

NOTIFICATION OF PROPOSED RESEARCH CRUISE

DETAIL
PART B

1. Name of research ship **BELGICA** Cruise N° **2007/18**
2. Date of cruise From **27 August 2007** To **07 September 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.

Since 1985, the Sea Fisheries Department performs fishery-independent surveys of the adult flatfish stocks (primarily plaice and sole) in the southern North Sea. Each year, approximately 60 stations are sampled. All invertebrates and fish are sorted by species, then counted. The commercial species are also measured for length. For plaice and sole, otoliths are taken for age determination (5 otoliths per cm size class). The data are exchanged at the Working Group on Beam Trawl Surveys (WGBEAM), a group which is co-ordinated by the International Council for the Exploration of the Sea (ICES). Finally, fish diseases are looked at on board, and samples are taken for the analysis of heavy metals and radio-activity.

The survey is a compulsory part of the Belgian National Data Gathering Program, in fulfillment of the requirements of EC Regulation 1638/2001 en no. 1581/2004.

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 1 + positions in Table 1

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).

beam trawling

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

Dates		Description	Latitude	Longitude
Laying	Recovery			

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

8. Details and reference of

(a) Any relevant previous/future cruises

Belgica cruises 92/19, 93/19, 94/19, 95/19, 96/19, 97/17, 98/16, 99/18, 2000/20, 2001/21, 2002/18, 2003/20, 2004/18, 2005/19 and 2006/17

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

Demersal fish populations in the coastal waters of the UK and continental NW Europe from beam trawl survey data collected from 1990 to 1995. Journal of Sea Research Vol. 39 (1998) 79-102.
ICES. 2005. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2005/G:12.
ICES. 2006. Report of the Working Group on Beam Trawl Surveys (WGBEAM), 16-19 May 2006, Hamburg, Germany. ICES CM 2006/LRC:11. 104 pp.
Anon., 2005. Technical Report on the Belgian National Data Gathering Program 2004
Anon., 2006. Technical Report on the Belgian National Data Gathering Program 2005

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.

Mr. R. MILLNER, CEFAS, Lowestoft, Suffolk NR33 0HT, UK
Mr. F. COPPIN, IFREMER, Boulogne, 150 qual Gambetta, FR

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 after the cruise, by request to the chief scientist.
The research data have been and will be published within the frame of the Marine Resources Committee of ICES

NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL
ORGANISATION
PART A

1. Name of research ship **BELGICA** Cruise N° **2007/18**
2. Dates of cruise From **27 August 2007** to **07 September 2007**
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 Tel, 32(0)59 70 01 31, Facsimile 32(0)59 70 49 35 Email : bmmost@mummm.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
Net tonnage	232 NRT
Propulsion	Diesel
Call Sign	ORGQ
6. Crew

Name of master	1LZ R. JOOSEN
N° of Crew	15
7. Scientific Personnel Name and address of scientist in charge :

**Bart MAERTENS
ILVO-Fisheries (former CLO - Sea Fisheries Department)
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 , French and UK Continental Shelves
N 51°00, E 0°30, N 54°00, E 3°00**
9. Brief description of purpose of cruise

Research project in the frame of the ICES co-ordinated Working Group on Beam Trawl Surveys. Determination of flatfish stocks (primarily plaice and sole) in the North Sea
10. Port of Call. Dates. Reasons.

Zeebrugge	27/08/07(a.m.)	Departure : Start of campaign 18 - part a)
Ipswich	31/08/07(p.m.)	Relaxation of crew and scientists
Ipswich	03/09/07(a.m.)	Start of campaign 18 - part b)
Zeebrugge	07/09/07(p.m.)	Arrival : End of campaign 18
11. Any special logistic requirements at ports of call (other than water, fuel provisions, etc.)

N.A.

Annex A
Campaigns 07/18

INTERNATIONAL AFFAIRS / SURVEY / BNS BELGICA / UK EZ - TTW / 27/08 - 07/09/2007

1.

