

**APPLICATION FOR THE CONSENT TO CONDUCT MARINE SCIENTIFIC
RESEARCH IN AREAS UNDER NATIONAL JURISDICTION OF THE UNITED
KINGDOM**

Date: 18th January, 2013

1. General information

1.1 Cruise name and/or number:

CE13012 - BSH MONITORING CRUISE NO.3 (North Sea Summer Survey)

1.2 Sponsoring institution:

Name: Federal Maritime and Hydrographic Agency (BSH)

Address: 20305 Hamburg, P.O. Box 301220, Germany

Name of Chief Executive:

1.3 Scientist in charge of the project:

Name: Holger Klein

Address:

Federal Maritime and Hydrographic Agency
20305 Hamburg
P.O.Box 301220
GERMANY

Telephone: +49 (0) 40 3190-4300

Telefax: +49 (0) 40 3190-5000

1.4 Scientist(s) from the UNITED KINGDOM involved in the planning of the project

1.5 Submitting officer:

Name and address: Marine Institute, Renville , Oranmore, Galway

Country: Ireland

Telephone: +353 91 387507

Telefax: +353 91 387200

2. Description of project (Attach additional pages as necessary)

2.1 Nature of objectives of the project:

North Sea Summer Survey

2.2 Relevant previous or future research cruises:

Cruise 307 of R/V Gauss, July 2001
Cruise 385 of R/V Gauss, July 2002
Cruise 405 of R/V Gauss, August 2003
Cruise 425 of R/V Gauss, August 2004
Cruise 446 of R/V Gauss, August 2005
Cruise 463 of R/V Gauss, August 2006
Cruise 273 of R/V Pelagia, August 2007
Cruise 293 of R/V Pelagia, July/August 2008
Cruise 311 of R/V Pelagia, August/September 2009
Cruise 323 of R/V Pelagia, August/September 2010
Cruise 11010 of R/V Celtic Explorer, August 2011
Cruise 12011 of R/V Celtic Explorer, August 2012

2.3 Previously published research data relating to the project:

Cruise summary reports of above mentioned cruises, ICES Report on Ocean Climate

3. Methods and means to be used

3.1 Particulars of vessel

Name: Celtic Explorer
Nationality: Irish

Owner: Marine Institute

Overall length: 65.5m
Maximum draught: 5.7m
Net tonnage: 727
Propulsion: 2 x 1530 KW, 1000Rpm, 1 x 1020 KW, 1000 Rpm
Cruising speed: 10 Kts
Call sign: EI GB
Method and capability of communication –
Vsatsatellite Broadband
Imarsat –c
HF
VHF
Mini –M

Name of master: Dennis Rowan/Antony Hobin

Number of crew: 15

Number of scientists on board: 14

3.2 Aircraft or other craft to be used in the project:

n/a

3.3 Particulars of methods and scientific instruments

Marine scientific equipment used	water depth (m)	fisheries research	distance of research to coast in nautical miles			
			< 3	3-12	12-50	50-200
CTD with rosette Sampler, O ₂ - and Transmission sensor, water samples with glass bottles and 270-l-Samplers	Full depth	no	no)	yes	yes	yes
vessel mounted ADCP	max. 100	no	no	yes	yes	yes
Thermosalinograph	5	no	yes	yes	yes	yes
Towed CTD-System	max. 100	no	no	yes	yes	yes
Secchi-Depth	variable	no	yes	yes	yes	yes
Air Sampler	Above sea level	no	yes	yes	yes	yes

3.4 Indicate whether harmful substances will be used:

See attached list!

3.5 Indicate whether drilling will be carried out:

n/a

3.6 Indicate whether explosives will be used:

n/a

4. Installations and equipment

Details of installations and equipment (dates of laying, servicing, recovery, exact locations and depth):

None

5. Geographical areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude):

North Sea and English Channel
47.0°N – 62.5°N
07.0°W – 08.0°E

5.2 Attach chart(s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intended stations, the tracks of survey lines, and the locations of installations and equipment.

see below!

