

# NOTIFICATION OF PROPOSED RESEARCH CRUISE

## GENERAL ORGANISATION PART A

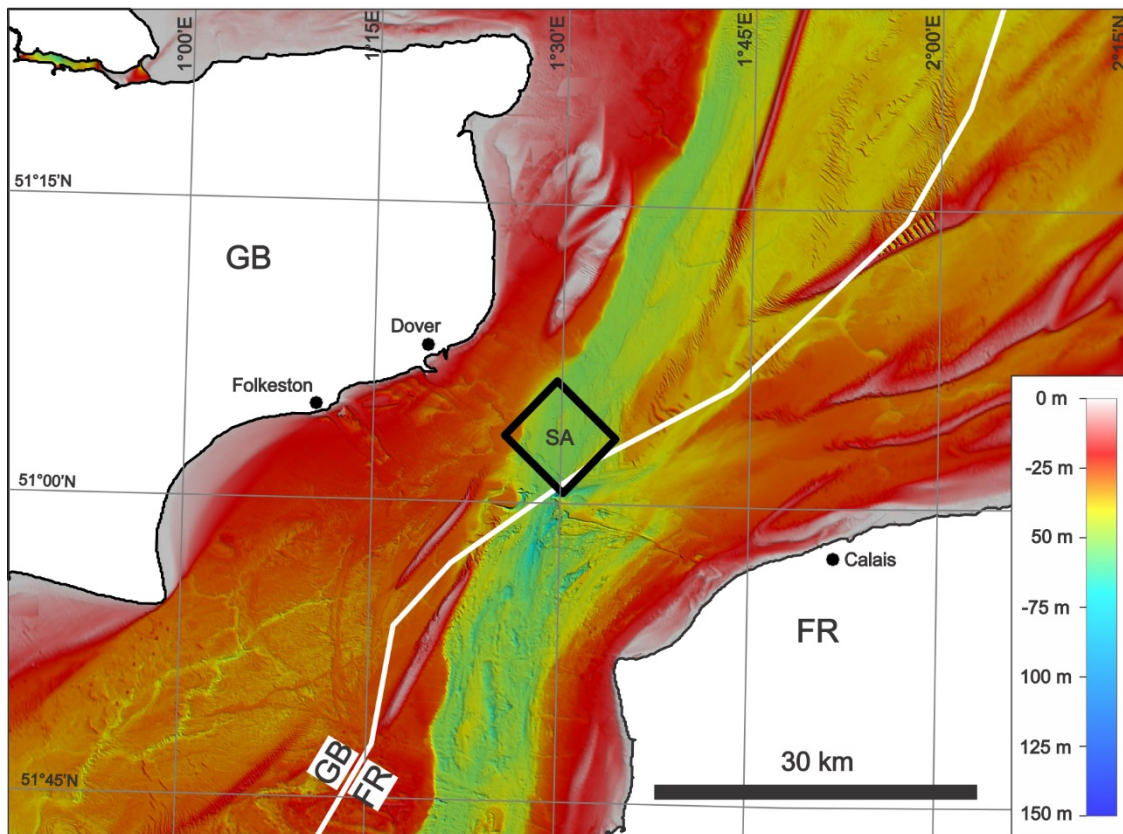
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1. Name of research ship **SIMON STEVIN** Cruise No 19-840
2. Dates of cruise From 2 December To 6 December 2019
3. Operating Authority **Flemish Government – Department Fleet  
in cooperation with Flemish Marine Institute (VLIZ)  
Victorialaan 3 8400 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	36 metres
Maximum draught	3,5 metres
Nett tonnage	137 NRT
Propulsion	Electric
Call Sign	ORBS
6. Crew

Name of Master	<b>Norman Daems</b>
No of Crew	<b>9</b>
7. Scientific Personnel Name and address of applicant :  
**Dr. Tine Missiaen  
Flanders Marine Institute  
Wandelaarkaai 7  
8400 Oostende, Belgium  
[tine.missiaen@vliz.be](mailto:tine.missiaen@vliz.be)**

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



Overview of the study area (black box)

9. Brief description of purpose of cruise

In 2018 a reconnaissance survey was performed in the area to study linear bedforms on the seafloor of the Dover Strait. The bathymetric data recorded in 2018 showed some problems related to calibration issues. With this cruise we plan to obtain new bathymetrical data in a small sub-area in order to assess the consistency of the 2018 data. In addition, also geological data (grab samples) and video footage (using a video frame) will be taken for more/better ground-truth of the geophysical data. This should finally allow a sound interpretation the origin of these enigmatic seafloor features.

