

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

UK

PART A: GENERAL

1. NAME OF RESEARCH SHIP: *FRV WALTHER HERWIG III* Cruise No.367
2. DATES OF CRUISE: *28.08.2013 – 12.09.2013*
3. OPERATING AUTHORITY: *Bundesanstalt für Landwirtschaft und Ernährung  
Ref. 524  
Haubachstr. 86, 22765 Hamburg  
Telephone +49 (0)40 306860 534  
Telefax +49 (0)40 306860 555*
4. OWNER *Federal Republic of Germany*  
(if different from Para 3)

5. PARTICULARS OF SHIP

NAME *FRV WALTHER HERWIG III*

NATIONALITY *German*

OVERALL LENGTH *63.18 m*

MAXIMUM DRAUGHT *6.20 m*

NETT TONNAGE *639*

PROPULSION *Diesel/Diesel Electric*

CALL SIGN *D B F R*

REGISTRATION PORT & NUMBER  
( if registered fishing vessel)

6. CREW

NAME OF MASTER *Vandrei, Jürgen*

NUMBER OF CREW *21*

7. SCIENTIFIC PERSONNEL

NAME AND ADDRESS OF SCIENTIST  
IN CHARGE *Dr. Thomas Lang  
Thünen Institute of Fisheries Ecology  
Deichstr. 12  
27472 Cuxhaven (Germany)*

TELEPHONE NO. *+49 (0)4721 38034*

TELEFAX NO. *+49 (0)4721 53583*

NO. OF SCIENTISTS *12*

8. GEOGRAPHICAL AREA IN WHICH SIP WILL OPERATE

*52°46.00'N – 56°42.00'N / 002°10.00'W – 016°00.00'E*

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

*Investigations on the occurrence of fish diseases and biological effects of contaminants, OSPAR/HELCOM monitoring, Bottom trawling, water sampling, hydrography*

10. DATES AND NAMES OF INTENDED PORTS OF CALL *none*11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: GENERAL:

1. NAME OF RESEARCH SHIP: *FRV WALTHER HERWIG III* CRUISE NO: 367

2. DATES OF CRUISE: 28.08.2013 – 12.09.2013

3. a) PURPOSE OF RESEARCH

*Investigations on the occurrence of fish diseases and biological effects of contaminants, OSPAR and HELCOM monitoring, bottom trawling, water sampling, hydrography*

b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear-trawl type, mesh size etc.

*Bottom trawl (GOV with rock hopper, 140ft bottom trawl; see attachment), water sampling, CTD*

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, areas to be fished:

*Attached*

5. a) TYPES OF SAMPLES REQUIRED e.g. Geological/Water/Plankton/Fish/Radionuclide:

*Fish, Water*

b) METHODS OF OBTAINED SAMPLES (e.g. dredging/coring/drilling/fishing etc.)

(When using fishing gear indicate fish stocks being worked, quantity of each species required, quantity of fish to be retained on board)

*Fishing: dab, cod, herring, plaice, flounder haddock, whiting; not more than 500 specimens per station examined, CTD measurements*

6. DETAILS OF MOORED EQUIPMENT:

DATES

<u>Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
---------------	-----------------	--------------------	--------------	-----------------	------------------

7. ANY HAZARDOUS MATERIALS: (Chemicals/Explosives/Gases/Radioactive etc.)  
(use separate sheet if necessary)

a) Type and trade name	<b>Formaldehyde</b>	<b>Ethyl alcohol</b>	<b>Liquid nitrogen</b>
b) CHEMICAL CONTENT (& Formula)	<b>4,5%</b> <b>CH<sub>2</sub>O+H<sub>2</sub>O</b>	<b>70%</b> <b>C<sub>2</sub>H<sub>5</sub>OH</b>	<b>Nitrogen</b> <b>N<sub>2</sub></b>
c) IMO IMDG CODE Reference & UN Number	<b>9/2209</b>	<b>3.2/1170</b>	<b>2/3a /1977</b>
d) QUANTITY & METHOD OF STOWAGE ON BOARD	<b>22 kg/20 litre</b> <b>laboratory</b> <b>container</b>	<b>11kg/10 litre</b> <b>laboratory</b> <b>glass bottles</b>	<b>108,4/66,9 kg</b> <b>storage -40°C</b> <b>pressure container</b>

