

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

A. GENERAL

1. **NAME OF RESEARCH SHIP** DANA **CRUISE NO.** 05/18
2. **DATES OF CRUISE** **FROM** 1/5-2018 **TO** 30/5-2018
3. **OPERATING AUTHORITY** National Institute of Aquatic Resources (DTU-AQUA)
Danish Technical University
Kemitorvet, Bygning 202
DK-2800 Lyngby
Telephone: +45 35883300 Fax: 35883333
4. **OWNER (if different for para.3)** Danish Technical University
DK-2800 Lyngby, Denmark
5. **PARTICULARS OF SHIP**
- | | |
|-------------------------------------|------------|
| NAME | DANA |
| NATIONALITY | Danish |
| OVERALL LENGTH (metres) | 80 metres |
| MAXIMUM DRAUGHT (metres) | 6.3 metres |
| NET TONNAGE | 669.53 t |
| METHOD OF PROPULSION | Diesel |
| CALL SIGN | OXBH |
| REGISTERED PORT & NUMBER | Hirtshals |
- (if reg. fishing vessel)
6. **CREW**
- | | |
|-----------------------|---------------|
| NAME OF MASTER | Claus Persson |
| NUMBER OF CREW | 20 |
7. **SCIENTIFIC PERSONNEL**
- | | |
|--|---|
| NAME AND ADDRESS OF SCIENTIST IN CHARGE | Karl-Johan Stæhr
National Institute of Aquatic Resources (DTU-AQUA)
Danish Technical University
North Sea Research Park
DK-9850 Hirtshals,
Denmark
E-mail: kjs@aqu.dtu.dk |
|--|---|
- TEL/TELEX/FAX NO** Tel: +45 35 88 32 71 Fax: +45 35 88 32 60
- NUMBER OF SCIENTISTS** 10
8. **GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE** (with reference in Latitude and Longitude): 57°N – 75°N , 13° W – 31°E
See attached tentative map
9. **BRIEF DESCRIPTION OF PURPOSE OF CRUISE:** Echo integration of herring and blue whiting.
10. **DATES AND NAMES OF INTENDED PORTS OF CALL:** Bodø or Tromsø 12-16 May 2018 for change of crew
11. **ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:** None

B. DETAIL

1. **NAME OF RESEARCH SHIP** DANA **CRUISE NO.** 05/18
2. **DATES OF CRUISE** **FROM** 1/5-2018 **TO** 30/5-2018
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 in cooperation with the Norwegian R/V G.O.Sars from IMR, Norway
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:
Fish, water and plankton
- 5b. **METHODS BY WHICH SAMPLES WILL BE OBTAINED** (e.g. dredging/coring/drilling/fishing etc.)
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:**
- | <u>Dates:</u> | <u>Laying</u> | <u>Recovery</u> | <u>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 (Fotø), codend mesh size 16 mm.
Plankton WP2-net, codend mesh size 180 µm
Sea Bird CTD probe with mounted water samplers
7. **ANY HAZARDOUS MATERIALS** e.g. chemicals/explosives/gases/radioactives etc)
(use separate 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. Has been conducted with R/V DANA 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 2012-2018

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:

Are Salthaug

Institute of Marine Research

P.O. Box 1870 Nordnes, 5817 Bergen, Norway

Phone: +47 90971569

E-mail: are.salthaug@imr.no

10. STATE:

(a) WHETHER VISITS TO THE SHIP IN PORT BY COASTAL STATE SCIENTISTS WILL BE ACCEPTABLE:

