A

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: "G.O.Sars" CRUISE NO. 2009108

2. DATES OF CRUISE From: May 28 - 2009 To: August 11 - 2009

3. OPERATING AUTHORITY: Institute of Marine Research
P.O.Box 1870 Nordnes
N-5817 BERGEN NORWAY

TELEPHONE: 47-55238500
TELEFAX : 47-55238531
TELEX: 42297 OCEAN N

4. OWNER
(if different from
no. 3)

5. PARTICULARS OF SHIP: Name: "G. O. SARS"

Nationality: Norwegian

Overall length: 77,5 metres

Maximum draught: 7,30 metres

GRT : 4067 tonnes

Propulsion: DC-Electric

Call sign: LMEL

Registration port and number
(if registered fishing vessel):
Bergen
Telephone: +47 55906440
Telefax:: +47 55906441
E-mail: GOSars@IMR.no

6. CREW Name of master: John Hugo Johnsen, Preben Vindenes
Number of crew: 15

B

7. SCIENTIFIC PERSONNEL

Name and adress of
scientist in charge: Truls Johannessen*/Kjell Arne Mork **

*Bjerknes Centre for Climate Research,
University of Bergen
Allégaten 55
N-5007 Bergen, Norway

**Institute of Marine Research
P.O.Box 1870 Nordnes
N-5817 BERGEN NORWAY

Tel/telex/fax no.: *(47)55584327 / (47)55584330
**(47)55238500 / (47)55238531

No. of scientists: 20

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

Norwegian, Greenland and Iceland Seas
Outline:
$80^0$00N, 20^0 00W
$59^0$00N, 26^0 E

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

The purpose of the cruise it to get a near synoptic mapping of the Nordic Seas (Norwegian, Iceland and Greenland Seas) for physical, chemical and biological parameters. On the oceanographic cruise there will be used CTD and rosette for water sampling, acoustic, trawling and towed vehicle (include optical and acoustic sensors. In addition will two moorings that include acoustic current profiler and current meter be recovered. This cruise is a part of the EU-projects CARBOOCEAN and MERCLIM, and the Norwegian funded project HARVEST, and the IMR's environmental monitoring programme.

10. DATES AND NAMES OF INTENDED PORTS OF CALL

About mid-June in Longyearbyen
About mid July perhaps a port in Iceland.

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

C

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

1. NAME OF RESEARCH SHIP: "G.O. Sars" CRUISE NO. 2009108

2. DATES OF CRUISE From: May 28. 2009 To: August 11. 2009

3. a) PURPOSE OF RESEARCH

The purpose of the cruise it to get a near synoptic mapping of the Nordic Seas (Norwegian, Iceland and Greenland Seas) for physical, chemical and biological parameters. On the oceanographic cruise there will be used CTD and rosette for water sampling, acoustic, trawling and towed vehicle (include optical and acoustic sensors. In addition will two moorings that include acoustic current profiler and current meter be recovered. This cruise is a part of the EU-projects CARBOOCEAN and MERCLIM, and the Norwegian funded project HARVEST, and the IMR's environmental monitoring programme.

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

CTD corer (1 m long)
Rosette/water sampler (2 m long)
Underway measuring systems, continuous flow of seawater into ship born instrumentation
Krill/zooplankton trawl
Towed vehicle that includes CTD, Optical Plankton Recorder and acoustic (2-4 frequency).

4. ATTACH CHART showing (on an appropriate scale) the geographical area of intended work,
For the site of operation see the attached map.

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

Seawater and plankton sampling

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)

24 Niskin bottles 10 liter automatic rosette, CTD and ADCP
Vertical and towed hauls with net for plankton sampling
Pelagic trawls for zooplankton catches

6. DETAILS OF MOORED EQUIPMENT

Dates Laying	Recovery	Description	Depth	Latitude	Longitude
June2008	mid July, 2009	Measure current	100-800 m (bottom)	69.7 N	8.3 W
June2008	mid July, 2009	Measure current	100-2000 m (bottom)	68.7 N	8.4 W

D

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

a) Type and trade name NIL

b) Chemical content (and formula) NIL

c) IMO IMDG code (reference and UN no.) NIL

d) Quantity and method of storage on board NIL

e) If explosives give date(s) of detonation NIL

- 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

Previous Cruises

Future Cruises

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

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

Hedinn Valdimarsson, Skulagata 4, 121 Reykjavik, Iceland
Bogi Hansen, Faroese Fisheries Laboratory, Nóatún 1, FO-110 Tórshavn, Faroe Islands

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.

