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## ICES søknadsskjema

#### NOTIFICATION OF PROPOSED RESEARCH CRUISE

#### PART A: GENERAL

1. NAME OF RESEARCH SHIP "HÅKON MOSBY" CRUISE NO. 2013616

2. DATES OF CRUISE From: 18 July 2013 To: 31 July 2013

3. <u>OPERATING AUTHORITY:</u> Institute of Marine Research

P.O.Box 1870 Nordnes N-5817 BERGEN NORWAY TELEPHONE: 47-55238500 TELEFAX: 47-55238531 TELEX: 42297 OCEAN N E-MAIL: post@imr.no

4. <u>OWNER</u>

(if different from no. 3)

5. PARTICULARS OF SHIP: Name: "HÅKON MOSBY"

Nationality: Norwegian

Overall length: metres
Maximum draught: metres

Net tonnage:

Propulsion: Diesel

Call sign:

Registration port and number (if registered fishing vessel)

6. <u>CREW</u> Name of master:

Number of crew:

7. <u>SCIENTIFIC PERSONNEL</u> Name and address of scientist in charge:

Henrik Søiland

Institute of Marine Research P.O.Box 1870 Nordnes N-5817 BERGEN NORWAY Tel/telex/fax no.: +47 55238453

No. of scientists:

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)

Norwegian Sea and Iceland Sea (66-71° N, 22 W-20E). (See also the chart at the end of the document)

#### 9. <u>BRIEF DESCRIPTION OF PURPOSE OF CRUISE</u>

The cruise is part of a research project where the aim is to investigate the water masses in the Iceland and Norwegian Sea. In the project Norwegian and Icelandic scientists collaborate. The studies include hydrographic measurements, deployment of both surface and subsurface drifters and moorings.

10. <u>DATES AND NAMES OF INTENDED PORTS OF CALL</u>

18 July 2013: Tromsø, Norway

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31 July 2013, Tromsø, Norway ~22 July 2013, Raufarhöfn, Iceland

#### 11. <u>ANY SPECIAL REQUIREMENTS AT PORTS OF CALL</u>

#### NOTIFICATION OF PROPOSED RESEARCH CRUISE

#### **PART B: DETAIL**

1. NAME OF RESEARCH SHIP "Håkon Mosby" CRUISE NO. . 2013616

2. DATES OF CRUISE From: 18 July 2013 To: 31 July 2013

#### a) <u>PURPOSE OF RESEARCH</u>

The cruise is part of a research project where the aim is to investigate the water masses in the Iceland and Norwegian Sea. In the project Norwegian and Icelandic scientists collaborate. The studies include hydrographic measurements, deployment of both surface and subsurface drifters and moorings.

b) <u>GENERAL OPERATIONAL METHODS</u> (including full description of any fish gear, trawl type, mesh size, etc.)

CTD probe with multi water-sampler

ADCP current measurements

Recover and deployment of subsurface moorings

Deployment of surface drifters

Deployment of subsurface RAFOS drifters.

4. <u>ATTACH CHART</u> showing (on an <u>appropriate</u> scale) the geographical area of intended work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished

A chart showing the planned cruise track is at the end of the document

5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide.

Seawater sampling for salinity (CTD) calibration

b) <u>METHODS OF OBTAINING SAMPLES</u> (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).

Water samples

#### 6. <u>DETAILS OF MOORED EQUIPMENT</u>

Two moorings will be recovered and deployed for another year.

The other moorings will be deployed at this cruise and remain in the water for approximately two years. The moorings are subsurface and the top of the moorings are located 600 meter below the sea surface. The moorings are equipped with an acoustic release that will be activated at recovery. At the map the mooring positions are shown. The acoustic signals from each sound source will be an 80 second long CW (continuous wave) pulse at 260 Hz transmitted twice a day. The signal strength is estimated to be 179 dB re 1 microPascal at 1 m distance.

