

Application for Consent to conduct  
Marine Scientific Research

Date: \_\_10.02.2020\_\_

1. General Information

1.1 Cruise name and/or number:	
FRV 'Solea'	Cruise No.780

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. Vanessa Stelzenmüller/ Dr. Nikolaus Probst
Country:	Germany
Affiliation:	Thünen Institute of Sea Fisheries
Address:	Herwigstrasse 31, 27572 Bremerhaven
Telephone:	+49 471 94460 381
Fax:	+49 471 94460 199
Email:	Vanessa.stelzenmueller@thuenen.de
Website (for CV and photo):	<a href="https://www.thuenen.de/de/sf/personal/wissenschaftliches-personal/stelzenmueller-vanessa-dr/">https://www.thuenen.de/de/sf/personal/wissenschaftliches-personal/stelzenmueller-vanessa-dr/</a> <a href="https://www.thuenen.de/de/sf/personal/wissenschaftliches-personal/probst-wolfgang-nikolaus-dr/">https://www.thuenen.de/de/sf/personal/wissenschaftliches-personal/probst-wolfgang-nikolaus-dr/</a>

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Ian Holmes
Affiliation:	CEFAS
Address:	Lowestoft, Suffolk NR33 0HT
Telephone:	+44 1502 562244
Fax:	+44 1502 513865
Email:	ian.holmes@cefass.co.uk
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:	
German small scale bottom trawl survey (GSBTS; "Box"-Fishery):	
<ul style="list-style-type: none"> <li>Investigation and monitoring of the bottom fish fauna in the southern North Sea</li> <li>Assessment of hydrographic parameters in the areas of investigation and general operational methods</li> <li>Bottom trawling (gear specification attached)</li> <li>CTD with water sampler</li> </ul>	

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:
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The survey is carried out regularly as a German standard program since 1989.
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2.4 Previous publications relating to the project:
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Ehrich, S. et al (2007). 20 years of the German Small-Scale Bottom Trawl Survey (GSBTS): A review. <i>Senckenbergiana maritima</i> . 37(1): 13-82.
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Ehrich, S. et al. (1998). ICES CM J:25, 7 pp.
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### 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.
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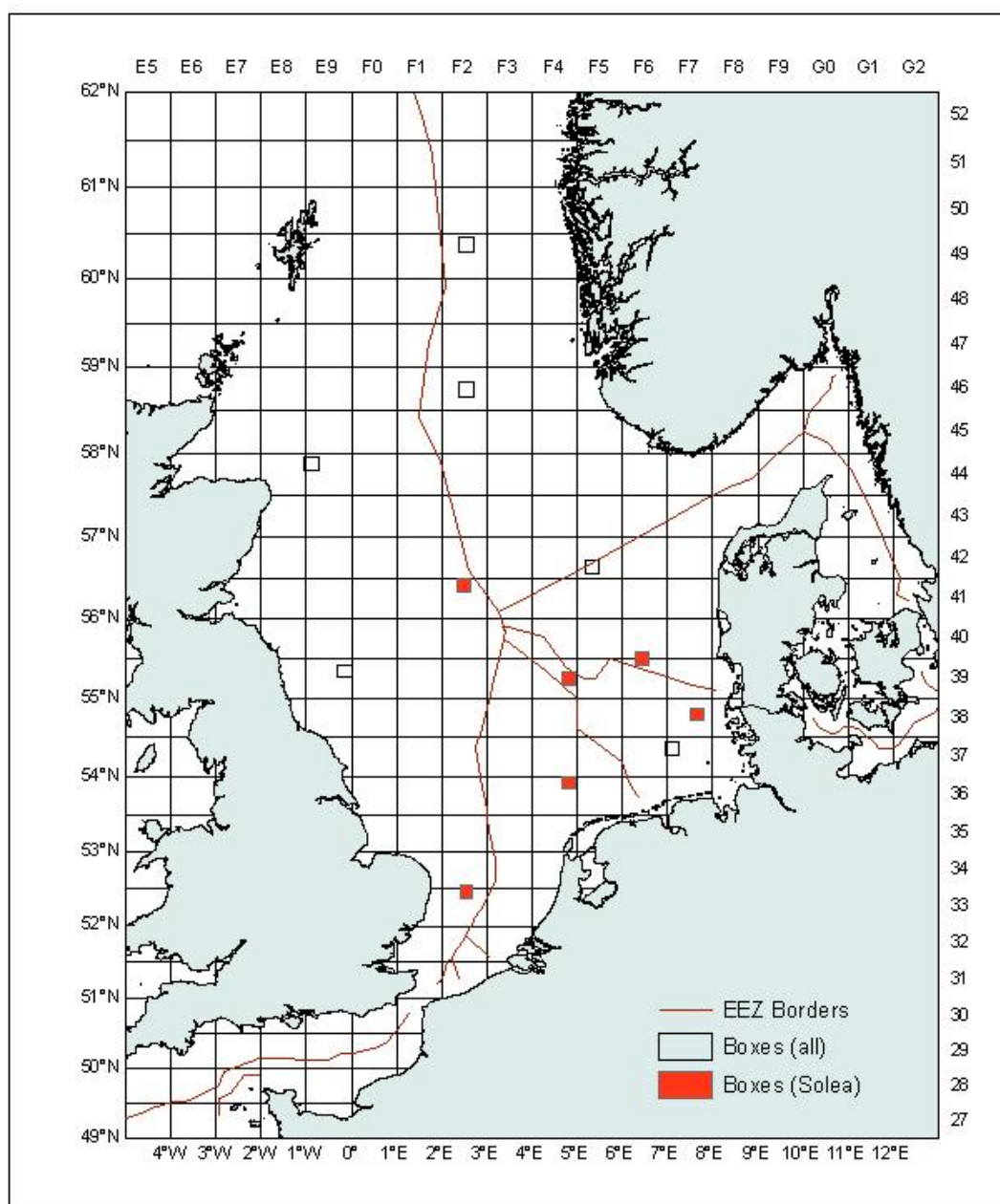
Sampling will take place England in a distinct sampling areas referred to as box F. The decimal coordinates of the sampling are listed in the attached file.
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3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical
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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.
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# AREAS OF INVESTIGATION (BOXES)

