NOTIFICATION OF PROPOSED RESEARCH CRUISE

ICELAND

GENERAL

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Part A

Cruise No. MSM05-6 MARIA S. MERIAN 01. Name of research ship: Dates of cruise from 29. August, Kiel, to 15. September 2007, Torshavn 02. Institut für Meereskunde / University of Hamburg 03. Operating Authority Bundesstr. 53, D-20146 Hamburg, Germany Tel.: +49-40-42838-3974 - Fax: +49-40-42838-46 44 Telex: 212586 ifmhh d Federal State Mecklenburg-Vorpommern, Germany 04. Owner MARIA S. MERIAN Particulars of ship: Name 05. Nationality German 94,8 metres

Nationality
Overall length
Maximum draught
Nett tonnage
Propulsion
Call sign

German
94,8 metres
6,5 metres
1750 NRZ
Diesel Electric
D B B T

06. Crew Name of master Kapt. K. Bergmann No. of crew max. 23

07. Scientific personnel: Name and address of scientist in charge *Prof. Dr. Detlef Quadfasel University of Hamburg*

Bundesstr. 53

D-20146 Hamburg, GermanyTel. **0049 40 42838 5756**

Fax 0049 40 42838 5756
e-mail 0049 40 42838 7477
detlef.quadfasel@zmaw.de

No. of scientists max. 23

08. Geographical areas in which ship will operate *Iceland – Faroe Ridge*,

09. Brief description of purpose of cruise

The main aim of the research is to study mixing processes in the Faroese overflows. In Icelandic Waters the recovery of a mooring is planned, plus a short CTD/IADCP Microstructure section at the mooring site.

It will be attempted to recover the mooring in August 2007 with the Icelandic RV Árni Friðriksson by Dr. Hedinn Valdimarsson (HAFRO). If that attempt fails, e.g. because of bad weather or logistical reasons, the recovery shall be done with RV Maria S. Merian.

10. Dates and names of intended ports of call

11. Any special logistic requirements at ports of call **n/a**

Part B

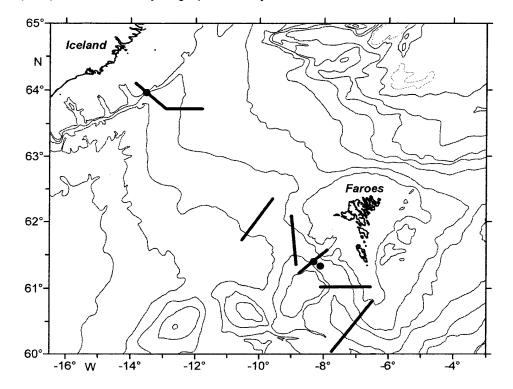
01. Name of research ship *RV MARIA S. MERIAN* Cruise No. MSM05-6

02. Dates of cruise from: 29. August 2007 to: 15. September 2007

03. Purpose of research and general operational methods

The main aim of the research is to study the entrainment of ambient waters into overflow plumes. Classical CTD and lowered ADCP profiles will be taken and in addition Microstructure turbulence profiles.

O4. Chart showing the geographical area of the intended work, positions of moorings (dots) and tracks of hydrographic survey lines.



05. Types of samples required water, hydro acoustic data,

and methods by which samples will be obtained pumping, hydro acoustic measuring

06. Details of moored equipment:

Mooring recovery:

Name	Name Latitude		Water depth	
FRS-ADCP	63°57,91' N	013°31.07' W	584	

07. Explosives:

no explosives

- 08. Detail and reference of
 - (a) Any relevant previous / future cruises

RRS Charles Darwin cruise 163/164 September 2004 RV Árni Friðriksson August 2005 RRS DISCOVERY cruise D311 September/October 2006 RV Maria S,. Merian cruise MSM05-4 July 2007

(b) Any previous published research data relating to the porposed cruise.

Hansen, B., S. Østerhus, D. Quadfasel, W. Turrell (2004) Already the Day After Tomorrow? SCIENCE, 305, 953-954.

Høyer, J.L., and D. Quadfasel (2001) Detection of cold overflows from altimeter satellites. Geophys. Res. Let., 28, 1611-1614.

Käse,R.H., J. B. Girton and T. B. Sanford, 2003: Structure and variability of the Denmark Strait Overflow: Model and observations J. GEOPHYS. RES., 108, 3181, doi:10.1029/2002JC001548, 2003

Rudels, B., D. Quadfasel, and H.J. Friedrich (1999) The Arctic circumpolar boundary current. Deep-Sea Res. II, 46, 1023-1062.

09. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

Name:

Dr. Hédinn Valdimarsson

Marine Research Institute

Address:

Skulagata 4 121 Reykjavik

Iceland

Telephone:

00354 552 0240

Telefax:

00354 562 3790

e-mail:

hv@hafro.is

- 10. State:
 - (a) Whether visitis to the ship in port by scientists of the coastal state concerned will be acceptable.
 - (b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation / disembarkation.

 Yes, upon request. Kiel 29. August 2007, Torshavn 15. September 2007
 - (c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.
 - Cruise Report three months after finishing the research cruise
 - Scientific publication within the following three years
 - navigational and bathymetric data (CD ROM) within 3 months

COASTAL STATE: Iceland

SCIENTIFIC EQUIPMENT

11. Complete the following table - SEPARATE COPY FOR EACH COASTAL STATE (indicate 'YES' or 'NO')

proposed to use and indicate within Continental Within Between Between Between waters in which it will be Fishing Shelf out to 3 3 - 12 12 - 50 50 - 200 deployed Limits Coastal State's NM NM NM NM NM Margin
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a) vessel mounted systems: hydroacoustic mapping / measuring (incl. ADCP, Parasound and multibeam)	No	Yes	No	Yes	Yes	Yes
permanent surface water sampling / pumping (incl. Thermosalinograph)	No	yes	No	Yes	Yes	Yes
b) mobile equipment Hydrographic profiling: CTD and water sampling	No	Yes	Yes	Yes	Yes	Yes