

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

Date: 20-01-06

1. General information

1.1 Cruise name and/or number:

1.2 Sponsoring institution:

Name: Marine Institute

Address: Galway Technology Park
Parkmore Business Park West
Galway
Ireland

Name of Chief Executive: Dr. Peter Heffernan

1.3 Scientist in charge of the project:

Name: Hans Gerritsen

Address: Galway Technology Park
Parkmore Business Park West
Galway
Ireland

Telephone: +353 91 780368

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

Name(s): Mike Armstrong

Address: CEFAS
Pakefield rd
Lowestoft
UK

1.5 Submitting officer:

Name and address: Carol Maloney
Galway Technology Park
Parkmore
Galway

Country: Ireland

Telephone: 00 353 91 730400

Telefax: 00 353 91 730465

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

2.1 Nature of objectives of the project: Groundfish survey in the Irish Sea. Objectives are collection of information on maturity, sex ratio and fecundity of a number of fish species.

2.2 Relevant previous or future research cruises: Biological survey on the Celtic Voyager in March 2004; Groundfish Survey on the Celtic Explorer in November 2003 and 2004

2.3 Previously published research data relating to the project:

Gerritsen HD and McGrath D. (2006) Variability in the assignment of maturity stages of plaice (*Pleuronectes platessa* L.) and whiting (*Merlangius merlangus* L.) using macroscopic criteria. Fisheries Research 77 (1): 72-77

Armstrong M, Bromley P, Schön PJ, Gerritsen H, Changes in growth and maturity in expanding and declining stocks: evidence from haddock, cod and whiting populations in the Irish and Celtic Seas. ICES CM 2004/K:09

Gerritsen, H. 2005. Biological parameters for Irish Demersal Stocks in 2004; Maturity, sex ratio, length and weight at age estimates for cod, haddock, whiting, megrim, black sole, plaice, anglerfish, black-bellied anglerfish and hake around the Irish coast. WDS to ICES WGNSSDS

Schön PJ, Armstrong M, Gerritsen H, Allen M. Changes in growth and maturity in cod and whiting in the Irish Sea. Working Document of the ICES Study Group on Growth, Maturity and Condition in Stock Projections. SGGROMAT 2004.

3. Methods and means to be used

3.1 Particulars of vessel

Name: Celtic Voyager

Nationality: Irish

Owner: Marine Institute

Overall length: 31m

Maximum draught: 3.8m

Net tonnage:

Propulsion: Wartsila UD25M5 (626 kW) ZF Marine Gearbox + Berg propeller

Van der Giessen Wing Nozzle

Cruising speed: 10kn

Call sign:

Method and capability of communication -- radio, satphone, gsm

Name of master: Denis rowan

Number of crew: 8

Number of scientists on board: 6

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
Catch weights of fish	Trawling sorting weighing	Trawl, weighing scales
Length/weight measurements of fish	-	Electronic measuring boards
Age determination	Removal of otoliths	-
Sex/maturity determination	Dissection	-
Fecundity determination	Preservation of ovaries in formaldehyde	-

3.4 Indicate whether harmful substances will be used: yes, 4% formaldehyde

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): GOV trawl

5. Geographical areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude): Irish Sea: 3°-6°W and 52°-55°N

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.

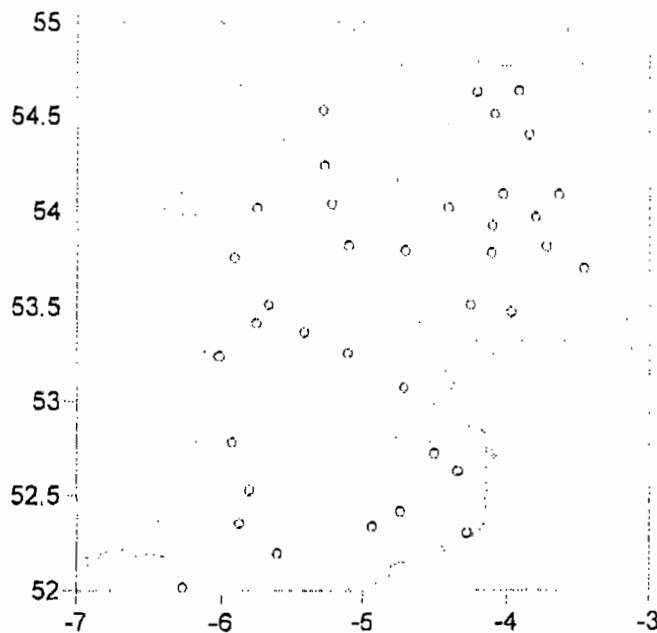


Figure 1. Approximate station positions

6. Dates

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

24th February – 5th March 2006

6.2 Indicate if multiple entry is expected:

yes, we will be moving between Irish and UK waters

7. Port calls

7.1 Dates and names of intended ports of calls in UNITED KINGDOM: none

7.2 Any special logistical at ports of call:

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

8. Participation

8.1 Extent to which UNITED KINGDOM will be enable to participate to be represented in research project:

The project is taking place in collaboration with CEFAS (England) and DARDNI (Northern Ireland)

8.2 Proposed dates and ports for embarkation / disembarkation:

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:

Summer 2006

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

Contact through chief scientist

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

Reports, papers

9.4 Proposed means of making research results internationally available:

Reports, papers

10. Scientific Equipment

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

INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION	Water column including sediment sampling of the Seabed	Fisheries research within fishing limits	Research concerning the natural resources of the continental shelf or its physical characteristics	DISTANCE FROM COAST		
				Within 12nms	Between 12-200nms	(Continental shelf work only) Beyond 200nm but within the continental margin
Trawling	Yes	Yes	Yes	Yes	Yes	No

(On behalf of the Principle Scientist)

Dated -----

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