6. Dates

6.1 Expected dates of first entry into final departure from research area of the research vessel:

Provisional dates:

Start: 10/08/2013

Finish: 17/09/2013

6.2 Indicate if multiple entry is expected: Multiple entry, see map attached

7. Port calls

7.1 Dates and names of intended ports of calls in the UNITED KINGDOM:

none

7.2 Any special logistical at ports of call:

7.3 Names/ Address / Telephone of shipping agent (if available)

8. Participation

8.1 Extent to which the UNITED KINGDOM will be enabled to participate to be represented in research project:

8.2 Proposed dates and ports for embarkation / disembarkation:

Hamburg, August 10th / Bergen, September 4th, 2013

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9. Access to data, samples and research results

9.1 Expected dates of submission to the UNITED KINGDOM preliminary reports which should include the expected dates of submission of the final results:

Cruise Report, about October 2013.

9.2 Proposed means for access by the UNITED KINGDOM to data and samples:

Data access via DOD (German Oceanographic Data Centre):

http://www.bsh.de/en/Marine_data/Observations/DOD_Data_Centre/index.jsp

9.3 Proposed means to provide the UNITED KINGDOM with assessment of data, samples and research results or provide assistance in their assessment or interpretation:

Cruise report, ICES report on ocean climate,

9.4 Proposed means of making research results internationally available:

Research data from intended cruise will be available at the ICES and German Oceanographic Data Center (DOD) (see above)

References

Yearly cruises to the North Sea of the Federal Maritime and Hydrographic Agency:
<http://www.bsh.de/de/Meeresdaten/Beobachtungen/MURSYS-Umweltreportsystem/index.jsp>

10. Scientific Equipment

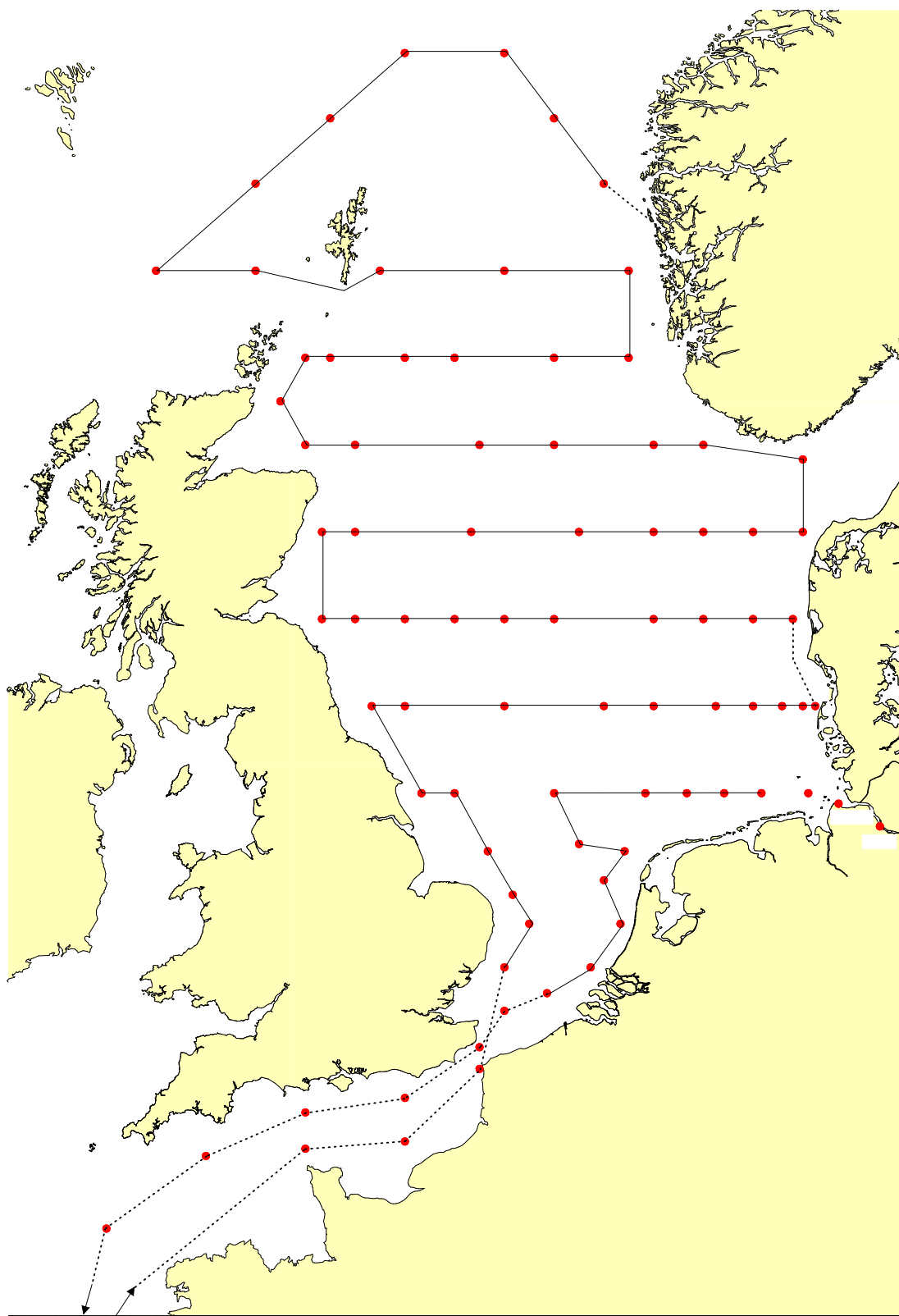
COMPLETE THE FOLLOWING TABLE-
SEPARATE PAGE FOR EACH COSTAL STATE:
INDICATE YES OR NO

