NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

NAME OF RESEARCH SHIP: Kings Bay **CRUISE NO. 2018 826**

12 DATES OF CRUISE From: 04. July 2018 To: 08. August 2018

w **OPERATING AUTHORITY:** Institute of Marine Research P.O. Box 1870 Nordnes N-5024 BERGEN, NORWAY

TELEPHONE: 47-55238500 47-55238531 42297 OCEAN N

TELEFAX:

4 OWNER (if different from no. 3)

S PARTICULARS OF SHIP: Name: M/V "Kings Bay" Nationality: Norwegian

Overall length: 77.5 m

Maximum draught: 9.0 m

Net tonnage: NT = 871 (GT = 2906)

Propulsion: Diesel, MaK 8M32C

Call sign: LCNN

Registration port and number: Leinøy, Norway IMO 9617985 (if registered fishing vessel)

CREW Name of master: Bjørn Sævik

6

Number of crew: 9

7. SCIENTIFIC PERSONNEL

Name and address of Leif Nøttestad (project leader)

scientist in charge: Kjell Rong Utne (cruise leader 02.-22. July)

Leif Nøttestad (cruise leader 22. July- 08. Aug)

Tel/telex/fax no.: As in # 3

(47)90075641

No. of scientists:

2 scientists, 4 technicians, 2 engineers

GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)

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Norwegian Sea and surrounding areas including: EEZ United Kingdom, Faroe Islands, Iceland, Greenland

58°N - 78° N 24°E- 36° W

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE

blue whiting using acoustic recordings combined with trawl sampling. with Multpelt 832 pelagic trawling and abundance estimation of Norwegian spring-spawning herring and herring, salmon and blue whiting as well as marine mammal sightings. Abundance estimation of mackerel Mackerel and Ecosystem cruise with oceanography, zooplankton sampling, biological sampling of mackerel,

10. DATES AND NAMES OF INTENDED PORTS OF CALL

Bergen, Norway 4. July 2018 Akureyri, Iceland 22. July 2018 Tromsø, Norway 8. August 2018

ANY SPECIAL REQUIREMENTS AT PORTS OF CALL

Akureyri for change of scientific personell and crew members. Kindly ask for available and suitable harbor place for M/V "Kings Bay" 22. July in

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PART B: DETAIL

1. NAME OF RESEARCH SHIP:

CRUISE NO. 2018 826

DATES OF CRUISE From:

5

04. July 2018

08. August 2018

3. a) PURPOSE OF RESEARCH

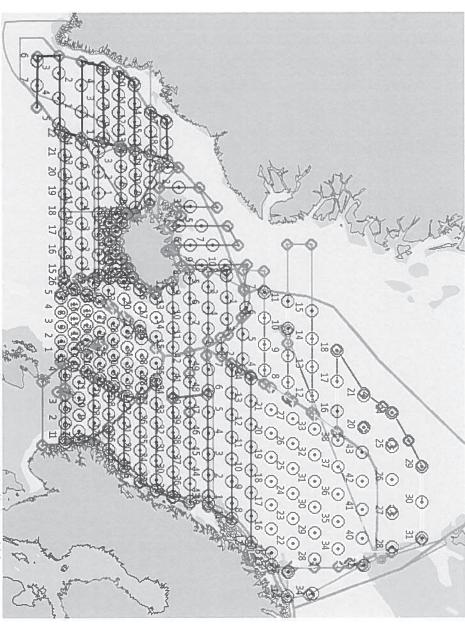
overlap of important pelagic planktivorous species (mackerel, herring and blue whiting) in relation to to understand the Norwegian Sea ecosystem and especially the distribution, migration, feeding and spatial acoustic abundance estimation of blue whiting and Norwegian spring-spawning herring. A major task is also The major aim is abundance estimation of Northeast Atlantic (NEA) mackerel. Secondary aim is to perform

hydrography, zooplankton and top predators.

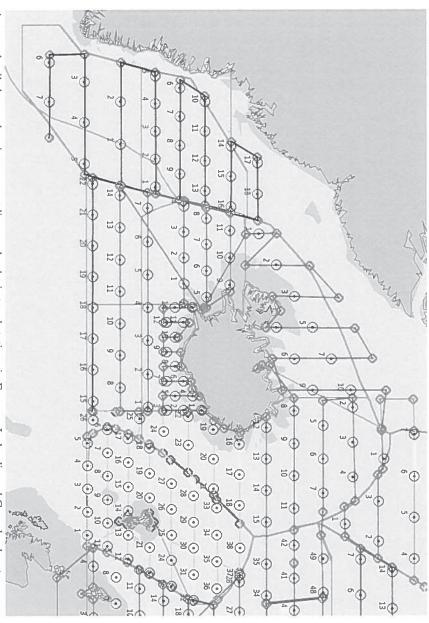
mesh size, etc.) b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type

