

NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: **TRIDENS** CRUISE NO: **wk. 22-25**
2. DATES OF CRUISE FROM **26 May 2014** TO **20 June 2014**
3. OPERATING AUTHORITY **Ministry of Economic Affairs, Agriculture and Innovation
Department AgroKetens & Fisheries
Prins Clauslaan 8
2595 AJ DEN HAAG**

TELEPHONE **070-3785610** TELEX **32040 Lavinl**

FACSIMILE **070-3786452** E-MAIL J.J.vanDijk@minez.nl
c.j.m.verbogt@minez.nl
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 SCIENTIST IN CHARGE **C.J.G. van Damme
Wageningen IMARES
P.O. Box 68, IJmuiden**

TEL/FAX NO **+ 31 317 480900/487326**

NO: OF SCIENTISTS **6**
8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)
North Sea (see attached maps)
9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: **North Sea Mackerel egg survey 2014**
10. DATES AND NAMES OF INTEND PORTS OF CALL:

31-05-2014 till 02-06-2014 presumably Stavanger, Norway
07-06-2014 till 09-06-2014 presumably Aberdeen, UK
14-06-2014 till 16-06-2014 presumably Stavanger, Norway
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 22-25**
2. DATES OF CRUISE FROM **26-05-2014** TO **20-06-2014**
3. a) PURPOSE OF RESEARCH **Biomass estimation of mackerel stock in the North Sea. To collect data of the distribution of mackerel eggs, to collect data on fecundity of female mackerel and to obtain hydrographical data.**
b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear/trawl type, mesh size etc:)
Mackerel eggs will be collected with a Gulf VII plankton sampler. Mackerel samples will be collected with fishing rod and a pelagic trawl.
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:
See maps.
5. a) TYPES OF SAMPLES REQUIRED eg Geological/Water/Plankton/Fish/Radionuclide:
Approximately 200 plankton samples for analysing mackerel eggs. The sampler is dragged behind the vessel, while it is lowered down to approximately 5 meters above the bottom (or 200m depth maximum) and up again. The plankton sampler is clearly NOT a bottom gear. Approximately 10 hauls with fishing rod and or a pelagic trawl to collect spawning mackerel.
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)
Gulf VII sampler mounted with a CTD on top for fishing on eggs and fishing rod or pelagic trawl for taking biological fish samples.
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:
2011 mackerel egg survey

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE:
Planning of this 2014 Mackerel/Horse Mackerel Egg Survey will be given in: ICES 2014. REPORT OF THE WORKING GROUP ON MACKEREL AND HORSE MACKEREL EGG SURVEYS. ICES CM 2014.
Results of the 2011 Mackerel Egg Survey are given in: ICES 2012. REPORT OF THE WORKING GROUP ON MACKEREL AND HORSE MACKEREL EGG SURVEYS. ICES CM 2012/SSGESST:04.

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:
See Annex 1.

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
Arrangements via IMARES, 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 and results of this survey will be published in 2015 in the ICES Mackerel and horse mackerel egg survey report.

PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE

UK, Germany, Denmark, Norway

COMPLETE THE FOLLOWING TABLE - SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL

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			
Gulf VII plankton sampler	YES, but no sediment sampling	YES	NO	YES	YES	NO
CTD-recorder	YES, but no sediment sampling	YES	NO	YES	YES	NO

