

 <b>Havforskningsinstituttet</b>				Ref.id.: KS&SMS.5.4-03	
<b>Mal søknad Britiske Myndigheter - Application for Consent to conduct Marine Scientific Research</b>				Standard	
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Application for Consent to conduct  
Marine Scientific Research

Date: 16. March 2020

1. General Information

1.1 Cruise name and/or number:

International Ecosystem Summer Survey in the Nordic Seas (IESSNS) / Cruise number 2020 814. The application includes two chartered fishing vessels from Norway for scientific surveys to be conducted during the annual international mackerel-ecosystem survey in summer

1.2 Sponsoring Institution(s):

Name:	Institute of Marine Research (IMR)
Address:	Nordnesgaten 50, NO-5817 Bergen, Norway
Name of Director:	Sissel Rogne

1.3 Scientist in charge of the Project:

Name:	Leif Nøttestad
Country:	Norway
Affiliation:	Principal Scientist at IMR and Adjunct Professor at University of Bergen
Address:	Nordnesgaten 33, NO-5817 Bergen
Telephone:	+47 99 22 70 25
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Email:	<a href="mailto:leif.nottestad@hi.no">leif.nottestad@hi.no</a>
Website (for CV and photo):	<a href="https://www.researchgate.net/profile/Leif_Nottestad/contributions">https://www.researchgate.net/profile/Leif_Nottestad/contributions</a> <a href="http://www.imr.no/om_havforskningsinstituttet/ansatte/n/leif_nottestad/en">http://www.imr.no/om_havforskningsinstituttet/ansatte/n/leif_nottestad/en</a>

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

Name:	Research institutes and scientists from EU, Iceland, Faroe Islands, Greenland and Norway
Affiliation:	
Address:	
Telephone:	
Fax:	
Email:	
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:

The major aim is abundance estimation with precision estimates of Northeast Atlantic (NEA) mackerel. Secondary aim is abundance estimation of Atlantic blue whiting and Norwegian spring-spawning herring, thereby establishing new fishery independent indices on abundance to be used in the assessment of these stocks. An important objective is also to understand the Norwegian Sea ecosystem and especially the distribution, migration, feeding and spatial overlap of important pelagic planktivorous species (mackerel, herring



and blue whiting) in relation to hydrography, plankton and top predators.

There is also concrete plans to cover the North Sea during the IESSNS 2020 by a Danish vessel starting and finishing in Skagen in July 2020. The final preparation is not yet available. Contact person is Kaj Wieland at DTU Aqua in Denmark.

There is also an intention to perform a survey west of the British Isles with a Scottish vessel during IESSNS 2020. This is not yet confirmed. Contact person is Steven Mackinson.

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

IESSNS survey used for assessment purposes on NEA mackerel, Norwegian spring-spawning herring and Atlantic blue whiting in ICES.

