

NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL ORGANISATION PART A

1. Name of research ship **BELGICA** Cruise N° **2005/22**
2. Dates of cruise From **19 September** to **23 September 2005**
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° Linleregimentsplein, 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	232 NRT
Propulsion	Diesel
Call Sign	ORGQ
6. Crew

Name of master	L. GOUSSAERT, LTZ 1se Klasse
N° of Crew	15
7. Scientific Personnel

Name and address of scientist in charge :

**Dhr. Hans POLET / Dhr. Fernand DELANGHE
Sea Fisheries Department
Technical Research Unit
Ankerstraat 1, 8400 OOSTENDE, Belgium**

N° of scientists **15**

(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 and UK continental shelf
51°00 N 0°00 E 55°30 N 8°00E**
9. Brief description of purpose of cruise

**European funded research project in the frame of the North Sea Cod Recovery Programme
NECESSITY "*Nephrops and Cetacean Species Selection Information and Technology*"**

 - **Optimisation of the species selectivity in the flatfish beam trawl**
10. Port of Call. Dates. Reasons.

Zeebrugge, 19/0905 - 23/09//05 : Departure/Arrival (start and end of campaign)
11. Any special logistic requirements at ports of call (other than water, fuel provisions, etc.)

N.A.

NOTIFICATION OF PROPOSED RESEARCH CRUISE

DETAIL PART B

1. Name of research ship **BELGICA** Cruise N° **2005/22**
2. Date of cruise From **19 September** To **23 September 2005**
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.

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(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).

flatfish beam trawl (twin net)
6. Details of moored equipment : **N.A.**

Dates	Recovery	Description	Latitude	Longitude
Laying				
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

b) Any previous published research data 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 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.

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

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 5EY, UK
Dr. R.S.T. FERRO, Marine Laboratory, Aberdeen, UK
Mr. B. van Marlen, RIVO, Haringkade 1, IJmuiden, the Netherlands

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)**

PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE : THE NETHERLANDS

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK (ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
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			
Trawling with an 8m beam trawl	yes	yes	yes	yes	yes	no

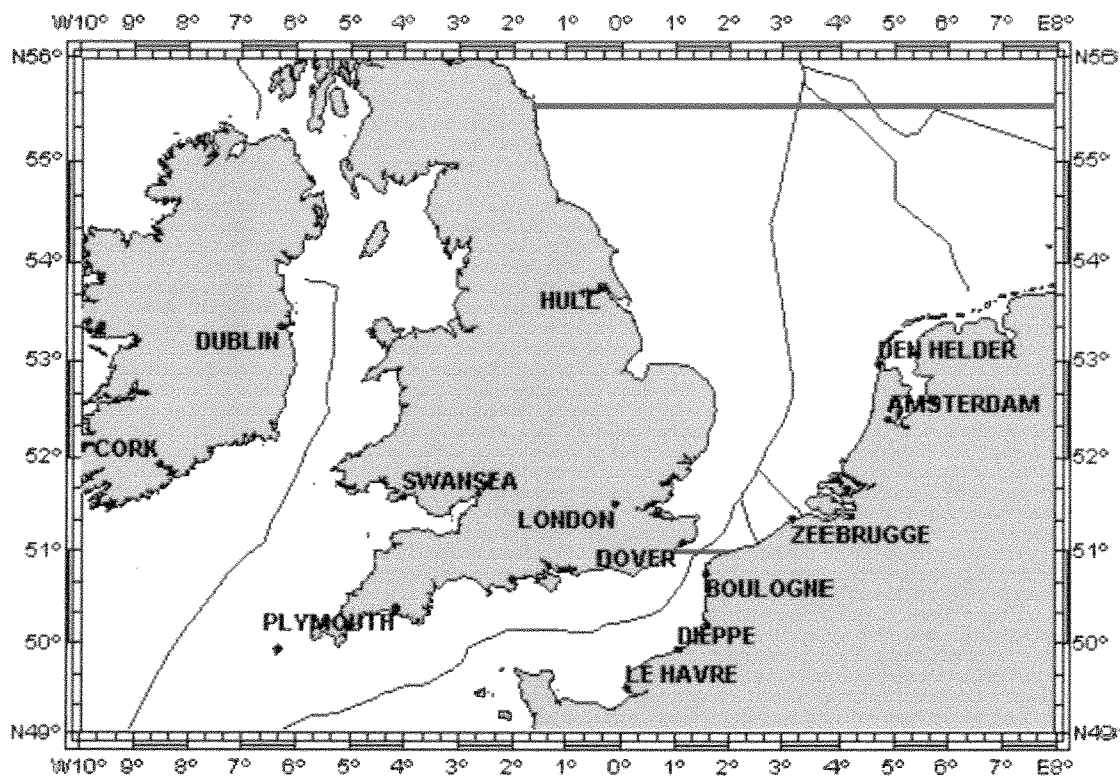
PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE : UNITED KINGDOM

INDICATE "YES" OR "NO"

<u>LIST SCIENTIFIC WORK BY FUNCTION</u> eg. MAGNETOMETRY : GRAVITY DIVING : SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V. : MOORED INSTRUMENTS: TOWED INSTRUMENTS:				DISTANCE FROM COAST		
				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	yes	yes	yes	yes	yes	no

Belgica campaign 05/22 : Chart



INTERNATIONAL AFFAIRS / SURVEY / BNS BELGICA / UK TTW/ 19/09 – 23/09/ 2005.

1. **A. Participating naval unit:** BNS BELGICA (A 962)
B. Ship's characteristics: length 51m / beam 10m / draught 4.6m / masthead height 28.6m / Displacement 1200 T
2. **Waters to be passed:** UK TTW
3. **Waters :**
A. Entrance UK TTW : on 19 Sep PM near Dover
B. Leaving UK TTW : on 23 Sep AM near Dover
4. **Anchorage in UK TW:** in case of adverse weather or technical problems
5. **Visit to harbour (harbour / period / character):** nihil
6. **Commanding officer:** LTCDR Lieven GOUSSAERT (Sep 03)
7. **Crew:**
A. Total crew: 30
B. Officers: 2
C. Crew: 13
D. Civilian scientists: 15
8. **Reason for visit:** nil
Reason for stay in EZ: FISHERY
9. **Communication requirements :**
A.1. Frequencies: 2461K3, 4158K8, 6239K0, 8330k4
A.2. Frequencies: 2072k1, 4113k9, 8752k2
B.1. Transmission mode: F1B
B.2. Transmission mode: J3E
C. Effective output: 400 Watt
D. International call sign: OSCAR ROMEO GOLF QUEBEC
E. Receiver station: OSN
10. **Organic aircraft:** nil
11. **Logistic requirements:** nil
12. **Summary of survey:** See para 9 of NPRC (annexe B)