Application for Consent to conduct Marine Scientific Research

Date: 08/06/2020

1. General Information

1.1 Cruise name and/or number: CV20021	
INTERREG SeaMonitor:	

Deployment and retrieval of acoustic receivers and Multibeam survey in the N. Channel (Main array).

1.2 Sponsoring Institution(s):	
Name:	Marine Institute
Address:	Rinville, Oranmore, Co. Galway H91 R673
Name of Director:	Dr Ciaran Kelly

1.3 Scientist in charge of the Project:	
Name:	Dr Niall Ó Maoiléidigh
Country:	Ireland
Affiliation:	Marine Institute
Address:	Marine Institute Newport, Co. Mayo, F28 PF65
Telephone:	00353 87 6296393
Fax:	
Email:	Niall.omaoileidigh@marine.ie
Website (for CV and photo):	

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:		
Name:	Ross McGill	
Affiliation:	Loughs Agency	
Address:	22 Victoria Rd, Londonderry BT47 2AB	
Telephone:	028 7134 2100	
Fax:		
Email:	Ross.McGill@loughs-agency.org	
Website (for CV and photo):		

2. Description of Project

2.1 Nature and objectives of the project:

The Marine Institute was recently successful in securing over €1 million in funding in an INTERREG VA Ireland, N. Ireland and Scotland call resulting the formation of the SeaMonitor project.

The INTERREG VA SeaMonitor project is a novel and comprehensive project focussing on a wide range of issues across the Programme Area (Scotland, Ireland and N. Ireland). It will directly deliver the INTERREG V objective of developing cross-border capacity for the monitoring and management of marine protected areas and species. It will result in a corresponding increase in cross-border monitoring and management capacity. This will facilitate the development and growth of a regional 'blue economy' based on its maritime

resources and the alignment of regional activities with the EU's Atlantic Strategy through the potential of e.g. developing and strengthening the growth of marine tourism, providing management plans and enabling sustainable development to occur in often sensitive environments.

The project will deliver 5 models, 3 management plans/groups and extend the INTERREG VA COMPASS network of buoys from the east coast of the Island of Ireland to the North establishing a physical connection of acoustic receivers between the Island of Ireland and Scotland thus providing a tangible monitoring network to the INTERREG programme. SeaMonitor has been jointly developed by all the partners and will be jointly implemented with partners working together across a range of activities.

SeaMonitor will establish a network of buoys for regional seas, including telemetry and oceanographic monitoring (e.g. for seals, cetaceans and salmonids).

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:

Led by the Loughs Agency, a cross boarder UK/Ireland body, this s an INTERREG VA EU funded project with 9 partners i.e. Loughs Agency (UK, Ireland), Marine Institute (Ireland), Queens University Belfast (UK), Agri-Food and Biosciences Institute for Northern Ireland (UK), University of Glasgow (UK), University College Cork (Ireland), Galway-Mayo Institute of Technology (Ireland), Ocean Tracking Network (Canada), Dalhousie University (Canada). University of California Davies (USA).

2.3 Relevant previous or future research projects:

INTERREG Compass Project led by the AFBI (UK) is a sister project and INTERREG MARPAMM led by AFBI are associated projects.

2.4 Previous publications relating to the project:

Abecasis, David, Andre Steckenreuter, Jan Reubens, Kim Aarestrup, Josep Alós, Fabio Badalamenti, Lenore Bajona et al. "A review of acoustic telemetry in Europe and the need for a regional aquatic telemetry network." Animal Biotelemetry 6, no. 1 (2018): 12.

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.

Deployment of 5 listening stations at specified locations across the North Channel from Malin Head in Northern Ireland to the Isle of Islay in Scotland (Main array, Figure 1).

Further, a total of 6 acoustic receivers will be removed from the water for data download and maintenance off-site (Figure 1). During standby periods the vessel will complete multiband mapping in the Irish-UK waters where bathymetry gap exits and limited to the main array line (Figure 2).

The locations of the listening stations to be deployed are displayed below (Red numbers and circles in Figure 1):

Desired deployment	Position	Type of device
location		
Station 27	N 55° 28.2244'; W 007°	C-POD
	08.7181'	
Station 40	N 55° 30.9201'; W 007°	SoundTrap
	03.2005'	
Station 55	N 55°34.028'; W 006° 56.8360'	C-POD
Station 76	N 55° 37.2168 ; W 006°	SoundTrap + C-POD
	46.5892'	
Station 100	N 55° 39.4722; W 006°	SoundTrap
	34.5879'	

The locations of the listening stations to be retrieved are displayed below (Blue numbers and circles in Figure 1):

Desired deployment location	Position	Notes
Station 55	N 55°34.028'; W 006°56.836'	Deployed with C-POD
Station 56	N 55°34.287'; W 006°56.327'	
Station 57	N 55°34.473'; W 006°55.998'	
Station 58	N 55°34.642'; W 006°55.539'	
Station 59	N 55°34.810'; W 006°54.946'	
Station 60	N 55°34.913'; W 006°54.523'	

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.