2.3 Relevant previous or future research projects:

ICES WGNAPES

2.4 Previous publications relating to the project:

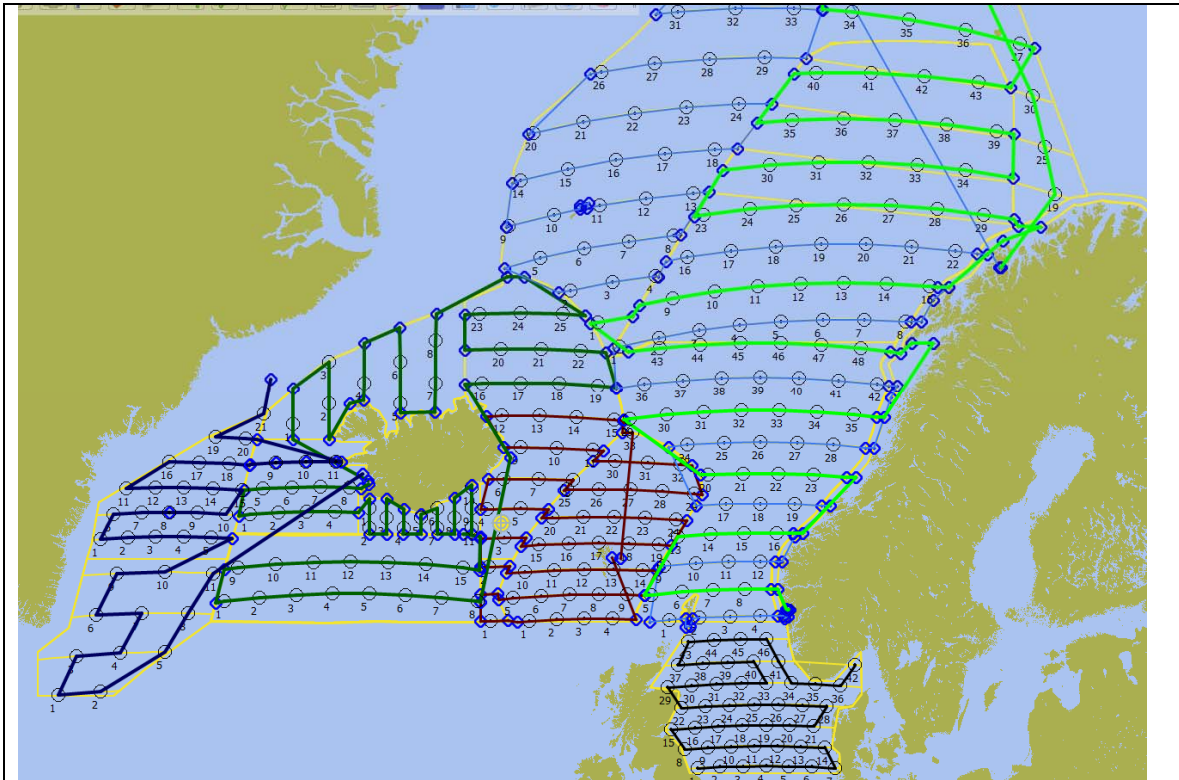
See ICES WG WIDE (2019) and WG IPS (2020) reports for previous reports and publications

### 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.

Northern North Sea. There will be about 5 sampling stations from 3-15 July 2020 within UK waters (see attached map with survey lines). The exact coordinates are not available yet due to randomized sampling design, which we have not finalized yet.

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.



**Figure 1.** Preliminary surface stations (black circles) and transects (black lines) including 2 participating vessels Norway, otherwise 1 vessel each from Faroe Islands, Iceland, Greenland for IESSNS in July-August 2020.

