

10X

A. GENERAL

1. Name of research ship FFS "Walther Herwig III" Cruise No. 304

2. Date of cruise From 14.09.2007 To 3.10.2007

3. Operating Authority Bundesanstalt für Landwirtschaft und Ernährung, Referat 522  
Palmaille 9, 22767 Hamburg

4. Owner (if different from para. 3) Telephone +49 40 38905171 / Telex 214763 bled / Fax +494038905128  
Bundesrepublik Deutschland

5. Particulars of ship

Name FFS "Walther Herwig III"

Nationality Federal Republic of Germany

Overall length (metres) 64,50

Maximum draught (metres) 6,20

Nett tonnage 2131 BRZ

Method of propulsion e.g. Steam Turbine/Diesel/ Diesel Electric

Call sign DBFR

Registered port & number (if registered fishing vessel)

6. Crew

Name of Master H. Janßen or deputy

Number of Crew 21

7. Scientific personnel

Name and Address of Dr. Carsten Meyer

Scientist - in - Charge BFEL FB Fisch  
Palmaille 9  
D 22767 Hamburg

Tel./FAX No. +49 40 38905 125 +49 40 38905263

Number of Scientists 12

8. Geographical area in which ship will operate (with reference in latitude and longitude):  
53° N – 63° N / 9°30' W – 10° E

9. Brief description of purpose of cruise:  
Storage and quality assessment experiments with important fish species  
Sampling of biota for chemical analysis

10. Dates and names of intended ports of call:  
Torshavn, Faroe Island, 24./25.09.2007

11. Any special requirements at ports of call: no

B. DETAIL

1. Name of research ship FFS "Walther Herwig III" Cruise No. WH 304.  
2. Dates of cruise From 14.09.2007 To 3.10.2007

3. Purpose of research and general operational methods

*Investigations of quality parameters during handling of fish onboard, sampling of fish for analysis of organic trace elements and other compounds.*

*Bottom trawl gear: GOV-GSN, 140*

*Pelagic trawl gear: PSN 205m*

*For detailed description see attached documents*

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.

*Variable stations for fishing depending on occurrence of fish species needed for investigations*

*For detailed informations see attached documents*

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 samples for storage experiments on board, fish material for analysing on shore saithe, herring, plaice, haddock and other fish species. From each species max 500 kg.*

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

*Bottom trawl*

*Pelagic trawl*

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.).

*Pelagic and bottom trawl*

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

- |   |  |
|---|--|
| (a) Type and trade name                       | <u>Solvents for analytical purposes</u>          |
| (b) Chemical content (& formula)              | <u>Aceton, Ethanol, Isooctane</u>                |
| (c) IMO IMDG code (Reference & UN No.)        | <u>3.1/II UN 1090, 3.2/II UN 1170, 3.2/II UN</u> |
| (d) Quantity & method of stowage on board     | <u>each 2 ltr, chemical laboratory</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

(b)

*Cruise 216. Walther Herwig III, 26.04.2000 – 09.05.2000*

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

(Attach separate sheet if necessary)

*./.*

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

*./.*

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  
*no spare accomodation* NO

[If 'YES' please indicate possible dates and ports of  
embarkation /disembarkation  
*no accomodation available*

(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.

*About 4 weeks after the trip*

PART-C: SCIENTIFIC EQUIPMENT

COASTAL STATE *United Kingdom*

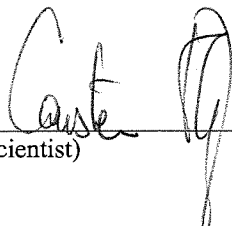
COMPLETE THE FOLLOWING TABLE  
SEPARATE COPY FOR EACH COASTAL STATE

PORT CALL *none*

DATES:

INDICATE „YES“ OR „NO“

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 including Sediment Sampling of the Seabed	Fisheries Research within Fishing Limits	Research concerning the natural resources of the continental shelf or its physical characteristics	Distance from coast		
				Within 12 NMS	Between 12-200 NM	(Continental shelf work only) Beyond 200 NM but within the continental margin
<i>Bottom trawl</i>	<i>no</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>	<i>yes</i>
<i>Pelagic trawl</i>	<i>no</i>	<i>yes</i>	<i>no</i>	<i>no</i>	<i>yes</i>	<i>yes</i>

