

Notification of proposed research cruise

A. GENERAL

1. Name of research ship FFS "Walther Herwig III" Cruise No. WH 341
2. Date of cruise From 20.01.2011 To 18.02.2011
3. Operating Authority *Bundesanstalt für Landwirtschaft und Ernährung, Referat 524
Haubachstr. 86, 22765 Hamburg*
Telephone +49 40 306860550 /
4. Owner (if different from para. 3) Bundesrepublik Deutschland
5. Particulars of ship
- | | |
|---|--|
| Name | <u>FFS "Walther Herwig III"</u> |
| Nationality | <u>Federal Republic of Germany</u> |
| Overall length (metres) | <u>64.50</u> |
| Maximum draught (metres) | <u>6.20</u> |
| Nett tonnage | <u>2131 BRZ</u> |
| Method of propulsion e.g. Steam | <u>Turbine/Diesel/ Diesel Electric</u> |
| Call sign | <u>DBFR</u> |
| Registered port & number (if registered fishing vessel) | |
6. Crew
- | | |
|----------------|------------------------------------|
| Name of Master | <u>H.-O. Janssen or J. Vandrei</u> |
| Number of Crew | <u>22</u> |
7. Scientific personnel
- | | |
|-------------------------|--|
| Name and Address of | <u>Dr. Gerd Wegner</u> |
| Scientist - in - Charge | <i>vTI - Institut für Seefischerei
Palmaille 9
D-22767 Hamburg</i> |
| e-mail | <u>gerd.wegner@vti.bund.de</u> |
| Tel./FAX No. | <u>+49 40 38905-224 / +49 40 38905-263</u> |
| Number of Scientists | <u>11</u> |
8. Geographical area in which ship will operate (with reference in latitude and longitude):
North Sea (see attached map, please)
9. Brief description of purpose of cruise:
International Bottom Trawl Survey (IBTS) 2011(I) of ICES
10. Dates and names of intended ports of call:
11. Any special requirements at ports of call: *None (mid cruise break)*

B. DETAIL

1. Name of research ship FFS "Walther Herwig III" Cruise No. WH 341
2. Dates of cruise From 20.01.2011 To 18.02.2011

3. Purpose of research and general operational methods

Participation in the ICES coordinated International Bottom Trawl Survey (IBTS) 2011(I) in the North Sea.

1. *Trawling (net: Grande Ouverture Verticale (GOV), standard net approved by ICES, codend 10 mm)*
2. *Biochemical investigations*
3. *Plankton investigations*
4. *Hydrographic investigations*

4. Please attach chart showing, at the appropriate scale, the geographical area of the intended work, the areas to be fished, positions of intended stations, tracks of survey lines, positions of moored / seabed equipment etc.

North Sea from 54° N to 62° N, especially in those squares assigned to Germany by ICES (see attached map, please)

5a. Types of samples required e.g. Geological / Water / Plankton /Fish. If fishing gear is to be used please indicate what fish stocks will be worked, the maximum quantity required of each species /stock and the quantity of fish to be retained on board.

Fish-, plankton-, water samples

All fish stocks being worked on according to the ICES manual. No fish is retained on board except scientific samples. Small amounts of fish for direct consumption on board and/or some homepacks for the crew.

5b. Methods by which samples will be obtained (e.g. dredging / coring / drilling / fishing etc.).

Fishing, Plankton net hauling, CTD profiling

6a. Details of moored equipment:

Dates: Laying Recovery Description Latitude Longitude

None

6b. Full description of ALL fishing gear to be used (e.g. bottom trawl, mesh size, attachments etc.).

See attached drawings, please

7. ANY HAZARDOUS MATERIALS (e.g. Chemicals, Explosives, Gases, Isotopes, etc.)
(Use separate sheet if necessary)

(a) Type and trade name	<u>None</u>
(b) Chemical content (& formula)	<u>None</u>
(c) IMO IMDG code (Reference & UN No.)	<u>None</u>
(d) Quantity & method of stowage on board	<u>None</u>
(e) If explosives give date (s) of detonation	<u>None</u>
- Method of detonation	<u></u>
- Position of detonation	<u></u>
- Frequency of detonation	<u></u>
- Depth of detonation	<u></u>
- Size of detonation planned	<u></u>

8. Please set out details of:

(a) Any relevant previous / future cruises

Cruise is part of a standard series coordinated by ICES since the middle 1950's

(b) Any previously published research data relating to the proposed cruise.

