



**WAGENINGEN UR**

*For quality of life*

Foreign Commonwealth Office UK/Scotland  
Aviation Maritime Department  
Fiona Mayle  
King Charles Street  
London SW 1A 2AH  
United Kingdom

**Wageningen IMARES**

DATUM

**19 februari 2009**

BEHANDELD DOOR

**Eis Hoeboer**

DOORKIESNUMMER

**(0317) 48 70 55**

E-MAIL

**Eis.Hoeboer@wur.nl**

Dear Mrs. Mayle,

Herewith I send you the forms for permission for our research vessel TRIDENS for research activities in waters governed by the jurisdiction of England.

It will be for the period of 29-06-2009 tot 24-07-2009 (wk. 27-30).

With kind regards,

Mw. E. Hoeboer

**Wageningen IMARES**

**Postbus 68**

**1970 AB IJmuiden**

BE/DEKADRES

**Haringkade 1**

**1976 CP IJmuiden**

TELEFOON

**(0317) 48 09 00**

FAX

**(0317) 48 73 26**

KVK

**34135929**

INTERNET

**[www.wageningenimares.wur.nl](http://www.wageningenimares.wur.nl)**

copy; J.W. Groen, dir. Visserijen

Wageningen UR (Wageningen  
Universiteit & Researchcentrum) is  
een samenwerkingsverband tussen  
DLQ, Wageningen Universiteit en  
Hogeschool Van Hall Larenstein



# NOTIFICATION OF PROPOSED RESEARCH

## PART A : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: **wk. 27-30/09**
2. DATES OF CRUISE FROM **29-06-2009** TO **24-07-2009**
3. OPERATING AUTHORITY **Ministry of Agriculture, Nature Management  
& Fisheries  
Bezuidenhoutseweg 73  
THE HAGUE**  
  

<u>TELEPHONE</u>	<b>070-3792349</b>	<u>TELEX</u>	<b>32040 Lavinl</b>
<u>FACSIMILE</u>	<b>070-3825648</b>	<u>E-MAIL</u>	<b>J.W.Groen@viss.agro.nl</b>
4. OWNER  
(If different from  
Para 3)
5. PARTICULARS OF SHIP

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

<u>NAME OF MASTER</u>	<b>K. Reichgeld</b>
<u>NUMBER OF CREW</u>	<b>15</b>
7. SCIENTIFIC PERSONNEL

<u>NAME AND ADDRESS OF SCIENTIST IN CHARGE</u>	<b>R. ter Hofstede Wageningen IMARES (formerly "Netherlands Inst. For Fish. Research) P.O. Box 68, IJmuiden</b>
<u>TEL/FAX NO</u>	<b>0317-480900/0317-487326</b>
<u>NO: OF SCIENTISTS</u>	<b>4</b>
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)  
**52°00 - 62°00 N and 004°30 W - 008°30 E**
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: **North Sea hydro acoustic survey for  
herring and sprat**
10. DATES AND NAMES OF INTEND PORTS OF CALL: **Aberdeen: 04-07-2009 - 06-07-2009  
Leith 18-07-2009 - 20-07-2009  
(or Danish port i.e. Esbjerg)**
11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL: **None**

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: wk. **27-30/09**

2. DATES OF CRUISE FROM **29-06-2009** TO **24-07-2009**

3. a) PURPOSE OF RESEARCH *To carry out an hydro acoustic survey defining 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 at Scapa Flow, Orkneys 58°56'71 N - 003°00'57 W, Stavanger fjord 59°05N - 005°36 (second choice) or Kristiansand harbour 58°08N - 007°59E (third choice).*

b) GENERAL OPERATIONAL 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 the 38 kHz transducer will be calibrated with the aid of a small copper sphere that is lowered below the keel of the ship. For the calibration of a second 38 kHz- and a 200 kHz transducer which is build in a towed body, the towed body (2,5 x 1 m; 300 kg; stainless steel) has be lowered a few meters below the surface. The entire operation will take approximately 8 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments than echosounder with the normal 38 kHz and 200 kHz transducer and the CTD will be operated.*

4. ATTACH CHART showing (on an appropriate scale) the geographical area of the intended work, positions od intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished: **Chart included.**

5. a) TYPES OF SAMPLES REQUIRED 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 the bottom.*

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/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

- 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:

