

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

A. GENERAL

1. **NAME OF RESEARCH SHIP** DANA **CRUISE NO.** 02/2018
2. **DATES OF CRUISE** **FROM** 1/2 2018 **TO** 19/2 2018
3. **OPERATING AUTHORITY**
3. **OPERATING AUTHORITY** DTU Aqua (National Institute of Aquatic Resources)
Kemitortvet, 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)** DTU Aqua
Charlottenlund Castle, DK-2920 Charlottenlund
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 | 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 |
| SCIENTIST IN CHARGE | Kai Wieland / Helle Rasmussen |
| SCIENTIST IN CHARGE | 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):**
54°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

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:
NS-IBTS 1981 – 2017

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

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:

Jim Ellis
CEFAS Lowestoft Laboratory
Lowestoft
UK

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 IBTSWG 2018, April

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: United Kingdom

PORT CALL: None

Complete the following table –
separate copy for each coastal state

DATES:

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		
				Within 3 NM	Between 3-12 NM	Between 12 and 200 NM
Trawling	Yes	Yes	No	No	No	Yes
Water sampling	Yes	Yes	No	No	No	Yes
CTD	Yes	Yes	No	No	No	Yes
MIK	Yes	Yes	No	No	No	Yes
Echo sounding	Yes	Yes	No	No	No	Yes