(Attach separate sheet if necessary)

All data are stored and published in the frame of ICES reports.

9. Names and addresses of scientists in coastal state with whom previous contact has been made.

<i>Denmark:</i>	<i>P. Degnbol, Difmar, Hirtshals; P. Munk, DIFR, Charlottenlund</i>
<i>UK-England:</i>	<i>B. Harley, MAFF, Lowestoft</i>
<i>UK-Scotland:</i>	<i>K. A. Coull, MARLAB, Aberdeen</i>
<i>The Netherlands:</i>	<i>R. ter Hofstede, IMARES, IJmuiden</i>
<i>Norway:</i>	<i>O.M. Smedstad, IMR, Bergen-Nordnes</i>

10. State:

(a) Whether visits to the ship in port by coastal state scientists will be acceptable: YES

(b) Whether it will be acceptable to carry on board an observer for any part of the cruise: YES

Please contact chief scientist well in time

(If 'YES' please indicate possible dates and ports of embarkation /disembarkation) *Bremerhaven, 20.01.2011; Lerwick, between 02. and 06.02.2011; Bremerhaven 18.02.2011.*

(c) When research data from the intended cruise is likely to be made available to the coastal state authorities and by what means.

If the report will not be available within 12 months of the cruise, please set out an explanation for the delay indicating when the report will be available.

Generally, all data and information are given directly to ICES for further treatment about 4 weeks after the trip.

Further on:

1. Cruise summary report through official channels; English summary will be available about 4 weeks after the trip

2. Short report latest at the end of April 2011

3. ICES Council Meeting Report, Sept./Oct. 2011

SCIENTIFIC EQUIPMENT

Coastal State Norway

Complete the following table

Port call: None

Indicate „yes“ or „no“ other than for fishing gear when the total hours of fishing in each zone should indicated

LIST OF SCIENTIFIC WORK BY FUNCTION e.g. Magnetometry Gravity Diving Seismics Bathymetry Seabed sampling Trawling Echo sounding Water sampling U / W TV Moored instruments Towed instruments	Water Column	Fisheries Research within Fishing Limits	Research concerning Continental Shelf out to Coastal State 's margin	Distance from coast		
				Within 4 NM	Between 4-12 NM	Between 12 and 200 NM
<i>Trawling</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>	<i>yes</i>
<i>Ichthyoplankton</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>	<i>yes</i>
<i>Water samples</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>	<i>yes</i>