L. Cornelissen-Schaap

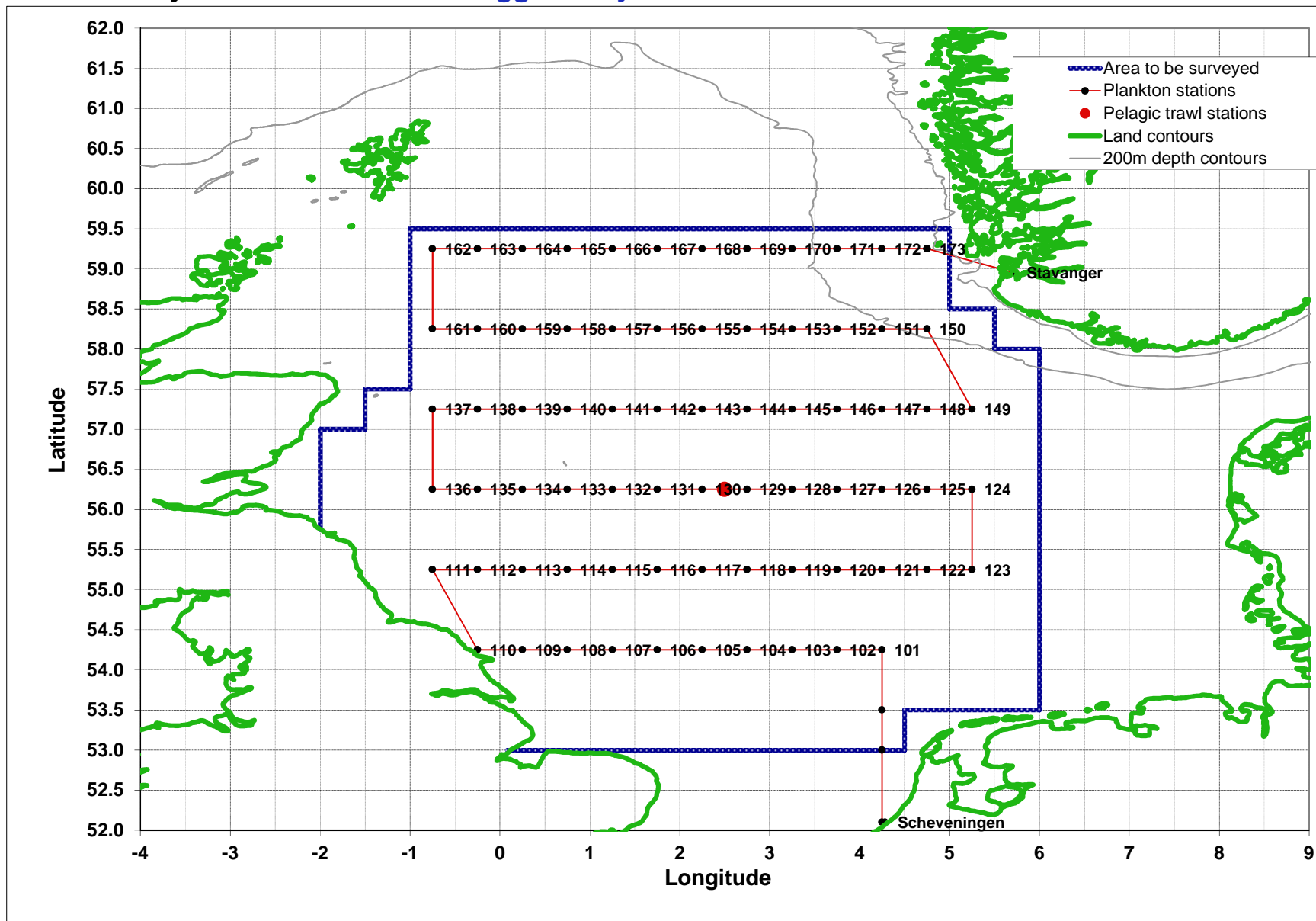
(On behalf to the Principal Scientist)

Dated 23 April 2014

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.

