

ANNEX A

Application for Consent to conduct Marine Scientific Research

Date: 5/8/2016

1. General Information

1.1 Cruise name and/or number:
Catch comparison trial of Scottish designed inclined and vertical separator panel section with twin codends at the Smalls Nephrops fishery

1.2 Sponsoring Institution(s):	
Name:	Bord Iascaigh Mhara
Address:	BIM, Crofton Road, Dun Laoghaire, Ireland.
Name of Director:	Tara McCarthy (CEO)

1.3 Scientist in charge of the Project:	
Name:	Daragh Browne
Country:	Ireland
Affiliation:	Bord Iascaigh Mhara employee (fishing gear technologist)
Address:	BIM Office, New Dock, Galway, Ireland.
Telephone:	+353 87 662 4908
Fax:	+353 91 568 569
Email:	browned@bim.ie
Website (for CV and photo):	www.bim.ie

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	
Affiliation:	
Address:	

Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:

The aim of the trial is to achieve separation of round fish from Nephrops into upper and lower codends respectively.

The trial is designed as a catch comparison experiment using standard quad-rigged Nephrops trawls to compare the retention properties of the test and standard gear.

Test gear

- An increased circumference extension piece (240 meshes around) combining:

- an inclined net grid constructed from 300mm square mesh
- a horizontal separator panel constructed from 80mm diamond mesh
- An upper and lower codend each with 120 mesh circumference. Codend mesh size will be 80mm T90 mesh (turned 90°) in the upper codend and 80mm diamond mesh in the bottom codend.

The 120mm square mesh panel required under Commission Implementing Regulation (EU) 2015/741 will not be present in the test gear during this trial.

(see drawings of test gear at the end of this document)

- Standard gear

Standard (diamond mesh) 80mm codend. With regulation 120mm square mesh panel

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:

Part of BIM's ongoing work to provide gear selectivity options to the fishing industry for compliance with the Landing Obligation

2.3 Relevant previous or future research projects:

This trial is BIM's first large scale with this particular gear.

A small scale trial was carried out on the Aran Nephrops ground in July 2016 to test if the gear functioned correctly – this was not a full sampling trial so no report is planned.

2.4 Previous publications relating to the project:

This gear was designed and tested by the Scottish Fishermens Federation (SFF) Gear Innovation and Technology Advisory Group (GITAG). As far as I am aware a report on trials of this gear is being finalised.

3. Geographical Areas

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

ICES VIIIf and VIIg. The Smalls Nephrops ground.

Our aim is to carry out 4 hauls a day over 5 days fishing. Haul duration will be approximately 4 hours.

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.

Chart showing approximate area of trial attached at end of document.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Stella Nova (DA57)
Type/Class:	Licenced fishing vessel
Nationality (Flag State):	Ireland
Identification Number (IMO No.):	9069918
Owner:	Supreme Fishing Co. Ltd.
Operator:	Niall Connolly
Overall length (meters):	23.5m
Maximum draft:	5m approx.
Displacement/Gross Tonnage:	190GT
Propulsion:	441kW
Cruising & maximum speed:	2-3.5kts towing, 10kts max. speed.
Call sign:	EI8772
INMARSAT number and method and capability of communication (including emergency frequencies):	
Name of Master:	Niall Connolly (to be confirmed)
Number of Crew:	6 crew
Number of Scientists on board:	2 BIM scientists

4.2 Particulars of Aircraft:	
Name:	N/A
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:	N/A
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:

N/A

4.5 Particulars of methods, full description of scientific instruments to be used (for fishing gear specify type and dimension and for geophysical survey the type of equipment, source levels, frequency and duty cycle to be used) and location:

Types of samples and measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Codend catch – Sorting and weighing fish and Nephrops catch. Measuring length of fish and Nephrops subsamples.	Catch comparison trial.	Motion compensated weighing scale, analogue measuring boards and digital Vernier callipers	No

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

None.

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

No.

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.

5. Installations and Equipment

5.1 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):

N/A

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:

18/08/2016 first entry

24/08/2016 final departure

The planned start and end date are dependent on favourable weather among other factors.

6.2 Indicate if multiple entries are expected:

It is possible the chartered fishing vessel will move around the ground to find commercial quantities of Nephrops within ICES VIIIf and VIIg.

7. Port calls

7.1 Dates and Names of intended ports of call:

None.

7.2 Any special logistical requirements at ports of call:

None.

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

None.