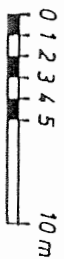
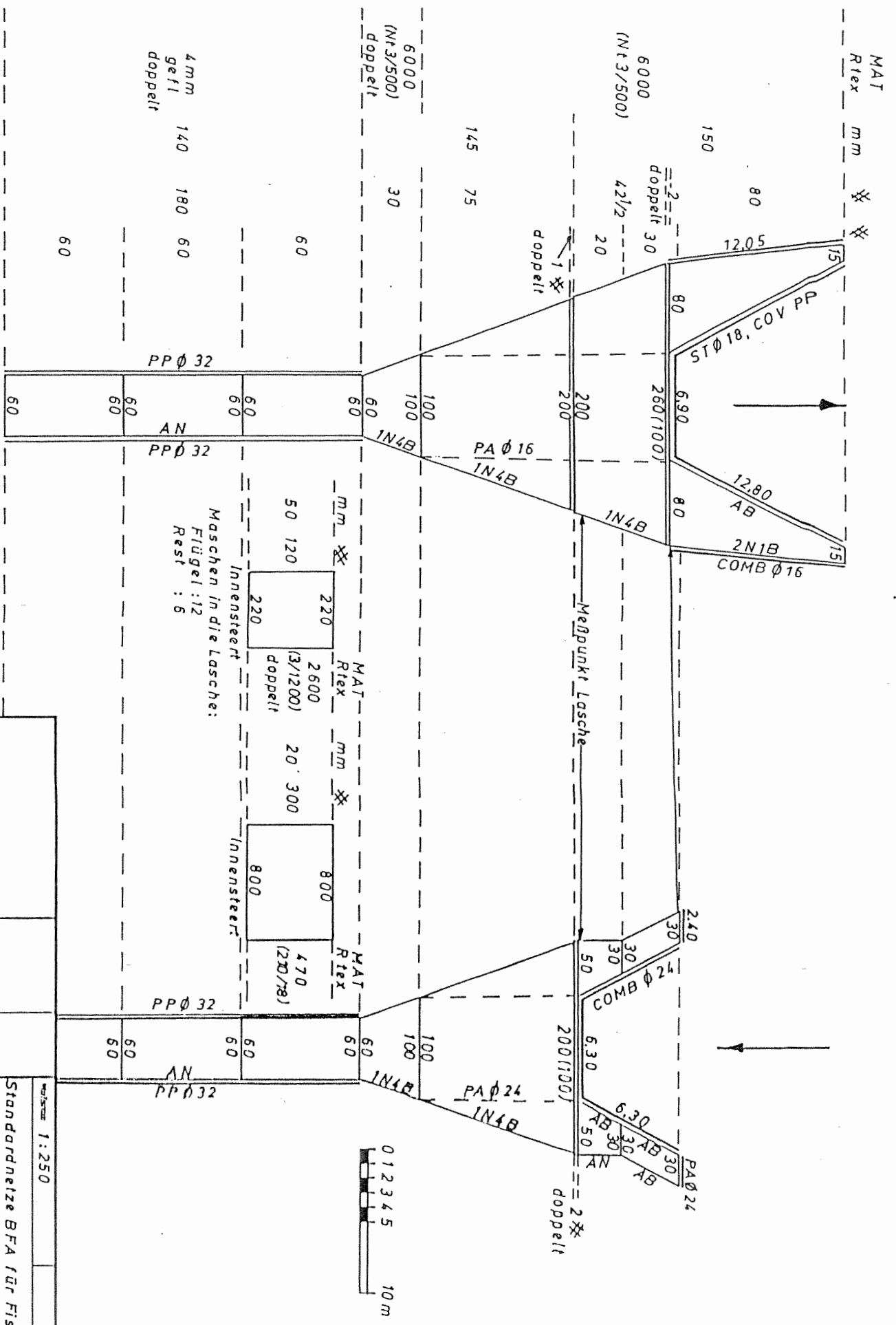


