

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

### PART A: GENERAL

1. Name of research ship **RV BELGICA** Cruise N° **2013/23a-b**
2. Dates of cruise From **26 August** To **06 September 2013**
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.",  
3de & 23ste Linieregimentsplein, 8400 Oostende  
Tel: 32(0)59 70 01 31, Facsimile: 32(0)59 70 49 35  
Email : [bmmost@mumm.ac.be](mailto:bmmost@mumm.ac.be)**
4. Owner **Belgian state represented by Minister for Science Policy**
5. Particulars of ship
- |                 |  |
|-----------------|--|
| Name            | <b>Belgica</b>   |
| Nationality     | Belgian  |
| Overall length  | 51 meters  |
| Maximum draught | 4,5 meters   |
| Nett tonnage    | 232NRT   |
| Propulsion      | Diesel   |
| Call Sign       | ORGQ   |
| Telephone       | INMARSAT 00870 76 218 73 27                                |
| Facsimile       | INMARSAT 00870 32 052 18 12                                |
| Email           | <a href="mailto:belgica@mumm.ac.be">belgica@mumm.ac.be</a> |
6. Crew
- |                |                                       |
|----------------|---------------------------------------|
| Name of master | <b>Lt Cdr (BeN) Manuel Pedro DORY</b> |
| N° of Crew     | <b>15</b>                             |
7. Scientific Personnel
- Name and address of scientist in charge :
- Mr Kelle MOREAU  
Institute for Agricultural and Fisheries Research 'ILVO'  
Animal Science Unit - Fisheries  
Ankerstraat 1, 8400 Ostend, Belgium  
Tel +32-59-56 98 30; Fax : +32-59-33 06 29  
Email : [kelle.moreau@ilvo.vlaanderen.be](mailto:kelle.moreau@ilvo.vlaanderen.be)  
Website : [www.ilvo.vlaanderen.be](http://www.ilvo.vlaanderen.be)**
- N° of scientists : **15**

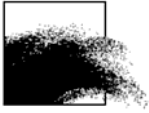
*(A nominall roll of all personnel other than nationals of the applicant (flag) state is required)*

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, W 3°00**

9. Brief description of purpose of cruise

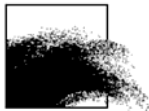
**Research project in the frame of the ICES co-ordinated Working Group on Beam Trawl Surveys.  
Determination of flatfish stocks (primarily plaice and sole) in the North Sea.**



10. Port of Call. Dates. Reasons

<b>Zeebrugge</b>	<b>26/08/2013</b>	<b>Departure homeport. Start of research cruise RV Belgica 2013/23a</b>
<b>Ipswich</b>	<b>30/08/2013</b>	<b>Arrival port Ipswich(p.m.). End of research cruise RV Belgica 2013/23a</b>
<b>Ipswich</b>	<b>31/08-01/09/2013</b>	<b>Relaxation of crew and scientists</b>
<b>Ipswich</b>	<b>02/09/2013</b>	<b>Departure port Ipswich (a.m.) - Start of research cruise RV Belgica 2013/23b</b>
<b>Zeebrugge</b>	<b>06/09/2013</b>	<b>Arrival homeport. End of research cruise RV Belgica 2012/23b</b>

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



## NOTIFICATION OF PROPOSED RESEARCH CRUISE

### PART B: DETAIL

1. Name of research ship **RV BELGICA** Cruise N° **2013/23ab**

2. Dates of cruise From **26 August** To **06 September 2013**

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 research group on Fisheries Biology 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. All fish species, and all commercial invertebrates are also measured for length, and individual weights are recorded for all commercial species. For cod, plaice, sole, turbot and brill, otoliths are taken for age determination (4 otoliths per cm size class within each of the 14 visited ICES rectangles). 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 Annex: chart + positions in Table 1**

5. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radioactivity / Isotope ....

