

## A. GENERAL

1. Name of research ship *FRV "Walther Herwig III" - Cruise No. 479*
2. Dates of cruise *from 06 June 2024 to 08 July 2024*
3. Operating Authority *Federal Office for Agriculture and Food  
Unit 533  
Haubachstrasse 86  
22765 Hamburg (Germany)  
Telephone +49 (0)228 6845 5534  
Telefax +49 (0)30 1810 6845 5555  
Email *fischereiforschung@ble.de**
4. Owner (if different from para. 3) *Federal Republic of Germany*
5. Particulars of ship
- |   |                                    |
|---|------------------------------------|
| Name  | <i>FRV "Walther Herwig III"</i>    |
| Nationality   | <i>Federal Republic of Germany</i> |
| Overall length (metres)                                 | <i>63.18</i>                       |
| Maximum draught (metres)                                | <i>6.20</i>                        |
| Nett tonnage  | <i>639</i>                         |
| Method of propulsion                                    | <i>Diesel/Diesel Electric</i>      |
| Call sign   | <i>DBFR</i>                        |
| INMARSAT-Phone  | <i>00870 773 236 187</i>           |
| INMARSAT-Fax  | <i>00870 783 209 565</i>           |
| Registered port & number (if registered fishing vessel) |                                    |
6. Crew
- |                |                             |
|----------------|-----------------------------|
| Name of Master | <i>Captain Stefan Meier</i> |
| Number of Crew | <i>23</i>                   |
7. Scientific personnel
- |   |  |
|---|--|
| Name and Address of Scientist-in-Charge | <i>Matthias Bernreuther<br/>Thünen Institute of Sea Fisheries<br/>Herwigstrasse 31<br/>27572 Bremerhaven<br/>Germany</i> |
| Telephone                               | <i>+49 471 94460 249</i>   |
| Telefax                                 | <i>+49 471 94460 199</i>   |
| Email                                   | <i>matthias.bernreuther@thuenen.de</i>   |
| Number of Scientists                    | <i>11</i>  |
8. Geographical area in which ship will operate (with reference in latitude and longitude):  
*Irminger Sea and adjacent waters (52° - 65°N and 20° - 50°W), in international waters and in the EEZs of Greenland, Canada and Iceland.*
9. Brief description of purpose of cruise:  
*Pelagic trawl-acoustic survey targeting shallow and deep pelagic redfish (*Sebastes mentella*).*
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. 479*
2. Dates of cruise *from 06 June 2024 to 08 July 2024*
3. Purpose of research and general operational methods
  - *Pelagic trawling and acoustic measurements as a scientific basis for an assessment of the stock sizes of shallow and deep pelagic redfish (*Sebastes mentella*).*
  - *Oceanographic data collection along international transects.*
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 and the cruise tracks from scientific survey in 2013. The cruise tracks of the 2021 survey will be approximately similar to the 2013 survey. However, only two nations (Iceland and Germany) will participate in the survey in 2024. A planning group meeting (WGIDEEPS), specifying the cruise tracks in detail, will take place at the headquarters of the International Council for the Exploration of the Sea (ICES) in Copenhagen from 13 to 15 February 2024.*

- 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*

*A pelagic trawl will be used to sample the two pelagic redfish stocks (*Sebastes mentella*), of which only few scientific samples will be retained on board (< 100 kg).*

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

*Pelagic trawl fishing will be performed by a GLORIA-type pelagic trawl with an attached multi-sampler. Approximately 25 fishing stations at depths from 200 to 900 m are planned. Water samples will be obtained by a SBE 32 Carousel Water Sampler or a similar device.*

- 6a. Details of moored equipment:

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

- 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) and the Multi-sampler (Fig. 3a and 3b).*

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

- |  |                                |
|--|--------------------------------|
| (a) Type and trade name                      | <i>Formaldehyde</i>            |
| (b) Chemical content (& formula)             | <i>CH<sub>2</sub>O</i>         |
| (c) IMO IMDG code (reference & UN No.)       | <i>'IMDG-Code UN No. 2209'</i> |
| (d) Quantity & method of stowage on board    | <i>3 x 10 l canisters</i>      |
| (e) If explosives give date(s) of detonation | <i>none</i>                    |

- 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 trawl and acoustic surveys in the Irminger Sea and adjacent waters by Russia, Iceland, Germany, Norway) in June-July 1996, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2018 and 2021.*