Dated *26.2.07*

(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





Verstärkung				Datum			
FLUGEL				27.06.2011			
Bezeichnung				150590 24			
Bezeichnung				350590 24			
Zust.				Aenderung			
140 FuD Grundschleppnetz				Standardnetze BFA für Fischerei			
Entwurf: Mewes & Eitzen				Blatt 1			

MAßSTAB 1:250

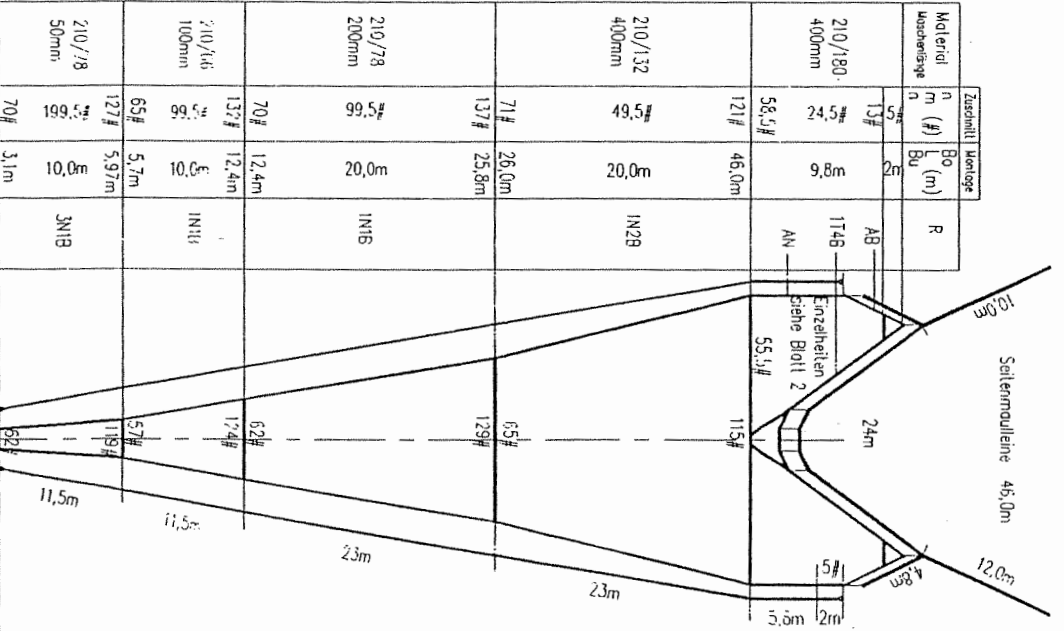
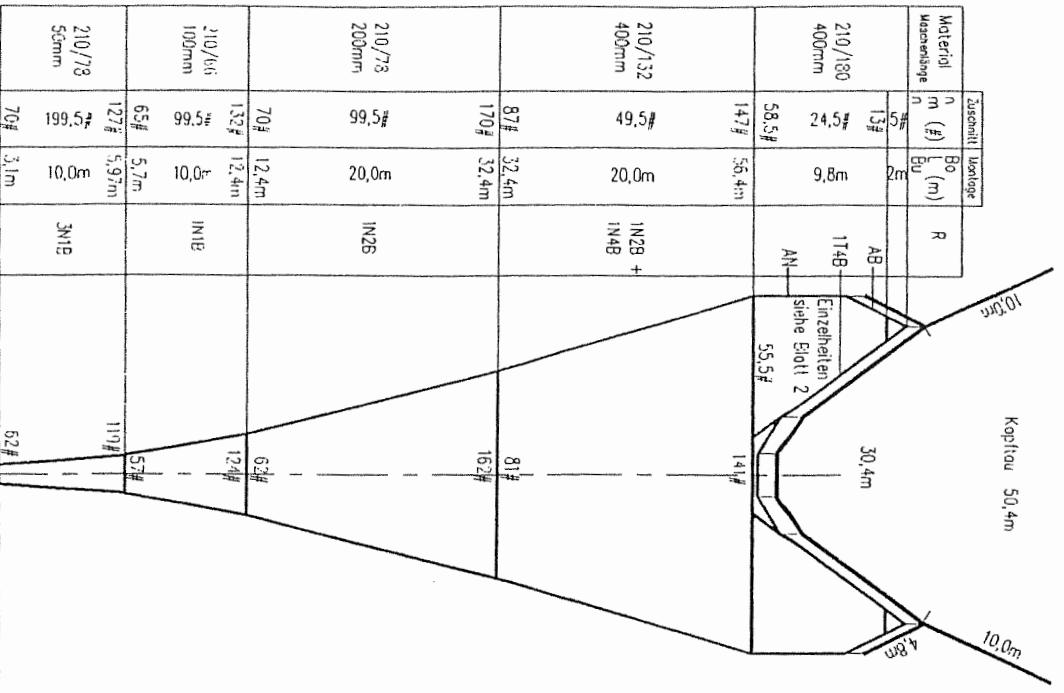
Standardnetze BFA für Fischerei