8. DETAIL & REFERENCE OF:

a) ANY RELEVANT PREVIOUS/FUTURE CRUISES:

*Cruise No. 317, RV WALTHER HERWIG III, 28.11.2008 - 16.12.2008*

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE:

*In preparation*

9. NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE:

*Dr. S. Feist, CEFAS, Weymouth, email: [stephen.feist@cefas.co.uk](mailto:stephen.feist@cefas.co.uk)*

*Dr. J. Thain, CEFAS, Weymouth, email: [john.thain@cefas.co.uk](mailto:john.thain@cefas.co.uk)*

*Dr. M. Gubbins, FRD Marine Laboratory, Aberdeen, email:*

*[matthew.gubbins@scotland.gsi.gov.uk](mailto:matthew.gubbins@scotland.gsi.gov.uk)*

10. STATE:

a) WHETHER VISIT TO THE SHIP IN PORT BY SCIENTISTS OF THE COASTAL STATE CONCERNED WILL BE ACCEPTABLE

YES/NO

b) PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND THE PORTS FOR EMBARKATION/DISEMBARKATION. *Participation is not possible because accommodation is not available.*

YES/NO

c) WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AND BY WHAT MEANS

*A cruise report will be provided; data will be presented to the International Council for the Exploration of the Sea and will be available afterwards*

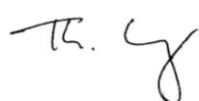
Part C. SCIENTIFIC EQUIPMENT

Coastal State **United Kingdom**  
 Port Call -  
 Dates -

Complete the following table,  
 separate page for each coastal state

Indicate YES or NO

LIST OF SCIENTIFIC WORK BY FUNCTION				DISTANCE	FROM	COAST
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	Within 12 NM	Between 12 - 200 NM	(Continental shelf work only)  beyond 200 NM but within the continental margin
<i>Bottom trawling</i>	<i>bottom</i>	<i>YES</i>	<i>NO</i>	<i>NO</i>	<i>YES</i>	<i>YES</i>
<i>Water sampling, CTD</i>	<i>Between surface and bottom</i>	<i>YES</i>	<i>NO</i>	<i>NO</i>	<i>YES</i>	<i>YES</i>
<i>Pelagic trawl</i>	<i>pelagial</i>	<i>YES</i>	<i>NO</i>	<i>NO</i>	<i>YES</i>	<i>YES</i>



Dr. T. Lang  
 (Principal Scientist)

Dated 2013-02-07

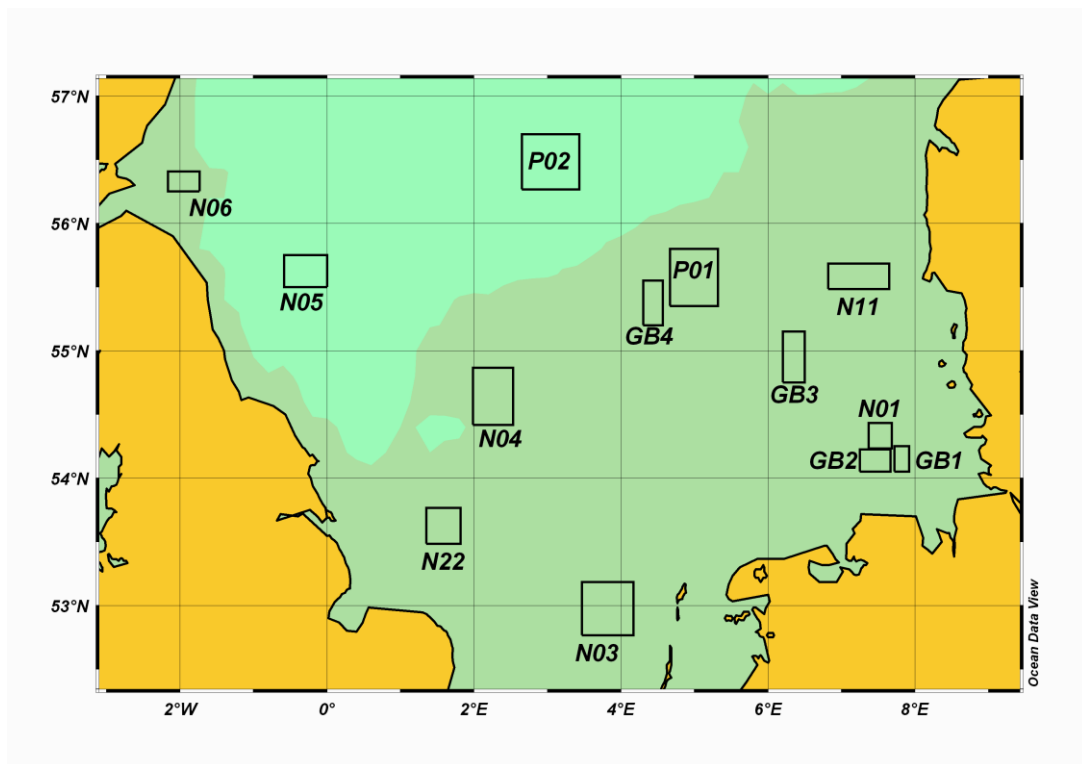
N.B. If any details are materially changed regarding dates/area of operation after this form has been submitted the coastal state authorities must be notified immediately

