



Net tonnage :

Propulsion:

Call sign: *LLNU*

Communication:

Phone (Satcom B): +47 56 33 11 17

Telex (Satcom B):

Fax (Satcom B): +47 51 40 76

Telex (Satcom C):

Phone (GSM)

*Phone Mobile*

Registration port and number

(if registered fishing vessel):

*Bergen*

6b. CREW

Name of master: Eivind Lokøy

Number of crew: 8

7. SCIENTIFIC PERSONNEL

Name and address of scientist in charge: Leif Nøttestad

*Institute of Marine Research*

*P.O. box 1870 Nordnes*

*N-5024 BERGEN NORWAY*

Tel/telex/fax no.: +4755 23 85 00/42297/(47)55 23 86 87

No. of scientists: *14 (10 on one vessel and 4 on the*

*other vessel)*

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

*62°N-72°N and 10W°-Norwegian coast.*

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

*Map and study the distribution and ecology of mackerel and herring using scientific sonars and echosounders, pelagic trawling, zooplankton sampling and CTD.*

10. DATES AND NAMES OF INTENDED PORTS OF CALL

*Verssel 1=Libas: Bergen 15.07.06 and Tromsø 06.08.06, Vessel 2=Endre Dyrøy: Bergen 15.07.06, Tromsø 06.08.06*

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

*None*

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAIL

1. NAME OF RESEARCH SHIP: *NN* CRUISE NO. *2006 833*

2. DATES OF CRUISE From *15.07.06* To: *06.08.06*

3. a) PURPOSE OF RESEARCH

*Map and study the distribution and ecology of mackerel using scientific sonars and echosounders, pelagic trawling, zooplankton sampling and CTD.*

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

*Pelagic mackerel trawl*

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.*

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:

*Pelagic trawl, North East Atlantic mackerel stock and Norwegian spring spawning herring, fish samples (<500 kg) will be retained onboard*

6. DETAILS OF MOORED EQUIPMENT *None*

| <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  
Norwegian surveys 2001

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

Working  
Holst, J.C., Bjelland, O., and Slotte, A. 2001. Distribution of mackerel in the Norwegian Sea 2001.  
Document for ICES working group MHSA 2001

Comparison of  
using  
Tenningen, E., Godø, O., R., Iversen, S., Slotte, A., Hjellvik, V., Torkelsen, T. 2003.  
Northeast Atlantic mackerel (*Scomber scombrus*) distribution patterns in the Norwegian Sea  
using lidar, sonar, and trawl. ICES CM 2003/V:04

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

*Dave Reid, Marine Laboratory, P.O. Box 101, AB11 9DB Aberdeen, Scotland*

*Hjalti Jacobstovi, Fiskirannsóknarstovan, P.O.Box 3051, Noatun, FO-110 Torshavn, Faroe Islands*

*Thorsteinn Sigurdsson, Marine Research Institute, Skulagata 4, 121 Reykjavik, 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 and the ports for embarkation and disembarkation

*For further details for embarkation and disembarkation, contact Leif Nøttestad*

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

*The data will be reported to ICES September 2004*

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: *UK, Faroe Islands, Iceland*

Port call: *Bergen, Tromsø*

Dates: 15.07, 06.08

Indicate "YES or "NO"

| List scientific work by function   | Distance from coast                                    |  |  |             |                 |                       |
|--|--|--|--|-------------|-----------------|-----------------------|
|  | 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 4 nm | Between 4-12 nm | Between 12 and 200 nm |
| e.g.<br>Magnetometry<br>Gravity<br>Diving<br>Seismics<br>Seabed sampling<br>Bathymetry<br>Trawling<br>Echo sounding<br>Water sampling<br>U/W TV<br>Moored instr.<br>Towed instr. |  |  |  |             |                 |                       |
| Trawling   |  |  |  |             |                 | Yes                   |
| Echo sounder and sonar   |  |  |  |             |                 | Yes                   |
| CTD and Secchi   |  |  |  |             |                 | Yes                   |
| Zooplankton  |  |  |  |             |                 | Yes                   |