*From 24-06-96 to 19-07-96: North Sea hydro acoustic survey*  
*From 16-06-97 to 18-07-97: North Sea hydro acoustic survey*  
*From 22-06-98 to 17-07-98: North Sea hydro acoustic survey*  
*From 21-06-99 to 16-07-99: North Sea hydro acoustic survey*  
*From 19-06-00 to 14-07-00: North Sea hydro acoustic survey*  
*From 25-06-01 to 20-07-01: North Sea hydro acoustic survey*  
*From 24-06-02 to 19-07-02: North Sea hydro acoustic survey*  
*From 28-06-04 to 21-07-04: North Sea hydro acoustic survey*  
*From 27-06-05 to 22-07-05: North Sea hydro acoustic survey*  
*From 26-06-06 to 21-07-06: North Sea hydro acoustic survey*  
*From 25-06-07 to 20-07-07: North Sea hydro acoustic survey*  
*From 23-06-08 to 17-07-08: North Sea hydro acoustic survey*

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

*ICES 2004. Report of the Planning Group for Herring Surveys. ICES CM 2004/G:05*  
*ICES 2005. Report of the Planning Group for Herring Surveys. ICES CM 2005/G:04*  
*ICES 2006. Report of the Planning Group for Herring Surveys. ICES CM 2006/LRC:04*  
*ICES 2007. Report of the Planning Group for Herring Surveys. ICES CM 2007/LRC:01*

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:

*R. Toresen, Inst. of Mar. Res., PO Box 1870 Nordnes, N-5024 Bergen, Norway*

*Paul Fernandes, FRS Mar. Lab., PO Box 101, Victoria Road, AB11 9DB Aberdeen, Scotland*

*Jens Ulleweit, Institut für Seefischerei (ISH) Bundesforschungsanstalt für Fischerei, Palmaille 9, D-22767 Hamburg, Germany*

*Karl-Johan Staehr, Danish Institute for Fisheries Research (DTU Aqua - former DIFRES), North Sea Centre, P.O.Box 101, DK-9850 Hirtshals, Denmark*

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

***Cruise report within two months after the survey.***

## PART C: SCIENTIFIC EQUIPMENT

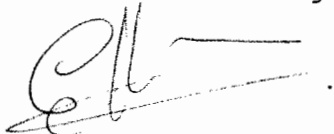
COASTAL STATE United Kingdom/  
Scotland /COMPLETE THE FOLLOWING TABLE -  
SEPERATE PAGE FOR EACH COASTAL STATEPORT CALL Aberdeen / LeithDATES 29-06-2009 - 24-

07-2009

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				
	YES	YES	NO	YES	YES	YES	

E.C. Hoeboer-van Wooning



(On behalf to the Principal Scientist)

Dated **16 February 2009**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.

## PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE

Norway

COMPLETE THE FOLLOWING TABLE -  
SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL (possible  
calibration of echosounders in the vicinity of  
Kristiansand or Stavanger harbour see part B)

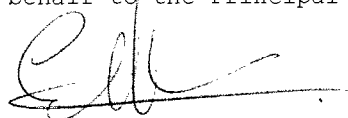
DATES 30 June/01 July 2009

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				
	YES	YES	NO	YES	YES	YES	

E.C. Hoeboer-van Wooning

(On behalf to the Principal Scientist)



Dated 16 February 2009

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PART C: SCIENTIFIC EQUIPMENT

COMPLETE THE FOLLOWING TABLE -  
SEPERATE PAGE FOR EACH COASTAL STATE

COASTAL STATE **Denmark**

PORT CALL (possibly) **Esbjerg**

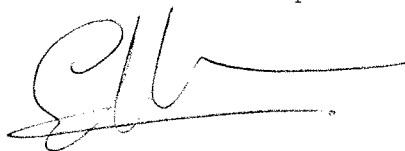
DATES 18 July - 20 July 2009

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				
	YES	YES	NO	YES	YES	YES	

**E.C. Hoeboer-van Wooning**

(On behalf to the Principal Scientist)



Dated **16 February 2009**

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.

## PART C: SCIENTIFIC EQUIPMENT

COMPLETE THE FOLLOWING TABLE -  
SEPERATE PAGE FOR EACH COASTAL STATE

COASTAL STATE **Germany**PORT CALL **no**DATES

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				
	YES	YES	NO	YES	YES	YES	

**E.C. Hoeboer-van Wooning**

(On behalf to the Principal Scientist)


Dated **16 February 2009**

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.