**Table 1:** Cruise 367 FRV "Walther Herwig III", 28.08. – 12.09.2013, Geographical coordinates

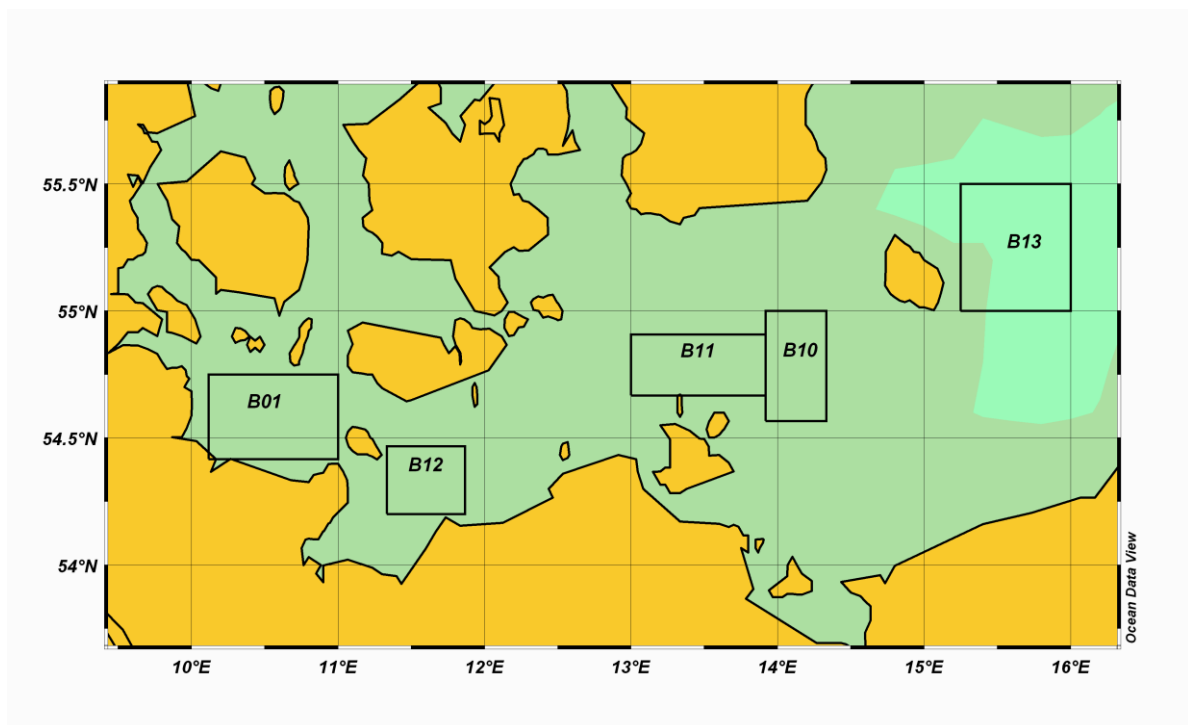
<b>North Sea</b>		
<b>Area</b>	<b>Latitude</b>	<b>Longitude</b>
GB1	54°03.00'N - 54°09.00'N	007°43.00'E - 007°55.00'E
GB2	54°03.00'N - 54°13.50'N	007°15.00'E - 007°40.00'E
GB3	54°55.00'N - 55°02.00'N	006°15.00'E - 006°24.00'E
GB4	55°22.00'N - 55°25.00'N	004°25.00'E - 004°34.00'E
N01	54°14.00'N - 54°26.00'N	007°22.00'E - 007°41.00'E
N03	52°46.00'N - 53°11.00'N	003°28.00'E - 004°10.00'E
N04	54°25.00'N - 54°52.00'N	001°59.00'E - 002°32.00'E
N05	55°15.00'N - 55° 30.00'N	000°25.00'W - 000°00.00'W
N06	56°15.00'N - 56°24.42'N	001°44.00'W - 002°10.00'W
N11	55°29.00'N - 55°41.00'N	006°49.00'E - 007°39.00'E
N22	53°29.00'N - 53°46.00'N	001°21.00'E 001°49.00'E
P01	55°21.00'N - 55°48.00'N	004°40.00'E 005°19.00'E
P02	56°16.00'N - 56°42.00'N	002°39.00'E - 003°26.00'E

