ICES form - Notification of proposed research cruise

1. **NAME OF RESEARCH SHIP:** G.O. Sars **CRUISE NO.:**2024001009

2. **DATES OF CRUISE** **From:** 23.04.24 **To:** 21.05.24

3. **OPERATING AUTHORITY:** Institute of Marine Research
   TELEPHONE: +47 55 23 85 00
   TELEFAX:
   TELEX:

4. **OWNER**
   (if different from no. 3)

5. **PARTICULARS OF SHIP:**

Name: G.O. Sars
Nationality: Norway
Overall length: 77.5 m
Maximum draught: 7.3 m
Net tonnage: 4067 GT
Propulsion: DC Electric
Call sign: LMEL
Registration port and number (if registered fishing vessel):

6. **CREW**

Name of master: John Gerhard Aasen/Svein Roger Fredheim
Number of crew: 15

7. **SCIENTIFIC PERSONNEL**

Name and address of scientist in charge: Erling Kåre Stenevik, Institute of Marine Research, P.O.Box 1870 Nordnes, N-5024 Bergen Norway

Tel no.: +47 23 85 00

No. of scientists: 10

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

Area of operation is the Atlantic Ocean in the Norwegian Sea, including work inside the Icelandic EEZ, but outside 12 NM. Survey area covers: 62°N - 72° N, 12°W - 20°E

9. **BRIEF DESCRIPTION OF PURPOSE OF CRUISE**

Acoustic estimation of the herring and blue whiting stocks. Observations on hydrography and plankton. The cruise is part of the international survey in the Nordic Seas coordinated through the ICES Working Group on International Pelagic Surveys with participants from the Faroes, Iceland, EU (Denmark), UK, Norway.

10. **DATES AND NAMES OF INTENDED PORTS OF CALL**
None

11. **ANY SPECIAL REQUIREMENTS AT PORTS OF CALL**

1. Part B: Details

1. **NAME OF RESEARCH SHIP:** G.O. Sars **CRUISE NO.:** 2024001009

2. **DATES OF CRUISE** **From:** 23.04.24 **To:** 21.05.24

3.
PURPOSE OF RESEARCH:

The main purpose of the cruise is the assessment of the herring and blue whiting, i.e. stock size and distribution using acoustic methods combined with sampling with pelagic trawls. The cruise is part of an international coordinated survey with vessels from the Faroes, Iceland, EU (Denmark), UK, and Norway participating. Information on other species such as argentines, mackerel and red fish is collected upon encounter. The survey is coordinated by ICES Working Group of International Pelagic Surveys. Hydrographic investigations by use of CTD, and plankton investigations using different plankton nets

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

Acoustic observations of pelagic fish with echo sounder (EK80) and sonar (SU90). Pelagic trawling on registrations using a pelagic trawl. Collection of plankton using

macroplankton trawl, WPII (vertical hauls) and Multinet (oblique hauls). Measurements of temperature, salinity and oxygen with a Seabird CTD. Collection of water samples for nutrients and chlorophyll.

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

Attached at the end of the document

5.

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

Pelagic fish, plankton, sea water

b) METHODS OF OBTAINING SAMPLES (e.g., dredging/coring/drilling/fishing, etc. When using stocks being worked, quantity of each species required, and quantity of fish to be retained on board)

Fishing with pelagic trawl on acoustic registrations, of which approx. 100 individuals per haul of the target species are required. Plankton and hydrographic samples on pre-defined stations.

6. **DETAILS OF MOORED EQUIPMENT**

Dates

Laying Recovery Description Depth Latitude Longitude

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 dates 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

Conducted since 2000 and a similar cruise for spring 2025 is planned.

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

ICES. 2023. Working Group of International Pelagic Surveys (WGIPS). ICES Scientific Reports. 5:74. 122 pp. https://doi.org/10.17895/ices.pub.23607303

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

Iceland: Gudmundur J. Oskarsson
Marine and Freshwater Research Institute
Fornubúðum 5
220 Hafnarfjörður
Iceland

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 for embarkation and disembarkation

Acceptable. Dates and ports to be closer settled if wanted by the coastal state

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

End of June 2023, as cruise report (one report for the international survey). The results will be summarized in a post cruise meeting and reported to the ICES Working Group for International Pelagic surveys and the Working Group on Widely Distributed Stocks

