

Application for Consent to conduct
Marine Scientific Research

Date: 22/11/2019

1. General Information

1.1 Cruise name and/or number:
INFOMAR CE20007

1.2 Sponsoring Institution(s):	
Name:	Marine Institute
Address:	Rinville, Oranmore, Co Galway, Ireland
Name of Director:	Dr Paul Connolly

1.3 Scientist in charge of the Project:	
Name:	Thomas Furey
Country:	Ireland
Affiliation:	Marine Institute
Address:	Rinville, Oranmore, Co Galway, Ireland
Telephone:	+353 9138 7200
Fax:	+353 9138 7201
Email:	Thomas.furey@marine.ie
Website (for CV and photo):	http://www.marine.ie/Home/

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Koen Verbruggen
Affiliation:	Geological Survey Ireland
Address:	Beggars Bush, Haddington Road, Dublin, D04 K7X4, Ireland
Telephone:	+353 1678 2000
Fax:	+353 1668 1782
Email:	Koen.verbruggen@gsi.ie
Website (for CV and photo):	http://www.gsi.ie/

2. Description of Project

2.1 Nature and objectives of the project:
<p>The INtegrated Mapping FOr the Sustainable Development of Ireland's MArine Resource (INFOMAR) programme is a joint venture between Geological Survey Ireland and the Marine Institute. The programme is a successor to the Irish National Seabed Survey (INSS) and concentrates on creating a range of integrated mapping products of the physical, chemical and biological features of the seabed in the near-shore area.</p> <p>The programme is funded by the Irish Government through the Department of Communications, Climate Action and Environment (DCCA). INFOMAR Phase 1, 2006 to 2015 focused on mapping 26 priority bays and 3 priority areas around Ireland and creating a range of integrated mapping products of the physical, chemical and biological features of the seabed in those areas. INFOMAR Phase 2, 2016 to 2026 intends to map the remainder of Ireland's entire seabed.</p> <p>A range of diverse navigation, environmental, cultural and international legislative obligations must also be addressed. The INFOMAR Programme is intended to address these outstanding issues while also delivering an enhanced data management and delivery service for data</p>

gathered under both the INSS and INFOMAR. This data delivery strategy is intended to promote the creation of value added products.

INFOMAR is primarily a multibeam sonar survey. This acoustic technique provides detailed bathymetry (water depth) data, morphology and hardness and roughness information on the nature of the seabed. A towed magnetometer evaluates the nature and structure of the deeper geology and any manmade ferrous material on the seabed, such as shipwrecks.

Other survey techniques are also being used to acquire additional datasets including:

- single beam echo sounder
- sub-bottom profiler (shallow seismic)
- water column measures of salinity, conductivity, temperature and speed of sound profiles
- seabed ground-truthing using grabs

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

2.3 Relevant previous or future research projects:

The Irish National Seabed Survey (INSS) ran from 1999 to 2005. It mapped 432,000 km² of Irelands Exclusive Economic Zone (EEZ). The INSS mapped the Irish EEZ deep water areas in to approximately the 200m contour and delivered a national asset that has provided Ireland with a data set to underpin present and future economic, environmental, infrastructural, social and policy issues. In addition significant capacity building has taken place both in terms of Irish marine surveying infrastructure and the development of personnel skilled in the design, planning, implementation and management of a large scale integrated marine resource evaluation programme.

