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

٨	GENERAL	r
1.	OFLICIAL	<u>_</u>

1. NAME OF RESEARCH SHIP

DANA

CRUISE NO.

07/2018

2. DATES OF CRUISE

FROM

30/7 2018

TO 17/8 2018

3. OPERATING AUTHORITY

3. OPERATING AUTHORITY

DTU Aqua (National Institute of Aquatic Resources)

Kemitorvet, Building 202 DK-2800 Kgs. Lyngby

Telephone: +45 35 88 33 00 Fax.: +45 35 88 33 33 E-mail: aqua@aqua.dtu.dk

4. OWNER (if different for para.3)

5. PARTICULARS OF SHIP

NAME

DANA

NATIONALITY

Danish

OVERALL LENGTH (metres)

80 metres

MAXIMUM DRAUGHT (metres)
NET TONNAGE

6.3 metres 669.53 t

METHOD OF PROPULSION

Steam Turbine/Diesel/Diesel Electric

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

Kai Wieland / Helle Rasmussen

DTU Aqua

North Sea Science Park

Willemoesvej 2 DK-9850 Hirtshals

TEL NO / FAX NO

+45 35 88 33 00 / +45 35 88 33 33

NUMBER OF SCIENTISTS

10

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude and Longitude):

51°00'N - 58°00'N, 02°00'W -10°00'E

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE:

IBTS (International Bottom Trawl Survey)

10. DATES AND NAMES OF INTENDED PORTS OF CALL:

NONE

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:

NONE

B. DETAIL

1. NAME OF RESEARCH SHIP

DANA

CRUISE NO.

07/2018

2. DATES OF CRUISE

FROM

30/7 2018

T0: 17/8 2018

3. PURPOSE OF RESEARCH AND GENERAL OPERATIONAL METHODE

International Bottom Trawl Survey. Bottom Trawling and Pelagic sampling.

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 enclosed map and station list

- 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: Herring, cod, haddock, whiting, sprat, Norway pout, mackerel, fish larvae and water
- 5b. METHODS BY WHICH SAMPLES WILL BE OBTAINED (e.g. dredging/coring/drilling/fishing etc.) Fishing
- 6a. DETAILS OF MOORED EQUIPMENT:

Dates:

Laying

Recovery

Description

Latitude

Longitude

None

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

GOV Bottom trawl (16 mm)

ISAAC-KIDD MIDWATER TRAWL (MIK) and Bongo net: Pelagic fish larvae (5 mm).

7.		chemicals/explosives/gases/radioactives etc)							
	(use seperate sheet if necessary)	None							
	(a) TVDE OF TDADE NAME								
	(a) TYPE OF TRADE NAME								
	(b) CHEMICAL CONTENT (& FORM								
	(c) IMO IMDG CODE Reference & UN								
	(d) QUANTITY & METHODS OF STO								
	(e) IF EXPLOSIVES give date(s) of deto	onation							
	- 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/FUT	TURE CRUISES:							
	NS-IBTS 1981 – 2017								
	(b) ANY PREVIOUSLY PUBLISHED Inccessary) ICES IBTSWG several reports	RESEARCH DATA RELATING TO THE PROPOSED CRUISE: (Attach separate sheet if							
9. NAMES AND ADDRESSES OF SCIENTISTS IN COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUIS PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE: Jim Ellis Finlay Burns									
	CEFAS	Marine Scotland Science							
	Lowestoft Laboratory	Marine Laboratory							
	Lowestoft	Aberdeen							
	UK	UK							
10.	STATE:								
(a) WHETHER <u>VISITS TO THE SHIP</u> IN PORT BY COASTAL STATE SCIENTISTS WILL BE ACCEPTABLE:									
A section above.									
		YES							
	(b) WHETHER IT WILL BE ACCEPTAN	BLE TO CARRY ON BOARD AN OBSERVER FOR ANY PART OF THE CRUISE YES							
	(If 'ves' please indicate possible dates or	nd ports of embarkation/disembarkation)							
	(ii jes piense maiente possibile dates al	By Special arrangement							

ICES DATRAS September 2018, IBTSWG March 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.

