HAVSTOVAN
FAROE MARINE RESEARCH INSTITUTE

Fiskimálaráðið
Bókbindaragøta 8
P.O.Boks 347
FO-110 Tórshavn

Tórshavn 21. desembur 2016

Umsókn

Hjáløgd er ein umsókn (í trimum eintøkum) til R/S Magnus Heinason at fara í bretskan sjógv í tíðarskeiðnum 15. – 22. februar 2017. Tit verða biðin um at senda umsóknina víðari til Ríkisumboðið saman við fylgiskrivi.

Vinaliga

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

Date: 21.12.2016

1. General Information

1.1 Ship and cruise number: Magnus Heinason Cruise 1702

1.2 Sponsoring institution:

Name:	Havstovan
Address:	PO Box 3051, Nóatún, FO-110 Tórshavn Faroe Islands
Name of director:	Dr. Eilif Gaard

1.3 Scientist in charge of project:

Name:	Dr. Karin Margretha H. Larsen
Address:	Havstovan 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. Barbara Berx
Address:	SOAFD Marine Laboratory 375 Victoria Road, PO Box 101 Aberdeen AB11 9DB

1.5 Submitting officer:

Name:	Dr. Karin Margretha H. Larsen
Address:	Havstovan 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 and ADCP moorings in the Faroe-Shetland Channel are in collaboration with the Marine Scotland (Marine Laboratory in Aberdeen). This work is carried out within the European Union 7th Framework Programme (FP7 2007-2013), under grant agreement n.308299 NACLIM.

2.2 Relevant previous or future research cruises:

2013	05.06-12.06	Magnus Heinason
2013	28.08-04.09	Magnus Heinason
2014	12.02-19.02	Magnus Heinason
2014	14.05-21.05	Magnus Heinason
2014	04.06-11.06	Magnus Heinason
2014	27.08-03.09	Magnus Heinason
2015	11.02-18.02	Magnus Heinason
2015	20.05-27.05	Magnus Heinason
2016	10.02-17.02	Magnus Heinason
2016	18.05-25.05	Magnus Heinason
2016	31.08-07.09	Magnus Heinason

2.3 Previously published research data relating to the project:

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.

Berx, B., Hansen, B., Østerhus, S., Larsen, K. M., Sherwin, T., and Jochumsen, K. 2013. Combining in-situ measurements and altimetry to estimate volume, heat and salt transport variability through the Faroe Shetland Channel. Ocean Sci., 9, 639–654, 2013. www.ocean-sci.net/9/639/2013/. doi:10.5194/os-9-639-2013.

Hansen, B., Larsen, K. M. H., Hátún H., Østerhus, S., 2016. A stable Faroe Bank Channel overflow 1995–2015. Ocean Sci., 12, 1205–1220, 2016. www.ocean-sci.net/12/1205/2016/. doi:10.5194/os-12-1205-2016.

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: Havstovan
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):

Generally, CTD observations with water and plankton samples will be occupied along the standard sections shown in the attached chart1 within the area

60°13'N-64°30'N
08°35'W-03°42'W

On this cruise (1702) we will occupy these CTD stations in British waters:

S15	60° 26.80'N	4° 36.33'W
S16	60° 22.85'N	4° 30.60'W
S17	60° 17.50'N	4° 27.50'W
S18	60° 13.75'N	4° 17.13'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.

