

A. GENERAL

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|---|--|---|
| 1. Name of research ship | FRV "Walther Herwig III." | <i>Cruise No. 385</i> |
| 2. Dates of cruise | from ...18.06.2015.....to ...20.07.2015 | |
| 3. Operating Authority | Federal Office for Agriculture and Food
Unit 524
Haubachstr. 86
22765 Hamburg
Telephone +49 40 3068 60 534
Telefax +49 40 3068 60 555 | |
| 4. Owner
(if different from para. 3) | Germany | |
| 5. Particulars of ship | Name | FRV "Walther Herwig III" |
| | Nationality | Federal Republic of Germany |
| | Overall length (metres) | 63.18 |
| | Maximum draught (metres) | 6.20 |
| | Nett tonnage | 639 |
| | Method of propulsion | Diesel/Diesel Electric |
| | Call sign | DBFR |
| | Registered port & number
(if registered fishing vessel) | |
| 6. Crew | Name of Master | <i>Capt H. O. Janßen or deputy</i> |
| | Number of Crew. | 21 |
| 7. Scientific personnel | Name and Address of | Dr. E. Bethke |
| | Scientist-in-Charge | Thünen-Institute of Sea Fisheries
Palmaille 9
D 22767 Hamburg |
| | Telephone. | +49 40 38905203 |
| | Telefax | +49 40 38905264 |
| | Number of Scientists | 12 |
| 8. Geographical area in which ship will operate (with reference in latitude and longitude): | <i>Irminger Sea; East, South and West off Greenland in EEZ, EEZ of Canada
and international waters, 52°-64°N northern latitude, 20°-62°W western longitude</i> | |
| 9. Brief description of purpose of cruise: | Pelagic trawl-acoustic survey targeting oceanic redfish | |
| 10. Dates and names of intended ports of call: | none | |
| 11. Any special requirements at ports of call: | none | |

B. DETAIL

1. Name of research ship FRV "*Walther Herwig III*" Cruise No. 385
2. Dates of cruise from 18.06.2015 to 20.07.2015
3. Purpose of research and general operational methods
Pelagic trawling and acoustic measurements to assess the stock size of oceanic redfish. Oceanographic data collection.
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.

attached chart (Fig. 1) shows the survey area. A planning group meeting, specifying the cruise track in detail, takes place in Copenhagen at the beginning of 2015.

- 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/Water

Redfish exclusive, of which only small scientific samples will be retained on board.

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

Pelagic trawl fishing, trawling will be performed by a GLORIA-type pelagic trawl. Around 20 fishing stations at depth from 200 to 900 m are planned. Water sampler.

- 6a. Details of moored equipment:

Dates:	<u>Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Latitude</u>	<u>Longitude</u>
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none

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

see attached drawing of the GLORIA-type trawl (Fig. 2a and 2b)

7. ANY HAZARDOUS MATERIALS (e.g. chemicals, explosives, gases, isotopes etc.)
(Use separate sheet if necessary)

- | | |
|--|-------------------|
| (a) Type and trade name | Formaldehyde |
| (b) Chemical content (& formula) | CH ₂ O |
| (c) IMO IMDG code (reference & UN No.) | “ |
| (d) Quantity & method of stowage on board | 20 l canister |
| (e) If explosives give date(s) of detonation | none |
| - Method of detonation | “ |
| - Position of detonation | “ |
| - Frequency of detonation | “ |
| - Depth of detonation | “ |
| - Size of detonation planned | “ |

8. Please set out details of:

- (a) Any relevant previous/future cruises
International acoustic survey (Russia, Iceland, Germany, Norway) in June-July 1996, 1999, 2001, 2003, 2005, 2007, 2009, 2011 and 2013
- (b) Any previously published research data relating to the proposed cruise
e.g. See report of the Working Group on Redfish Surveys (WGRS). – ICES CM 2013 / SSGESST: 14 and previous reports available at the home page of the ICES
The name of the working group changed. New reports are available at:
<http://www.ices.dk/publications/library/Pages/default.aspx#k=wgideeps>

