NOTIFICATION OF PROPOSED RESEARCH

PART A : GENERAL

1. NAME OF RESEARCH SHIP: ***TRIDENS*** CRUISE NO: **wk. 38-39**

2. DATES OF CRUISE FROM ***14 September 2020*** TO ***25 September 2020***

3. OPERATING AUTHORITY ***J.W. Groen***
Head of Department Midden
Rijkswaterstaat Dienst Noordzee/ Rijksrederij
Visitors address: Lange Kleiweg 34. 2280 HV Rijswijk
Postal address: Postbus 5807, 2280 HV Rijswijk

TELEPHONE ***+31 (0)703366303***

FACSIMILE ***+31 (0)703366303*** 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 SCIENTIST IN CHARGE	***C.J.G. van Damme*** ***Wageningen Marine Research*** ***P.O. Box 68, IJmuiden***
TEL/FAX NO	**+ 31 317 480900/487326**
NO: OF SCIENTISTS	***4***

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in Latitude & Longitude)
Between 52° 00' and 62° 00' N and between 05° 00' W and 03° 30' E

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: ***Herring larvae survey***

10. DATES AND NAMES OF INTEND PORTS OF CALL: ***18-09-2020 till 21-09-2020***
presumably Aberdeen or Leith

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 38-39**

2. DATES OF CRUISE FROM ***14-09-2020*** TO ***25-09-2020***

3. a) PURPOSE OF RESEARCH ***To collect data of the distribution of herring larvae and to obtain hydrographical data.***

   b) GENERAL OPRATIONAL METHODS (including full description of any fishing geartrawl type, mesh size etc:)
   Gulf VII plankton sampler.

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:

5. a) TYPES OF SAMPLES REQUIRED eg Geological/Water/Plankton/Fish/Radionuclide:
   Plankton samples for analysing herring larvae.
   The sampler is dragged behind the vessel, while it is lowered down to approximately 5 meters above the bottom and up again.
   The plankton sampler is clearly NOT a bottom gear.

   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)
   By fishing with a plankton sampler.

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

- 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:
Yearly, since 1980

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE:
Reports of ICES Working Group of International Pelagic Surveys (WGIPS), Working Group on Surveys on Ichthyoplankton in the North Sea and adjacent Seas (WGSINS) and Herring Assessment Working Group (HAWG)

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:
Staff members of Fishery Laboratory at Lowestoft, Richard Nash (CEFAS)
Staff members of Marine Laboratory at Aberdeen, Hanah Holah (MSSML)

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 STATEFOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND THE PORTS FOR EMBARKATION/DISEMBARKATION
Arrangements via 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 ***Gt. Britain***

COMPLETE THE FOLLOWING TABLE -
SEPERATE PAGE FOR EACH COASTAL STATE

PORT CALL

DATES

INDICATE "YES" OR "NO"

