

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: "LIBAS" CRUISE NO. 2009818

2. DATES OF CRUISE From: 15 July 2009 To: 6 August 2009

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) Libas AS, Lie-gruppen AS, 5353 Straume, Norway

5. PARTICULARS OF SHIP: Name: "LIBAS"

Nationality: Norwegian

Overall length: 94 metres

Maximum draught: 6 metres

Net tonnage: 1313

Propulsion: Diesel, 8046 Hp

Call sign: LMQI

Registration port and number
(if registered fishing vessel) Bergen, H-5-F

6. CREW Name of master: Per William Lie

Number of crew: 9

7. SCIENTIFIC PERSONNEL
- | | |
|------------------------------------------|-------------------------------------------------------------------|
| Name and address of scientist in charge: | Leif Nøttestad (project leader)
Leif Nøttestad (cruise leader) |
| Tel/telex/fax no.: | As in # 3 above
(47)55586809 (47)55586867 |
| No. of scientists: | 5 scientists, 6 technicians 2 guests |
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
- Norwegian Sea and surrounding areas including: EEZ UK, EEZ Faroe Island, EEZ Iceland
- 60°N - 70° N
17°E- 12° W
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
- Ecosystem cruise with oceanography, zooplankton sampling, biological sampling of mackerel, herring, salmon and blue whiting as well as marine mammal sightings.
10. DATES AND NAMES OF INTENDED PORTS OF CALL
- Tromsø, Norway 15 July 2009
Bergen, Norway 6 August 2009
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
- No.

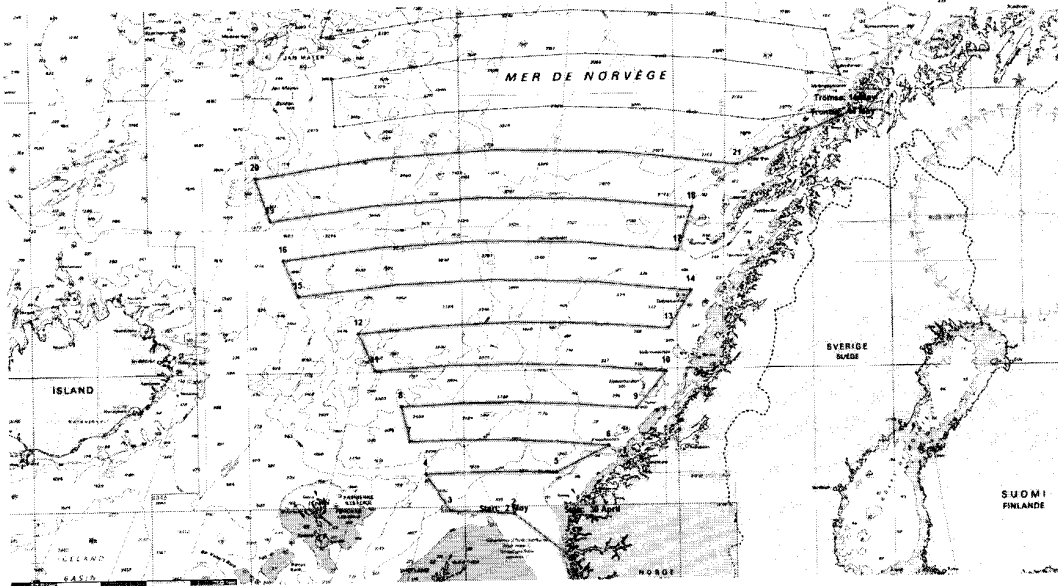
NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

1. NAME OF RESEARCH SHIP: "Libas" CRUISE NO. 2009818
2. DATES OF CRUISE From: 15 July 2009 To: 6 August 2009
3. a) PURPOSE OF RESEARCH
- Understand the Norwegian Sea ecosystem and especially the distribution, migration, feeding and spatial overlap of important pelagic planktivorous species in relation to hydrography, plankton and top predators.
- b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)
Egersund pelagic trawl, Salmon trawl, Krill trawl
- During the cruise the following operations will be made:
1. Pelagic trawling 0-60 m for mackerel, herring and salmon. Pelagic trawling 100-300 m depth for blue

whiting. There will be about 60 trawl stations during the survey based on both predetermined stations and opportunistic trawling 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. Krill trawling for krill and amphipods. Stipulated 10-15 krill trawl stations based on registrations
 4. WP2 net casts for zooplankton sampling. Stipulated 60 zooplankton samples from 0-200 m.
 5. 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.



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, 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.)

4

(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 August/September 2007, as cruise report one for the vessels chartered by the Institute of Marine Research separately). The results will also be summarized in the report of ICES Planning Group Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys, which will meet in August 2009.

