United Kingdom

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

A. GENERAL

1.	**NAME OF RESEARCH SHIP**	Salling	**CRUISE NO.** Sandeel - 2015
2.	**DATES OF CRUISE**	**FROM** 15/11-2015	**TO** 20/12-2015
3.	**OPERATING AUTHORITY**	DTU Aqua (National Institute for Aquatic Resources) Jægersborg Allé 1 2920 Charlottenlund Denmark E-mail: aqua@aqua.dtu.dk	
4.	**OWNER** (**if different for para.3**)	Ejvind Rom Vesterhavsgade 92 7680 Thyborøn Denmark Charlottenlund Castle, DK-2920 Charlottenlund	
5.	**PARTICULARS OF SHIP**	**NAME**	Salling
		NATIONALITY	Danish
		OVERALL LENGTH (metres)	40.64
		MAXIMUM DRAUGHT (metres)	7.2
		NET TONNAGE	118t
		METHOD OF PROPULSION	MAN Diesel kW 786
		CALL SIGN	OUIG2
		REGISTERED PORT & NUMBER (if reg. fishing vessel)	Esbjerg
6.	**CREW**	**NAME OF MASTER**	Niels Erik Jessen
		NUMBER OF CREW	5
7.	**SCIENTIFIC PERSONNEL**	**NAME AND ADDRESS OF SCIENTIST IN CHARGE**	Hans Olesen DTU Aqua Jærgersborg Allé 1 2920 Charlottenlund Denmark
		TEL NO Dir./ FAX NO	**+45 2115 4253 / +45 35 88 33 33**
		NUMBER OF SCIENTISTS	1 (Dirk Thijssen)

8. **GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE** (with reference in Latitude and Longitude):
   52º N - 58º N , 0º E – 8º E

9. **BRIEF DESCRIPTION OF PURPOSE OF CRUISE**:
   The purpose of the sand eel dredge survey is to collect sand eels buried in the seabed using a modified mussel dredge and compare catches (number and age composition) with the previous year's collections to assess the 2015 year class strength of sand eel in the different areas adopted by ICES in 2009. Data from the dredge survey is the basis for calculating an index, which will be used in the stock assessment.

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** Salling **CRUISE NO.** Sandeel - 2015

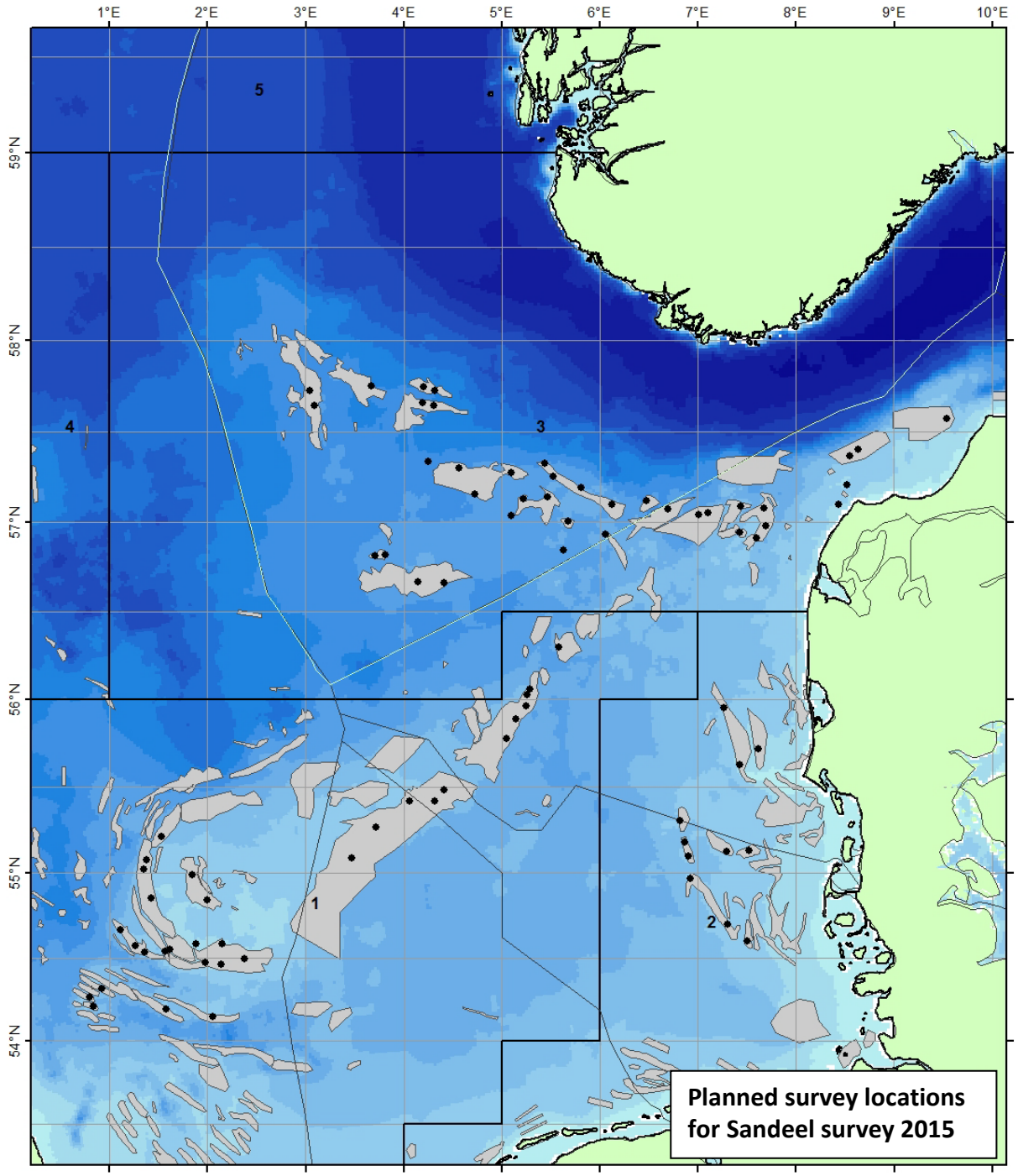
2. **DATES OF CRUISE** **FROM** 15/11-2015 **TO** 20/12-2015

3. **PURPOSE OF RESEARCH AND GENERAL OPERATIONAL METHODE**

To collect catch samples of sandeels to estimate local aboundance and distribution pattern of sandeels in different age groups which is used to calculate an index used in the sandeel assessment work.

Sediment sampling at each sampling/fishing position with Van Veen grab

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.:**



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:**

Sandeel/ max. 500kg

Sediment samples

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

Fishing with modified mussel dredge that collect sandeels from the upper 20 cm of the seabed.

Van Veen 0.1 m2 grab + Van Veen 0.2 m2 grab

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.):**

Modified mussel dredge.

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:

The Sandeel survey has been executed since 2006 to estimate the strength of the new year class of sandeel in the North Sea

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

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:

John Cotter

CEFAS

UK

10. STATE:

(a) WHETHER <u>VISITS TO THE SHIP</u> 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:

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: 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**
Echo sounding	no	yes	no	no	no	yes
Van Veen grab	no	yes	no	no	no	yes
Modified mussel dredge	no	yes	no	no	no	yes

…… …… **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.