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

12. SCIENTIFIC EQUIPMENT

Complete the following table – separate copy for each coastal state

COASTAL STATE: United Kingdom

PORT CALL: None

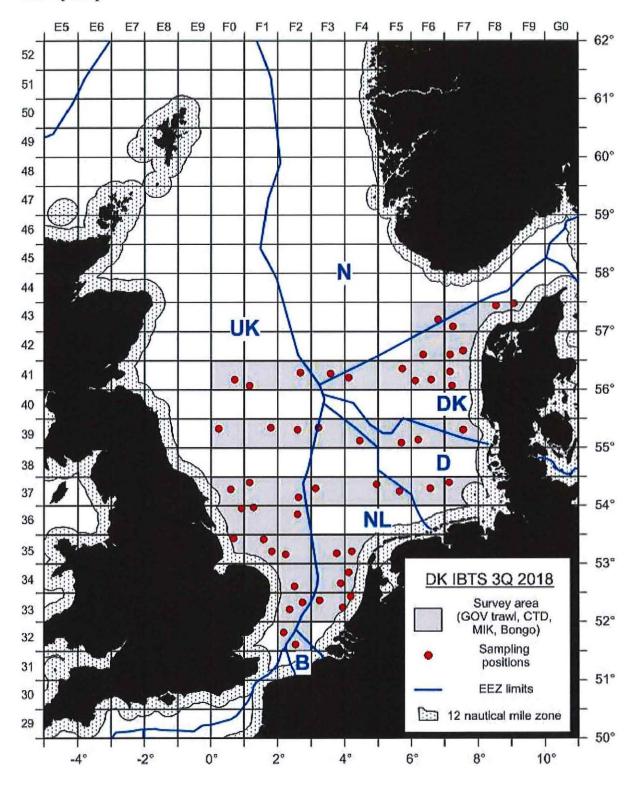
DATES: 30/7 - 17/8 2019

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

LIST SCIENTIFIC				DIS	TANCE FROM CO.	AST
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	Within 3 NM	Between 3-12 NM	Between 12 and 200 NM
Trawling Water sampling CTD MIK and Bongo Echo sounding	Yes Yes Yes Yes Yes	Yes Yes Yes Yes	No No No No	No No No No	No No No No	Yes Yes Yes Yes

(On behalf of the Principal Scientist)

