PART A. **GENERAL**

1. NAME OF RESEARCH SHIP FFS "Solea"

Cruise No. SO 592

2. DATE OF CRUISE

from 21-07-2008

to 08-08-2008

3. OPERATING AUTHORITY

Bundesanstalt für Landwirtschaft und Ernährung, Referat 522 Palmaille 9, 22767 Hamburg

Tel.-No. +49 40 38905171 / Telex 214763 bled / Fax -No. +494038905128

4. OWNER

Federal Republic of Germany

5. PARTICULARS OF SHIP

NAME

FRV "Solea" (new build)

NATIONALITY

German

OVERALL LENGTH (METRES)

42,70

MAXIMUM DRAUGHT (METRES)

3,40

NETT TONNAGE

rd. 660

PROPULSION

Diesel-Electric

CALL SIGN

DBFH

REGISTERED PORT & NUMBER

None

(if registered fishing vessel)

6. CREW

NAME OF MASTER

Captain J. Vandrei or deputy

NUMBER OF CREW

14

7. SCIENTIFIC PERSONNEL

NAME AND ADDRESS OF

Dr. Anne Sell

SCIENTIST - IN - CHARGE

vTI* -Institut für Seefischerei

Palmaille 9

22767 Hamburg

Tel.-No.

+49 40 38905-246 +49 40 38905-263

Fax -No.

*) New institute name: Johann Heinrich von

Thünen-Institut (vTI)

NUMBER OF SCIENTISTS

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in latitude and longitude):

Latitude 52°00' N - 57°00' N

Longitude 02°00' E – 08°00' E

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE:

German small scale bottom trawl survey ("Box"-Fishery)

10. DATES AND NAMES OF INTENDED PORTS OF CALL:

None

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:

None

PART B. GENERAL

NAME OF RESEARCH SHIP

FFS "Solea"

CRUISE NO: SO 592

2. DATES OF CRUISE

FROM 21-07-2008

TO 08-08-2008

3.a) PURPOSE OF RESEARCH

Bottom Trawl Survey in six areas of investigation ("Boxes", see annex):

- Investigation and monitoring of the bottom fish fauna in the southern North Sea
- Assessment of hydrographic parameters in the areas of investigation
- Sediment analyses at selected stations

3 b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear-trawl type, mesh size)

- Bottom trawling (gear specification attached)
- CTD with water sampler
- Van-Veen bottom grab (0.2 m²)
- 4. <u>ATTACH CHART</u> showing, at the <u>appropriate</u> scale, the geographical area of the intended work, positions of the intended stations, tracks of survey lines, positions of moored equipment, areas to be fished

Map is attached

- 5 a) TYPES OF SAMPLES REQUIRED e.g. Geological / Water / Plankton / Fish / Radionuclide's.
 - Fish
 - Water
 - Sediment
 - b) <u>METHODS OF OBTAINING SAMPLES</u> (e.g. dredging / coring / drilling / fishing etc.). (When using fishing gear indicate fish stocks being worked, quantity of each species required, quantity of fish being retained on board)

The following methods will be obtained.

- 1. Fishing with a bottom trawl (the specification of the codhopper is attached):
- Samples of all species caught will be worked up on board
- The expected size of the catch consists of a few baskets per haul
- No fish is retained on board except scientific samples taken to the lab of the vTI in Hamburg.
- 2. Water sampling with the carousel water sampler
- 3. Sediment sampling with van-Venn grab

6. <u>DETAILS OF MOORED EQUIPMENT:</u>

DATES: <u>LAYING</u> <u>RECOVERY</u> <u>DESCRIPTION</u> <u>DEPTH</u> <u>LATITUDE</u> <u>LONGITUDE</u>

None.

7. ANY HAZARDOUS MATERIALS: (Chemicals, Explosives, Gases, Isotopes, etc.)

None

- (a) TYPE AND TRADE NAME
- (b) CHEMICAL CONTENT (& formula)
- (c) IMO IMDG CODE Reference & UN No.
- (d) QUANTITY & METHOD OF STOWAGE ON BOARD
- (e) IF EXPLOSIVES give date (s) of detonation
 - Method of detonation
 - Position of detonation
 - Frequency of detonation
 - Depth of detonation
 - Size of explosive charge in Kgs
- 8. DETAIL & REFERENCE OF:
 - a) ANY RELEVANT PREVIOUS / FUTURE CRUISES:

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

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATE RELATING TO THE PROPOSED CRUISE. (Attach separate sheet if necessary)

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.