Yes

(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 2019

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

COASTAL STATE: Norway

PORT CALL: Tromsø or Bodo

Complete the following table –
separate copy for each coastal state

DATES: 12-16 May 2018

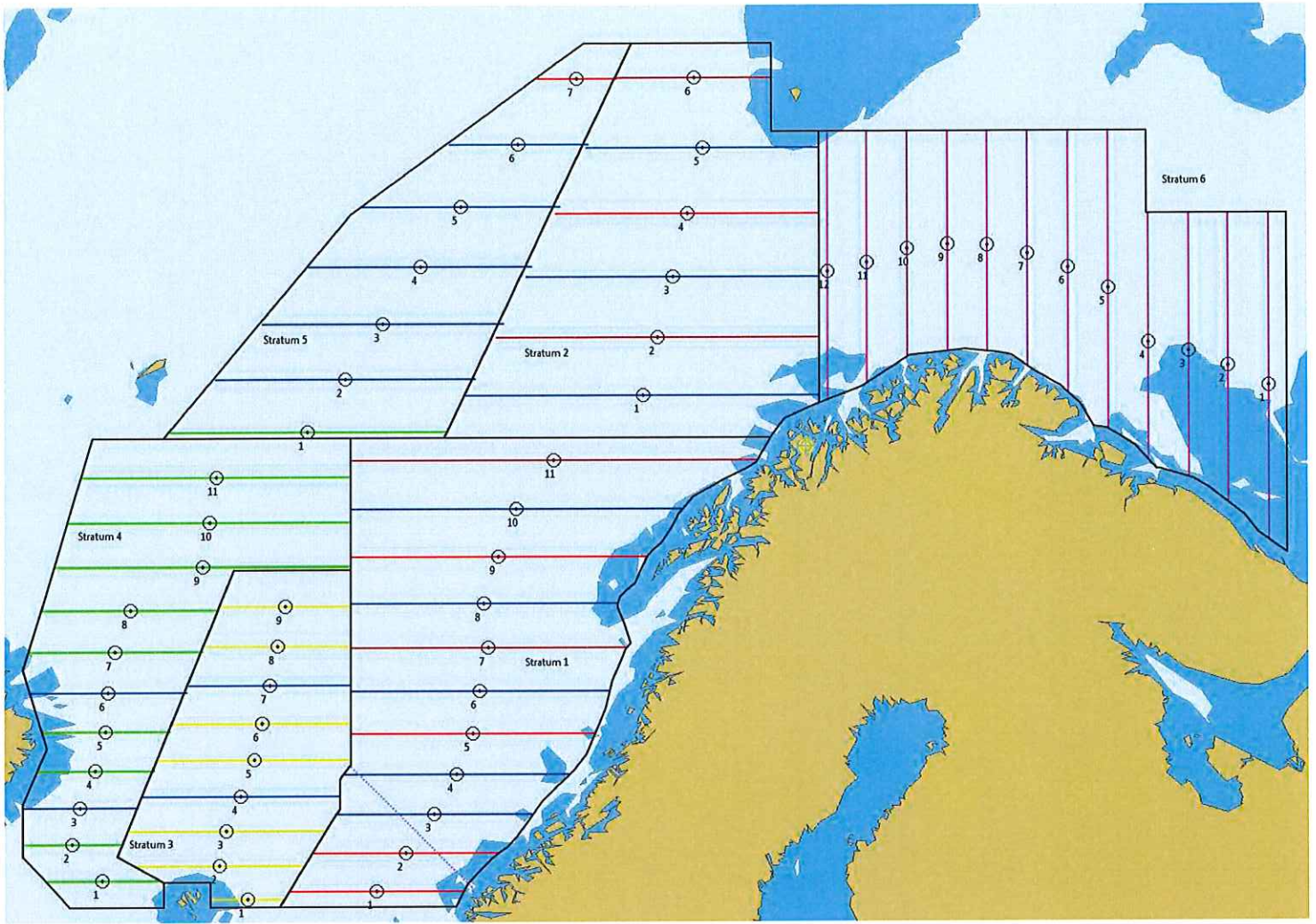
Indicate 'yes' or 'no' other than for fishing gear when the total hours of fishing in each zone should be indicated

LIST SCIENTIFIC WORK BY FUNCTION 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	DISTANCE FROM COAST		
				Whitin 3 NM	Between 4-12 NM	Between 12 and 200 NM
Echo sounding	entire	Yes	Yes	No	Yes	Yes
Towed instruments	entire	Yes	Yes	No	Yes	Yes
Trawling (fish)	entire	Yes	Yes	No	Yes	Yes
Trawling (plankton)	entire	Yes	Yes	No	Yes	Yes

..... Linda Stuhr Christensen.....
(On behalf of the Principal Scientist)

Dated: 12/1-18

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.



Tentative cruise track Dana with red