Application for Consent to conduct Marine Scientific Research

Date: 11.04.2019

1. General Information

1.1 Cruise name and/or number:WH III 432,02.12.2019 – 22.12.2019

1.2 Sponsoring Institution(s):	
Name:	Thünen Institute of Fisheries Ecology
Address:	Herwigstraße 31, 27572 Bremerhaven
Name of Director:	Prof.Dr. R. Hanel

1.3 Scientist in charge of the Project:	
Name:	Dr.Pedro Miguel Agostinho Nogueira
Country:	Germany
Affiliation:	
Address:	Herwigstraße31
	27572Bremerhaven
Telephone:	+49 471 94460-410
Fax:	+49 471 94460-199
Email:	Pedro.nogueira@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, sediment sampling, sea surface plankton sampling, hydrography, echo registration

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. 408, RV Walther Herwig III, 24.08.-13.09.2017

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 (Waters off England, Scotland and Wales)

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 (FlagState):	German
Identification Number (IMO/Lloyds No.):	IMO 9048392
Owner:	Federal Republic of Germany
Operator:	Bundesanstalt für Landwirtschaft und Ernährung Referat 524, Haubachstr. 86, 22765 Hamburg, Niels Grube - Tel: +49 (0)228 6845 5534
Overall length (meters):	63,18 m
Maximum draught:	6,20 m
Displacement/Gross Tonnage:	2131
Propulsion:	Diesel / Diesel Electric
Cruising & maximum speed:	11,5 – 14,5 knots
Call sign:	DBFR
INMARSAT number and method and capability of communication (including emergency frequencies):	Phone +870 773 236 187 (Bridge) Fax +870 783 209 565 Email: Wherwig.kapitaen@fischereiforschung.eu
Name of Master:	Janßen, Hans-Otto
Number of Crew:	21
Number of Scientists on board:	12

4 Methods and means to be used

4.2 Particulars of Aircraft:	
Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication	
(including emergency frequencies):	

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 (FlagState):		
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:

4.5 Particulars of methor specify type and dimension		entific instrumentsto be u	used(for fishing gear
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Fish	Bottom Trawling	140' bottom trawl (see attachment)	no
		GOV with rock hopper (see attachment)	no
Plankton	Sea surface plankton trawling	Towed Neuston plankton sampler	no
Sediment	Sediment grab	Van Veen graband Geminicorer	Yes
Hydrography	CTD Measurement	CTD	no
Echo registration	Hydro acoustics	SK60 Echosounder	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 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:

02.12.2019 Bremerhaven for embarkation, 22.12.2019 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:

31.05.2020 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:

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

Telephone: Fax: Email: Dr. Pedro Miguel Agostinho Nogueira Germany Thünen Institute of Fisheries Ecology Herwigstraße31 27572 Bremerhaven +49 471 94460-410 +49 471 94460-199 pedro.nogueira@thuenen.de

United Kingdom				
Area	Latitude	Longitude		
G01	58°50.00'N - 59°00.00'N	05°00.00'W - 04°30.00'W		
G02	58°30.00'N - 58°45.00'N	06°00.00'W - 05°50.00'W		
G03	56°48.00'N - 56°60.00'N	06°55.00'W - 07°05.00'W		
G04	55°45.00'N - 55°55.00'N	07°00.00'W - 07°15.00'W		
G05	54°20.00'N - 54°40.00'N	04°25.00'W - 03°50.00'W		
G06	49°35.00'N - 50°00.00'N	05°50.00'W - 05°22.00'W		
G07	50°30.00'N - 50°35.00'N	03°20.00'W - 02°80.00'W		
G08	50°40.00'N - 50°51.00'N	00°50.00'E - 00°30.00'E		
N04	54°25.00'N - 54°52.00'N	01°59.00'E - 02°32.00'E		
N06	56°15.00'N - 56°24.42'N	01°44.00'W - 02°10.00'W		
N07	57°45.00'N - 58°00.00'N	01°20.00'E - 00°46.00'E		
N22	53°29.00'N - 53°46.00'N	01°21.00'E - 01°49.00'E		
E03	51°10.00'N - 51°25.00'N	06°35.00'W - 06°10.00'W		

Table 1: Cruise 432FRV "Walther Herwig III", 02.12. – 22.12.2019, Geographical coordinates, UK

Table 2: Cruise 432FRV "Walther Herwig III", 02.12. – 22.12.2019, Geographicalcoordinates from sediment sampling in the Irish Sea, UK

sample	Station	Lat	Lon	water	sediment
		DD.MMmm	DD.MMmm		Gemini
1	50	54,1700	-05,0500		x
2	62A	54,3500	-03,4000		x
3	62B	54,3216	-03,3993		x
4	64A	54,2800	-03,4400		x
5	64B	54,2410	-03,4590		x
6	64D	54,2500	-03,3700		x
7	64E	54,2494	-03,3380		x
8	67A	54,2190	-03,3311		x
9	67B	54,2000	-03,4200		x
10	70A	54,1000	-03,4500		x

