Application for Consent to conduct
Marine Scientific Research

Date: _____12. August 2015____

1. General Information

| 1.1 Cruise name and/or number: 2015118 |
|---|
| |
| |
| |

| 1.2 Sponsoring Institution(s): | |
|---|---|
| Name: | Department of Biology, University of Bergen |
| Address: | Thormøhlensgt. 53B, N-5020 Bergen |
| Name of Director: | Anders Goksøyr |

| 1.3 Scientist in charge of the Project: | |
|---|---|
| Name: | Arne Johannessen |
| Country: | Norway |
| Affiliation: | Dr. |
| Address: | Department of Biology, University of Bergen,<br>Thormøhlensgt. 53B,<br>N-5020 Bergen, Norway |
| Telephone: | +47 55584400 |
| Fax: | +47 55584450 |
| Email: | Arne.johannessen@uib.no |
| Website (for CV and photo): | http://folk.uib.no/nfiaj/ |

| 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: |
|---|
| Education and Training of marine fisheries scientists and students<br>(cruise integrated in a subject (BIO 240 - Fisheries ecology) provided by the University of Bergen). |

| |
|---|
| |

| 2.3 Relevant previous or future research projects: |
|---|
| None |

| 2.4 Previous publications relating to the project: |
|---|
| Student cruise reports |

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. |
|---|
| The cruise study area is the northern North Sea, limited by 58 - 62˚N and 02˚W - 09˚E<br>(See also Figure 1).<br>Positions of trawling stations will be selected according to fish distribution. |

| 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. |
|---|
| See attached Figure 1 with planned cruise period |

4. Methods and means to be used

| 4.1 Particulars of vessel: | |
|---|---|
| Name: | G. O. Sars |
| Type/Class: | Research vessel |
| Nationality (Flag State): | Norwegian |
| Identification Number (IMO/Lloyds No.): | 9260316 |
| Owner: | Institute of marine research/University of Bergen |
| Operator: | Institute of marine research, P.O.Box 1870 Nordnes, N-5024 Bergen |
| Overall length (meters): | 77,5 |
| Maximum draught: | 7,30 |
| Displacement/Gross Tonnage: | 4067 |
| Propulsion: | DC-Electric |
| Cruising & maximum speed: | 10-11 knots, 17 knots |
| Call sign: | LMEL |
| INMARSAT number and method and capability of communication (including emergency frequencies): | Telephone: +47 55906440<br>Telefax: +47 55906441<br>e-mail: GOSars@imr.no |
| Name of Master: | John Hugo Johansen/Preben Vindenes |
| Number of Crew: | 15 |
| Number of Scientists on board: | Max. 20 |

| 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: |
|---|
| |

| 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: |
| Water characteristics | Underwater unit with sensor for conductivity, temperature, pressure and oxygen | 911*plus* CTD system |
| Fish trawling | "Harstad" pelagic trawl (1600 meshesx100mm)<br>Campelen 1800 bottom trawl(1800 meshes x 60mm)<br>MIK juvenile trawl (2 m opening diameter) | Scanmar equipment |
| Echo surveying | Echo sounders (multibeam, keel mounted) | SIMRAD echosounders |

| 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: |
|---|
| No |

| 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: |
|---|
| No |

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): |
|---|
| |

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: |
|---|
| Dates for first entry and final departure planned at 24. November 2015 and 30. November 2015, respectively. |
| 6.2 Indicate if multiple entries are expected: |
| Multiple entries within the period 24.-30. November 2015 may be expected. |

7. Port Calls

| 7.1 Dates and Names of intended ports of call: |
|---|
| 27. November 2015 at Lerwick port |

| 7.2 Any special logistical requirements at ports of call: |
|---|
| No |

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

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: |
|---|
| No plans |

| 8.2 Proposed dates and ports for embarkation/disembarkation: |
|---|
| |

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: |
|---|
| Preliminary student report expected at 1. February 2016 |

| 9.2 Anticipated dates of submission to the coastal State of the final report: |
|---|
| Final report expected within 3 months after end of cruise |

| 9.3 Proposed means for access by coastal State to data (including format) and samples: |
|---|
| Access to data and samples through Institute of marine research database. |

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

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

| 9.6 Proposed means of making results internationally available: |
|---|
| Available to the international scientific community through Institute of marine research |

