

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

A. GENERAL

1. **NAME OF RESEARCH SHIP** DANA **CRUISE NO.** 12/19
2. **DATES OF CRUISE** **FROM** 03.09.19 **TO** 18.09.19
3. **OPERATING AUTHORITY** National Institute of Aquatic Resources (DTU-AQUA)  
Danish Technical University  
Kemitorvet, building 202  
DK-2800 Kgs. Lyngby  
Telephone: 35883300 Fax: 35883333
4. **OWNER (if different for para.3)** Danish Technical University  
DK-2800 Lyngby, Denmark
5. **PARTICULARS OF SHIP**
- |                                     |            |
|-------------------------------------|------------|
| <b>NAME</b>                         | DANA       |
| <b>NATIONALITY</b>                  | Danish     |
| <b>OVERALL LENGTH (metres)</b>      | 80 metres  |
| <b>MAXIMUM DRAUGHT (metres)</b>     | 6.3 metres |
| <b>NET TONNAGE</b>                  | 669.53 t   |
| <b>METHOD OF PROPULSION</b>         | Diesel     |
| <b>CALL SIGN</b>                    | OXBH       |
| <b>REGISTERED PORT &amp; NUMBER</b> | Hirtshals  |
- (if reg. fishing vessel)
6. **CREW**
- |                       |  |
|-----------------------|--|
| <b>NAME OF MASTER</b> | Jesper Jørgen Brochstedt Rasmussen (jbro@aqu.dtu.dk) |
| <b>NUMBER OF CREW</b> | 20   |
7. **SCIENTIFIC PERSONNEL**
- |  |  |
|--|--|
| <b>NAME AND ADDRESS OF SCIENTIST IN CHARGE</b> | Norbert Rohlf<br>Thünen-Institute of Sea Fisheries<br>Herwigstrasse 31,<br>D-27572 Bremerhaven<br>E-mail: norbert.rohlf@thuenen.de |
| <b>TEL/TELEX/FAX NO</b>                        | Tlf: +49 471 94460 331   |
| <b>NUMBER OF SCIENTISTS</b>                    | 7  |
8. **GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE** (with reference in Latitude and Longitude):
- See map
9. **BRIEF DESCRIPTION OF PURPOSE OF CRUISE:**  
Plankton sampling for the International Herring Larvae Surveys (an International ICES coordinated research programme)
10. **DATES AND NAMES OF INTENDED PORTS OF CALL:**  
no port of call intended
11. **ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:** None

## B. DETAIL

1. **NAME OF RESEARCH SHIP** DANA **CRUISE NO.** 12/19
2. **DATES OF CRUISE** **FROM** 03.09.19 **TO** 18.09.19
3. **PURPOSE OF RESEARCH AND GENERAL OPERATIONAL METHODE:**  
The cruise is part of the ICES International Herring Larvae Surveys in 2019. The programme focuses on the abundance and spatial distribution of herring and other fish larvae. All samples are taken on a standard grid using a plankton sampler ("Nackthai", a modified Gulf sampler). Stations are approximately 10 nm apart.
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 attached chart
- 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:**  
Plankton
- 5b. **METHODS BY WHICH SAMPLES WILL BE OBTAINED (e.g. dredging/coring/drilling/fishing etc.)**  
Double oblique tows with plankton-samplers from surface to near bottom.
- 6a. **DETAILS OF MOORED EQUIPMENT:** None  

<b>Dates:</b>	<b>Laying</b>	<b>Recovery</b>	<b>Description</b>	<b>Latitude</b>	<b>Longitude</b>
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- 6b. **FULL DESCRIPTION FOR ALL FISHING GEAR TO BE USED (e.g. bottom trawl, mesh size, attachments etc.):**  
No fishing gear to be used. The plankton sampler has a mouth opening of 20 cm and the plankton net mesh size of 335 microns
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:**  
The cruise is part of the International Herring Larvae Surveys which have been carried out annually since 1972.
  - (b) **ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE: (Attach separate sheet if necessary)**  
All data are published annually by ICES in the Report of the Herring Assessment Working Group for the Area South of 62°N.
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:**  
Dr. Susan Lusseau, Marine Scotland, Aberdeen, 375 Victoria Road

**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:**

Cruise summary report within a week and final cruise report within three month. All herring larvae data will be imported into ICES eggs and larvae database until April 2020, which grants open access to all interested parties.

**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:

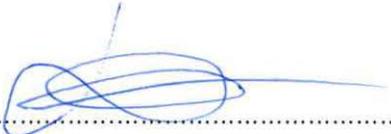
PORT CALL:

DATES:

Complete the following table –  
separate copy for each coastal state

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

<b>LIST SCIENTIFIC WORK BY FUNCTION</b>  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 4 NM	Between 4-12 NM	Between 12 and 200 NM

.....Linda Stuhr Christensen.....

Dated: 11/4-2019

(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.**