

NOTIFICATION OF PROPOSED RESEARCH CRUISE**PART A: GENERAL**

1. NAME OF RESEARCH SHIP CRUISE NO.
RV HEINCKE **HE 252**
2. DATES OF CRUISE From To
01 June 2006 **26 June 2006**
3. OPERATING AUTHORITY:
Alfred-Wegener-Institute for Polar and Marine Research
P.O. Box 12 01 61
D-27515 Bremerhaven
TELEPHONE: **+49 471 4831-0**
TELEFAX: **+49 471 4831-1355**
TELEX: **238 695 polar d**
4. OWNER (if different from no. 3)
5. PARTICULARS OF SHIP:
Name: **HEINCKE**
Nationality: **German**
Overall length: (in metres) **55,20**
Maximum draught: (in metres) **4,16**
Net tonnage: **396**
Propulsion e.g. diesel/steam: **diesel electric**
Call sign: **DBCK**
Registration port and number (if registered fishing vessel) **Helgoland**
6. CREW
Name of master: **Günther Höppner**
Number of crew: **12**
7. SCIENTIFIC PERSONNEL
Name and address of scientist in charge: **Scientist in charge:**
Dr. Christian Schuett
Alfred Wegener Institute
for Polar and Marine Research
D-27498 – Helgoland
cschuett@awi-bremerhaven.de
Tel/telex/fax no.: **+49 4725 819-225 / 238 695 polar d / +49 4725 819-283**
No. of scientists: **10**
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
North Sea/Atlantic Box: 55°30N, 61°20N; 02°00E, 04°00W
See attached map
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
Chemical ecology and symbiosis research. Interactions between Microorganisms and marine invertebrates. Chemical analysis of cnidarian venoms (jellyfish, sea anemones)
10. DATES AND NAMES OF INTENDED PORTS OF CALL
16 June 2006 (morning) – 17 June 2006; Lerwick, Shetlands
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
No special requirements

NOTIFICATION OF PROPOSED RESEARCH CRUISE

1. PART B: DETAILS

1. NAME OF RESEARCH SHIP CRUISE NO.
 RV HEINCKE **HE 252**
2. DATES OF CRUISE From To
01 June 2006 **26 June 2006**
3. a) PURPOSE OF RESEARCH
Chemical ecology and symbiosis research. A major objective is to understand how marine invertebrates are chemically defended against predators or fouling organisms. Topic focuses on the elucidation of chemical structures of cnidarian venoms, its cellular effects and producers. Biological material comprises *Cnidaria* species from the regions of the Orkney, Hebrides, Shetland and the waters close to Helgoland.
- b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)
Marine invertebrates will be collected by diving and dredging. Additional plankton (water) samples taken by plankton nets (up to 300 µm). Bottom trawl fishing for the institute's aquarium Helgoland.
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, areas to be fished
Working area marked in attached map (see Attachment), Region North Sea/Atlantic Box: 55°30N, 61°20N; 02°00E, 04°00W
Specific stations will be selected according previous cruises and weather conditions.
5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide)
 1) **Benthic invertebrates**
 2) **Plankton**
 3) **Bottom trawl, fishing for the the institute's aquarium at Helgoland**
- b) METHODS OF OBTAINING SAMPLES (e.g., dredging/coring/drilling/fishing, etc. When using fishing gear, indicate fish stocks being worked, quantity of each species required, and quantity of fish to be retained on board).
1. Scuba diving; 2. Dredging; 3. Plankton-Net or pump (up to 300 µm); 3. Bottom trawl

6. DETAILS OF MOORED EQUIPMENT

No moored equipment

Dates

Laying

Recovery

Description

Depth

Latitude

Longitude

7. **Explosives**

- a) Type and trade name
- b) Chemical content (and formula)
- c) IMO IMDG code (reference and UN no.)
- d) Quantity and method of storage on board
- e) If explosives give dates of detonation **no explosives**
- Method of detonation
 - Position of detonation
 - Frequency of detonation
 - Depth of detonation
 - Size of explosive charge in kg.

8. DETAIL AND REFERENCE OF
a) Any relevant previous/future cruises
Cruises # HE 82 (August 1996), HE 89 (May/June 1997), HE 105 (May/June 1998), HE 120 (May/June 1999), HE 132 (May/June 2000), HE 134 (July 2000), HE 151 (July 2001), HE 189 (May/June 2003), HE 209 (May/June 2004), HE 230 (June 2005)
- b) Any previously published research data relating to the proposed cruise
Groeper, W. & C. Schuett 2003: Bacterial community in the tunic matrix of a colonial ascidian *Diplosoma migrans*. Helg Mar Res 57:139-143;
Schuett et al. 2005: Diversity of intra-tunic bacteria in the tunic matrix of the colonial ascidian *Diplosoma migrans*. Helgol Mar Res 59: 136-140
9. NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE
10. STATE
a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable (Yes/No)
Yes
b) Participation of an observer from the coastal state for any part of the cruise together with the dates and the ports for embarkation and disembarkation
Yes
c) When research data from the intended cruise are likely to be made available to the coastal state and by what means
Cruise Summary Report, scientific literature

PART C. SCIENTIFIC EQUIPMENT

Complete the following table using a separate page for each coastal state

Coastal state

United Kingdom, Scotland

Port of call

Lerwick, Shetlands

Dates

16 to 17 June 2006

Indicate "YES" or "NO"

