

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. *NAME OF RESEARCH SHIP* Belgica *CRUISE NO.* 2004/02
2. *DATES OF CRUISE* From: 9th Feb 2004 To: 20th Feb 2004
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° Linierregimentsplein,
8400 Oostende

Telephone: 32(0)59 70 01 31
Facsimile: 32(0)59 70 49 35
Telex:
4. *OWNER* Belgian state represented by Minister for Science Policy
(if different from No. 3)
5. *PARTICULARS OF SHIP*
NAME: Belgica
NATIONALITY: Belgian
OVERALL LENGTH: 51 metres
MAXIMUM DRAUGHT: 4.5 metres
GRT: 232 tonnes
PROPULSION: Diesel
CALL SIGN: ORGQ
TELEPHONE:
FAX:
REGISTERED PORT & NUMBER:
(if registered fishing vessel)
6. *CREW*
NAME OF MASTER: P. Ramboer, LTZ 1ste Klasse
NO. OF CREW: 15
7. *SCIENTIFIC PERSONNEL*
NAME AND ADDRESS OF SCIENTIST IN CHARGE:
Dhr. Hans POLET / Dhr. Ronald FONTEYNE
Sea Fisheries Department
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 and UK continental shelf
51°00 N 0°00 E 54°00 N 8°00 E

9. *BRIEF DESCRIPTION OF PURPOSE OF CRUISE*

European funded research project in the frame of the North Sea Cod Recovery Programme

- Optimisation of the species selectivity in the flatfish beam trawls
- Improvement of length selectivity for cod of flatfish beam trawls

10. *DATES AND NAMES OF INTENDED PORTS OF CALL*

Zeebrugge	09.02	Departure	
Swansea (UK)	13.02(p.m.)	Arrival and	16.02 (a.m.) Departure: relaxation of crew and scientists
Zeebrugge	20.02	Arrival	

11. *ANY SPECIAL REQUIREMENTS AT PORTS OF CALL*

N.A.

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PART B: DETAIL

1. *NAME OF RESEARCH SHIP* Belgica *CRUISE NO.* 2004/02

2. *DATES OF CRUISE* From: 9th Feb 2004 To: 20th Feb 2004

3. a) *PURPOSE OF RESEARCH*

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 the Cupertino with other North Sea states and aim to support the "North Sea Cod Recovery Plan".

This project also intends to improve the length selectivity for cod of flatfish beam trawls by applying square mesh windows in the cod-end. The project is performed in the frame of the "North Sea Cod Recovery Plan", aiming at the recovery of the North Sea cod stocks. The application of square mesh windows already proved to be successful in the Baltic Sea cod fisheries. The experiments are part of the EU funded project "Recovery"

b) *GENERAL OPERATIONAL METHODS*

(including full description of any fishing gear trawl type, mesh size, etc.)

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.

DATES:

<u>Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
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7. *ANY HAZARDOUS MATERIALS*

N.A.

(Chemicals, Explosives, Gases, Radioactive etc)
(use separate sheet, if necessary)

- 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, 2001/16, 2001/28, 2001/33a, 2002/22, 2003/01, 2003/28 and 2003/31

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

Fonteyne, R., Polet. H., 2002. Reducing the benthos by-catch in flatfish beam trawling by mean 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 SCIENTISTS OF THE COASTAL STATE(S) 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, Gwyned, LL59 5EY, UK

Dr. R.S.T. Ferro, Marine Laboratory, Aberdeen, 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*

Yes, see part A 10 (Zeebrugge and Swansea)

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.

- 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: UK
 PORT CALL:
 DATES:

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

				DISTANCE FROM COAST		
				WITHIN 4 NM	BETWEEN 4 AND 12 NM	BETWEEN 12 AND 200 NM
LIST SCIENTIFIC WORK BY FUNCTION e.g. MAGNETOMETRY GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV 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			

(On behalf of the Principal Scientist)

Dated:

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.