1 chart 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: 15.02.2017
Exit: 22.02.2017

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 Scotland Laboratory in Aberdeen (Dr. Barbara Berx) 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 Scotland Laboratory, Aberdeen, c/o Dr. Barbara Berx

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

LIST SCIENTIFIC WORK BY FUNCTION 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

Karin Margretha H. Larsen

Dated 21. December 2016

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

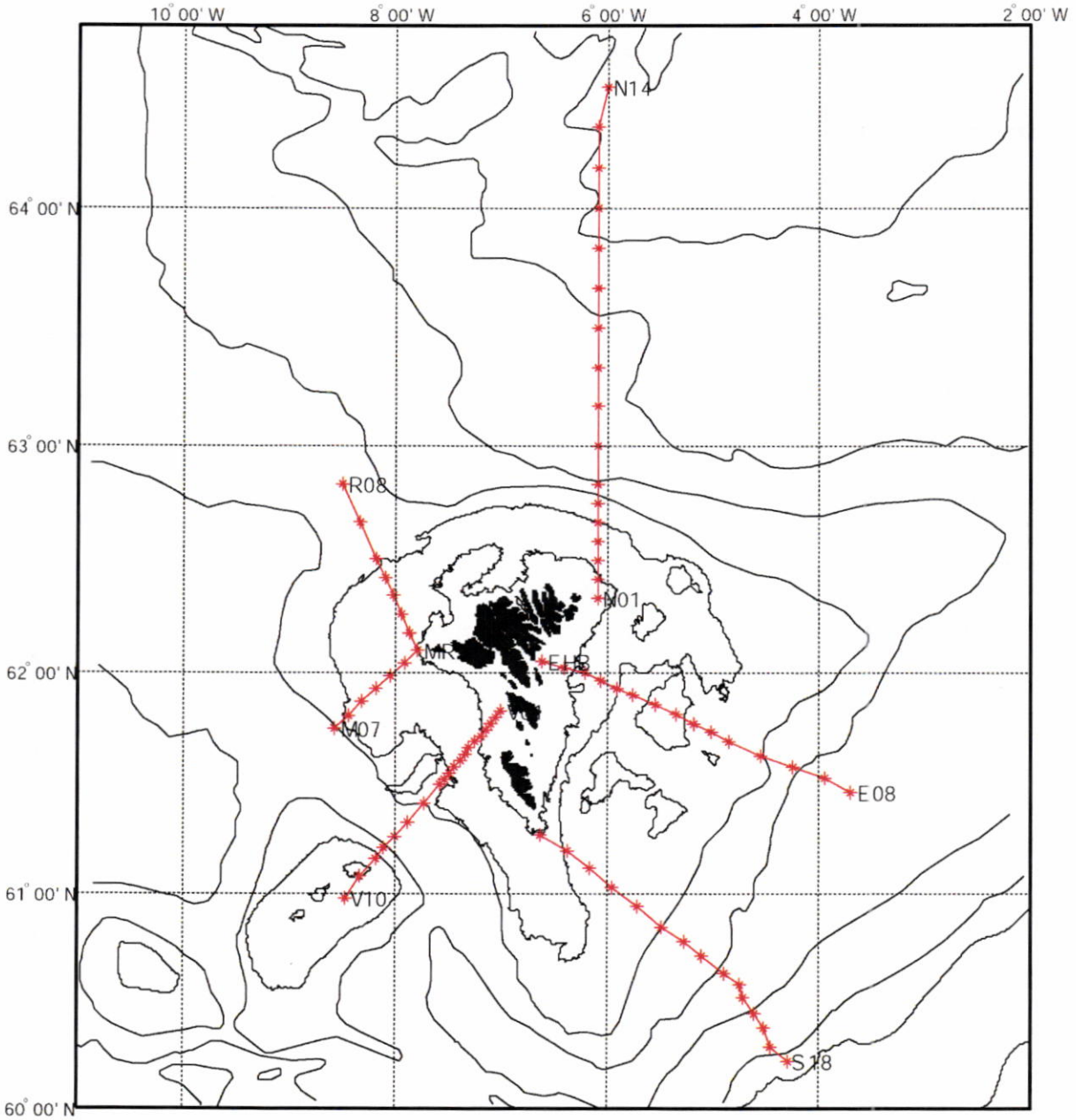

Chart1, showing the standard sections (red lines – red stars indicate stations) along which CTD observations, water and plankton samples are acquired. Start and end stations on each section are indicated.