2. Part C. Scientific Equipment

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

Coastal state: Iceland Port of call: Dates: 23.04.24-21.05.24

				Distance from coast		
List scientific work by function				Within	Between	Between
				4 nm	4-12 nm	12-200 nm
(example: Magnetometry	Water column including sediment sampling of seabed	Fisheries research within fishing limit	Research concerning the natural resources of the continental shelf or its physical characteristics)			
Trawling	0-600m	No	No	No	No	Yes
CTD with water sampling	0-1000m	No	No	No	No	Yes
Echo sounding	0-500m	No	No	No	No	Yes
Plankton sampling	0-200m	No	No	No	No	Yes

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(On behalf of the Principal Scientist)

Dated 27.10.23

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.

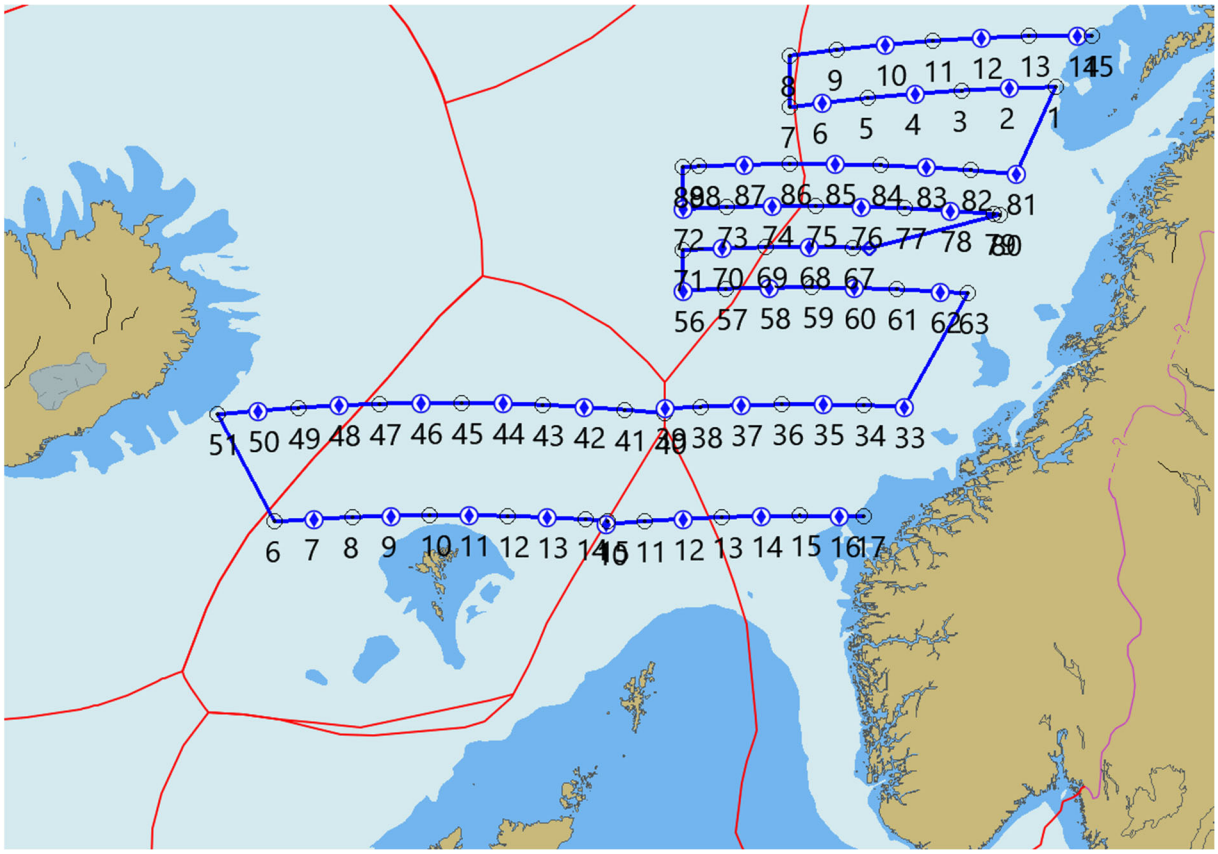

Figure of preliminary survey tracks for the Norwegian vessel in the 2024 International Ecosystem survey in the Nordic Seas (blue lines).