

Application for Consent to conduct  
Marine Scientific Research

Date: \_07 March 2014\_\_

1. General Information

1.1 Cruise name and/or number: 2014610
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1.2 Sponsoring Institution(s):	
Name:	Institute of Marine Research
Address:	P.O.Box 1870 Nordnes N-5024 Bergen Norway
Name of Director:	Tore Nepstad

1.3 Scientist in charge of the Project:	
Name:	Tone Falkenhaus
Country:	Norway
Affiliation:	Institute of Marine Research
Address:	Flodevigen Research Station N-4817 His NORWAY
Telephone:	(47) 370 59020
Fax:	(47) 370 59001
Email:	tonef@imr.no
Website (for CV and photo):	NA

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	
Affiliation:	
Address:	
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:
<p>The aim of the cruise is to collect data and samples on pre-selected stations as part of the IMR monitoring project «Climate and plankton in the North Sea and Skagerrak», 11974. To sample standard transects for physical oceanographic parameters (CTD casts, nutrients and chlorophyll) and phyto- and zooplankton (including fish eggs and larvae) in the Northern North Sea. In addition, to undertake two studies (northwestern North Sea and Skagerrak) to investigate the spatial, vertical and diel distribution of fish eggs and larvae and their potential predators and prey.</p>

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

2.3 Relevant previous or future research projects:
The cruise has been undertaken since 2005

2.4 Previous publications relating to the project:

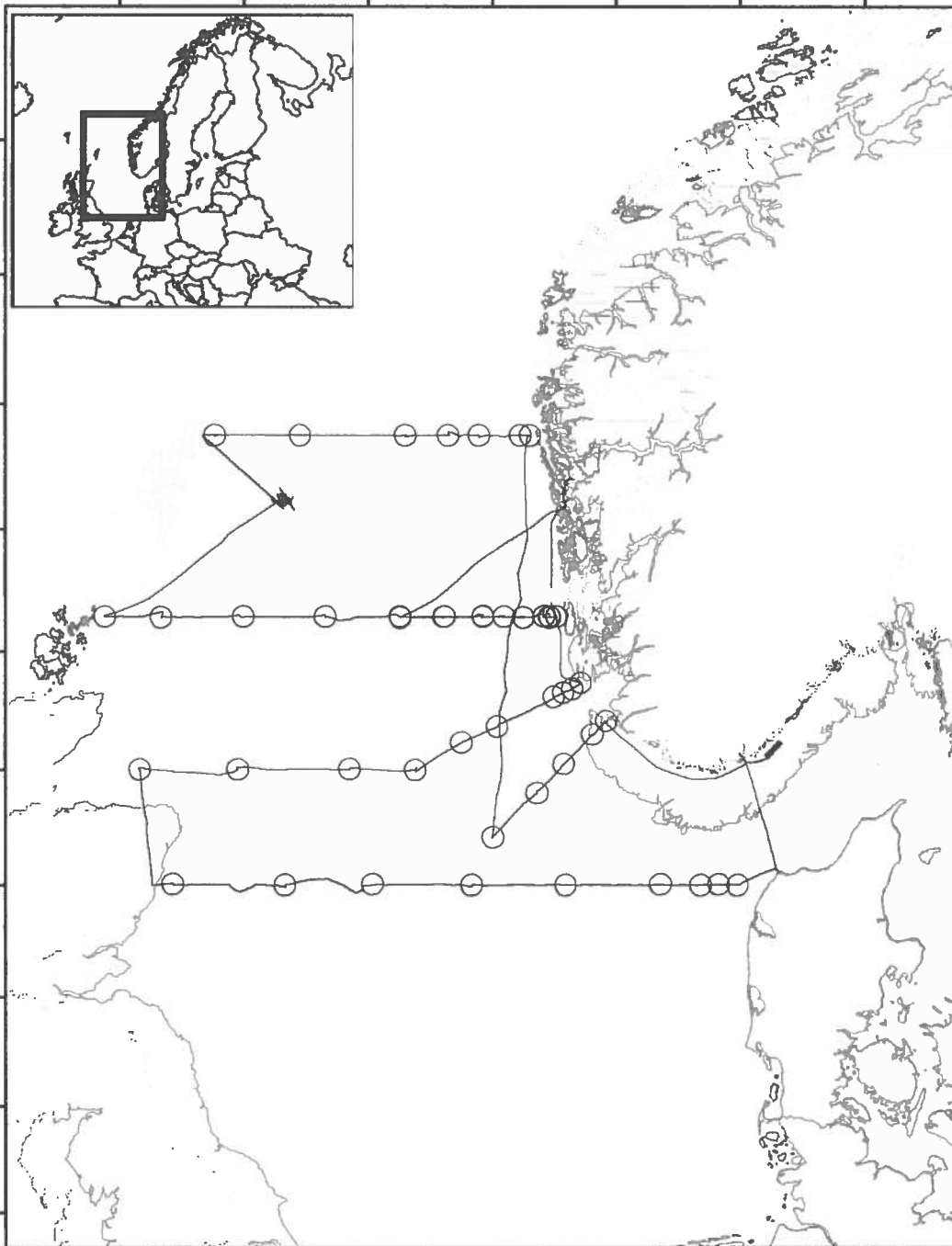
3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.