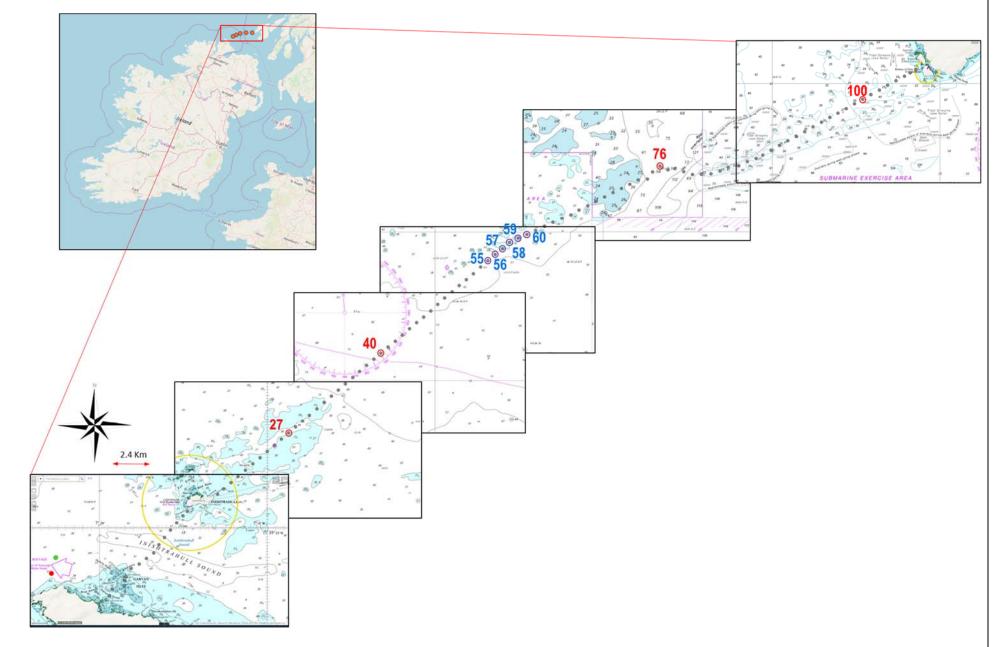


Figure 1: Red numbers and circles represent the location of acoustic receivers to be deployed and Blue numbers and circles represent acoustic receivers to be recovered during the October mission.

