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NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL
PART A

1. Name of ship *FRV "Walther Herwig III"*
2. Dates of cruise from 24/03/2010 to 30/04/2010
3. Operating Authority *Bundesanstalt für Landwirtschaft und Ernährung
Haubachstraße 86
22765 HAMBURG
Telephone +49 (0)40 306860 534
Telefax +49 (0)40 306860 66
e-mail: Niels.grube@ble.de*
4. Owner (if different from para 3) *Bundesrepublik Deutschland*
5. Particulars of ship:

| | |
|-----------------|---------------------------------|
| Name | <i>FRV "Walther Herwig III"</i> |
| Nationality | <i>German</i> |
| Overall length | <i>64,50 metres</i> |
| Maximal draught | <i>6,20 metres</i> |
| BRZ | <i>ca. 639 BRZ</i> |
| Propulsion | <i>Diesel Electric</i> |
| Call Sign | <i>DBFR</i> |
| Telephone | <i>mab +49-(0)171-532 7587</i> |
| | <i>Sat 00870 763936068</i> |
| Telefax | <i>Sat 00870 763936070</i> |
6. Crew

| | |
|----------------|-------------------------------|
| Name of Master | <i>H. O. Janßen or deputy</i> |
| No of Crew | <i>21</i> |
7. Scientific Personnel

| | |
|-----------------------|---|
| Scientist in charge : | <i>Dipl. Biol. Jens Ulleweit</i> |
| Name and address : | <i>vTI – Institut für Seefischerei Palmallee 9, 22767 Hamburg</i> |
| Phone : | <i>+49 40 38905 217</i> |
| Fax : | <i>+49 40 38905 263</i> |
| e-mail: | <i>: jens.ulleweit@vti.bund.de</i> |
| No of Scientists : | <i>12</i> |
8. Geographical area in which ship will operate (with reference to latitude and longitude)
60°N to 47°N; 16°W to 3°W (see map attached)
9. Brief description of purpose of cruise
Cruise is part of the ICES-coordinated international mackerel and horse mackerel egg survey. The survey provides fisheries independent data which are used for the assessment of the mackerel and horse mackerel stocks. Countries participating are: UK (Scotland), Ireland, the Netherlands, Germany, Spain, Portugal and Faroe Islands.
10. Dates and names of intended ports of call
depending on progress: Plymouth, approx. 10.04.-14.04.2010 for 2 days,
11. Any special logistic requirement at ports of call
none

DETAIL

PART B

1. Name of research ship *FRV "Walther Herwig III"* Cruise No. 332
2. Dates of cruise from 24/03/2010 to 30/04/2010
3. Purpose of research and general operational methods.
The cruise is a part of the international mackerel and horse mackerel egg survey. The main objective of the survey is to produce both an index and a direct estimate of the biomass of the north east Atlantic mackerel stock and the southern and western horse mackerel stocks by sampling mackerel and horse mackerel eggs and parental animals. The concentration of the spawned eggs is correlated with the number of parental fish having produced the eggs. For planktonic fishing a modified Gulf Sampler will be used ("Nackthai"). The parental animals are sampled by trawl gear for fecundity estimates.
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.
It is intended to take one plankton sample in each of the statistical rectangles within the shaded area of the attached map. The exact location of the station is, if possible, set in the middle of the rectangle. If not, stations are located in the rectangle according to nautical requirements. Trawl station will be set according to the distribution of the fish and according to the recordings made during the cruise. At each station CTD recordings are made simultaneously during plankton collection and additional hydrography (CTD) and water samples are taken after each fishing station.
5. Types of samples required e.g. Geological/Water/Plankton/Fish/Radioactivity/Isotope
Plankton samples, fish samples, water samples, CTD
and methods by which samples will be obtained (including/dredging/coring/drilling).
Plankton samples taken by GULF sampler, for pelagic fishing the "PSN 205" or a 1400# pelagic trawl (See charts of nets attached), for bottom fishing the trawl net "Grande Overture General (GOV) will be used, water samples, CTD
6. Details of moored equipment:
none

Dates:

| <u>Deployment</u> | <u>tentative</u> <u>Recovery</u> | <u>Description</u> | <u>Latitude</u> | <u>Longitude</u> |
|-------------------|-------------------------------------|--------------------|-----------------|------------------|
| <i>none</i> | | | | |

