

Application for Consent to conduct  
Marine Scientific Research

Date: 18.04.18

1. General Information

1.1 Cruise name and/or number:	
FRV "Walther Herwig III"	Cruise No. 420

1.2 Sponsoring Institution(s):	
Name:	Thünen-Institute of Sea Fisheries
Address:	Herwigstrasse 31, 27572 Bremerhaven, Germany
Name of Director:	Dr. Gerd Kraus

1.3 Scientist in charge of the Project:	
Name:	Dr. Norbert Rohlf
Country:	Germany
Affiliation:	Thünen-Institute of Sea Fisheries
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Telephone:	+49-471-94460-331
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Email:	norbert.rohlf@thuenen.de
Website (for CV and photo):	<a href="http://www.thuenen.de/en/sf/staff/wissenschaftliches-personal/rohlf-norbert-dr/">http://www.thuenen.de/en/sf/staff/wissenschaftliches-personal/rohlf-norbert-dr/</a>

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Dr. Susan Lusseau
Affiliation:	Marine Scotland, Aberdeen
Address:	375 Victoria Road
Telephone:	+44 (0)1224 295531
Fax:	
Email:	susan.lusseau@scotland.gsi.gov.uk
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:
The cruise is part of the ICES International Herring Larvae Surveys in 2018. The programme focuses on the abundance and spatial distribution of herring and other fish larvae. All samples are taken on a standard grid using of a plankton sampler ("Nackthai", a modified Gulf sampler). Stations are approximately 10 nm apart.

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:
ICES IHLS, project conducted each year since 1972.

2.3 Relevant previous or future research projects:
The annual survey estimate is used as a biomass indicator in the assessment of North Sea herring.

2.4 Previous publications relating to the project:
ICES Report of the herring assessment working group

### 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.

North Sea between 56.000 N and 60.000 N and from 4.000 W to 0.000 W

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.

- see chart at the end of this document -

### 4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Walther Herwig III
Type/Class:	Fisheries Research Vessel (+100A5E2)
Nationality (Flag State):	Germany
Identification Number (IMO/Lloyds No.):	9048392
Owner:	Federal Republic of Germany
Operator:	Bundesanstalt für Landwirtschaft und Ernährung, Referat 524, Haubachstr. 86, 22765 Hamburg
Overall length (meters):	63,18 m
Maximum draught:	6,20 m
Displacement/Gross Tonnage:	2131 BRZ
Propulsion:	Diesel-Electric
Cruising & maximum speed:	11.5 & 14.5
Call sign:	DBFR
INMARSAT number and method and capability of communication (including emergency frequencies):	Phone +870 773 236 187 Fax +870 783 209 565 Email: <a href="mailto:wherwig.kapitaen@fischereiforschung.eu">wherwig.kapitaen@fischereiforschung.eu</a>
Name of Master:	Jürgen Vandrei or deputy
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 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:

4.5 Particulars of methods and full description of scientific instruments to be used(for fishing gear specify type and dimension) and location			
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no)
Plankton	double oblique tows from surface to near bottom	GULF-type plankton sampler "Nackthai", 20 cm aperture, mesh size 300 micron	yes
Water physics	temperature + salinity	CTD	yes

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:
- none -

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:
- none -

## 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):
- no installations, no moorings -

## 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:
09/15/18 – 09/24/18
6.2 Indicate if multiple entries are expected:

not expected
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## 7. Port Calls

7.1 Dates and Names of intended ports of call:
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no port of call intended
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7.2 Any special logistical requirements at ports of call:
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7.3 Name/Address/Telephone of shipping agent (if available):
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## 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:
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Representatives can join the full cruise with prior notice to the cruise leader
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8.2 Proposed dates and ports for embarkation/disembarkation:
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No port call intended. If observers want to participate, prior contact to the cruise leader would be helpful to ensure that ports will be included in the cruise for embarkation/disembarkation
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## 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:
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December 2018
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9.2 Anticipated dates of submission to the coastal State of the final report:
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January 2019
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9.3 Proposed means for access by coastal State to data (including format) and samples:
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March 2019, Excel spreadsheet
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9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:
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March 2019, Excel spreadsheet
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9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:
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March 2019, ICES Herring Assessment Working Group
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9.6 Proposed means of making results internationally available:
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April 2019, ICES data centre
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## 10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):
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- None -
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## 11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:
Excel file containing positions of proposed station grid (WH 420 Positions)