**Fish and commercial invertebrates**

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

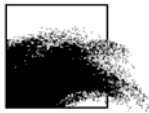
**Beam trawling**

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

Dates Laying	Recovery	Description	Latitude	Longitude
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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

**RV 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, 2010/21, 2011/22 and 2012/22**

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

**ICES. 2008. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2008/LRC:10.**

**ICES. 2009. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2009/LRC:04.**

**ICES. 2010. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2010/SSGESST:17.**

**ICES. 2011. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2011/SSGESST:14.**

**ICES. 2012. Report of the Working Group on Beam Trawl Surveys (WGBEAM). ICES CM 2012/SSGESST:11.**

**Anon., 2008. Technical Report on the Belgian National Data Gathering Program 2007.**

**Anon., 2009. Technical Report on the Belgian National Data Gathering Program 2008.**

**Anon., 2010. Technical Report on the Belgian National Data Gathering Program 2009.**

**Anon., 2011. Technical Report on the Belgian National Data Gathering Program 2010.**

**Anon., 2012. Technical Report on the Belgian National Data Gathering Program 2011.**

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.

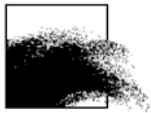
**Yes**

(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, cfr. 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 1 month by request to the chief scientist**

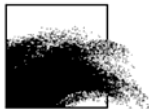


## **Part C: SCIENTIFIC EQUIPMENT**

COASTAL STATE :                    **UNITED KINGDOM**

*(Indicate "YES" or "NO")*

<u>LIST SCIENTIFIC WORK BY FUNCTION</u>				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			
<b>4 m beam trawl with chain net &amp; CTD</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>