7. Explosives: *None*
- (a) Type and Trade Name
- (b) Chemical content
- (c) Depth of Trade class and stowage
- (d) Size
- (e) Depth of detonation
- (f) Frequency of detonation
- (g) Position in latitude and longitude
- (h) Dates of detonation
8. Detail and reference of
- (a) Any relevant previous/future cruises
The same type of cruise was conducted 1998, 2001, 2004 and 2007 in the same area with the same methods. The ICES co-ordinated survey is carried out every third year, covering the same area. After 2010 the next survey will be conducted in 2013.
- (b) Any previously published research data relating to the proposed cruise. (Attach separate sheet if necessary)
Report of the working group on mackerel and horse mackerel egg surveys, Pelagic Fish Committee, ICES CM 1996/H:2
Report of the working group on mackerel and horse mackerel egg surveys, Pelagic Fish Committee, ICES CM 1997/H:4
Report of the Working Group on Mackerel and Horse Mackerel Egg Surveys, (Hamburg 1999), Living Resources Committee, ICES CM 1999/G:5.
Report of the working group on mackerel and horse mackerel egg surveys (Santander 2000), Living Resources Committee, ICES CM 2000/G:01
Report of the working group on mackerel and horse mackerel egg surveys (Dublin 2002) Living Resources Committee, ICES CM 2002/G:06
Report of the working group on mackerel and horse mackerel egg surveys (Lisbon 2003), Living Resources Committee, ICES CM 2003/G:7
Report of the working group on mackerel and horse mackerel egg surveys (Bergen 2005), Living Resources Committee, ICES CM 2005/G:09
Report of the working group on mackerel and horse mackerel egg surveys (Vigo 2006), Living Resources Committee, ICES CM 2006/LRC:09
Report of the working group on mackerel and horse mackerel egg surveys (Hamburg 2009), Living Resources Committee, ICES CM 2009/LRC:09
9. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.
- *Finlay Burns, FRS Aberdeen, UK Scotland*
 - *Leonie Dransfeld, Marine Institute, Galway, Ireland*
 - *Brendan o'Hea, Marine Institute, Galway, Ireland*
 - *Steve Milligan, CEFAS, Lowestoft, England*
 - *Peter Withames, CEFAS, Lowestoft, England*
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.
if spare accommodation is available, according to previous agreement.
Previous communication is required.
- (c) When research data from the intended cruise is likely to be made available to the coastal state and if so by what means.
Cruise summary report will be available about 4 weeks after the trip

SCIENTIFIC EQUIPMENT

COASTAL STATE *United Kingdom*

Plymouth

11. Complete the following table - SEPARATE COPY FOR EACH COASTAL STATE
(INDICATE 'YES' OR 'NO')

| List of all major Marine Scientific Equipment it is proposed to use and indicate waters in which it will be deployed. | Fisheries Research Within Fishing Limits | Research concerning Continental Shelf out to coastal state's margin | DISTANCE FROM COAST | | | |
|--|--|---|---------------------|-------------------|--------------------|---------------------|
| | | | Within 3 NM | Between 3 - 12 NM | Between 12 - 50 NM | Between 50 - 200 NM |
| <i>pelagic trawl or bottom trawl (GOV) (Approx. 20 trawling stations in UK waters, mainly above the 200m shelf edge, depending on found fish concentrations)</i> | <i>Yes</i> | <i>No</i> | <i>No</i> | <i>Yes</i> | <i>Yes</i> | <i>Yes</i> |
| <i>Gulf plankton sampler (modified, maximum sampling depth 200m or 5m above ground, see also part B 4.)</i> | <i>Yes</i> | <i>No</i> | <i>No</i> | <i>Yes</i> | <i>Yes</i> | <i>Yes</i> |
| <i>CTD-probe with water sampler (parallel to trawling and plankton stations, see also part B 4.)</i> | <i>Yes</i> | <i>No</i> | <i>No</i> | <i>Yes</i> | <i>Yes</i> | <i>Yes</i> |
| | | | | | | |
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| | | | | | | |

June Ullmer
(On behalf of the Principal Scientist)
Dated: *26/8/2009*

Operating Authority: _____

N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES / AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED THE COASTAL STATE'S AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.