2.4 Previous publications relating to the project:

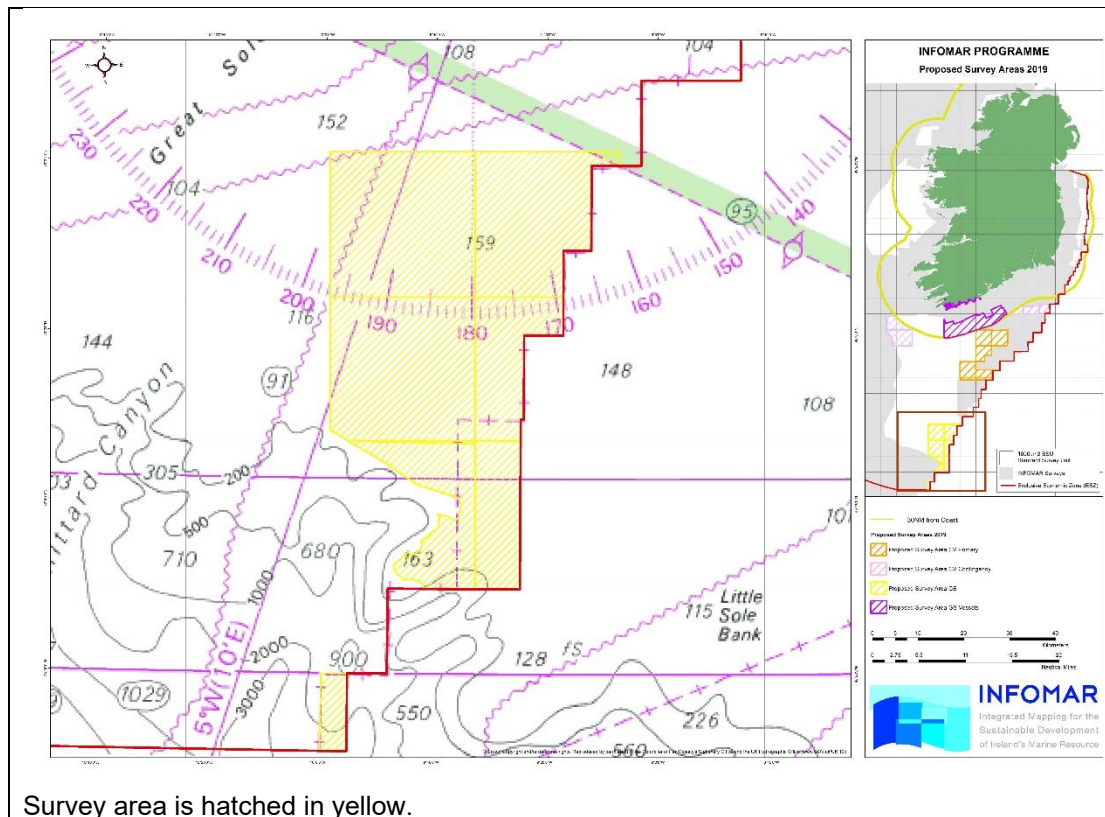
<https://www.infomar.ie/professional>

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.

Latitude	Longitude		
48 19.952	-9	59.662	
48 19.961	-9	54.977	
48 10.803	-9	54.935	
48 10.794	-9	59.758	
49 21.481	-9	59.203	
49 21.785	-9	6.836	
49 20.163	-9	6.998	
49 19.941	-9	11.876	
49 09.890	-9	11.753	
49 09.825	-9	16.697	
48 59.936	-9	16.724	
48 59.807	-9	23.787	
48 29.919	-9	24.285	
48 29.945	-9	41.607	
48 48.522	-9	58.472	

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.



4. Methods and means to be used

4.1 Particulars of vessel:

Name:	Celtic Explorer
Type/Class:	Multipurpose Research Vessel D100 A1 ICE CLASS ID + UMS +SCM DP (CM)
Nationality (Flag State):	Irish
Identification Number (IMO/Lloyds No.):	IMO Number: 9244439
Owner:	Marine Institute
Operator:	P&O Maritime Services
Overall length (meters):	65.5
Maximum draught:	5.7m
Displacement/Gross Tonnage:	2425T
Propulsion:	2 x 1530 KW, 1000Rpm, 1 x 1020 KW, 1000 Rpm
Cruising & maximum speed:	10 & 16 knots
Call sign:	EI GB
INMARSAT number and method and capability of communication (including emergency frequencies):	00353 91 423397 / 00353 91 423433 00870 763066743 00 353 87 9678520 / 00 353 86 1735500
Name of Master:	Antony Hobin/Denis Rowan
Number of Crew:	13-15
Number of Scientists on board:	18-20 max

4.2 Particulars of Aircraft:

Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	

Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication (including emergency frequencies):	
Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV):	
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication (including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:

4.5 Particulars of methods, full description of scientific instruments to be used(for fishing gear specify type and dimension) and location			
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Magnetic Field	Towed fish, 1.5 metres in length, towed 200 metres behind vessel at less than 5 metres beneath sea surface	SeaSpy magnetometer	No
Bathymetry	Dropkeel mounted Hull mounted	Kongsberg EM2040 Kongsberg EM302	No
Sub bottom Profiler	Hull mounted	iXBlue ECHOES 3500	No

4.6 Indicate nature and quantity of substances to be released into the marine environment:
NA

4.7 Indicate whether drilling will be carried out. If yes, please specify:
NA

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name,

Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of
Detonation, and position in latitude and longitude:

NA

5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and
Anticipated timeframe for recover, as far as possible exact locations and depth, and
Measurements):

NA

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the
research vessel and/or other platforms:

21/04/2020 to 17/05/2020

6.2 Indicate if multiple entries are expected:

The vessel will cross into UK waters periodically during line turns during the above dates.
The line turns should not take us more than 500 metres inside the UK EEZ.

7. Port Calls

7.1 Dates and Names of intended ports of call:

NA

7.2 Any special logistical requirements at ports of call:

No.

7.3 Name/Address/Telephone of shipping agent (if available):

P&O Maritime Ireland
Parkmore Business Park West
Galway, Ireland
Telephone: +353 91 77 3980
Facsimile: +353 91 77 3982

Email: manager.mea@pomaritime.com

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research
Project:

NA

8.2 Proposed dates and ports for embarkation/disembarkation:

Embarkation Galway or Cork, Ireland on 21/04/2020 and disembarkation Galway or Cork,
Ireland on 17/05/2020.

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should
include

The expected dates of submission of the data and research results:

December 2020

9.2 Anticipated dates of submission to the coastal State of the final report:

March 2021

9.3 Proposed means for access by coastal State to data (including format) and samples:
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All of our multibeam data will be sent to the UKHO for charting. Survey data is then put online at http://www.infomar.ie/ and made freely available to the public.

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:
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We do not anticipate acquiring data in UK waters but we are willing to share our data online.

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples

And research results:

The Marine Institute can be contacted at any time using the contact details in section 1.3.

9.6 Proposed means of making results internationally available:

Via the INFOMAR website and appropriate conferences and workshops.
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10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

NA

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

NA

Signature:

Contact information of the focal point:

Name: Mr Thomas Furey

Country: Ireland

Affiliation: Marine Institute

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Email: Thomas.furey@marine.ie