NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL ORGANISATION
PART A

1. Name of research ship **BELGICA** Cruise N° **2011/22a-b**

2. Dates of cruise From **22 August 2011** to **02 September 2011**

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° Linieregimentsplein, 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
Net tonnage	232 NRT
Propulsion	Diesel
Call Sign	ORGQ

6. Crew
Name of master **DE MAESSCHALK Luc, KVK**
N° of Crew **15**

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

Kelle Moreau
ILVO-Fisheries
Ankerstraat 1
8400 OOSTENDE
BELGIUM
Tel +32-59-569830, Fax: +32-59-330629,
Email: kelle.moreau@ilvo.vlaanderen.be

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	**22/08/11**	**Departure home port : Start of research cruise 11/22a**
Hull	**26/08/11**	**Arrival : end of research cruise 11/22a**
		Relaxation of crew and scientists
Hull	**29/08/11**	**Departure : Start of research cruised 11/22b**
Zeebrugge	**02/09/11**	**Arrival home port : End of research cruise 10/22b**

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° **2011/22a-b**

2. Date of cruise From **22 August 2011** To **02 September 2011**

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 ILVO-Sea Fishery, Section Fisheries Bioliogy performs fishery-independent surveys of the adult flatfish stocks (primarily plaice and sole) in the southern North Sea. Each year, approx. 60 stations are sampled. All invertebrates and fish are sorted by species, and then counted. The commercial species are also measured for length. For plaice and sole, otoliths are taken for age determination (10 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). The survey is a compulsory part of the Belgian National Data Gathering Program, in fulfilment of the requirements of EC Regulations no. 199/2008.

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 Laying	Recovery	Description	Latitude	Longitude

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 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, 2007/18, 2008/19, 2009/22 and 2010/21

(b) Any previous published research date 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. 2006. Report of the Working Group on Beam Trawl Surveys (WGBEAM), 16–19 May 2006, Hamburg, Germany.
ICES CM 2006/LRC:11. 104 pp. ICES. 2007. Report of the Working Group on Beam Trawl Surveys (WGBEAM), 12-15 June 2007, Oostende, Belgium. ICES CM 2007/LRC:11. 156 pp
Anon., 2006. Technical Report on the Belgian National Data Gathering Program 2005
Anon., 2007. Technical Report on the Belgian National Data Gathering Program 2006
Anon., 2008. Technical Report on the Belgian National Data Gathering Program 2007

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 OHT, UK
Mr. F. COPPIN, IFREMER, Boulogne, 150 quai 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

PART C : **SCIENTIFIC EQUIPMENT**

COASTAL STATE : **UNITED KINGDOM**

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION 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	DISTANCE FROM COAST		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
4 m beam trawl with chain net & CTD	**NO**	**YES**	**NO**	**YES**	**YES**	**NO**

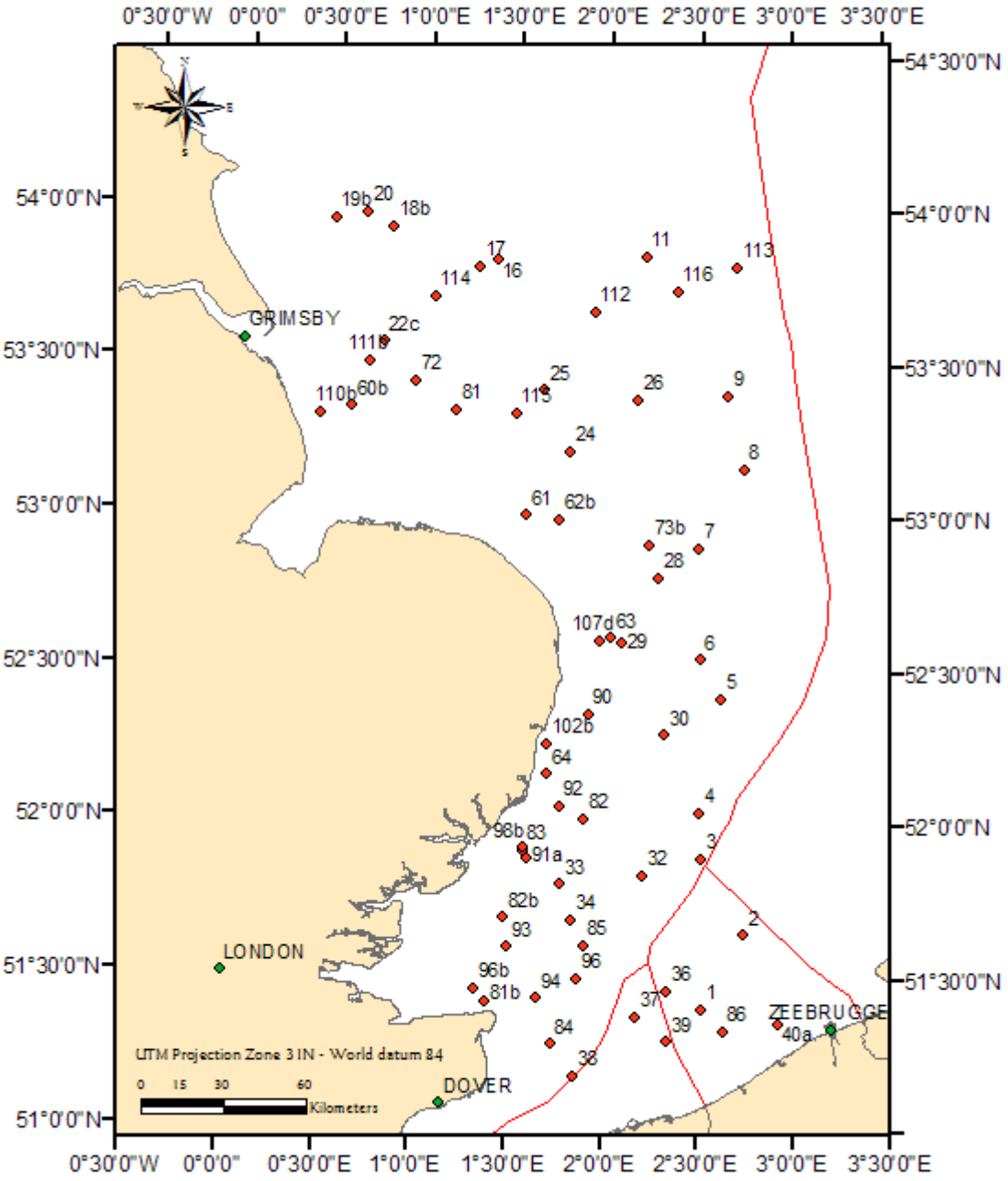
PART C : **SCIENTIFIC EQUIPMENT**

COASTAL STATE : **FRANCE**

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION 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	DISTANCE FROM COAST		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
4 m beam trawl with chain net & CTD	**NO**	**YES**	**NO**	**YES**	**YES**	**NO**

Chart 1: Belgica campaign 2011/22a-b



BELGICA Cruise 2010/22a-b : 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 ' 03	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° 15' 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' 53	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° 99' 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° 33' 80