

Application for Consent to conduct
Marine Scientific Research

Date: 05/03/2015, updated 07/07/2015

1. General Information

1.1 Cruise name and/or number: CGFS 2015	
1.2 Sponsoring Institution(s): IFREMER	
IFREMER	Institut Français de Recherche pour l'Exploitation de la Mer
Address:	155, rue Jean-Jacques Rousseau 92138 ISSY LES MOULINEAUX FRANCE
Name of Director:	François JACQ

1.3 Scientist in charge of the Project:	
Name:	Coppin
Country:	France
Affiliation:	IFREMER
Address:	BP 699 150 quai Gambetta Boulogne/mer
Telephone:	+33321995600
Fax:	+33321995601
Email:	Franck.Coppin@ifremer.fr
Website (for CV and photo):	www.ifremer.fr

1.4 Entity(ies)/Participant(s) from coastal State involved in the planning of the project:	
Name:	Verin
Affiliation:	IFREMER
Address:	BP 699 150 quai Gambetta Boulogne/mer
Telephone:	+33321995600
Fax:	+33321995601
Email:	Yves.verin@ifremer.fr
Website (for CV and photo):	www.ifremer.fr

2. Description of Project

2.1 Nature and objectives of the project:
Since 1988, the IFREMER Fisheries Resources laboratory of Boulogne/mer is carrying out a pluri-annual program to estimate the recruitment and the abundance per age groups for main fish species of commercial interest in the Eastern Channel and in the south of the North Sea, as parts of great importance for the French fisheries. These data are obtained from an annual bottom trawl survey allowing to describe precisely the distribution of ichthyological populations and to collect biological informations suitable for stock assessments and ICES (International Council for the Exploration of the Sea) working groups. The data collected during this survey are also used to determinate the relationship between environmental parameters and species abundance to identified their optimal habitats. From 2015, CGFS survey will take place on the R/V Thalassa allowing a broader sampling of the ecosystem, notably water and phyto, zoo and ichthyoplankton samples. The survey will also be extended westwards, in order to cover the Western English Channel.

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2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

Fishing survey Information System group of IFREMER
The Channel Ground Fish Survey project is coordinated by The International Council for Exploration of the Sea in Copenhagen (Denemark)
(<http://www.ices.dk/Pages/default.aspx>)

2.3 Relevant previous or future research projects:

CHARM, CRESH, VISTA, PEGASEAS, EMIBIOS, CPER MARCO

2.4 Previous publications relating to the project:

Report of the International Bottom Trawl Survey Working Group (IBTSWG) 2011. ICES/CIEM, Ref. ICES CM 2011/SSGESST:06, 243p.

Lauria Valentina, Vaz Sandrine, Martin Corinne, Mackinson Steve, Carpentier Andre (2011). **What influences European plaice (*Pleuronectes platessa*) distribution in the eastern English Channel? Using habitat modelling and GIS to predict habitat utilization.** *Ices Journal Of Marine Science*, 68(7), 1500-1510. <http://dx.doi.org/10.1093/icesjms/fsr081>

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Martin C.S., S. Vaz, P. Koubbi, G.J. Meaden, G.H. Engelhard, V. Lauria, L. Gardel, F. Coppin, J. Delavenne, L. Dupuis, B. Ernande, A. Foveau, S. Lelièvre, J. Morin, C. Warembourg, and A. Carpentier. 2010. A digital atlas helps to link the ontogenic shifts in fish spatial distribution to the environment of the eastern English Chanel. *Dab as a case study. Cybium* 34: 59-71.

Rochet Marie-Joelle, Trenkel Verena, Carpentier Andre, Coppin Franck, Gil De Sola Luis, Leaute Jean-Pierre, Mahe Jean-Claude, Maiorano Porzia, Mannini Alessandro, Murenu Matteo, Piet Gerjan, Politou Chrissi-Yianna, Reale Bruno, Spedicato Maria-Teresa, Tserpes George, Bertrand Jacques (2010). Do changes in environmental and fishing pressures impact marine communities? An empirical assessment. *Journal Of Applied Ecology*, 47(4), 741-750. Publisher's official version : <http://dx.doi.org/10.1111/j.1365-2664.2010.01841.x> , Open Access version : <http://archimer.ifremer.fr/doc/00008/11925/>