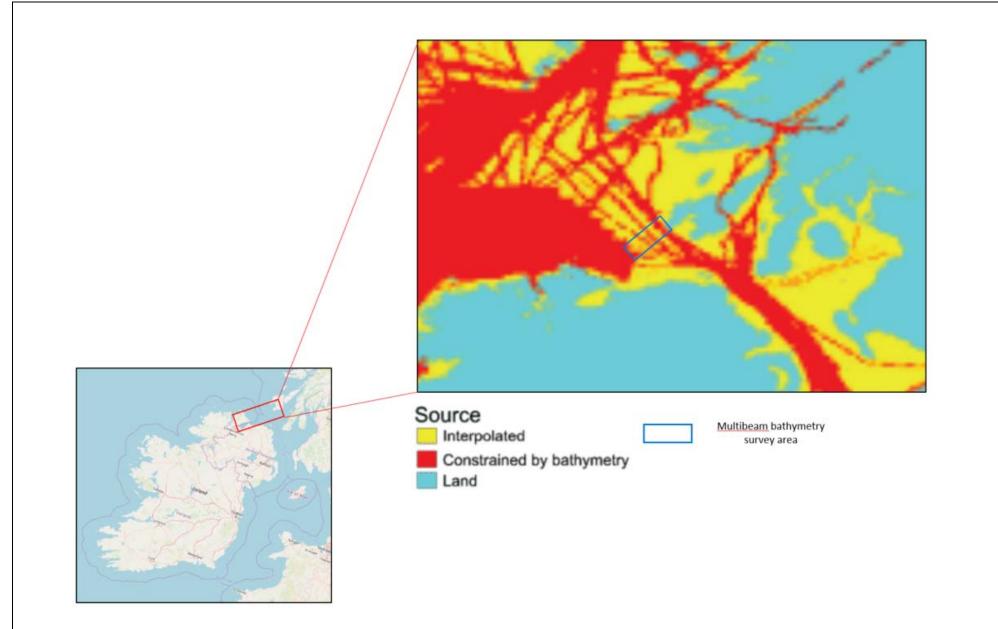


Figure 2: Detail of unmapped areas in line with the line of acoustic receivers.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	R.V. Celtic Voyager
Type/Class:	100 A1 Research Vessel, LMC
Nationality (Flag State):	Irish
Identification Number (IMO/Lloyds No.):	
Owner:	Marine Institute
Operator:	P&O Maritime Services
Overall length (meters):	31.4
Maximum draught:	4m
Displacement/Gross Tonnage:	340
Propulsion:	Wärtsilä UD25M5 (626 kW),
Cruising & maximum speed:	<= 10 knots
Call sign:	EIQN
INMARSAT number and method and capability	GMDSS A class, E-mail. Mini M SAT C and GSM
of communication (including emergency frequencies):	00 353 91 423396 / 00870 763066755 00870-764687325 / 764687326
Name of Master:	Philip Baugh/Colin McBrearty
Number of Crew:	7
Number of Scientists on board:	8 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	Methods to be used:	Instruments to be	To be carried out
Measurements:		used:	within 12nm (yes or
			no):
Recovery, and deployment of acoustic receivers for wildlife monitoring	Acoustic telemetry equipment for fish tracking	Vemco Acoustic receivers (VR2AR).	YES
Seabed Mapping	Multibeam Echosounder	Simrad EM1002	YES

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

The 5 moorings to be deployed during the mission will feature autonomous static recorders for passive and active acoustic monitoring of low to high frequency and ambient noise. Three type of devices are involved: fish tag receiver (Vemco, VR2AR), SoundTrap (Ocean Instruments, NZ) and C-POD click loggers (Cheliona Limited, UK) (Figure 1).



Figure 3: Three different types of acoustic recorders to be deployed.

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

No drilling will be carried out.

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:

No explosives will be used.

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):

All five moorings will be placed on the sea bed allowing for a free navigational channel. If needed the receivers can be recovered at any time by sending a release acoustic signal using a transponder hydrophone stored on board (VR100). All receivers will be deployed at depths < 60 m (Fig.2 & 3).

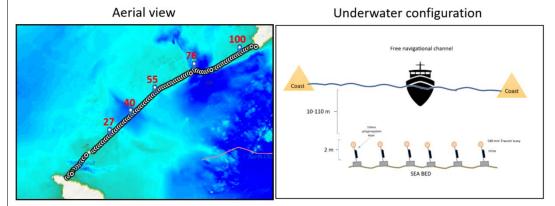


Figure 2: Mooring location and underwater configuration.

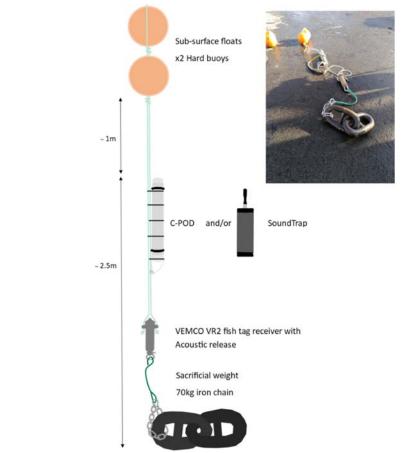


Figure 3: Mooring design and components.

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:
Embarkation: 01/10/2020 Disembarkation: 07/10/2020 No. Of Survey Days: 7
6.2 Indicate if multiple entries are expected:
7. Port Calls
7.1 Dates and Names of intended ports of call:
Northern Ireland -Greencastle harbour -Foyle port -Malin Head Coast Guard. Radio VHF Channels 16,67,23,85 DSC70 -Malin Head MRSC.
Scotland -Glesanda port
7.2 Any special logistical requirements at ports of call:
Scientific crew boarding at Lisahally harbour.
7.3 Name/Address/Telephone of shipping agent (if available):
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:
We are more than willing to accommodate an observer on board, for the duration of the survey.
Regular meetings have been carried out with the Foyle port and maritime authorities to explain and discuss the relevant aspects of the project.
8.2 Proposed dates and ports for embarkation/disembarkation:

Embarkation: 01/10/2020 Disembarkation: 07/10/2020

No. Of Survey Days: 7

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:

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

9.3 Proposed means for access by coastal State to data (including format) and samples:

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:

Marine Institute will guarantee that data will be extracted, analysed and categorised after each recovery so data analyses will be ongoing once monitoring starts. One year of data will be modelled at the end of 2020 and the overall dataset by Dec 2021. Results will be generated at 4/5 monthly periods when equipment is recovered to facilitate collaboration with existing projects and to identify significant trends over the duration of the project. All progress will be updated in quarterly reports and summary results delivered when available. Extensive analysis of data will also be delivered when available for quarterly reports but this will be dependent on deployment and retrieval of equipment.

9.6 Proposed means of making results internationally available:

We will produce 8 peer reviewed publications by December 2024. This will be after the programme finishes but due to the length of time in getting the data analysed and going through the peer review process this is a more realistic target than the end of the programme in March 2022.

10. Other permits Submitted

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

11. List of Supporting Documentation

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

Signature:
Contact information of the focal point:
Name:
Country:
Affiliation:
Address:
Telephone:
Fax:
Email:

Appendix

Table 1: Coordinates of the main Array between Mailin Head (Northern Ireland) and Portnahaven (Isle of Islay, Scotland) across the North Channel.

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