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

Kristjan Kristinsson (krik@hafro.is), Iceland
(Chair of the Working Group)

Þorsteinn Sigurðsson Marine Research Institute, Division of Marine Stocks and Fisheries, P.O. Box 1390, Skúlagata 4, 121 Reykjavík, Iceland. Tel. +354 5 520240, Fax +354 5 623790 e-mail: steini@hafro.is

10. State:

- (a) Whether visits to the ship in port by coastal state scientists will be acceptable YES/NO
- (b) Whether it will be acceptable to carry on board an observer for any part of the cruise: YES/NO
(If 'YES' please indicate possible dates and ports of embarkation/disembarkation) Bremerhaven, 18.06.2015/20.07.2015
- (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.

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

SCIENTIFIC EQUIPMENT

Coastal state Iceland

Complete the following table
separate copy for each coastal state

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 3 NM	Between 3-12 NM	Between 12 and 200 NM
Trawling	yes	yes	yes	no	no	yes
Water samples	yes	yes	yes	no	no	yes
Echo sounding	yes	yes	yes	no	no	yes



.....Dated.....25.11.2014.....
(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

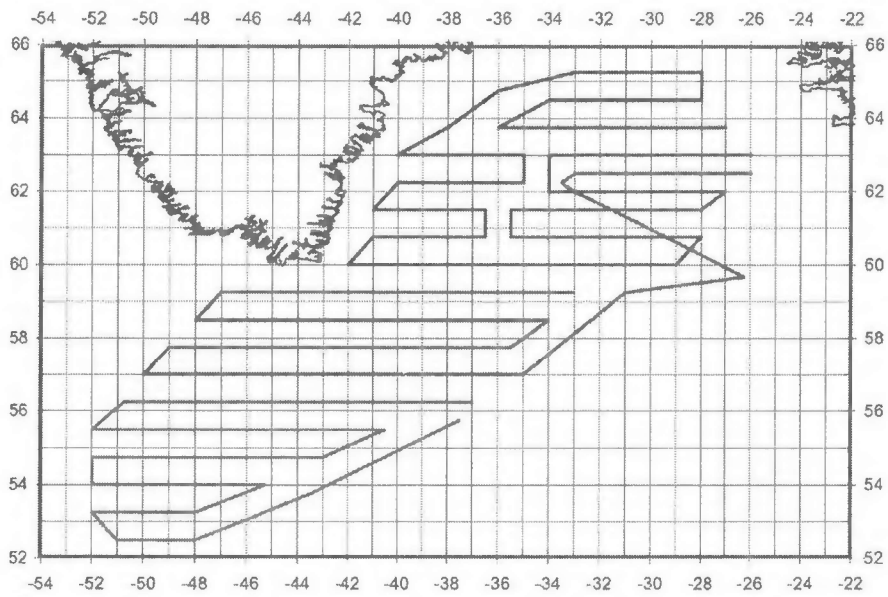
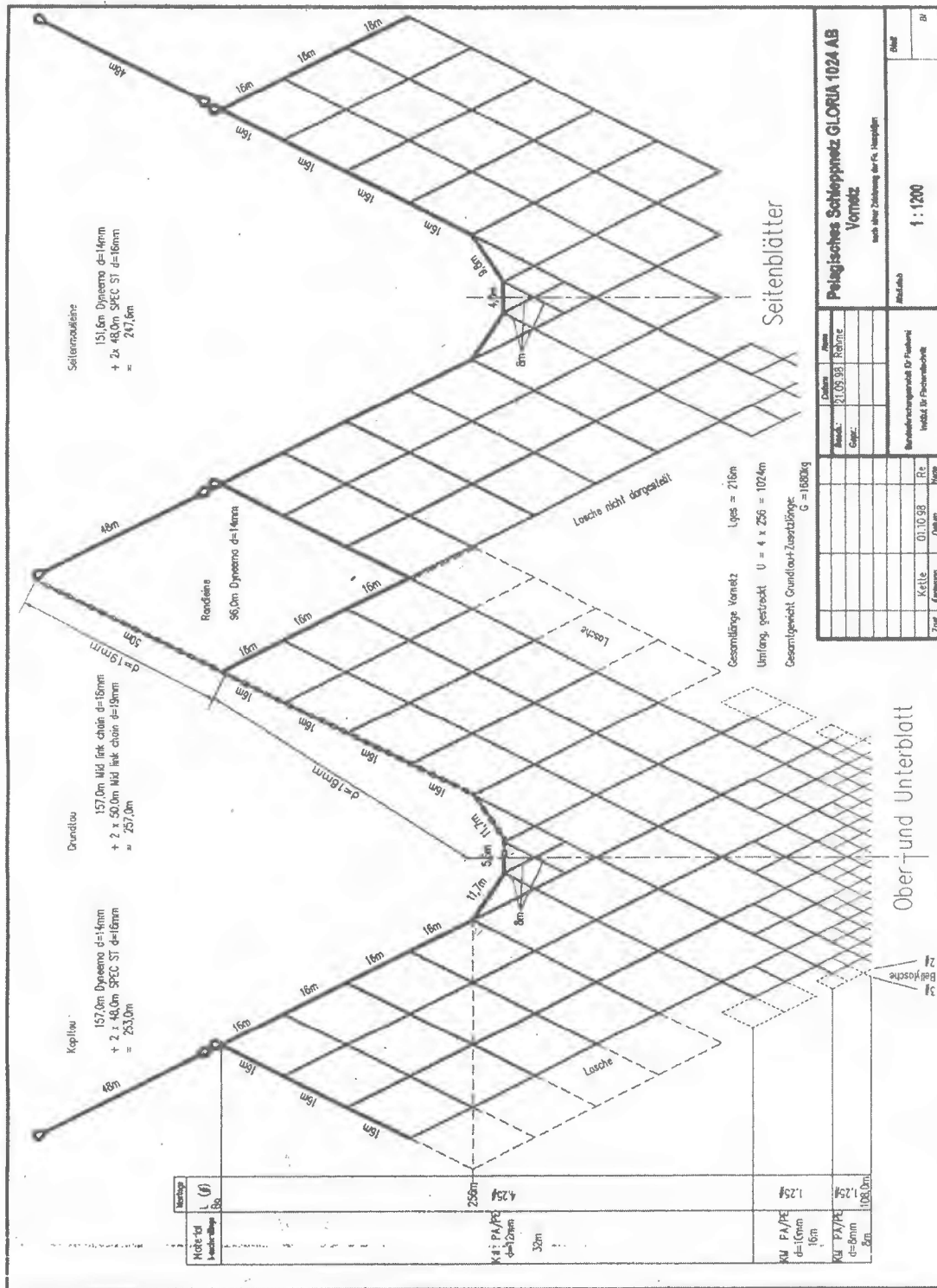