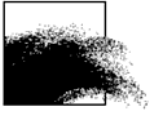


## **Part C: SCIENTIFIC EQUIPMENT**

COASTAL STATE :                    **FRANCE**

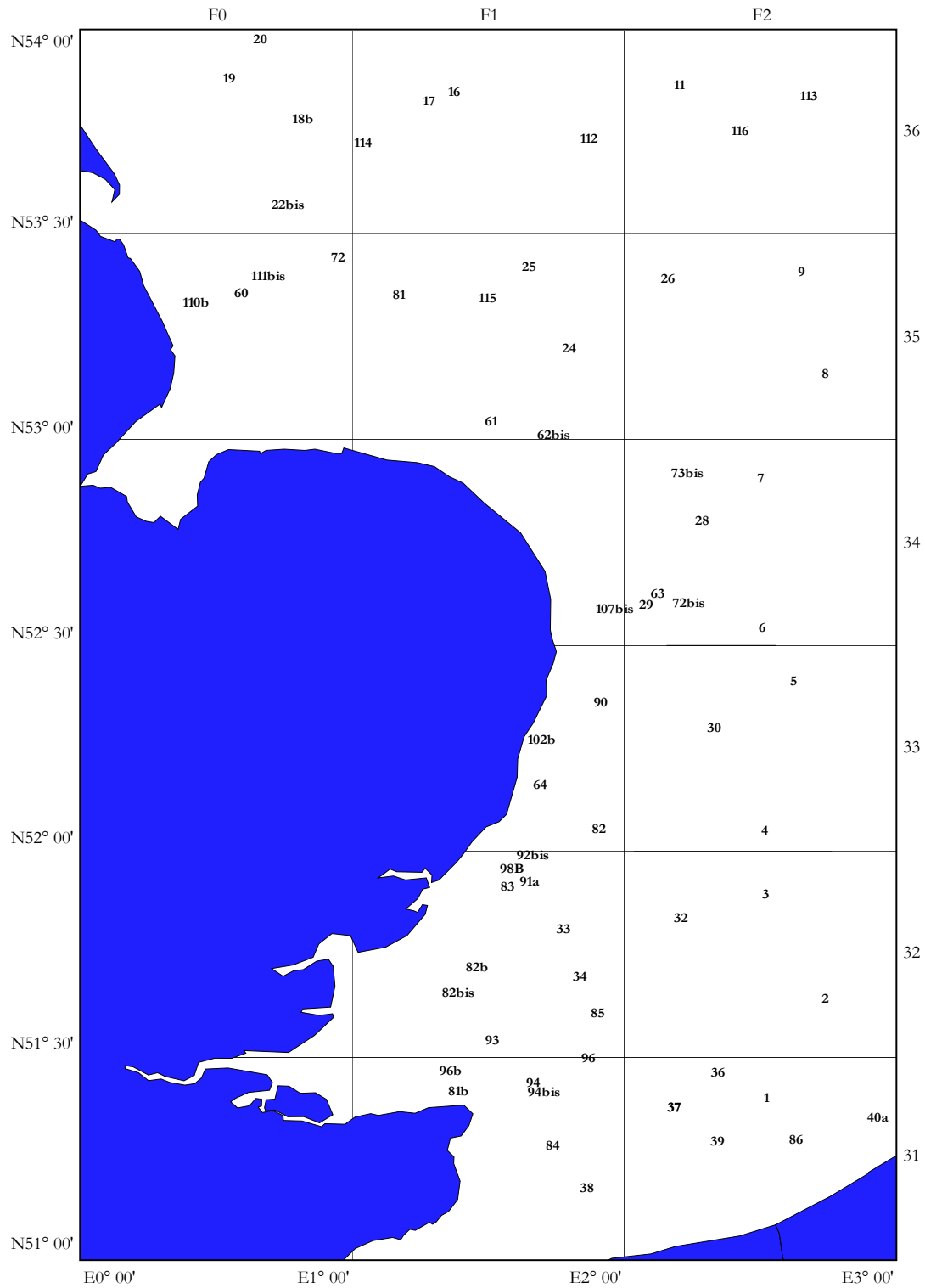
*(Indicate "YES" or "NO")*

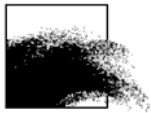
<u>LIST SCIENTIFIC WORK BY FUNCTION</u>				DISTANCE FROM COAST		
				WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
EG. MAGNETOMETRY : GRAVITY DIVING : SEISMICS: BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V. : 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			
<b>4 m beam trawl with chain net &amp; CTD</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>



## ANNEX

### RV Belgica research cruise 2013/23ab: chart

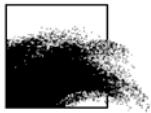




**RV Belgica research cruise 2013/23a-b : Table 1 (positions)**

Station	Position	°Latitude	'Latitude	°Longitude	'Longitude	Latitude (deci.)	Longitude (deci)
40a	51°21.30N-002°55.82E	51	21.30	2	55.82	51,36	2,93
86	51°18.10N-002°37.87E	51	18.10	2	37.87	51,30	2,63
39	51°17.80N-002°20.50E	51	17.80	2	20.50	51,30	2,34
1	51°24.10N-002°31.37E	51	24.10	2	31.37	51,40	2,52
36	51°27.80N-002°20.67E	51	27.80	2	20.67	51,46	2,34
37	51°22.75N-002°11.01E	51	22.75	2	11.01	51,38	2,18
2	51°38.52N-002°44.35E	51	38.52	2	44.35	51,64	2,74
3	51°53.75N-002°31.20E	51	53.75	2	31.20	51,90	2,52
4	52°03.03N-002°30.92E	52	03.03	2	30.92	52,05	2,52
32	51°50.37N-002°12.46E	51	50.37	2	12.46	51,84	2,21
37	51°22.75N-002°11.02E	51	22.75	2	11.02	51,38	2,18
38	51°11.02N-001°51.75E	51	11.02	1	51.75	51,18	1,86
84	51°17.20N-001°44.19E	51	17.20	1	44.19	51,29	1,74
96	51°29.93N-001°52.10E	51	29.93	1	52.10	51,50	1,87
94	51°26.33N-001°39.88E	51	26.33	1	39.88	51,44	1,66
94bis	51°25.00N-001°42.31E	51	25.00	1	42.31	51,42	1,71
93	51°32.47N-001°30.89E	51	32.47	1	30.89	51,54	1,51
81b	51°25.14N-001°23.47E	51	25.14	1	23.47	51,42	1,39
96b	51°28.10N-001°21.66E	51	28.10	1	21.66	51,47	1,36
82b	51°43.15N-001°27.47E	51	43.15	1	27.47	51,72	1,46
82bis	51°39.50N-001°23.37E	51	39.50	1	23.37	51,66	1,39
85	51°36.50N-001°54.17E	51	36.50	1	54.17	51,61	1,90
34	51°41.74N-001°50.19E	51	41.74	1	50.19	51,70	1,84
33	51°48.66N-001°46.59E	51	48.66	1	46.59	51,81	1,78
91a	51°55.69N-001°39.16E	51	55.69	1	39.16	51,93	1,65
83	51°54.90N-001°34.26E	51	54.90	1	34.26	51,92	1,57
98B	51°57.47N-001°35.27E	51	57.47	1	35.27	51,96	1,59
92bis	51°59.48N-001°39.86E	51	59.48	1	39.86	51,99	1,66
81	53°21.08N-001°10.38E	53	21.08	1	10.38	53,35	1,17
82	52°03.36N-001°54.37E	52	03.36	1	54.37	52,06	1,91
64	52°09.72N-001°41.45E	52	09.72	1	41.45	52,16	1,69
102b	52°16.30N-001°41.79E	52	16.30	1	41.79	52,27	1,70
90	52°21.79N-001°54.79E	52	21.79	1	54.79	52,36	1,91
107bis	52°35.36N-001°57.96E	52	35.36	1	57.96	52,59	1,97
29	52°35.91N-002°04.80E	52	35.91	2	04.80	52,60	2,08
63	52°37.50N-002°07.38E	52	37.50	2	07.38	52,63	2,12
30	52°18.05N-002°19.83E	52	18.05	2	19.83	52,30	2,33
5	52°24.83N-002°37.32E	52	24.83	2	37.32	52,41	2,62
6	52°32.66N-002°30.36E	52	32.66	2	30.36	52,54	2,51





