NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL
ORGANISATION
PART A

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1. Name of research ship SIMON STEVIN Cruise No 18-260

2. Dates of cruise From 16 April 2018 To 20 April 2018

3. Operating Authority **Flemish Government – Department Fleet**
in cooperation with Flemish Marine Institute (VLIZ)
Wandelaarkaai 7 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	Dieselelectric
Call Sign	ORBS

6. Crew

Name of Master	**Norman Daems**
No of Crew	**9**

7. Scientific Personnel Name and address of applicant:

Jonas Mortelmans
Flanders Marine Institute (VLIZ)
Wandelaarkaai 7
8400 Ostend
BELGIUM
jonas.mortelmans@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)

Station	x	y		Station	x	y
1	2.75	51.19		**29**	1.5	51.65
2	2.5	51.12		**30**	1.75	51.66
3	2.25	51.1		**31**	1.75	51.88
4	2	51.06		**32**	2	51.86
5	1.75	51.12		**33**	2	51.59
6	1.667802	50.95		**34**	2	51.34
7	1.5	50.83		**35**	2.25	51.36
8	1.5	50.65		**36**	2.5	51.38
9	1.5	50.42		**37**	2.5	51.65
10	1.5	50.23		**38**	2.25	51.61
11	1.25	50.1		**39**	2.25	51.85
12	1.25	50.37		**40**	2.5	51.9
13	1	50.37		**41**	2.75	51.87
14	1	50.63		**42**	2.75	51.62
15	0.75	50.64		**43**	3	51.89
16	0.75	50.86		**44**	3.25	51.89
17	1	50.87		**45**	3.5	52.12
18	1.25	51.06		**46**	3.75	52.12
19	1.25	50.85		**47**	4	52.01
20	1.25	50.62		**48**	3.75	51.85
21	1.5	51.15		**49**	3.5	51.86
22	1.75	51.39		**50**	3.5	51.65
23	1.5	51.41		**51**	3.25	51.63
24	1.25	51.43		**52**	3.5	51.44
25	1	51.55		**53**	3.25	51.39
26	1.25	51.64		**54**	3	51.61
27	1.25	51.83		**55**	3	51.39
28	1.5	51.87		**56**	2.75	51.39

9. Brief description of purpose of cruise
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 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

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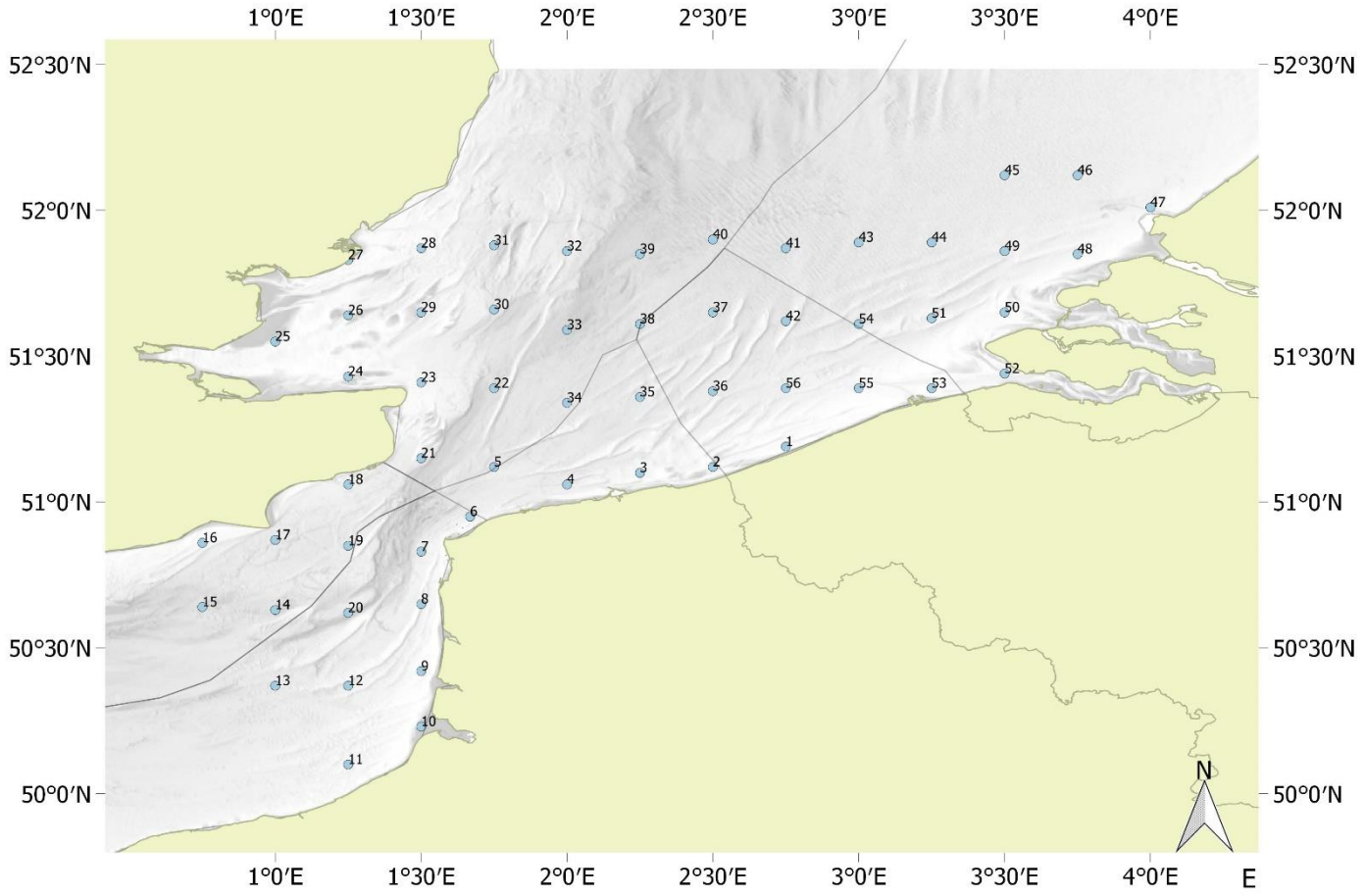
1. Name of research ship RV SIMON STEVIN Cruise No 18-260,

2. Dates of cruise: From 16 April 2018 To 20 April 2018

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
Cruise 17-280 (8 May 2017 – 12 May 2017)

(b) Any previously published research date 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, Phytopam, Hyperspectral sensor	**YES**	NO
CTD & watersampling (Niskin bottles)	**YES**	NO
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, Phytopam, Hyperspectral sensor	**YES**	NO
CTD & watersampling (Niskin bottles)	**YES**	NO
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, Phytopam, Hyperspectral sensor	**YES**	NO
CTD & watersampling (Niskin bottles)	**YES**	NO
WP2 planktonnet	**YES**	NO