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:

BIM Is the Irish state agency with responsibility for fisheries development which includes gear technology research.

8.2 Proposed dates and ports for embarkation/disembarkation:

Embarkation: Dunmore East, Ireland, 18/8/2016

Disembarkation: Dunmore East, Ireland, 24/8/8/2016

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:

A report on the trial will be submitted to the Irish Department of Agriculture Food and the Marine by 31/11/2016.

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

Date of submission of the final report: 31/11/2016

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

Report will be presented to the (Irish) Discard Implementation Group which includes officials from the Department of Agriculture, Food and the Marine and representatives of the fishing Industry Producer Organisations.

The final report will be made available on BIM's website <http://bim.ie/our-publications/fisheries/>.

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

A concise research report including: methodology, materials and analysis/ discussion of results.

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples and research results:
BIM staff are available to discuss results with any interested party

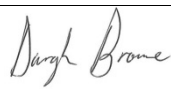
9.6 Proposed means of making results internationally available:
BIM website http://bim.ie/our-publications/fisheries/

10. Other permits submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or pending):
Irish Sea Fisheries Protection Authority derogation. (attached at the end of this document)

11. List of supporting documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:
Map of trial area Sketch and description of trial gear Irish SFPA derogation for trial

Signature: 

Contact information of the focal point:

Name: Daragh Browne

Country: Ireland

Affiliation: Bord Iascaigh Mhara (BIM) employee

Address: BIM Office, New Docks, Galway, Ireland. H91 HD92.

Telephone: +353 87 662 4908

Fax: +353 91 568 569

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Additional information

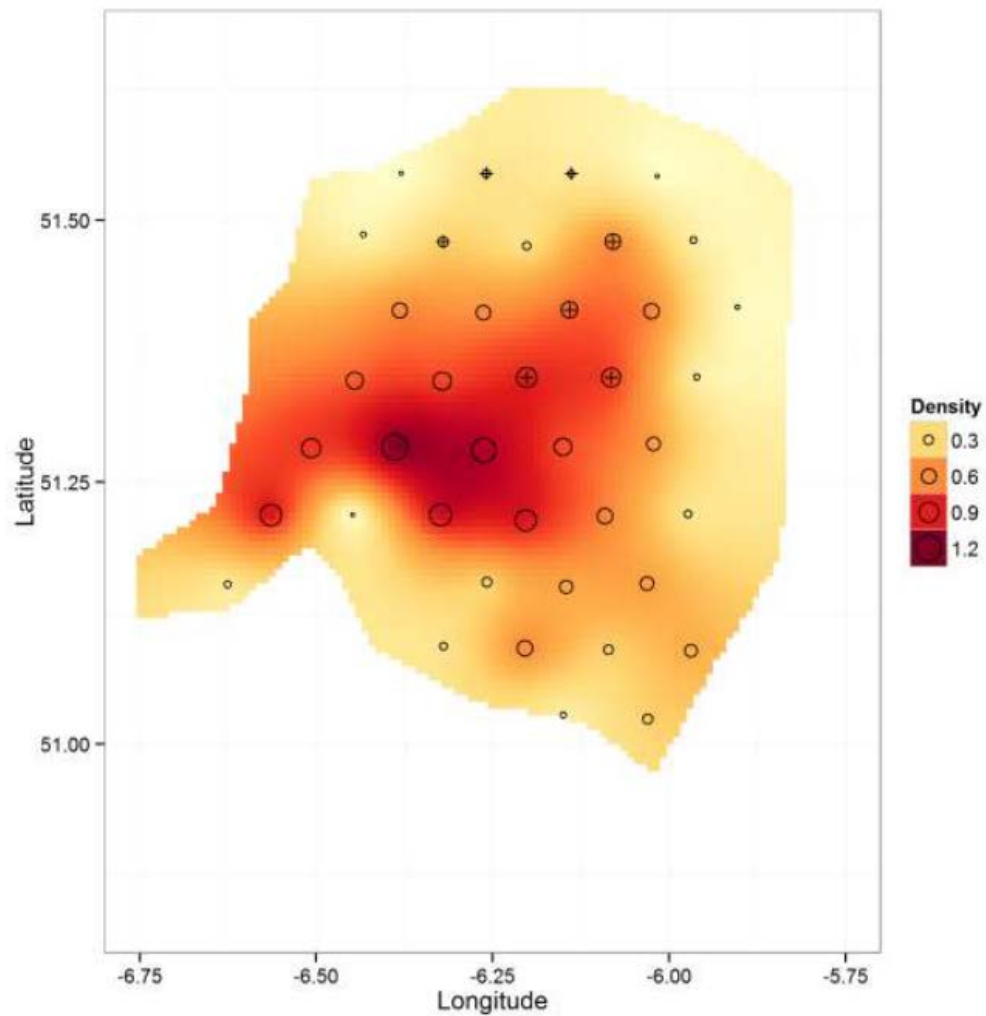


Figure 8: FU22 Smalls grounds: 2015 Contour plot of the krigged adjusted density estimates including the fill-ins for missing stations shown as black cross. RGeostats procedure graphical output.

