

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

Date: 15/10/2012

1. General information

1.1 Cruise name and/or number:

1.2 Sponsoring institution:

Name: Trinity College Dublin
Address: College Green
Dublin 2
Ireland

Name of Chief Executive:

1.3 Scientist in charge of the project:

Name: Benjamin Thébaudeau
Address: Department of Geology
Museum Building
Trinity College Dublin
Dublin 2
Ireland

Telephone: +353 (0) 1896 1363

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

Name(s): Rory Quinn
Address: School of Environmental Sciences
University of Ulster
Coleraine
Co. Derry
BT52 1SA
Northern Ireland

1.5 Submitting officer:

Name and address: Benjamin Thébaudeau
Department of Geology
Museum Building
Trinity College Dublin
Dublin 2

Country: Ireland

Telephone: +353 (0) 1896 1363

Telefax: +353 (0) 1671 1199

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

2.1 Nature of objectives of the project:

Vibrocoring survey of the superficial sediments in three areas of the close coastal shelf of Northern Ireland. The first area is Church Bay in Rathlin Island, Co. Antrim, with coring targets in the close vicinity of an SAC (see accompanying maps). The other two areas are Runkerry bay, Co. Antrim and just north of the Bann estuary and west of Portstewart, Co. Londonderry/Derry.

2.2 Relevant previous or future research cruises:

Previous cruise from University of Ulster in Summer 2012 of the coast of Belfast.

2.3 Previously published research data relating to the project:

Kelley et al., 2006

3. Methods and means to be used

3.1 Particulars of vessel

Name: I.L.V. Granuaile
Nationality: Irish
Owner: Commissioners of Irish Lights

Overall length: 79.69m

Maximum draught: 4.4m

Net tonnage: 787T

Propulsion: 2*1,100 kW INDAR variable speed AC motors driving 2*Schottel rudder propellers type SRP 1010 ZSFP

Cruising speed: 11kn

Call sign: EIPT

Method and capability of communication – GMDSS A class, E-mail, internet and satellite communications.

Name of master: Rory Mullins

Number of crew: 16

Number of scientists on board: 2

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
Sediment cores	Vibrocoring	Geo-corer 6000

3.4 Indicate whether harmful substances will be used: No

3.5 Indicate whether drilling will be carried out: No drilling but the corer will bore maximum of 6m of sediment core.

3.6 Indicate whether explosives will be used: No

4. Installations and equipment

All sediment cores will be collected during the week starting the 26/11/2012 with the Geo-corer 6000 and no installation will be left in situ.

5. Geographical areas

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

The first area is Church Bay in Rathlin Island, Co. Antrim, with coring targets in the close vicinity of an SAC (see accompanying maps). The other two areas are Runkerry bay, Co. Antrim and just north of the Bann estuary and west of Portstewart, Co. Londonderry/Derry. See accompanying table for location of coring targets.

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: 26/11/2012 to 30/11/2012.

6.2 Indicate if multiple entry is expected: No

7. Port calls

7.1 Dates and names of intended ports of calls in UNITED KINGDOM:
Embarkation: 26/11/2012 at Belfast, Co. Antrim,
Disembarkation: 30/11/2012 at Belfast, Co. Antrim.

7.2 Any special logistical at ports of call: No

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:

Research partership with University of Ulster in Coleraine, Northern Ireland.

8.2 Proposed dates and ports for embarkation / disembarkation:

Embarkation: 26/11/2012 at Belfast Co. Antrim,
Disembarkation: 30/11/2012 at Belfast, Co. Antrim.

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: 01/02/2013

9.2 Proposed means for access by UNITED KINGDOM to data and samples: Report sent by email to Crown Estate and partners in University of Ulster.

9.3 Proposed means to provide UNITED KINGDOM with assessment of data, samples and research results or provide assistance in their assessment or interpretation: Publication of research article in peer reviewed scientific journal.

9.4 Proposed means of making research results internationally available: Publication of research article in peer reviewed scientific journal.

10. Scientific Equipment

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

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				DISTANCE FROM COAST		
				Within 1 2 n m s	Between 12- 200 nms	(Continental shelf work only)
SEABED SAMPLING	Yes			10 targets		
ABOVE WATER OPTICS AND PHOTOGRAPHY	Yes					



(On behalf of the Principle Scientist)

Dated – 15/10/2012