Application for Consent to conduct Marine Scientific Research

Date: 13.02.2017

General Information			
1.1 Cruise name and/or number: WH III 408, 24.08.2017 –13.09.2017			
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:	Thünen Institute of Fisheries Ecology		
Address:	Deichstraße 12, 27472 Cuxhaven		
Telephone:	+49 (0) 4721 38034		
Fax:	+49 (0) 4721 53583		
Email:	Thomas.lang@thuenen.de		
Website (for CV and photo):	www.thuenen.de		
1.4 Entity(ies)/Participant(s) from coastal State	involved in the planning of the project:		
Name:	inverved in the planning of the project.		
Affiliation:			
Address:			
Telephone:			
Fax:			
Email:			
Website (for CV and photo):			
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2. Description of Project			
2.1 Nature and objectives of the project:			
2.1 Nature and objectives of the project:			
Monitoring of the occurrence of fish diseases and biological effects of contaminants, OSPAR/HELCOM monitoring, DAIMON project, 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, 28.0817.09.2014			
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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. Methods and means to be used

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	

4.2 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				
Details of sensor package	ges:			
Other relevant information	on:			
			_	
4.3 Particulars of Autono	omous Underwater Vehi	icle (AUV):		
Name:				
Manufacturer and make	/model:			
Nationality (Flag State):				
Website for diagram & Specifications:				
Owner:				
Operator:				
Overall length (meters):				
Displacement/Gross ton				
Cruising & Maximum sp				
Range/Endurance:				
Method and capability of	f communication			
(including emergency fre				
Details of sensor package				
Other relevant information				
4.4 other craft in the pro	ject, including its use:			
•	, ,			
4.5 Particulars of metho	ds, full description of sc	ientific instruments to be	used(for fishing gear	
specify type and dimens			, 33	
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	
	0=== 11	(see attachment)		
Hydrography	CTD Measurement	CTD	no	
4.6 Indicate nature and	quantity of substances t	o be released into the m	arine environment:	
none				
471. Page 1 all as 12	Para Hillaria de Carta de Carta	16		
4.7 Indicate whether dril	ling will be carried out.	ir yes, piease specity:		
no				
4.0 Indicate whather are	المورية والتربية	van plane enerify tyme	and trade name	
		yes, please specify type		
Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of				
Detonation, and position	i in latitude and longitud	e:		
no				
e lacendo a la legación de				
5. Installations and Equipment				
Dataile of installations and assumment (including datas of large entry)				
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):				
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nono				
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 first week of September 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:
- 24.08.2017 Bremerhaven for embarkation, 13.09.2017 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:

30.12.2017 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.:

Мар

Excel file with coordinates of sampling areas

Gear specification forms

Signature:

Contact information of the focal point:

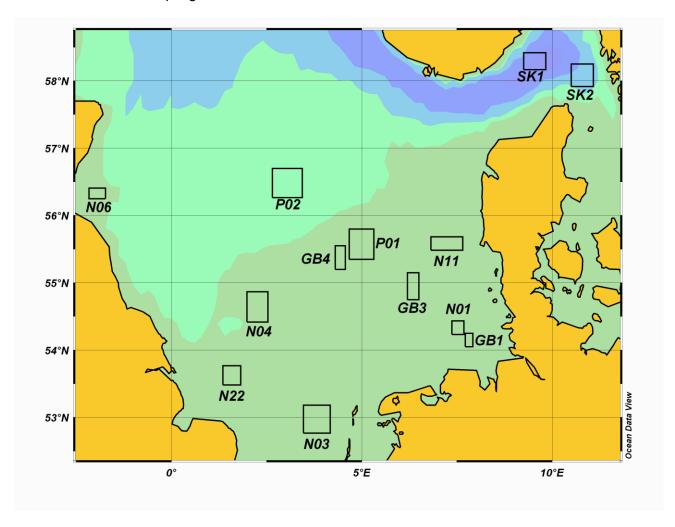
Name: Dr. Thomas Lang

Country: Germany

Affiliation: Thünen Institute of Fisheries Ecology
Address: Deichstraße 12, 27472 Cuxhaven

Telephone: +49 (0) 4721 38034 Fax: +49 (0) 4721 53583 Email: thomas.lang@thuenen.de

Fig. 1: Cruise 408 FRV "Walther Herwig III", 24.08.2017 - 13.09.2017, Location of sampling sites, North Sea





Method of join used, sewing. Type of knot, weavers knot.

