

NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: **wk. 26-29/06**
2. DATES OF CRUISE FROM **26-06-2006** TO **21-07-2006**
3. OPERATING AUTHORITY **Ministry of Agriculture, Nature Management
& Fisheries
Bezuidenhoutseweg 73
THE HAGUE**
- TELEPHONE **070-3792349** TELEX **32040 Lavinl**
- FACSIMILE **070-3825648** E-MAIL **J.W.Groen@viss.agro.nl**
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 |
- REGISTRATION PORT & NUMBER
(if registered fishing vessel)
6. CREW
- | | |
|-----------------------|-------------------|
| <u>NAME OF MASTER</u> | A. Hofland |
| <u>NUMBER OF CREW</u> | 15 |
7. SCIENTIFIC PERSONNEL
- | | |
|--|--|
| <u>NAME AND ADDRESS OF
SCIENTIST IN CHARGE</u> | H. Heessen
Neth. Inst. for Fish. Research
P.O. Box 68, IJmuiden |
| <u>TEL/FAX NO</u> | + 31 255 564646/564644 |
| <u>NO: OF SCIENTISTS</u> | 4 |
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)
52°00 - 62°00 N and 004°30 W - 008°00 E
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: **Herring echo survey**
10. DATES AND NAMES OF INTEND PORTS OF CALL: **Aberdeen: 01-07-2006 - 02-07-2006**
Leith 15-07-2006 - 16-07-2006
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. **26-29/06**

2. DATES OF CRUISE FROM **26-06-2006** TO **21-07-2006**

3. a) PURPOSE OF RESEARCH *To carry out an hydro acoustic survey defining the abundance of herring in the western part of 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 (8°56'71 N - 003°00'57 W).*

b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear/trawl 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 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 not take more than 6 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments than the normal 38 kHz echosounder 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. 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 24-6-96 to 19-7-96: Herring echo survey
From 16-6-97 to 18-7-97: Herring echo survey
From 22-6-98 to 17-7-98: Herring echo survey
From 21-6-99 to 16-7-99: Herring echo survey
From 19-6-00 to 14-7-00: Herring echo survey
From 25-06-01 to 20-07-01: Herring echo survey
From 24-06-02 to 19-07-02: Herring echo survey
From 28-06-04 to 21-07-04: Herring echo 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 Ref. D.

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

E.J. Simmonds, SOAEFD Mar. Lab., PO Box 101, Victoria Road, AB11 9DB Aberdeen, Scotland

Christopher Zimmermann, Institut für Seefischerei (ISH) Bundesforschungsanstalt für Fischerei, Palmaille 9, D-22767 Hamburg Germany

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 /Norway, Denmark,
Duitsland*

COMPLETE THE FOLLOWING TABLE -
SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL *Aberdeen / Leith*

DATES *01-07-2006 - 02-07-2006
15-07-2006 - 16-07-2006*

INDICATE "YES" OR "NO"

<u>LIST SCIENTIFIC WORK BY FUNCTION</u>				<u>DISTANCE FROM COAST</u>			
				<u>WITHIN 12 NMS</u>	<u>BETWEEN 12-200 NM</u>	<u>(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN</u>	
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	

H. van Duyvenvoorde
(On behalf to the Principal Scientist)

Dated **6 February 2006**

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-500 echo sounder on board RV "Tridens"

In June/July 2005 the RV Tridens will participate in the annual international herring echo survey in the North Sea. During this survey, the transducer of the SIMRAD EK-500 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 26 (27-31 June 2005) at Scapa Flow, Orkneys, Scotland. However, the procedure may have to be conducted during another point of time during the survey due to weather conditions.

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 transducer which is built in a towed body, the towed body (2,5 x 1 m; 300 kg; stainless steel) has to be lowered a few meters below the surface. The entire operation will not take more than 6 hours. A CTD profile will be taken at the calibration site. No fishing will be conducted, and no other electronic instruments than the normal 38 kHz echosounder and the CTD will be operated.

