Echo integration of herring and blue whiting and pelagic

None

None

APPLICATION FOR A RESEARCH CRUISE WITHIN A COASTAL STATE'S FISHERY LIMITS

A. GENERAL

1.	NAME OF RESEARCH SHIP	DANA		CRUISE NO.	04/20		
2.	DATES OF CRUISE	FROM	28/4-2020	TO 27/5-2020			
3.	OPERATING AUTHORITY	National Institute of Aquatic Resources (DTU-AQUA) Danish Technical University Kemitorvet, building 202					
		DK-2800 Kgs. Lyngby					
		Telephone: +45 35883300 Fax: 35883333					
4.	OWNER (if different for para.3)		echnical University				
_	DADWICKY A DO OF CHAP		Lyngby, Denmark	D.M.			
5.	PARTICULARS OF SHIP	NAME	A * *(D*)	DANA			
		NATION		Danish			
			LL LENGTH (metres)	80 metres			
			UM DRAUGHT (metres)	6.3 metres 669.53 t			
		NET TO	NNAGE D OF PROPULSION	Diesel			
		CALL SI		OXBH			
			ERED PORT & NUMBER	Hirtshals			
			hing vessel)	Tintshais			
6.	CREW		OF MASTER	Jesper Sandager			
0.	CKEV		R OF CREW	20			
7.	SCIENTIFIC PERSONNEL		ND ADDRESS OF	Karl-Johan Stæhr			
′•	SOLE VIII TO LEASON VEE		IST IN CHARGE		of Aquatic Resources (DTU-AQUA)		
		50121(11		Danish Technical			
				North Sea Research	•		
				DK-9850 Hirtshal			
				Denmark	,		
				E-mail:kjs@aqua.	dtu.dk		
		TEL/TEI	LEX/FAX NO	Tel: +45 35 88 32	71 Fax: +45 35 88 32 60		
		NUMBEI	R OF SCIENTISTS	10			
8.	GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude and Longitude): 61^{0} N $- 64^{0}$ N , 2^{0} W $- 2^{0}$ E						
					See attached map		

BRIEF DESCRIPTION OF PURPOSE OF CRUISE:

10. DATES AND NAMES OF INTENDED PORTS OF CALL:

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:

fishing

B. DETAIL

1. NAME OF RESEARCH SHIP DANA CRUISE NO. 04/20

2. **DATES OF CRUISE FROM** 28/4-2020 **TO** 27/5-2020

3. **PURPOSE OF RESEARCH AND GENERAL OPERATIONAL METHODE:** Acoustic estimation of abundance of herring and other pelagic species (specially blue whiting) in the Norwegian Sea

4. PLEASE ATTACH CHART showing, at the appropriate scale the geographical area of the intended work, the areas to be fished, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment etc.:

See Map.

5a. TYPES OF SAMPLES REQUIRED e.g. Geological/water/plankton/fish. If fishing gear is to be used please indicate what fish stocks will be worked, the maximum quantity required of each species/stock and the quantity of fish to be retained on board:

Eich water and plankton

Fish, water and plankton

5b. METHODS BY WHICH SAMPLES WILL BE OBTAINED (e.g. dredging/coring/drilling/fishing etc.)

Pelagic trawling by using a midwater trawl and a midwater plankton sampler.

Water sampling using a Sea Bird CTD probe with mounted water samplers.

6a. **DETAILS OF MOORED EQUIPMENT:**

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

None

6b. FULL DESCRIPTION FOR ALL FISHING GEAR TO BE USED (e.g. bottom trawl, mesh size, attachments etc.):

Pelagic trawl (TURBO), codend mesh size 16 mm.

Pelagic trawl (Fotö), codend mesh size 16 mm.

Plankton WP2-net, codend meah size 180 µm

Sea Bird CTD probe with mounted water samplers

7. ANY HAZARDOUS MATERIALS e.g. chemicals/explosives/gases/radioactives etc)

(use seperate sheet if necessary)

None

- (a) TYPE OF TRADE NAME
- (b) CHEMICAL CONTENT (& FORMULA)
- (c) IMO IMDG CODE Reference & UN Number
- (d) QUANTITY & METHODS OF STOWAGE ON BOARD
- (e) IF EXPLOSIVES give date(s) of detonation
 - Method of detonation
 - Position of detonation
 - Frequency of detonation
 - Depth of detonation
 - Size of explosive charge in Kgs

8. PLEASE SET OUT DETAILS OF:

(a) ANY RELEVANT PREVIOUS/FUTURE CRUISES:

This survey is a joined EU - Norway survey on herring and blue whiting. The survey has been conducted since 2004

(b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE: (Attach separate sheet if necessary)

ICES, PGNAPES reports 2003 - 2009 and WGNAPES 2010-2011, WGIPS 2012-2020

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

10.

Ian Holmes

CEFAS, Lowestoft Laboratory

Pakefield Road, Lowestoft

Suffolk, NR33 OHT

Phone: +44 1502 562244 - Fax: +44 1505 513835 Mail: ian.holmes@cefas.co.uk

11. STATE:

(a) WHETHER <u>VISITS TO THE SHIP</u> IN PORT BY COASTAL STATE SCIENTISTS WILL BE ACCEPTABLE: \mathbf{v}

(b) WHETHER IT WILL BE ACCEPTABLE TO CARRY ON BOARD AN OBSERVER FOR ANY PART OF THE CRUISE:

Yes

(If 'yes' please indicate possible dates and ports of embarkation/disembarkation)

By special arrangement

(c) WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AUTHORITIES AND BY WHAT MEANS:

ICES WGIPS meeting, January 2021

If the report will not be available within 12 months of the cruise, please set out, an explanation for the delay indicating when the report will be available.

12. SCIENTIFIC EQUIPMENT

Complete the following table – separate copy for each coastal state

COASTAL STATE: United Kingdom

PORT CALL: None

DATES:

Indicate 'yes' or 'no' other than for fishing gear when the total hours of fishing in each zone should be indicated

<u>LIST SCIENTIFIC</u>				DISTANCE FROM COAST			
e.g.: Magnetometry Gravity diving Seismics Bathymetry Seabed sampling Trawling Echo sounding Water sampling U/W TV Moored instruments Towed instruments	Water Column	Fisheries Research within fishing limits	Research concerning Continental shelf out of Coastal State's margin	Whitin 3 NM	Between 3-12 NM	Between 12 and 200 NM	
Echo sounding	entire	Yes	Yes	No	No	Yes	
Towed instruments	entire	Yes	Yes	No	No	Yes	
Trawling (fish) only pelagic	entire	Yes	Yes	No	No	Yes	
Trawling (plankton)	entire	Yes	Yes	No	No	Yes	

Linda Stuhr Christensen	
	Dated:
(On behalf of the Principal Scientist)	

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.