## Research Vessel 'SOLEA'



Mercator Projection (WGS 1984)

Location of sampling sites (filled squares) fished by FRV 'Solea' during SO751

## 4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Solea
Type/Class:	Fisheries Research Vessel (+100 A5 K (50)
Nationality (Flag State):	Germany
Identification Number (IMO/Lloyds No.):	9314583
Owner:	Federal Republic of Germany
Operator:	Bundesanstalt für Landwirtschaft und Ernährung, Referat 533, Haubachstraße 86, 22765 Hamburg Phone: +49 228 6845-5534 Fax: +49 30 1810 6845- 5555
Overall length (meters):	42,74
Maximum draught:	4,20
Displacement/Gross Tonnage:	638 BRZ
Propulsion:	Diesel Electric
Cruising & maximum speed:	
Call sign:	DBFH
INMARSAT number and method and capability of communication (including emergency frequencies):	+ 870 773 900 091
Name of Master:	Volker Koops or deputy
Number of Crew:	
Number of Scientists on board:	7

4.2 Particulars of Aircraft:	
Name:	none
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:	none
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:
none

4.5 Particulars of methods, 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):
Fish fauna composition, biomass and length	Trawling	Cod-hopper (specification see attachment)	no
Water sampling		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:
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):
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:
3 days within the period of 22/07/2020 to 11/08/2020
6.2 Indicate if multiple entries are expected:
No

## 7. Port Calls

7.1 Dates and Names of intended ports of call:
Possibly two days within the period from 22/07/2020 to 11/08/2020 in Lowestoft, UK.

7.2 Any special logistical requirements at ports of call:

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

## 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:

8.2 Proposed dates and ports for embarkation/disembarkation:

## 9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include
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The expected dates of submission of the data and research results:
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15 <sup>th</sup> of October 2020
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9.2 Anticipated dates of submission to the coastal State of the final report:
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30 <sup>th</sup> of October 2020
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9.3 Proposed means for access by coastal State to data (including format) and samples:

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

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

9.6 Proposed means of making results internationally available:

## 10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

## 11. List of Supporting Documentation

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

Signature: (Vanessa Stelzenmüller)

Contact information of the focal point: -

Name:

Country:

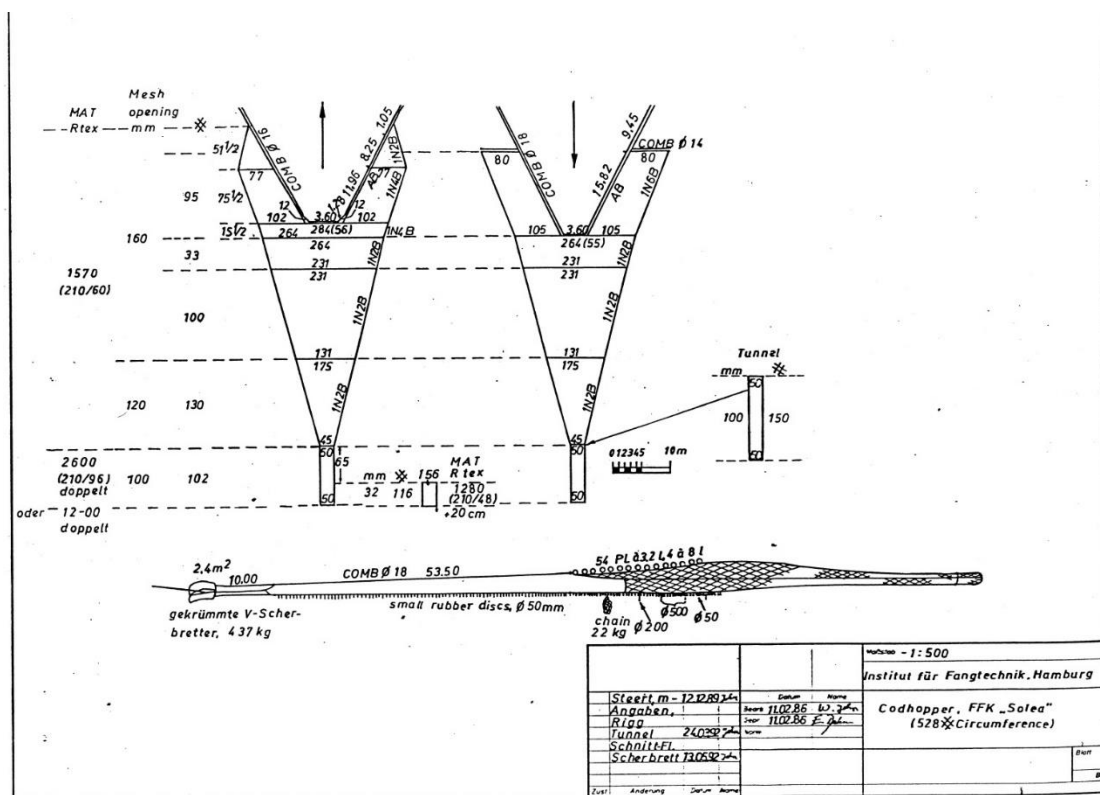
Affiliation:

Address:

Telephone:

Fax:

Email:



Specification of the gear (Codhopper)