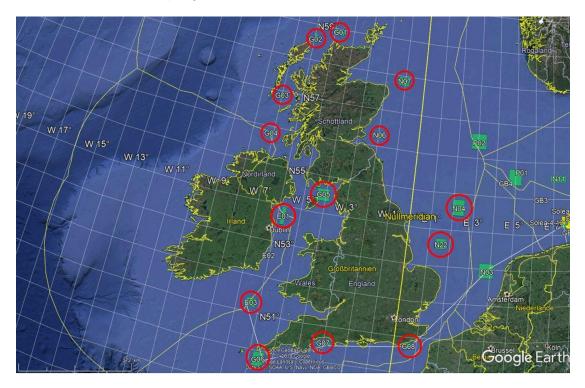


Fig. 1: Cruise 432FRV "Walther Herwig III", 02.12.2019 -22.12.2019, Location of sampling sites, UK

Area N22, N04, G08, G07, G06 and E01 waters off England. Area N06, N07, G01, G02, G03, G04 waters off Scotland. Area G05 waters off England and Scotland. Area E03 waters off Wales.

Fig. 1a: Cruise 432FRV "Walther Herwig III", 02.12.2019 -22.12.2019, Location of sampling sites, UK

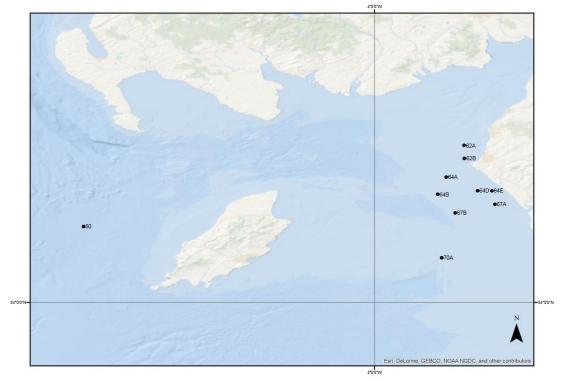


Area G08, G07 and G06 waters off England. Area E03 waters off Wales.

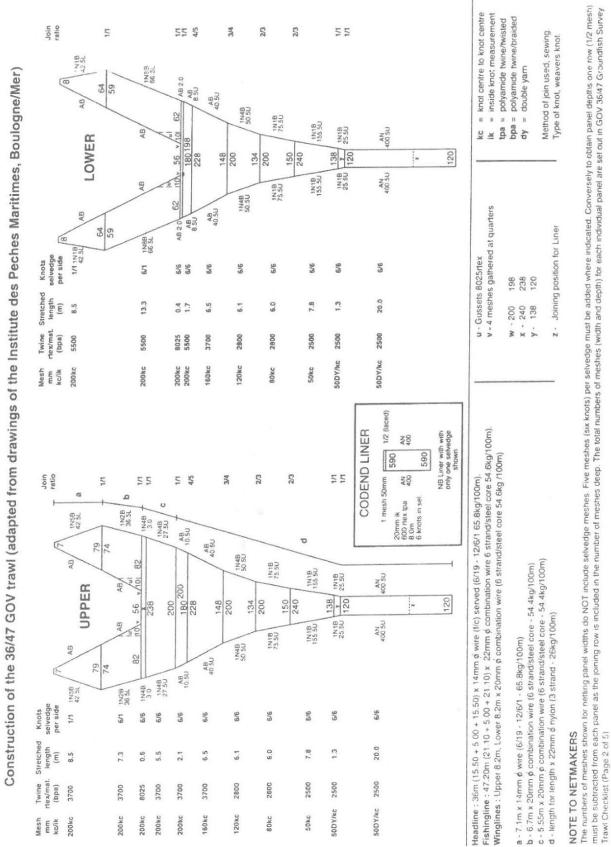
Fig. 2: Cruise 432FRV "Walther Herwig III", 02.12. – 22.12.2019, Geographical coordinates from sediment sampling in the Irish Sea, UK

Fig. 2a: Cruise 432FRV "Walther Herwig III", 02.12. – 22.12.2019, Geographical coordinates from sediment sampling in the Irish Sea, UK

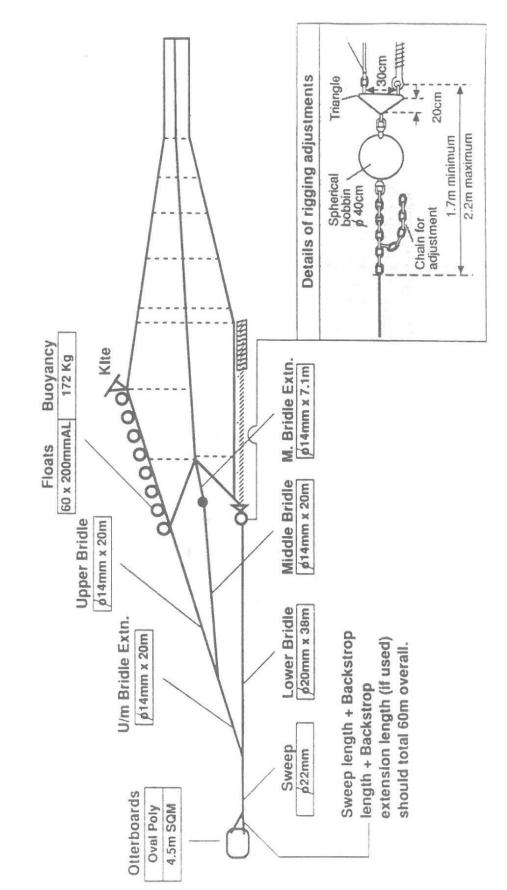
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All Areas from Sediment Sampling are in the Irish Sea

