NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL ORGANISATION PART A

1. Name of research ship **BELGICA**

Cruise N°

2007/02

2. Dates of cruise From

05 February

09 February 2007 to

3. Operating Authority Belglan Navy under contract for Belglan Ministry of Science Policy Management Unit of the North Sea Mathematical Model "M.U.M.M.",

3º & 23º Linieregimentsplein, 8400 Oostende Tel, 32(0)59 70 01 31, Facsimile 32(0)59 70 49 35

Email: bmmost@mumm.ac.be

4. Owner Beiglan 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 232 NRT Propulsion Diesel Call Sign ORGQ

Telephone INMARSAT 00870 76 218 73 27 Facsimile INMARSAT 00870 32 052 18 12

E-mail

belgica@mumm.ac.be

Crew

Name of master

L. GOUSSAERT, KVK

N° of Crew

15

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

Dhr. Hans POLET / Dhr. Fernand DELANGHE

ILVO-Dier-Visserij

Technical Research Unit

Ankerstraat 1, 8400 OOSTENDE, Belgium

Tel 059/56 98 37 / 059/56 98 41

Fax: 059/33 06 29

hans.polet@ilvo.vlaanderen.be / fernand.delanghe@ilvo.vlaanderen.be

N° of scientists

(A nominal 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).

Belgian, Dutch, French and UK continental shelf Between 0° and 5° E and 51°N and 54°30'N

- 9. Brief description of purpose of cruise
 - Cruise in the frame of the research project IDEV: Development of a long-term strategy for the Belgian fishing fleet with the aim to develop an ecologically, economically and socially sustainable fishery. The purpose of the cruise is to test environment friendly and fuel saving adaptations to the beam trawl, Alternative gears like the outrigger otter trawl will by tried as well.
- 10. Port of Call. Dates. Reasons.

Zeebrugge

05.02 / 09.02

Departure/Arrival (start/end of campaign)

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

N.A.

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NOTIFICATION OF PROPOSED RESEARCH CRUISE

DETAIL PART B

1. Name of research ship

BELGICA

Cruise N°

2007/02

2. Date of cruise

From

05 February

To O9 February 2007

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 beam trawl has a bad reputation what concerns the impact on the marine environment. Several scientific studies have demonstrated this. The aim of the project is to decrease the environmental impact and fuel consumption through means of technical adaptations to the fishing gear. Several technical adaptations will be evaluated on board by the research vessel Belgica with the intention, in a second phase, to test the most promising designs in the commercial fishery. The designs to be studies are: 1) T90 cod-end mesh size 90mm and 100mm; 2) large meshes in the top panel. Alternative gears like the outrigger ofter trawl will by tried as well. The methods are generally accepted selectivity methods like "catch comparison" or "covered cod-end" with a detailed measurement of the commercial species in the catch and sampling of the non-commercial by-catch.

 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

flah

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

flatfish beam trawl (twin net) or outrigger otter trawl

6. Details of moored equipment:

N.A.

Dates

Laying

Recovery

Description

Latitude

Longitude

7. Explosives:

N.A.

(a) Type and Trade Name

(c) Dept of trade class and stowage

(e) Depth of detonation

(g) Dates of detonation

(b) chemical content

(d) Size

(f) Frequency of detonation

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- 8. Details and reference of
 - 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

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

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 Marien, 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.

Anon., 2000. Improving Technical Management in Baltic Cod Fishery (BACOMA). Final report research project FAIR CT 96-1994

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. R.S.T. FERRO, Marine Laboratory, Aberdeers, UK
Mr. B. van Marien, RIVO, Haringkade 1, IJmuiden, the Netherlands
Gerard Bayouzet, IFREMER, 8, rue François To ullec, F-56100 Lorient, France

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, see 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
 - The research data have been and will be published within the frame of the Fisheries Technology Committee of ICES (see 8b above)

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PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE: THE NETHERLANDS

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK				DISTANCE FROM COAST		
eg. MAGNETOMETRY: GRAVITY DIVING: SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING: WATER SAMPLING UW T.V.: MOORED INSTRUMENTS:	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARC H WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENT AL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE E CONTINENT AL MARGIEN
Trawling with an 8m beam trawl	yes	yes	yes	yes	yes	no
			:			

PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE:

UNITED KINGDOM

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK			ų	DISTANCE FROM COAST		
eg. MAGNETOMETRY: GRAVITY DIVING: SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING: WATER SAMPLING UW 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	WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
Trawling with an 8m beam trawl	уев	yes	yes	yes	yes	no
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PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE: FRANCE

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST		
Eg. MAGNETOMETRY: GRAVITY DIVING: SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING: WATER SAMPLING UW T.V.: MODRED 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	WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY) BEYOND 200 INM BUT WITHIN THE CONTINENTAL MARGIN
Trawling with an 8m	yes -	yes	Yев	yes	yes	по
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