

NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL ORGANISATION PART A

1. Name of research ship **SIMON STEVIN** Cruise No **17-280**
2. Dates of cruise From **8 May 2017** To **12 May 2017**
3. Operating Authority **Flemish Government – Department Fleet
in cooperation with Flemish Marine Institute (VLIZ)
Victorialaan 3 8400 Oostende
Tel. 059/34.21.30 Tlfax 059/34.21.31
E-mail : info@vliz.be**
4. OWNER **BELGIAN STATE REPRESENTED BY MINISTER FOR SCIENCE POLICY**
5. Particulars of ship

Name	SIMON STEVIN
Nationality	BELGIAN
Overall length	36 metres
Maximum draught	3,5 metres
Nett tonnage	137 NRT
Propulsion	Electric
Call Sign	ORBS
6. Crew

Name of Master	Norman Daems
No of Crew	9
7. Scientific Personnel Name and address of applicant :

**Dr. Lennert Tyberghein
Flanders Marine Institute (VLIZ)
Wandelaarkaai 7,
8400 Ostend,
BELGIUM
lennert.tyberghein@vliz.be**

8. Geographical area in which ship will operate (with reference in latitude and longitude).

Southern Bight of the North Sea and Channel

Countries: Belgium (BE), France (FR), United Kingdom (UK), The Netherlands (NL)

point	Country	Locality	latitude	longitude
1	BE	130	51.27055	2.90535
2	BE	120	51.186083	2.702483
3	FR	Duinkerke	51.076456	2.246111
4	FR	pas	51.221734	2.171513
5	FR	Calais	51.013102	1.905619
6	FR	Cap griz nez	50.837958	1.493727
7	FR	Berck	50.466262	1.517103
8	FR	het kanaal		
		midden	50.67611	1.188053
9	UK	Dungeness	50.88168	0.893258
10	UK	het kanaal		
		midden	50.703388	0.880901
11	FR	het kanaal		
		midden	50.575654	1.065448
12	FR	het kanaal		
		midden	50.406069	1.269058
13	FR	Montreuil	50.616698	1.48141
14	FR	Kanaal	50.775645	1.277647
15	UK	Dungeness oost	50.940147	1.066657
16	UK	Folkestone	51.052358	1.182629
17	FR	Kanaal	50.92332	1.374825
18	FR	Cap griz nez	50.837958	1.493727
19	FR	Verder op pas	50.981967	1.647451
20	UK	Kanaal	51.06332	1.557271
21	UK	Dover	51.132973	1.425686
22	UK	Ramsgate	51.405979	1.541156
23	UK	pas	51.289577	1.711539
24	UK	pas	51.205246	1.862647
25	UK	pas	51.371401	1.918477
26	UK	pas	51.501372	1.657067
27	UK	pas	51.649559	1.452362
28	UK	thames	51.558032	1.15422
29	UK	Clacton	51.775275	1.26678
30	UK	Felixstowe	51.882268	1.60015
31	UK	pas	51.750644	1.875259
32	BE	LW01	51.568667	2.256
33	BE	LW02	51.8	2.556
34	BE	tripode bij		
		belwind	51.70301667	2.8133333
35	NL	cross	51.916468	3.016057
36	NL	pas	52.050802	3.354215
37	NL	pas	52.008069	3.65494
38	NL	Visserschoek	51.819575	3.785206
39	NL	pas	51.881984	3.422982
40	NL	pas	51.761651	3.149667
41	NL	Kamperland	51.599092	3.401245
42	NL	pas	51.509858	3.289622
43	BE	780	51.471367	3.057283
44	BE	330	51.434117	2.809083

9. Brief

This cruise

description of purpose of cruise

is planned in the framework of the

Jerico-Next project (<http://www.jerico-ri.eu/>). The main objective is to improve and innovate the cooperation in coastal observatories in Europe. Within several tasks of this project the study of plankton biodiversity is a central point. During this cruise focus will lay on sampling this taxonomic group using different sensors and methods.

