

NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: *TRIDENS* CRUISE NO: *wk. 12 - 15*

2. DATES OF CRUISE FROM 16th of March 2020 - 10th of April 2020

3. OPERATING AUTHORITY

J.W. Groen
Head of Department Midden
Rijkswaterstaat Dienst Noordzee / RijksRederij
Visitors adress: Lange Kleiweg 34, 2288 GK Rijswijk
Postal adress: Postbus 5807, 2280 HV Rijswijk

TELEPHONE +31 70-3366303 TELEX 32040 Lavinl

FACSIMILE +31 70-3825648 E-MAIL Wim.Groen@rws.nl

4. OWNER
 (If different from
 Para 3)

5. PARTICULARS OF SHIP

NAME *TRIDENS*

NATIONALITY *Dutch*

OVERALL LENGTH 73.5 METRES

MAXIMUM DRAUGHT 5,20 METRES

NETT TONNAGE 659

POPULSION *DIESEL*

CALL SIGN *PBVO*

REGISTRATION PORT & NUMBER
 (if registered fishing vessel)

6. CREW

NAME OF MASTER *K. Reichgeld*

NUMBER OF CREW 21

7. SCIENTIFIC PERSONNEL

NAME AND ADDRESS OF *B. Couperus*
SCIENTIST IN CHARGE *Wageningen Marine Research*
P.O. Box 68, IJmuiden

TEL/FAX NO + 31 0317-487474/487326

NO: OF SCIENTISTS 6

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)
Western Approaches and West of Ireland, 51°N to 60°N, 5°W to 18°W.
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: *To participate in ICES coordinated
International Blue Whiting Survey*
10. DATES AND NAMES OF INTEND PORTS OF CALL: *Cork, Killybegs and/or Galway and/or
(Ireland), Stornoway or Kirkwall (United Kingdom)*
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL: *no*

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B : GENERAL

1. NAME OF RESEARCH SHIP: *TRIDENS* CRUISE NO: WK. 12-15
2. DATES OF CRUISE FROM 16th of March 2020 - 10th of April 2020
3. a) PURPOSE OF RESEARCH *Estimate the spawning stock abundance of Blue Whiting using acoustic methods.*

b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear/rawl type, mesh size etc:)
A pelagic trawl (5600 meshes), fitted out with an inner codend of 20 mm meshes, will be used for identifying the echotraces.

For the calibration the ship has to be anchored in a sheltered location, and the echosounder transducers will be calibrated by means of suspending small tungsten-carbide spheres inside the acoustic beams. Transducers will be mounted on a retractable drop keel. The entire calibration operation will take approximately 3 days. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments other than the echosounder and the CTD will be operated. Possible locations for calibration: St. Michael's Mount (Cornwall, UK), Bantry Bay (Ireland) and Loch Eriboll (Scotland, UK)
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:
Acoustic intensity measurements of fish densities.
Fish samples.
Watersamples for temperature and salinity observations.
Samples of zooplankton with WP2 net

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)
Simrad EK60/80 & ME70 echosounders, pelagic trawl (5600 meshes), Seabird CTD device, WP2 zooplankton net

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) *none*

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:

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

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:

Dr. Maurice Clarke, Marine Institute, Ireland

Mr. Ciaran O'Donnell, Marine Institute, Ireland

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
Agreements will be made by Wageningen Marine Research/IJmuiden

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

PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE *United Kingdom/Scotland*COMPLETE THE FOLLOWING TABLE -
SEPERATE PAGE FOR EACH COASTAL STATEPORT CALL *Stornoway or Kirkwall*DATES 16th of March - 10th of April 2020