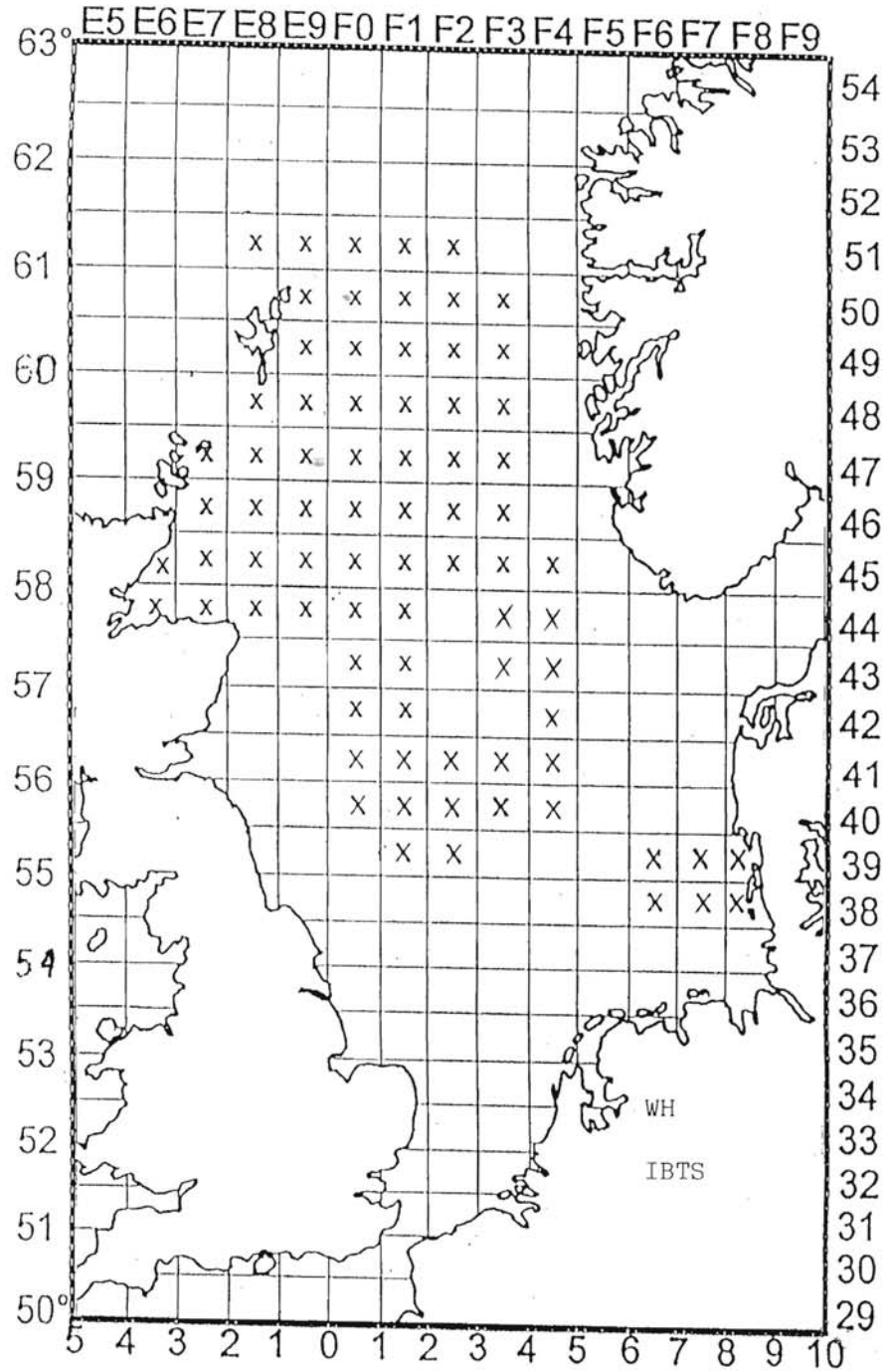


Dated 30.06.2010

(On behalf of the Principal Scientist)

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

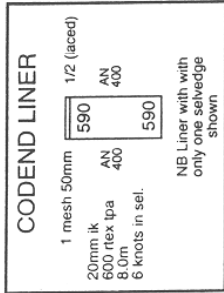
IBTS 2011(I)
Squares assigned to WALTHER HERWIG III



GOV standard fishing gear (trawl construction)

Construction of the 36/47 GOV trawl (adapted from drawings of the Institute des Peches Maritimes, Boulogne/Mer)

Mesh mm kz/ik	Twine tex/mat. (bpa)	Stretched length (m)	Knots selvedge per side	Join ratio	UPPER	LOWER	Join ratio
200kc	3700	8.5	1/1	1/1	Diagram a	Diagram b	1/1
200kc	3700	7.3	6/1	1/1	Diagram c	Diagram d	1/1
200kc	8025	0.6	6/6	1/1			1/1
200kc	3700	5.5	6/6	4/5			4/5
200kc	3700	2.1	6/6	3/4			3/4
160kc	3700	6.5	6/6	2/3			2/3
120kc	2800	6.1	6/6	2/3			2/3
80kc	2800	6.0	6/6	2/3			2/3
50kc	2500	7.8	6/6	1/1			1/1
50DY/ik	2500	1.3	6/6	1/1			1/1
50DY/ik	2500	20.0	6/6				



Headline : 36m (15.50 + 5.00 + 15.50) x 14mm ϕ wire (f/c) served (6/19 - 12/6/1 65.8kg/100m).
Fishingline : 47.20m (21.10 + 5.00 + 21.10) x 22mm ϕ combination wire 6 strand/steel core 54.6kg/100m).
Winglines : Upper 8.2m, Lower 8.2m x 20mm ϕ combination wire (6 strand/steel core - 54.4kg/100m)
a - 7.1m x 14mm ϕ wire (6/19 - 12/6/1 - 65.8kg/100m)
b - 6.7m x 20mm ϕ combination wire (6 strand/steel core - 54.4kg/100m)
c - 5.55m x 20mm ϕ combination wire (6 strand/steel core - 54.4kg/100m)
d - length for length x 22mm ϕ nylon (3 strand - 26kg/100m)

u - Gussets 8025rtex
v - 4 meshes gathered at quarters
w - 200 198
x - 240 238
y - 138 120
z - Joining position for Liner

