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|----|--|---|--------------------------|------------------------------|
| 1. | <u>NAME OF RESEARCH SHIP:</u> | Johan Hjort" | <u>CRUISE NO.</u> | 2011210 |
| 2. | <u>DATES OF CRUISE</u> | From: | 28 th of June | To: 25 th of July |
| 3. | <u>OPERATING AUTHORITY:</u> | Institute of Marine Research P.O.Box 1870 Nordnes N-5024 BERGEN NORWAY | | |
| | <u>TELEPHONE:</u> | 47-55238500 | | |
| | <u>TELEFAX :</u> | 47-55238531 | | |
| | <u>TELEX:</u> | 42297 OCEAN N | | |
| 4. | <u>OWNER</u> (if different from no. 3) | | | |
| 5. | <u>PARTICULARS OF SHIP:</u> | Name: "JOHAN HJORT" Nationality: Norwegian Overall length: 64.5 metres Maximum draught: 6.4 metres Net tonnage: 548 Gross: 1828 Propulsion: Diesel Call sign: L D G J Vessels communication: Phone (Satcom): +47 55906400 Fax (Satcom): +47 55906401 Telex (Satcom C): +581(584) 425713910 Phone (GSM) 90528441 E-mail: johan.hjort@imr.no Registration port and number (if registered fishing vessel): Bergen | | |
| 6. | <u>CREW</u> | Name of master: John Gerhard Aasen / Tommy Steffesen Number of crew: 15 | | |

7. SCIENTIFIC PERSONNEL
- | | |
|--|--|
| Name and adress of scientist in charge: | Irene Huse Institute of Marine Research P.O.box 1870 Nordnes N-5024 BERGEN NORWAY |
| Tel/telex/fax no.: | (47)55236822/(47)55235395 |
| No. of scientists: | 15 |
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
- 55°N - 62° N
09°E - 02° W
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
- IBTS, International Bottom Trawl Survey, coordinated by ICES. Estimate indexes for demersal species like cod, whiting, plaice etc. Acoustic survey of herring and saithe. Species identification. Monitoring of chemical contaminants, including radionuclides, in sediments, seawater and marine organisms.
10. DATES AND NAMES OF INTENDED PORTS OF CALL
- About the 1st of July at Hanstholm - Denmark
About the 20th of July at Leirwick – Shetland
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
- No.

PART B: DETAIL

1. NAME OF RESEARCH SHIP: "Johan Hjort" CRUISE NO. 2011210
2. DATES OF CRUISE From 28th of June To: 25th of July 2011
3. a) PURPOSE OF RESEARCH

IBTS, International Bottom Trawl Survey, coordinated by ICES. Estimating indexes for demersal species like cod, whiting, plaice etc, including acoustic survey for herring and saithe. Investigate benthic invertebrates. Monitoring of chemical contaminants, including radionuclides, in sediments, seawater and marine organisms.

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

G.O.V.-trawl, MIK-net, WP2-net, phytoplankton-net, sediment grab, water bottles, CTD, MOCNESS, midwater trawl, fine mesh plankton nets and optical counters etc (MESSOR)
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 and other marine organisms, seawater, sediments..

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

Trawling by fishing trawls. Samples of fish and stomachs as specified by the survey design (see ICES CM 1999/D:2. Ref.: G). Plankton samples by plankton nets. Sediment samples by grab, box corer and multicorer, seawater samples by water bottles and hose on deck..
6. DETAILS OF MOORED EQUIPMENT

| <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
- The cruise has been undertaken since middle of the 1950's.
- b) Any previously published research data relating to the proposed cruise
- All data stored and reported to ICES within 3 months.
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
- Brian Harley, Cefas,
Lowestoft Laboratory
Pakefield Road
Lowestoft
Suffolk, NR33 0HT
UK P: +44 1502524254
F: +44 1502524254 brian.harley@cefas.co.uk
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
- Yes
- c) When research data from the intended cruise is likely to be made available to the coastal state and by what means
- Report within 6 months.

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state: Denmark and UK

Port call: Yes

Dates: See point 10 in application.

Indicate "YES or "NO"

| | | | | Distance from coast | | |
|---|--|--|--|---------------------|-----------------|-------------------|
| <u>List scientific work by function</u> e.g. Magnetometry Gravity Diving Seismics Seabed sampling Bathymetry 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 |
| Trawling | | Yes | No | No | No | Yes |
| Echo sounding | | Yes | No | No | No | Yes |
| Water sampling | Yes | | | No | Yes | Yes |
| Seabed sampling | Yes | Yes | Yes | No | Yes | Yes |

Dated 11.04.2011



Operasjonsoffiser- Tom Ole Drange

(On behalf of Principal Scientist)


NORSK INSTITUTT FOR
FISKE- OG VILDTUTNING
P.O. Box 115, NO-2007 Kjeller, Norway

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.