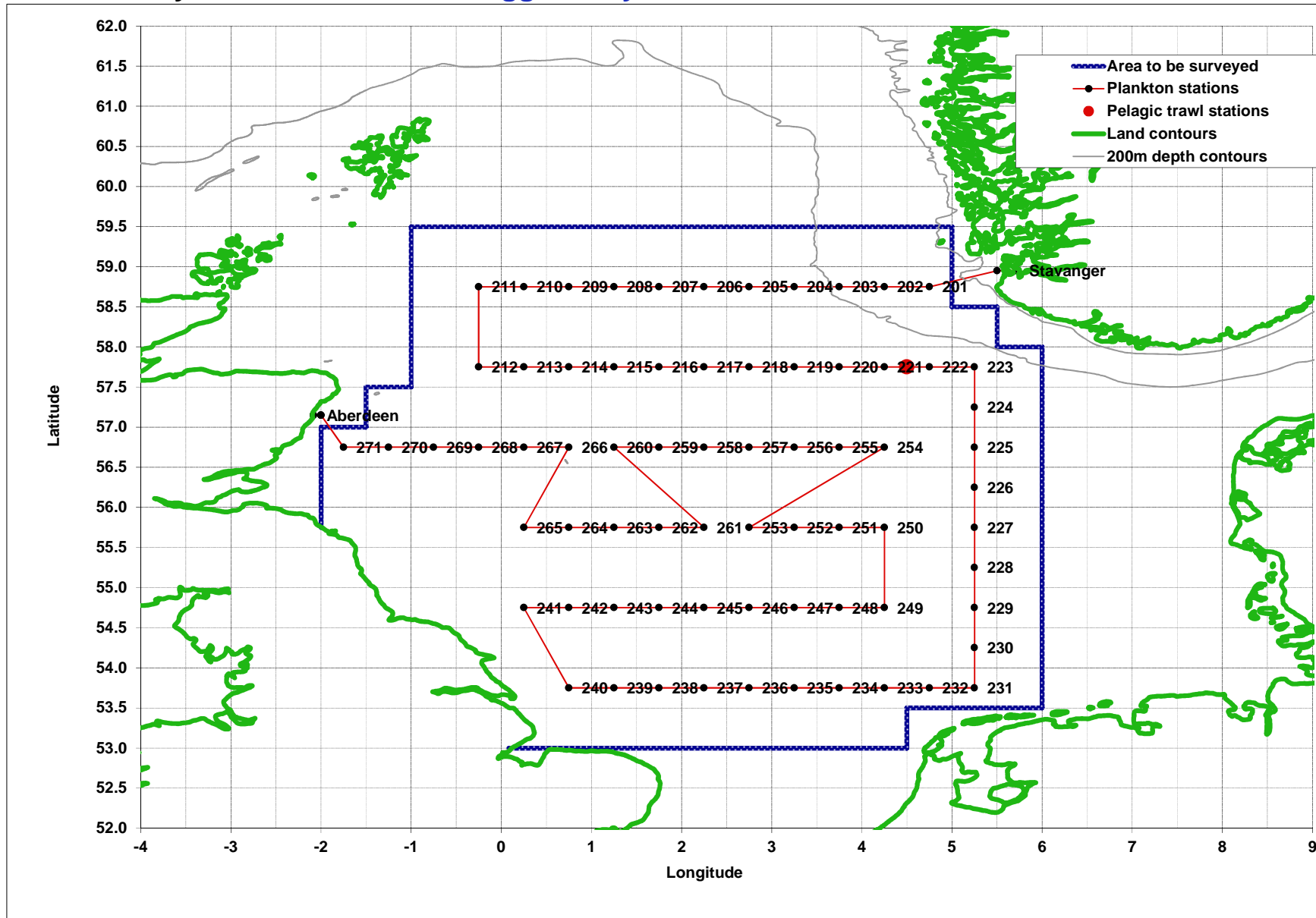
Proposed sampling grid week 22 2014 (may be subject to change due to nautical, weather or technical circumstances)