28	52°48.26N-002°17.18E	52	48.26	2	17.18	52,80	2,29
73bis	52°55.15N-002°13.89E	52	55.15	2	13.89	52,92	2,23
7	52°54.40N-002°30.07E	52	54.40	2	30.07	52,91	2,50
72bis	52°36.26N-002°14.19E	52	36.26	2	14.19	52,60	2,24
62bis	53°00.64N-001°44.44E	53	00.64	1	44.44	53,01	1,74
61	53°02.67N-001°30.67E	53	02.67	1	30.67	53,04	1,51
8	53°09.63N-002°44.35E	53	09.63	2	44.35	53,16	2,74
9	53°24.45N-002°39.10E	53	24.45	2	39.10	53,41	2,65
116	53°45.00N-002°25.61E	53	45.00	2	25.61	53,75	2,43
113	53°50.00N-002°40.79E	53	50.00	2	40.79	53,83	2,68
11	53°51.66N-002°12.19E	53	51.66	2	12.19	53,86	2,20
112	53°43.78N-001°52.29E	53	43.78	1	52.29	53,73	1,87
16	53°50.62N-001°22.57E	53	50.62	1	22.57	53,84	1,38
17	53°49.28N-001°17.05E	53	49.28	1	17.05	53,82	1,28
114	53°43.22N-001°02.50E	53	43.22	1	02.50	53,72	1,04
24	53°13.32N-001°47.82E	53	13.32	1	47.82	53,22	1,80
25	53°25.24N-001°38.99E	53	25.24	1	38.99	53,42	1,65
26	53°23.40N-002°09.60E	53	23.40	2	09.60	53,39	2,16
115	53°20.55N-001°29.95E	53	20.55	1	29.95	53,34	1,50
18b	53°46.66N-000°49.14E	53	46.66	0	49.14	53,78	0,82
19	53°52.61N-000°32.92E	53	52.61	0	32.92	53,88	0,55
20	53°59.43N-000°39.38E	53	59.43	0	39.38	53,99	0,66
22bis	53°34.16N-000°45.85E	53	34.16	0	45.85	53,57	0,76
111bis	53°23.81N-000°41.72E	53	23.81	0	41.72	53,40	0,70
72	53°26.52N-000°56.87E	53	26.52	0	56.87	53,44	0,95
60	53°21.39N-000°35.58E	53	21.39	0	35.58	53,36	0,59
110b	53°19.96N-000°25.64E	53	19.96	0	25.64	53,33	0,43