NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: **RV HEINCKE** — CRUISE NO.: **HE 239**

2. DATES OF CRUISE: From **14 September 2005** To **27 September 2005**

3. OPERATING AUTHORITY:
Alfred-Wegener-Institute for Polar and Marine Resaerch
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: **Henning Papenhagen**
Number of crew: **12**

7. SCIENTIFIC PERSONNEL
Name and address of scientist in charge: **Scientist in charge:**
Dr. Norbert Rohlf
Leibniz-Institut of Marine Sciences at the University of Kiel, Düsternbrooker Weg 20
D-24105 – Kiel
nrohlf@ifm-geomar.de
Tel/telex/fax no.: **+49 431 600-1821 / +49 431 600-1800**
No. of scientists: **8**

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
North Sea between 53°30'N and 61° N and from 004°00'W to 003°00'E

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
Plankton sampling for the International Herring Larvae Survey (an International ICES programme), horizontal and vertical distribution of fish egg and larvae.

10. DATES AND NAMES OF INTENDED PORTS OF CALL
No port of call

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
No special requirements

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1. PART B: DETAILS

1. NAME OF RESEARCH SHIP: **RV HEINCKE** — CRUISE NO.: **HE 239**

2. DATES OF CRUISE — From: **14 September 2005** — To: **27 September 2005**

3. a) PURPOSE OF RESEARCH
The cruise is part of the ICES International Herring Larvae Surveys in 2005. Used gear is a plankton sampler ("Nackthai"). The samples are taken on a standard grid (Stations are 10 nm apart). Additional sampling is intended to get information on the vertical and horizontal stratification of zoo- and ichthyoplankton. For this purpose an optical sampling device is used (Ichthyoplanktonrecorder, IPR). Some larvae should be collected for biochemical analyses by Bongo-Net.
b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)
Plankton samples by "Nackthai" aperture 20 cm, mesh size 300 micron and by IPR opening 19,5 cm and mesh size 300 micron. Bongo aperture 60 cm, mesh size 500 micron.

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 is given in the attached map (see Attachment).
Transects of the IPR depend on and will be selected according to the herring larvae distribution.

5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide)
Plankton
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).
Double oblique tows with plankton-samplers from surface to near bottom. Undulating tows on larger transects with the Ichthyoplanktonrecorder. A CTD is attached on these samplers to get information on hydrographic data.

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

The cruise is part of the International Herring Larvae Surveys which have been carried out annually since 1972.

b) Any previously published research data relating to the proposed cruise

All data are published yearly by the ICES in "Report of the Herring Assessment Working Group" or in the "Report of the herring larvae survey in the North Sea" (prior to 2003).

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

Dr. John Simmonds, Marine Lab. Aberdeen
Dr. Paul Fernandes, Marine Lab. Aberdeen

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, but there is no plan to call a port. If observers want to participate in the cruise or parts of it, prior contact to the Alfred Wegener Institute or the cruise leader would be helpful to ensure that ports will be included in the cruise for embarkation/disembarkation.

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

The data are available to all states which are members of ICES.

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state **United Kingdom**

Port of call **no port of call**

Dates

Indicate "YES" or "NO"

				DISTANCE FROM COAST		
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 conti-nental shelf or its physical characteris-tics	Within 3 nm	Between 3-12 nm	Between 12-200 nm
Nackthai, towed Planktonsampler	No	Yes	No	Yes	Yes	Yes
Bongo, towed Planktonsampler	No	Yes	No	Yes	Yes	Yes
Ichthyoplankton-recorder, towed optical plankton sampler	No	Yes	No	Yes	Yes	Yes
CTD, attached on plankton samplers	No	Yes	No	Yes	Yes	Yes

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Bereich Logistik
Postfach 120161
D-27515 Bremerhaven

i. A. Uwe Neidhardt

(On behalf of the Principal Scientist)

Dated 04.05.2005

HEINCKE 239
(09/14 – 09/27/05)
proposed station grid in the
Orkney/Shetland area and the Central North Sea