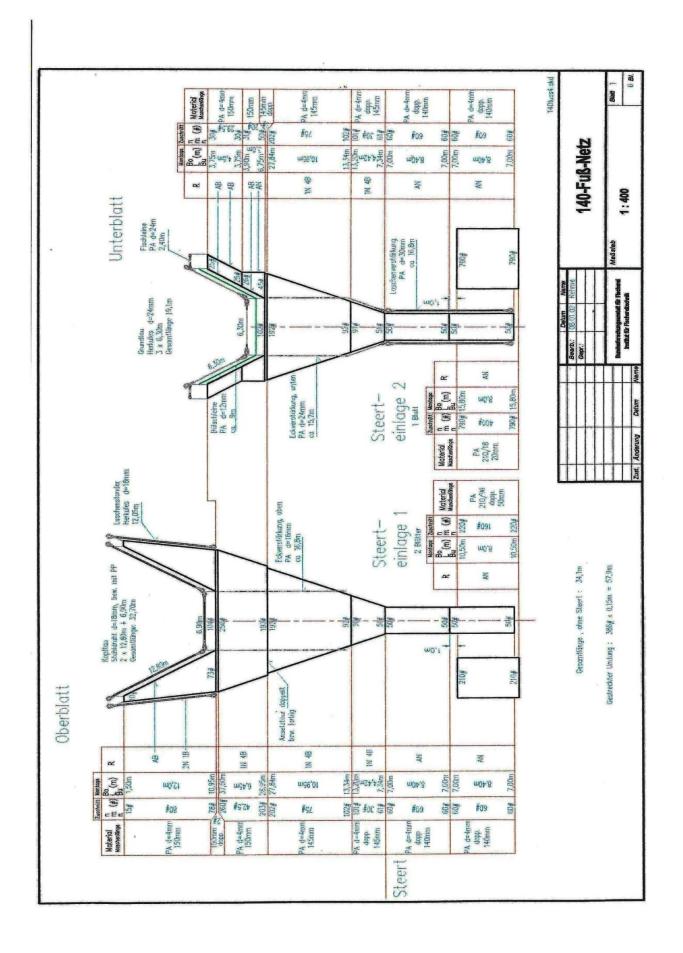


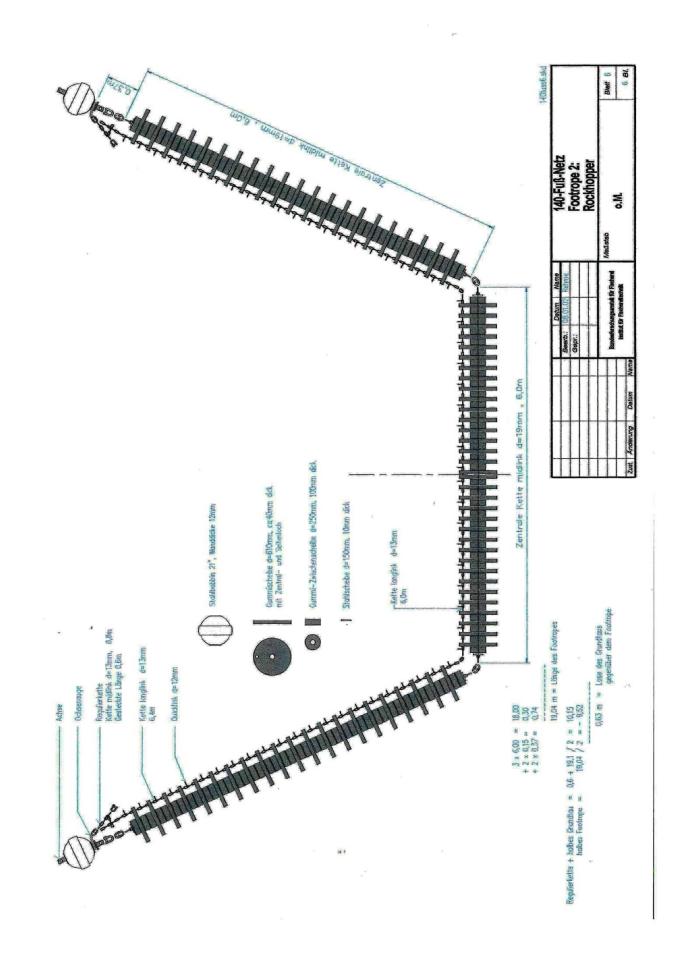
GOV standard fishing gear (trawl construction)



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

GOV standard fishing gear (rigging)





GB

