

**APPLICATION FOR CONSENT TO CONDUCT MARINE  
SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL  
JURISDICTION OF ICELAND**

**Date:** 18.04.2017

***1. General Information***

**1.1 Ship and cruise number:** Magnus Heinason Cruise 1720

**1.2 Sponsoring institution:**

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

**1.3 Scientist in charge of project:**

**Name:** Karin Margretha H. Larsen  
**Address:** Havstovan  
PO Box 3051, Nóatún  
FO-110 Tórshavn  
Faroe Islands  
**Telephone:** +298 353900  
**Email:** karinl@hav.fo

**1.4 Scientist from Iceland with knowledge of the project:**

**Name:** Héðinn Valdimarsson  
**Address:** Hafrannsóknarstofnun  
Skúlagötu 4  
121 Reykjavík, Iceland

**1.5 Submitting officer:**

**Name:** Karin Margretha H. Larsen  
**Address:** Havstovan  
PO Box 3051, Nóatún 1  
FO-110 Tórshavn  
Faroe Islands  
**Telephone:** +298 353900  
**Email:** karinl@hav.fo

## *2. Description of Project*

### **2.1 Nature and objectives of the project:**

The aim of the project is to:

- Recover an Acoustic Doppler Current Profiler (ADCP) in a trawl-proof, bottom-mounted mooring at position 64°26,70N, 012°03,76W, bottom depth 407 m, which was deployed by RV Poseidon on the 14. August 2016.
- Upload data from two bottom mounted temperature recorders.
- Occupy a CTD (Conductivity, Temperature, Depth) section across the location of the instruments.

These measurements are part of the Danish funded Western Valley Overflow project. More details on this project can be found at [www.amap.no](http://www.amap.no).

### **2.2 Relevant previous or future research cruises:**

None

### **2.3 Previously published research data relating to the project:**

Olsen, S.M., Hansen, B., Østerhus, S., Quadfasel, D., Valdimarsson, H., 2016. Biased thermohaline exchanges with the Arctic across the Iceland-Faroe Ridge in ocean climate models. *Ocean Sci.* 12, 545–560. doi:10.5194/os-12-545-2016

### 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
Mooring recovery	Acoustic release	Oceano command unit
Data upload	Acoustic communication	Linkquest surface modem

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):

Recovery of ADCP mooring at position 64°26,70N, 012°03,76W, depth 407 m, deployed by RV Poseidon on the 14. August 2016.

#### ***5. Geographical Areas***

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

CTD section and moorings are along the line:

64°34'N, 12°18'W - 64°15N, 011°34'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:**

Depending on the weather conditions, the ship will enter Icelandic waters, occupy the CTD section, upload temperature data, recover the mooring, and depart some time in the period:

Entry: 17.05.2017

Exit: 27.05.2017

If it is not possible to do the intended work in this period (due to unforeseen reasons like inclement weather or ship failure) a second option is the period:

Entry: 07.06.2017

Exit: 14.06.2017

**6.2 Indicate if multiple entry is expected:**

No

## *7. Port Calls*

**7.1 Dates and names of intended ports of call in Iceland:**

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 Iceland will be enabled to participate or to be represented in the research project:**

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 Iceland 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 Iceland to data and samples:**

By cruise report

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

By individual communication. Data will also be accessible on [www.envofar.fo](http://www.envofar.fo)

**9.4 Proposed means of making research results internationally available:**

In scientific journals and Western Valley Overflow project reports.

### *10. Scientific Equipment*

**Coastal State**    Iceland

**Port Call**        No

*Indicate "Yes" or "No"*

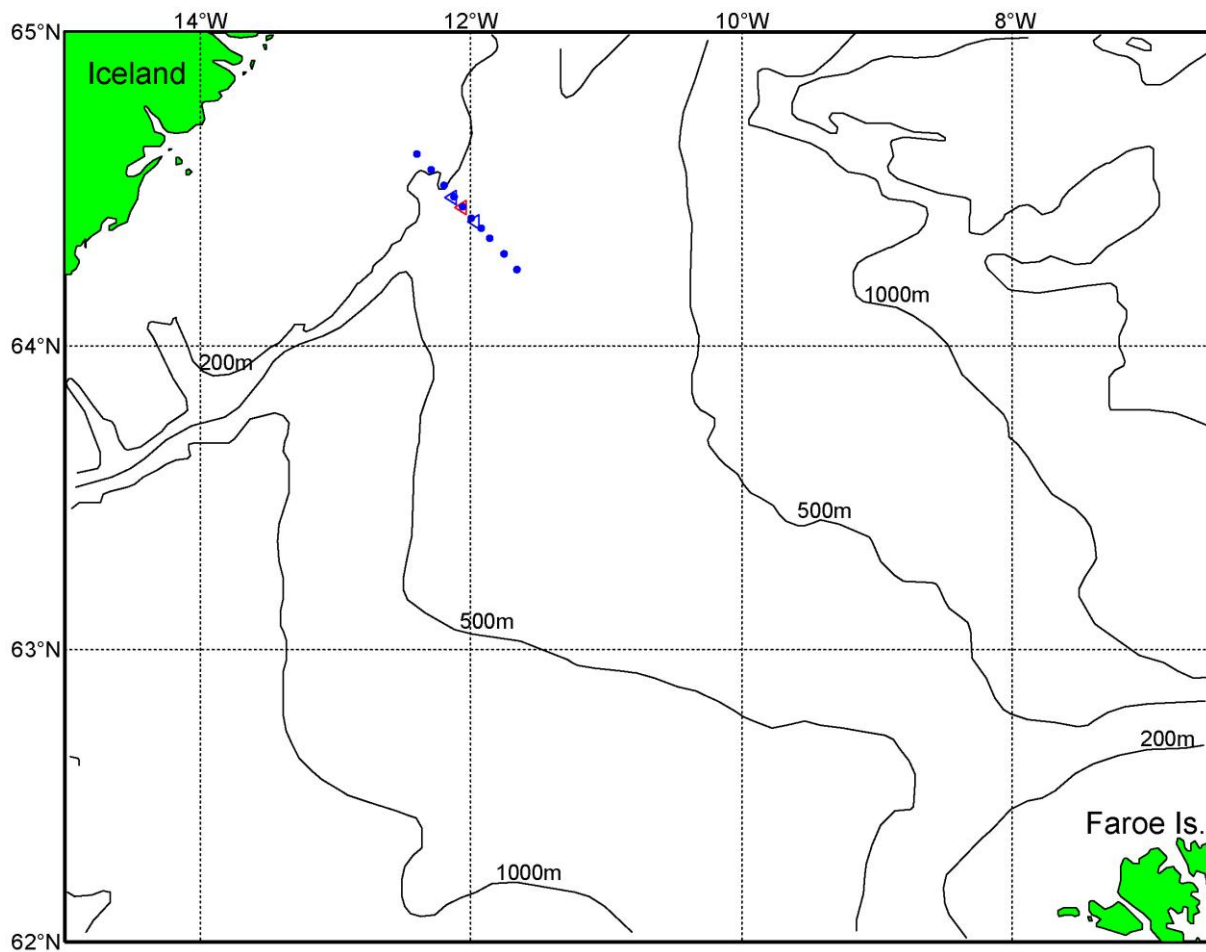
**Dates**            N/A

<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
Mooring recovery	Yes	No	No	No	Yes	No
Water sampling	Yes	No	No	No	Yes	No

*Karin Margretha H. Larsen*

Dated 18. April 2017

**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 stations to be occupied. Blue dots indicate CTD stations, blue triangles indicate Bottom temperature moorings, red triangle indicates ADCP mooring to be recovered.