

NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: Tridens CRUISE NO: wk.4 t/m 7
2. DATES OF CRUISE FROM 23-1-2017 TO 24-2-2017
3. OPERATING AUTHORITY Ministry of infrastructure and environment  
Rijkswaterstaat Dienst Noordzee  
Postbus 5807, 2280 HV Rijswijk  
  
TELEPHONE +31 (0)70 - 3366 303 TELEX  
  
FACSIMILE
4. OWNER
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 &amp; 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>	R. van Hal IMARES P.O. Box 68, IJmuiden
<u>TEL/FAX NO</u>	0317-487088/0317-487326
<u>NO: OF SCIENTISTS</u>	7
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)  
Southern and Central North Sea (South of 57°N)
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: To participate in the ICES coordinated International Bottom Trawl Survey
10. DATES AND NAMES OF INTEND PORTS OF CALL:  
UK: Edinburg or Newcastle (4-5 February 2017), in case of major changes due to weather another English port;

Germany: Depending on weather conditions or malfunctioning of the vessel: Hamburg or Bremen

Denmark: Depending on weather conditions or malfunctioning of the vessel: Esjberg.

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. 4t/m 7

2. DATES OF CRUISE FROM 23-1-2017 TO 24-2-2017

3. a) PURPOSE OF RESEARCH *The IBTS is designed to acquire recruitment indices and tuning data for several finfish species. The recruitment indices are used in ICES assessment working groups (herring, North Sea demersal fish, mackerel) and ACOM. Data on spatial and temporal distribution of fish species are used for ecosystem studies. Furthermore to obtain hydrographical data (CTD-stations).*

b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear/rawl type, mesh size etc.)  
*In each ICES-rectangle visited a haul will be made with a GOV- Bottom trawl (Grand Ouverture Verticale) with 20 mm cod-end;*

*In each ICES-rectangle visited, two hauls with a MIK- plankton net (Method Isaac Kitt) will be made;*

*At each station a downcast with a Seabird- CTD-sonde for hydrographical data will be made.*

*During the cruise water samples will be taken.*

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:

5. a) TYPES OF SAMPLES REQUIRED eg Geological/Water/Plankton/Fish/Radionuclide:

*Fish and benthos samples (GOV) for analysing the fish and benthos community  
Plankton samples (MIK) for analysing herring larvae.  
Water 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)

*Each GOV station will be fish for 30 minutes with the semi-pelagic GOV bottom trawl.*

*Each MIK station consists of an oblique vertical pelagic haul.*

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 HAZEROUS 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:

*Yearly, since 1965*

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE:

*Reports of ICES International Bottom Trawl Survey Working Group (IBTSWG).*

*Data is used in many assessments and ecological studies of fish species and -communities.*

*See [www.ices.dk](http://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:

*Staff members of the Fisheries Laboratories at Lowestoft (UK, CEFAS), Aberdeen (UK, Marine Scotland), Boulogne sur Mer (F, Ifremer), Hamburg (G, vTI-SF) and Charlottenlund (DM, DTU-aqua).*

*Mr. Jim Ellis  
CEFAS  
Victoria Road  
Suffolk  
England*

*Mr. Yves Verin  
IFREMER  
150, Quai Gambetta  
Boulogne-sur-Mer  
France*

*Mrs. Anne Sell  
Johann Heinrich von Thünen-Institute  
Palmaille 9  
Hamburg  
Germany*

*Mr. Kai Ulrich Wieland  
DTU Aqua  
Science Park  
Hirtshals  
Denmark*

*Mr. Finlay Burns  
Marine Scotland  
375 Victoria Road  
Aberdeen  
Scotland*

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

YES

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

*Data will be submitted to the Database at the ICES-secretariat in Copenhagen, where they are available to all participating countries.*

## PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE

UK

COMPLETE THE FOLLOWING TABLE -  
SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL Edinburg or NewCastle,  
possibly other port  
DATES 4-5 February 2017

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							
GOV bottom trawl	yes	yes	yes	no	no	yes	yes/no
MIK- Plankton sampler	yes	yes	Yes	no	yes	yes	no
CTD-recorder	yes	yes	Yes	no	yes	yes	no

