GB

Application for Consent to conduct
Marine Scientific Research

Date: xx June, 2019

1. General Information

1.1 Cruise name and/or number:
FRV Dana Cruise No. 01/2020

1.2 Sponsoring Institution(s):	
Name:	Thuenen-Institute of Sea Fisheries
Address:	Herwigstr. 31, 27572 Bremerhaven, Germany
Name of Director:	Dr. Gerd Kraus

1.3 Scientist in charge of the Project:	
Name:	Dr. Matthias Kloppmann
Country:	Germany
Affiliation:	Thuenen-Institute of Sea Fisheries
Address:	Herwigstr. 31, 25752 Bremerhaven
Telephone:	+49 471 94460 367
Fax:	+49 471 94460 199
Email:	matthias.kloppmann@thuenen.de
Website (for CV and photo):	www.thuenen.de/en/starteseite/institutes/sea-fisheries.html

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Finlay Burns
Affiliation:	Marine Scotland
Address:	375 Victoria Road, Aberdeen AB11 9DB
Telephone:	+44 1 224295 376
Fax:	
Email:	burnsf@marlab.ac.uk
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:
Participation in the ICES coordinated International Bottom Trawl Survey (IBTS) 2020 of the first quarter (Q1) in the North Sea

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:
International Bottom Trawl Survey, Q1, in the North Sea, coordinated by ICES

2.3 Relevant previous or future research projects:
Cruise is part of a standard series coordinated by ICES since mid-1960's

2.4 Previous publications relating to the project:
All data are stored at ICES DATRAS and published in the framework of reports of the respective ICES working group: e.g. ICES. 2018. Report of the International Bottom Trawl Survey Working Group (IBTSWG), 19 - 23 March 2018, Oranmore, Ireland. ICES CM 2018/EOSG:01. 233 pp.

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.
Central and northern North Sea between 54° N to61° N, particularly in those rectangles assigned to Germany by ICES (see attached map) with 1- 2 CTD and fishery haul, and 2 - 4 plankton tows per each ICES rectangle. There is no particularly specified cruise track or fixed station schedule planned for the survey. All station positions as well as their consecutive order will be planned during the cruise and randomly selected, only depending on the prevailing weather. See map below and attached Excel sheet for possible trawl positions in each rectangle where sampling is planned.

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	Dana
Type/Class:	Fisheries Research Vessel (+100A5E2)
Nationality (Flag State):	Denmark
Identification Number (IMO/Lloyds No.):	7912680
Owner:	Denmark
Operator:	DTU Aqua (National Institute of Aquatic Resources Kemitorvet, Building 202, DK-2800 Kgs. Lyngby
Overall length (meters):	78,43
Maximum draught:	6.30
Displacement/Gross Tonnage:	2483 BRZ
Propulsion:	Diesel
Cruising & maximum speed:	11 Kn / 14 Kn
Call sign:	OXBH
INMARSAT number and method and capability of communication (including emergency frequencies):	Inmarsat Fleet Broadband +871 32 19 384 20 UKW channel 16
Name of Master:	Jesper Sandager or deputy
Number of Crew:	20
Number of Scientists on board:	10 - 12

4.2 Particulars of Aircraft*: none*	
Name:	
Make/Model:	

Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication (including emergency frequencies):	
Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV): *none*	
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication (including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:
none

4.5 Particulars of methods, full description of scientific instruments to be used(for fishing gear specify type and dimension) and location			
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Fishery	Bottom Trawling	GOV	yes
Fish larvae	Plankton catches	2 m pelagic ring trawl	yes
water	CTD casts and bottles	Seabird SBE 19	yes

4.6 Indicate nature and quantity of substances to be released into the marine environment:
none

4.7 Indicate whether drilling will be carried out. If yes, please specify:
no

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name, Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of Detonation, and position in latitude and longitude:

no

5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):
none

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:
First entry: 08/01/2020 Final departure: 09/02/2020
6.2 Indicate if multiple entries are expected:
yes

7. Port Calls

7.1 Dates and Names of intended ports of call:
Around 24 January 2020 in either Aberdeen, Kirkwall or Lerwick for crew exchange

7.2 Any special logistical requirements at ports of call:
none

7.3 Name/Address/Telephone of shipping agent (if available):

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research Project:
Observers of coastal state are welcome provided the availability of accommodation space

8.2 Proposed dates and ports for embarkation/disembarkation:
Esbjerg 08/01/2020, Aberdeen, Kirkwall or Lerwick 24/01/2020 and Hirtshals 09/02/2020,

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include The expected dates of submission of the data and research results:
Generally, all data will be uploaded to ICES DATRAS for further treatment about 4 weeks after the cruise. *Furthermore:* *1. Cruise summary report through official channels; English summary will be available about 4 weeks after the trip from the BSH website server:* http://seadata.bsh.de/csr/retrieve/dod_index.html

2. Short report latest by end of March 2020 *3. ICES IBTS Working Group Report, end of May 2020*

9.2 Anticipated dates of submission to the coastal State of the final report:
End March 2020

9.3 Proposed means for access by coastal State to data (including format) and samples:
The official ICES data portals (DATRAS and oceanography portal) http://www.ices.dk/marine-data/data-portals/Pages/DATRAS.aspx http://www.ices.dk/marine-data/data-portals/Pages/ocean.aspx

