

Apply for a Band 1 marine licence

Project description

Project name

Celtic submerged landscapes expedition '24

Please provide a brief description of the proposed project, including location.

The Celtic Submerged Landscapes Expedition '24 is a multidisciplinary, international survey of the Celtic Sea both in Irish and UK (Welsh) waters that will feed data to several ongoing research projects and will foster collaboration between Irish and British institutions. The multi-layered survey plan aims to investigate the geology of the Celtic Sea and the links between subsurface geological structures to superficial habitats.

We plan to study the relationships between sea floor geomorphology and faults / structural trends, investigating the local impact of Cenozoic basin inversion and exhumation on recent (Pliocene - Quaternary) sedimentation and glaciofluvial incisions. Faulting might have conducted to the formation of methane seeps at different locations, which we plan to investigate at high resolution. Particular attention will be given to the study the stratigraphy and sedimentology of relics of river/tunnel valleys within the Celtic Sea, to better understand their potential as a seafloor hazard.

Finally, benthic habitat distribution will be explored using submarine camera tows, and linked to geomorphology, faulting and sedimentology assessing the impact of faults and palaeo-channel network onto it, to better inform future endeavours of marine spatial planning and Marine Protected Areas (MPAs) designation.

Vertices' coordinates for the target area in Welsh waters where operations are conducted (WGS84 UTM 29N):

ID X Y

0 -6.55 51.50
1 -6.30 51.50
2 -6.13 51.50
3 -6.12 51.22
4 -5.71 51.22
5 -5.71 51.06
6 -6.25 50.94
7 -6.47 50.94
8 -6.91 50.99
9 -7.05 51.00
10 -6.80 51.00
11 -6.80 51.17
12 -6.70 51.17
13 -6.70 51.33
14 -6.55 51.33
15 -6.55 51.50

Does the activity have an estimated project cost for marine works over £1 million? If yes, the activity is no longer eligible for a band 1 application and a band 3 application will be required.

No

Applicant details

To whom the licence will be issued. This must be a legal entity such as an individual, registered company/ charity or public body.

Title	Dr
Full name	Riccardo Arosio
Company or trading name	University College Cork
Company Registration Number (if applicable)	N/A
Name of contact or individual (if different)	as above
Position in company	Senior postdoc fellow
Address (provide registered company address if applicable)	School of BEES, Distillery Fields, North Mall, University College Cork, Ireland
	-
	-
Postcode	T23N73K
Telephone number	+353852618519
Email address	rarosio@ucc.ie

Details of agent, contractor, vehicles and/or vessels used to carry out works

Will the works require the use of vessels?

Yes

Will the works require the use of any vehicles?

No

Proposed project details

Licensable period

Determination of applications will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the requested licence expiry date you may be required to submit a new application. Including a contingency period within your original application does not impact on the licence fee.

Start date (DD/MM/YYYY) 21/09/2024

Requested licence expiry date (DD/MM/YYYY) 07/10/2024

Please detail the location of the proposed project.

This should be either Ordnance Survey National Grid Reference (i.e. SN 12345 67890) or Latitude and Longitude in decimal degrees to 4 decimal places (i.e. Lat 52.1234 Long -4.1234), defining the extent of the project. Please specify which coordinate system has been used and if using GIS co-ordinates, specify which projection has been used.

Vertices' coordinates (decimal degrees) for the target area where operations are conducted (WGS84 UTM 29N):

ID X Y

0 -6.55 51.50
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2 -6.13 51.50
3 -6.12 51.22
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12 -6.70 51.17
13 -6.70 51.33
14 -6.55 51.33
15 -6.55 51.50

Method statement

Are the works within a sensitive area or one of the following activities: boreholes, replacement piles or beach management?

Yes

Band 1 method statement template

You can upload your method statement here or fill in the questions below.

- File: TC24022_Method_statement.pdf - [Download](#)

Please provide a brief summary of the application including location of the works (coordinates - lat/long, decimal degrees). For activities that cover a large area please provide coordinates of the approximate extent of works.

All information provided in the attachment.

Scope of works

Please provide a full description of all proposed works including: Sequence of works (mobilisation, marine works, site remediation (if required)) Estimated timing of works (duration, working hours, day/night, plus contingency) Plant, machinery or vessel required Estimated quantities (removals, deposits, construction materials)

All information provided in the attachment.