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Villanueva M.C., A. Carpentier, S. Vaz, C. Martin, F. Coppin, L. Curet, J.-C. Dauvin, J. Delavenne, J.-M. Dewarumez, L. Dupuis, G. Engelhard, B. Ernande, A. Foveau, C. Garcia, L. Gardel, S. Harrop, R. Just, P. Koubbi, V. Lauria, G.J. Meaden, J. Morin, Y. Ota, E. Rostiaux, R. Smith, N. Spilmont, Y. Verin, and C. Warembourg. 2010. The Charm Project: defying the Channel's loss by facing environmental challenges across borders. *ICES Annual Science Conference*

(Nantes, France), ICES CM/R:08

Martin, C. S., G. J. Meaden, A. Carpentier, J.- C. Dauvin, N. Desroy, J.- M. Dewarumez, B. Ernande, A. Foveau, C. Garcia, and S. Vaz. (2009) Chapter 8. Channel Habitat Atlas for Marine Resources Management (CHARM) - An aid to management of a resource stressed area. In Ocean Globe, J. Bremen (Ed.), ESRI Press. Redlands CA, USA, in press

Villanueva M.C., Ernande B., Delpeche J.-P. Modélisation trophique de la Manche orientale: où sommes nous? Assemblée Générale GIS - SIEGMA. Département de Géologie, Université de Rouen, 25 juin 2009.

CHARM II (2009) Channel Habitat Atlas for marine Resource Management, rapport final / Atlas des habitats des ressources marines de la Manche orientale, phase II (CHARM II), final report. INTERREG 3a Programme, IFREMER, Boulogne-sur-mer, France. 626 pp.

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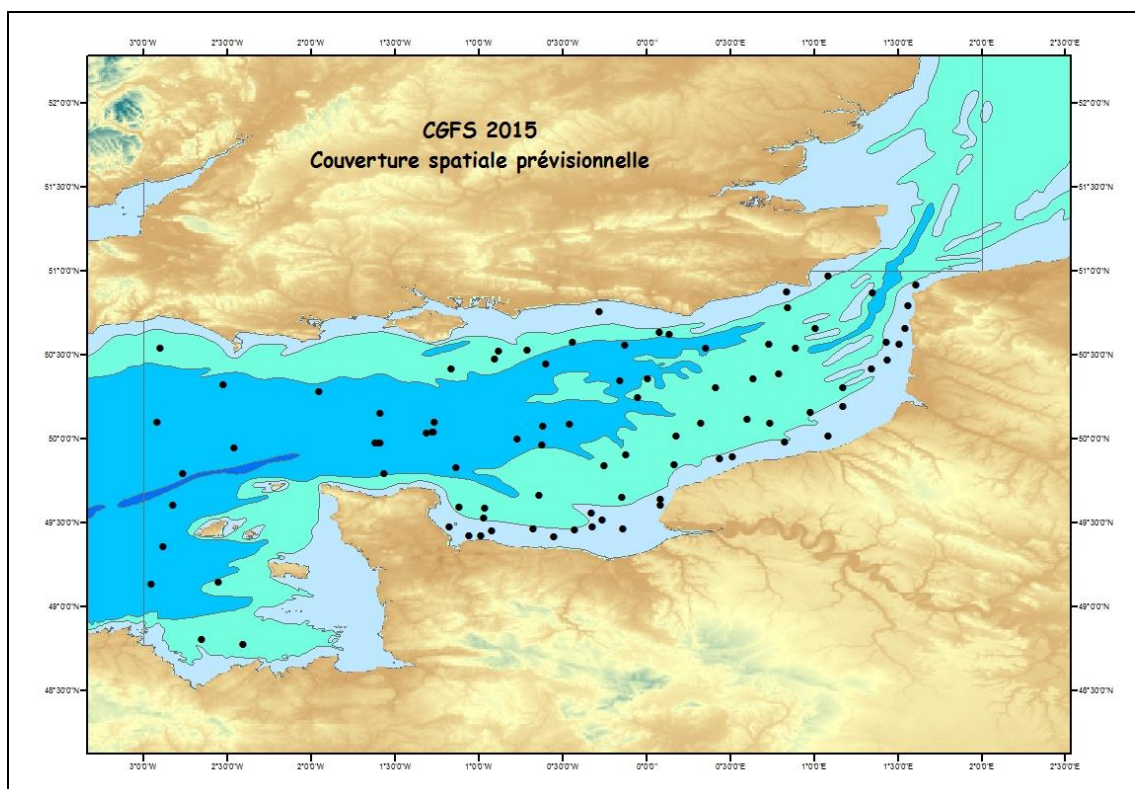
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3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.

From 48.30°N, 4.0°W to 51.0°N, 2.0°E

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.



