

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

Date: 07/03/07

1. General information

1.1 Cruise name and/or number: CV0733

1.2 Sponsoring institution:

Name: FRS Marine Laboratory

Address: PO Box 101,
Victoria Road,
Aberdeen,
AB11 9DB

Name of Chief Executive:

1.3 Scientist in charge of the project:

Name: Mr Iain Gibb

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

Telephone: +44 01224 876544

Telefax: +44 01224 295511

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

Name(s): Mr Iain Gibb

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

1.5 Submitting officer: Bernadette Ni Chonghaile

Name and address:

Marine Institute
Rinville
Oranmore
Co. 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:

To electronically and T-bar tag cod within project MF0760. Fish will be tagged with Data Storage Tags (DST) to record temperature, depth, date and time and thus will enable us to collect data on individual fish movements and environmental exposure in the North Sea. The project is intended to provide a fundamental understanding of the interaction between fish growth, reproductive investment and movements. For example, knowledge of an individual's growth history, together with information on the physical environment that it experienced, could help explain the long-term variation in distribution evident from large-scale surveys of fish stocks.

2.2 Relevant previous or future research cruises:

Cruises on FRV Clupea and FRV Scotia

0302c

0402c

0204s

0304c

1504c

1605s

1706s

2.3 Previously published research data relating to the project:

Marine Biology (2006) 148: 643-654

DOI 10.1007/s00227-005-0110-6

Residency and depth movements of a coastal group of Atlantic cod. (Neat et al)

3. Methods and means to be used**3.1 Particulars of vessel**

Name: Celtic Voyager
Nationality: Irish
Owner: Marine Institute
Overall length: 31.5
Maximum draught: 4
Net tonnage: 340
Propulsion: Diesel 626 kw
Cruising speed: 9.5 Knots
Call sign: EI QN
Method and capability of communication –

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
Fish samples	Trawling	Demersal Bottom Trawl
Water temperature and salinity	CTD	CTD

For live fish capture we will use the BT 186 (demersal bottom trawl) which has been modified to include a PVC liner in the cod-end, retaining 1 cubic metre of seawater in a still water environment. The trawl also incorporates a 70mm square mesh panel to reduce the capture of small fish. Tow duration will be limited to 60 minutes, and the cod-end manouvered onboard via the A-frame and crane.

A CTD will be deployed at each station, in order to collect information on water temperature and salinity. A minilogger will be attached to the trawl headline, recording temperature and depth every 10 seconds.

3.4 Indicate whether harmful substances will be used:

No

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):

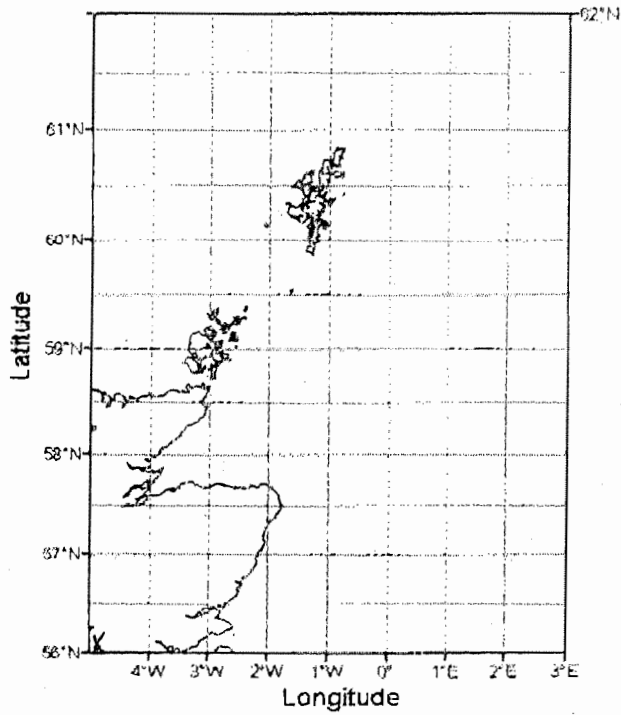
None

5. Geographical areas

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

56.00°N to 62.00° N , 05.00°W to 03.00° East

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:

4/4/07 – 18/4/07

6.2 Indicate if multiple entry is expected: Yes

7. Port calls

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

Embarking on 4/4/07 and Disembarking on 18/4/07 in Aberdeen, Scotland.

7.2 Any special logistical at ports of call: N/A

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 research is a UK led research project so there is full participation.

8.2 Proposed dates and ports for embarkation / disembarkation:

Aberdeen on the 4/4/07 for embarkation and Aberdeen on the 18/4/07 to disembark.

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:

Cruise report will be submitted to ICES after the cruise.

Results will be published at the end of project MF0760 by FRS, Aberdeen.

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

As above

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

As 9.1 above – see section 8.1 also.

9.4 Proposed means of making research results internationally available:

Cruise report will be submitted to ICES after the cruise.

Results will be published at the end of project MF0760.

10. Scientific Equipment

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

INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION Eg:	Water column including sediment sampling of the Seabed	Fishes 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	
ECHO SOUNDING		Yes		Yes	Yes	
WATER SAMPLING CTD		Yes		Yes	Yes	
DST Tagging of Fish		Yes		Yes	Yes	
WATER SAMPLING		No		No	No	
PROFILING INSTRUMENTS		Yes		Yes	Yes	
ABOVE WATER OPTICS AND PHOTOGRAPHY		No		No	No	

 (On behalf of the Principle Scientist)

Dated -----