Signature: (Dr. Norbert Rohlf)

## Contact information of the focal point:

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Country: Germany  
Affiliation:  
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Fax: +49 471 94460-199  
Email: sf@thuenen.de

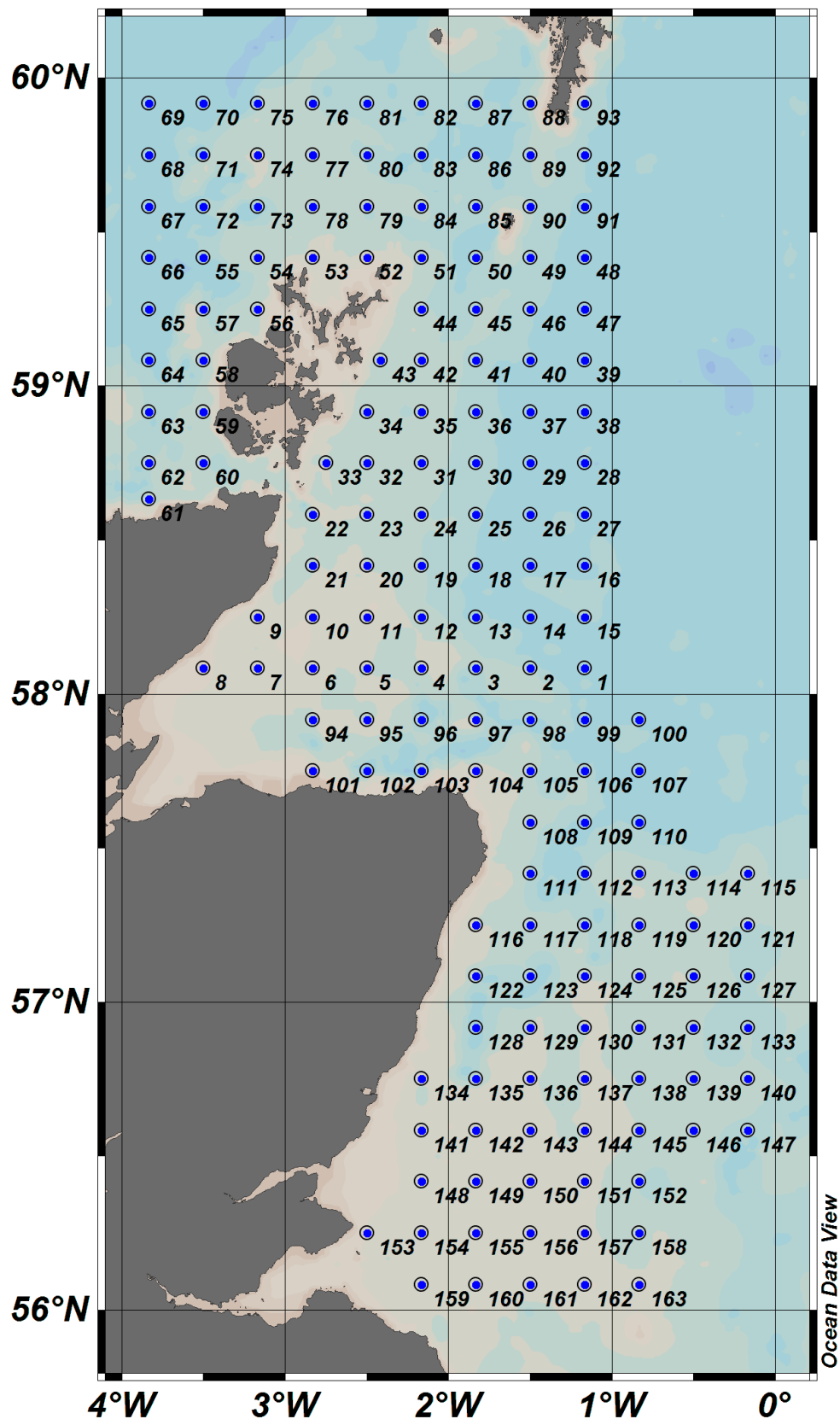


Figure 1: proposed station grid FRV „Walther Herwig III“, 09/14/18 – 09/25/18