<b>Baltic Sea</b>		
<b>Area</b>	<b>Latitude</b>	<b>Longitude</b>
B01	54°25.00'N - 54°45.00'N	10°07.00'E - 11°00.00'E
B10	54°34.00'N - 55°00.00'N	13°55.00'E - 14°20.00'E
B11	54°40.00'N - 54°55.00'N	13°00.00'E - 13°55.00'E
B12	54°12.00'N - 54°28.00'N	11°20.00'E - 11°52.00'E
B13	55°00.00'N - 55°30.00'N	15°15.00'E - 16°00.00'E

**Fig. 1:** Cruise 367 FRV “Walther Herwig III”, 28.08. – 12.09.2013, Location of sampling sites, North Sea



**Fig. 1a:** Cruise 367 FRV “Walther Herwig III”, 28.08. – 12.09.2013, Location of sampling sites, Baltic Sea





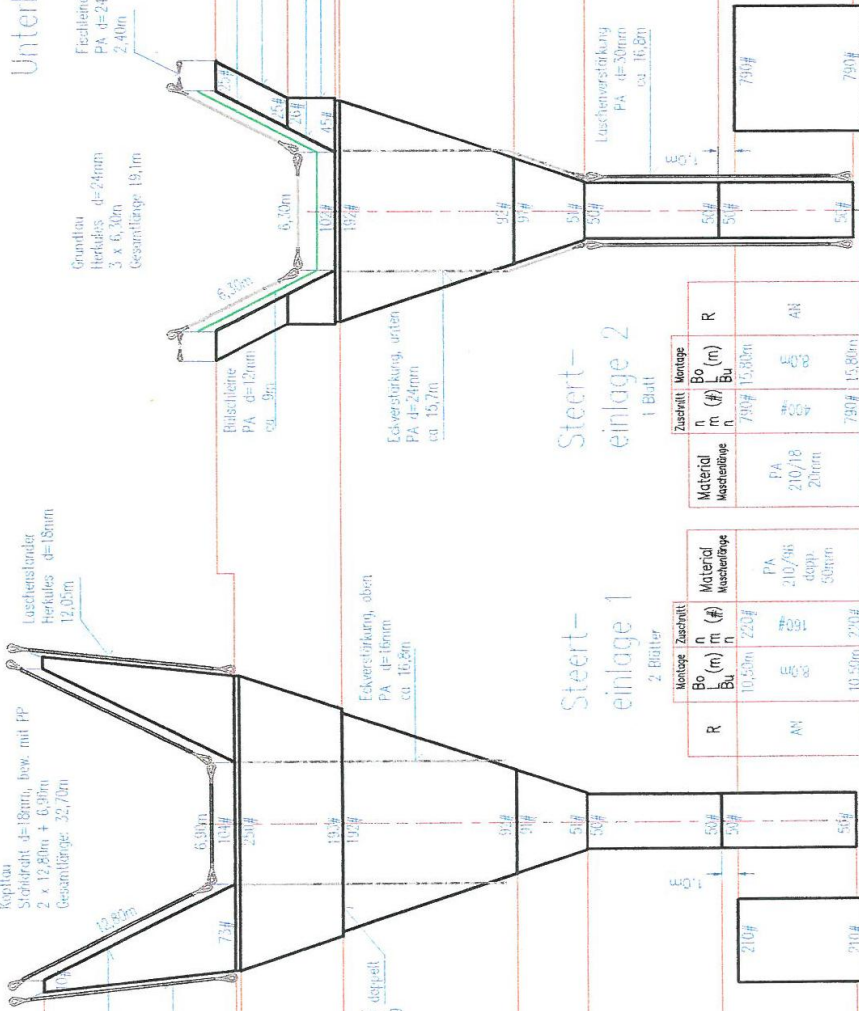
# Oberblatt

Material Mischelänge	Zurechnit n (#)	Montage Bo (m) Bu (m)	R	Zurechnit	
				n (#)	Bo (m) Bu (m)
PA d=4mm 150mm	15#	1,50m	R		
PA d=4mm 150mm	28#	10,95m	AB		
PA d=4mm 150mm	240#	37,50m	2N 1B		