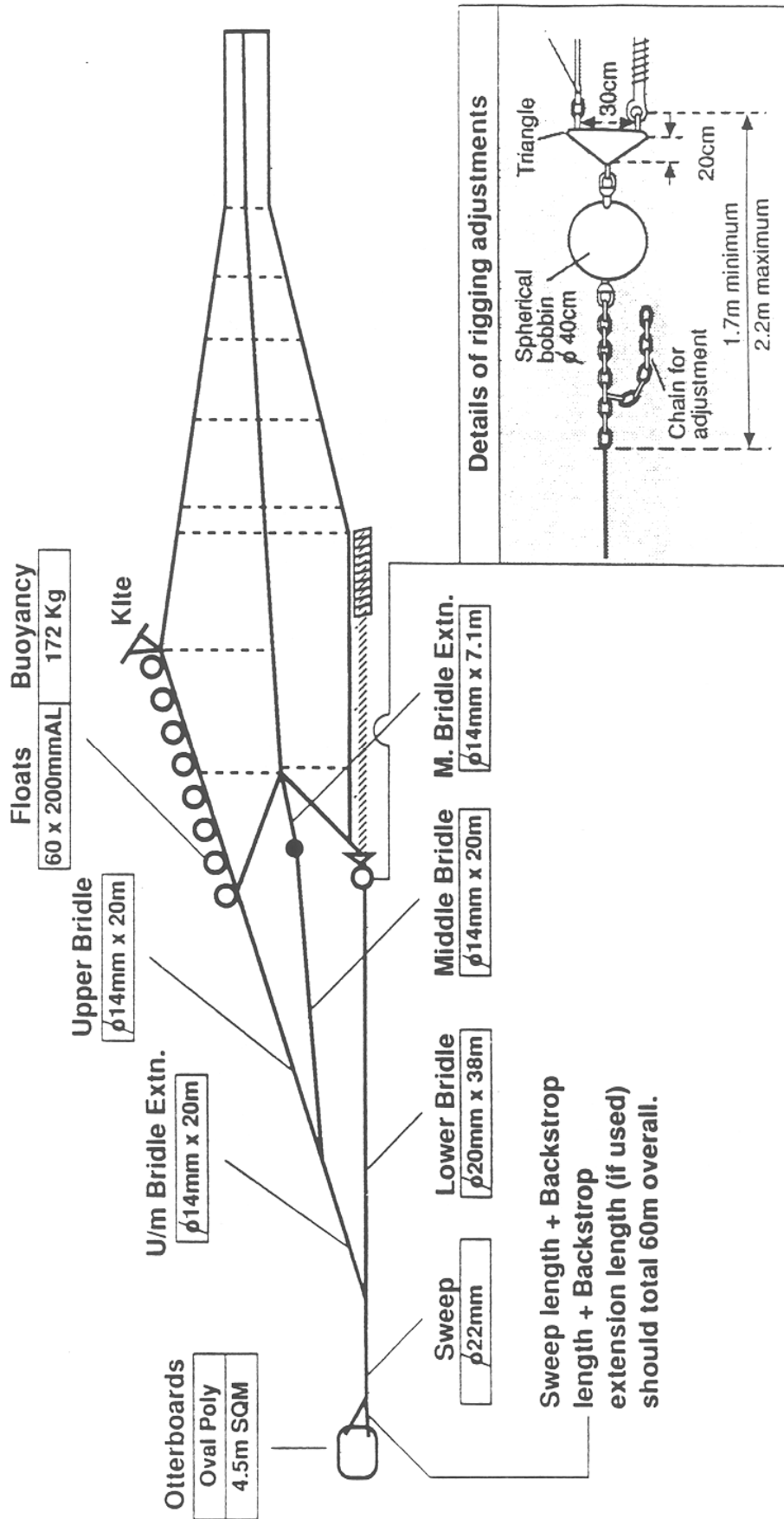
kc = knot centre to knot centre
ik = inside knot: measurement
tpa = polyamide twine/twisted
bpa = polyamide twine/braided
dy = double yarn
 Method of join used, sewing.
 Type of knot, weavers knot.

NOTE TO NETMAKERS

The numbers of meshes shown for netting panel widths do NOT include selvedge meshes. Five meshes (six knots) per selvedge must be added where indicated. Conversely to obtain panel depths one row (1/2 mesh) must be subtracted from each panel as the joining row is included in the number of meshes deep. The total numbers of meshes (width and depth) for each individual panel are set out in GOV 36/47 Groundfish Survey Trawl Checklist (Page 2 of 5).

GOV standard fishing gear (rigging)

GOV 36/47 GROUND FISH SURVEY TRAWL : Overall rigging diagram



MIK plankton net