Survey map



Station list

StatRec	ShootLat	ShootLon	HaulLat	HaulLon	ShootLatDeg	Min	ShootLonDeg	Mi	ı HaulLatDegN	lin	HaulLonDegi	Min
43F9	57.4870	9.0898	57.4863	9.1518	57° 29.214′	N	9° 5.388'	E	57° 29.178'	N	9° 9.108′	E
43F8	57.4540	8.5323	57.4563	8.5938	57° 27.234'	N	8° 31.932'	E	57° 27.372'		8° 35.622'	E
43F7	57.0950	7.2578	57.1012	7.3180	57° 0.57'	N	7° 15.462'	Ε	57° 6.066'	N	7° 19.074'	E
43F6	57.2126	6.7970	57.1890	6.8455	57° 12.756′	N	6° 47.814'	E	57° 11.34'		6° 50.73'	E
42F7	56.6019	7.1504	56.5727	7.1806	56° 36.108'	N	7° 9.024'	E	56° 34.362'	N	7° 10.83'	E
42F7	56.6769	7.5619	56.7103	7.5705	56° 40.614'	N	7° 33.708'	E	56° 42.612'	N	7° 34.224'	E
42F6	56.6009	6.3576	56.6171	6.4096	56° 36.054'	N	6° 21.45'	E	56° 37.026'	N	6° 24.57'	E
41F7	56.3037	7.1700	56.2996	7.1103	56° 18.216'	N	7° 0.102'	E	56° 17.976′	N	7° 6.618'	E
41F7	56.0677	7.2191	56.0600	7.1610	56° 4.056'	N	7° 13.14'	E	56° 3.594′	N	7° 9.654'	Ε
41F6	56.1827	6.6086	56.1826	6.5493	56° 10.956'	N	6° 36.516'	E	56° 10.956'	N	6° 32.958′	E
41F6	56.1498	6.1099	56.1408	6.0551	56° 8.982'	N	6° 6.594'	E	56° 8.442'	N	6° 3.3'	E
41F5	56.3595	5.7351	56.3815	5.7787	56° 21.564'	N	5° 44.1'	E	56° 22.89'	N	5° 46.722'	E
41F4	56.2074	4.1061	56.2276	4.1547	56° 12.444′	N	4° 6.366'	E	56° 13.656'	N	4° 9.276'	E
41F3	56.2805	3.5888	56.2599	3.6354	56° 16.824′	N	3° 35.322′	E	56° 15.594′	N	3° 38.124'	E
41F2	56.2861	2.6872	56.2913	2.7452	56° 17.166'	N	2° 41.226′	E	56° 17.472'	N	2° 44.706'	E
41F1	56.0681	1.1728	56.0958	1.2060	56° 4.086'	N	1° 10.362′	E	56° 5.748'	N	1° 12.354'	E
41F0	56.1669	0.7200	56.1817	0.7766	56° 10.014'	N	0° 43.2'	E	56° 10.902'	N	0° 46.596'	E
39F7	55.3178	7.5637	55.3234	7.5064	55° 19.062'	N	7° 33.816'	E	55° 19.398'	N	7° 30.378′	E
39F6	55.1395	6.2011	55.1289	6.1463	55° 8.37'	N	6° 12.06'	E	55° 7.734'	N	6° 8.772'	E
39F5	55.0898	5.6963	55.1024	5.6445	55° 5.388'	N	5° 41.772'	E	55° 6.144'	N	5° 38.67'	E
39F4	55.1298	4.4523	55.1014	4.4230	55° 7.782'	N	4° 27.132'	E	55° 6.078'	N	4° 25.374'	E
39F3	55.3552	3.2338	55.3232	3.2172	55° 21.312'	N	3° 14.022'	E	55° 19.386'	N	3° 13.026'	E
39F2	55.3078	2.5974	55.2793	2.5675	55° 18.462′	N	2° 35.844'	E	55° 16.758'	N	2° 34.05'	E
39F1	55.3543	1.7920	55.3378	1.7416	55° 21.252'	N	1° 47.514'	E	55° 20.268′	N	1° 44.496'	E
39F0	55.3325	0.2224	55.3639	0.2025	55° 19.95'	N	0° 13.338'	Е	55° 21.828'	N	0° 12.15′	E
37F7	54.4094	7.1208	54.3857	7.1609	54° 24.564'	N	7° 7.242'	E	54° 23.136'	N	7° 9.654'	E
37F6	54.2957	6.5546	54.3058	6.5003	54" 17.742'	N	6° 33.27'	E	54° 18.342'	N	6° 30.012'	E
37F5	54.2474	5.6472	54.2672	5.6020	54° 14.838'	N	5° 38.832'	E	54° 16.032'	N	5° 36.114'	E
37F4	54.3668	4.9623	54.3529	4.9107	54° 22.008'	N	4° 57.738'	E	54° 21.174'	N	4° 54.636'	E
37F3	54.2927	3.1284	54.3078	3.1794	54° 17.556′	N	3° 7.704'	E	54° 18.468'	N	3° 10.758′	E
37F2	54.1401	2.6251	54.1419	2.6815	54° 8.406′	N	2° 37.506′	E	54° 8.514'	N	2° 40.884′	E
37F1	54.4069	1.1641	54.3973	1.2187	54° 24.408'	N	1° 9.84'	E	54° 23.838'	N	1° 13.122'	E
37F0	54.2834	0.5812	54.3016	0.5322	54° 16.998′	N	0° 34.866'	E	54° 18.09'	N	0° 31.926'	E
36F2	53.8483	2.5888	53.8332	2.6396	53° 50.898′	N	2° 35.322'	E	53° 49.992'	N	2°38.37'	E
36F1	53.9673	1.2782	53.9363	1.2977	53° 58.038'	N	1° 16.686'	E	53° 56.178'	N	1° 17.856′	E
36F0	53.9458	0.9254	53.9461	0.8676	53° 56.742'	N	0° 55.518'	E	53° 56.76'	N	0° 52.056'	E
35F4	53.2169	4.2207	53.2467	4.1982	53° 13.008'	N	4° 13.236′	E	53° 14.796'	N	4° 11.892'	E
35F3	53.1801	3.7465	53.1485	3.7646	53° 10.806'	N	3° 44.784'	Ε	53° 8.904'	N	3° 45.876'	E
35F2	53.1665	2.2395	53.1902	2.2059	53° 9.99'	N	2° 14.37'	E	53° 11.412'	N	2° 12.348'	E
35F1	53.4124	1.5695	53.4453	1.5822	53° 24.738'	N	1° 34.164'	E	53° 26.712'	N	1° 34.926′	E
35F1	53.2202	1.8058	53.1958	1.8434	53° 13.212'	N	1° 48.348'	E	53° 11.748′	N	1° 50.604'	E
35F0	53.4440	0.6747	53.4726	0.6726	53° 26.64'	N	0° 40.482'	E	53° 28.35'	N	0° 40.356'	E
34F4	52.8550	4.1172	52.8286	4.0853	52° 51.294'	N	4° 7.032'	E	52° 49.716'	N	4° 5.118′	E
34F3	52.6706	3.8931	52.6550	3.9414	52° 40.236′	N	3° 53.58'	E	52° 39.294'	N	3° 56.484'	E
34F2	52.6113	2.5058	52.5959	2.4572	52° 36.672′	N	2° 30.342'	E	52° 35.754′	N	2° 27.432′	E
33F4	52.4399	4.1765	52.4244	4.1290	52° 26.394'	N	4° 10.584'	E	52° 25.458'	N	4° 7.74'	E
33F3	52.2501	3.9336	52.2652	3.8851	52° 15'	N	3°56.01'	E	52° 15.912'	N	3°53.1'	E
33F3	52.3685	3.2650	52.3357	3.2652	52° 22.11'	N	3° 1.59'	E	52° 20.136'	N	3° 15.912'	E
33F2	52.3350	2.7437	52.3213	2.6948	52° 2.01'	N	2° 44.622'	E	52° 19.278'	N	2°41.682'	E
33F2	52.2222	2.3662	52.2557	2.3595	52° 13.326'	N	2° 21.972'	E	52° 15.342'	N	2° 21.57'	E
32F2	51.8251	2.1630	51.8571	2.1746	51° 49.5'	N	2° 9.78'	E	51° 51.426′	N	2° 10.476'	E
32F2	51.6181	2.5394	51.6487	2.5621	51° 41.346′	N	2° 8.052'	E	51° 40.356'	N	2° 8.592'	E