4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	THALASSA
Type/Class:	Research vessel
Flag	French
Identification Number (IMO/Lloyds No.):	IMO=9070307
Owner:	IFREMER
Operator:	GENAVIR
Overall length (meters):	74,5 m
Maximum draught:	6,10 m
Displacement/Gross Tonnage:	2 803 UMS
Propulsion:	Diesel Electric

Cruising & maximum speed:	11 knots
Call sign:	FNFP
INMARSAT number and method and capability of communication (including emergency frequencies):	Method and capability of communication (including telex, frequencies) : - GSM : 33.6.07.32.44.87 (bridge) - 33.6.16.87.10.69 (captain) Fax : 33.6.20.18.50.20 Inmarsat : Tel : 00.870.7.731.600.16 (bridge) - Fax : 00.870.7.831.600.57 - Vsat : Tel : 33.2.98.22.48.05 (bridge) - Fax : 33.2.98.22.48.06 - Telex Inmarsat C1 : 058x.4.227.297.10 - Telex Inmarsat C2 : 058x.4.227.297.11 (Codes: East Atlantic: 0581 - West Atlantic: 0584 - Pacific : 0582 - Indian Ocean: 0581) email : TL.Commandant@thalassa.ifremer.fr Email Telex C1 : ThalassaC1@skyfile-c.com Email Telex C2 : ThalassaC2@skyfile-c.com
Name of Master:	Loïc PROVOST
Number of Crew:	25
Number of Scientists on board:	25

4.2 Particulars of Aircraft:	
Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication (including emergency frequencies):	

Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater Vehicle (AUV):	
Name:	
Manufacturer and make/model:	
Nationality (Flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication (including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:
NA

4.5 Particulars of methods and full description of scientific instruments to be used(for fishing gear specify type and dimension)		
Types of samples and Measurements:	Methods to be used:	Instruments to be used:
Samples of various fishes by bottom trawl (see chart)	A Bottom trawl is deployed during 30 mn (speed 4 knots)	GOV 36/47 (Grande Ouverture Verticale) with a double codent in 20 mm meshsize (stretched)
Temperature and salinity measurements, phytoplankton sample	A CTD is deployed after each trawl and net station to measure the vertical profile of physic-chemical parameters.	CTD (Seabird SBE 19) coupled with a Niskin bottle
Samples of fish eggs to know eggs areas in the Southern North Sea	Sea water is pumped at 3 meters under water surface (internal pump) and filtered in order to sort fish eggs	Continuous Underway Fish Eggs Sampler (CUFES)
Samples of zooplankton	Vertical samples with a plankton net	A vertical net WP2 and occasionally WP3 (near French estuaries)
Acoustic records	With an echosounder, data are recorded during hauls and during transects	Sounder : ER 60 and Multibeam echosounder ME 70

4.6 Indicate nature and quantity of substances to be released into the marine environment:
Fish and benthic organism

4.7 Indicate whether drilling will be carried out. If yes, please specify:
NA

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name, Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of Detonation, and position in latitude and longitude:
NA

5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):
NA

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:
English Channel from 23/09/2015 to 15/10/2015
6.2 Indicate if multiple entries are expected:
During the survey more than one entry is expected in the UK waters

7. Port Calls

7.1 Dates and Names of intended ports of call:
15th of October : End of the survey in Brest (France)

7.2 Any special logistical requirements at ports of call:
NA

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

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research Project:
The CGFS survey is an international project and scientists or any representative of the coastal State can participate to it. Names of participants must be sent to the scientist in charge at least 3 months before the beginning of the survey. Participant has to provide a medical certificate testify his ability to embark.

8.2 Proposed dates and ports for embarkation/disembarkation:
Boulogne sur Mer (France) to Brest (France) : 23/09/2015 – 15/10/2015

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include The expected dates of submission of the data and research results:
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All data and reports are available to ICES (Copenhagen) generally 6 months after the survey at <http://datras.ices.dk/Home/Default.aspx>

9.2 Anticipated dates of submission to the coastal State of the final report:

9.3 Proposed means for access by coastal State to data (including format) and samples:

Data are stored at the ICES and available on the website
Specific data could be asked directly to the scientist in charge of the survey
(Franck.coppin@ifremer.fr)

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:

(see 9.3)

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples And research results:

(see 9.3)

9.6 Proposed means of making results internationally available:

(see 9.3)

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

Signature:



Contact information of the focal point:

Name: Coppin

Country: France

Affiliation: IFREMER

Address: BP 699 150 quai Gambetta Boulogne sur mer

Telephone: +33321995600

Fax: +33213995601

Email: Franck.Coppin@ifremer.fr