

**APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH  
IN AREAS UNDER NATIONAL JURISDICTION OF  
UNITED KINGDOM**

**Date : September 18 2007**

**1 - GENERAL INFORMATION**

**1.1. Cruise name and/or number : GeoEcrou on the Research Vessel *Thalia***

**1.2. Sponsoring institution :**

Name : Ifremer

Address : 155; rue Jean-Jacques Rousseau  
92138 Issy les Moulineaux

Phone : 33 (0)1.46.48.21.00

Fax : 33 (0)1.46.48.21.21

Director : Jean-Yves Perrot

**1.3. Scientist in charge of the project :**

Name : David Menier

Address : SOLITO, UMR 6118, Géosciences Rennes  
Rue Yves Mainguy,  
56017 Vannes cedex.

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Email : [david.menier@univ-ubs.fr](mailto:david.menier@univ-ubs.fr)

**1.4. Scientist from ..... involved in the planning of the project :**

Name : Sanjeev Gupta

Address : Department of Earth Science and Engineering, Imperial College  
RSM Building, Prince Consort Road SW7 2BP London UK

Phone :

Fax :

Email: [s.gupta@ic.ac.uk](mailto:s.gupta@ic.ac.uk)

**1.5. Submitting officer:**

Name : Olivier Quédec

Address : Ifremer Centre de Brest - Secteur Programmation Flotte  
B.P. 70 - 29280 Plouzané

Phone : 33 (0)2.98.22.44.43

Fax : 33 (0)2.98.22.44.55

Email : [olivier.quedec@ifremer.fr](mailto:olivier.quedec@ifremer.fr)

## 2 - DESCRIPTION OF THE PROJECT

### 2.1. Nature and objectives of the project :

- 3D high resolution geometry, stratigraphy and sedimentology of Cenozoic sedimentary formation in the Ecréhous basin
- Geometry, thickness and natures of quaternary and present sediments in the Ecréhous basin

### 2.2. Relevant previous or future research cruises :

### 2.3. Previously published research data relating to the project :

**Baize S.** (1998) – tectonique, eustatisme et climat dans un système géomorphologique côtier. Le nord-ouest de la France au Plio-Pléistocène : exemple. Université de Caen, Document BRGM, 289 [1999]., 366pp.

**Baize S., Lagarde J.-L., Laville E., & Dugué O.** (1998). Géomorphologie d'un plateau littoral (Cotentin, Normandie) : enregistrements des signaux tectoniques et climatiques. – Bull. Soc géol. France, 169, 6, pp.851-866.

**Bourillet J.-F., Reynaud J.-Y., Baltzer A. & Zaragosi S.** (2003). The "fleuve Manche" : the submarine sedimentary features from the outer shelf to the deep-sea fans. Journal of Quaternary Science, 18, 261-282.

**Stéphan M., Satra C., Augris C., Bourillet J.F.** (2002). Synthèses géologiques sur le plateau continental français métropolitain.

**Dugué O., Lautridou J.-P., Quesnel F., Poupinet N., Clet M., Camuzard J.-P., Coutard S., Bourdillon C., Freslon M., Auffret J.-P., Laville E. & Gain** (2005). Le cotentin du Mésozoïque au Cénozoïque. Bull. Inf. Géol. Bass. Paris, 42, 2, 6-68pp.

**Dugué O.**, (2006). Le Massif Armoricaïn dans l'évolution mésozoïque et cénozoïque du Nord-Ouest de l'Europe. Contrôle tectonique, eustatique et climatique d'un bassin intracratonique (Normandie, Mer de la manche, France). Université de Caen, Mémoire d'habilitation à diriger des recherches, 306p.

**Gupta S., Collier J-S., Palmer-Felgate A., Potter G.** (2007). Catastrophic flooding origin of shelf valley systems in the English Channel. Nature, Vol 448, 342-346.

**Lericolais G.** (1997). Evolution du fleuve Manche depuis l'Oligocène : stratigraphie et géomorphologie d'une plate-forme en régime périglaciaire. Thèse de l'Université de Bordeaux I, 265p.

**Lericolais G., Auffret J.-P., Bourillet J.-F.**, (2003). The quaternary Channel river : seismic stratigraphy of its palaeovalleys and deep. J.Quat.Sci. 18, 245-260.

**3 - METHODS AND MEANS TO BE USED**

**3.1. Particular of vessel**

Name : ***Thalia***  
Nationality : French  
Owner : Ifremer  
Operator : Genavir  
Overall length : 24,50 m  
Maximum draught : 3,6 m  
Gross tonnage : 135,4 Tx  
Propulsion : 2 motors Poyaud A 12150M de 265 kW  
Propulseur transversal avant Sauer 37kW  
Maximum speed : 10 knots  
Call sign : FPCS - 227 270 000  
Method and capability of communication (including telex, frequencies) :  
*Tel : 06.85.31.87.83 (timonerie) ou 06.16.87.10.70 (commandant)*  
*Fax : 06.19.49.55.58*  
*Inmarsat mini M – Tel : 00.870.762.485.577 - Fax : 00.870.762.485.579*  
*Email : TH.Commandant@ifremer.fr*  
Name of master : Loïc Provost  
Number of crew : 6  
Number of scientists on board : 6

**3.2. Aircraft or other craft to be used in the project : None**

**3.3. Particulars of methods and scientific instruments :**

Types of samples and data	Methods to be used	Instruments to be used
High resolution seismic data		Sparker, multibeam sonar
Bathymetric data		Sonar system

**3.4. Indicates whether harmful substances will be used : No**

**3.5. Indicate whether drilling will be carried out : No**

**3.6. Indicate whether explosives will be used : No**

**4 - INSTALLATIONS AND EQUIPMENTS**

Details of installations and equipments (dates of laying, servicing, recovery, exact locations and depth)

**5 - GEOGRAPHICAL AERAS**

5.1. Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude) :

2 Legs : Latitude: 48°45 N to 50°N, Longitude: 1°30W to 2°45W.

5.2. Attach chart(s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intened stations, the tracks of survey lines, and the locations od installations and equipment :

**6 - DATES**

6.1 Expected dates of first entry into and final departure from the research area of the research vessel :

entry	date :	05/10/2008	?	10 May 2008
departure	date :	06/07/2008		07 June 2008

6.2 Indicate if multiple entry is expected :

Return to st Malo's port or Granville's port or Guernesey's port every evening.

