

Application for Consent to conduct  
Marine Scientific Research

Date: 31.01.2014

1. General Information

1.1 Cruise name and/or number: Walther Herwig 376
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1.2 Sponsoring Institution(s):	
Name:	Thünen Institute of Sea Fisheries
Address:	Palmaille 9, D- 22767 Hamburg, Germany
Name of Director:	Dr. Gerd Kraus

1.3 Scientist in charge of the Project:	
Name:	Dr. Anne Sell
Country:	Germany
Affiliation:	Thünen Institute of Sea Fisheries
Address:	Palmaille 9, D- 22767 Hamburg, Germany
Telephone:	+ 49-40-38905 246
Fax:	+49-40-38905 263
Email:	Anne.sell@ti.bund.de
Website (for CV and photo):	www.ti.bund.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:
<p><i>Participation in the ICES coordinated International Bottom Trawl Survey (IBTS) 2014 Q3 in the North Sea, and conducting the annual Q3 German Small-scale Bottom Trawl Survey (GSBTS). - Demersal trawling survey to assess year strengths and stock size indices for cod, whiting and others (IBTS). - Monitoring of fish assemblages and benthos in small defined areas (GSBTS).</i></p>

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:
<p><i>International Bottom Trawl Survey (IBTS): International Council for the Exploration of the Sea (ICES); German Small-scale Bottom Trawl Survey: Thünen Institute of Sea Fisheries</i></p>

## 2.3 Relevant previous or future research projects:

*Cruise i part of a standard series coordinated by ICES since the mid 1960's  
International Bottom Trawl Survey since 1991 Annual national survey GSBTS  
since 1987*

## 2.4 Previous publications relating to the project:

*All data are stored at ICES DATRAS and published in the framework of reports of  
the respective ICES working group: e.g. ICES 2011: Report of the International  
Bottom Trawl Survey Working Group (IBTSWG), ICES CM 2011/SSGESST:06.  
GSBTS: Senckenbergiana maritima (2007) 37: 13-82.*

## 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.

*Entire North Sea between 54° N to 62° N, particularly in those rectangles  
assigned to Germany by ICES, and sampling areas for the GSBTS (see attached map)*

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:	Walther Herwig III
Type/Class:	FRV
Nationality (Flag State):	Germany
Identification Number (IMO/Lloyds No.):	
Owner:	Federal Republic of Germany
Operator:	Bundesanstalt für Landwirtschaft und Ernährung (BLE) Referat 524, Haubachstraße 86, D-22765 Hamburg
Overall length (meters):	63.18
Maximum draught:	6.20 m
Displacement/Gross Tonnage:	2131 BRZ
Propulsion:	Diesel Electric
Cruising & maximum speed:	11.5 / 14.5 knots
Call sign:	DBFR
INMARSAT number and method and capability of communication (including emergency frequencies):	Inmarsat Fleet Broadband + 870 773236187
Name of Master:	Jürgen Vandrei
Number of Crew:	22
Number of Scientists on board:	12

## 4.2 Particulars of Aircraft:

Name:	
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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, 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):
Fishing	Trawling	GOV Otter Board Trawl (see attached drawing)	no
Sediments and benthic infauna	Grab sampling	Van Veen grab	no
Fish distribution	Echo registration	Echosounder	no
Hydrographic investigations	CTD	CTD	no
Water chemistry	Water sampling	Rosette sampler	no

4.6 Indicate nature and quantity of substances to be released into the marine environment:

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

none
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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:
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no
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## 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):
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## 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:
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from 28.07.2014 To 23.08.2014
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6.2 Indicate if multiple entries are expected:
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## 7. Port Calls

7.1 Dates and Names of intended ports of call:
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Period: One day within 10.08.-15.08., port stop in Stavanger (NO) or crew exchange through pilot vessel at Marstein (NO); alternatively: same period, port stop or crew exchange at Aberdeen (UK) or Peterhead (UK)
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7.2 Any special logistical requirements at ports of call:
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None (crew exchange only)
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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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8.2 Proposed dates and ports 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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Generally, all data will be uploaded directly to ICES-DATRAS for further treatment about 8
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weeks after the cruise.