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

- *ICES. 2022. Working group on international deep pelagic ecosystem surveys (WGIDEEPS 2nd Report; outputs from 2021 meeting). ICES Scientific Reports. 3:104. 57pp. <https://doi.org/10.17895/ices.pub.9032>*
- *The second Report of the Working Group on International Deep Pelagic Ecosystem Surveys (WGIDEEPS) in 2018 - ICES CM 2018/EOSG: 40 and previous reports are available on the home page of the International Council for the Exploration of the Sea (ICES): <https://www.ices.dk/community/groups/Pages/WGIDEEPS.aspx>*

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

*Kristján Kristinsson  
Marine and Freshwater Research Institute – Demersal Division  
Fornubúðum 5  
220 Hafnafjörður, Iceland  
Tel.: +354 575 2091  
email: [kristjan.kristinsson@hafogvatn.is](mailto:kristjan.kristinsson@hafogvatn.is)*

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:  
(If ‘YES’ please indicate possible dates and ports of embarkation/ disembarkation)

YES

*Embarkation: Bremerhaven, 06 June 2024; disembarkation: Bremerhaven, 08 July 2024*

(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 approximately 6 weeks after the end of the survey. The data will be made available from the International Council for the Exploration of the Sea (ICES) database at <https://www.ices.dk/data/data-portals/Pages/default.aspx>.*

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
<i>Trawling</i>	<i>yes</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>
<i>Water samples</i>	<i>yes</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>
<i>Echo sounding</i>	<i>yes</i>	<i>yes</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>



.....Dated.....12/19/2023.....

(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

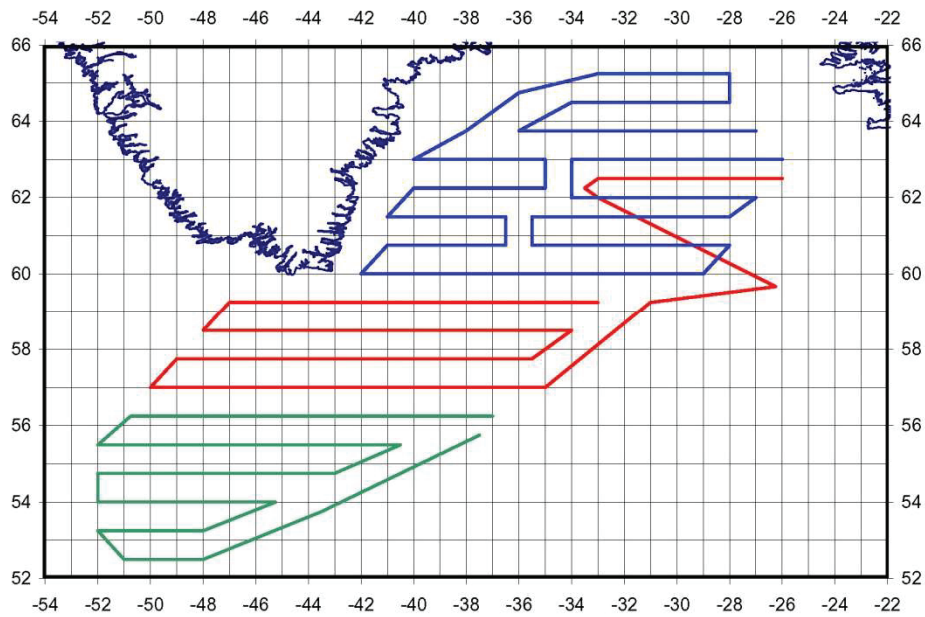


Figure 1. Preliminary cruise tracks of the hydroacoustical transects of FRV „Walther Herwig III“ (based on the cruise WH323 in 2013 – green line, red line – FRV “Vilnius”, blue line – FRV “A. Fridriksson”).

Tab. 1: Preliminary corner points of the Cruise track of RV „Walther Herwig III“ (WH479).

