

1. NAME OF RESEARCH SHIP: "G.O.Sars" CRUISE NO. 2012102

2. DATES OF CRUISE From: 15 February 2012 To: 14 March 2012

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

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

Net tonnage: 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

7. SCIENTIFIC PERSONNEL

Name and adress of  
 scientist in charge: Irene Huse  
 Institute of Marine Research  
 P.O.box 1870 Nordnes  
 N-5024 BERGEN NORWAY

Tel/telex/fax no.: (47)55236822/(47)55235395

No. of scientists: 11 (10 from 29. February to 14. March)

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

55°N - 62° N  
 09°E - 02° W

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

IBTS, International Bottom Trawl Survey, coordinated by ICES. Estimate indexes for demersal species like cod, whiting, plaice etc. Including herring larvae sampling and hydrographical sections.

10. DATES AND NAMES OF INTENDED PORTS OF CALL

About the 20<sup>th</sup> of February at Leirwick – Shetland  
 About the 4<sup>th</sup> of March at Hanstholm - Denmark

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

No.

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

1. NAME OF RESEARCH SHIP: "G O Sars" CRUISE NO. 2012102
2. DATES OF CRUISE From 15 Feb.-2012 To 14 March.-2012
3. a) PURPOSE OF RESEARCH  
  
IBTS, International Bottom Trawl Survey, coordinated by ICES. Estimating indexes for demersal species like cod, whiting, plaice etc, including herring larvae sampling and hydrographical sections, and a new sampling scheme for herring larva process studies (feeding). A hydrographical transect will be taken from Utsira (Norw) to Startpoint (Startpoint) along 59.283 Deg N (including algae nets).  
  
b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)  
  
G.O.V.-trawl, MIK-net, WP2-net, phytoplankton-net, water bottles, CTD, MOCNESS, midwater trawl, fine mesh plankton nets and optical counters etc (MESSOR)
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.
5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide.  
  
Fish, plankton, water  
  
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  
  
Trawling with GOV-trawl. Samples of fish and stomachs as specified by the survey design.
6. DETAILS OF MOORED EQUIPMENT

<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)

- 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

The cruise has been undertaken since middle of the 1950's.

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

All data stored and reported to ICES within 3 months.

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

Kai Ulrich Wieland  
DTU Aqua National Institute of Aquatic Resources  
The North Sea Science Park  
PO Box 101  
9850 Hirtshals  
Denmark  
+45 33963276 kw@aqua.dtu.dk

Brian Harley Centre for Environment,  
Fisheries and Aquaculture Science (CEFAS)  
Lowestoft Laboratory  
Pakefield Road  
Lowestoft Suffolk NR33  
OHT  
UK  
P: +44 1502524254 brian.harley@cefass.co.uk

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

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

Report within 6 months.

#### PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Denmark

Port call: Yes

Dates: See point 10 in application.

Indicate "YES or "NO"

				Distance from coast		
<u>List scientific work by function</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 0-4 nm	Between 4-12 nm	Between 12-200 nm
Trawling	No	Yes	No	No	No	Yes
Echo sounding	No	Yes	No	No	No	Yes
Water sampling	No	No	No	No	Yes	Yes

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

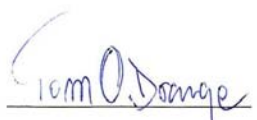
Coastal state: UK

Port call: Yes

Dates: See point 10 in application.

Indicate "YES or "NO"

				Distance from coast		
<u>List scientific work by function</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 0-4 nm	Between 4-12 nm	Between 12-200 nm
Trawling	No	Yes	No	No	No	Yes
Echo sounding	No	Yes	No	No	No	Yes
Water sampling	No	Yes	No	No	Yes	Yes



Operasjonsoffiser- Tom Ole Drange

(On behalf of Principal Scientist)



Dated 2012.01.03

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.