140 FuD Grundschleppnetz

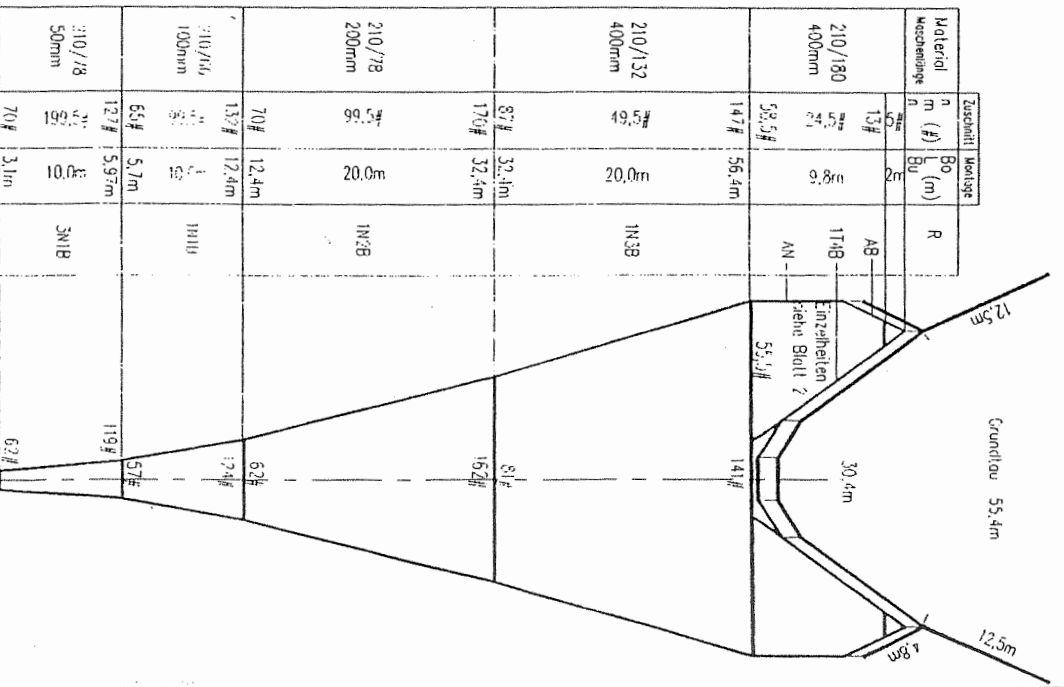
Entwurf: Mewes & Eitzen

Blatt 1

### Oberblatt



### Seitenblatt



### Unterblatt

Material Maschenlänge	n m (#)	Zuschnitt Montage		R
		Bo L (m)	Bu L (m)	
210/180 400mm	24 m (#)	24 m	24 m	AB 1148 AN
210/132 400mm	49 m (#)	20,0 m	20,0 m	IN28 + IN48
210/78 200mm	99 m (#)	20,0 m	20,0 m	IN28
210/78 200mm	70 m (#)	12,4 m	12,4 m	
210/66 100mm	66 m (#)	5,7 m	5,7 m	IN18
210/78 50mm	66 m (#)	5,97 m	5,97 m	3N18