Figure 1, approximate area of BIM fishing gear trial from UWTV survey of the smalls ground (Marine Institute Ireland)

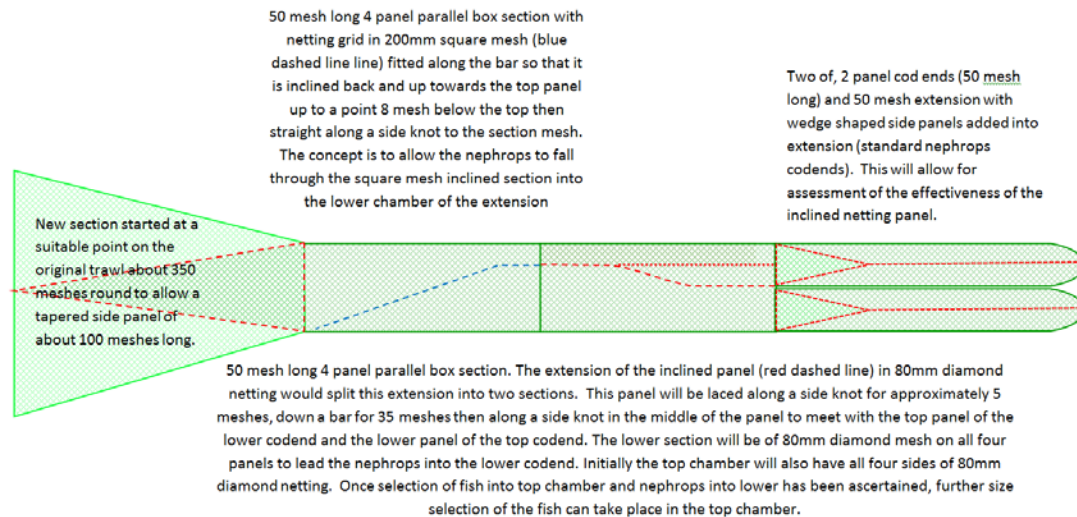


Fig.2, side view sketch and description of the trial gear, courtesy of Mike Montgomerie of SEAFISH.



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28th July 2016
DSR 10/2016

Mr Daragh Browne, BIM

DEROGATION TO CONDUCT FISHING FOR SCIENTIFIC RESEARCH

STELLA NOVA DA-57

Dear Daragh,

Please note that the Sea-Fisheries Protection Authority is pleased to agree to your request for a specific derogation to conduct fishing for scientific research subject to compliance with the terms outlined below;

Vessel Details: STELLA NOVA DA-57

Area coverage: ICES Area VII f & g.

Period: Trial to take place between 18/8/2016 and 1/9/2016 – 5 full fishing days

Purpose of derogation: Separator Trawl trial

Method: Trial 1:

Test Net Fitted with separator panels and twin codends :Extension piece – 240 meshes in circumference, fitted with an inclined 300mm square mesh panel and an 80mm diamond mesh horizontal separator panel

Lower codend – 80mm diamond mesh, 120 meshes in circumference

Upper codend – 80mm T90 mesh, 80 meshes in circumference

Square Mesh Panel - The regulation square mesh panel (120mm fitted between 9 and 12m) will not be present

Standard net Standard *Nephrops* trawl – 80mm diamond mesh codend and 120mm Square mesh Panel fitted between 9 and 12m.

Target Species: *Nephrops Nephrops norvegicus*

Scientific Staff: Daragh Browne, Peter Tyndall, Martin Oliver, Gerard Dougal (at least two on board during trial)

Please be advised that a copy of this document should be retained onboard the fishing vessels while they are engaged in the scientific work.

Finally I would like to wish you and your team every success with the project.


Christopher Nalty
Sea-Fisheries Operations Manager
cc: [Naval Service, SFP-A-SMT, SFP-A-Senior Port Officers]