A. Participating naval unit: BNS BELGICA A962

B. ship characteristics : length 51m , width 10m ; draught 4.6m / displacement 1200 T / masthead 28.6 m /

2. waters to be passed : UK EZ and TTW

3. Waters

A. entrance in UK EZ/TTW : 27 aug am near Sunk VTS

B. leaving UK EZ/TTW : 07 sep am near Sunk VTS

4. Anchorage and passage in UK TTW: requested in case of adverse weather conditions or technical problems

5. Visit to harbour (harbour/period/character):

a. IPSWICH (UK)

b. Period: 311500 aug - 030900 aug sep 07

c. Routine

6. Commanding officer : LT CDR Ron Joosen, 26 sep 2003

7. Crew :

a. total 30

b. officers: 2

c. cpo : 4

d. rating : 9

e. civilian scientists : 15

8. Reason for stay in TTW and EZ: MONITORING/FISHING

9. Communications requirements

A.1. frequencies.: 2461 - 4158 - 6239 - 8330 khz

B.1. transmission mode : F1b

A.2. frequencies : 2072 - 4113 - 8752 khz

B.2. transmission mode : J3e

C. effective output : 400 watt

D. Int call sign : orgq (oscar romeo golf quebec)

10. n.a.

11. Logistic requirements in harbour:

a. Harbour pilot: yes, on arrival and departure

b. Tug: only in case of adverse weather conditions

c. Fresh water: 20 cums on arrival

d. Garbage container: yes

e. Line handlers: yes

f. Gangway: yes

PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE: FRANCE

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION	DISTANCE FROM COAST			YES	NO
	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 UNW.T.V. : MOORED INSTRUMENTS: TOWED INSTRUMENTS:	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	FISHERIES RESEARCH WITHIN FISHING LIMITS	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	YES	NO
4 m beam trawl with chain net	NO	YES	NO	YES	NO

PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE: UNITED KINGDOM

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 UAV T.V. : MOORED INSTRUMENTS: TOWED INSTRUMENTS:	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	NO	NO
	FISHERIES RESEARCH WITHIN FISHING LIMITS	YES	YES
	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	NO	NO
4 m beam trawl with chain net			