<u>Dates</u>

LayingRecoveryDescriptionDepthLatitudeLongitude18-31 July 2013June 2014Measure current400 m67 N13.5 W



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18-31 July 2013	June 2014	Measure current	800 m	67 N	13.5 W
18-31 July 2013	July 2015	See above	1200m	68.5°N	18°W
18-31 July 2013	July 2015	See above	1500m	68°N	8.25°W
18-31 July 2013	July 2015	See above	1500m	67°N	10°W
18-31 July 2013	July 2015	See above	2000m	69°N	14°W

The positions are approximately.

- 7. <u>ANY HAZARDOUS MATERIALS</u> (chemicals/explosives/gases/radioactives, etc. (Use separate sheet if necessary)
  - 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 date(s) of detonation
    - Method of detonation
    - Position of detonation
    - Frequency of detonation
    - Depth of detonation
    - Size of explosive charge in kg.

#### 8. <u>DETAIL AND REFERENCE OF</u>

a) Any relevant previous/future cruises

A similar research cruise was performed in 2012 when the moorings were deployed. A similar cruise is also planned the next two years, summer of 2014 and 2015 for recovering of the moorings.

- b) Any previously published research data relating to the proposed cruise
- 9. NAME AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE

Hedinn Valdimarsson, Skulagata 4, 121 Reykjavik, Iceland, tel: 354-5752000, 354-5752063 (direct) Steingrimur Jonsson, University of Akureyri, Borgir v/Norðurslóð, 600 Akureyri, Iceland

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

The data will go into international databases ICES and will therefore be available to all scientists.

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PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Iceland
Port call: Raufarhöfn, Iceland
Dates: ~20-24 July 2013

Indicate "YES or "NO"

					Distance from coast		
List scientific work by function  e.g. Magnetometry Gravity Diving Seismics Seabed sampling Bathymetry Trawling Echo sounding Water sampling U/W TV Moored instr. Towed instr.	Water column including sediment sampling of the seabed	Fisheries research within fishing limits	Research concerning the natural resources of the continental shelf or its physical characteristics	Within 4 nm	Between 4-12 nm	Between 12 and 200 nm	
CTD	Yes	No	Yes	No	No	Yes	
Rosette	Yes	No	Yes	No	No	Yes	
Underway systems	Yes	No	Yes	No	No	Yes	
Ecco sounding	Yes	No	Yes	No	No	Yes	
Water sampling	Yes	No	Yes	No	No	Yes	
Towed Instrument	No	No	No	No	No	No	
Trawling	No	No	No	No	No	No	
Moored Instruments	Yes	No	Yes	No	No	Yes	
Surface drifters	Yes	No	Yes	No	No	Yes	

(On behalf of the Principal Scientist)

Date: 8 March 2013

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.



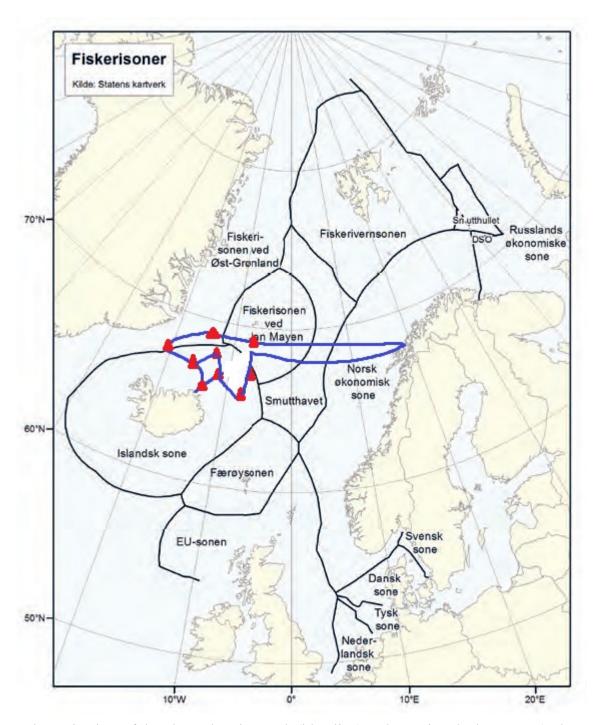
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Schematic view of the planned cruise track (blue line) and mooring deployments (red triangles).