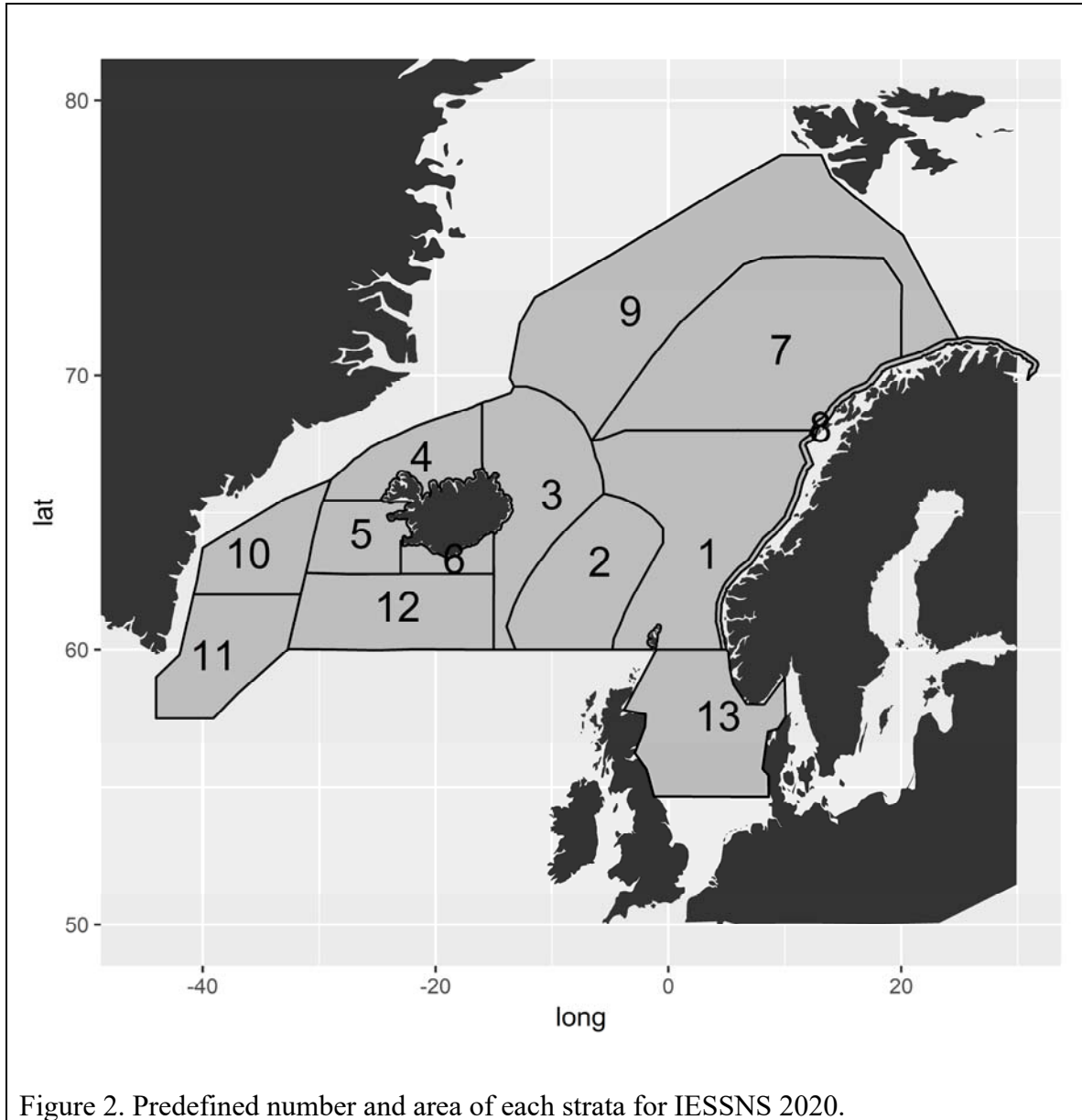


Figure 2. Predefined number and area of each strata for IESSNS 2020.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	M/V "Kings Bay"
Type/Class:	Fishing vessels: combined stern trawlers and purse seiners
Nationality (Flag State):	Norwegian
Identification Number (IMO/Lloyds No.):	9617985
Owner:	Kings Bay AS, Myrane 15, 6094 Leinøy, Norway
Operator:	Bjørn Sævik
Overall length (meters):	77.5 m
Maximum draught:	9.0 m
Displacement/Gross Tonnage:	GT 4027
Propulsion:	MaK 8M32C
Cruising & maximum speed:	10 & 16 knots
Call sign:	LCNN

**Mal søknad Britiske Myndigheter - Application for Consent to conduct Marine Scientific Research**

INMARSAT number and method and capability of communication (including emergency frequencies):	0047 90075641
Name of Master:	Bjørn Sævik
Number of Crew:	9
Number of Scientists on board:	9

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:
Pelagic trawling	Multpelt 832 trawling 30 min	Trawl sensors and cameras
CTD	CTD casts 0-500 m depth	Seabird and SAIV sonde
Plankton sampling	WP2 sampling 0-200 m depth	



4.6 Indicate nature and quantity of substances to be released into the marine environment:

None, except for fuel for propulsion

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):

No

## 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:

3.-15. July 2020

6.2 Indicate if multiple entries are expected:

No

## 7. Port Calls

7.1 Dates and Names of intended ports of call:

No ports of call in UK. Port call in the harbor at Tromsø in Norway with Kings Bay 22. July 2020. This is due to change in personnel of scientists and crew members

7.2 Any special logistical requirements at ports of call:

No

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

Not relevant

## 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:

ICES IESSNS 2020 survey

8.2 Proposed dates and ports for embarkation/disembarkation:

Not applicable



**Mal søknad Britiske Myndigheter - Application for Consent to conduct Marine Scientific Research**

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:

25. August 2020

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

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

Access via ICES WGWISE

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

Access via ICES WGWISE

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

Access via ICES WGWISE

9.6 Proposed means of making results internationally available:

Access via ICES WGWISE

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.:

None

Signature:

Contact information of the focal point:

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Country: Norway

Affiliation: Institute of Marine Research

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