Survey: North Sea Mackerel Egg Survey 2014 Period 1 Tridens



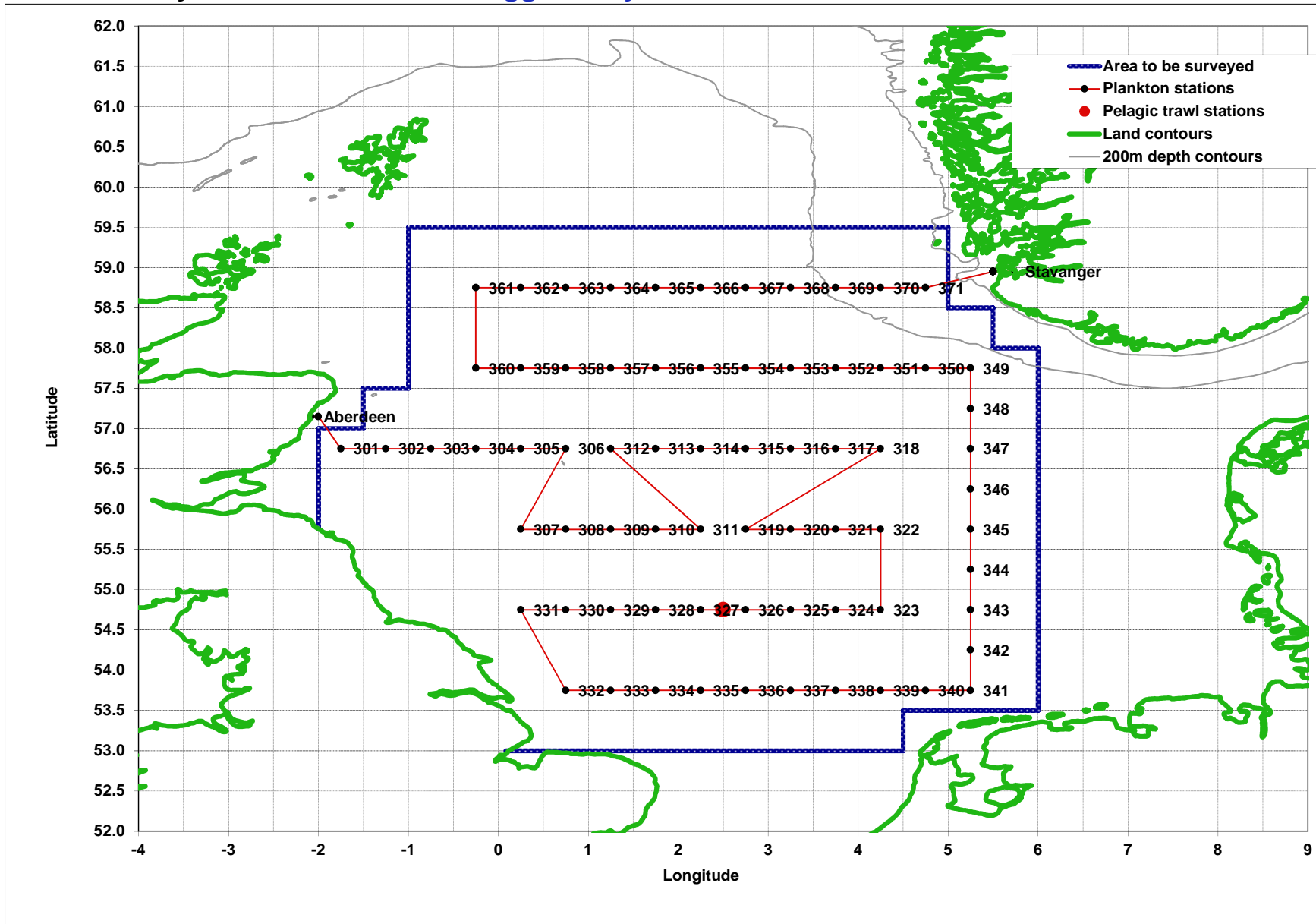
Proposed sampling grid week 23 2014 (may be subject to change due to nautical, weather or technical circumstances)