- 9. NAMES AND ADDRESSES OF SCIENTISTS IN COASTAL STATE (S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE.
 - John Casey, CEFAS, Lowestoft (United Kingdom)
 - Dr. Henk Heesen, IMARES, Ijuimden (Netherlands)
 - Jørgen Dalskov, Danish Institute for Fisheries Research, Technical University of Denmark, Charlottenlund (Denmark)
- 10. <u>STATE</u>:
- (a) WHETHER VISITS TO THE SHIP IN PORT BY COASTAL STATE SCIENTISTS WILL BE ACCEPTABLE

YES/NO

- (b) PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND THE PORTS FOR EMBARKATION/DISEMBARCATION YES / NO
 - But no spare accommodation
- c) WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AND BY WHAT MEANS

Report will be available about 4 weeks after the trip

PART-C: SCIENTIFIC EQUIPMENT

COASTAL STATE: United Kingdom

COMPLETE THE FOLLOWING TABLE SEPARATE COPY FOR EACH COASTAL STATE

PORT CALL: None

DATES:

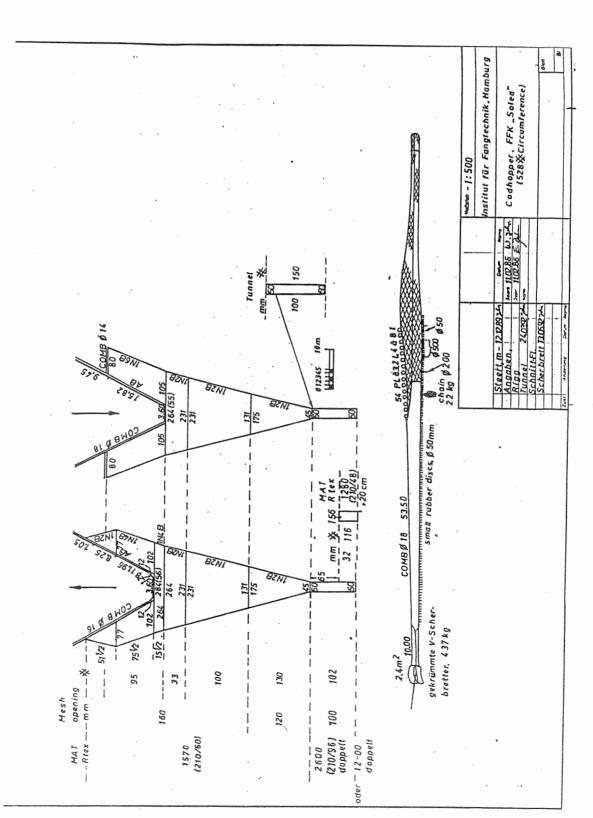
INDICATE "YES" OR "NO"

LIST OF SCIENTIFIC WORK BY FUNCTION				Dist	tance from coast	
e.g. Magnetometry Gravity,Diving Seismics Bathymetry Seabed sampling Trawling Echo sounding Water sampling U/W TV Moored instruments Towed instruments	Water Column including Sediment Sampling of the Seabed	Fisheries Research within Fishing Limits	Research Concerning The natural Resources of the Continental Shelf or its Physical Characteristics	Within 12 nms	Between 12-200 nms	(Continental shelf work only) Beyond 200 nm but within the continental margin
Trawling	NO	YES	YES	NO	YES	NO
Water Sampling/CTD	YES	YES	NO	NO	YES	NO
Sediment grab	YES	YES	NO	NO	YES	NO

Anne Sel	(
(On behalf of the Principal Scientist)	

Dated.....18.1.2008....

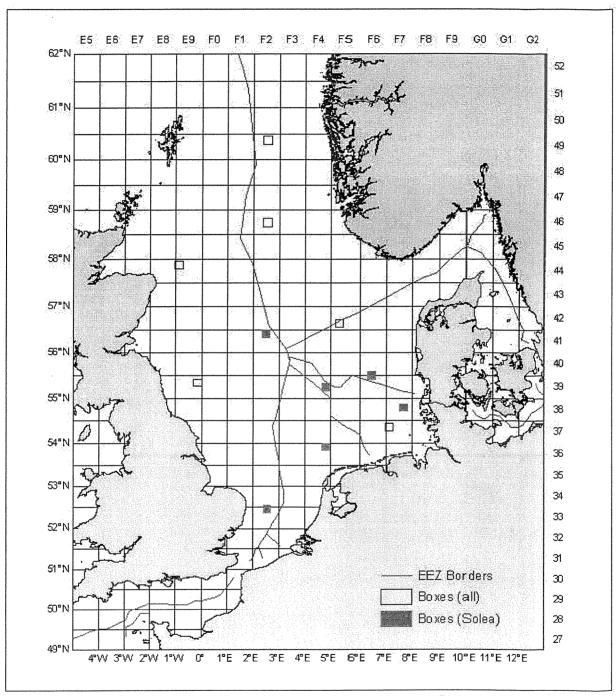
N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES / AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY



Specification of the Codhopper

AREAS OF INVESTIGATION (BOXES)

Reseach Vessel 'SOLEA'



Mercator Projection (WGS 1984)

Location of sampling sites (filled squares) fished by FRV 'Solea' during SO 592.