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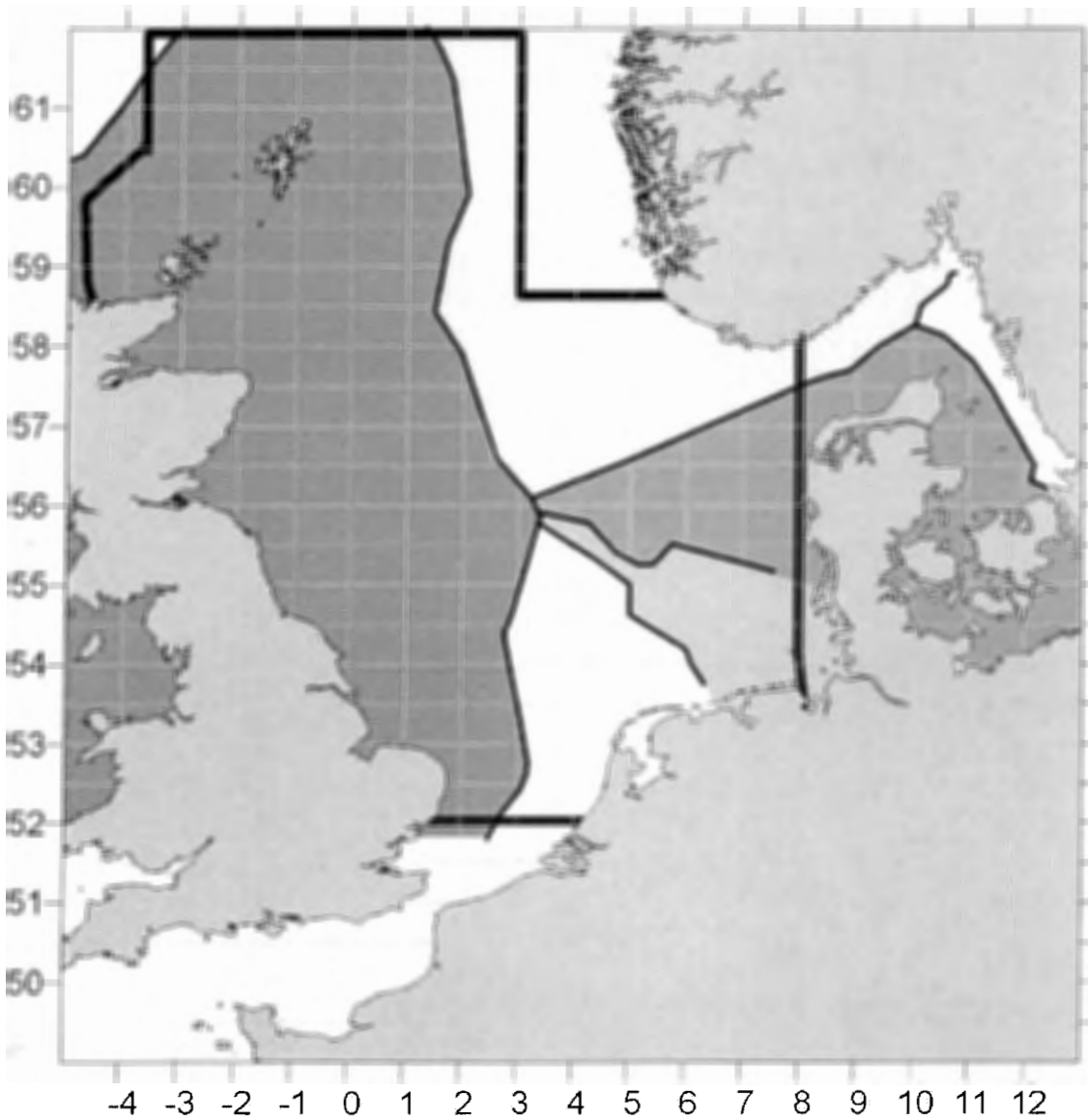
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North Sea acoustic survey for herring, TRIDENS 26 June – 21 July 2006
The survey area is indicated in black.

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