Survey area covers: 57°N - 61° N; 09°E - 02° W

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical

Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.



Survey area, RV "Håkon Mosby"

#### 4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	RV "Håkon Mosby"
Type/Class:	RV
Nationality (Flag State):	Norway
Identification Number (IMO/Lloyds No.):	7922233
Owner:	Institute of Marine Research
Operator:	Institute of Marine Research
Overall length (meters):	48 m
Maximum draught:	4.5 m
Displacement/Gross Tonnage:	499
Propulsion:	Diesel
Cruising & maximum speed:	10 knots and 13 knots
Call sign:	LJIT
INMARSAT number and method and capability of communication (including emergency frequencies):	Phone +47 5590 6420/23 (fax 21). GSM +47 97 70 14 13. Iridium: 00881631010521
Name of Master:	Jonny Karlsen/ Tom Ole Drange
Number of Crew:	9
Number of Scientists on board:	2

4.2 Particulars of Aircraft:	
Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication (including emergency frequencies):	
Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV):	
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication (including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:
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4.5 Particulars of methods and full description of scientific instruments to be used (for fishing gear specify type and dimension)

Types of samples and Measurements:	Methods to be used:	Instruments to be used:
Hydrography, nutrients, Chla	Vertical hauls	CTD with water bottles
Plankton	Vertical /oblique hauls	Plankton nets, Moccus
Fish larvae	Oblique hauls	Multinet, MIK trawl

4.6 Indicate nature and quantity of substances to be released into the marine environment:  
NONE

4.7 Indicate whether drilling will be carried out. If yes, please specify:  
NA

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name, Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of Detonation, and position in latitude and longitude:  
NA

## 5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):  
NA

## 6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:  
Sometime within the period 24.04-15.05 Timing and location of where the vessel will be is highly weather dependent and therefore impossible to predict.

6.2 Indicate if multiple entries are expected:  
Unknown. The survey depends on the weather. Ideally, the vessel would survey all of the nation's waters without re-entry.

## 7. Port Calls

7.1 Dates and Names of intended ports of call:  
Sometime within the period 24.04-15.05 ,Lerwick, Shetland

7.2 Any special logistical requirements at ports of call:  
NONE

7.3 Name/Address/Telephone of shipping agent (if available):  
NA

## 8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research Project:  
NA

8.2 Proposed dates and ports for embarkation/disembarkation:

NA

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include  
The expected dates of submission of the data and research results:

Report within 6 months, if required

9.2 Anticipated dates of submission to the coastal State of the final report:

Report within 6 months.

9.3 Proposed means for access by coastal State to data (including format) and samples:

NA

9.4 Proposed means to provide coastal State with assessment of data, samples and  
Research results:

NA

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples  
And research results:

NA

9.6 Proposed means of making results internationally available:

Data on hydrography and plankton stored and reported to ICES

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or  
Pending):

NA

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

NA

Signature:



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