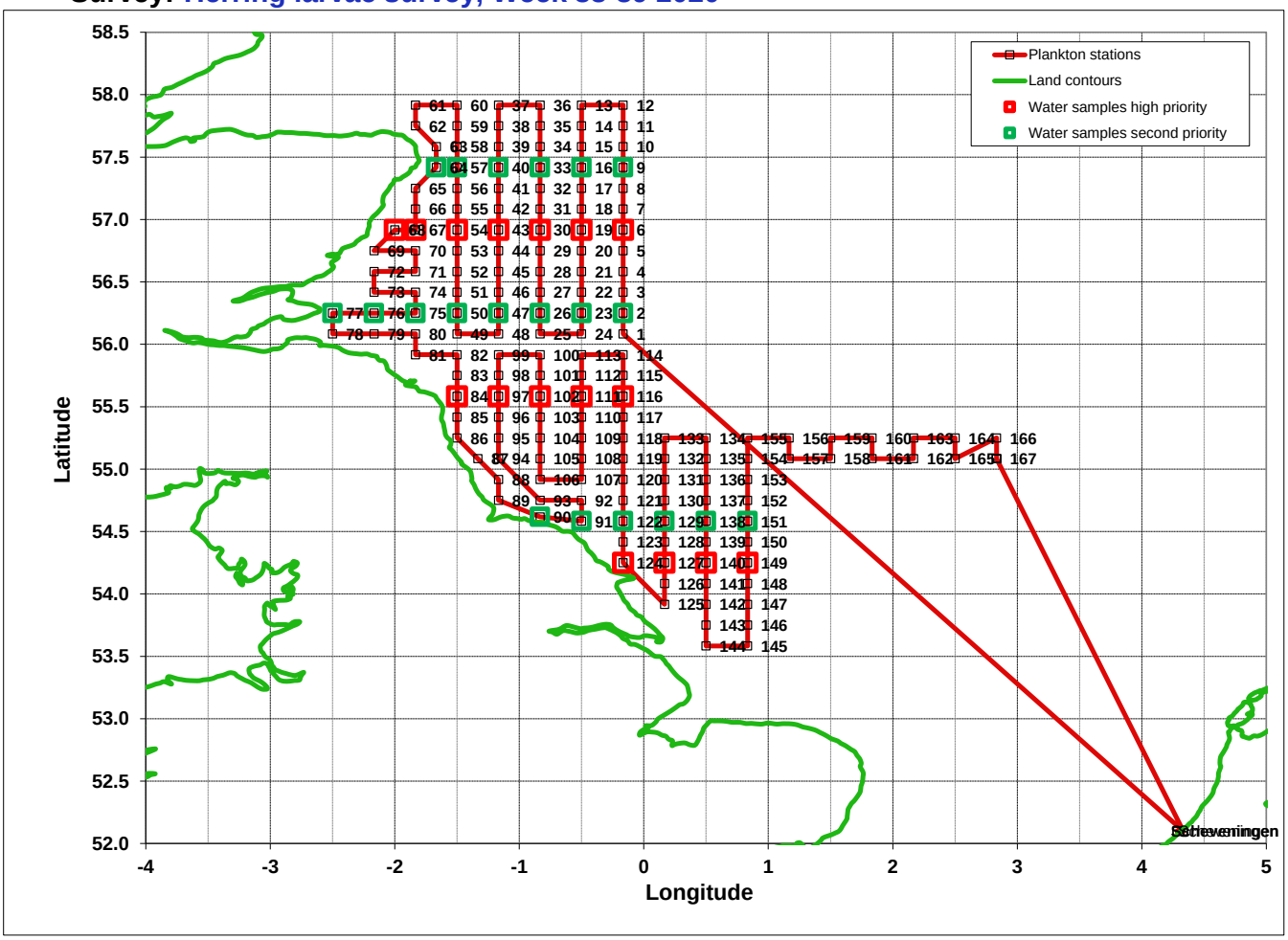
LIST SCIENTIFIC WORK BY FUNCTION eg: MAGNETOMETRY : GRAVITY DIVING : SEISMICS : BATHYMETRY SEABED SAMPLING TRAWLING ECHO SOUNDING : WATER SAMPLING U/W T.V. : MOORED INSTRUMENTS : TOWED INSTRUMENTS	WATER COLUMN INCLUDING SEDIMENT SAMPLING OF THE SEABED	FISHERIES RESEARCH WITHIN FISHING LIMITS	RESEARCH CONCERNING THE NATURAL RESOURCES OF THE CONTINENTAL SHELF OR ITS PHYSICAL CHARACTERISTICS	DISTANCE FROM COAST			
				WITHIN 12 NMS	BETWEEN 12-200 NM	(CONTINENTAL SHELF WORK ONLY) BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN	BEYOND 3 NM
Gulf VII plankton sampler	YES	YES	NO	YES	YES	NO	NO
CTD-recorder	YES	YES	NO	YES	YES	NO	

L. Cornelissen-Schaap
(On behalf to the Principal Scientist)

Dated ***17 March 2020***

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.