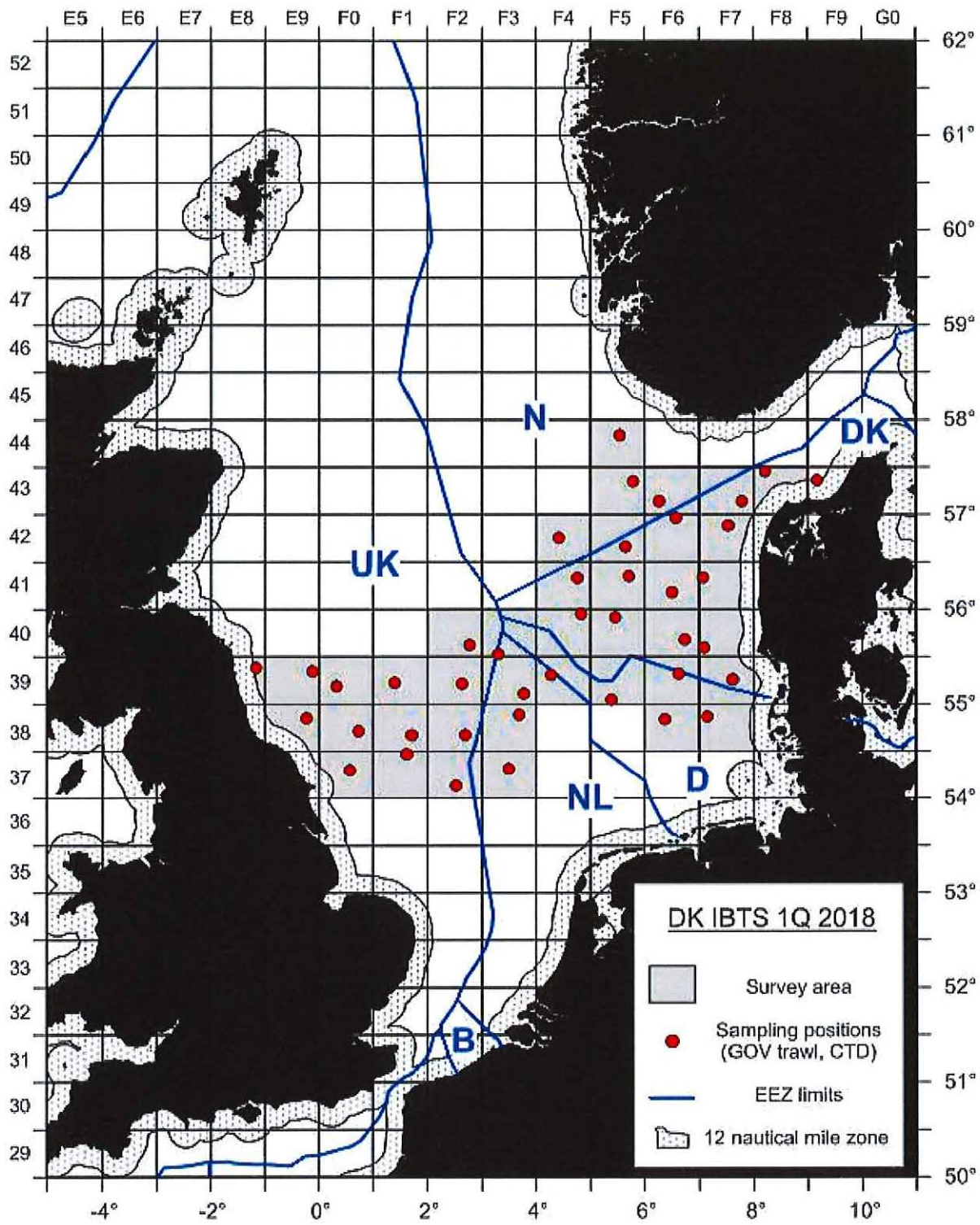


.....Linda Stuhr Christensen.....
(On behalf of the Principal Scientist)

Dated: 28/9/17

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.

Survey map:



Station list GOV:

StatRec	ShootLatDec	ShootLonDec	HaulLatDec	HaulLonDec	ShootLatDegMin	ShootLonDegMin	HaulLatDegMin	HaulLonDegMin
44F5	57.8355	5.5431	57.8081	5.5773	57° 50.13' N	5° 32.586' E	57° 48.486' N	5° 34.638' E
43F9	57.3613	9.1668	57.3708	9.1099	57° 21.678' N	9° 10.008' E	57° 22.248' N	9° 6.594' E
43F8	57.4541	8.2123	57.4735	8.2568	57° 27.246' N	8° 12.738' E	57° 28.41' N	8° 15.408' E
43F7	57.1395	7.7823	57.1392	7.7225	57° 8.37' N	7° 46.938' E	57° 8.352' N	7° 43.35' E
43F6	57.1402	6.2724	57.1606	6.2258	57° 8.412' N	6° 16.344' E	57° 9.636' N	6° 13.548' E
43F5	57.3513	5.7924	57.3610	5.7325	57° 21.078' N	5° 47.544' E	57° 2.166' N	5° 43.95' E
42F7	56.8846	7.5329	56.8541	7.5073	56° 53.076' N	7° 31.974' E	56° 51.246' N	7° 30.438' E
42F6	56.9631	6.5712	56.9606	6.5089	56° 57.786' N	6° 34.272' E	56° 57.636' N	6° 30.534' E
42F5	56.6632	5.6503	56.6449	5.6943	56° 39.792' N	5° 39.018' E	56° 38.694' N	5° 41.658' E
41F7	56.3369	7.0716	56.3071	7.0492	56° 20.214' N	7° 4.296' E	56° 18.426' N	7° 2.952' E
41F6	56.1806	6.5050	56.1827	6.5647	56° 10.836' N	6° 3.03' E	56° 10.962' N	6° 33.882' E
41F5	56.3528	5.7141	56.3724	5.7589	56° 21.168' N	5° 42.846' E	56° 22.344' N	5° 45.534' E
41F4	56.3328	4.7605	56.3292	4.8218	56° 19.968' N	4° 45.63' E	56° 19.752' N	4° 49.308' E
40F7	55.5972	7.0899	55.5640	7.0783	55° 35.832' N	7° 5.394' E	55° 3.384' N	7° 4.698' E
40F6	55.6823	6.7313	55.6745	6.7875	55° 40.938' N	6° 43.878' E	55° 40.47' N	6° 47.25' E
40F5	55.9164	5.4608	55.8976	5.5079	55° 54.984' N	5° 27.648' E	55° 53.856' N	5° 30.474' E
40F4	55.9523	4.8305	55.9199	4.8324	55° 57.138' N	4° 49.83' E	55° 55.194' N	4° 49.944' E
39F7	55.2596	7.6156	55.2717	7.5964	55° 15.576' N	7° 36.936' E	55° 16.302' N	7° 35.784' E
39F6	55.3198	6.6239	55.2862	6.6208	55° 19.188' N	6° 37.434' E	55° 17.172' N	6° 37.248' E
39F5	55.0475	5.3886	55.0669	5.4312	55° 2.85' N	5° 23.316' E	55° 4.014' N	5° 25.872' E
39F4	55.3084	4.2791	55.2863	4.2345	55° 18.504' N	4° 16.746' E	55° 17.178' N	4° 14.07' E
39F3	55.1117	3.7772	55.0871	3.7401	55° 6.702' N	3° 46.632' E	55° 5.226' N	3° 44.406' E
39F0	55.1891	0.3228	55.1710	0.3001	55° 11.346' N	0° 19.368' E	55° 1.026' N	0° 18.006' E
38F7	54.8683	7.1498	54.8749	7.1975	54° 52.098' N	7° 8.988' E	54° 52.494' N	7° 11.85' E
38F6	54.8412	6.3757	54.8241	6.4254	54° 50.472' N	6° 22.542' E	54° 49.446' N	6° 25.524' E
38F3	54.8884	3.6889	54.8582	3.6678	54° 53.304' N	3° 41.334' E	54° 51.492' N	3° 40.068' E
38F2	54.6732	2.6943	54.6408	2.6913	54° 40.392' N	2° 41.658' E	54° 38.448' N	2° 41.478' E
38F1	54.6729	1.7114	54.6441	1.6959	54° 40.374' N	1° 42.684' E	54° 38.646' N	1° 41.754' E
38F0	54.7156	0.7321	54.7166	0.6761	54° 42.936' N	0° 43.926' E	54° 42.996' N	0° 40.566' E
37F3	54.3128	3.4948	54.2800	3.5022	54° 18.768' N	3° 29.688' E	54° 0.168' N	3° 30.132' E
37F2	54.1329	2.5223	54.1374	2.5775	54° 7.974' N	2° 31.338' E	54° 8.244' N	2° 34.65' E
37F1	54.4703	1.6190	54.4501	1.6642	54° 28.218' N	1° 3.714' E	54° 27.006' N	1° 39.852' E
37F0	54.2975	0.5687	54.2715	0.6052	54° 17.85' N	0° 34.122' E	54° 16.29' N	0° 36.312' E
39E9	55.3456	-0.1167	55.3375	-0.1531	55° 20.736' N	0° 7.002' W	55° 20.25' N	0° 9.186' W
38E9	54.8518	-0.2294	54.8363	-0.2810	54° 51.108' N	0° 13.764' W	54° 50.178' N	0° 1.686' W
39E8	55.3833	-1.1662	55.3543	-1.1387	55° 22.998' N	1° 9.972' W	55° 21.258' N	1° 8.322' W
42F4	56.7545	4.4190	56.7698	4.4722	56° 45.27' N	4° 2.514' E	56° 46.188' N	4° 28.332' E
40F2	55.6243	2.7705	55.6463	2.7681	55° 37.458' N	2° 46.23' E	55° 38.778' N	2° 46.086' E
40F3	55.5270	3.3007	55.5588	3.2861	55° 3.162' N	3° 18.042' E	55° 33.528' N	3° 17.166' E
39F1	55.2269	1.4011	55.2593	1.4227	55° 13.614' N	1° 24.066' E	55° 15.558' N	1° 25.362' E
39F2	55.2163	2.6333	55.2141	2.5744	55° 12.978' N	2° 37.998' E	55° 12.846' N	2° 34.464' E