

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

### PART A: GENERAL

1. *NAME OF RESEARCH SHIP* Belgica *CRUISE NO.* 2003/28
2. *DATES OF CRUISE* From: 03/11/2003 To: 07/11/2003
3. *OPERATING AUTHORITY* Belgian Navy under contract for Belgian Ministry of Science Policy, Management Unit of the North Sea Mathematic Model "MUMM", 3deg & 23deg Linierregimentsplein, 8400 Oostende,  
  
Telephone: 32(0)59 70 01 31  
Facsimile: 32(0)59 70 49 35  
Email: bmmost@mumm.ac.be
4. *OWNER*  
*(if different from No. 3)* Belgian state represented by Minister for Science Policy
5. *PARTICULARS OF SHIP*  
*NAME:* Belgica  
*NATIONALITY:* Belgian  
*OVERALL LENGTH:* 51 metres  
*MAXIMUM DRAUGHT:* 4.5 metres  
*NET TONNAGE:* 232 NRT  
*PROPULSION:* diesel  
*CALL SIGN:* ORGQ  
*REGISTERED PORT & NUMBER:*  
*(if registered fishing vessel)*
6. *CREW*  
*NAME OF MASTER:* P. Ramboer, 1LZ  
*NO. OF CREW:* 15
7. *SCIENTIFIC PERSONNEL*  
*NAME AND ADDRESS OF SCIENTIST IN CHARGE:* Dhr. Hans Polet,  
Sea Fisheries Department,  
Technical Research Unit,  
Ankerstraat 1,  
8400 Oostende,  
Belgium.  
  
*TEL./TELEX/FAX NO:*  
  
*NUMBER OF SCIENTISTS:* 15
8. *GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE*  
*(with reference to latitude and longitude)*  
Belgian, Dutch and UK continental shelves.  
51deg 50'00 N 00deg 00 E and 54deg 00 N 08deg 00 E
9. *BRIEF DESCRIPTION OF PURPOSE OF CRUISE*  
European funded research project in the frame of the North Sea Cod Recovery Programme  
Optimalisation of the species selectivity in the flatfish beam trawl
10. *DATES AND NAMES OF INTENDED PORTS OF CALL*  
Zeebrugge 03/11/03 to 07/11/03 Departure - Arrival
11. *ANY SPECIAL REQUIREMENTS AT PORTS OF CALL*  
N/A

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

### PART B: DETAIL

1. *NAME OF RESEARCH SHIP* Belgica *CRUISE NO.* 2003/28
2. *DATES OF CRUISE* From: 03/11/2003 To: 07/11/2003
3. a) *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).*

In order to try to cope with the cod crisis, the European Commission decided to install new technical measures for fishing gear used in the North Sea. Recent research, however, showed that more effective methods are necessary to obtain a good species selectivity in the flatfish beam trawl. In this project, different alterations to the front part of the net will be tried out in order to provide cod with more effective escape routes. In a first stage, alterations to the headline and escape zones in the top panel will be tested. These experiments are carried out in Cupertino with other North Sea states and aim to support the North Sea Cod Recovery Plan.

4. *ATTACH CHART (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, areas to be fished)*

See chart

5. a) *TYPES OF SAMPLES REQUIRED (e.g. Geological/Water/Plankton/Fish/Radionuclide)*

Fish

b) *METHODS OF OBTAINING SAMPLES (e.g. dredging/coring/drilling/fishing, etc.) (When using fishing gear, indicate fish stocks being worked, quantity of each species required, quantify of fish to be retained on board)*

Flatfish beam trawl (twin net)

6. *DETAILS OF MOORED EQUIPMENT*

N/A

<u>Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
---------------	-----------------	--------------------	--------------	-----------------	------------------

7. *ANY HAZARDOUS MATERIALS (Chemicals, Explosives, Gases, Radioactive etc) (use separate sheet, if necessary)*

N/A

- a) *TYPE AND TRADE NAME*
- b) *CHEMICAL CONTENT (& FORMULA)*
- c) *IMO IMDG CODE REFERENCE & UN. NO.*
- d) *QUANTITY & METHOD OF STOWAGE ON BOARD*
- e) *IF EXPLOSIVES GIVE DATE(S) OF DETONATION*

- *Method of detonation*
- *Position of detonation*
- *Frequency of detonation*
- *Depth of detonation*
- *Size of explosive charge in Kgs*

8. *DETAIL & REFERENCE OF*

a) *ANY RELEVANT PREVIOUS/FUTURE CRUISES*

Belgica cruises 2001/08, 2001/28, 2001/33a and 2002/22.

b) *ANY PREVIOUSLY PUBLISHED DATA RELATING TO THE PROPOSED CRUISE*

Fonteyne, R. and Polet, H., 2002. Reducing the benthos by-catch in flatfish beam trawling by means of technical modifications. Fisheries Research, 55 (1-3) (2002) pp. 219-230.

Fonteyne, R., Polet, H., Van Marlen, B., Macmullen, Ph. and Swarbrick, J., 1997. Optimisation of a species selective beam trawl. ICES Fish. Technol. Fish. Behav. Work. Group Meeting, Hamburg, Duitsland, April 1997.

9. *NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE*

Dr. Bob van Marlen, RIVO-DLO, Haringkade 1, Postbus 68, 1970 AB IJmuiden, Nederland

Dr. Michael J. Kaiser, School of Ocean Sciences, University of Wales-Bangor, Menai Bridge, Gwynedd, LL59 5EY, UK.

10. STATE

a) *WHETHER VISITS TO THE SHIP IN PORT BY SCIENTISTS OF THE COASTAL STATE CONCERNED WILL BE ACCEPTABLE*

Yes

b) *PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND PORTS FOR EMBARKATION/DISEMBARKATION*

N/A

c) *WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AND BY WHAT MEANS*

Cruise report within 2 months by request to the chief scientist  
see 8b above

**PART C: SCIENTIFIC EQUIPMENT**

COASTAL STATE: The Netherlands

PORT CALL:

DATES:

11. COMPLETE THE FOLLOWING TABLE - SEPARATE PAGE FOR EACH COASTAL STATE  
(indicate "Yes" or "No")

<i>List of all major marine scientific equipment, including scientific sonar other than standard navigational echo sounders it is proposed to use and indicate waters in which it will be deployed</i>	<i>In territorial</i>	<i>On continental shelf</i>
8 m flatfish beam trawl (twin net)	Yes	Yes

**PART C: SCIENTIFIC EQUIPMENT**

COASTAL STATE: United Kingdom

PORT CALL:

DATES:

11. COMPLETE THE FOLLOWING TABLE - SEPARATE PAGE FOR EACH COASTAL STATE  
(indicate "Yes" or "No")

<i>List of all major marine scientific equipment, including scientific sonar other than standard navigational echo sounders it is proposed to use and indicate waters in which it will be deployed</i>	<i>In territorial</i>	<i>On continental shelf</i>
8 m flatfish beam trawl (twin net)	Yes	Yes

*(On behalf of the Principal Scientist)*

*Dated 08/07/2003*

**N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.**