NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. *NAME OF RESEARCH SHIP* R V Heincke *CRUISE NO.* HE230

2. *DATES OF CRUISE* From: 02 June 2005 To: 26 June 2005

3. *OPERATING AUTHORITY*

Alfred – Wegener – Institute for Polar and Marine Research
P.O. Box 120161
D-27515 Bremerhaven

Telephone: +49 471 4831-0
Facsimile: +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:	55.20
MAXIMUM DRAUGHT:	4.16
GRT:	396
PROPULSION:	Diesel electric
CALL SIGN:	DBCK
TELEPHONE:	
FAX:	

REGISTERED PORT & NUMBER: Helgoland
(if registered fishing vessel)

6. *CREW*

NAME OF MASTER:	Friedhelm von Staa
NO. OF CREW:	12

7. *SCIENTIFIC PERSONNEL*

NAME AND ADDRESS OF SCIENTIST IN CHARGE:	Dr. Christian Schuett Alfred Wegner Institute For Polar and Marine Research D-27498-Helgoland
TEL./TELEX/FAX NO:	+49 4725 819-225/238 695 polar d/ +49 4725 819-283
NUMBER OF SCIENTISTS:	10

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

North Sea/Atlantic Box A: 5630N, 61°20 N; 02°00E, 04°00W

Box B: 56°30N, 59°30N; 04°00W, 08°00W

9. *BRIEF DESCRIPTION OF PURPOSE OF CRUISE*

Chemical ecology and symblosis research. Interactions between micro organisms and marine invertebrates. Chemical analysis of enidarian venoms (jellyfish, neaanomonae)

10. *DATES AND NAMES OF INTENDED PORTS OF CALL*

16 June 2005 (morning) – 17 June 2005; Stornoway, Hebrides.

11. *ANY SPECIAL REQUIREMENTS AT PORTS OF CALL*

No

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

1. *NAME OF RESEARCH SHIP* RV Heincke *CRUISE NO.* HE 230

2. *DATES OF CRUISE* From: 02 June 2005 To: 26 June 2005

3. *a) PURPOSE OF RESEARCH*

   Chemical ecology and symbiosis research. A major objective is to understand how marine invertebrates are chemically defended against predators ot 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 Orkney regions (HE 209 cruise, FS "Heincke"), the Hebridies and the waters of Helgoland.

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

   We will primarily collect marine invertebrates by diving and dredging. Additional plankton (water) samples taken by plankton-nets (up to 300 um). Bottom trawl fishing for the institutes aquarium Helgoland.

4. *ATTACH CHART*
   (showing (on an appropriate scale) the geographical area of the intended work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished)

   working area depicted in attached map (see attatchment), Region North Sea/Atlantic Box A:

   5630N, 61°20 N; 02°00E, 04°00W Box B: 56°30N, 59°30N; 04°00W, 08°00W

5. *a) TYPES OF SAMPLES REQUIRED*
   (e.g. Geological/Water/Plankton/Fish/Radionuclide)

   1. Benthic invertebrates and macro algae

   2. Plankton

   3. Bottom trawl, fishing for 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, quantify of fish to be retained on board)

   1. Scuba diving; 2. Dredging; 3. Plankton-Net or pump (up to 330 um); 4. Bottom trawl

6. *DETAILS OF MOORED EQUIPMENT* No moored equipment

   DATES:

Laying	Recovery	Description	Depth	Latitude	Longitude

7. *ANY HAZARDOUS MATERIALS* No explosives
   (Chemicals, Explosives, Gases, Radioactive etc)
   (use separate sheet, if necessary)

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

Cruise No. HE82 (Aug 1996), Cruise No. HE 89 (May/June 1997), Cruise No. HE105 (May/June 1998), Cruise No. HE 120 (May/June 1999), Cruise No. HE132 (May/June200), Cruise No. HE134 (July 2000), Cruise No. HE151 (July 2001), HE189 (May/June 2003), HE 209 (May/June 2004).

b) ANY PREVIOUSLY PUBLISHED DATA RELATING TO THE PROPOSED CRUISE

Groepler, W. and C. Schett 2003: Bacterial community in the tunic matrix of a colonial ascidian *Diplosoma migrans*. Helg Mar Res 57:139-143; Schuett eat al. 2005: Diversity of intratunical bacteria in the tunic matrix of the colonial ascidian *Diplosoma migrans*. In press.

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

b) PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND PORTS FOR EMBARKATION/DISEMBARKATION

Yes

c) WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AND BY WHAT MEANS

Cruise summary report, scientific literature.

PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE: UK, Scotland
PORT CALL: Stornoway
DATES: 16/17 June 2005

11. *COMPLETE THE FOLLOWING TABLE - SEPARATE PAGE FOR <u>EACH</u> COASTAL STATE (indicate "Yes" or "No")*