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

PGNAPES 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: U.K, Denmark (the Faroes) and Iceland

Port call: NO

Dates: 15 July – 6 August 2009

Indicate "YES or "NO"

<u>List scientific work by function</u>				Distance from coast		
				Within 0-4 nm	Between 4-12 nm	Between 12-200 nm
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	0-400m	No	No	No	No	Yes
Water sampling	0-500 m	No	No	No	No	Yes
Moored Instrument	n.a.	No	No	No	No	Yes



Operation Officer - Terje Hindenes

(On behalf of the principal Scientist)



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH
Rederuskingtonen / Research Vessel Division
P.O. Box 15/01 Hordnes - N-5217 Høyanger - Norway

Dated 20.02.2009

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.

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: "LIBAS" CRUISE NO. 2009818

2. DATES OF CRUISE From: 15 July 2009 To: 6 August 2009

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) Libas AS, Lie-gruppen AS, 5353 Straume, Norway

5. PARTICULARS OF SHIP: Name: "LIBAS"

Nationality: Norwegian

Overall length: 94 metres

Maximum draught: 6 metres

Net tonnage: 1313

Propulsion: Diesel, 8046 Hp

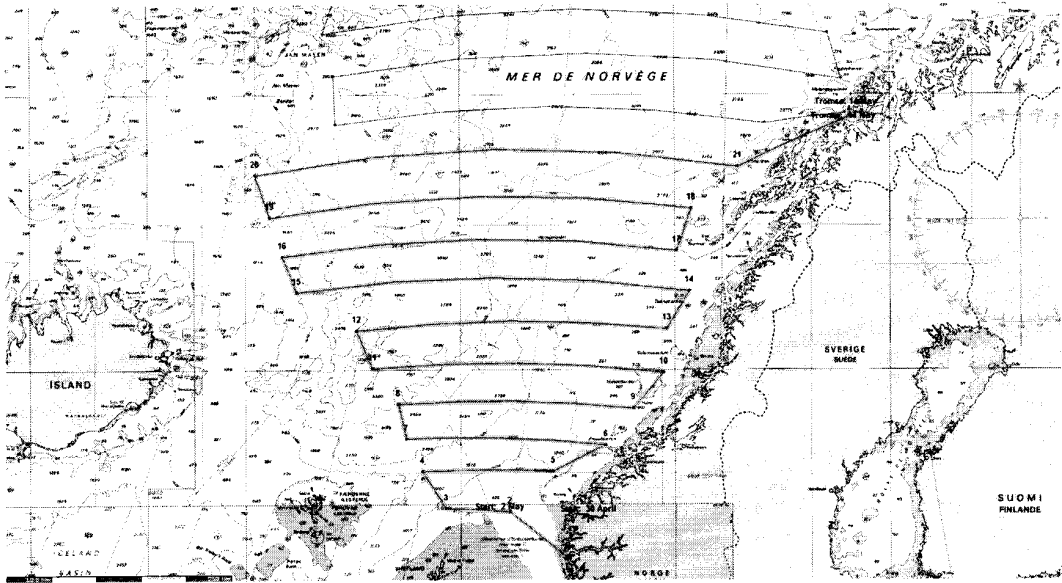
Call sign: LMQI

Registration port and number
(if registered fishing vessel) Bergen, H-5-F

6. CREW Name of master: Per William Lie

Number of crew: 9

- whiting. There will be about 60 trawl stations during the survey based on both predetermined stations and opportunistic trawling 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. Krill trawling for krill and amphipods. Stipulated 10-15 krill trawl stations based on registrations
 4. WP2 net casts for zooplankton sampling. Stipulated 60 zooplankton samples from 0-200 m.
 5. 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.



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, 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.

4

(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

August/September 2007, as cruise report one for the vessels chartered by the Institute of Marine Research separately). The results will also be summarized in the report of ICES Planning Group Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys, which will meet in August 2009.

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

PGNAPES 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: U.K, Denmark (the Faroes) and Iceland

Port call: NO

Dates: 15 July – 6 August 2009

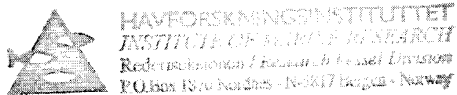
Indicate "YES or "NO"

List scientific work by function	Distance from coast					
				Within 0-4 nm	Between 4-12 nm	Between 12-200 nm
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			
Echo sounding	0-400m	No	No	No	No	Yes
Water sampling	0-500 m	No	No	No	No	Yes
Moored Instrument	n.a.	No	No	No	No	Yes



Operation Officer - Terje Hindenes

(On behalf of the principal Scientist)



Dated 20.02.2009

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.