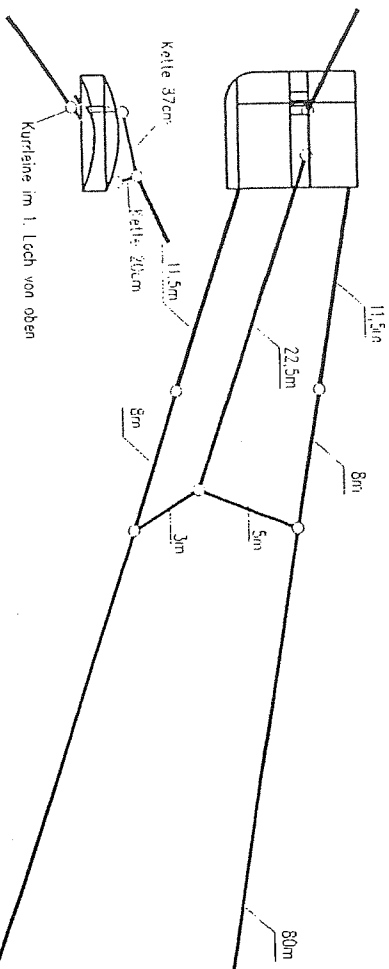
Material Maschenlänge	n m (#)	Zuschnitt Montage		R
		Bo L (m)	Bu L (m)	
210/180 400mm	24 m (#)	24 m	24 m	AB 1148 AN
210/132 400mm	49,5 m (#)	20,0 m	20,0 m	IN28
210/78 200mm	99 m (#)	20,0 m	20,0 m	IN18
210/78 200mm	71 m (#)	26,0 m	26,0 m	
210/66 100mm	66 m (#)	5,7 m	5,7 m	IN18
210/78 50mm	66 m (#)	5,97 m	5,97 m	3N18

Material Maschenlänge	n m (#)	Zuschnitt Montage		R
		Bo L (m)	Bu L (m)	
210/180 400mm	24 m (#)	24 m	24 m	AB 1148 AN
210/132 400mm	52 m (#)	20,0 m	20,0 m	IN38
210/78 200mm	99 m (#)	20,0 m	20,0 m	IN28
210/78 200mm	87 m (#)	32,4 m	32,4 m	
210/66 100mm	66 m (#)	5,7 m	5,7 m	HN18
210/78 50mm	66 m (#)	5,97 m	5,97 m	3N18