During the cruise the following operations will be made:

- on acoustic registrations. There will be about 70 trawl stations for each of the two chartered fishing vessels during the survey based on both predetermined stations and opportunistic trawling in deeper waters for blue whiting and herring based Pelagic trawling 0-35 m with Multpelt 832 pelagic trawl for mackerel, blue whiting, herring and salmon
- 2 Conductivity-Temperature-Depth (CTD) measurements using a SBE 911+ system on a water sampler (SBE32 Carousel) rosette equipped with 12 bottles and SAIV CTD measurements. In total 50-60 CTD casts are planned in the area.
- w 4 WP2 net casts for zooplankton sampling. Stipulated 70 zooplankton samples from 0-200 m for each vessel
- Marine mammal sightings from the bridge during daylight hours.
- 4. of intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished. ATTACH CHART showing (on an appropriate scale) the geographical area of intended work, positions



Greenland) for IESSNS in July-August 2018. Figure 1. Preliminary surface stations (open black circles) and transects (green, yellow and blue = Norway with 2 vessels (Kings Bay and Vendla), torqouise = Faroe Islands, red = Iceland, black =



A more detailed map showing transect lines and pelagic trawl stations in Faroese, Icelandic and Greenland waters

5 a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide.

At each CTD station, close to the bottom (10-15 m above the seabed) water sample will be taken to measure water salinity. This data set will be used to correct conductivity (hence inferred salinity) measured by the CTD system.

be retained on board b) METHODS OF OBTAINING SAMPLES fishing gear, indicate fish stocks being worked, quantity of each species required, and quantity of fish (e.g., dredging/coring/drilling/fishing, etc. When using to

species: nil. horse mackerel, herring, blue whiting and salmon due to catch needed for biological research. Other individuals/haul are required. Quantity of fish to be retained on board: up to 200 tonnes of mackerel, Fishing with pelagic trawl upon mackerel, herring, blue whiting and salmon, of which approx. 100

6. <u>DETAILS OF MOORED EQUIPMENT</u>

No moored equipment will be deployed during the present cruise.

Laying	Dates
Recovery	
Description	
<u>Depth</u>	
Latitude	
Longitude	

7. (Use separate sheet if necessary) ANY HAZARDOUS MATERIALS (chemicals/explosives/gases/radioactives, etc.

a) Type and trade name

b) Chemical content (and formula) NIL

c) IMO IMDG code (reference and UN no.) NIL

d) Quantity and method of storage on board NIL

e) If explosives give date(s) of detonation NIL

Method of detonation

· Position of detonation

Frequency of detonation

- Depth of detonation

- Size of explosive charge in kg.

8. DETAIL AND REFERENCE OF

a) Any relevant previous/future cruises

August/September 2007, as cruise report one for the vessels chartered by the Institute of Marine Research separately). The results will also be summarized in the report of ICES Planning Group Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys, which will meet in August 2009. b) Any previously published research data relating to the proposed cruise

9. MADE NAMED AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN

WGIPS and WGWIDE involved scientists from European countries

10. STATE

a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable (Yes/No)

No port call will be made.

b) Participation of an observer from the coastal state for any part of the cruise together with the dates and the ports for embarkation and disembarkation

No arrangements were made for an observer.

c) When research data from the intended cruise is likely to be made available to the coastal state and by what

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

PART C. SCIENTIFIC EQUIPMENT

Complete the following table <u>Coastal state:</u> Iceland using a separate page for

each coastal state Port call: Yes. Akureyri harbor 22. July 2018

<u>Dates:</u> 6. – 30. July 2018

Indicate "YES or "NO"

Distance from coast

Lei Shutherday	Moored Instrument	Water sampling	Echo sounding	List scientific work by function e.g. Magnetometry Gravity Diving Seismics Seabed sampling Bathymetry Trawling Echo sounding Water sampling Water sampling U/W TV Moored instr. Towed instr.
	n.a.	0-500 m	0-200m	Water column including sediment sampling of the seabed
	No	No	No	Fisheries research within fishing limits
	No	No	No	Research concerning the natural resources of the continental shelf or its physical characteristics
	No	No	No	Within 0-4 nm
	No	No	No	Between 4-12 nm
	Yes	Yes	Yes	Between 12-200 nm

te: 15.02.2018

NB. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.