10. Port of Call; Dates; Reasons. **as proposed by the applicant**
None

11. Any special logistic requirements at ports of call (other than water, fuel provisions, etc.).
None

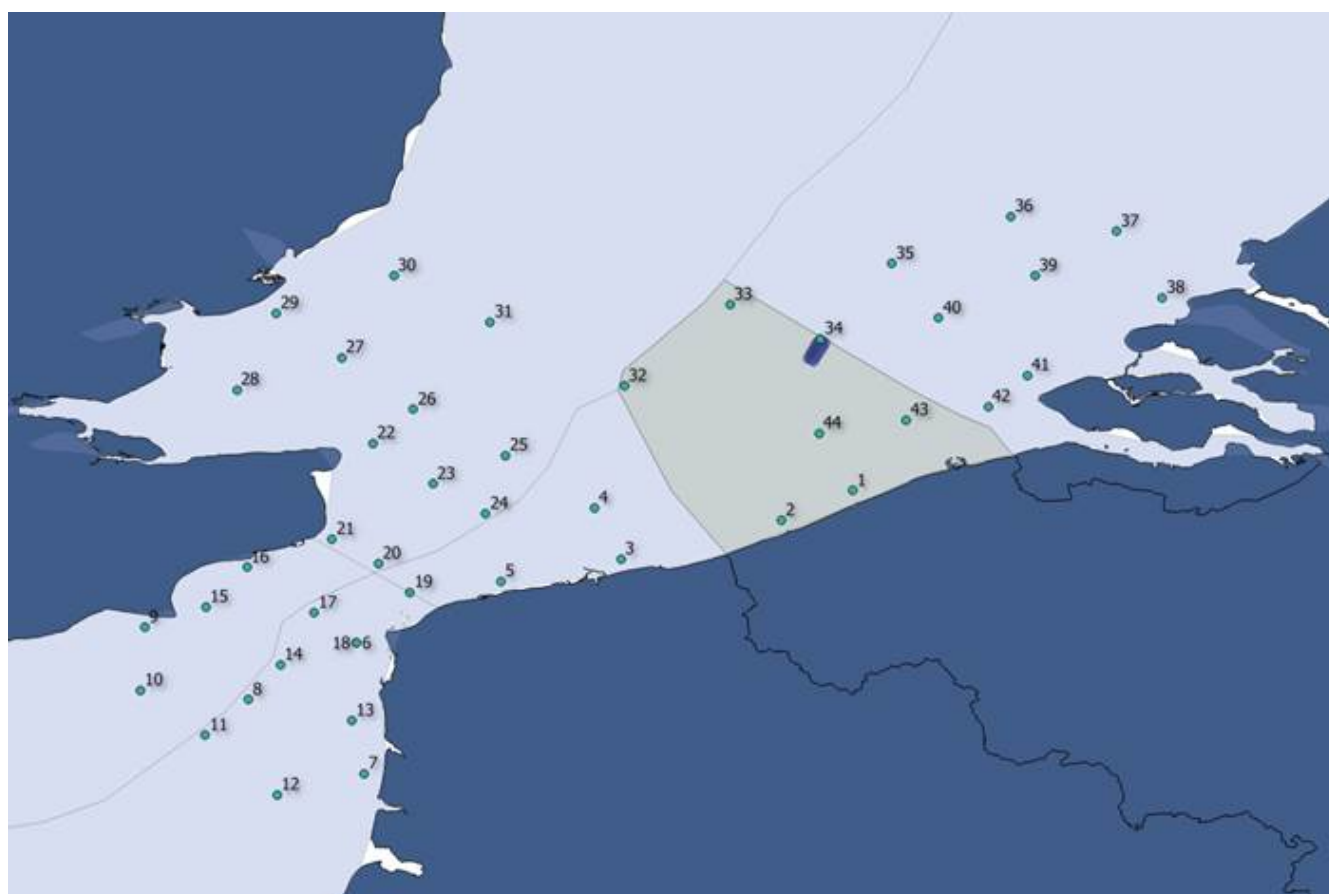
NOTIFICATION OF PROPOSED RESEARCH CRUISE

DETAIL PART B

1. Name of research ship **SIMON STEVIN** Cruise No 17-280,
2. Dates of cruise From 8 May 2017 To 12 May 2017
3. Purpose of research and general methods. (If the research work is being taken on behalf of a research institution of a third state, it is the responsibility of that state to obtain prior permission; it is essential that written confirmation that this has been done is obtained and quoted in this application.)