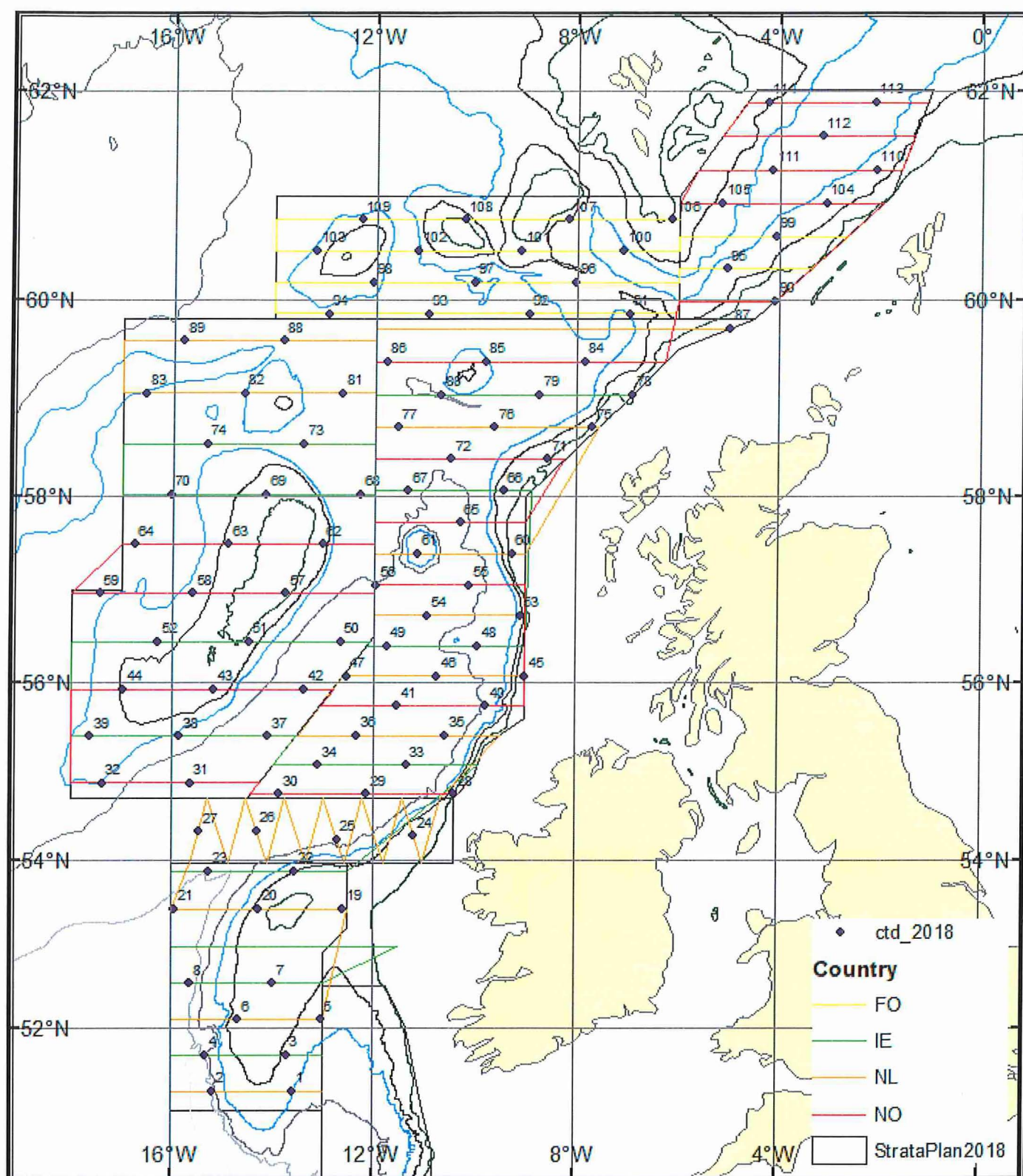
INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST			
				WITHIN 12 NMS	BETWEEN 12-200 NM	(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN	
eg: MAGNETOMETRY : GRAVITY DIVING : SEISMICS : BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V. : MOORED INSTRUMENTS : TOWED INSTRUMENTS	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 3-6 NMS
	YES	YES	NO	YES	YES	YES	NO

Lydia Cornelissen

(On behalf to the Principal Scientist)

Dated 18th of December 2019NB 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.



Hydro acoustic transects in the International Blue Whiting Survey in 2018. The exact transects in 2020 are not yet known, but will be very similar. Orange transects: Netherlands. The black dots represent the approximate positions of hydrographical (CTD) stations.