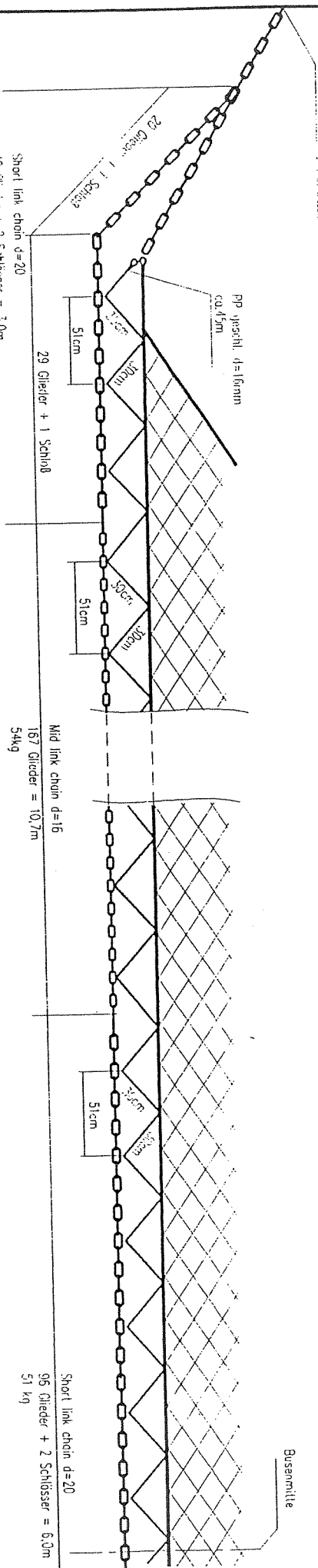
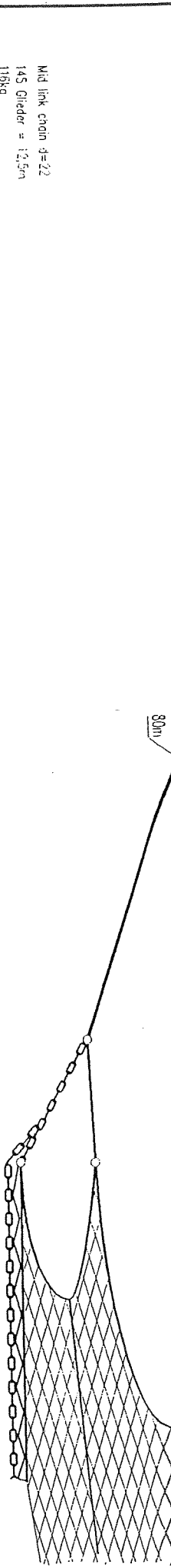
Gesamtlänge L ges = 84,3m  
Umfang U = 205m  
(Entsprechend 1025 Maschen ø=100mm)

Datum		Name	
Beauftragter		Gepr.	
01.04.98		[Signature]	
Bundelzeichnung für Fließband			
Intakt für Fließband			
PSN 205m		für FFS Walther Herwig III	
Maßstab		Blatt I	
1 : 600		4 Bl.	

Scherwall : Hyacinth 1977  
3,34 Quadratmeter



Je Auftriebskugel 3 Liter  
6 Pöschchen zu 6 Kugeln



Vergewicht: 2 x (110kg + 26kg) = 284kg  
Kettengrundbau: 2 x 54kg + 51kg = 159kg

Gesamtgewicht: = 443kg (14,3kN)

Scherwall	18.12.9
A	06.07.9

Datum	Name
Bearb.: 01.04.98	
Gedr.:	

Bundesforschungsanstalt für Fischerei Institut für Fischereitechnik	Maassstab 0:1	Blatt 4 4 Bl.
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PSN 205m  
Vorgeschrift und Kettengrundbau



Material Lactentiefe	Zuschnitt		Länge Bu	R
	n (#)	B <sup>0</sup> (m)		
210/132 50mm	200#	3,1m	10,0m	AN
210/96,2 50mm	200#	3,1m	10,0m	AN
	70#	3,1m		
	70#	3,1m		
	70#	3,1m		