PA d=4mm 150mm	203#	25,95m	1H 4B		
PA d=4mm 145mm	75#	10,95m	1N 4B		
PA d=4mm 145mm	102#	13,35m	1N 4B		
PA d=4mm 145mm	63#	7,35m	AN		
PA d=4mm 140mm	60#	7,00m	AN		
PA d=4mm 140mm	60#	7,00m	AN		
PA d=4mm 140mm	60#	7,00m	AN		

Kopflau  
Stoßkraft d=18mm, bew. mit PP  
2 x 12,80m + 6,90m  
Gesamtlänge: 32,70m

Grundlau  
Herdales d=24mm  
3 x 6,30m  
Gesamtlänge 19,1m

Unterblatt



Steert-  
einlage 1  
2-Batter

Steert-  
einlage 2  
1-Batt

Material Mischelänge	Zurechnit n (#)	Montage Bo (m) Bu (m)	R	Zurechnit	
				n (#)	Bo (m) Bu (m)
PA 210/18 20mm	790#	15,80m	R		
PA 210/18 20mm	58#	15,80m	AN		

Material Mischelänge	Zurechnit n (#)	Montage Bo (m) Bu (m)	R	Zurechnit	
				n (#)	Bo (m) Bu (m)
PA 210/18 20mm	790#	15,80m	R		
PA 210/18 20mm	58#	15,80m	AN		

