

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: "Håkon Mosby" CRUISE NO. 2010611
  
2. DATES OF CRUISE From: 10. june To: 12 June, 2010
  
3. OPERATING AUTHORITY: Institute of Marine Research  
P.O.Box 1870 Nordnes  
N-5024 BERGEN NORWAY  
  
TELEPHONE: 47-55238500  
TELEFAX : 47-55238531  
TELEX: 42297 OCEAN N  
EMAIL: [post@imr.no](mailto:post@imr.no)
  
4. OWNER  
(if different from  
no. 3)
  
5. PARTICULARS OF SHIP: Name: "Håkon Mosby"  
  
Nationality: Norwegian  
  
Overall length: 48 metres  
  
Maximum draught: 4,5 metres  
  
Net tonnage: 499  
  
Propulsion: Diesel  
  
Call sign: L J I T  
  
Registration port and number  
(if registered fishing vessel)  
Bergen
  
6. CREW Name of master: John Gerhard Aasen / Jonny Karlsen  
  
Number of crew: 11
  
7. SCIENTIFIC PERSONNEL Name and address of  
scientist in charge:

Prof. Rolf Mjelde  
Department of Earth Science  
University of Bergen  
Allegt. 41

5007 Bergen  
Norway

Tel/telex/fax no.: Tel: 47 55582879 Fax: 47 55583660

No. of scientists: 8

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

64-69°N 7-0°W

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

Ocean bottom seismic 2D profile (line on attached map) and dredge samples from sea bottom (circles on attached map).

10. DATES AND NAMES OF INTENDED PORTS OF CALL

Bergen 27 May, Bergen 14 June

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

None

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PART B: DETAIL

1. NAME OF RESEARCH SHIP: "Håkon Mosby" CRUISE NO. 2010611

2. DATES OF CRUISE From 10.june To 14 June, 2010

3. a) PURPOSE OF RESEARCH

Ocean bottom seismic profile to obtain the crustal structure along a 2D profile. Gravity data will be acquired along the same profile. Dredge samples to find the rock type at sea bottom at specific locations. The purpose is to investigate the evolution of the extinct spreading ridge, the Aegir Ridge, along its strike. Particular emphasis will be on the interplay between volcanism and tectonism. Norwegian Research Council funded basic research.

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

Seismic: standard air-gun source, 4.800 inch<sup>3</sup> used every 200 m along profile. Standard Ocean bottom seismometers will be located on the sea bottom as receivers. These will be retrieved after using the air-guns.  
Dredge: simple marine dredge will be used to retrieve loose rock samples from sea floor.

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

The attached chart shows: Ocean bottom seismic 2D profile (line on attached map) and dredge samples from sea bottom (circles on attached map).

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

Geological rock samples.

- b) METHODS OF OBTAINING SAMPLES (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)

Standard dredging for rock samples on sea floor.

6. DETAILS OF MOORED EQUIPMENT  
None

<u>Dates</u>		<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
<u>Laying</u>	<u>Recovery</u>				

7. ANY HAZARDOUS MATERIALS (chemicals/explosives/gases/radioactives, etc.  
(Use separate sheet if necessary)

None.

- 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. DETAIL AND REFERENCE OF  
a) Any relevant previous/future cruises

A large quantity of ocean bottom seismic profiles of this type has been acquired on the Norwegian shelf since 1988. One similar survey was conducted in Faroe waters in 1995 (reference below).

- b) Any previously published research data relating to the proposed cruise

Raum, T., Mjelde, R., Berge, A.M., Paulsen, J.T., Digranes, P., Shimamura, H., Shiobara, H., Kodaira, S. Larsen, V.B. Fredsted, R., Harrison, D.J. and Johnsen, M. 2005. Sub-basalt structures east of the Faroe Islands revealed from wide-angle seismic and gravity data. Petroleum Geoscience, 11, 291-308.

9. NAMED AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE

None

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

Yes. Embarkation: 26 May, disembarkation: 14 June

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

September 2010: cruise report, digital seismic data.

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Iceland

Port call: None

Dates:

Indicate "YES or "NO"

<u>List scientific work by function</u>	<u>Distance from coast</u>					
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 12-200 nm
Gravity	Yes	No	No	No	No	Yes
Echo sounding	Yes	No	No	No	No	Yes
Seismic	Yes	No	No	No	No	Yes
Seabed sampling	Yes	No	No	No	No	Yes

  
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Operation Officer - Terje Hindenes

(On behalf of the principal Scientist)



HAVFORSKINGEN INSTITUTTET  
INSTITUTE OF MARINE RESEARCH  
Forskingsinstituttet for akvakultur og fiskeri  
P.O. Box 187A, Sandnessjøen, NO-817 Sandnessjøen, Norway

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Dated :

29.05.2010

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.