

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

Tórshavn 20. Mars 2014

Umsókn

Hjáløgd er ein umsókn (í trimum eintøkum) til R/S Magnus Heinason at fara í bretskan sjógv í maj 2014. Tit verða biðin um at senda umsóknina víðari til Ríkisumboðið saman við fylgiskrivi.

Vinaliga igur 4 anc Julia Karin Margretha H. Larsen

# FISKIMÁLARÁÐIÐ

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

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## Date: 20.03.2014

# 1. General Information

1.1	Ship and cruise number:	Magnus Heinason Cruise 1418				
1.2	Sponsoring institution: Name: Address:	Havstovan 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 know	ledge of the project:				
	Name:	Dr. Barbara Berx				
	Address:	SOAFD Marine Laboratory				
		375 Victoria Road, PO Box 101				
		Aberdeen AB11 9DB				
15	Submitting officer:					
1.5	Name:	Dr. Karin Margretha H. Larsen				
	Address:	Havstovan				
		PO Box 3051, Nóatún				
		FO-110 Tórshavn				
		Faroe Islands				
	Telephone:	+298 353900				

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Telefax:

#### 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:

2009	04.11-11.11	Magnus Heinason
2010	18.02-23.02	Magnus Heinason
2010	13.05-16.05	Magnus Heinason
2010	01.09-08.09	Magnus Heinason
2010	03.11-08.11	Magnus Heinason
2013	05.06-12.06	Magnus Heinason
2013	28.08-04.09	Magnus Heinason
2014	12.02-19.02	Magnus Heinason
2014	04.06-11.06	Magnus Heinason
2014	27.08-03.09	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.

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. Discuss., 10, 153–195, 2013 <u>www.ocean-sci-discuss.net/10/153/2013/</u> doi:10.5194/osd-10-153-2013.

#### 3. Methods and Means to be Used

#### 3.1 Particulars of vessel:

Name:	FRV Magnus Heinas	son Nationality: Faroese		
Owner:	Føroya Landsstýri (T	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 4	07		
Method and ca	pability of communi	cation: Radio-telephone		
ame of master: Dánial J. Lydersen				
Number of crev	<b>v:</b> 10			
Number of scie	ntists 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 chart within the area

> 59°30'N-64°30'N 08°35'W-03°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: 14.05.2014 Exit: 21.05.2014

## 6.2 Indicate if multiple entry is expected:

No

2

#### 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

#### Indicate "Yes" or "No"

Dates

3

7

N/A

No

LIST SCIENTIFIC WORK BY FUNCT- ION eg: magnetometry, gravity, diving, seismics, bathymetry, sea bed sampling, trawling, echo sounding, water sampling, u/w TV, moored instruments, towed instru- ments	Water column inclu- ding 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 Plankton sampling	Yes	No	No No	No No	Yes	No

#### Karin Margretha H. Larsen

#### Dated 20. March 2014

## 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 (red lines – red stars indicate stations) along which CTD observations, water and plankton samples regularly take place. Start and end stations on each section are indicated.