

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

Date: 19/10/2004

1. General information

1.1 Cruise name and/or number:

1.2 Sponsoring institution: Marine Institute

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: Dr. Jonathan White

Address: Galway Technology Park
Parkmore Business Park West
Galway
Ireland

Telephone: 00-353-(0)91-730400

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

Name(s): Dr. Matt Service

Address: DARDNI
Belfast
N. Ireland

Dr. Dave Long
British Geological Survey
Edinburgh

1.5 Submitting officer:

Name and address: Carol Maloney
Galway Technology Park
Parkmore
Galway

Country: Ireland

Telephone: 00 353 91 730400

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

2.1 Nature of objectives of the project:

INTERREG IIIB funded European project "MESH" Mapping European Seabed Habitats.
Regional comparison component of the project:

- Habitat mapping using remote sampling and ground truthing
- Investigation of effectiveness of different techniques
- Comparison of seabed mapping techniques and technologies and different organizational approaches to sampling and analysis.

2.2 Relevant previous or future research cruises:

DARDNI research survey in same areas (June, 2004)

BGS research survey in same areas (August 12 – Sept 14th, 2005)

2.3 Previously published research data relating to the project:

Project webpage: <http://www.jncc.gov.uk/marine/mesh/default.htm>

Publicity papers to date

3. Methods and means to be used

3.1 Particulars of vessel

Name: Celtic Voyager

Nationality: Irish

Owner: Marine Institute

Overall length: 31.4m

Maximum draught: 3.8m

Net tonnage: 340 tonnes

Propulsion: Wartsila UD25m5 (626kw)

Cruising speed: 9.5 knots

Call sign: EIQN

Method and capability of communication –

Name of master: Captain Philip Baugh/ Ciaran Flanagan

Number of crew: 8

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
Echosounder	According to LINZ	Multibeam echosounder
Echosounder	According to LINZ	Single beam echosounder
Magnetic	According to LINZ	Magnetometer

Gravity	According to LINZ	Gravimeter
Sediment Grab samples – ground truthing	According to LINZ	Grab samples
Video		Video camera drops/ trawls
Video/ sample		ROV survey

3.4 Indicate whether harmful substances will be used:

Non

3.5 Indicate whether drilling will be carried out:

Non

3.6 Indicate whether explosives will be used

Non

4. Installations and equipment

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

Non

5. Geographical areas

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

Bedform_type	Area	Eastern_limit	Western_limit	Southern_limit	Northern_limit
1 Rock Platform	Stanton Bank 1	7°52'W	7°55'W	56°07'N	56°08'N
2 Rock Platform	Stanton Bank 2	7°55'W	7°58'W	56°14'N	56°16'N
3 Rock pinnacles	Laconia Bank and Shamrock pinnacle	6°19'W	6°26'W	55°20'N	55°24'N
4 Coral reefs	Stanton Bank 3	8°01'W	8°12'W	56°02'N	56°06'N
5 Coral reefs	Stanton Bank 4	8°06'W	8°12'W	56°17'N	56°21'N
6 Iceberg plough marks	Shelf break	9°03'W	9°07'W	56°20'N	56°22'N
7 Sand waves	Outer shelf high	8°53'W	8°57'W	56°06'N	56°10'N
8	North Channel	6°21'W	6°26'W	55°24'N	55°29'N
9	Northwest of Islay	6°56'W	7°02'W	55°55'N	55°58'N
10 Sand bank	Hempton's Turbot Bank	6°52'W	7°04'W	55°25'N	55°28'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.

Attached

6. DatesSeptember 17th – 30th 2005

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

September 17th – 30th 2005

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:

None in the UK

7.2 Any special logistical at ports of call:

Non

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:

Scientists from DARD-NI, Queens University Belfast and the British Geological Survey, Edinburgh are invited to participate. Full complement yet to be determined.

8.2 Proposed dates and ports for embarkation / disembarkation:

September 17th – Dublin

September 30th – Dublin

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:

To all MESH project partners , JNCC, DARD-NI and BGS October 2005.

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

Through Seabed Survey team in the Marine Institute and MESH Project office in JNCC

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

To all MESH project partners , JNCC, DARD-NI and BGS October 2005.

