#### Application for Consent to conduct Marine Scientific Research

Date: 03.05.2017

#### 1. General Information

# 1.1 Cruise name and/or number: WH III 411, 29.11.2017 - 19.12.2017

1.2 Sponsoring Institution(s):	
Name:	Thünen Institute of Fisheries Ecology
Address:	Palmaille 9, 22767 Hamburg
Name of Director:	Dr. R. Hanel

1.3 Scientist in charge of the Project:	
Name:	Dr. Thomas Lang
Country:	Germany
Affiliation:	
Address:	Deichstraße 12
	27474 Cuxhaven
Telephone:	+49 4721 38034
Fax:	+49 4721 53583
Email:	thomas.lang@thuenen.de
Website (for CV and photo):	ww.thuenen.de

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:		
Name:		
Affiliation:		
Address:		
Telephone:		
Fax:		
Email:		
Website (for CV and photo):		

#### 2. Description of Project

2.1 Nature and objectives of the project: Monitoring of the occurrence of fish diseases and biological effects of contaminants, OSPAR monitoring, Bottom trawling, hydrography

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

2.3 Relevant previous or future research projects: Cruise No. 377, RV Walther Herwig III, 28.08.-17.09.2014

2.4 Previous publications relating to the project:

#### 3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet. 52,766667 – 58,4170 N / -2,166667 – 16,00000 E

Locations of sampling areas in waters of the coastal State are shown on the map attached. Exact positions for trawling and hydrography within the sampling areas cannot be provided in advance because decisions on trawling positions are made flexibly based on echo sounder findings and weather conditions.

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.

4.1 Particulars of vessel:	
Name:	FRV Walther Herwig III
Type/Class:	
Nationality (Flag State):	German
Identification Number (IMO/Lloyds No.):	IMO 9048392
Owner:	Federal Republic of Germany
Operator:	Bundesanstalt für Landwirtschaft und Ernährung
Overall length (meters):	63,18 m
Maximum draught:	6,20 m
Displacement/Gross Tonnage:	2131
Propulsion:	Diesel / Diesel Electric
Cruising & maximum speed:	13 knots
Call sign:	DBFR
INMARSAT number and method and	
capability	
of communication (including emergency	
frequencies):	
Name of Master:	Vandrei, Jürgen
Number of Crew:	21
Number of Scientists on board:	12

# 4. Methods and means to be used

Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV):		
Name:		
Manufacturer and make/model:		
Nationality (Flag State):		
Website for diagram & Specifications:		
Owner:		
Operator:		
Overall length (meters):		
Displacement/Gross tonnage:		
Cruising & Maximum speed:		
Range/Endurance:		
Method and capability of communication		
(including emergency frequencies):		
Details of sensor packages:		
Other relevant information:		

4.4 other craft in the project, including its use:

and all the second differences and the second se	be used(for fishing	entific instruments to be ι	ds, full description of sci	4.5 Particulars of metho
specify type and dimension) and location				

opeoily type and annone	nong and loodalon		
Types of samples and	Methods to be used:	Instruments to be	To be carried out
Measurements:		used:	within 12nm (yes or
			no):
Fish	Bottom Trawling	140' bottom trawl (see	no
		attachment)	
		GOV with rock hopper	no
		(see attachment)	
Hydrography	CTD Measurement	CTD	no

4.6 Indicate nature and quantity of substances to be released into the marine environment: none

4.7 Indicate whether drilling will be carried out. If yes, please specify:

no

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name, Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of Detonation, and position in latitude and longitude:

no

#### 5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):

none

#### 6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:

Although the sampling plan has to be made in a flexible way, e.g., depending on weather conditions and success of sampling, it is expected that WH III will enter waters of the coastal State in the second week of December and will depart 4 days later after having visited areas N22, N04, N05 and N06. 6.2 Indicate if multiple entries are expected: no

# 7. Port Calls

7.1 Dates and Names of intended ports of call:

none

7.2 Any special logistical requirements at ports of call:

no

7.3 Name/Address/Telephone of shipping agent (if available):

no

# 8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research Project:

Participation is not possible because accommodation is not available.

