

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: Vendla      CRUISE NO. 2024-NOR-687
2. DATES OF CRUISE      From: 02. July 2024      To: 02. August 2024
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: M/V "Vendla"  
Nationality: Norwegian
- Overall length: 76.44 m
- Maximum draught: 9.30 m
- Net tonnage: NT = 896 (GT = 2987)
- Propulsion: MaK 8M32C Diesel Engine
- Call sign: LCYN
- Registration port and number: Torangsvåg, Norway IMO 9646091  
(if registered fishing vessel)
6. CREW      Name of master: Ole Morten Troland
- Number of crew: 8

7. SCIENTIFIC PERSONNEL Name and address Hector Pena (project leader)  
 scientist in charge: Maria Tenningen (cruise leader 2.-17. July)  
 Sindre Vatnehol (cruise leader 17 July. - 2. Aug.)
- Tel/telex/fax no.: As in # 3 above  
 (47) 99227025 (47) 55586867
- No. of scientists: 1 scientists, 4 technicians, 2 engineers
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
- Norwegian Sea and surrounding areas including: EEZ United Kingdom. Faroe Islands, Greenland
- 58°N - 78° N  
 24°E - 36° W
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
- Mackerel and Ecosystem cruise with oceanography, zooplankton sampling, biological sampling of mackerel, herring, salmon and blue whiting as well as marine mammal sightings. Abundance estimation of mackerel with Mulpelt 832 pelagic trawling and abundance estimation of Norwegian spring-spawning herring and blue whiting using acoustic recordings combined with trawl sampling.
10. DATES AND NAMES OF INTENDED PORTS OF CALL
- Bergen, Norway 02. July 2024  
 Tromsø, Norway 17. July 2024  
 Tromsø, Norway 02. August 2024
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
- No.

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PART B: DETAIL

1. NAME OF RESEARCH SHIP: VENDLA CRUISE NO. 2024-NOR-687
2. DATES OF CRUISE From: 02. July 2024 To: 02. August 2024
3. a) PURPOSE OF RESEARCH

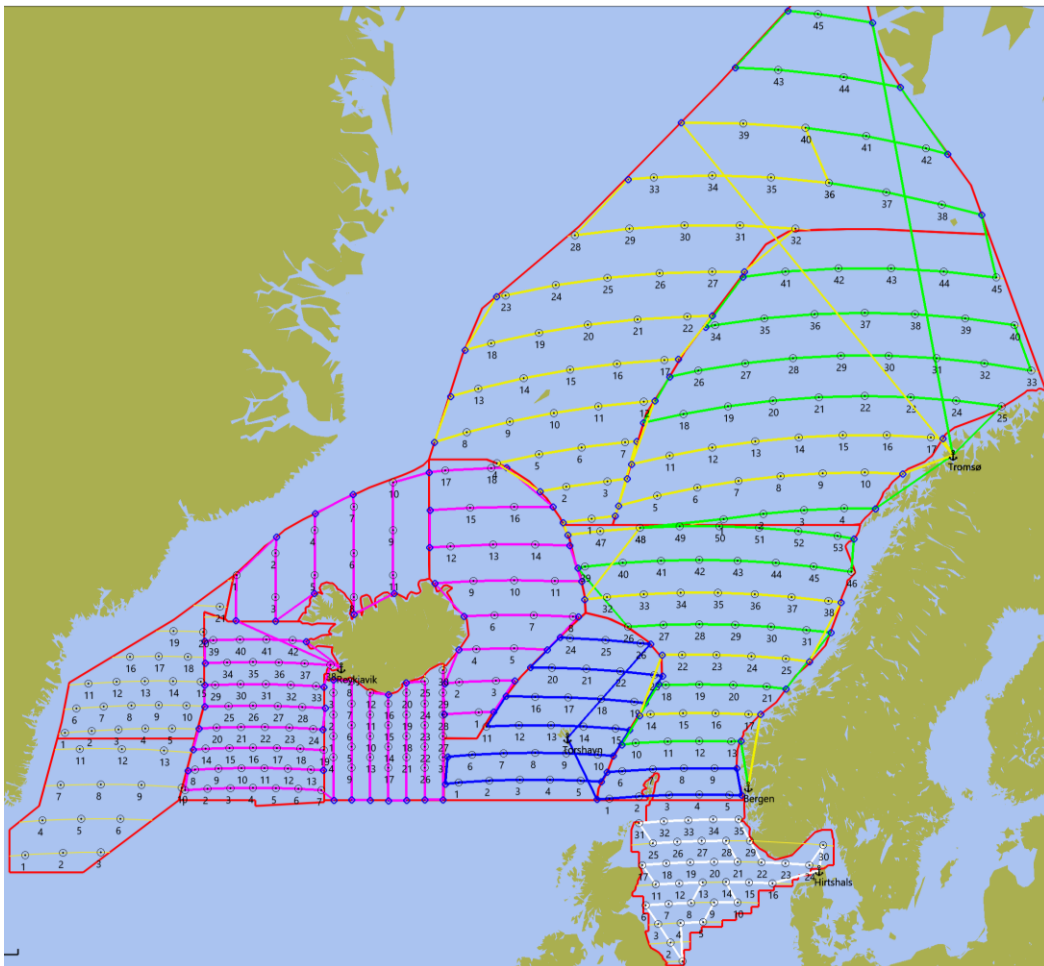
The major aim is abundance estimation of Northeast Atlantic (NEA) mackerel. Secondary aim is to perform acoustic abundance estimation of blue whiting and Norwegian spring-spawning herring. A major task is also to understand the Norwegian Sea ecosystem and especially the distribution, migration, feeding and spatial overlap of important pelagic planktivorous species (mackerel, herring and blue whiting) in relation to