This cruise is planned in the framework of the **Jerico-Next** project (<http://www.jerico-ri.eu/>). The main objective is to improve and innovate the cooperation in coastal observatories in Europe. Within several tasks of this project the study of plankton biodiversity is a central point. During this scientific cruise focus will lay on sampling this taxonomic group using different sensors and methods. Both discrete samples and samples from the underway system will be taken.

4. Attach chart(s) showing (on an appropriate scale) the geographical area of the intended work: positions of moored equipment.



5. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radioactivity / Isotope ...
- Discrete plankton samples
 - Underway plankton measurements
 - ¹³C isotope reference samples
 - CTD & Niskin bottles
 - Zooplanktonnets
6. Details of moored equipment :
- none
7. Explosives : **None**
- (a) Type and Trade Name (b) Chemical content
- (c) Dept of Trade class and stowage (d) Size
- (e) Depth of detonation (f) Frequency of detonation
- (g) Dates of detonation
8. Details and reference of
- (a) Any relevant previous/future cruises
- None
- (b) Any previously published research data relating to the proposed cruise (Attach separate sheet if necessary).
- Simon Bonato, Urania Christaki, Alain Lefebvre, Fabrice Lizon, Melilotus Thyssen, Luis Felipe Artigas, High spatial variability of phytoplankton assessed by flow cytometry, in a dynamic productive coastal area, in spring: The eastern English Channel, Estuarine, Coastal and Shelf Science, Volume 154, 5 March 2015, Pages 214-223, ISSN 0272-7714, <http://dx.doi.org/10.1016/j.ecss.2014.12.037>.
 - Simon Bonato, Elsa Breton, Morgane Didry, Fabrice Lizon, Vincent Cornille, Eric Lécuyer, Urania Christaki, Luis Felipe Artigas, Spatio-temporal patterns in phytoplankton assemblages in inshore–offshore gradients using flow cytometry: A case study in the eastern English Channel, Journal of Marine Systems, Volume 156, April 2016, Pages 76-85, ISSN 0924-7963, <http://dx.doi.org/10.1016/j.jmarsys.2015.11.009>.
9. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

Country	Contact Name	Institute	Email
UK	Dr. Veronique Creach	CEFAS	veronique.creach@cefas.co.uk
France	Dr. Alain Lefebvre	IFREMER	alain.lefebvre@ifremer.fr
The Netherlands	Mr. Arnold Veen	RWS	arnold.veen@rws.nl

10. State:

- (a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable.

Yes

- (b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkment / disembarkment.

Yes

- (c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.

Yes (scientific reports, publications)

UNITED KINGDOM

SCIENTIFIC EQUIPMENT

11. Complete the following table naming the coastal state.
A separate copy of each state is required.
(Indicate "YES" or "NO")

List all major marine scientific equipment, including scientific sonar other than standard navigational echo sounders, it is proposed to use and indicate waters in which it will be deployed	In territorial	On continental shelf
Cytosense Flow cytometer, Fast Rate Repetition Fluorometer, Fluoroprobe, Phytotam, Hyperspectral sensor	YES	NO
CTD & watersampling (Niskin bottles) WP2 planktonnet	YES	NO

FRANCE

SCIENTIFIC EQUIPMENT

11. Complete the following table naming the coastal state.
A separate copy of each state is required.
(Indicate "YES" or "NO")

List all major marine scientific equipment, including scientific sonar other than standard navigational echo sounders, it is proposed to use and indicate waters in which it will be deployed	In territorial	On continental shelf
Cytosense Flow cytometer, Fast Rate Repetition Fluorometer, Fluoroprobe, Phytomam, Hyperspectral sensor	YES	NO
CTD & watersampling (Niskin bottles) WP2 planktonnet	YES	NO

THE NETHERLANDS

SCIENTIFIC EQUIPMENT

11. Complete the following table naming the coastal state.
A separate copy of each state is required.
(Indicate "YES" or "NO")

List all major marine scientific equipment, including scientific sonar other than standard navigational echo sounders, it is proposed to use and indicate waters in which it will be deployed	In territorial	On continental shelf
Cytosense Flow cytometer, Fast Rate Repetition Fluorometer, Fluoroprobe, Phytomam, Hyperspectral sensor	YES	NO
CTD & watersampling (Niskin bottles) WP2 planktonnet	YES	NO