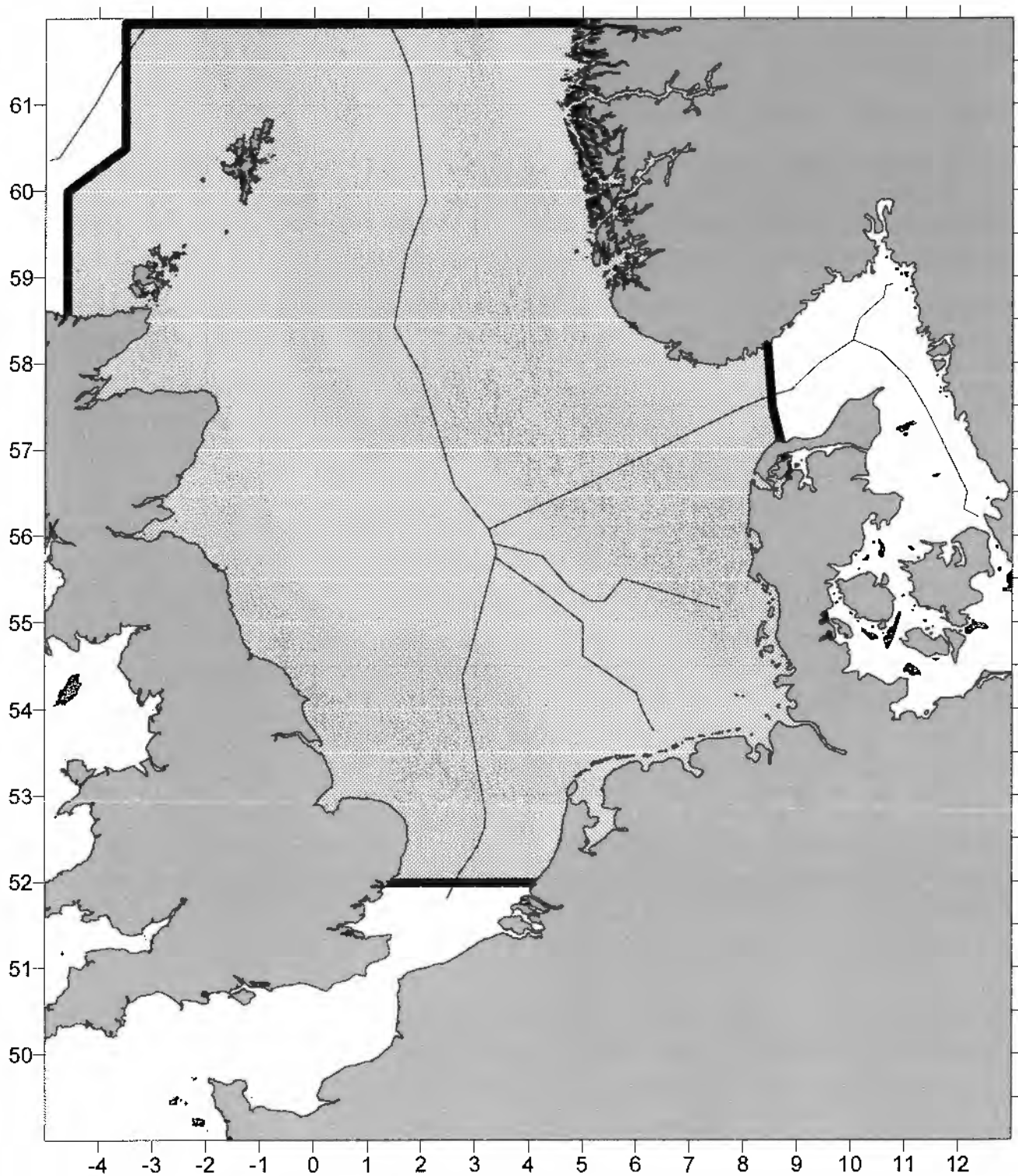
### Calibration of SIMRAD EK-60 echo sounder on board RV "Tridens"

In June/July 2009 the RV Tridens will participate in the annual international herring echo survey in the North Sea. During this survey, the transducers of the SIMRAD EK-60 has 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 27 (29 June -3 July 2009) near Scapa Flow, Orkneys, Scotland. However, the procedure may have to be conducted at another site, preferably in Stavanger fjord, Norway another time during the survey depending on weather conditions.

The ship has to be anchored in a sheltered location, and the hull-mounted 38 kHz transducer will be calibrated with the aid of a small copper sphere that is lowered below the keel of the ship. For the calibration of a second 38 kHz transducer and a 200 kHz transducer which are build in a towed body, the towed body (2,5 x 1 m; 300 kg; stainless steel) has be lowered at the site a few meters below the surface. The entire operation will take approximately 6 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments than the echosounder with the normal 38 KHz and 200 kHz transducers and the CTD will be operated.



North Sea acoustic survey for herring, TRIDENS 29 June – 27 July 2009  
The outer border of the survey area is indicated in black.