8.2 Proposed dates and ports for embarkation/disembarkation:

29.11.2017 Bremerhaven for embarkation, 19.12.2017 Bremerhaven for disembarkation

# 9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include The expected dates of submission of the data and research results: No preliminary reports issued

9.2 Anticipated dates of submission to the coastal State of the final report:

31.05.2018 at the latest

9.3 Proposed means for access by coastal State to data (including format) and samples:

Direct contact to scientist in charge

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:

Direct contact to scientist in charge

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:

Direct contact to scientist in charge

9.6 Proposed means of making results internationally available: Publication, submission of data to the ICES Data Centre

# 10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending): none

#### 11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

Map Excel file with coordinates of sampling areas Gear specification forms

Signature:

The y

Contact information of the focal point: Name: Country: Affiliation: Address:

Telephone: Fax: Email: Dr. Thomas Lang Germany Thünen Institute of Fisheries Ecology Deichstraße 12 27472 Cuxhaven +49 4721 38034 +49 4721 53583 thomas.lang@thuenen.de

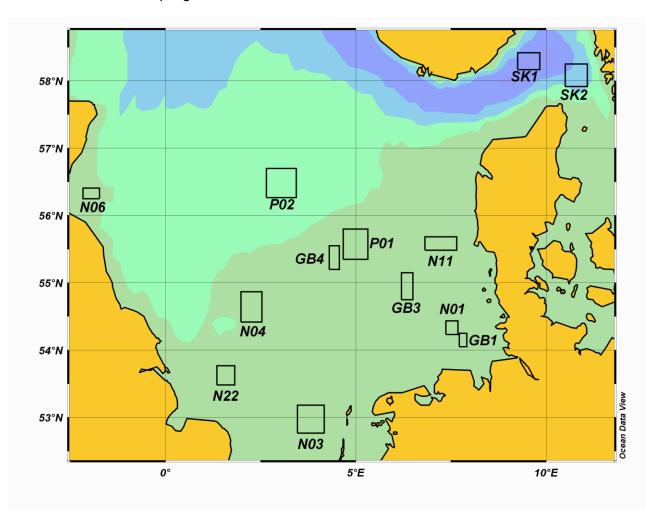
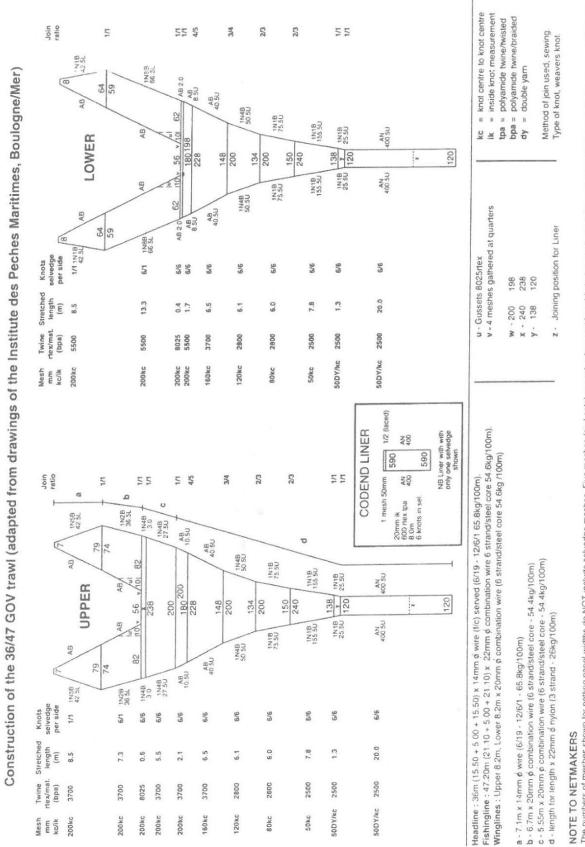
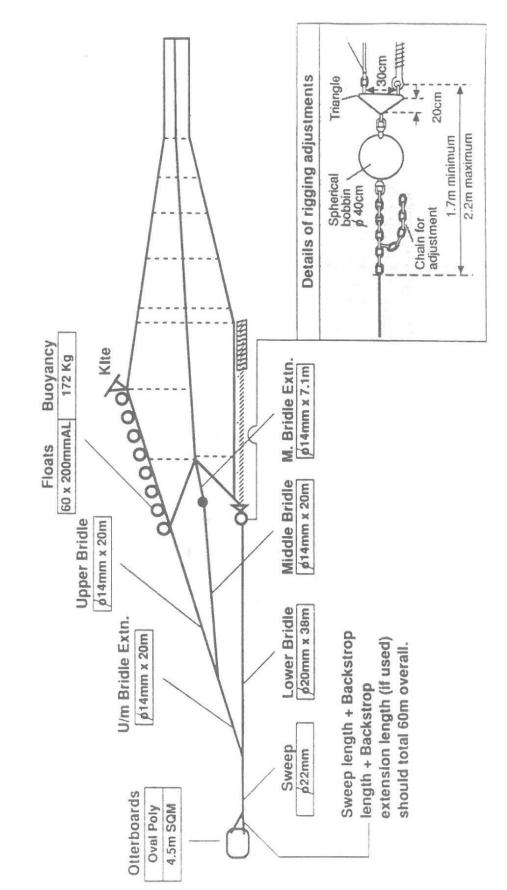


Fig. 1: Cruise 411 FRV "Walther Herwig III", 29.11.2017 - 19.12.2017, Location of sampling sites, North Sea



