

**APPLICATION FOR CONSENT TO CONDUCT MARINE
SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL
JURISDICTION OF THE UNITED KINGDOM**

Date: 1.12.2005

1. General Information

- 1.1 Ship and cruise number:** Magnus Heinason Cruise 0608
- 1.2 Sponsoring institution:**
Name: Fiskirannsóknarstovan
Address: PO Box 3051, Nóatún, FO-110 Tórshavn
Faroe Islands
Name of director: Stein Hjalti í Jákupsstovu
- 1.3 Scientist in charge of project:**
Name: Dr. Bogi Hansen
Address: Fiskirannsóknarstovan
PO Box 3051, Nóatún
FO-110 Tórshavn
Faroe Islands
Telephone: +298 353900
Telefax: +298 353901
- 1.4 Scientist from UK with knowledge of the project:**
Name: Dr. W. Turrell
Address: SOAFD Marine Laboratory
PO Box 101, Victoria Road
Aberdeen AB9 8DB
- 1.5 Submitting officer:**
Name: Dr. Bogi Hansen
Address: Fiskirannsóknarstovan
PO Box 3051, Nóatún
FO-110 Tórshavn
Faroe Islands
Telephone: +298 353900
Telefax: +298 353901

2. Description of Project

2.1 Nature and objectives of the project:

Monitor long-term changes of hydrography and plankton in the waters surrounding the Faroe Islands. CTD sections in the Faroe-Shetland Channel are in collaboration with the Marine Laboratory in Aberdeen.

2.2 Relevant previous or future research cruises:

2005	16.02-23.02	Magnus Heinason
2005	18.05-25.05	Magnus Heinason
2005	08.06-15.07	Magnus Heinason
2005	31.08-07.09	Magnus Heinason
2005	09.11-16.11	Magnus Heinason

2.3 Previously published research data relating to the project:

Turrell, W.R., Hansen, B. et al. 1999. Direct observations of inflow to the Nordic Seas through the Faroe Shetland Channel 1994-1997. ICES CM 1999/L:01, 15 pp.

Turrell, W. R., Hansen, B., Hughes, S., and Østerhus, S. 2003. Hydrographic variability during the decade of the 1990s in the Northeast Atlantic and Southern Norwegian Sea. ICES mar. Sci. Symp., 219: 111-120.

Østerhus, S., Turrell, W. R., Jónsson, S., and Hansen, B. 2005. Measured volume, heat, and salt fluxes from the Atlantic to the Arctic Mediterranean. Geophysical Research Letters, 32, L07603, doi:10.1029/2004GL022188.

3. Methods and Means to be Used

3.1 Particulars of vessel:

Name: FRV Magnus Heinason **Nationality:** Faroese
Owner: Føroya Landsstýri (The Local Faroese Government)
Operator: Fiskirannsóknarstovan
Overall length: 44.5 m **Maximum draught:** 4.8 m
Net tonnage: 184.9 **Gross tonnage:** 455
Propulsion: Diesel
Cruising speed: 10 kn **Maximum speed:** 11 kn
Call sign: OW 2252
Registered port and number: TN 407
Method and capability of communication: Radio-telephone
Name of master: Dánial J. Lydersen
Number of crew: 10
Number of scientists on board: 2

3.2 **Aircraft or other craft to be used in the project:** N/A

3.3 Particulars of methods and scientific instruments:

Types of samples and data	Methods to be used	Instruments to be used
Water	CTD + bottle sample	CTD + Rosette
Plankton	Vertical hauls	Plankton net

3.4 **Indicate whether harmful substances will be used:** NO

3.5 **Indicate whether drilling will be carried out:** NO

3.6 **Indicate whether explosives will be used:** NO

4. Installations and Equipment

Details of installations and equipment (dates of laying, servicing, recovery; exact locations and depth):

None

5. Geographical Areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude):

Water and plankton will be sampled along the four standard sections shown in the attached chart within the area $60^{\circ}10'N-64^{\circ}30'N$
 $09^{\circ}20'W-03^{\circ}42'W$

5.2 Attach chart(s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intended stations, the tracks of survey lines, and the locations of installations and equipment.

Attached

6. Dates

6.1 Expected dates of first entry into and final departure from the research area of the research vessel:

The ship is expected to be in UK waters for about one day in the period:

Entry: 15.02.2006

Exit: 22.02.2006

6.2 Indicate if multiple entry is expected:

No

7. Port Calls

7.1 Dates and names of intended ports of call in the United Kingdom:

No intended port call

7.2 Any special logistical requirements at ports of call:

N/A

7.3 Name/address/telephone of shipping agent (if available):

N/A

8. Participation

8.1 Extent to which UK will be enabled to participate or to be represented in the research project:

The Marine Laboratory in Aberdeen (Dr. W. Turrell) is participating in the project. Additional observers are welcome aboard.

8.2 Proposed dates and ports for embarkation/disembarkation:

Tórshavn, Faroe Islands at beginning and end of cruise.

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to UK of preliminary reports which should include the expected dates of submission of the final results:

Six months from conclusion of cruise.