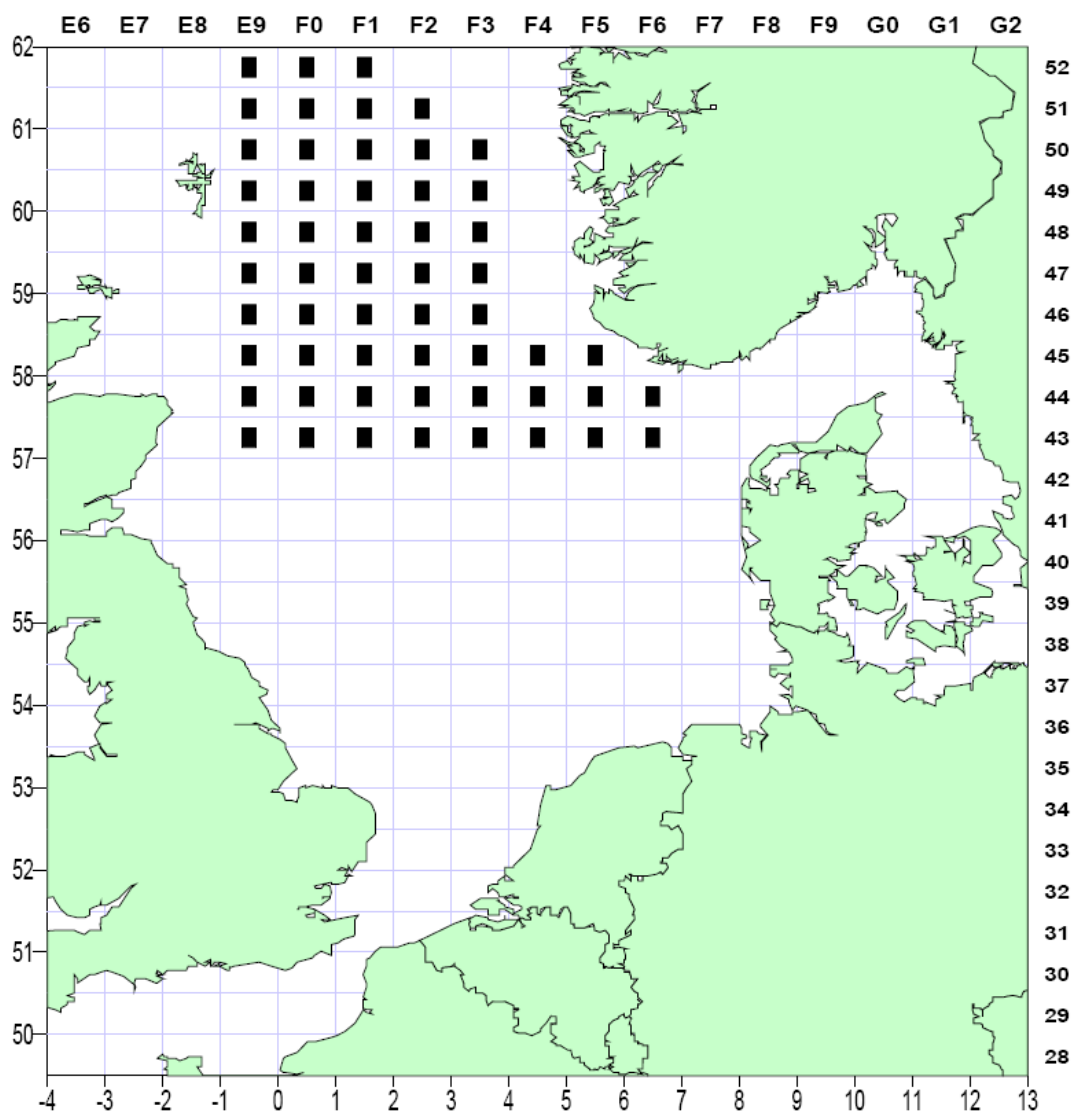


Figure 1. "Johan Hjort" will work rectangles marked during the bottom trawl survey.

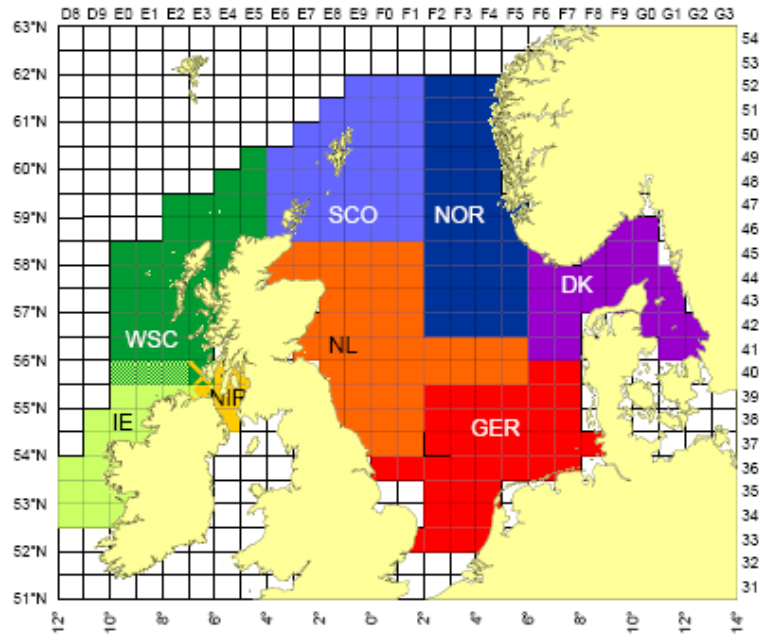


Figure 2. “Johan Hjort” will cover area marked dark blue, as “NOR” for the acoustical survey of herring and saithe.