Marine scientific equipment used	water depth (m)	fisheries research	distance of research to coast in nautical miles			
			< 3	3-12	12-50	50-200
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Thermosalinograph	5	no	yes	yes	yes	yes
Towed CTD-System	max. 100	no	no	yes	yes	yes
Secchi-Depth	variable	no	yes	yes	yes	yes
Air sampler	Above sea level	no	yes	yes	yes	yes

(On behalf of the Principle Scientist)

Dated -----

Stations Leg A, Hamburg – Bergen



Station	Lat°	Lat'	N/S	Lon°	Lon'	E/W
Stade	53	37,1	N	9	32,8	E
Medem	53	52,8	N	8	43,0	E
GN003	54	0,0	N	8	6,5	E
GN003A	54	0,0	N	7	10,0	E
GN007	54	0,0	N	6	25,0	E
GN007A	54	0,0	N	5	40,0	E
GN008	54	0,0	N	4	50,0	E
GN009	54	0,0	N	3	0,0	E
GN009A	53	25,0	N	3	30,0	E
GN009B	53	20,0	N	4	25,0	E
GN010	53	0,0	N	4	0,0	E
GN011	52	30,0	N	4	20,0	E
GN012	52	0,0	N	3	44,0	E
GN013	51	42,2	N	2	51,4	E
GN901	51	30,0	N	2	0,0	E
GN902	51	5,0	N	1	30,0	E
GN903	50	30,0	N	0	0,0	E
GN904	50	20,0	N	2	0,0	W
GN905	49	50,0	N	4	0,0	W
GN906	49	0,0	N	6	0,0	W
GN920	47	0,0	N	7	0,0	W
GN909	49	55,0	N	2	0,0	W
GN910	50	0,0	N	0	0,0	E
GN911	50	50,0	N	1	30,0	E
GN014	52	0,0	N	2	0,0	E
GN015	52	30,0	N	2	30,0	E
GN015B	52	50,0	N	2	10,0	E
GN016	53	20,0	N	1	40,0	E
GN017	54	0,0	N	1	0,0	E
GN017A	54	0,0	N	0	20,0	E
GN018A	55	0,0	N	0	40,0	W
GN018	55	0,0	N	0	0,0	E
GN019	55	0,0	N	2	0,0	E
GN020	55	0,0	N	4	0,0	E
GN021	55	0,0	N	5	0,0	E
GN022	55	0,0	N	6	15,0	E
GN022A	55	0,0	N	7	0,0	E
GN023	55	0,0	N	7	35,0	E
GN024	55	0,0	N	8	0,0	E
GN025	55	0,0	N	8	15,0	E
GN026	56	0,0	N	7	48,0	E
GN026A	56	0,0	N	7	0,0	E
GN027	56	0,0	N	6	0,0	E
GN028	56	0,0	N	5	0,0	E
GN029	56	0,0	N	3	0,0	E
GN030	56	0,0	N	2	0,0	E
GN031	56	0,0	N	1	0,0	E
GN032	56	0,0	N	0	0,0	E
GN033	56	0,0	N	1	0,0	W
GN033A	56	0,0	N	1	40,0	W
GN034A	57	0,0	N	1	40,0	W
GN034	57	0,0	N	1	0,0	W
GN035	57	0,0	N	1	20,0	E
GN036	57	0,0	N	3	30,0	E
GN037	57	0,0	N	5	0,0	E