9.2 Proposed means for access by UK to data and samples:

By cruise report

9.3 Proposed means to provide UK with assessment of data, samples and research results or provide assistance in their assessment or interpretation:

All data submitted to ICES and direct delivery to The Marine Lab, Aberdeen, c/o Dr. W. Turrell

9.4 Proposed means of making research results internationally available:

In scientific journals and at ICES Working groups

10. Scientific Equipment

Coastal State United Kingdom

Port Call No

Indicate "Yes" or "No"

Dates N/A

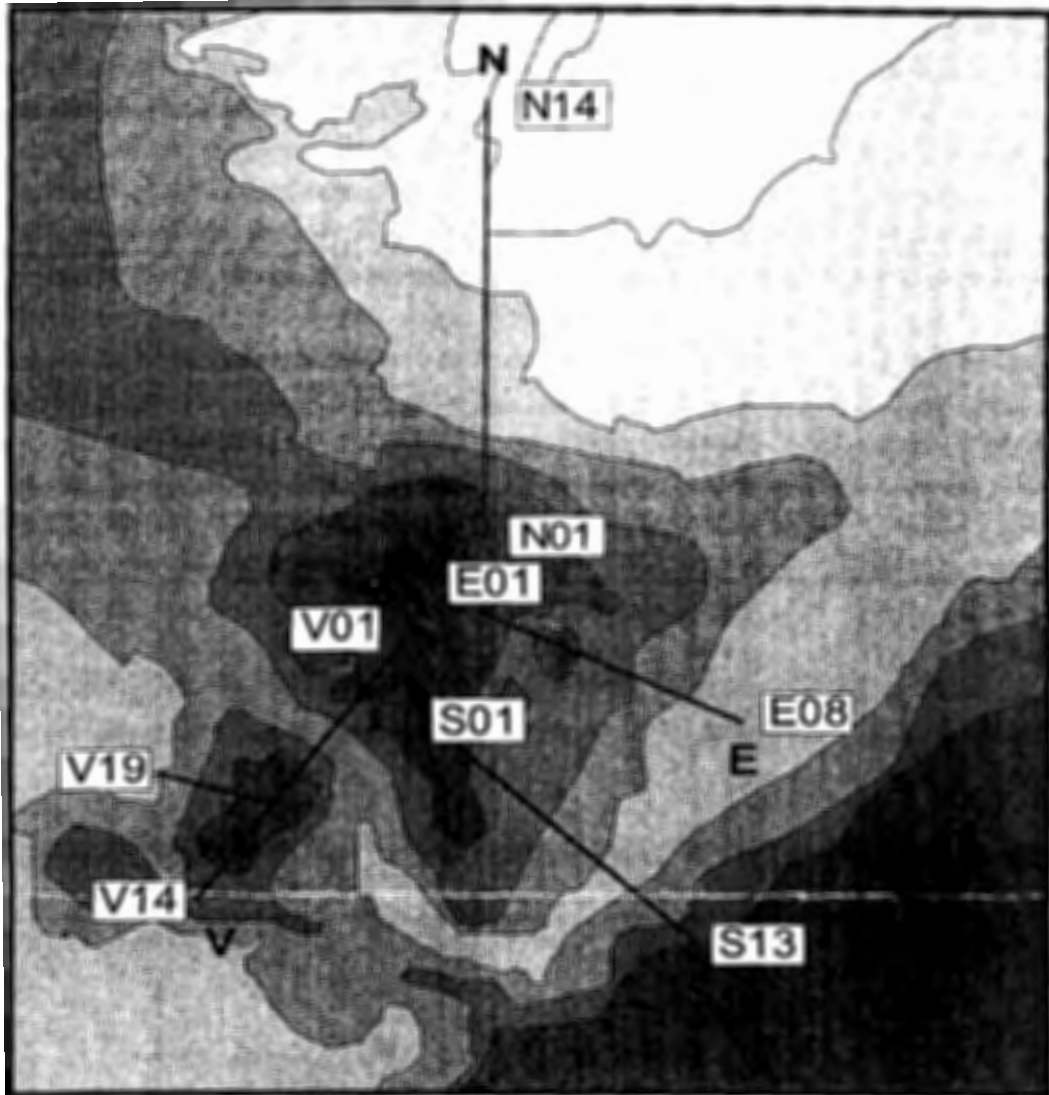
<u>LIST SCIENTIFIC WORK BY FUNCTION</u> eg: magnetometry, gravity, diving, seismics, bathymetry, sea bed sampling, trawling, echo sounding, water sampling, u/w TV, moored instruments, towed instruments	Water column including sediment sampling of the sea bed	Fisheries research within fishing limits	Research concerning the natural resources of the Continental Shelf or its physical characteristics	Distance from coast within 12 nms	Distance from coast between 12-200 nm	(Continental Shelf work only) Beyond 200 nm but within the Continental margin
Water sampling	Yes	No	No	No	Yes	No
Plankton sampling	Yes	No	No	No	Yes	No

Bogi Hansen

Dated 1. Dec. 2005



NB: 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



Chart, showing the standard sections (thick lines) along which CTD observations, water and plankton samples will be taken on this cruise. Start and end stations on each section are indicated.