Survey: **Herring larvae survey, Week 38-39 2020**



Proposed sampling grid week 38-39 2020

Proposed station positions week 38-39 2020 (Positions are in degrees and minutes)

Station	Latitude	Longitude
1	56.05	-0.10
2	56.15	-0.10
3	56.25	-0.10
4	56.35	-0.10
5	56.45	-0.10
6	56.55	-0.10
7	57.05	-0.10
8	57.15	-0.10
9	57.25	-0.10
10	57.35	-0.10
11	57.45	-0.10
12	57.55	-0.10
13	57.55	-0.30
14	57.45	-0.30
15	57.35	-0.30
16	57.25	-0.30
17	57.15	-0.30
18	57.05	-0.30
19	56.55	-0.30
20	56.45	-0.30
21	56.35	-0.30
22	56.25	-0.30
23	56.15	-0.30
24	56.05	-0.30
25	56.05	-0.50
26	56.15	-0.50
27	56.25	-0.50
28	56.35	-0.50
29	56.45	-0.50
30	56.55	-0.50
31	57.05	-0.50
32	57.15	-0.50
33	57.25	-0.50
34	57.35	-0.50
35	57.45	-0.50
36	57.55	-0.50
37	57.55	-1.10
38	57.45	-1.10
39	57.35	-1.10
40	57.25	-1.10
41	57.15	-1.10
42	57.05	-1.10
43	56.55	-1.10
44	56.45	-1.10
45	56.35	-1.10
46	56.25	-1.10
47	56.15	-1.10
48	56.05	-1.10
49	56.05	-1.30
50	56.15	-1.30
51	56.25	-1.30
52	56.35	-1.30
53	56.45	-1.30
54	56.55	-1.30
55	57.05	-1.30
56	57.15	-1.30
57	57.25	-1.30
58	57.35	-1.30
59	57.45	-1.30
60	57.55	-1.30
61	57.55	-1.50
62	57.45	-1.50
63	57.35	-1.40
64	57.25	-1.40
65	57.15	-1.50
66	57.05	-1.50
67	56.55	-1.50
68	56.55	-2.00
69	56.45	-2.10
70	56.45	-1.50
71	56.35	-1.50
72	56.35	-2.10
73	56.25	-2.10
74	56.25	-1.50
75	56.15	-1.50
76	56.15	-2.10
77	56.15	-2.30
78	56.05	-2.30
79	56.05	-2.10
80	56.05	-1.50
81	55.55	-1.50
82	55.55	-1.30
83	55.45	-1.30
84	55.35	-1.30
85	55.25	-1.30
86	55.15	-1.30
87	55.05	-1.20
88	54.55	-1.10
89	54.45	-1.10
90	54.37	-0.50
91	54.35	-0.30
92	54.45	-0.30
93	54.45	-0.50
94	55.05	-1.10
95	55.15	-1.10
96	55.25	-1.10
97	55.35	-1.10
98	55.45	-1.10
99	55.55	-1.10
100	55.55	-0.50
101	55.45	-0.50
102	55.35	-0.50
103	55.25	-0.50
104	55.15	-0.50
105	55.05	-0.50
106	54.55	-0.50
107	54.55	-0.30
108	55.05	-0.30
109	55.15	-0.30
110	55.25	-0.30
111	55.35	-0.30
112	55.45	-0.30
113	55.55	-0.30
114	55.55	-0.10
115	55.45	-0.10
116	55.35	-0.10
117	55.25	-0.10
118	55.15	-0.10
119	55.05	-0.10
120	54.55	-0.10
121	54.45	-0.10
122	54.35	-0.10
123	54.25	-0.10
124	54.15	-0.10
125	53.55	0.10
126	54.05	0.10
127	54.15	0.10
128	54.25	0.10
129	54.35	0.10
130	54.45	0.10
131	54.55	0.10
132	55.05	0.10
133	55.15	0.10
134	55.15	0.30
135	55.05	0.30
136	54.55	0.30
137	54.45	0.30
138	54.35	0.30
139	54.25	0.30
140	54.15	0.30
141	54.05	0.30
142	53.55	0.30
143	53.45	0.30
144	53.35	0.30
145	53.35	0.50
146	53.45	0.50
147	53.55	0.50

Station	Latitude	Longitude
148	54.05	0.50
149	54.15	0.50
150	54.25	0.50
151	54.35	0.50
152	54.45	0.50
153	54.55	0.50
154	55.05	0.50
155	55.15	0.50
156	55.15	1.10
157	55.05	1.10
158	55.05	1.30
159	55.15	1.30
160	55.15	1.50
161	55.05	1.50
162	55.05	2.10
163	55.15	2.10
164	55.15	2.30
165	55.05	2.30
166	55.15	2.50
167	55.05	2.50