

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP: "BRENNHOLM" CRUISE NO. 2010807

2. DATES OF CRUISE From: 15 July 2010 To: 6 August 2010

3. OPERATING AUTHORITY: Institute of Marine Research
P.O. Box 1870 Nordnes
N-5817 BERGEN, NORWAY

TELEPHONE: 47-55238500
TELEFAX : 47-55238531
TELEX: 42297 OCEAN N

4. OWNER
(if different from no. 3) Brennholm AS, v/Lars Einar Sandtorv, 5259 Hjellestad, Norway

5. PARTICULARS OF SHIP: Name: M/V "Brennholm"

Nationality: Norwegian

Overall length: 74.4 metres

Maximum draught: 9 metres

Net tonnage: 799

Propulsion: Diesel, 6786 Hp

Call sign: LIWG

Registration port and number
(if registered fishing vessel) Bergen, IMO 9268655

6. CREW Name of master:

Number of crew: 8

7. SCIENTIFIC PERSONNEL
- | | |
|--|--|
| Name and address of scientist in charge: | Leif Nøttestad (project leader)
Nils Øien (cruise leader) |
| Tel/telex/fax no.: | As in # 3 above
(47)55238611 (47)55236867 |
| No. of scientists: | 2 scientists, 8 whale observers and 3 technicians |

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

Norwegian Sea and surrounding areas including: EEZ Iceland and EEZ Greenland

63°N - 74° N
17°E - 20° 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

Bergen, Norway 15 July 2010
Bergen, Norway 6 August 2010

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

No.

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PART B: DETAIL

1. NAME OF RESEARCH SHIP: "Brennholm" CRUISE NO. 2010807

2. DATES OF CRUISE From: 15 July 2010 To: 6 August 2010

3. a) PURPOSE OF RESEARCH

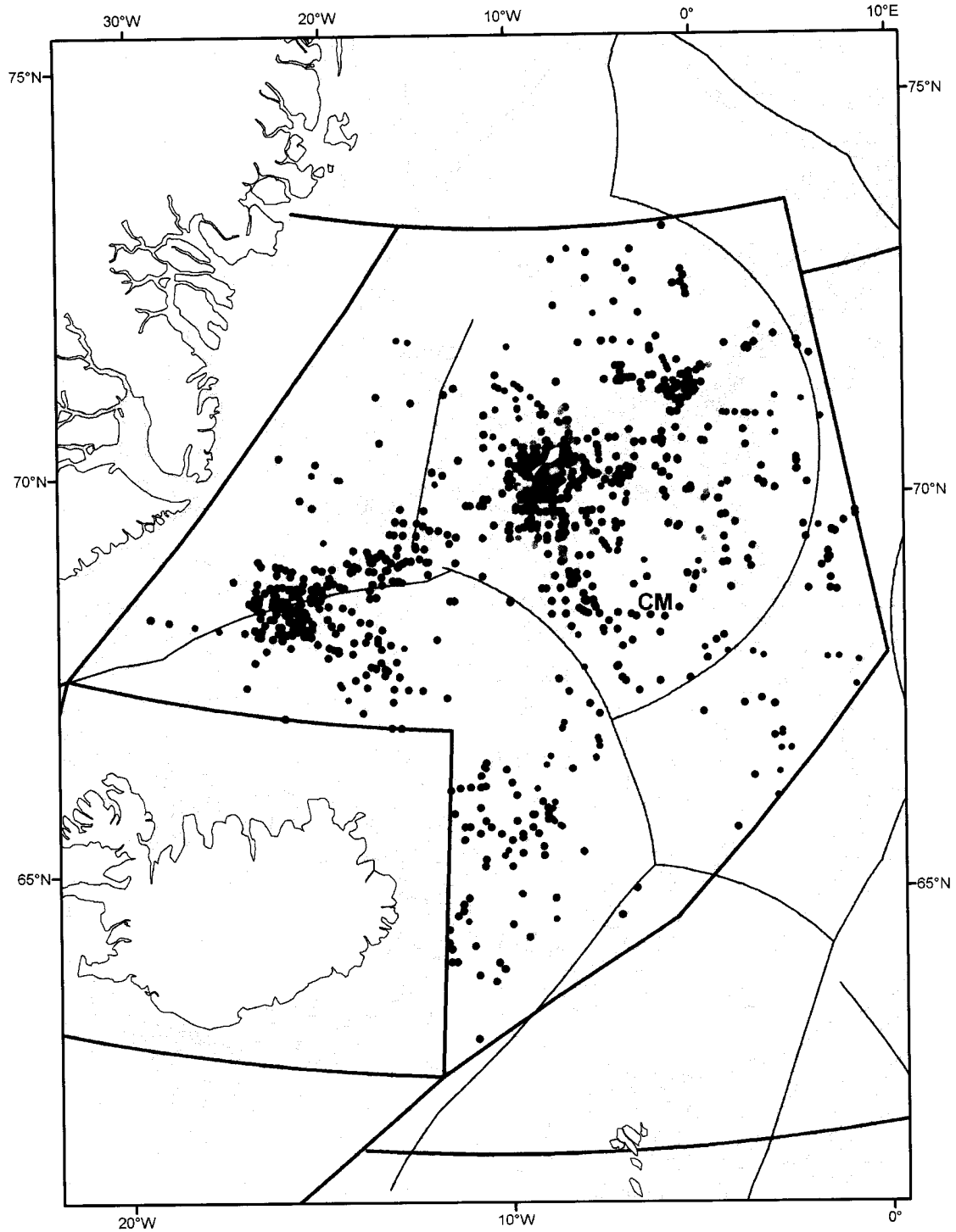
Understand the Norwegian Sea ecosystem and especially the distribution, migration, feeding and spatial overlap of important pelagic planktivorous species (mackerel, herring and blue whiting) in relation to hydrography, plankton and top predators. Collect data for abundance estimation of cetaceans, especially minke whales.

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

Egersund pelagic trawl, Salmon 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 with SAIV CTD measurements. In total 50-60 CTD casts are planned in the area.
 3. WP2 net casts for zooplankton sampling. Stipulated 60 zooplankton samples from 0-200 m.
 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.



The more detailed cruise track is not decided yet. The cruise will be within the area CM marked on the map. Blue and red dots show minke whale sightings in this particular area and should not be given any attention.

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>
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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

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. Progress on the cetacean work will be reported at the annual meeting of the IWC/SC.

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

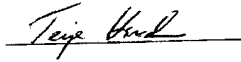
Coastal state: Greenland (Denmark) and Iceland

Port call: NO

Dates: 15 July – 6 August 2010

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)



Date:

25.05.2010

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.