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

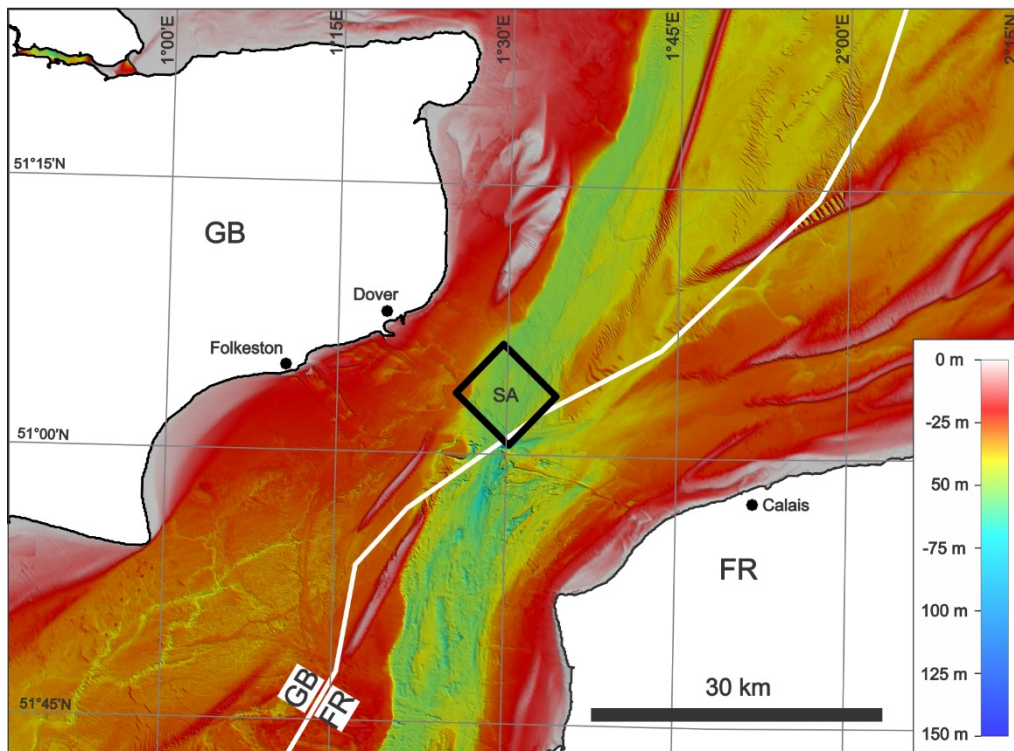
# NOTIFICATION OF PROPOSED RESEARCH CRUISE

## DETAIL PART B

1. Name of research ship SIMON STEVIN Cruise No 19-840
2. Dates of cruise From 2 December To 6 December 2019
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.)

In 2018 a reconnaissance survey was performed in the area to study linear bedforms on the seafloor of the Dover Strait. The bathymetric data recorded in 2018 showed some problems related to calibration issues. With this cruise we plan to obtain new bathymetrical data in a small sub-area in order to assess the consistency of the 2018 data. In addition, also geological data (grab samples) and video footage (using a video frame) will be taken for more/better ground-truth of the geophysical data. This should finally allow a sound interpretation the origin of these enigmatic seafloor features.

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



Overview of the study area (black box)

5. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radioactivity / Isotope ...

**Geological (Hammond grab, seafloor samples)**

6. Details of moored equipment:

DatesLaying	Recovery	Description	Latitude	Longitude
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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

**Previous cruise in the area was carried out in February 2018.**

(b) Any previously published research data relating to the proposed cruise (Attach separate sheet if necessary).

Gupta, S., Collier, J.S., García-Moreno, D., Oggioni, F., Trentesaux, A., Vanneste, K., De Batist, M., Camelbeeck, T., Potter, G., Van Vliet Lanoe, B., and Arthur, J.C.R., 2017. Making Britain: Two-stage catastrophic opening of the Dover Strait. Nature Communications 8, doi: 10.1038/ncomms15101.

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.

Prof. Jenny Collier  
Dept. Earth Science and Engineering  
Imperial College London  
Prince Consort Road  
London SW7 2BP (United Kingdom)  
[jenny.collier@imperial.ac.uk](mailto:jenny.collier@imperial.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
Multibeam	YES	YES
Videoframe	YES	YES
Hammond grab sampler	YES	YES
ADCP current profiler	YES	YES