z - Joining position for Liner

238

w - 200 x - 240 y - 138

GOV standard fishing gear (trawl construction)

kc = knot centre to knot centre ik = inside knot measurement tpa = polyamide twine/twisted bpa = polyamide twine/braided dy = double yam Join 1/1 ZZ \$ 3/4 23 273 55 Construction of the 36/47 GOV trawl (adapted from drawings of the Institute des Peches Maritimes, Boulogne/Mer) AB 2.0 59 8 SU 1N48 50.5U 62 1N1B 185.5U 1N1B OO SU LOWER 138 120 228 228 150 148 134 . 400 5U 1N1B 1N4B 50.5U AB B.S.U 59 64 1N8B 66 St 1/1 1N1B 42.5L selvedge per side u - Gussets 8025rtex 9/9 9/9 9/9 671 9/9 9/9 9/9 9/9 Stretched 20.0 1.3 13.3 6.5 6.1 6.0 7.8 4.7 Twine rtex/mat. 2500 2500 (pba) 5500 5500 8025 2800 2800 2500 50DY/kc 50DY/kc Mesh mm kc/lk 200kc 200kc 120kc 200kc 160kc Soke 80kc 1/2 (laced) NB Liner with with only one selvedge shown CODEND LINER 488 488 590 23 11 3/4 53 A88 Join 1/1 55 1/1 1 mesh 50mm Headline: 36m (15.50 + 5.00 + 15.50) x 14mm ø wire (1/c) served (6/19 - 12/6/1 65.8kg/100m) 20mm ik 600 rtex tpa 8.0m 6 knots in sel. Ω 1N2B 36.5L 1N4B 3.0 1N4B 27.5U AB 10.50 O 79 40.5U 1N4B 50 5U 1N1B 75.5U 1N1B 25.5U 400 SU UPPER 138 120 134 150 148 180 1N1B AN AN 400 SU 185.5U 1N18 75.5U 1N4B 50 5U 74 1N4B 27 5U 3 O B 1N58 1N28 36.5L seivedge per side 1/1 9/9 9/9 9/9 9/9 9/9 9/9 9/9 5/6 159 6/5 20.0 33 8.0 5.5 6.5 6.1 2.1 2800 2500 2500 3700 3700 2800 3700 8025 3700 3700 SODYAKe SODY/kc 200kc 150kc 20kc 200kc 200kc 200kc 80kc SOKC Mesh mm kcsk

FishIngline: 47.20m (21.10 + 5.00 + 21.10) x 22mm ¢ combination wire 6 strand/steel core 54.6kg/100m) Winglines: Upper 8.2m, Lower 8.2m x 20mm of combination wire (6 strand/steel core 54.6kg /100m)

v - 4 meshes gathered at quarters

a - 7.1m x 14mm 6 wire (6/19 - 12/6/1 - 65.8kg/100m)

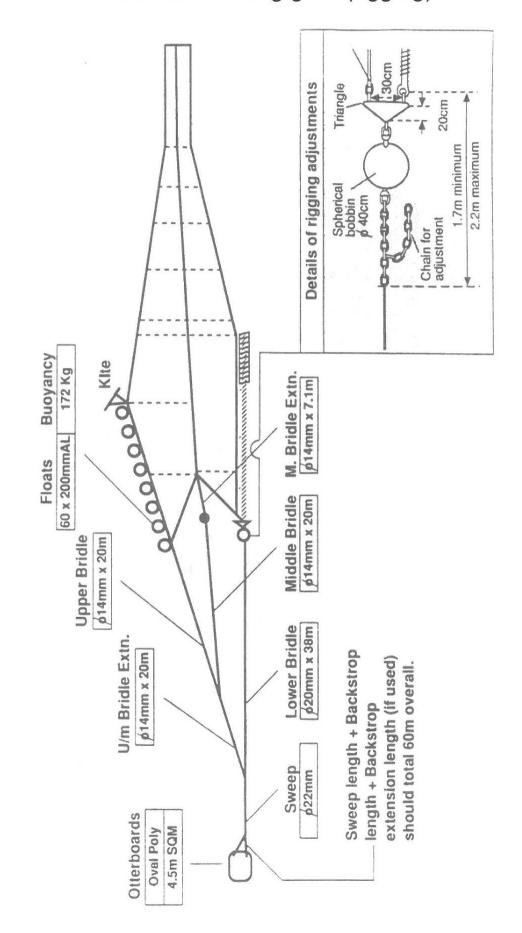
c - 5.55m x 20mm o combination wire (6 strand/steel core - 54.4kg/100m) b - 6.7m x 20mm \$ combination wire (6 strand/steel core - 54.4kg/100m)

d - length for length x 22mm of nylon (3 strand - 26kg/100m)

NOTE TO NETMAKERS

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 are set out in GOV 36/47 Groundfish Survey Trawl Checklist (Page 2 of 5)

GOV standard fishing gear (rigging)



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

