

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

Date: 25th of April, 2007

1. General information

1.1 Cruise name and/or number: RV Celtic Explorer

1.2 Sponsoring institution: European Community

Name: Marine Institute

Address: Rinville- Oranmore
Galway
Ireland

Name of Chief Executive: Dr. Peter Heffernan

1.3 Scientist in charge of the project:

Name: Dr. Leonie Dransfeld

Address: Marine Fisheries Science Services
Marine Institute
Rinville- Oranmore
Galway
Ireland

Telephone: 00 353 91 387200

Telefax: 00 353 91 387201

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

Name(s): Kevin Peach

Address: FRS Marine Laboratory
PO Box 101
375 Victoria Road
Aberdeen
AB11 9DB

1.5 Submitting officer:

Name and address: Ms. Bernadette Ni Chonghaile
Marine Institute
Rinville- Oranmore
Galway

Country: Ireland

Telephone: 00 353 91 387200

Telefax: 00 353 91 387201

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

2.1 Nature of objectives of the project:

The Marine institute is carrying out a deepwater fisheries survey on the north eastern Atlantic shelf edge, west of Ireland. It is planned to link this survey to the existing deepwater survey that is carried out by FRS in Scotland every year. For this purpose an intercalibration is needed that requires the two vessels to carry out fishing tows in the same area. The FRV *Scotia* has been fishing in the area 9°W-9°5'W, 56°3'N-57°N and it is proposed to use this area for comparative fishing tows between the two vessels. In order to access the area the *RV Celtic Explorer* needs the permission to enter UK waters.

2.2 Relevant previous or future research cruises: Ireland carried out a deepwater survey program in the area between 1992 and 1998, and again in 2006. The deepwater survey program for FRS has been running since 1998.

2.3 Previously published research data relating to the project:

1. A life history approach to the assessment and management of deepwater fisheries in the Northeast Atlantic. Author: Clarke, MW; Kelly, CJ; Connolly, PL; Molloy, JP
Symposium on deep-sea fisheries: NAFO/ICES/CSIRO Symposium 12-14 September 2001. pp. 401-411. [J. Northwest Atl. Fish. Sci.]. Vol. 31.
2. Age estimation of the exploited deepwater shark *Centrophorus squamosus* from the continental slopes of the Rockall Trough and Porcupine Bank. (2002) Author Clarke, MW; Connolly, PL; Bracken, JJ. Journal of Fish Biology [J. Fish Biol.]. Vol. 60, no. 3, pp. 501-514.
3. Biology of exploited deep-water sharks west of Ireland and Scotland. Author: Clarke, MW; Connolly, PL; Bracken, JJ, Sci. Counc. Res. Doc. NAFO. no. 01/108, 18 pp. 2001.
4. The deep water fisheries of the Rockall Trough; some insights gleaned from Irish survey data. Kelly, CJ; Connolly, PL; Clarke, MW. ICES, Copenhagen (Denmark). 20 pp. 1998.

3. Methods and means to be used

3.1 Particulars of vessel

Name: *RV Celtic Explorer*

Nationality: Irish

Owner: Marine Institute

Overall length: 65.5m

Maximum draught: 5.7m

Net tonnage: 2435t

Propulsion: Diesel electric propulsion plant 2 inverter controlled variable speed reversing dc propulsion motor in tandem with max total output of 3mw running 16 pitch propeller. Propeller diameter =3500mm, pull at 4knots- ca 30tons

Cruising speed: 14 knots

Call sign: EIGB

Method and capability of communication –

Standard GMDS equipment weather fax NAV tex and mini/m

Phone number: GSM fax= 0876519288

Bridge phone 0872044837

Name of master: P. Baugh

Number of crew: 14

Number of scientists on board: 17

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
Fish Samples	Bottom trawling	Jackson deepwater trawl
Hydrography	Vertical CTD profiles	Seabird CTD sensor
Bottom sediment	Grab samples	Shipek Sediment Grab

3.4 Indicate whether harmful substances will be used: None

3.5 Indicate whether drilling will be carried out: None

3.6 Indicate whether explosives will be used: None

4. Installations and equipment

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

N/A

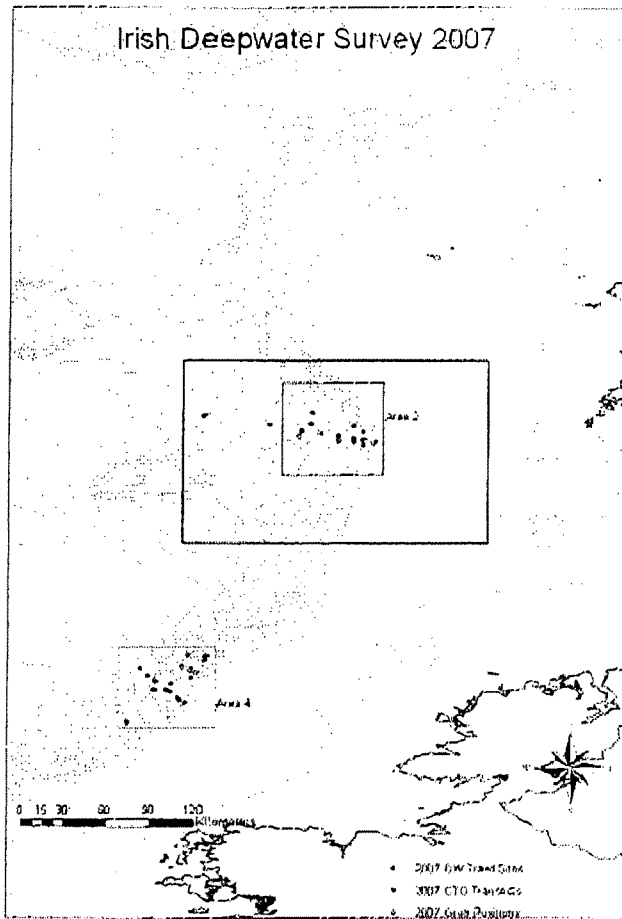
5. Geographical areas

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

9°W-10°W, 56°3'N-57°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.

The red box indicates the area that is located in British waters. It is planned to carry out 9-12 fishing tows in this area along the tracks that were previously fished. Final tow positions are subject to bottom topography.



6. Dates

6.1 Expected dates of first entry into final departure from research area of the research vessel: for three days during the period 7th-20th September 2007, it is envisaged that the entry date will be around the 15th of September, subject to survey progress.

6.2 Indicate if multiple entry is expected:

No

7. Port calls

Dates and names of intended ports of calls in UNITED KINGDOM:

None

7.2 Any special logistical at ports of call:

N/A

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

N/A

8. Participation

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

This is a collaborative project between FRS, Scotland, and the Marine Institute, Ireland.

8.2 Proposed dates and ports for embarkation / disembarkation: NA

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:

The cruise report will be made available within 6 months. The data of the comparative fishing tows will be made available to the collaborating scientists in FRS. Final data will be published through ICES working group reports and scientific journals.

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

Please contact the Scientist in charge of project

9.3 Proposed means to provide UNITED KINGDOM with assessment of data, samples and research results or provide assistance in their assessment or interpretation: The scientists participating in this international program will collaborate in ICES workshops and working groups

9.4 Proposed means of making research results internationally available: ICES working group reports, scientific journals

10. Scientific Equipment

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

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	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
Fish Trawling		✓	✓		✓	
Hydrography	✓		✓			
Bottom sediment sampling	✓		✓		✓	

(On behalf of the Principle Scientist)

Dated -----