NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. Name of research ship **BELGICA** Cruise N° **2012/5**

2. Dates of cruise From **20 February** To **24 February 2012**

3. Operating Authority
Belgian Navy under contract for Belgian Ministry of Science Policy
Management Unit of the North Sea Mathematical Model "M.U.M.M.",
3° & 23° Linieregimentsplein, 8400 Oostende
Tel: 32(0)59 70 01 31, Facsimile: 32(0)59 70 49 35
Email : bmmost@mumm.ac.be

4. Owner **Belgian state represented by Minister for Science Policy**

5. Particulars of ship

Name	**Belgica**
Nationality	Belgian
Overall length	51 meters
Maximum draught	4,5 meters
Nett tonnage	232NRT
Propulsion	Diesel
Call Sign	ORGQ
Telephone	INMARSAT 00870 76 218 73 27
Facsimile	INMARSAT 00870 32 052 18 12
Email	belgica@mumm.ac.be

6. Crew
Name of master **Commander (BeN) Pedro DORY**
N° of Crew **15**

7. Scientific Personnel
Name and address of scientist in charge :

Dhr. Hans POLET
ILVO-Dier-Visserij, Technical Research Unit
Ankerstraat 1, 8400 OOSTENDE, Belgium
Tel +32-59-56 98 37; Fax : +32-59-33 06 29
Email : hans.polet@ilvo.vlaanderen.be
Website : www.ilvo.vlaanderen.be

N° of scientists : **15**

(A nominall roll of all personnel other than nationals of the applicant (flag) state is required)

8. Geographical area in which ship will operate (with reference in latitude and longitude)

UK continental shelf (Between 51°N - 55°N)

9. Brief description of purpose of cruise

Study of the selectivity and seafloor impact of towed fishing gear.

10. Port of Call. Dates. Reasons

Zeebrugge 20/02/2012 Departure homeport. Start of research cruise Belgica 2012/5
Zeebrugge 24/02/2012 Arrival homeport. End of research cruise Belgica 2012/5

11. Any special logistic requirements at ports of call (other than water, fuel provisions, etc.) **N.A.**

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAILS

1. Name of research ship **BELGICA** Cruise N° **2012/5**

2. Dates of cruise From **20 February** To **24 February 2012**

3. Purpose of research and general methods. (If the research work is being taken on behalf of a research institution of a third state, it is the responsibility of that state to obtain prior permission; it is essential that written confirmation that this has been done is obtained and quoted in this application.

   The current minimum mesh size for sole has been determined on the basis of selectivity experiments conducted in the early 1980's. In these experiments, the ICES gauge with a load of 4 kgf (obsolete power unit) has been used for determining the mesh size. This led to a legal minimum mesh size of 80mm to best protect the fish stock. Today fisheries inspection uses the OMEGA gauge with a force of 125N to control netting material used in fisheries. The gear and netting materials have also evolved. In all likelihood, the selectivity parameters and the resulting minimum size can be considered as obsolete. Therefore, new selectivity experiments are needed carried out with modern netting materials and the use of the OMEGA gauge (125N) for measuring the mesh.

4. Attach chart(s) showing (on an appropriate scale) the geographical area of the intended work, positions of intended stations, tracks of survey lines, positions of moored / seabed equipment.

   See chart

5. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radioactivity / Isotope ….

   fish

   and methods by which samples will be obtained (including dredging/coring/drilling).

   beamtrawl with codend with nominal mesh size 80 mm and cod-end cover bag 40 mm

6. Details of moored equipment : **N.A.**

Dates Laying	Recovery	Description	Latitude	Longitude

7. Explosives **N.A.**

   (a) Type and Trade Name
   (b) Chemical content
   (c) Dept of trade class and stowage
   (d) Size
   (e) Depth of detonation
   (f) Frequency of detonation
   (g) Dates of detonation

8. Details and reference of

(a) Any relevant previous/future cruises

Belgica cruises 2001/08, 2001/16, 2001/28, 2001/33a, 2002/22 2003/01, 2003/28 and 2003/31, 2004/2a-b, 2004/27, 2004/30, 2005/06, 2005/09, 2006/03, 2006/25, 2007/02, 2007/26, 2007/27, 2008/03, 2008/29, 2009/03, 2009/10, 2009/32a-b, 2010/02a-b; 2010/31a-b, 2011/04, 2011/10 and 2011/31a-b

(b) Any previous published research data relating to the proposed cruise
(attach separate sheet if necessary)

- **Stouten, H.; Heene, A.; Gellynck, X.; Depestele, J. & Polet, H., 2008. The effect of restrictive policy instruments on Belgian fishing fleet dynamics. Aquat. Living Resour. 21, 2008, pp. 247–258**
- **Vercauteren, G., Chiers, K., Verschueren, B., Decostere, A. and Polet H., 2010. Effects of Low-frequency Pulsed Direct Current on Captive-housed Sea Fish. Journal of Comparative Pathology, Volume 143, Issue 4, November 2010, Page 354**
- **Depestele, J., Vandemaele, S., Vanhee, W., Polet, H., Torreele, E., Leirs, H. and Vincx, M., 2011. Quantifying causes of discard variability: an indispensable assistance to discard estimation and a paramount need for policy measures. ICES Journal of Marine Science, special issue on fisheries dependent information – in press**.

9. Names and addresses of scientist of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

Dr. Michel J. KAISER, School of Ocean Sciences, University of Wales-Bangor, Menai Bridge, Gwynedd, LL59 SEY, UK
Dr. Barry O'Neill, Marine Laboratory, PO Box 101, 375 Victoria Road, Aberdeen AB11 9DB, UK

10. State :

(a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable.

Yes

(b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation / disembarkation.

Yes, cfr. part A § 10

(c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means. (If the final report is likely to be delayed beyond 12 months, interim progress reports are required.

Cruise report within 2 months by request to the chief scientist

Part C: SCIENTIFIC EQUIPMENT

COASTAL STATE : **UNITED KINGDOM**

(Indicate "YES" or "NO")

LIST SCIENTIFIC WORK BY FUNCTION EG. MAGNETOMETRY : GRAVITY DIVING : SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V. : MOORED INSTRUMENTS: TOWED INSTRUMENTS:	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARCH WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	DISTANCE FROM COAST		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
beam trawl with codend with nominal mesh size 80mm and cod-end cover 40mm	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**No**

Belgica campaigns 2012/5: chart