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ICES søknadsskjema

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: G.O Sars CRUISE NO. 2015112

2. <u>DATES OF CRUISE</u> From: 19.07.2015 To: 15.08.2015

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

P.O.Box 1870 Nordnes N-5024 BERGEN, NORWAY

<u>TELEPHONE: +47 55238500</u> <u>TELEFAX: +47 55238531</u> <u>TELEX: 42297 OCEAN N</u>

4. <u>OWNER</u>

(if different from no. 3)

5. PARTICULARS OF SHIP: Name: **G.O. Sars**

Nationality: Norwegian

Overall length: 77.5 metres

Maximum draught: 5.8 metres

Net tonnage: 4067 brt

Propulsion: Diesel

Call sign: LMEL

Registration port and number (if registered fishing vessel)

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

Number of crew: 15

7. <u>SCIENTIFIC PERSONNEL</u> Name and address of

scientist in charge: Trond Martin Dokken Uni Research Climate

Allégaten 55

5007 Bergen, Norway

Tel/telex/fax no.: +47 55583216

No. of scientists: 15

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

The continental margin west of Iceland, from shelf area down to ca 2500 m water depth. See attached map.

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

Sampling of marine sediments for paleoclimate studies.

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- 10. DATES AND NAMES OF INTENDED PORTS OF CALL
- ANY SPECIAL REQUIREMENTS AT PORTS OF CALL 11.

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

NAME OF RESEARCH SHIP 1. G.O. Sars CRUISE NO. 2015112

2. DATES OF CRUISE From: 19.07.2015 To: 15.08.2015

3. a) PURPOSE OF RESEARCH

Sediment sampling for paleoclimatic studies. We will retrieve sediments from the continental margin, down to ca 2500 m. The operation of coring will be performed in the area shown in figure 1 (see end of document). The sediments samples will subsequently be analyzed in order to reconstruct the temperature and salinity of the water masses in the past.

Biological sampling (shelf areas) for paleoclimatic studies. We will try to recover live and fossil specimens of the molluse Arctica islandica from the shelf of Iceland, with the purpose of studying bivalve growth history in relationship to climate. Sampling will mostly be focussed on shallow shelf areas between 30-200 meter water depths.

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

Sediments will be collected using four different types of coring devices, calypso-corer, gravity-corer, multi-corer and box-corer. The main difference is the length of the tube lowered to the seafloor, spanning from 40 cm to 21

Multibeam echo sounder for bottom mapping before sediment coring will be performed, possibly also TOPAS bottom profiling and side-scan sonar. CTD measurements and water sampling will also be performed on selected localities.

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

Map is attached at the end of the document.

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

Marine sediments from the sea floor on the continental shelf. Live-collected and sub-fossil specimens of the bivalve species.

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).

Sampling will be performed by coring and dredging.

DETAILS OF MOORED EOUIPMENT 6.

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

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

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No hazardous materials will be used on board.

- a) Type and trade name
- 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

R/V Bjarni Sæmundson B997 (June/July 1997) R/V Marion Dufresne 114 IMAGES-V (June/July 1999)

- b) Any previously published research data relating to the proposed cruise
- NAME AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE 9. PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE
- 10.
 - 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

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

All site surveying data will be available in electronic format to the Danish authorities shortly after the cruise.



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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:

<u>Dates:</u> 19.07.2015-15.08.2015

Indicate "YES or "NO"

DISTANCE FROM COA	ST					
List scientific work by function	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
e.g.						
Magnetometry	no	no	no	no	no	no
Gravity	yes	no	no	yes	yes	yes
Diving	no	no	no	no	no	no
Seismics	no	no	no	yes	yes	yes
Seabed sampling: (Dredging)	yes	no	no	yes	yes	yes
Bathymetry	no	no	no	no	no	no
Trawling	no	no	no	no	no	no
Echo sounding	yes	no	no	yes	yes	yes
Water sampling	yes	no	no	yes	yes	yes
U/W TV	no	no	no	no	no	no
Moored instr.	no	no	no	no	no	no
Towed instr.	yes	no	no	yes	yes	yes

found R. Stramsac

(On behalf of the Principal Scientist)

Date 20.02.2015

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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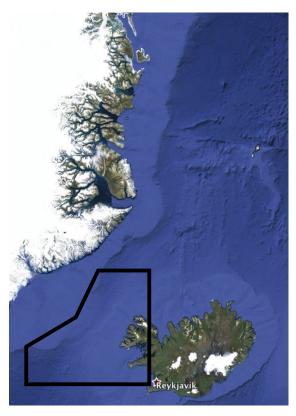


Figure 1. Map showing the shelf area of Iceland on which the coring and dredging will be performed. The operations will primarily be executed west and north-west of Iceland.