Access and working areas

Please provide details of access to the site and working areas. This should include:
Attached map of the access/egress route and working areas (annotated aerial image and/or OS map)
Predicted plant/vehicle movements
Storage areas for plant, equipment and materials (if required)
Risks to navigation

All information provided in the attachment.

Environmental mitigation

Please list appropriate mitigation measures to minimise impacts on the marine environment these may include: Pollution prevention and control procedure (guidance available on the NetRegs website) Spill response kits Minimise plant traffic Designated access and egress routes Storage of materials (fuel, chemicals, construction waste) Biosecurity (guidance available at <http://www.snh.gov.uk/docs/A1294630.pdf>)
Note: To assist you, the following mitigation statements will be used as conditions within the licence. By signing this method statement you will be agreeing to adhere to these restrictions. If you are unable to do this, the application will not qualify as Band 1. All equipment, temporary structures, access tracks, waste and/or debris associated with the works will be removed on completion of the works. Bunding, storage facilities and spill kits will be employed to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment. Plant, vehicles and machinery will not be refuelled on the foreshore. Coatings and treatments will be suitable for use in the marine environment and are used in accordance with best environmental practice. All equipment, materials, machinery and PPE used will be in a clean condition prior to their arrival on site, and upon removal from site, to minimise risk of introducing non-native species into the marine environment. In the event of removal of any sensitive species or habitat designated by NRW under Schedule 7 of the Environment (Wales) Act 2016, no further removals will occur at that location or within 20m of that location.

Please list your bespoke mitigations here:

All information provided in the attachment.

Additional information

Please list any additional information that may help with the application:
Consents/permissions required
List of plans or drawings attached to method statement
Emergency procedures
Contact details

All information provided in the attachment.

Materials of the project

Delivery method of materials to site

If sea delivery, details of vessels to be used with a chart of proposed route and transhipment area is required. If delivery is by vehicle, the details about the proposed access route are required. Please indicate if you are providing details in a separate file.

n/a

Will the works involve removals seaward of MHWS?

Yes

Description of materials to be removed seaward of MHWS (Please tick all that apply)

Silt

Sand

Description of objects/materials to be removed seaward of MHWS, including quantities to be removed.

Approximately 15 sediment vibrocores of a maximum length of ~6 m. Sediment may vary depending on location. Description of the equipment is given in the Method Statement.

Additional information

Please provide the following:

You must include a suitably scaled extract of an Ordnance Survey Map or Admiralty Chart with location of project complete with north arrow and scale

You must include details of correspondence with MCA, Trinity House and The Crown Estate

You must include any pre application advice/correspondence with NRW

Correspondence with RCAHWW (B1 removals only)

Please upload these below

- File: TrinityHouse pre-engagement.pdf - [Download](#)
- File: RCAHWW pre-engagement.pdf - [Download](#)
- File: MCA pre-engagement.pdf - [Download](#)
- File: NRW pre-application advice.pdf - [Download](#)

Please list below all supporting documents that have been submitted with this application.

A detailed, georeferenced map complete with north arrow and scale of our operations is presented in the Method Statement. At UCC we are not in possession of UK digital Ordnance Survey Maps or Admiralty Charts.

Documents provided:

Trinity House pre-engagement

RCAHWW pre-engagement

MCA pre-engagement

NRW pre-application advice

Statutory powers

Does the applicant have statutory powers to consent any aspect of the project? e.g. coast protection authority, dredging powers, statutory undertakers

No

Public register

Is there any information contained within or provided in support of this application that you consider should NOT be included on the Public Register on the grounds that its disclosure:

	Yes	No
Would be contrary to the interest of National Security?		X
Would prejudice to an unreasonable degree you, or some other person's commercial interest or those of a third party?		X

Application fee

Please provide the method of payment

BACS

Reference number (not BACS remittance no.)
PRCAPPUNICO024

Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and supporting documentation is true.

WARNING: It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information. This could invalidate any licence granted.

Name Riccardo Arosio
Date 17/06/2024
Position in company Senior Postdoctoral Fellow

If you would like a copy of your completed form, please add your preferred email address below:

rariosio@ucc.ie