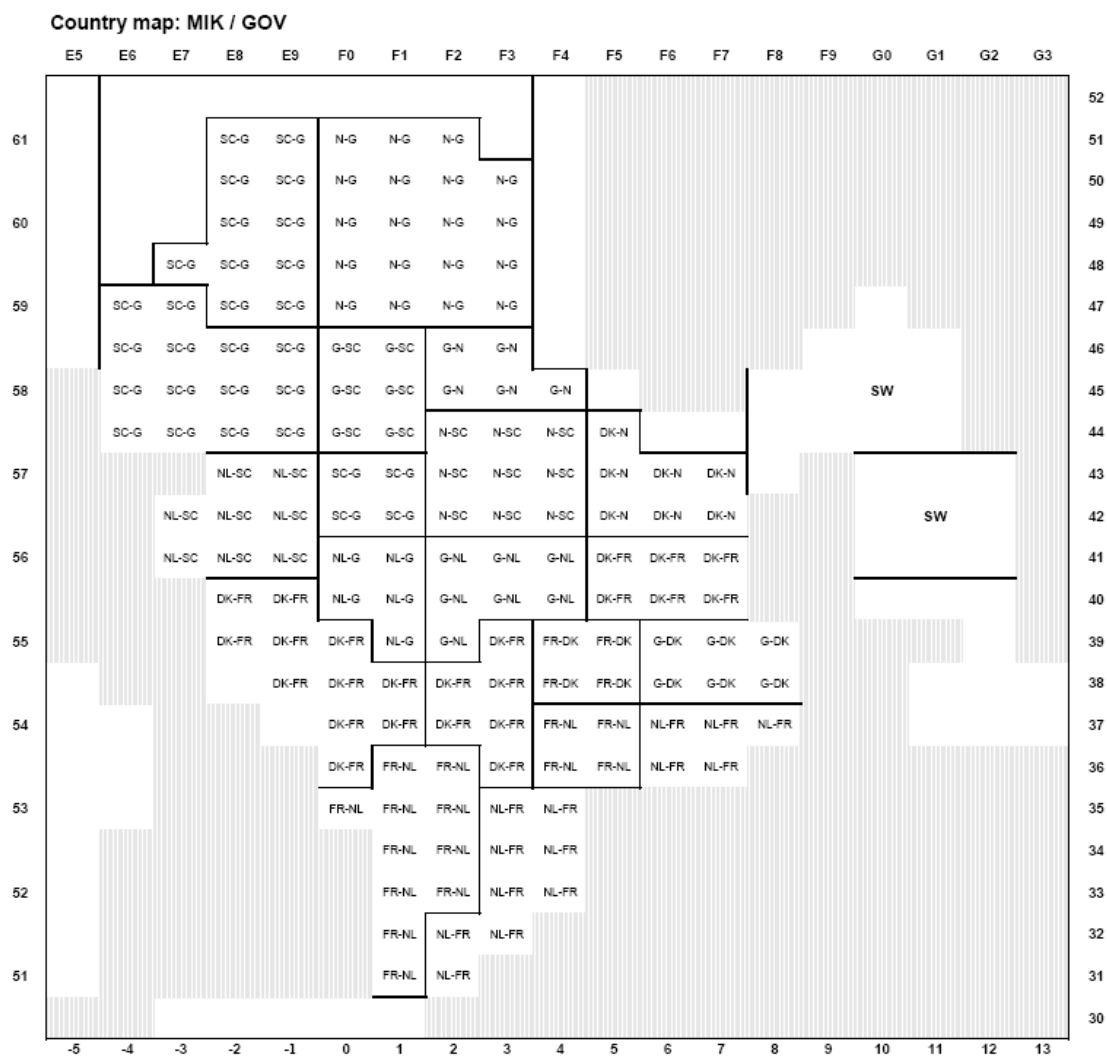


Figure 1. "G.O. Sars" will work rectangles marked with N-G, G-N, N-SC and DK-N. In addition the hydrographical sections Fedje-Shetland and Utsira-Start Point will be taken. In addition, 2 stations will be taken for egg and larva feeding process-studies. See Figure 2 and 3 for additional information.