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







**TYSKLAND**

**JAN. 2010**

**NO. 1085-TYSKLAND**

HEL MASKER TRAAD LENGDE MASCHEN  
M/M NR. MTR. I LASCHE

1 PC  
42 32 8.30 4

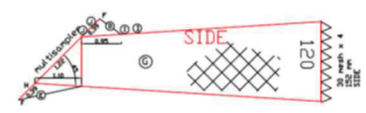
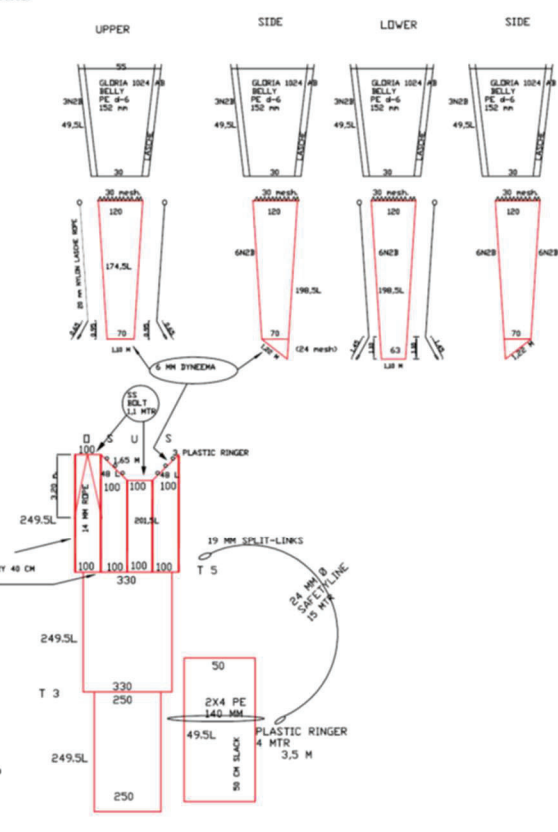
FUL MESH TWINE LENGDE MASCHEN  
M/M NR. MTR. I LASCHE

24.0 14 6.00 4

24.0 14 6.00 4

24.0 14 6.00 4

Typ	MULTISAMPLER	Wærk nr.	38
Skisser		Skisser nr.	04.10.002
Dato	04.10.2009	Skisser nr.	04.10.002
K.C.N.	1796.000	Skisser nr.	04.10.002



- D LASCHE ROPE 65 CM (+ S.JAKKEL)
- E LASCHE ROPE 1.45 CM (+ S.JAKKEL)
- F SHACKLES 55 12 MM
- G EXTENSION
- I 1/2" PLASTIC FLDATS (TITANO)
- J 1/2" PLASTIC FLDATS (TITANO)

Figure 3 a. Multi-sampler net description.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	MASS
34	1	AS 1110 - M10 x 30	ISO metric hexagon precision bolts and screws	Steel, M8	0.029 kg
35	1	HCL bestarrangement			11.333 kg
37	2	ISO 4034 - M24	Hex Nut	Default	0.017 kg
38	3	NF-E 25-111 - M10x20	Hexagon Lobular Socket Head Screw	Default	0.001 kg
		Property Class 4.8			
35	6	ISO 4017 - M8 x 16	Hex-Head Bolt	Default	0.002 kg
32	9	ISO 4017 - M16 x 35	Hex-Head Bolt	Default	0.012 kg
31	8	ISO 4033 - M16	Hex Nut	Default	0.006 kg
30	12	ISO 4034 - M8	Hex Nut	Default	0.001 kg
29	6	ISO 4034 - M8	Hex Nut	Default	0.000 kg
28	3	NF-E 25-111 - M10x30	Hexagon Lobular Socket Head Screw	Default	0.001 kg
		Property Class 4.8			
27	6	ISO 8676 - M8 x 1 x 16	Hex-Head Bolt	Default	0.002 kg
26	12	ISO 4034 - M14	Hex Nut	Default	0.004 kg
25	12	ISO 4017 - M16 x 40	Hex-Head Bolt	Default	0.009 kg
24	14	AS 1427 - M10 x 20	Slotted Countersunk Head Screw	Default	0.002 kg
23	6	ISO 4014 - M10 x 60	Hex-Head Bolt	Default	0.006 kg
21	18	ISO 4017 - M10 x 60	Hex-Head Bolt	Default	0.006 kg
20	45	ISO 4034 - M10	Hex Nut	Default	0.002 kg
19	4	Rubberlink	104 10 85N 018 7	Rubber-Black	0.79 kg
18	3	Ytterbålg		AISI 316 (Stainless steel)	4.95 kg
16	2	Nettakling		AISI 316 (Stainless steel)	8.50 kg
15	1	Løfteside aktør		AISI 316 (Stainless steel)	4.46 kg
14	1	Løfteside korn		AISI 316 (Stainless steel)	5.46 kg
13	2	korn bændragnery		AISI 316 (Stainless steel)	4.12 kg
12	2	korn langdrager		AISI 316 (Stainless steel)	4.46 kg
11	3	Flytt komponent			50.010 kg
10	1	Ytterbålg høys			20.136 kg
9	1	Ytterbålg venstre			19.347 kg
7	2	Fluktspærre			1.151 kg
6	2	Kullingsstøt			0.440 kg
5	2	Kollingsstøt			0.340 kg
4	1	Tvernd aktør			19.712 kg
3	1	Tvernd korn			9.901 kg
2	1	langbålgvenstre komple			18.139 kg
1	1	langbålg høys komple			18.139 kg

Figure 3 b. Multi-sampler frame description.