Application for Consent to conduct Marine Scientific Research

Date: _13.03.2014

1. General Information

1.1 Cruise name and/	or number:	
FRV 'Solea'	Cruise No.691	

1.2 Sponsoring Institution(s):	
Name:	Thünen-Institute of Sea Fisheries
Address:	Palmaille 9, 22767 Hamburg, Germany
Name of Director:	Dr. Gerd Kraus

1.3 Scientist in charge of the Project:	
Name:	Dr. Vanessa Stelzenmüller/Dr. Jens Ulleweit
Country:	Germany
Affiliation:	Thünen-institute of Sea Fisheries
Address:	Palmaille 9, 22767 Hamburg
Telephone:	+49 40 38905-
Fax:	+40 40 38905-263
Email:	@ti.bund.de
Website (for CV and photo):	www.ti.bund.de/en/starteseite/institutes/sea-
	fisheries.html

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	John Casey
Affiliation:	CEFAS
Address:	Lowestoft, Suffolk NR33 0HT
Telephone:	+44 1502 524251
Fax:	
Email:	john.casey@cefas.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):

- Investigation and monitoring of the bottom fish fauna in the southern North Sea
- Assessment of hydrographic parameters in the areas of investigation and general operational methods
- Bottom trawling (gear specification attached)
- Application of RAMSES-ACC-VIS Hyperspectral UV-VIS Irradiance Sensor 320 -950 nm
- CTD with water sampler

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:

The survey is carried out regularly as a German standard program since 1989.

2.4 Previous publications relating to the project:

Ehrich, S. et al (2007). 20 years of the German Small-Scale Bottom Trawl Survey (GSBTS): A review. Senckenbergiana maritima. 37(1): 13-82.

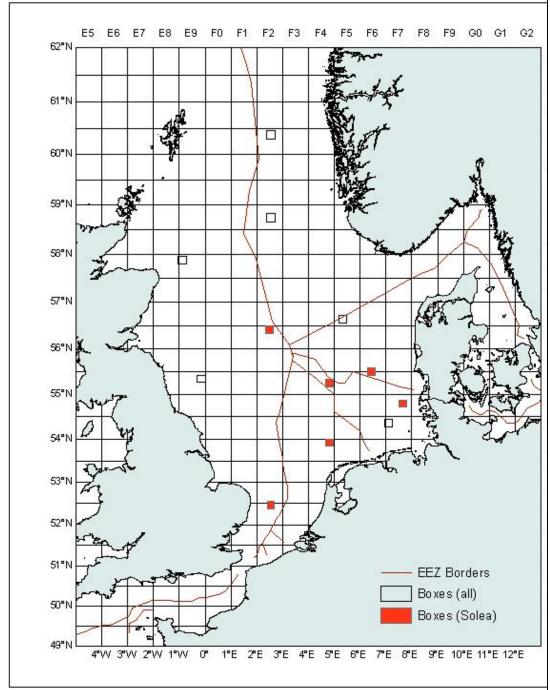
Ehrich, S. et al. (1998). ICES CM J:25, 7 pp.

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.
 - Latitude 52°00' N 57°00' N
 - Longitude 02°00' E 08°00' E

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.

AREAS OF INVESTIGATION (BOXES) Reseach Vessel 'SOLEA'



Mercator Projection (WGS 19

Location of sampling sites (filled squares) fished by FRV 'Solea' during SO691

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 524, Haubachstraße 86, 22765 Hamburg
Overall length (meters):	42,74
Maximum draught:	3,90
Displacement/Gross Tonnage:	638 BRZ
Propulsion:	Diesel Electric
Cruising & maximum speed:	
Call sign:	DBFH
INMARSAT number and method and	Tel.: +870761651777
capability	Fax: +870600273653
of communication (including emergency	
frequencies):	
Name of Master:	Cpt. V. Koops or deputy
Number of Crew:	14
Number of Scientists on board:	7

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 Vel	nicle (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 from			
Details of sensor packages:			
Other relevant informati	on:		
4.4 other craft in the pro	siect including its use:		
4.4 other craft in the pro	ject, including its use.		
4.5 Particulars of metho specify type and dimens		ientific instruments to be	e 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 fauna composition, biomass and length	Trawling	Codhopper	no
Water sampling		CTD	no
4.6 Indicate nature and	quantity of substances t	o be released into the n	narine environment:
4.7 Indicate whether dri	lling will be carried out.	If yes, please specify:	
4.8 Indicate whether exp Chemical content, depth Detonation, and position	n of trade class and stov	vage, size, depth of dete	
5. Installations	and Equipment		
Details of installations a Anticipated timeframe for Measurements):			
6. Dates			
6.1 Expected dates of fi		eparture from the resea	rch area by the
Three days within the pe		6/08/2014	
6.2 Indicate if multiple e	ntries are expected:		
	somponous		
7. Port Calls			
7.1 Dates and Names o			
Two days within the per	iod from 18/07/2014 to (06/08/2014 in Lowestof	t, UK.
7.2 Any special logistica	al requirements at ports	of call:	

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:
0.2 i Toposed dates and porte 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
The expected dates of submission of the data and research results:
30 th of August 2014
9.2 Anticipated dates of submission to the coastal State of the final report:
30 th of September 2014
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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
And research results:
9.6 Proposed means of making results internationally available:
10. Other permits Submitted
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.:
Let a all an interior, out in a additional remits required by the obtained blate, otto.

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

Signature:

/ Solzennell

Contact information of the focal point:

Thünen-Institute Sea Fisheries Germany Name:

Country: Affiliation:

Palmaille 9, D-22767 Hamburg +49 40 38905 177 Address:

Telephone: Fax: +49 40 38905 263 Email: sf@ti.bund.de