hydrography, zooplankton and top predators.

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

During the cruise the following operations will be made:

1. Pelagic trawling 0-35 m with Multipelt 832 pelagic trawl for mackerel, blue whiting, herring and salmon. There will be about 70 trawl stations for each of the two chartered fishing vessels during the survey based on both predetermined stations and opportunistic trawling in deeper waters for blue whiting and herring based on acoustic registrations.
  2. Conductivity-Temperature-Depth (CTD) measurements using a SBE 911+ system on a water sampler (SBE32 Carousel) rosette equipped with 12 bottles and SAIV CTD measurements. In total 50-60 CTD casts are planned in the area.
  3. WP2 net casts for zooplankton sampling. Stipulated 70 zooplankton samples from 0-200 m for each vessel.
  4. Marine mammal sightings from the bridge during daylight hours.
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.



**Figure 1.** Preliminary surface stations (circles) and transects (different colored lines). Norway participate with 2 vessels, M/V Eros and M/V Vendla, IESSNS in July-August 2024.

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

At each CTD station, close to the bottom (10-15 m above the seabed) water sample will be taken to measure water salinity. This data set will be used to correct conductivity (hence inferred salinity) measured by the CTD system.

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

Fishing with pelagic trawl upon mackerel, herring, blue whiting and salmon, of which approx. 100 individuals/haul are required. Quantity of fish to be retained on board: up to 200 tonnes of mackerel, horse mackerel, herring, blue whiting and salmon due to catch needed for biological research. Other species: nil.

6. DETAILS OF MOORED EQUIPMENT

No moored equipment will be deployed during the present cruise.

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

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

Nøttestad et al. 2016 ICES. J. Mar Sci; Nøttestad et al. 2007; 2009; 2010; 2012-2022; Olafsdottir et al. 2018 (IESSNS survey reports). See also ICES WGWISE (2019; 2020; 2021) and ICES WGIPS (2020; 2021; 2022) reports for previous reports and publications.

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

ICES WGIPS and ICES WGWISE involved scientists from European countries.

10. STATE

a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable (Yes/No)

No port call will be made.

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

No arrangements were made for an observer.

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

Basic data available in Cruise report about one month after cruise.

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Iceland

Port call: NO

Dates: 2. July - 17. July 2024

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
Echo sounding	0-200m	No	No	No	No	Yes
Water sampling	0-500 m	No	No	No	No	Yes
Moored Instrument	n.a.	No	No	No	No	Yes

Date: 12.02.2024

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.