Survey: North Sea Mackerel Egg Survey 2014 Period 2 Tridens



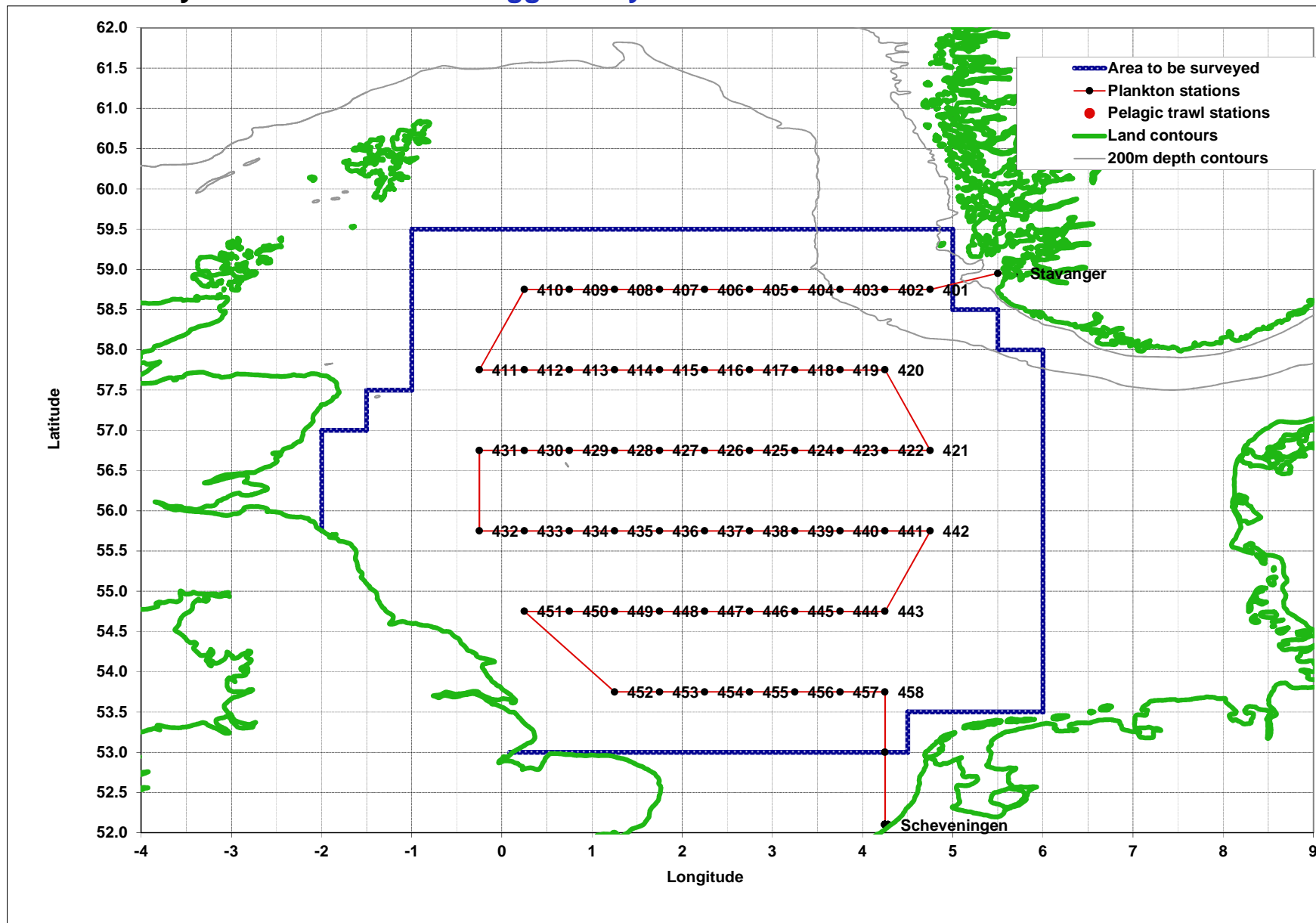
Proposed sampling grid week 24 2014 (may be subject to change due to nautical, weather or technical circumstances)

Survey: North Sea Mackerel Egg Survey 2014 Period 3 Tridens



Proposed sampling grid week 25 2014 (may be subject to change due to nautical, weather or technical circumstances)

Survey: North Sea Mackerel Egg Survey 2014 Period 4 Tridens



Annex 1: Contact persons for the mackerel egg surveys in 2014

SURNAME	NAME	INSTITUTION	E-MAIL	Country
Ulleweit	Jens	Ti	jens.ulleweit@ti.bund.de	Germany
Thorsen	Anders	IMR	Anders.thorsen@imr.no	Norway
Sparre	Per	DIFRES	pjs@aqua.dtu.dk	Denmark
Burns	Finlay	MSS	F.Burns@marlab.ac.uk	UK (Scotland)
Van Damme	Cindy	IMARES	cindy.vandamme@wur.nl	Netherlands