10. Other permits Submitted

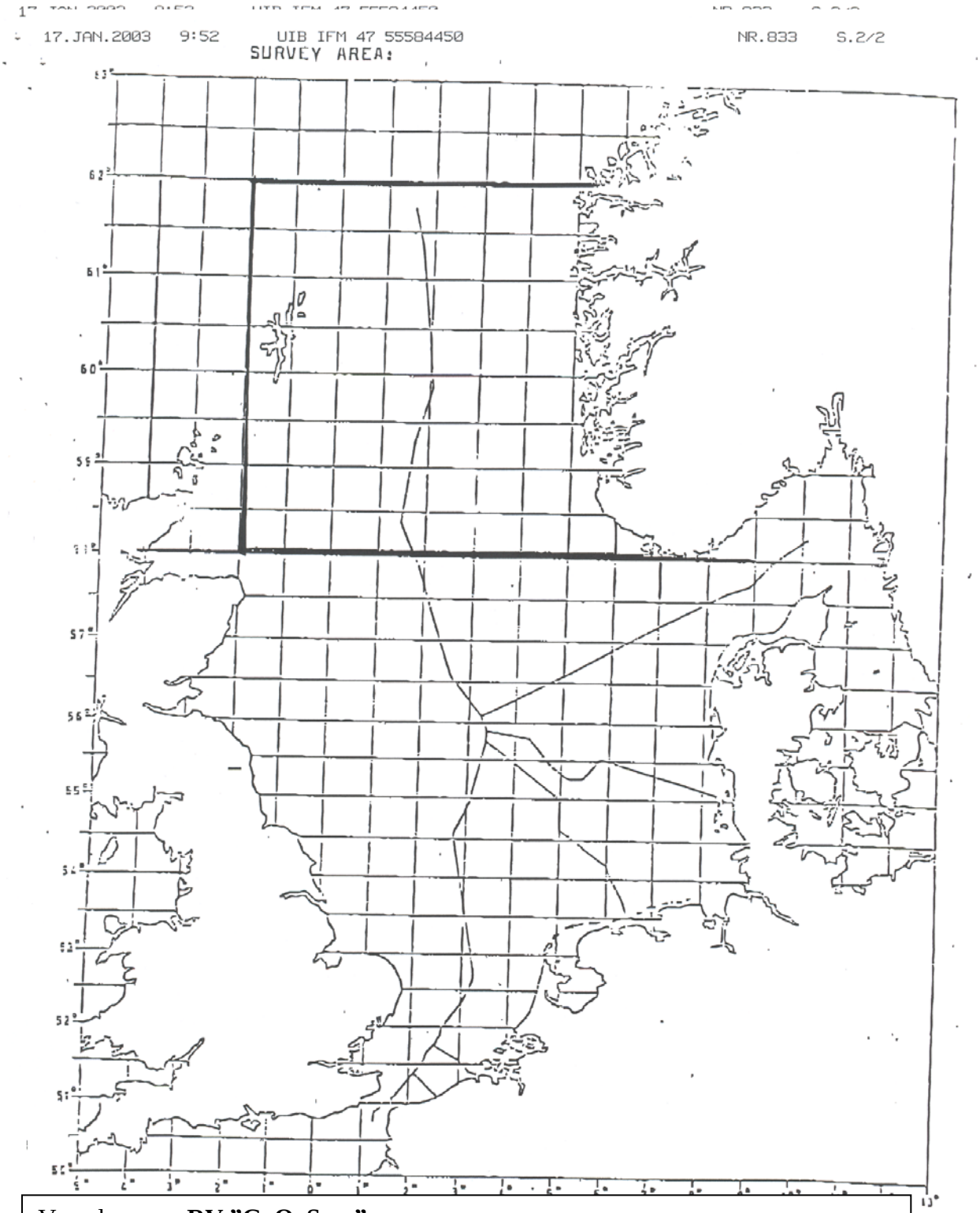
| 10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending): |
|---|
| NA |

11. List of Supporting Documentation

| 11.1 List of attachments, such as additional forms required by the coastal State, etc.: |
|---|
| Figure 1 – Planned study area |

Signature:

Contact information of the focal point:
Name: Arne Johannessen
Country: Norway
Affiliation: Dr.
Address: Dept. Biology, Univ. Bergen
Telephone: +47 55584460
Fax: +47 55584450
Email: arne.johannessen@bio.uib.no




Vessel: **RV "G. O. Sars"**

Cruise no. **2015118** Dates: **20. November – 30. November 2015**