5,0m

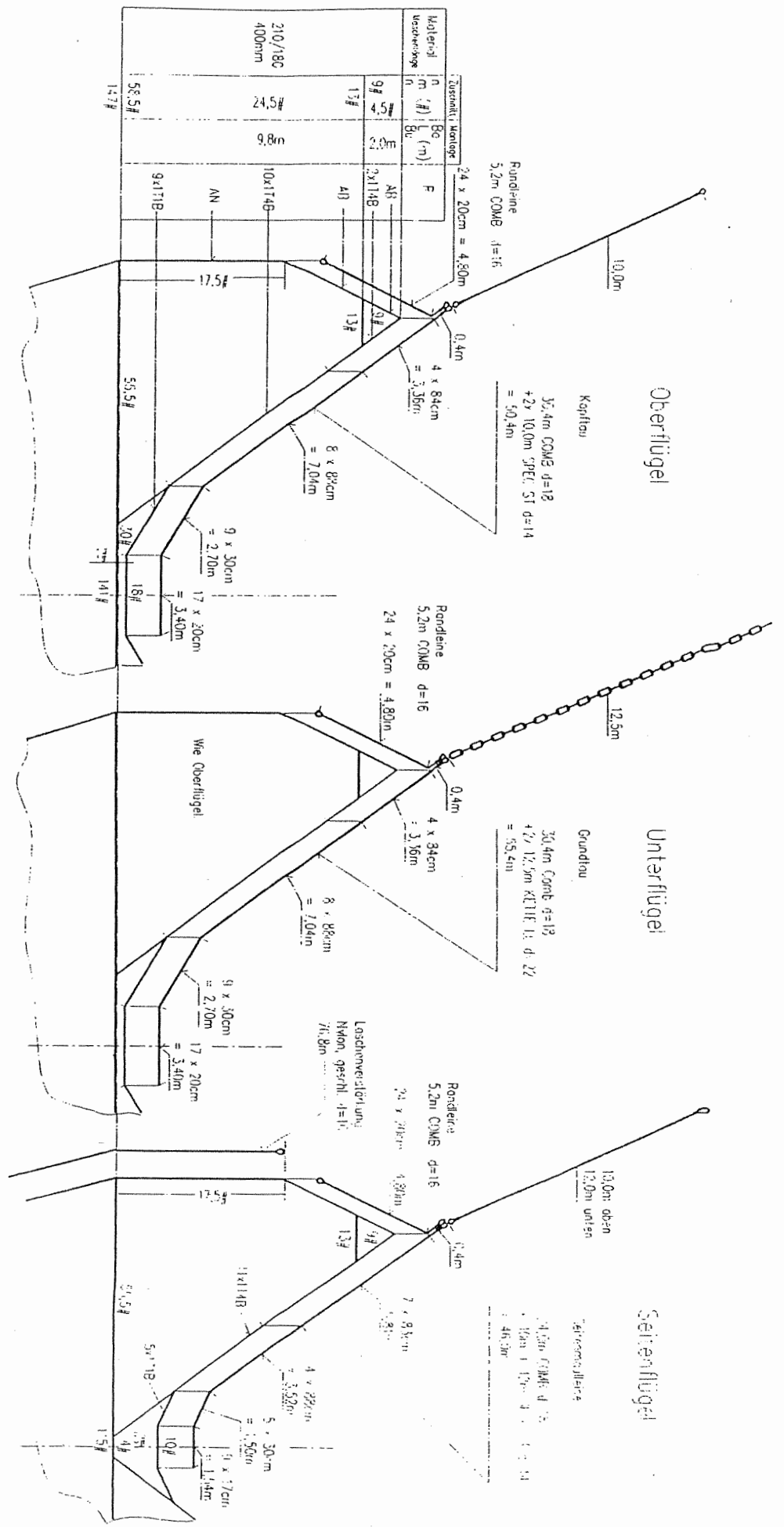
p	Menge		Zuschnitt	Material Lactentiefe
	B <sup>0</sup> (m)	L <sub>Bu</sub>		
	14,84	750#	210/21 20mm	
	8,0m	400#	210/21 20mm	
	8,0m	400#	210/21 20mm	
	14,84	750#	210/21 20mm	

Steert  
4 Blätter

Einlage  
1 Blatt

Umfang : U = 12,4m  
Länge : L<sub>ges</sub> = 20,0m

Zust.	Änderung	Datum	
Bearb.: 01.04.98 <i>R. L.</i> Gepr.:			Datum
Bundesforschungsanstalt für Fischerei Institut für Fischereitechnik			Name
Madstieb 1 : 250			PSN 205m Heringssteert
Blatt 3 4 Bl.			