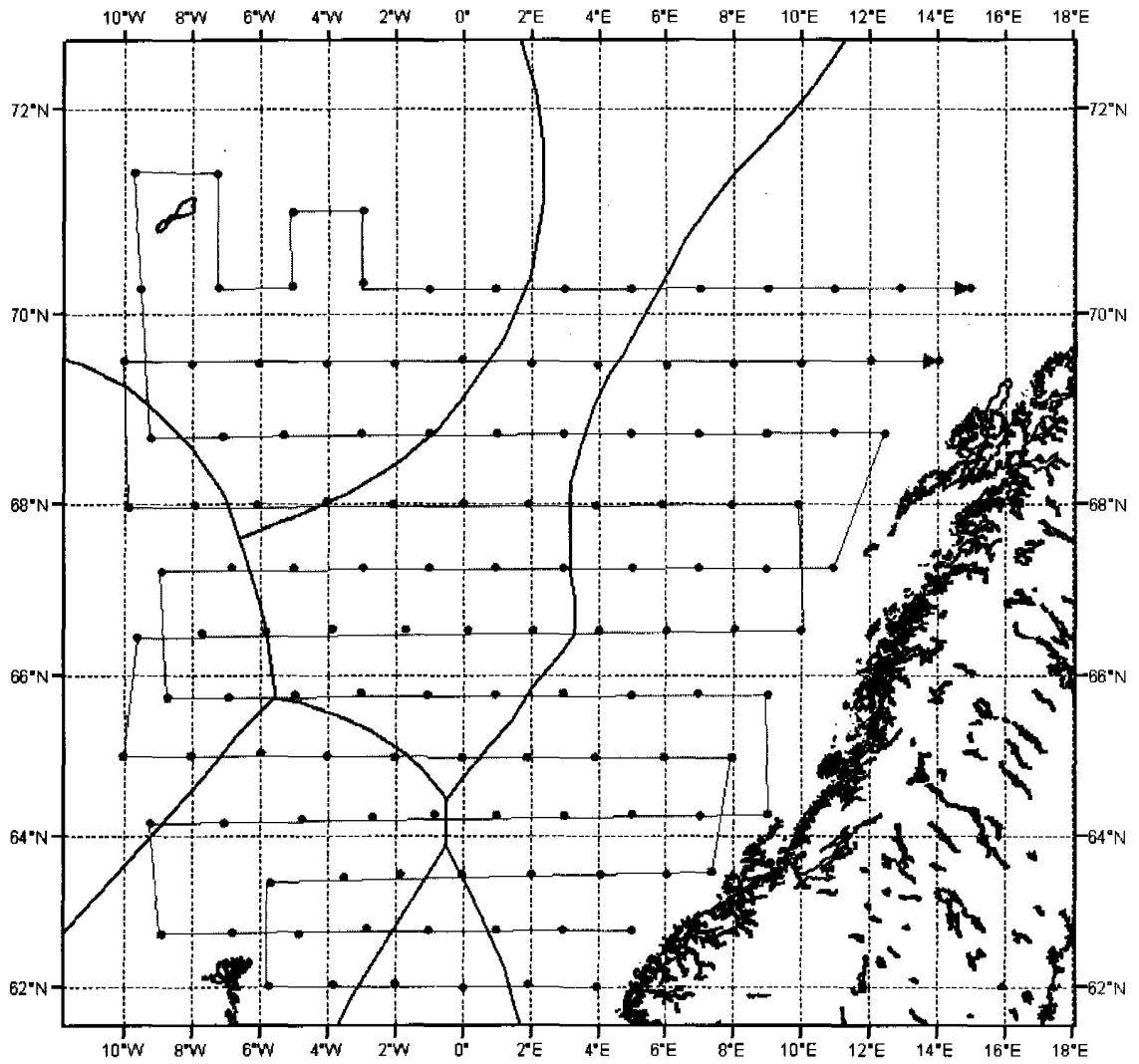
*Bente E. Aardal*  
(On behalf of the Principal Scientist)



HAVFORSKNINGSINSTITUTTET  
INSTITUTE OF MARINE RESEARCH  
Rederisiksjonen / Research Vessel Division  
P.O.Box 1870 Nordnes - N-5817 Bergen - Norway

Dated 8<sup>th</sup> March 2006

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.



**Fig 1.** Planned cruise-tracks and biological and physical stations for M/S "Endre Dyrøy" and M/S "Libas" 15 July- 6 August 2006.