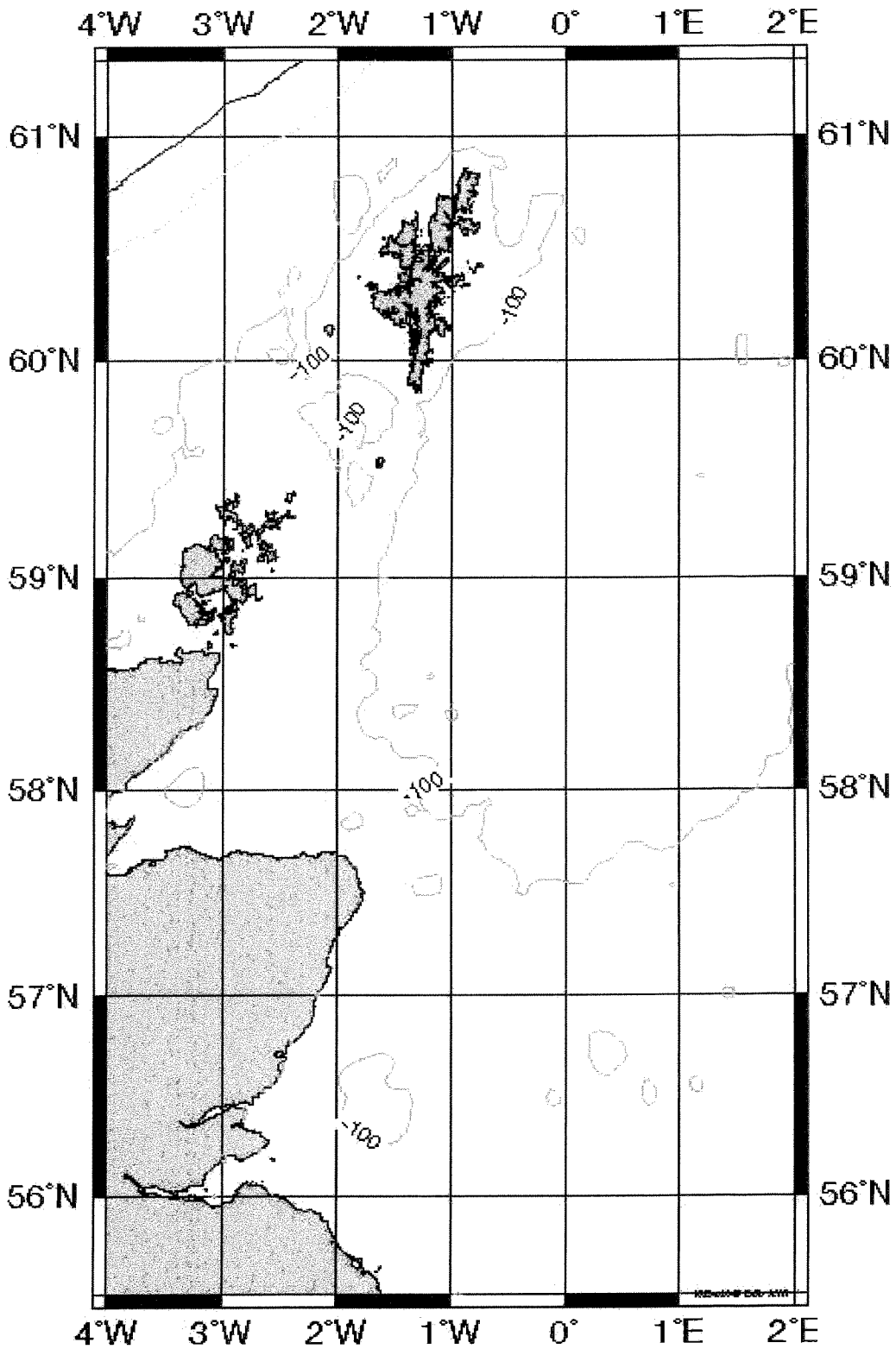
List scientific work by function e.g.	Water column including sediment sampling of the seabed	Fisheries research within fishing limits	Research concerning the natural resources of the continental shelf or its physical characteristics	DISTANCE FROM COAST		
				Within 3 nm	Between 3-12 nm	Between 12-200 nm
Plankton net (& water samples)	Yes	No	No	Yes	Yes	Yes
Dredge	Yes	No	No	Yes	Yes	Yes
Diving	Yes	No	No	Yes	No	No
Echosounding (< 50 kHz)	No	No	No	No	No	No
TV-camera	Yes (divers only)	No	No	Yes	Yes	No
Multicorer	No	No	No	No	No	No
CTD/Rosette	Yes	No	No	Yes	Yes	Yes
Gravity corer	Yes	No	No	Yes	Yes	Yes
Bottom trawl fishing for our institute's aquarium	Yes	No	No	Yes	Yes	Yes

Alfred-Wegener-Institut
für Polar- und Meeresforschung
Bereich Logistik
Postfach 12 01 61
D-27515 Bremerhaven

i. A. Jure Niedof
(On behalf of the Principal Scientist)

Dated 21. Dezember 2005

box_north_sea2005.jpg (466x804x16M jpeg)



Projection: Mercator, Standard Parallel 59°N

100 m (green), 500 m (cyan)

1000-5000 m (blue, in steps of 1000 m)

Software: GMT, data: ETOPO 2