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

1. Cruise summary report through official channels; English summary will be available about 4 weeks after the cruise
2. Full Cruise Report in English within 6 months after the cruise
3. ICES IBTS working group report, ca. May 2015 ([www.ices.dk](http://www.ices.dk))

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 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:

Contact information of the focal point: Thünen Institute of Sea Fisheries  
 Name: Dr. Anne Sell  
 Country: Germany  
 Affiliation: Thünen Institute of Sea Fisheries  
 Address: Palmaille 9, D-22767 Hamburg, Germany  
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[anne.sell@ti.bund.de](mailto:anne.sell@ti.bund.de)

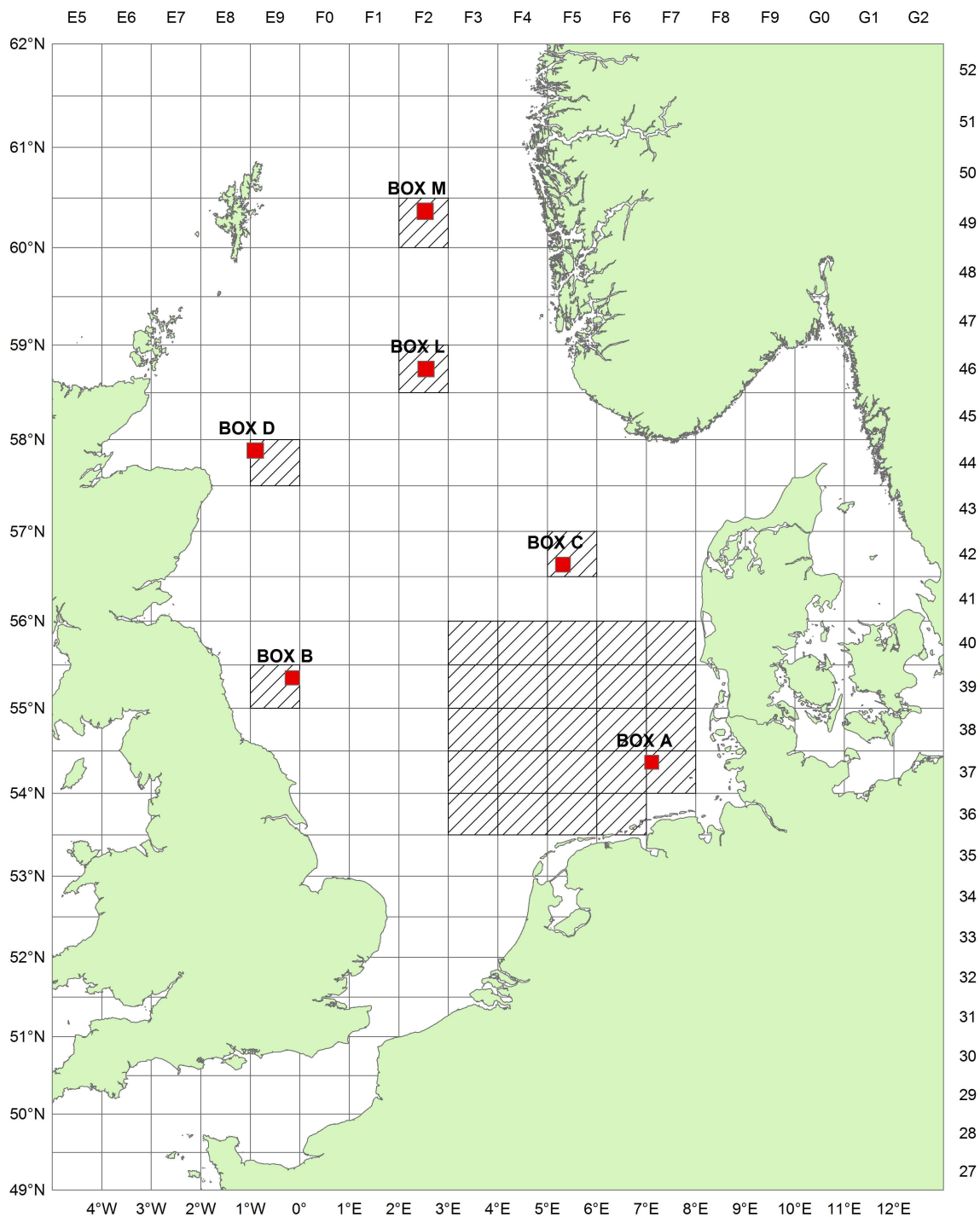


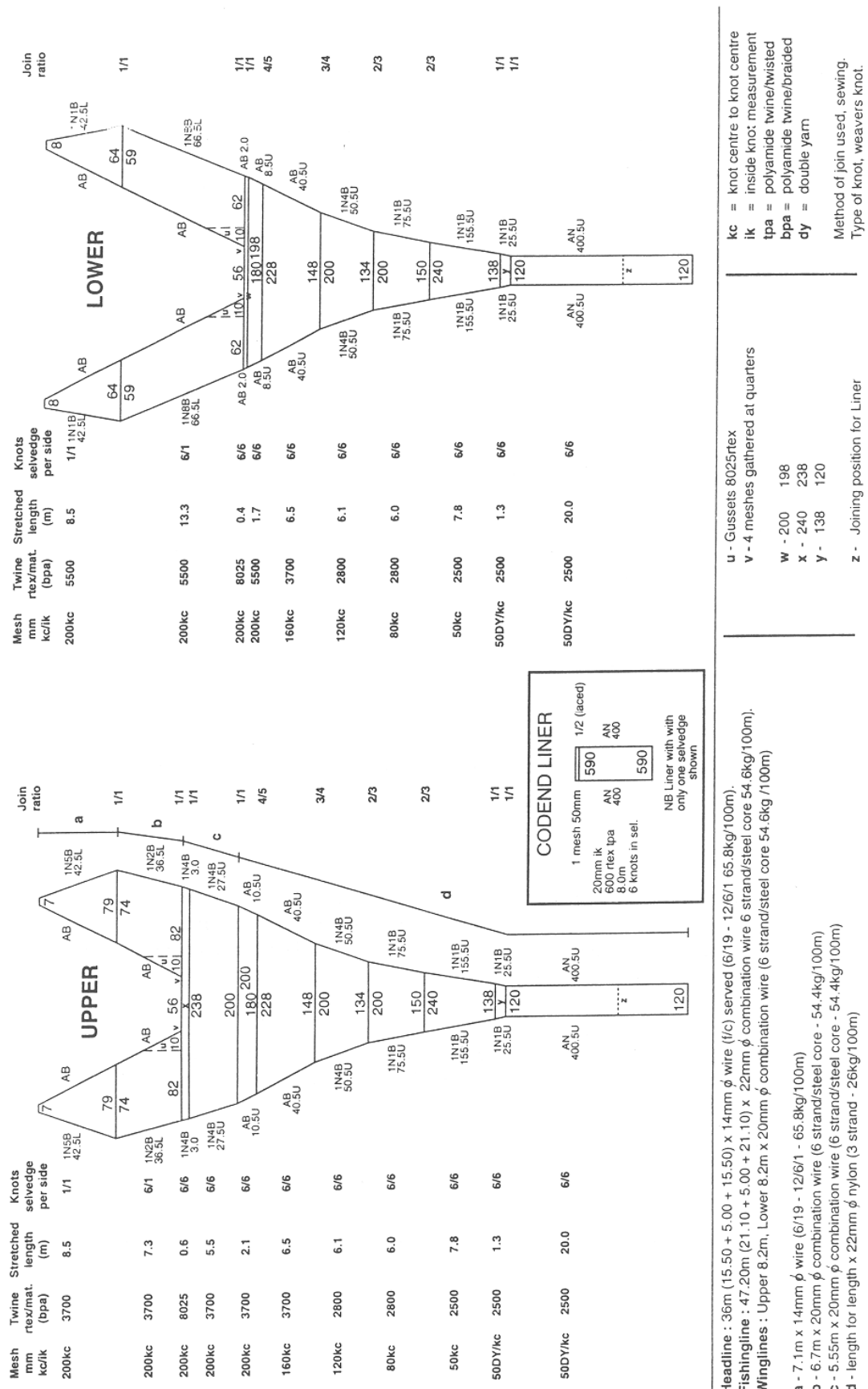
Fig. 1 Sampling areas for cruise WH 376. Red squares: small-scale investigations (GSBTS "Boxes"); hatched area: rectangles for the International Bottom Trawl Survey (IBTS) Q3, to be sampled with one station per rectangle.

Position of the “Boxes” sampled during the GSBTS:

Boundaries	S	N	W	E
BOX B	55° 16' N	55° 26' N	000° 18' W	000° 00' W
BOX C	56° 33' N	56° 43' N	005° 10' E	005° 28' E
BOX D	57° 48' N	57° 58' N	001° 04' W	000° 44' W
BOX L	58° 40' N	58° 50' N	002° 23' E	002° 43' E
BOX M	60° 17' N	60° 27' N	002° 22' E	002° 42' E

# GOV standard fishing gear (trawl construction)

Construction of the 36/47 GOV trawl (adapted from drawings of the Institute des Peches Maritimes, Boulogne/Mer)



**kc** = knot centre to knot centre  
**ik** = inside knot measurement  
**tpa** = polyamide twine/twisted  
**bpa** = polyamide twine/braided  
**dy** = double yarn  
 Method of join used, sewing.  
 Type of knot, weavers knot.

**u** - Gussets 8025tex  
**v** - 4 meshes gathered at quarters  
**w** - 200 198  
**x** - 240 238  
**y** - 138 120  
**z** - Joining position for Liner



GOV standard fishing gear (rigging)

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

