

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. Name of research ship **BELGICA** Cruise N° **2012/3**

2. Dates of cruise From **06 February** to **10 February 2012**

3. Operating Authority Belgian Navy under contract for Belgian Ministry of Science Policy

Management Unit of the North Sea Mathematical Model "M.U.M.M.",

3° & 23° Linieregimentsplein, 8400 Oostende Tel: 32(0)59 70 01 31, Facsimile: 32(0)59 70 49 35

Email: bmmost@mumm.ac.be

4. Owner Belgian state represented by Minister for Science Policy

5. Particulars of ship Name **Belgica**

Nationality Belgian
Overall length 51 meters
Maximum draught 4,5 meters
Nett tonnage 232 NRT
Propulsion Diesel
Call Sign ORGQ

 Telephone
 INMARSAT
 00870 76 218 73 27

 Facsimile
 INMARSAT
 00870 32 052 18 12

Email belgica@mumm.ac.be

6. Crew Name of master Commander (BeN) Pedro DORY

N° of Crew 15

7. Scientific Personnel Name and address of scientist in charge:

Prof. Dr. M. De Batist Universiteit Gent

Renard Centre of Marine Geology (RCMG)

Krijgslaan 281 - S8, B-9000 Gent Tel:+32 9 264 45 87, Fax:+32 9 264 49 67 e-mail: Marc.DeBatist@UGent.be

N° of scientists 15

(A nominal roll of all personnel other than nationals of the applicant (flag) state is required)

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

French and UK continental shelves

Within the polygon defined by the corners with coordinates:

- 1.13224760°E, 51.02817308°N
- 1.37380914°E, 51.13518290°N
- 1.79661330°E, 51.00003559°N
- 1.57438958°E, 50.87857009°N



9. Brief description of purpose of cruise

The main objective of the project 'SHARE' (Seismic Hazard Harmonization in Europe) is to deliver measurable progress in all steps leading to a harmonized assessment of seismic hazard - in the definition of engineering requirements, in the collection and analysis of input data, in procedures for hazard assessment, and in engineering applications.

This project is carried out in the EC 7th Framework Programme SHARE:226967 (Active faults in Western Europe): 2009-2012 and the NIRAS/ONDRAF convention CCHO:2007-4177/00/00 (Seismotectonic Zonation): 2007-2010.

10. Port of Call. Dates. Reasons.

Zeebrugge 06/02/2012 Departure homeport : Start of research cruise 12/3
Zeebrugge 10/02/2012 Arrival homeport : End of research cruise 12/3

11. Any special logistic requirements at ports of call (other than water, fuel provisions, etc.)

N.A.



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PART B: DETAIL

1.	Name of research sl	nip BEL (GICA Cruis	se N°	2012/3				
2.	Date of cruise	From	C	06 February	То	10 February 20)12		
3.	Purpose of research institution of a third written confirmation	d state, it is the r	esponsibility of th	nat state to	obtain prior peri	nission; it is ess			
	Historical sources in the southern North damage onshore. E- length of at least a English Channel. Or zone which may har of this project is to sediments or tector dense grids of high- recordings in key lo	Sea (AD 1382) an arthquakes of this few kilometers. He ishore, investigative become active look for evidence nic seafloor relief.	d in the English C magnitude are c owever, so far no ons are being cor again, and which of recent activity This will be achie	hannel (AD a aused by ab othing is kno nducted on t continues the of these fau eved by colle	1580). These ear rupt tectonic mown about possible North-Artois hrough the Englits, such as dispection of multibe	thquakes also can evements on fau ly active faults in Shear Zone, and sh Channel. The lacement of you am bathymetry	aused Its with a n the old fault purpose ng data,		
4.	Attach chart(s) show intended stations, to	•	, ,	• .		ded work, position	ons of		
	See chart								
5.	Types of samples re	quired, e.g. Geolo	gical / Water / Pla	nkton / Fish	/ Radioactivity /	Isotope			
	geophysical measurements								
	and methods by which samples will be obtained (including dredging/coring/drilling).								
	multibeam bathymetry, side-scan sonar recording, seismic profiling								
6.	Details of moored e	quipment :	N.A.						
	Dates Laying R	ecovery	Description		Latitude	Lo	ngitude		
7.	Explosives :		N.A.						
	(a) Type and Trade I (c) Dept of trade cla (e) Depth of detona (g) Dates of detonat	ss and stowage tion		(d) Siz	emical content e quency of detona	ation			





- 8. Details and reference of
 - (a) Any relevant previous/future cruises

RV BELGICA Cruise 2010/09

- (b) Any previous published research data relating to the proposed cruise (attach separate sheet if necessary)
 - Camelbeeck, T., Vanneste, K., Alexandre, P., Verbeeck, K., Petermans, T., Rosset, P., Everaerts, M., Warnant, R. and Van Camp, M., 2007. Relevance of active faulting and seismicity studies to assess long term earthquake activity in Northwest Europe. In: S. Stein and S. Mazzotti (eds.) Continental Intraplate Earthquakes: Science, Hazard, and Policy Issues. Geological Society of America, Special Paper 425, 193-224.
 - Camelbeeck, T., Vanneste, K. and Van Camp, M., 2008. The seismic activity in stable continental Europe. In: Camelbeeck, T., Degée, H., Degrande, G. and Sabbe, A. (eds.) Seismic risk Earthquakes in North-Western Europe. Editions de l'Université de Liège, pp.25-32
- 9. Names and addresses of scientist of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

FRANCE:

Dr. Michel Sébrier, directeur de recherche CNRS, UMR 7072, Institut des Sciences de la Terre de Paris (ISTeP), Université Pierre et Marie Curie, Case courrier 129, 4 place Jussieu, F-75252 Paris Cedex 05.

Dr. Hervé Jomard, Institut de Radioprotection et de Sûreté Nucléaire (IRSN), DEI/SARG/BERSSIN, BP 17, F-92262 Fontenay aux Roses Cedex

Dr. Alain Trentesaux, Université de Lille 1, SN5, UMR 8577, F-59655 Villeneuve d'Ascq Cedex

UNITED KINGDOM

Dr. Jenny Collier, Department of Earth Science & Engineering, Imperial College, Prince Consort Road, London, SW7 2AZ, 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 embarkation / disembarkation.

Yes, cfr. part A § 10

(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.

Scientific publications when available by request to the project chief



PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE : FRANCE

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST		
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	WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN
Sidescan sonar			YES	YES		
Seismic profiling			YES	YES		
EM 3002 multibeam bathymetry			YES	YES		



PART C: SCIENTIFIC EQUIPMENT

COASTAL STATE : UNITED KINGDOM

INDICATE "YES" OR "NO"

LIST SCIENTIFIC WORK BY FUNCTION				DISTANCE FROM COAST			
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	WITHIN 12 NMS	BETWEEN 12-200 NMS	CONTINENTAL SHELF WORK ONLY BEYOND 200 NM BUT WITHIN THE CONTINENTAL MARGIN	
Sidescan sonar			YES	YES			
Seismic profiling			YES	YES			
EM 3002 multibeam bathymetry			YES	YES			
EM 3002 multibeam bathymetry			YES	YES			





Belgica campaign 12/3: chart

