

Application for Consent to conduct
Marine Scientific Research

Date: 9 May 2016

1. General Information

1.1 Cruise name and/or number:

Cetacean sighting survey Cruise no. 2016 820

1.2 Sponsoring Institution(s):

Name:	Institute of marine Research
Address:	P.O. Box 1870 Nordnes, N-5817 BERGEN
Name of Director:	Sissel Rogne

1.3 Scientist in charge of the Project:

Name:	Nils Øien
Country:	Norway
Affiliation:	Institute of Marine Research
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Website (for CV and photo):	http://www.imr.no/om_havforskningsinstituttet/ansatte/oe/nils_oien/nb-no

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:

Name:	n.a.
Affiliation:	
Address:	
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:

Sightings survey to estimate abundance of whales with particular emphasis on minke whales. The vessel will follow tracklines on which observations of whales will be recorded by dedicated observers.

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:

Sighting surveys to estimate abundance of minke whales in the northeast Atlantic 2014-2019. The region is covered by partial surveys in a mosaic pattern. Responsibility: Institute of Marine Research.

2.3 Relevant previous or future research projects:

Corresponding surveys have been conducted in 1995, over the periods 1996-2001, 2002-2007, 2008-2013, and last year 2015 (to be presented to this year's annual meeting of the IWC Scientific Committee).

2.4 Previous publications relating to the project:

Skaug, H.J., Øien, N., Schweder, T., Bøthun, G. 2004. Abundance of minke whales (*Balaenoptera acutorostrata*) in the Northeastern Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences*, 61:870-886.

Øien, N. 2009. Distribution and abundance of large whales in Norwegian and adjacent waters based on ship surveys 1995-2001. *NAMMCO Sci. Publ.* 7: 31-47.

Solvang, H.K., Skaug, H.J., Øien, N. 2015. Abundance estimates of common minke whales in the Northeast Atlantic based on survey data collected over the period 2008-2013. *Paper submitted to the IWC Scientific Committee 66a, San Diego, 22 May 2015.*

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.

62°00'N - 73°00'N; 10°00'W- 28°00'E. Track line waypoints in attached excel sheet and shown in attached map.

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.

A chart reflecting two coverages of the survey areas are attached. Survey lines are indicated as red and blue lines.

4. Methods and means to be used

4.1 Particulars of vessel:

Name:	MS Fisktrans
Type/Class:	Cargo, previously fishing vessel
Nationality (Flag State):	Norway
Identification Number (IMO/Lloyds No.):	5248255
Owner:	Novita Rederi AS
Operator:	Institute of marine Research
Overall length (meters):	57 m
Maximum draught:	6.0 m
Displacement/Gross Tonnage:	969 t
Propulsion:	Diesel engine
Cruising & maximum speed:	10 knots/13 knots
Call sign:	LIAB

INMARSAT number and method and capability of communication (including emergency frequencies):	Not available now, will be provided before start of survey
Name of Master:	Thomas Torrissen
Number of Crew:	6
Number of Scientists on board:	10

4.2 Particulars of Aircraft:	
Name:	n.a.
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:	n.a.
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:
n.a.

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:
<i>Vessel cruising on tracklines (transects) with dedicated observers looking for whales. Data</i>	<i>Visual observation.</i>	<i>None, no fish sampling involved.</i>

<i>collected are: Species, position, position relative to vessel, weather data and other covariates.</i>		

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:
None.

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:
None.

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):
n.a.

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:

First entry 5 July 2015, final departure 15 August 2015.

6.2 Indicate if multiple entries are expected:

Yes.

7. Port Calls

7.1 Dates and Names of intended ports of call:

None intended.

7.2 Any special logistical requirements at ports of call:

n.a.

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

n.a.

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:

n.a.

8.2 Proposed dates and ports for embarkation/disembarkation:

n.a.

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:

A cruise summary report (ICES Standard report) will be provided shortly after the end of the survey (which is 15 August 2016) and copied to coastal states.

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

See 9.6 which will be copied to coastal state.

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

To be supplied with 9.6.

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

This will be provided with the report 9.6.

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

n.a.

9.6 Proposed means of making results internationally available:

A report will be available early in winter 2017 and the report will be presented to the 2016 Annual Meeting of the International Whaling Commission's Scientific

Committee for discussion.

10. Other permits Submitted

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

None.

11. List of Supporting Documentation

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

Excel sheet with waypoints for transect lines. Map is included at the end of this application.

Signature: *Nils Øien*

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