PART A. GENERAL

1. NAME OF RESEARCH SHIP FFS "Solea"

Cruise No. SO 592

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from 21-07-2008

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NAME OF MASTER

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None

11.ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:

None

PART B. GENERAL

1. NAME OF RESEARCH SHIP

FFS "Solea"

CRUISE NO: SO 592

2. DATES OF CRUISE

FROM 21-07-2008

TO 08-08-2008

3.a) PURPOSE OF RESEARCH

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7. ANY HAZARDOUS MATERIALS: (Chemicals, Explosives, Gases, Isotopes, etc.)

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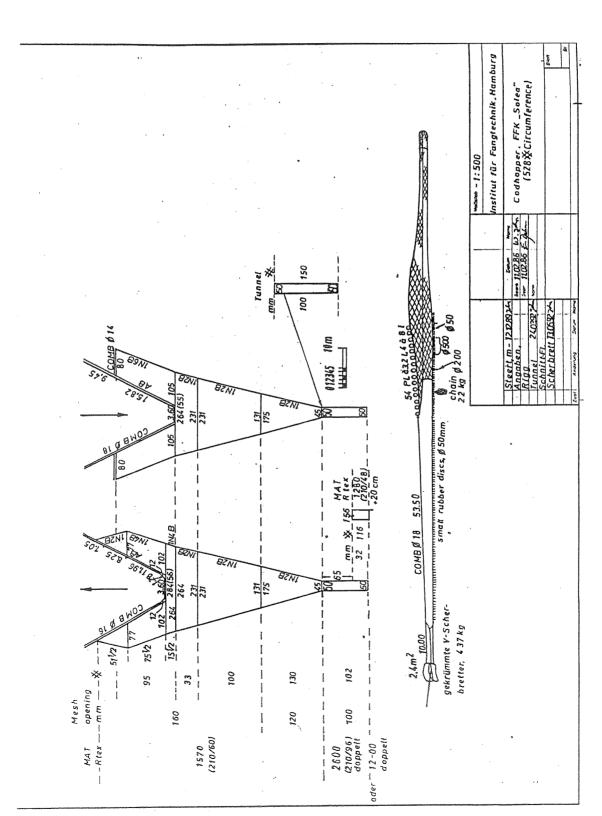
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	.	, ma	T T T T T T T T T T T T T T T T T T T	NO	MDG	NO
Trawling	NO	YES	YES	NO	YES	NO
Water Sampling/CTD	YES	YES	NO	NO	YES	NO
Sediment grab	YES	YES	NO	NO	YES	NO

Anne Sel	(
or behalf of the Principal Scientist	

Dated.....18.1.2008.....

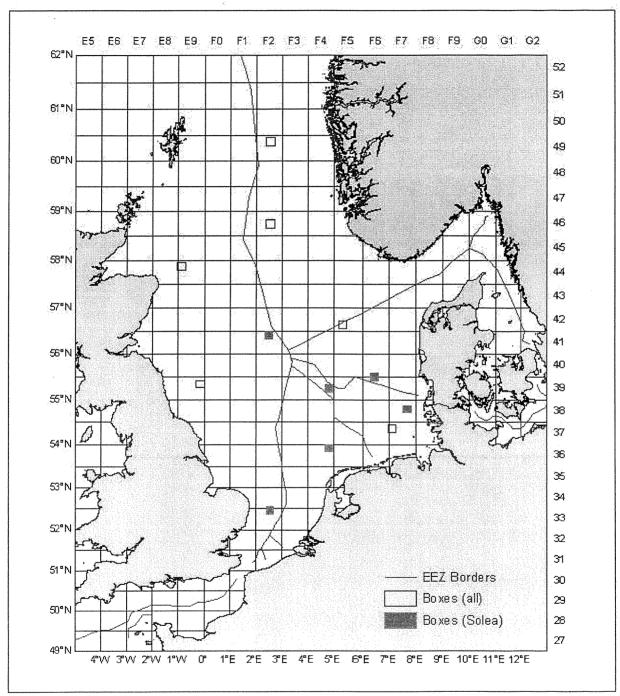
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Specification of the Codhopper

AREAS OF INVESTIGATION (BOXES)

Reseach Vessel 'SOLEA'



Mercator Projection (WGS 1984)

Location of sampling sites (filled squares) fished by FRV 'Solea' during SO 592.