donnell

Address:

Marine Institute

Rinville. Oranmore. Galway Ircland

Telephone: +353 091 387200

Telefax:

+353 091 387201

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: Andhan Fitzgerald

Kinville Openmore Galway

Country:

Ireland

Telephone: 00 333 91 387 200

Telefax:

00 353 91 387 201

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

2.1 Nature of objectives of the project:

To assess the size of the autumn and winter spawning components of the Herring (Chipea herrengus) stock in ICES divisions VIaS and VIIb-e, using acoustic methods as a means of estimating the abundance of pre-spawning and spawning lish. 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. To collect scahed information and multibeam data from inshore grounds along the Irish coast to be used for habitat mapping of herring spawning grounds.

Salinity, temperature and depth profiling along set 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 VIaS and VIIb-c (with a break in time series between 1997-1999). Prior to this a larval survey programme was carried out between 1981-1986.

2.3 Previously published research data relating to the project:

Marine Institute Survey Cruisc Reports (internal publications): Available on request Fernandes 1994-1996
Breslin 1999- 2000
Breslin & Griffin 2001c- 2002

O'Donnell et al. 2004-2006

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 ACFM.

3. Methods and means to be used

3.1 Particulars of vessel

Name: Celtic Explorer

Nationality: Irish

Owner: Marine Institute

Overall length: 65.5m Maximum draught: 5.7m Not tonnage: 727

Propulsion: 2 x 1530 KW, 1000Rpm, 1 x 1020 KW, 1000 Rpm

Cruising speed: 14 Kts
Call sign: [3]

Method and capability of communication -

Name of master: Ciaran Flanigan/ Phillip Baugh

Number of crew: 12

Number of scientists on board: 8

3.2 Aircraft or other craft 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 craise track, 24 hr data collection and processing	Keel mounted Simrad ER 60 Scientific echosounder		
Hydrography	Set stations along cruise track	SeaBird CTD rosette water sampler		
Biological samples	Sampling fish traces to determine composition	Single midwater pelagic 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/A

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).

This 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.

6. Dates

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

Provisional dates:

Start 3th January Finish 23th January

- 21 days in total.
- 6.2 Indicate if multiple entry is expected:

The survey consists of transects which run perpendicular to the trish coastline. Entry into UK waters will consist of a period of no more than 24 hrs and would be expected to be around the 12th of January. 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)

MTDS.....

- 8. Participation
- 8.1 Extent to which UNITED KINGDOM will be enable to participate to be represented in research project; N/A
- 8.2 Proposed dates and ports for embarkation / disembarkation:

irish coastul ports only.

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

MARCH, 2007

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

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

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

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

9.4 Proposed means of making research results internationally available:

Through ICES HAWG forum

10. Scientific Equipment

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

INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION Eg: MAGNETOMETRY:	Providence and of the same			DISTANCE FROM COAST		
GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV MOORED INSTRUMENTS TRAWLING ECHO SOUNDING WATER SAMPLING WATER SAMPLING	Water column includin g sedimen t samplin g of the Seabed	Fisheri es researe h within fishing limits	Research concerni ng the natural resource s of the continen tal shelf or its physical character i-sties	Within 12ams	Perween 12-200nms Yes Yes Yes Yes	(Continental shelf work only) Beyond 200nm but within the continental margin
WATER SAMPLING		Yes			-	
PROFILING INSTRUMENTS	AND THE PARTY OF T	· ·· · · · · · · · · · · · · · · · · ·	**************************************	am V e h . Im Jinghi dha ghiliphe sh a c v . n		
ABOVE WATER OPTICS AND PHOTOGRAPHY			and optimization (CV)	g j Almanda		

(On behalf of the Principle Scientist)

Deted