NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

NAME OF RESEARCH SHIP: 1.

TRIDENS

CRUISE NO: wk. 26-29/15

2. DATES OF CRUISE FROM

22-06-2015

TO

17-7-2015

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 - 3366 303

TELEX

FACSIMILE

E-MAI1

Wim.Groen@rws.nl

(If different from Para 3)

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)

CREW

NAME OF MASTER

K. Reichgeld

NUMBER OF CREW

15

SCIENTIFIC PERSONNEL

NAME AND ADDRESS OF

S.M.M. Fässler

SCIENTIST IN CHARGE

IMARES (formely "Netherlands Inst. For Fish.

Research)

P.O. Box 68, IJmuiden

TEL/FAX NO

0317-480900/0317-487074

NO: OF SCIENTISTS

GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude) 52°00 - 62°00 N and 004°30 W - 008°30 E

BRIEF DESCRIPTION OF PURPOSE OF CRUISE: herring and sprat

10. DATES AND NAMES OF INTEND PORTS OF CALL:

North Sea hydro acoustic survey for

Aberdeen:

27-06-2015 - 29-06-2015

Aberdeen:

04-07-2015 - 06-07-2015

Newcastle:

11-07-2015 - 13-07-2015

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B : GENERAL

1. NAME OF RESEARCH SHIP: TRIDENS CRUISE NO: wk. 26-29/14

2. DATES OF CRUISE FROM 22-06-2015 TO 17-7-2015

- 3. a) PURPOSE OF RESEARCH To carry out an hydro acoustic survey monitoring the pelagic ecosystem and estimating the abundance of herring and sprat in the North Sea, in co-operation with the institutes of Norway, Scotland, Denmark and Germany.

 Calibration of the echosounder in a sheltered area, preferably in Scapa Flow, Orkneys 58°56′71 N 003°00′57 W, Loch Eriboll 58°30N 4°41W, or Stavanger fjord 59°05N 005°36.
 - b) GENERAL OPRATIONAL METHODS (including full description of any fishing geartrawl type, mesh size etc:)

 A pelagic trawl (2000 meshes), fitted out with an inner codend of 20 mm meshes, will be used for identifying the traces.

For the calibration the ship has to be anchored in a sheltered location, and all the EK80 echosounder transducers (18,38,70,120,200,333 kHz) and ME70 multibeam echosounder (operating from 70-120 kHz) will be calibrated with the aid of small copper spheres that are lowered below the keel of the ship. For the calibration the drop keel housing the echosounder transducers will be lowered ~3 meters below the ship keel. The entire operation will take approximately 16 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments other than the acoustic system and the CTD will be operated.

- 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: Chart included.
- 5. <u>a) TYPES OF SAMPLES REQUIRED</u> eg Geological/Water/Plankton/Fish/Radionuclide:

Samples of pelagic fishes for biological research will be retained on board. CTD profiles.

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)

Samples of pelagic fishes will be collected by fishing CTD profiles will be taken by lowering a CTD probe as deep as 5 m above the bottom.

6. DETAILS OF MOORED EQUIPMENT: none

DATES

Laying Recovery Description Depth Latitude Longitude

7. ANY HAZERDOUS MATERIAL: (Chemicals/Explosives/Gases/Raioactive 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

PART C: SCIENTIFIC EQUIPMENT

COMPLETE THE FOLLOWING TABLE - SEPERATE PAGE FOR EACH COASTAL STATE

COASTAL STATE United Kingdom/ Scotland /

PORT CALL

Aberdeen & Newcastle

DATES

22 June/17 July 2015

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST		
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 12 NMS	BETWEEN 12-200 NM	(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
	YES	YES	NO	YES	YES	YES

L. Cornelissen

(On behalf to the Principal Scientist)

Dated

12 January 2015

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.

Calibration of SIMRAD EK and ME echosounders on board RV "Tridens"

In June/July 2015 the RV Tridens will participate in the annual international herring acoustic survey in the North Sea. During this survey, the transducers of the SIMRAD EK80 and ME70 have to be calibrated, in order to make sure that the results of Tridens are comparable to those of other research vessels.

Calibration of this equipment, according to the manufacturer, has to take place in a sheltered area without currents, with water of about the same temperature and salinity as the water in the survey area, and a minimum depth of about 25 meters.

The calibration of the Tridens acoustic system is scheduled in week 26 (22 June - 26 June 2015) in Scapa Flow, Scotland, UK. However, the procedure may have to be conducted at another site (for example in Loch Eriboll, Scotland, UK) or another time during the survey depending on weather conditions.

The ship has to be anchored in a sheltered location, and the transducers in the drop keel will be calibrated with the aid of small tungsten carbide spheres that are lowered below the drop keel of the ship. For the calibration The entire operation will take approximately 16 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments than the echosounders transducers (operating at several frequencies between 18 and 333 kHz) and the CTD will be operated.