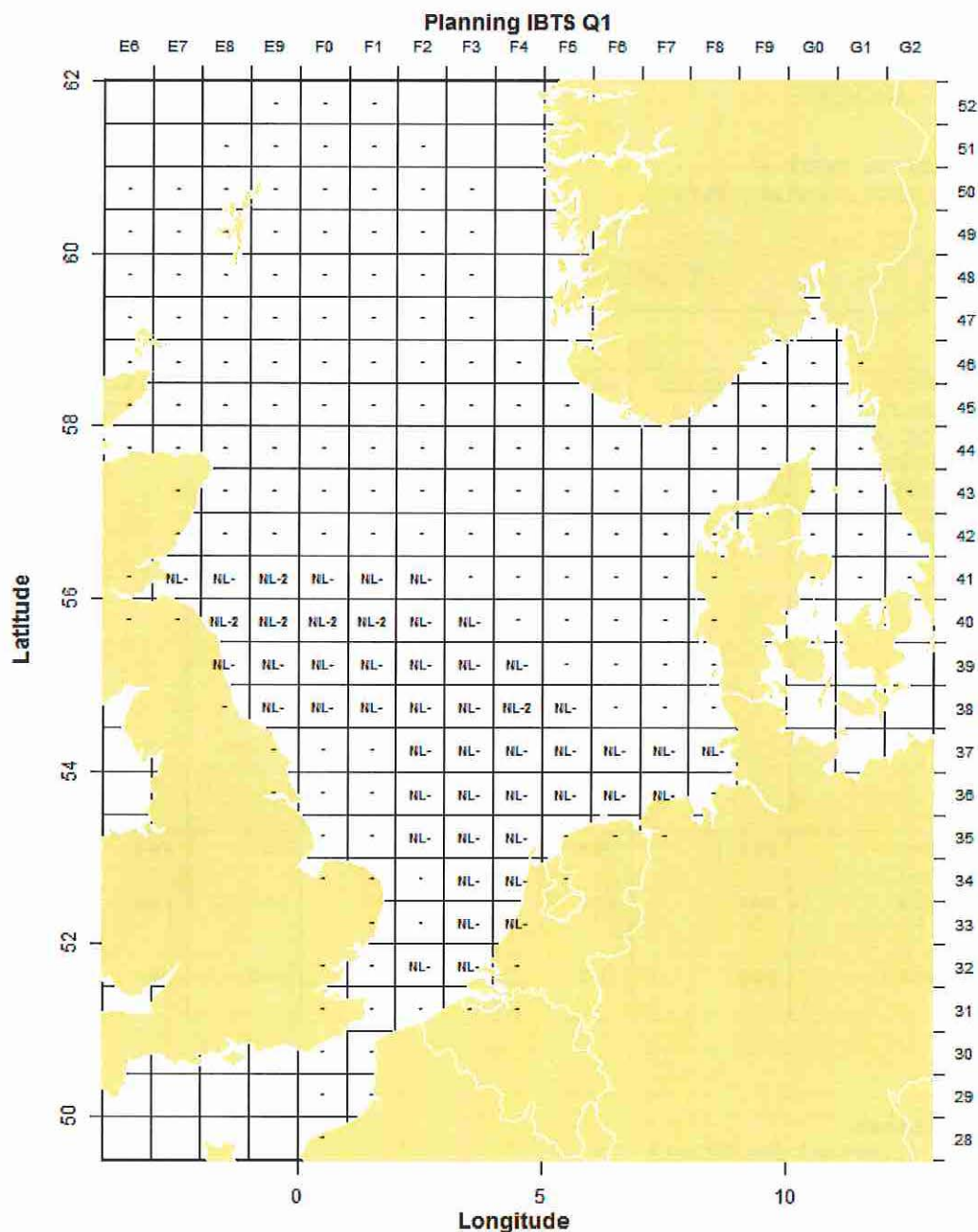
**A.J. Cornelissen**

(On behalf to the Principal Scientist)

Dated 5<sup>th</sup> of August 2016

NB IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS  
FORM HAS BEEN SUBMITTED THE COASTAL STAE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY.





The exact trawl locations are unknown prior to the activities, these are determined based on the local weather conditions and nautical restriction in place at time. The guideline states GOV hauls and MIK hauls have to be done by rectangle. Each rectangle including NL-: one GOV haul and two MIK hauls, NL-2: two GOV hauls and four MIK hauls.