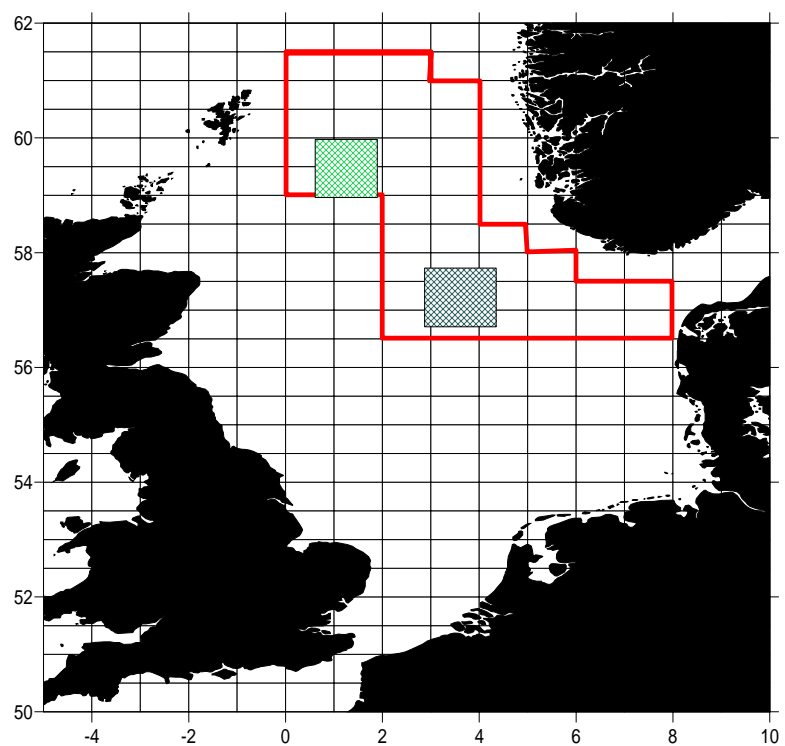


Figure 2. Process studies. Potential process study stations are indicated by the green cross-hatch areas. Both process study areas are within the standard MIK survey areas undertaken by IMR. The standard IBTS survey coverage is shown by the red outline.



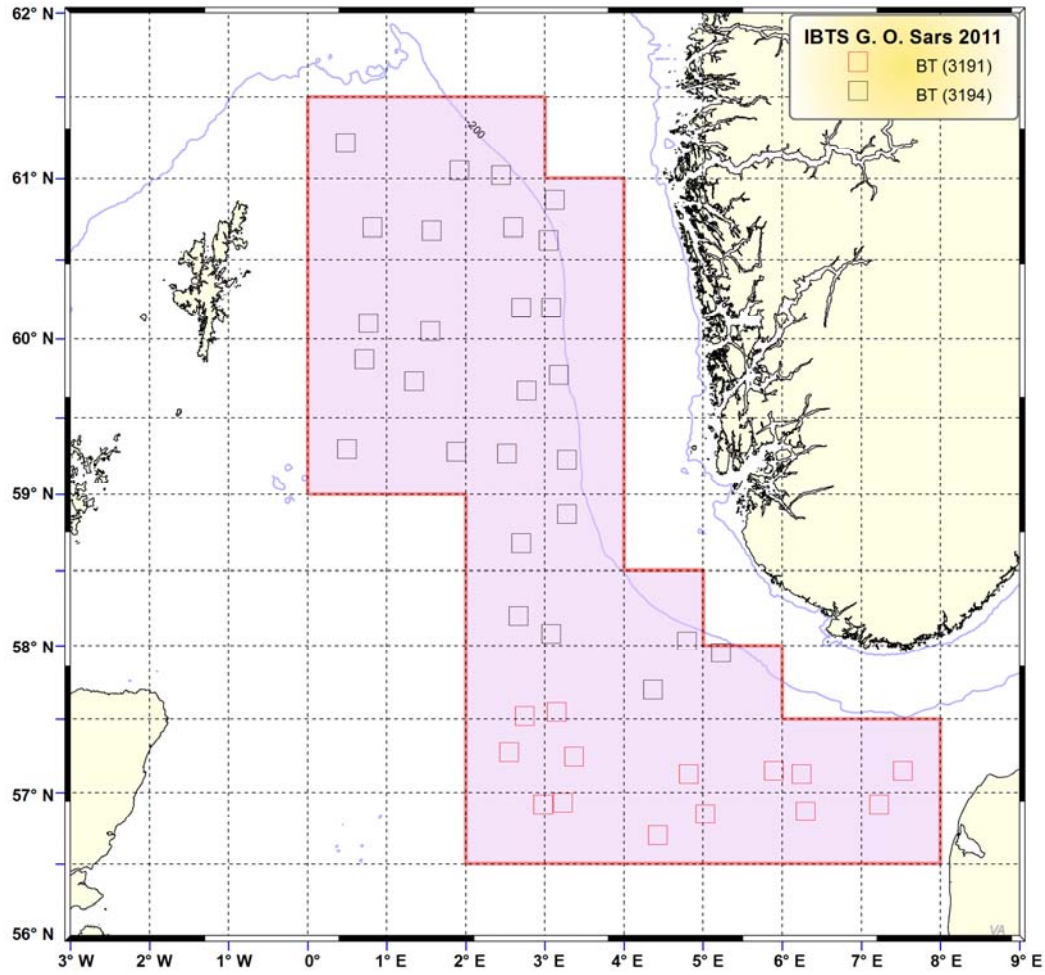


Figure 3. Map indicating the positions of the trawl hauls (GOV-trawl, one haul per ICES statistical square) taken by G.O. Sars in February 2011. Positions in 2012 will be similar (but not exact), and inside the same total (shaded) area.