E

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Denmark (Greenland)

Port call: No

Dates: 28 May - 20 July 2009

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 characteris-tics	Within 4 n.mi.	Between 4-12 n.mi.	Between 12 and 200 n.mi.
CTD	Yes	No	Yes	Yes	Yes	Yes
Rosette	Yes	No	Yes	yes	Yes	Yes
Underway systems	Yes	No	Yes	Yes	Yes	Yes
Ecco sounding	Yes	No	Yes	yes	yes	Yes
Water sampling	yes	No	Yes	Yes	yes	Yes
Towed Instrument	No	Yes	No	No	No	Yes
Trawling	No	Yes	No	No	No	Yes
Moored Instrument	No	No	No	No	No	No
Autonomous vehicle	No	No	No	No	No	No

Operation Officer - Terje Hindenes

(On behalf of the principal Scientist)

HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH
Redaksjonen / Research Vessel Division
P.O.Box 1870 Nordnes - N-5817 Bergen - Norway

Dated 1st of December 2008

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.

PART C. SCIENTIFIC EQUIPMENT

F

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

Coastal state: Iceland

Port call: Maybe in mid july

Dates: 1 -20 July – 2009

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 characteris-tics	Within 4 n.mi.	Between 4-12 n.mi.	Between 12 and 200 n.mi.
CTD	Yes	No	Yes	Yes	Yes	Yes
Rosette	Yes	No	Yes	yes	Yes	Yes
Underway systems	Yes	No	Yes	Yes	Yes	Yes
Ecco sounding	Yes	No	Yes	yes	yes	Yes
Water sampling	yes	No	Yes	Yes	yes	Yes
Towed Instrument	No	No	No	No	No	No
Trawling	No	No	No	No	No	No
Moored Instrument	No	No	No	No	No	No
Autonomous vehicle	No	No	No	No	No	No

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PART C. SCIENTIFIC EQUIPMENT

G

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

Coastal state: Faorese Islands

Port call: No

Dates: 1 -20 July – 2009

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 characteris-tics	Within 4 n.mi.	Between 4-12 n.mi.	Between 12 and 200 n.mi.
CTD	Yes	No	Yes	Yes	Yes	Yes
Rosette	Yes	No	Yes	yes	Yes	Yes
Underway systems	Yes	No	Yes	Yes	Yes	Yes
Ecco sounding	Yes	No	Yes	yes	yes	Yes
Water sampling	yes	No	Yes	Yes	yes	Yes
Towed Instrument	No	No	No	No	No	No
Trawling	No	No	No	No	No	No
Moored Instrument	No	No	No	No	No	No
Autonomous vehicle	No	No	No	No	No	No

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PART C. SCIENTIFIC EQUIPMENT

Complete the following table

Coastal state: Great Britain (EU)

H

using a separate page for
each coastal state

Port call: No

Dates: 1-20 July 2009

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 characteris-tics	Within 4 n.mi.	Between 4-12 n.mi.	Between 12 and 200 n.mi.
CTD	Yes	No	Yes	Yes	Yes	Yes
Rosette	Yes	No	Yes	yes	Yes	Yes
Underway systems	Yes	No	Yes	Yes	Yes	Yes
Ecco sounding	Yes	No	Yes	yes	yes	Yes
Water sampling	yes	No	Yes	Yes	yes	Yes
Towed Instrument	No	No	No	No	No	No
Trawling	No	No	No	No	No	No
Moored Instrument	No	No	No	No	No	No
Autonomous vehicle	No	No	No	No	No	No

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