

NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: **wk. 31-37**
2. DATES OF CRUISE FROM **30-07-2018** TO **14-09-2018**
3. OPERATING AUTHORITY **Ministry of transport & public works
Rijkswaterstaat Dienst Noordzee
Postbus 5807, 2280 HV Rijswijk**

TELEPHONE **+31 (0)70 - 3366 303** TELEX

FACSIMILE
4. OWNER
(If different from
Para 3)
5. PARTICULARS OF SHIP

<u>NAME</u>	TRIDENS
<u>NATIONALITY</u>	Dutch
<u>OVERALL LENGTH</u>	73,5 METRES
<u>MAXIMUM DRAUGHT</u>	5,20 METRES
<u>NETT TONNAGE</u>	659
<u>POPULSION</u>	DIESEL
<u>CALL SIGN</u>	PBVO
<u>REGISTRATION PORT & NUMBER</u> (if registered fishing vessel)	
6. CREW

<u>NAME OF MASTER</u>	K. Reichgeld
<u>NUMBER OF CREW</u>	21
7. SCIENTIFIC PERSONNEL

<u>NAME AND ADDRESS OF SCIENTIST IN CHARGE</u>	I.J. de Boois IMARES P.O. Box 68, IJmuiden
<u>TEL/FAX NO</u>	0317-487070/0317-487326
<u>NO: OF SCIENTISTS</u>	6
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)
Southern and Central North Sea: 51°N to 61°N, 4°W to 8.30'E.
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: **To participate in the ICES coordinated Beam Trawl Survey, to obtain a fishery-independent estimate of the intensity of the most common age-groups of plaice and sole in the North Sea (Stock assessment) and information on the distribution of demersal fish and macro-zoobenthos in the North Sea**
10. DATES AND NAMES OF INTEND PORTS OF CALL: **Helgoland or Esbjerg in week 32/33; Aberdeen, and an English port (Sunderland, Newcastle) for weeks 34-37; in case the survey order has to be re-arranged of bad weather Danish or Norwegian port**

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL:

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: **wk. 34-37**
2. DATES OF CRUISE FROM **30-07-2018** TO **14-09-2018**
3. a) PURPOSE OF RESEARCH *This survey aims at estimating the recruitment of a number of commercial fish species, such as plaice, sole, cod, dab, turbot, brill, lemon sole. Also benthos will be collected to study biodiversity. During the survey also hydrographical data are collected by using Seabird CTD downcasts.*
 b) GENERAL OPERATIONAL METHODS (including full description of any fishing geartrawl type, mesh size etc.)
In each ICES rectangle visited one or more hauls (30 minutes) will be made with or an 8 m beam trawl (40 mm mesh) and a 2 m beam trawl (4 mm mesh). Before or after each haul a profile will be made with a CTD-Sonde. On approx. 12 separate locations a boxcorer will take core samples of the seabed (6 samples per location). The cores will be incubated on board and subjected to different treatments to measure effects on biogeochemical cycling. This work will carried out by Justin Tiano (PhD student NIOZ) as part of the "Impact Assessment of Pulse trawling" (Project leader Edward Schram, WMR)
4. ATTACH CHART showing (on an appropriate scale) the geographical area of the intended work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished: see below
5. a) TYPES OF SAMPLES REQUIRED eg Geological/Water/Plankton/Fish/Radionuclide:
Fish, benthos and hydrographic samples
 b) METHODS OF OBTAINING SAMPLES (eg dredging/coring/drilling/fishing etc)
 (When using fishing gear indicate fish stocks being worked, quantity of each species require, quantity of fish to be retained on board)
fish samples: 8 m beam trawl, approx. 150 hauls
benthos samples: 8 m beam trawl (approx. 150 hauls) and 2 m beam (approx. 15 hauls)
water samples: CTD probe (approx. 150 stations)
Sediment cores: Boxcorer (approx. total of 72 cores)
6. DETAILS OF MOORED EQUIPMENT: **none**

DATES

<u>Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
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7. ANY HAZERDOUS MATERIAL: (Chemicals/Explosives/Gases/Radioactive etc.)

(Use separate sheet if necessary)

- a) TYPE AND TRADE NAME
- b) CHEMICAL CONTENT (& Formula)
- c) IMO IMDG CODE Reference & UN Number
- d) QUANTITY & METHOD 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. DETAIL & REFERENCE OF:

a) ANY RELEVANT PREVIOUS/FUTURE CRUISES:
The beam trawl survey started in 1985.

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE:
Each year the results of the survey are published by ICES as: "Report of the Working Group on Beam Trawl Surveys (WGBEAM)". See www.ices.dk

9. NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE:

Mr. J. Dalskov
Danmarks Fiskeri-og
Havundersøgelser
Nordsøcentret
Box 101
Denmark

Mr. I. Holmes
CEFAS
Lowesoft NR33 OHT
Suffolk
England

Mr. A. Newton
Marine Laboratory
Victoria Road
Aberdeen AB9 8DB
Scotland

Dr. C. Stransky
Tünen Institut
Palmaille 9
2000 Hamburg 50
Germany

Mr. O. Smedstad
Institute of Marine Research
P.O. Box 1870/72, Nordnes
5024 Bergen
Norway

10. STATE:

a) WHETHER VISITS TO THE SHIP IN PORT BY SCIENTISTS OF THE COASTAL STATE CONCERNED WILL BE ACCEPTABLE

YES

b) PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND THE PORTS FOR EMBARKATION/DISEMBARKATION

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

Data of the fish trawls will be submitted to the DATRAS Database (datras.ices.dk), hydrographical data will be submitted to the hydrographical database ocean.ices.dk, both hosted by the ICES-secretariat in Copenhagen, from where the information is available to all participating countries.

PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE

United Kingdom, Denmark,
Norway, Germany

COMPLETE THE FOLLOWING TABLE -
SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL

DATES

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION	DISTANCE FROM COAST						
	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARCH WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	WITHIN 3 NMS	WITHIN 12 NMS	BETWEEN 12-200NM	(CONTINENTA L SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN CONTINENTAL MARGIN
eg: MAGNETOMETRY GRAVITY DIVING SEISMICS BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING WATER SAMPLING U/W T.V. INSTRUMENTS TOWED INSTRUMENTS	(water column using vertical CTD, Sediment photography using SPI camera)						
	YES	YES	NO	NO	YES	YES	NO

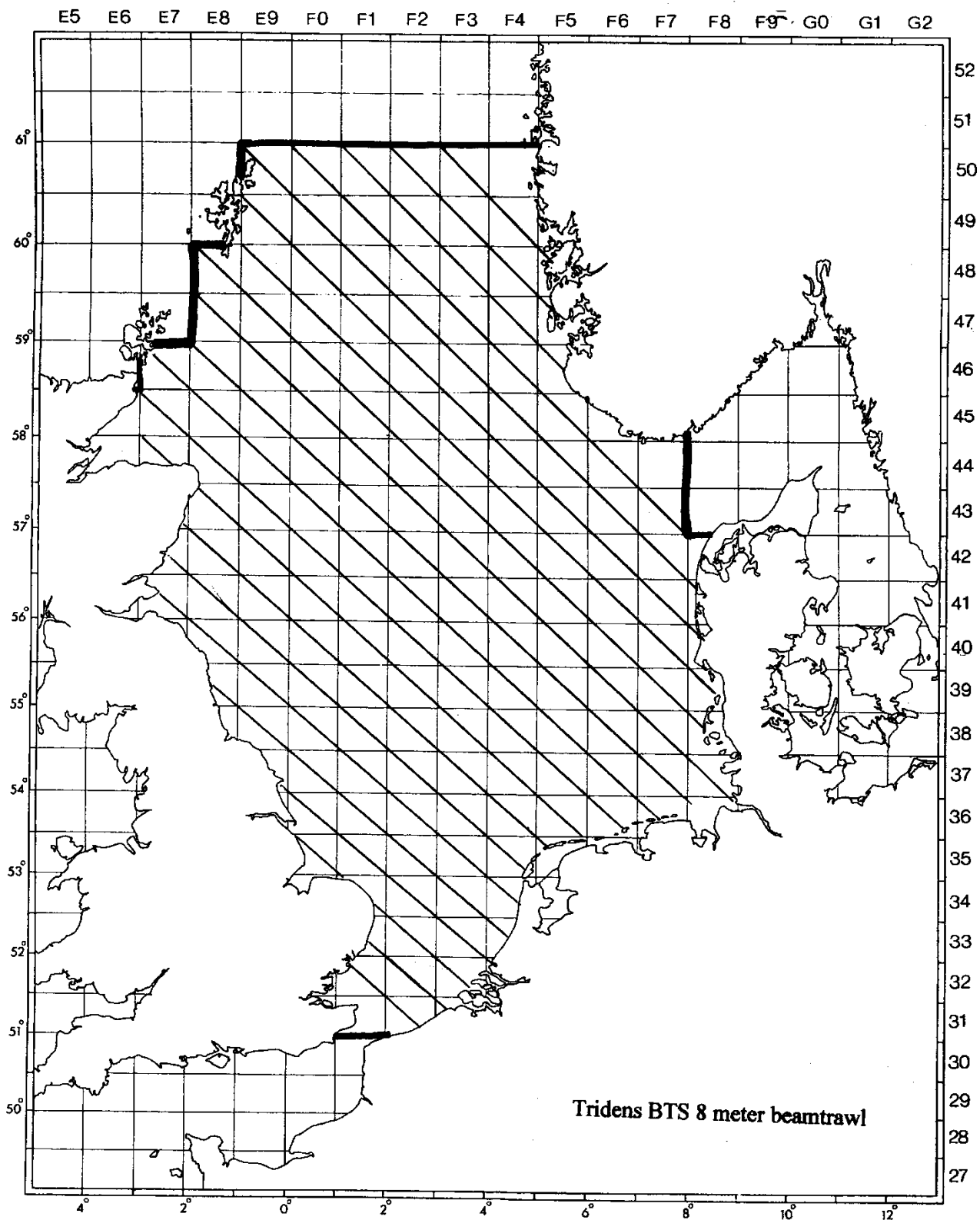


Lydia Cornelissen
(On behalf to the Principal Scientist)

Dated **16-01-2018**

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.

Area covered by Beam trawl survey



Example of hauls taken during 2016 beam trawl survey (red=1 station per ICES rectangle, black=2-4 stations per ICES rectangle)

