		Havforskningsinstituttet			Ref.id.: KS&SMS.5.4-03
Application for Consent to conduct Marine Scientific Research					Standard
Versjon: 1.01	Opprettet: 11.12.2013	Skrevet av: BTC	Godkjent av: KRR	Gjelder fra: 11.12.2013	Sidenr: 1 av 6

Application for Consent to conduct
Marine Scientific Research

Date: January 06, 2020

1. General Information

1.1 Cruise name and/or number: Tagging and biological sampling of mackerel west of Scotland and Ireland, cruise number 2020816.

1.2 Sponsoring Institution(s):

Name: Institute of Marine Research
Address: P.O.B. 1870 Nordnes, N-5817
Bergen, Norway
Name of Director: Sissel Rogne

1.3 Scientist in charge of the Project:

Name: Aril Slotte
Country: Norway
Affiliation: Head of Pelagic Division, Institute of
Marine Research, Bergen
Address: P.O.B. 1870 Nordnes, N-5817 Bergen
Telephone: +4755238500
Fax:
Email: aril.slotte@hi.no
Website (for CV and photo): www.imr.no

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

Name: FRS Marine Laboratory
Affiliation:
Address: 375 Victoria Road, AB 11 9 DB,
Aberdeen, Scotland
Telephone:
Fax:
Email:
Website (for CV and photo):

2. Description of Project

2.1 Nature and objectives of the project:

Tagging and biological sampling of mackerel as part of studies on the European mackerel stocks.

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:

RFID-tagging project. This project is a cooperation between Scotland, Ireland, Denmark, Iceland, Faroe Islands and Norway. The project is coordinated by Institute of Marine



Application for Consent to conduct Marine Scientific Research

Research, Bergen, Norway.

2.3 Relevant previous or future research projects:

The tagging and sampling program 1968-2010 and the RFID-tagging project which started in 2011 and will continue.

2.4 Previous publications relating to the project:

Cruise reports and a paper by Maria Tenningen, Aril Slotte and Dankert Skagen, 2011. Abundance estimation of Northeast Atlantic mackerel based on tag recapture data – a useful tool for stock assessment? Fisheries Research. 107: 68-73.

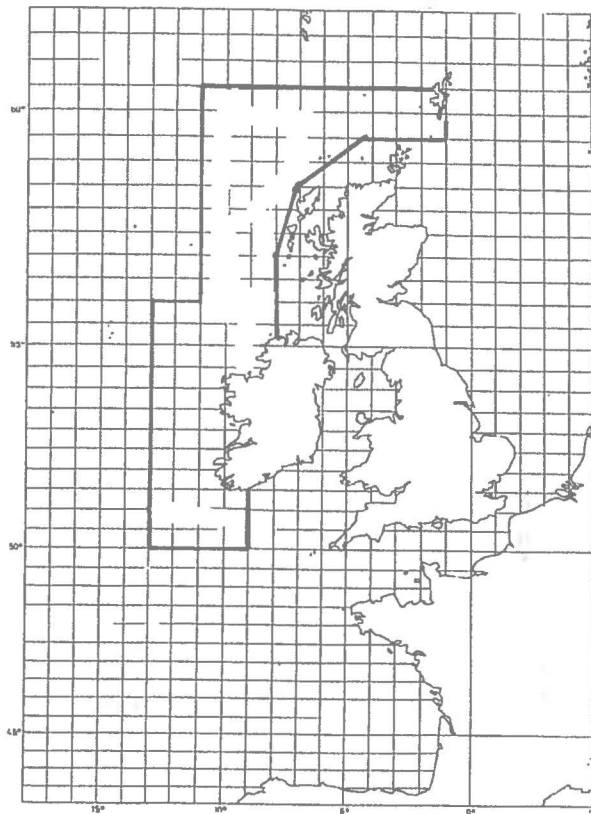
3. Geographical Areas

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.

W of Ireland, from ca 50°N to 56°N, from 9°W to 13°W, mainly ca 15 n. miles or more off the coast.

W of Scotland, from ca 56°N to 61°N, from 1°W to 11°W, mainly along the slope (150 m to 400 m depth).

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.



Mackerel tagging west of Ireland and Scotland in May/June 2020: Approximate limits of operation. Most of the work will be carried out along the edge of the continental shelf.

**Application for Consent to conduct Marine Scientific Research**

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	"Fiskebas"
Type/Class:	Fishing vessel
Nationality (Flag State):	Norway
Identification Number (IMO/Lloyds No.):	IMO No. 9646998
Owner:	Fiskebas AS
Operator:	Institute of Marine Research, Address: P.O.B. 1870 Nordnes, N-5817 Bergen, Norway
Overall length (meters):	64,2 meters
Maximum draught:	7,20 meters
Displacement/Gross Tonnage:	1899
Propulsion:	Diesel 3000 kW
Cruising & maximum speed:	Cruising 11 knots, maximum 16 knots
Call sign:	LDFS
INMARSAT number and method and capability of communication (including emergency frequencies):	INMARSAT number: 00881622432448 Communication certificate for area A3
Name of Master:	Geir Magne Madsen
Number of Crew:	8
Number of Scientists on board:	5

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:	

**Application for Consent to conduct Marine Scientific Research**

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:
Tagging and releasing ca 30000-50000 mackerel. Biological sampling of ca 1000 mackerel.	Fishing mackerel with 4 jigging machines each with 10 hooks.	Echosounder.

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): None

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 May 5, 2020, final departure June 4, 2020.

6.2 Indicate if multiple entries are expected:

7. Port Calls

7.1 Dates and Names of intended ports of call:

Galway, Ireland May 19, 2020



Application for Consent to conduct Marine Scientific Research

7.2 Any special logistical requirements at ports of call:

Normal supplies only (water, food, oil).

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

Mr. Tom McElwain, City of Galway Shipping Co Ltd, New Docks, Galway, teleph. 91562987

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:

Participation possible.

8.2 Proposed dates and ports for embarkation/disembarkation:

Embarkation: Bergen, Norway May 4, 2020 or Galway, Ireland May 21, 2020.

Disembarkation: Galway, Ireland May 19, 2020 or Bergen, Norway June 5, 2020.

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:

Basic data available in Cruise report about one month after cruise.

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

About one month after cruise.

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

Data/results delivered on yearly basis to ICES WGWIDE Assessment Working Group.

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

Data/results delivered on yearly basis to ICES WGWIDE Assessment Working Group.

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

Data/results delivered on yearly basis to ICES WGWIDE Assessment Working Group.

9.6 Proposed means of making results internationally available:

Data/results delivered on yearly basis to ICES WGWIDE Assessment Working Group.

10. Other permits Submitted

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

11. List of Supporting Documentation

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



Application for Consent to conduct Marine Scientific Research

Signature:

Contact information of the focal point:

Name: Jostein Røttingen

Country: Norway

Affiliation: Cruise leader

Address: IMR, P.O.B. 1870 Nordnes, 5817 Bergen

Telephone: +47 55238500/ +47 45251951

Email: jostein.roettingen@hi.no