

# NOTIFICATION OF PROPOSED RESEARCH CRUISE

## GENERAL ORGANISATION PART A

- 
1. Name of research ship **SIMON STEVIN** Cruise No **16-810**
  2. Dates of cruise From **10 October** To **14 October 2016**
  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](mailto:info@vliz.be)**
  4. OWNER **BELGIAN STATE REPRESENTED BY MINISTER FOR SCIENCE POLICY**
  5. Particulars of ship

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

Name of Master	<b>Giovanni Terryn</b>
No of Crew	<b>9</b>
  7. Scientific Personnel Name and address of applicant :  
  
**Dr. Tine Missiaen  
University Gent, Renard Centre for Marine Geology  
Krijgslaan 281, S8  
9000 Gent, Belgium  
[tine.missiaen@ugent.be](mailto:tine.missiaen@ugent.be)**

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

Northern Part of the Belgian Continental Shelf,

Id	X	Y
1	2° 22' 35.736" E	51° 42' 57.692" N
2	2° 17' 11.877" E	51° 44' 53.408" N
3	2° 29' 27.724" E	51° 57' 43.206" N
4	2° 34' 22.297" E	51° 55' 7.993" N
5	2° 32' 16.699" E	51° 52' 31.001" N
6	2° 50' 38.042" E	51° 45' 18.268" N
7	3° 6' 12.310" E	51° 35' 32.673" N
8	3° 3' 13.535" E	51° 34' 0.254" N
9	2° 28' 50.302" E	51° 48' 16.523" N
10	2° 42' 25.610" E	51° 46' 29.348" N
11	2° 32' 10.582" E	51° 39' 25.523" N
12	2° 8' 36.454" E	51° 36' 55.486" N
13	2° 14' 12.544" E	51° 33' 26.020" N
14	2° 18' 42.272" E	51° 30' 18.644" N

9. Brief description of purpose of cruise

The main goal of the SEARCH project is to develop an efficient prospection methodology for accurate assessment of the submerged heritage, and to develop archaeological potential maps of the BCP.

One of the main goals of the TILES project is the development of a 3D geological voxel model of the subsurface of the North Sea, based on seismic data and core data. This allows volume calculations that are crucial for the management of raw materials in the marine environment.

For both projects an optimal seismic coverage of the BCP is crucial. For now the seismic density in the NE area is very low. With this survey we wish to fill this data gap.

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. ).

## NOTIFICATION OF PROPOSED RESEARCH CRUISE

### DETAIL PART B

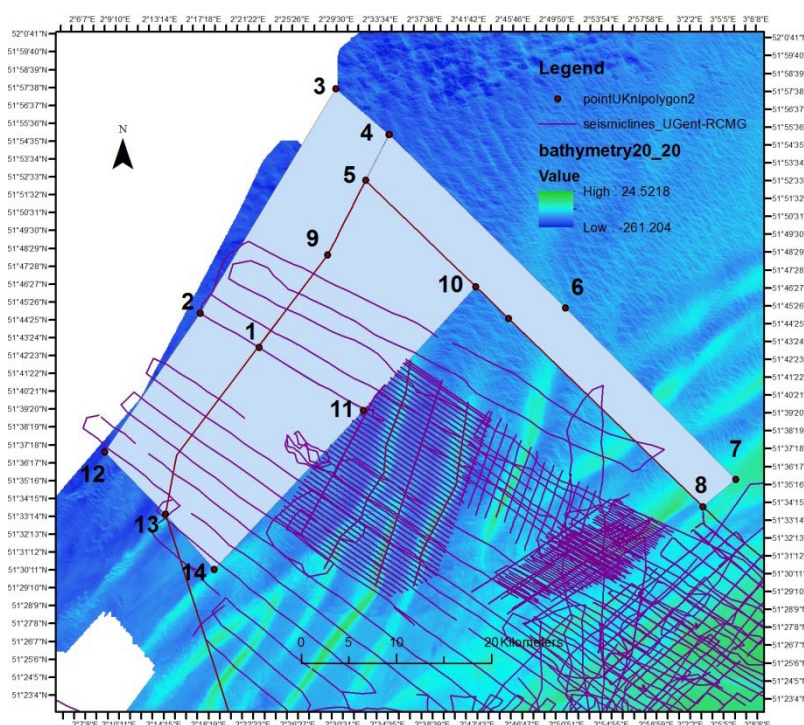
1. Name of research ship **SIMON STEVIN** Cruise No **16-810**,
2. Dates of cruise From **10 October** To **14 October 2016**
3. Purpose of research and general methods. (If the research work is being taken on behalf of a research institution of a third state, it is the responsibility of that state to obtain prior permission; it is essential that written confirmation that this has been done is obtained and quoted in this application.)

The main goal of the **SEARCH** project is to develop an efficient prospection methodology for accurate assessment of the submerged heritage, and to develop archaeological potential maps of the BCP.

One of the main goals of the **TILES** project is the development of a 3D geological voxel model of the subsurface of the North Sea, based on seismic data and core data. This allows volume calculations that are crucial for the management of raw materials in the marine environment.

For both projects an optimal seismic coverage of the BCP is crucial. For now the seismic density in the NE area is very low. With this survey we wish to fill this data gap.

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 ...

none

6. Details of moored equipment :

Dates	Laying	Recovery	Description	Latitude	Longitude
-------	--------	----------	-------------	----------	-----------

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).

M. De Clercq, V. Chademenos, V. Van Lancker & T. Missiaen (2015): A high-resolution DEM for the Top-Palaeogene surface of the Belgian Continental Shelf, Journal of Maps  
<http://dx.doi.org/10.1080/17445647.2015.1117992>

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.

Dr. Justin Dix, University of Southampton (J.K.Dix@soton.ac.uk)

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. (If the final report is likely to be delayed beyond 12 months, interim progress reports are required).

STATE :

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
high-resolution seismic survey using one or more sparker source and a single-channel streamer.		YES