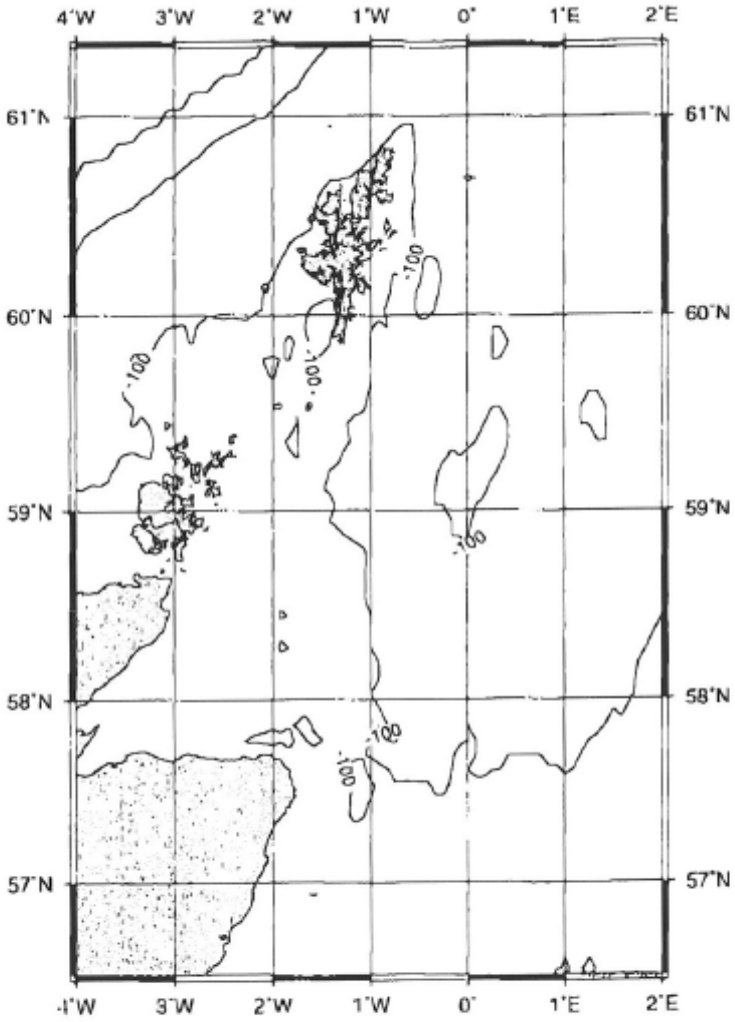
				DISTANCE FROM COAST		
LIST SCIENTIFIC WORK BY FUNCTION e.g. MAGNETOMETRY GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W TV MOORED INSTRUMENTS TOWED INSTRUMENTS	*WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED*	*FISHERIES RESEARCH WITHIN FISHING LIMITS*	*RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTER-ISTICS*	*WITHIN 4 NM*	*BETWEEN 4 AND 12 NM*	*BETWEEN 12 AND 200 NM*
Plankton net (and water samples)	Yes	No	No	Yes	Yes	Yes
Dredge	Yes	No	No	Yes	Yes	Yes
Diving	Yes	No	No	Yes	No	No
Echo sounding	No	No	No	No	No	No
(<50kHz)	Yes	No	No	Yes	Yes	No
TV-Camera	No	No	No	No	No	No
Multicorer	Yes	No	No	Yes	Yes	Yes
CTD/Rosette	Yes	No	No	Yes	Yes	Yes
Gravity corer	Yes	No	No	Yes	Yes	Yes
Bottom trawl fishing for our institutes aquarium.						

(On behalf of the Principal Scientist)

Dated: 01.02.2005

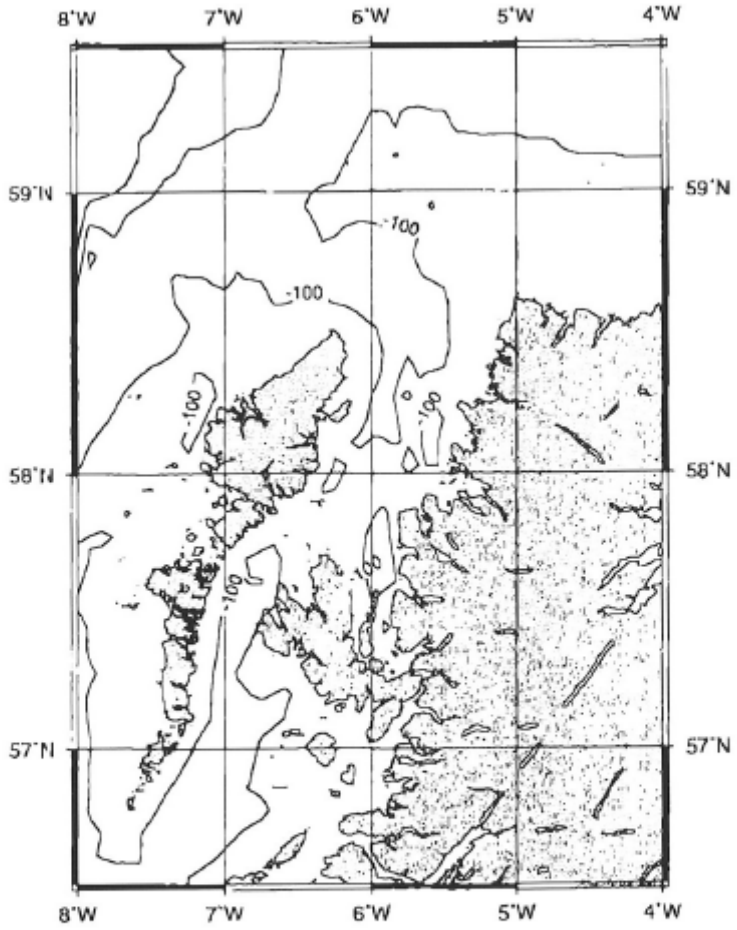
N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE

AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.



Projection: Mercator, Standard Parallel 59°N
100 m (green), 500 m (cyan)
1000-5000 m (blue, in steps of 1000 m)
Software: GMT, data: ETOPO5

Box A



Projection: Mercator, Standard Parallel 59°N
100 m (green), 500 m (cyan)
1000-5000 m (blue, in steps of 1000 m)
Software: GMT, data: ETOPO5

Box B