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:
Data will be available through ICES, cruise reports through official channels

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:
By direct communication

9.6 Proposed means of making results internationally available:
Results are internationally available through ICES http://www.ices.dk/Pages/default.aspx

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or pending):
Norway, the Netherlands, and Germany

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:
Excel sheet and map with possible trawl positions in ICES rectangles where sampling is planned

Signature: 

Contact information of the focal point:
Name: Matthias Kloppmann
Country: Germany
Affiliation: Thuenen Institute of Sea Fisheries
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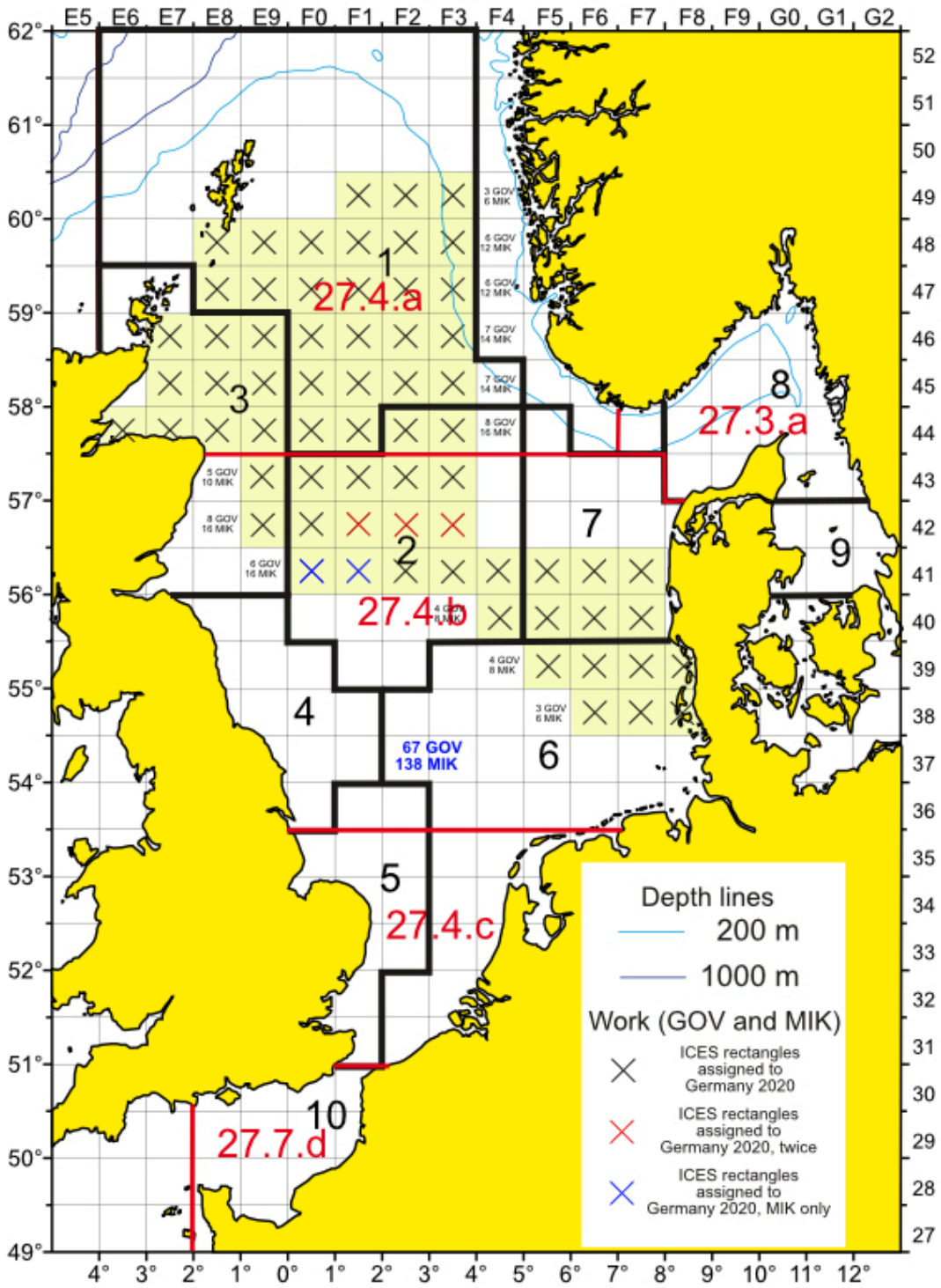
Fax: +49 471 94460 199
Email: matthias.kloppmann@thuenen.de

IBTS 2020(I)

Survey plan for the German participation in the IBTS Q1, Dana 01/2020, 08/01 – 09/02/2020):



IBTS 2020(I)

Possible Trawl tracks in British waters in ICES rectangles assigned to RV Dana during German IBTS. Different colour codes refer to the countries that have conducted the trawls previously. From all of those tracks at least one is selected randomly per each ICES rectangle during the proposed research cruise