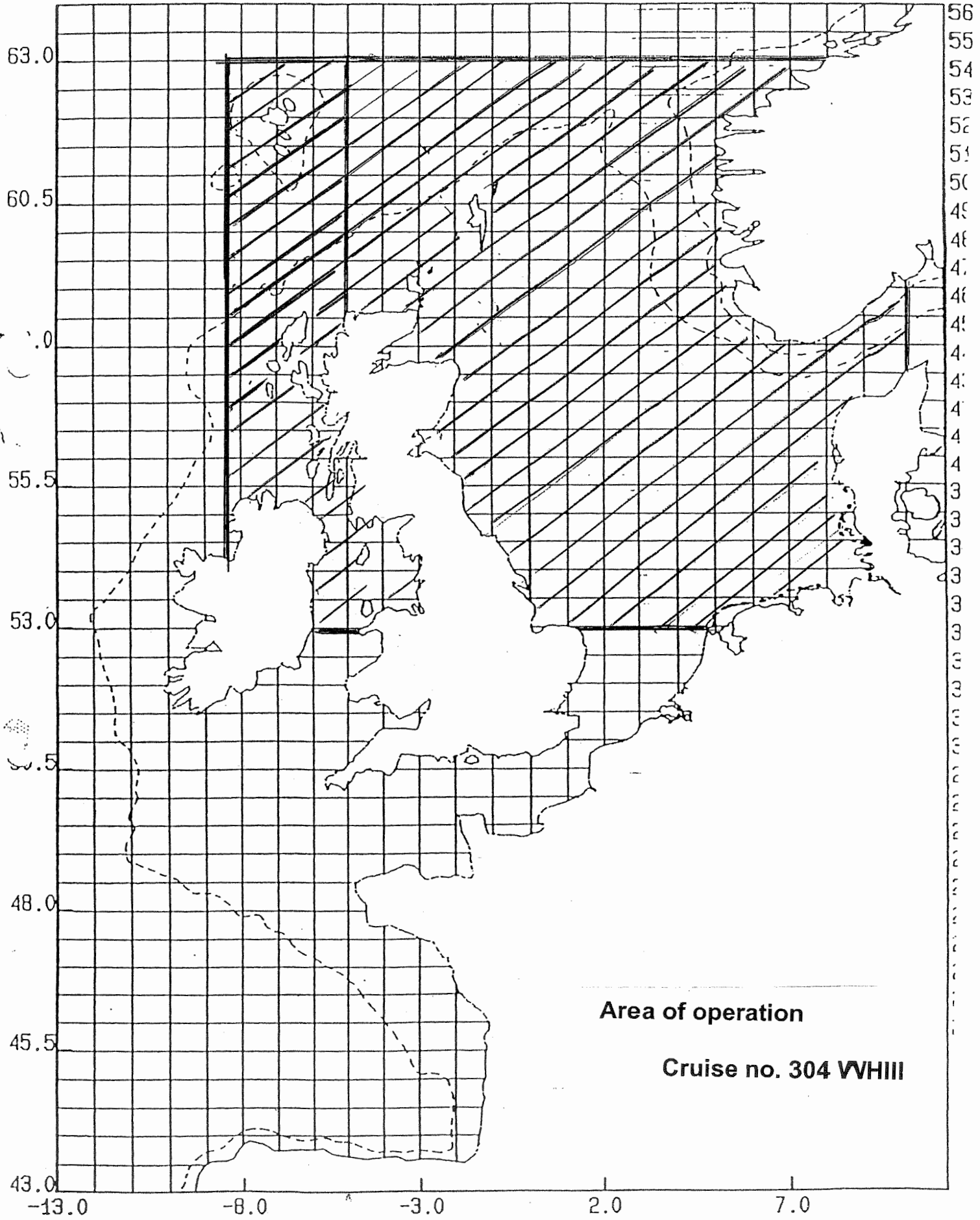


Material Vorderflügel	Zusätzliche Merkmale		Bsp. (m)	F
	n (#)	L (m)		
210/18C 400mm	9#	4.5#	2.0m	AN
	13#		3.1148	40
			9.8m	NN
			10x1148	
			9x1118	
	58.5#			
	14.7#			

Zust.	Anderung	Datum	Nr.	Datum		Name
	A	06.07.98				
				Beord.: 01.04.98		
				Gepf.: <input checked="" type="checkbox"/>		
Einzelheit Flügel						
PSN 205m						
Maststab 1:250						
					Blatt 2	
					4 Bl.	

Bundstiftungsamt für Fischerei  
Institut für Fischereitechnik

D7 D8 D9 E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 G0



**Area of operation**

**Cruise no. 304 WHIII**