BELGIÏA Cruise 2007/18 : Table 1

Station	Positie begin		Positie einde	
1	N51° 24.07'	E2° 31' 37	N51° 25 ' 47	E2° 33' 11
2	N51° 38.73'	E2° 44' 78	N51° 40 ' 00	E2° 47' 35
3	N51° 53.75'	E2° 31' 22	N51° 54 ' 70	E2° 33' 81
4	N52° 02.69'	E2° 30' 43	N52° 01 ' 27	E2° 28' 35
5	N52° 25.02'	E2° 37' 35	N52° 27 ' 08	E2° 37' 42
6	N52° 32.73'	E2° 30' 43	N52° 34 ' 59	E2° 31' 85
7	N52° 54.39'	E2° 30' 05	N52° 55 ' 24	E2° 31' 84
8	N53° 10.02'	E2° 44' 38	N53° 11 ' 95	E2° 44' 56
9	N53° 24.42'	E2° 39' 07	N53° 26 ' 94	E2° 41' 38
11	N53° 51.64'	E2° 12' 17	N53° 53 ' 57	E2° 14' 21
16	N53° 50.62'	E1° 22' 57	N53° 51 ' 20	E1° 25' 70
17	N53° 49.27'	E1° 17' 06	N53° 49 ' 25	E1° 13' 21
18	N53° 40.95'	E0° 45' 93	N53° 40 ' 90	E0° 47' 46
19	N53° 52.60'	E0° 32' 92	N53° 56 ' 40	E0° 32' 33
20	N53° 59.43'	E0° 39' 38	N54° 00 ' 50	E0° 42' 68
22	N53° 25.50'	E0° 38' 00	N53° 24 ' 10	E0° 40' 73
24	N53° 13.32'	E1° 47' 82	N53° 14 ' 64	E1° 44' 88
25	N53° 25.24'	E1° 38' 99	N53° 27 ' 21	E1° 37' 71
26	N53° 23.40'	E2° 09' 60	N53° 25 ' 80	E2° 05' 50
28	N52° 48.56'	E2° 17' 04	N52° 50 ' 47	E2° 16' 23
29	N52° 36.04'	E2° 05' 24	N52° 35 ' 28	E2° 02' 77
30	N52° 17.90'	E2° 19' 09	N52° 17 ' 21	E2° 15' 46
32	N51° 50.37'	E2° 12' 45	N51° 48 ' 20	E2° 10' 83
33	N51° 48.54'	E1° 46' 60	N51° 46 ' 56	E1° 46' 86
34	N51° 41.51'	E1° 50' 04	N51° 39 ' 57	E1° 48' 77
36	N51° 27.78'	E2° 20' 66	N51° 28 ' 55	E2° 21' 27
37	N51° 22.70'	E2° 10' 93	N51° 26 ' 05	E2° 13' 35
38	N51° 10.99'	E1° 51' 67	N51° 11 ' 60	E1° 53' 30
39	N51° 17.80'	E2° 20' 49	N51° 19 ' 65	E2° 23' 74
40a	N51° 21.14'	E2° 55' 45	N51° 20 ' 19	E2° 53' 39
60	N53° 21.20'	E0° 35' 33	N53° 19 ' 36	E0° 34' 97
61	N53° 00.70'	E1° 33' 62	N53° 02 ' 27	E1° 31' 40
62	N52° 57.04'	E1° 50' 02	N52° 57 ' 97	E1° 48' 16
63	N52° 36.90'	E2° 01' 70	N52° 41 ' 63	E2° 08' 80
64	N52° 10.00'	E1° 41' 80	N52° 11 ' 15	E1° 43' 23
72	N53° 26.50'	E0° 56' 90	N53° 28 ' 40	E0° 54' 60
73	N53° 00.19'	E2° 05' 76	N52° 59 ' 16	E2° 08' 13
81	N53° 21.08'	E1° 10' 38	N53° 19 ' 65	E1° 11' 85
81b	N51° 25.14'	E1° 23' 49	N51° 25 ' 22	E1° 26' 83
82	N52° 01.36'	E1° 53' 60	N52° 04 ' 59	E1° 54' 83
82b	N51° 41.84'	E1° 28' 64	N51° 40 ' 84	E1° 26' 65
83	N51° 55.04'	E1° 34' 32	N51° 56 ' 98	E1° 35' 04
84	N51° 17.20'	E1° 44' 20	N51° 14 ' 33	E1° 42' 25
85	N51° 36.50'	E1° 54' 18	N51° 33 ' 80	E1° 51' 40
86	N51° 19.78'	E2° 38' 23	N51° 18 ' 07	E2° 37' 85
90	N52° 21.80'	E1° 54' 80	N52° 19 ' 70	E1° 54' 00
91a	N51° 53.60'	E1° 35' 95	N51° 55 ' 30	E1° 38' 20
92	N52° 03.80'	E1° 45' 80	N52° 04 ' 50	E1° 49' 25
93	N51° 36.04'	E1° 30' 04	N51° 12 ' 00	E1° 35' 80
94	N51° 26.14'	E1° 39' 66	N51° 27 ' 41	E1° 41' 19
96	N51° 29.95'	E1° 52' 12	N51° 25 ' 20	E1° 49' 52
96b	N51° 27.80'	E1° 20' 00	N51° 27 ' 21	E1° 16' 92
98b	N51° 55.50'	E1° 34' 50	N51° 57 ' 30	E1° 35' 20
102b	N52° 15.90'	E1° 41' 60	N51° 14 ' 10	E1° 40' 50
107b	N52° 30.62'	E1° 50' 81	N51° 28 ' 86	E1° 50' 70
110b	N53° 19.96'	E1° 25' 63	N51° 19 ' 91	E1° 28' 65
111	N53° 30.36'	E0° 41' 12	N53° 27 ' 81	E0° 59' 90
112	N53° 40.71'	E1° 55' 14	N53° 47 ' 85	E1° 48' 49
113	N53° 49.46'	E2° 42' 20	N53° 51 ' 60	E2° 36' 66
114	N53° 43.22'	E1° 02' 49	N53° 41 ' 10	E1° 04' 29
115	N53° 20.55'	E1° 29' 95	N53° 18 ' 47	E1° 32' 95
116	N53° 44.75'	E2° 22' 45	N53° 45 ' 65	E2° 38' 80

PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE:

UNITED KINGDOM

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 NMS BUT WITHIN THE CONTINENTAL MARGIN
eg: MAGNETOMETRY: GRAVITY DIVING: SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING: WATER SAMPLING U/V 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	YES	YES	NO
4 m beam trawl with chain net	NO	YES	NO	YES	YES	NO