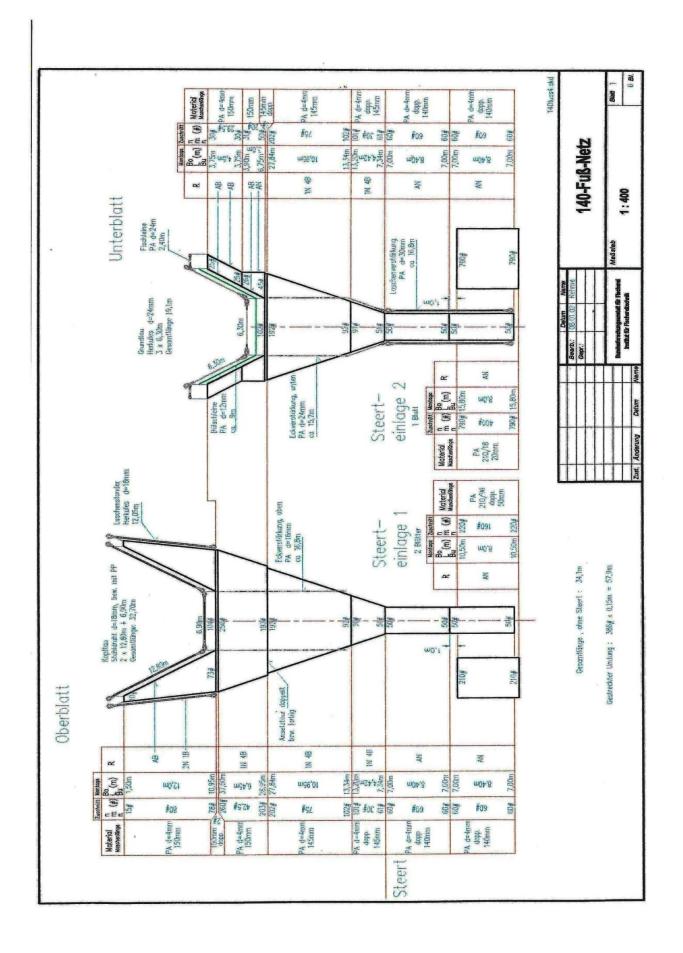
# GOV standard fishing gear (trawl construction)

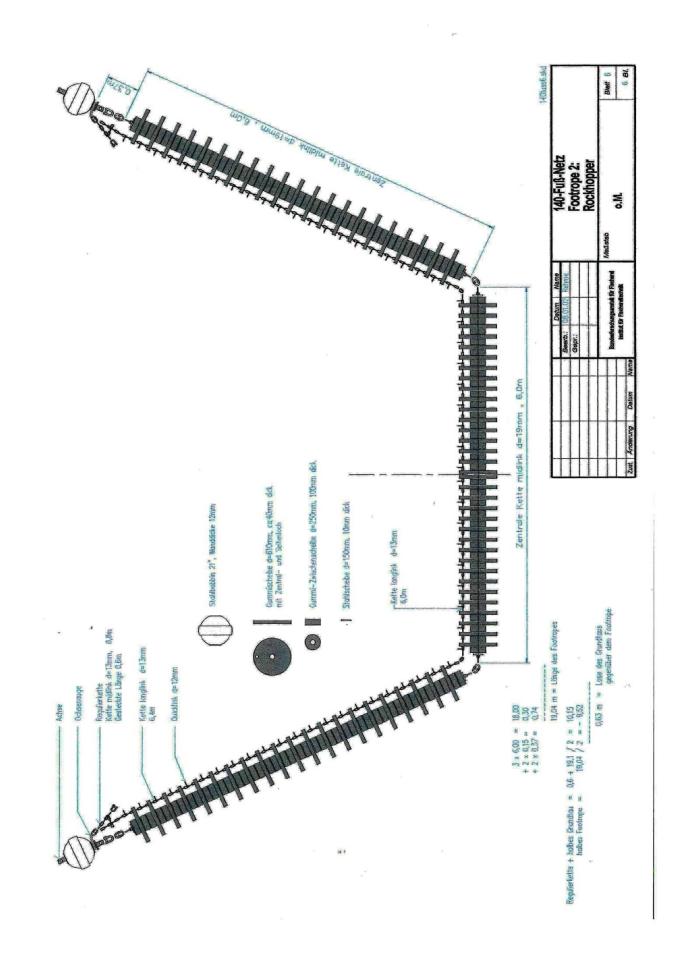
The numbers of meshes shown for netting panel widths do NOT include selvedge meshes. Five meshes (six knots) per selvedge must be added where indicated. Conversely to obtain panel depths one row (1/2 mesh) must be subtracted from each panel as the joining row is included in the number of meshes deep.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



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

GOV standard fishing gear (rigging)





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