9.4 Proposed means of making research results internationally available:

Through MESH Project office (JNCC), website and partners, and through INTERREG. 2005 to 2007

10. Scientific Equipment

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

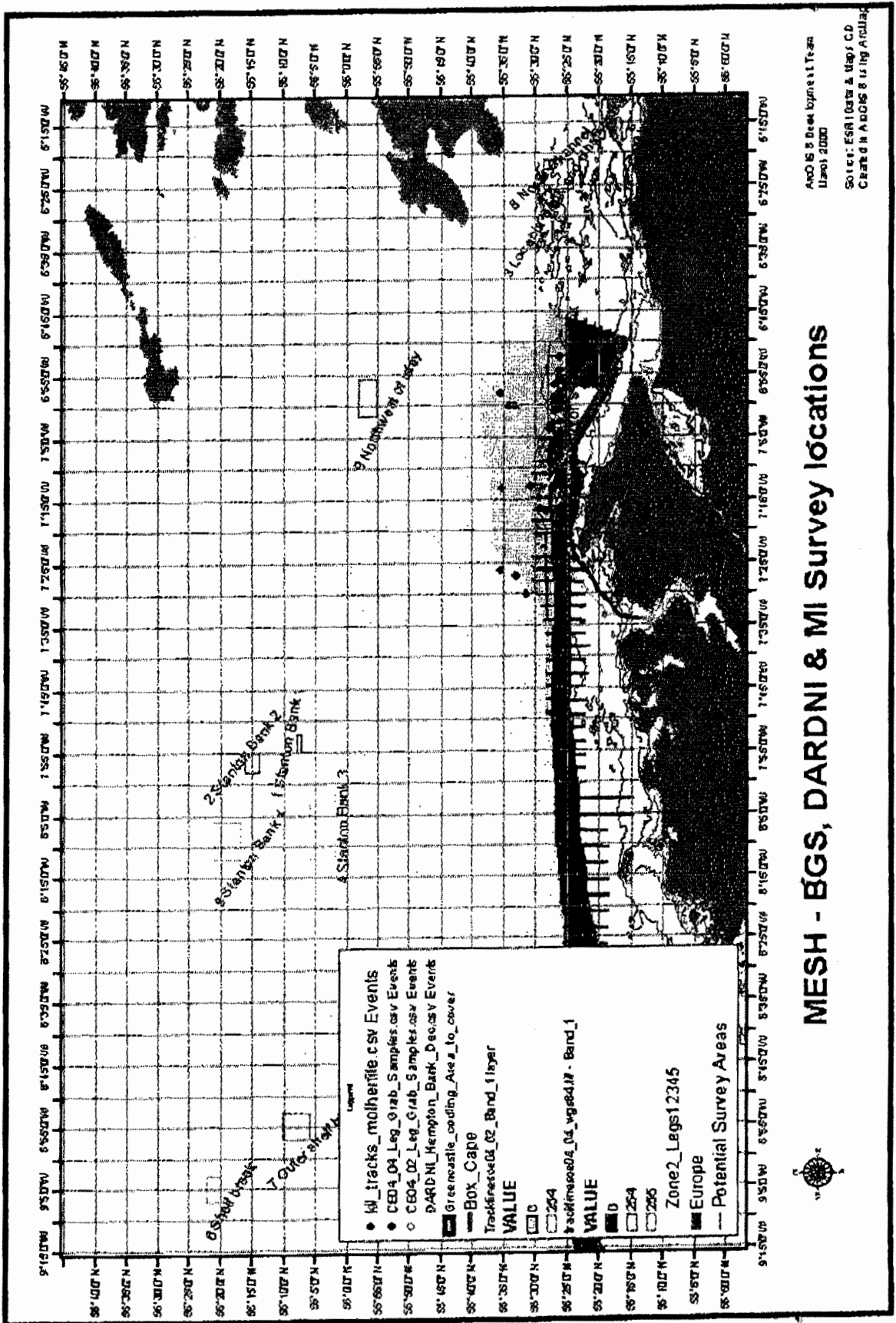
INDICATE YES OR NO

LIST SCIENTIFIC WORK BY FUNCTION:				DISTANCE FROM COAST		
				Within 12nms NO	Between 12-200nms YES	(Continental shelf work only) YES
MAGNETOMETRY	Water column including sediment sampling of the Seabed		Research concerning the natural resources of the continental shelf or its physical characteri- stics			
BATHYMETRY						
SEABED SAMPLING						
Single and Multibeam ECHO SOUNDING						
GRAB SAMPLING						

Dr. Jonathan White

(On behalf of the Principle Scientist)

Dated 19/10/04



MESH - BGS, DARDNI & MI Survey locations