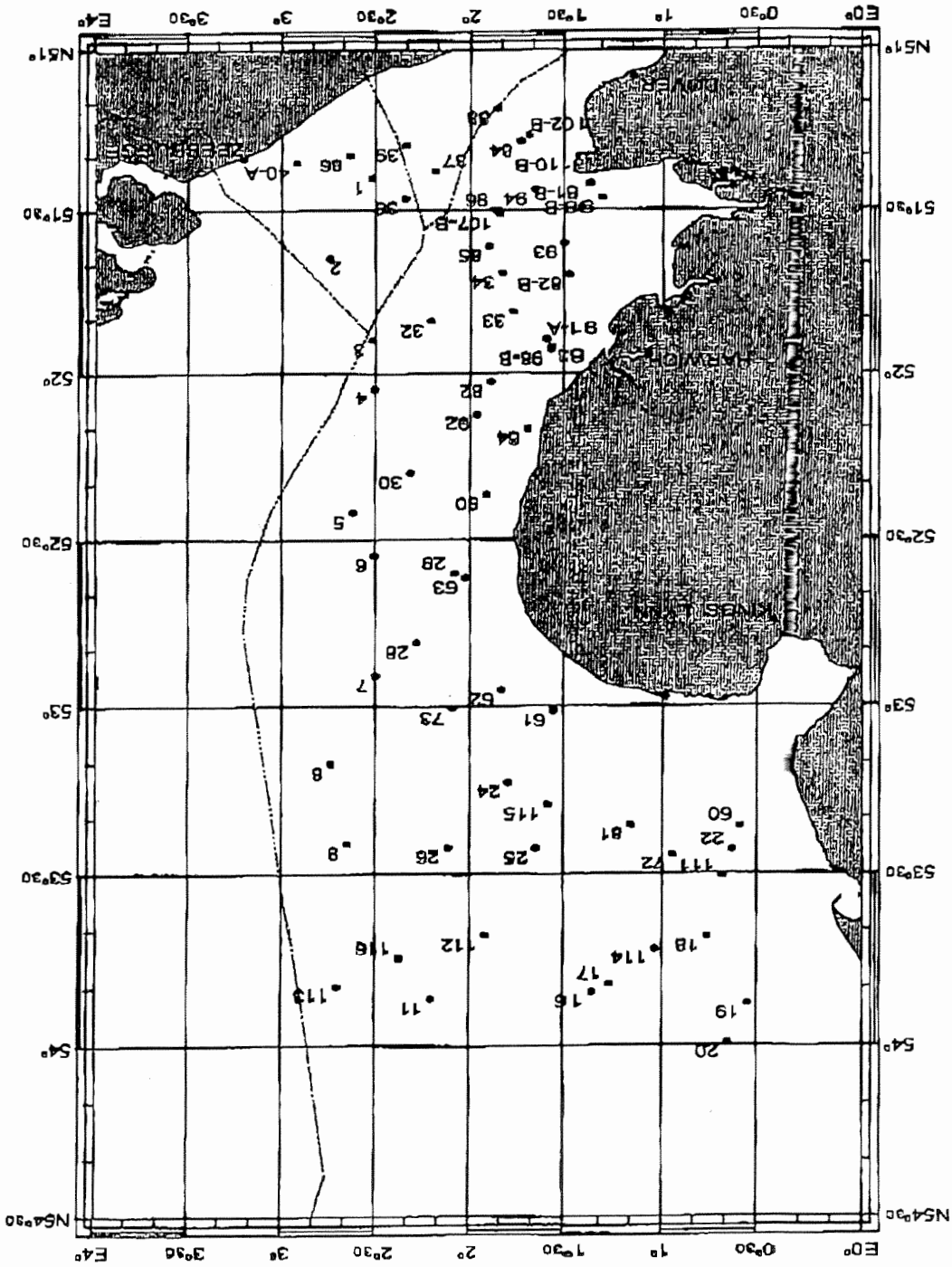


Chart 1: Belgica campaign 2007/18

PART C : SCIENTIFIC EQUIPMENT

COASTAL STATE :

FRANCE

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION	NO	YES	NO	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 : SEIBRACS : BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING UWT.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	YES	YES	NO
4 m beam trawl with chain net	NO	YES	NO	YES	YES	NO