Steert

140kuss4 skd

Gesamtlänge ohne Steert : 34,1m

Gesamter Umfang : 306# x 0,15m = 57,9m

# 140-Fuß-Netz

1 : 400

Bundeseingangsamt für Fischerei  
Institut für Fischereitechnik

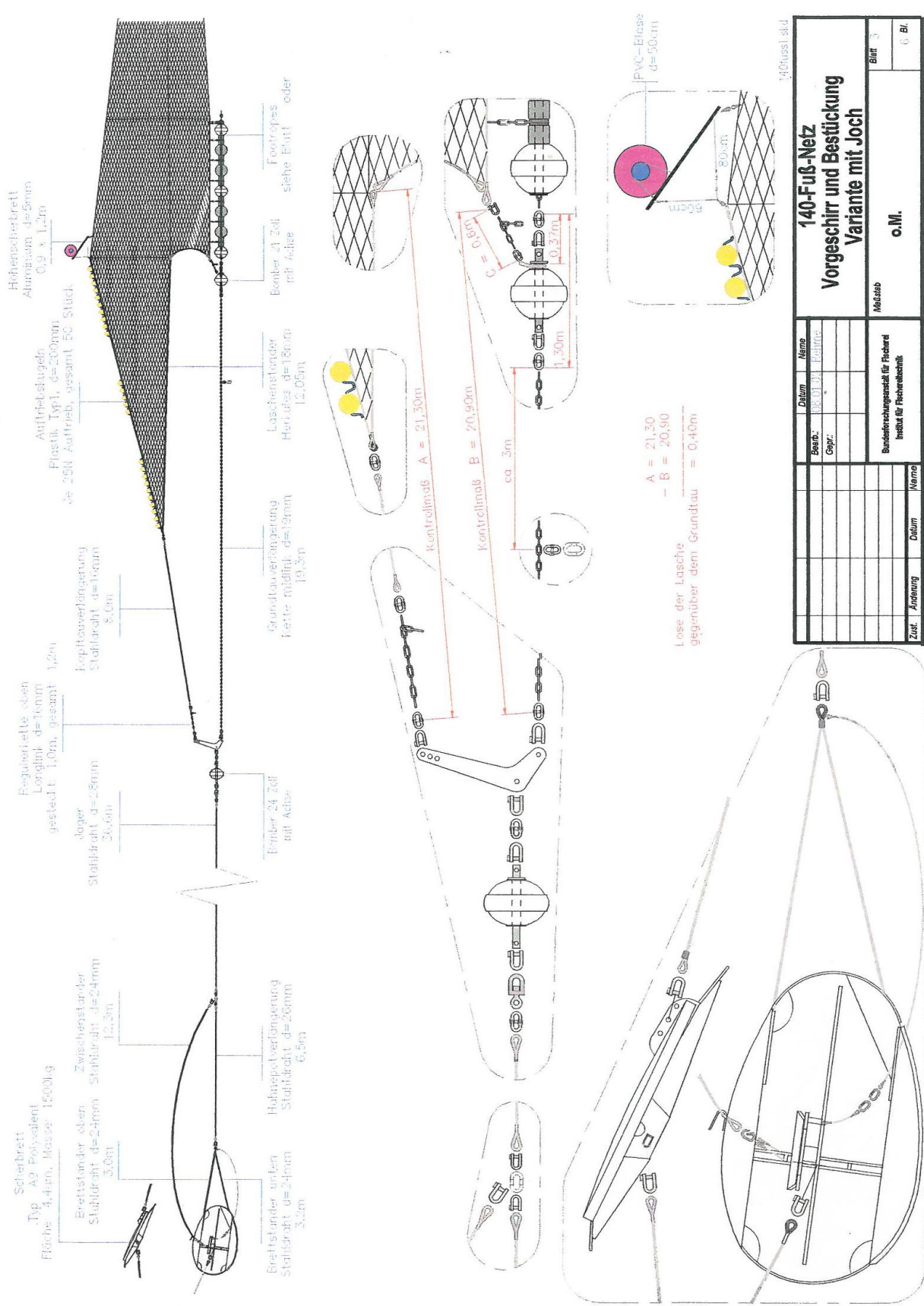
Messstab

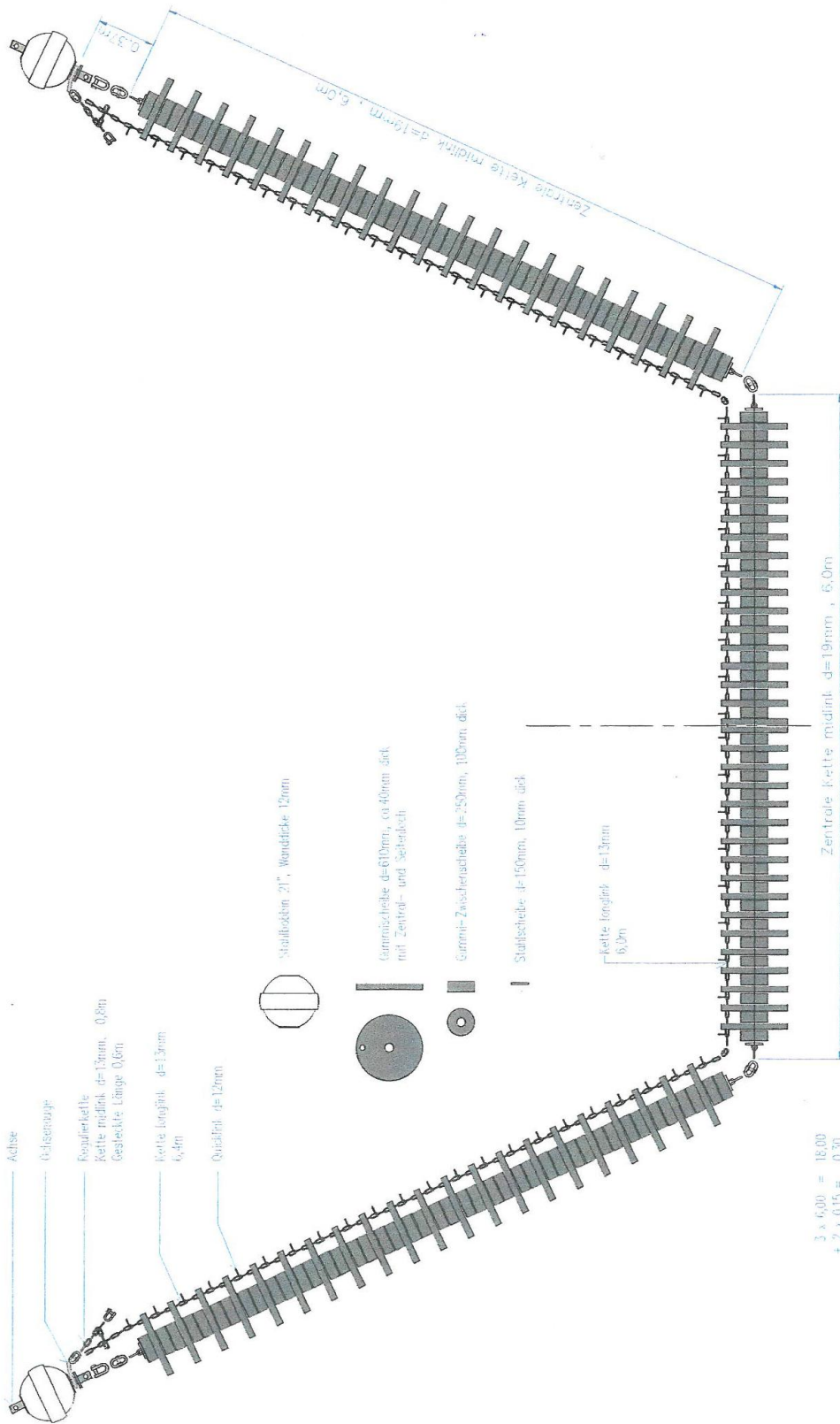
Blatt 1

6 Bl.

Beerb.	Datum	Nr.	Netze
188.01.02			
Gepr.			







$$\begin{aligned}
 3 \times 6,00 &= 18,00 \\
 + 2 \times 0,15 &= 0,30 \\
 + 2 \times 0,37 &= 0,74 \\
 \hline
 19,04 \text{ m} &= \text{Länge des Footropes}
 \end{aligned}$$

$$\begin{aligned}
 \text{Regulierkette} + \text{halbes Grundbau} &= 0,6 + 19,1 / 2 = 10,15 \\
 \text{halbes Footrope} &= 19,04 / 2 = 9,52 \\
 \hline
 0,63 \text{ m} &= \text{Lose des Grundbaus} \\
 &\quad \text{gegenüber dem Footrope}
 \end{aligned}$$

140mestf. bild

Datum		Name	
Bearb.:	18.03.04	Rechner:	
Gepr.:			
Bundrechnungswerk für Fischer Institut für Fischereitechnik			
Zust.	Änderung	Datum	Name
		Mag. Grab	
		o.M.	
			Blatt 6
			1 Bl.

**140-Fuß-Netz  
Footrope 2:  
Rockhopper**