Figure. 1: Preliminary cruise track of hydroacoustical transects of RV „Walther Herwig III“ (based on a similar previous cruise (WH323) – green line, red line – RV “Vilnius”, blue line – RV “A. Fridriksson”).

Tab. 1: Corner points of the Cruise track of RV „Walther Herwig III“(WH323).

Longitude		Latitude	
GG	MM	GG	MM
-37	-30	55	45
-43	-30	53	45
-48	0	52	30
-51	0	52	30
-52	0	53	15
-48	0	53	15
-45	-15	54	0
-52	0	54	0
-52	0	54	45
-43	0	54	45
-40	-30	55	30
-52	0	55	30
-50	-45	56	15
-37	0	56	15



Pelagisches Schleppnetz GILORIA 1024 AB		Netz	
Vornetz		nach einer Zeichnung der F. Netzplan	
Zeichn.	Blatt	Blatt	Blatt
21.09.93	Reihe		
Gez.			
Staubentwurfamt CP-Fischerei		Verst. d. Fischereiamt	
Zust.	Abw.	Zeichn.	Blatt
Kette	01.10.93	Re.	
Abw.		Blatt	
1 : 1200			

Fig. 2a. Pelagic Gloria-type 1024 pelagic trawl. Front part.

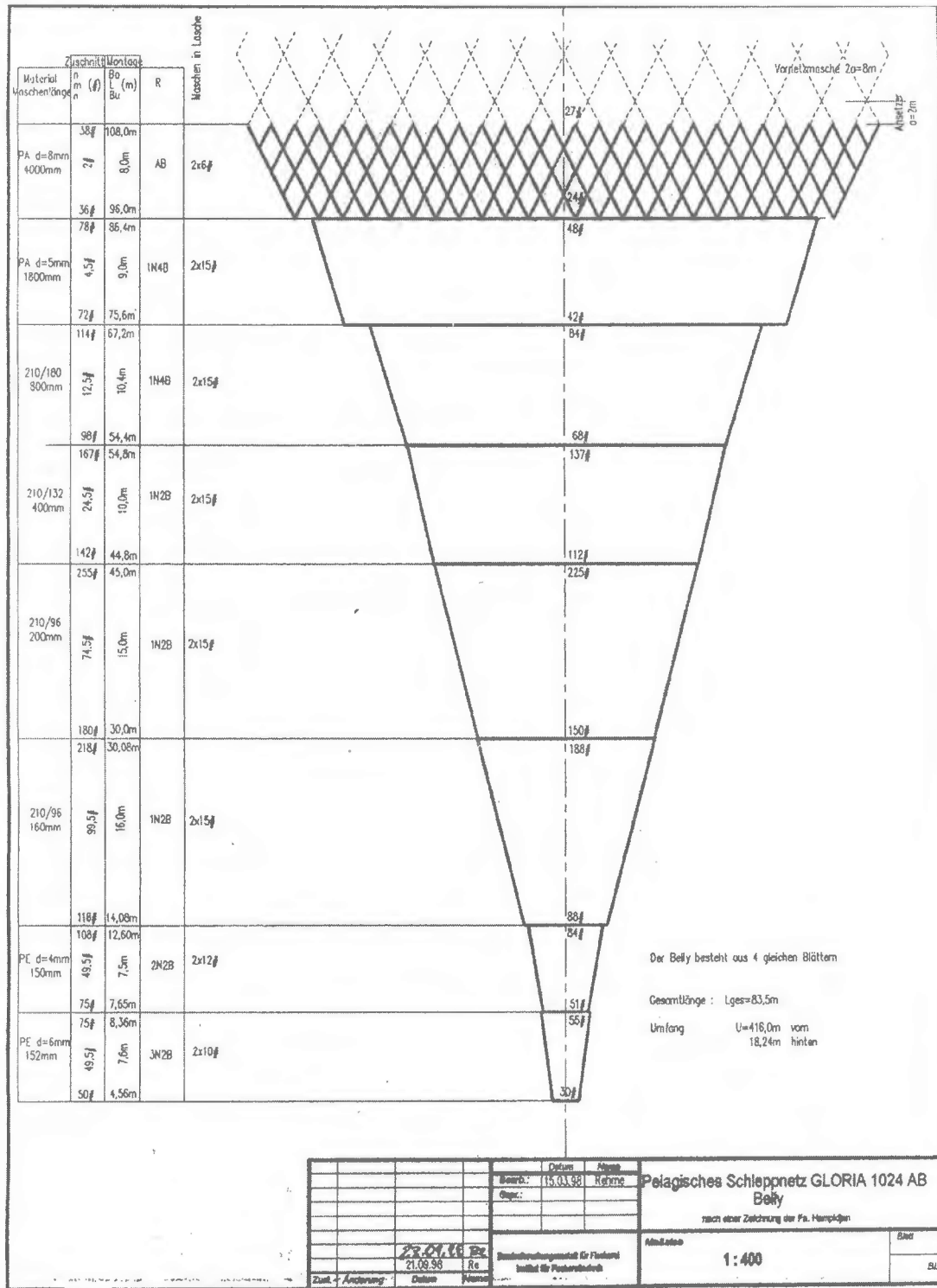


Fig. 2b. Pelagic Gloria-type 1024 pelagic trawl. Back part.