NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL Part A

1. Name of research ship r/v Senckenberg Cruise No. 12

2. Dates of cruise from 17.5.16 to 27.5.16

3. Operating authority Senckenberg Gesellschaft für Naturforschung

Senckenberganlage 25 60325 Frankfurt a.M.

4. Owner (if different from para. 3)

5. Particulars of ship: Name r/v Senckenberg

Nationality German
Overall length 29.5 m
Maximum draught 3 m
Gross tonnage 55 BRZ
Propulsion Diesel
Call sign DDAW

INMARSAT-Phone 00881641440458

INMARSAT-Email senckenberg@skyfile.com

6. Crew Name of master Karl Baumann

No. of crew

7. Scientific personnel: Name and address

of scientist in charge

PD Dr. Ingrid Kröncke Senckenberg am Meer Dept for Marine Research 26382 Wilhelmshaven

Telephone +49-4421-9475250

Telex Telefax

+49-4421-9475299

No. of scientists 4

8. Geographical area in which ship will operate (with reference to latitude and longitude)

station list and chart attached as appendix

9. Brief description of purpose of cruise

Long-term changes in the biodiversity of benthic communities at Dogger Bank

10. Dates and names of intended ports of call

No ports

11. Any special logistic requirements at ports of call

No

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1. Name of research ship r/v Senckenberg Cruise No. 12

2. Dates of cruise from 17.5.16 to 27.5.16

3. Purpose of research

Long-term study of benthic communities at Dogger Bank

and general operational methods

0.2 m² van veen grabs

4. Attach chart showing (on an appropriate scale) the geographical area of intended work, positions of intended stations, tracks of survey lines, positions of moored / seabed equipment

station list and chart attached as appendix

5. Types of samples required, e. g. geological/water/plankton/fish/radioactivity/ isotope/...

benthos/sediment samples

and methods by which samples will be obtained (including dredging / coring / drilling /...)

0.2 m² van Veen grabs

6. Details of moored equipment:

Dates

Laying Recovery Description Depth Latitude Longitude

7. Explosives: No explosives

- (a) Type and trade name
- (b) Chemical content
- (c) Trade class and storage
- (d) Size
- (e) Depth of detonation
- (f) Frequency of detonation
- (g) Position in latitude and longitude
- (h) Dates of detonation

8. Details and references of

(a) Any relevant previous / future cruises

Similar cruises in 2015, 2006-07, 1996-98, 1985-88

(b) Any previous published research data relating to the proposed cruise.

(Attach separate sheet if necessary)

Kröncke, I. (1992). Macrofauna standing stock of the Dogger Bank. A comparison: III. 1950-54 versus 1985-87. A final summary. Helgoländer Meeresunters. 46: 137-169.

Kröncke, I., Knust, R. (1995). The Dogger Bank: a special ecological region in the central southern North Sea. Helgoländer Meeresunters. 49: 335-353.

Wieking, G., Kröncke, I. (2001). Decadal changes in macrofauna communities on the Dogger Bank caused by large-scale climate variability. Senckenbergiana marit. 31(2): 125-141.

Wieking, G., Kröncke, I. (2003). Benthic communities of the Dogger Bank (central North Sea) in the late 90s: Spatial distribution, species composition and trophic structure. Helgol. Mar. Res. 57: 34-46.

Kröncke, I. (2011). Changes in Dogger Bank macrofauna communities in the 20th century caused by fishing and climate. Estuar. Coast. Shelf Sci. 94 (3): 234-245.

Sell, A.F., Kröncke, I. (2013). Correlations between benthic habitats and demersal fish assemblages - A case study on the Dogger Bank (North Sea). J. Sea Res. 80: 12–24.

9. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place, with whom previous contact has been made

Dr Silvana Birchenough, Senior Benthic Ecologist, Cefas Marine Climate Change Centre (MC3) Cefas Lowestoft Laboratory, Pakefield Road, Lowestoft NR33 OHT, Tel: 01502527786 (direct)

10. State: UK

(a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable (Yes/No)

Yes

(b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation / disembarkation (Yes/No)

Yes

(c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means

after publication in scientific journals

SCIENTIFIC EQUIPMENT COASTAL STATE:

11. Complete the following table - SEPARATE COPY FOR EACH COASTAL STATE (INDICATE 'YES' OR 'NO')

List of all major Marine Scientific Equipment it is proposed to use and	Fisheries Research within Fishing	Research concerning Continental Shelf out	DISTANCE FROM COAST Within Between Between Between			
indicate waters in which it will be deployed	Limits	to Coastal State's Margin	3 NM	3-12 NM	12-50 NM	50-200 NM
0.2 m ² van Veen grab	No	No	No	No	No	Yes

On behalf of the Principal Scientist: PD Dr. Ingrid Kröncke

Dated: 28.1.2016

J. Kondu

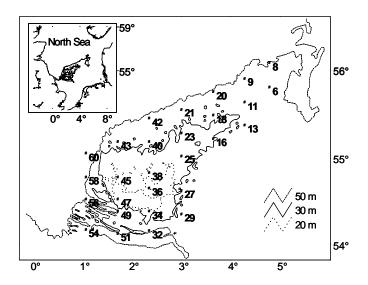


Fig. 1: Sampling stations at Dogger Bank with RV "Senckenberg" in May/June 2015

Tab. 1: Coordinates of sampling stations

station	N	E	depth (m)	
6	55° 48'	04° 51'	34	
8	56° 04'	04° 51'	43	
9	55° 54'	04° 20'	43	
11	55° 38'	04° 20'	32	
13	55° 22'	04° 20'	42	
16	55° 13'	03° 40'	32	
18	55° 29'	03° 40'	31	
20	55° 45'	03° 40'	47	
21	55° 33'	03° 00'	40	
23	55° 17'	03° 00'	29	
25	55° 01'	03° 00'	23	
27	54° 37'	03° 00'	33	
29	54° 21'	03° 00'	39	
32	54° 09'	02° 20'	51	
34	54° 23'	02° 20'	27	
36	54° 39'	02° 20'	18	
38	54° 50'	02° 20'	27	
40	55° 11'	02° 20'	32	
42	55° 27'	02° 20'	44	
43	55° 11'	01° 40'	36	
45	54° 47'	01° 40'	23	
47	54° 31'	01° 40'	18	
49	54° 23'	01° 40'	48	
51	54° 07'	01° 40'	68	
54	54° 10'	01° 00'	45	
56	54° 31'	01° 00'	55	
58	54° 47'	01° 00'	50	
60	55° 03'	01° 00'	61	