**7 - PORTS CALLS**

7.1. Dates and names of intended ports of call in .....

Return to st Malo's port or Granville's port or Guernesey's port every evening.

7.2. Any special logistical requirements at ports of call :

No

7.3. Name/Address/Telephone of shipping agent (if available)

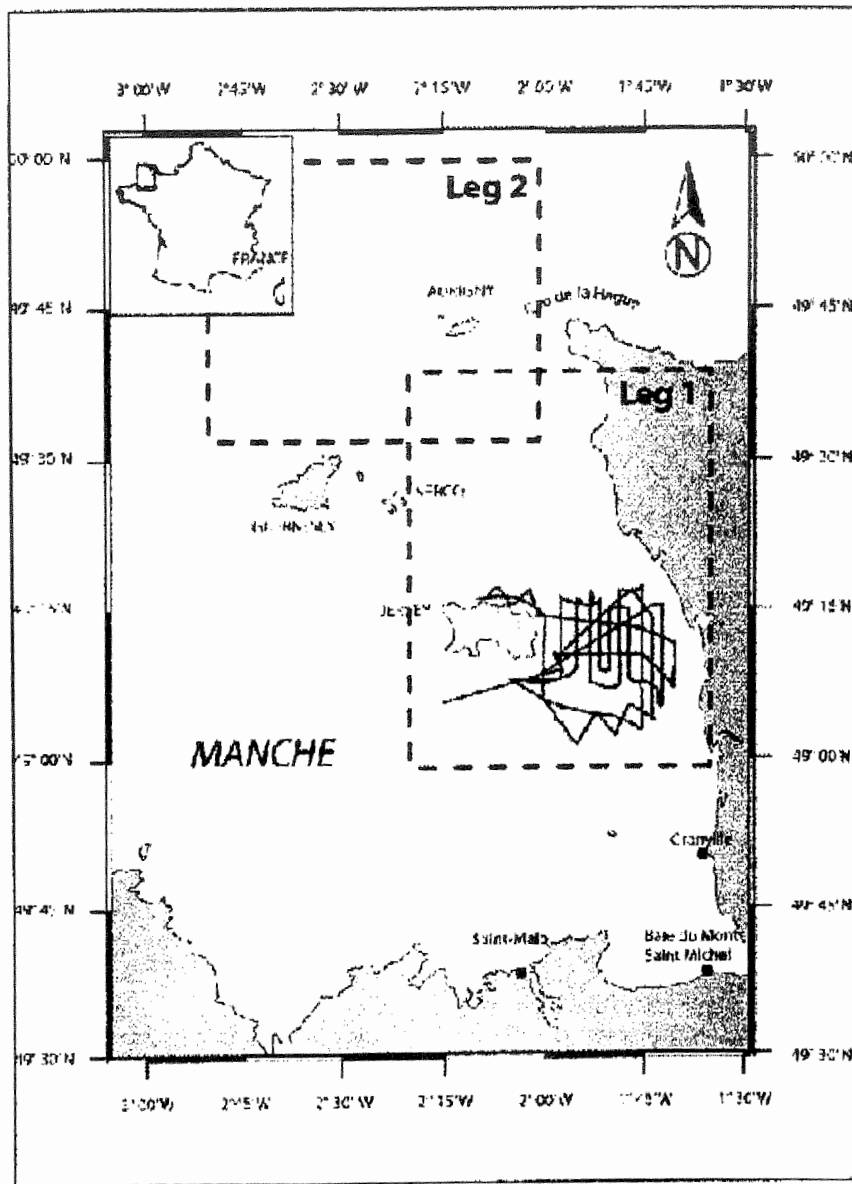
Named later

**8 - PARTICIPATION**

8.1. Extent of which ..... will be enabled to participate or to be represented in the research project :

8.2. Proposed dates and ports for embarkation/disembarkation :

start	date :	05/10/2008	?	10 May 2008
end	date :	06/07/2008		07 June 2008



**9 - ACCESS TO DATA, SAMPLES AND RESEARCH RESULTS**

**9.1. Expected dates of submission to ..... of preliminary reports which should include the expected dates of submission of the final results :**

**9.2. Proposed means for access by ..... to data and samples :**

**9.3. Proposed means of making research internationally available :**

**ANNEX**

**List of the scientific team**

- David Menier, SOLITO-U.B.S-UMR 6118 Géosciences Rennes
- Guilhem Estournes, SOLITO- U.B.S-UMR 6118 Géosciences Rennes
- François Guillocheau, CNRS-UMR 6118 Géosciences Rennes
- Jean-Noël Proust, CNRS-UMR 6118 Géosciences Rennes
- Pol Guennoc, B.R.G.M
- Isabelle Thinon B.R.G.M
- Olivier Dugué, UMR 6143 Géosciences Caen
- Agnès Baltzer, UMR 6143 Géosciences Caen
- Pascal Le Roy IUEM/UBO Brest
- Jean-François Bourillet IFREMER/BREST
- Claude Augris IFREMER Brest
- Gilles Lericolais IFREMER Brest
- Sanjeev Gupta Imperial College London UK