

2015 French oceanographic cruises report



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Introduction

This document reports on the French oceanographic cruises conducted in 2015. It was drawn up by IFREMER, and more specifically by the SISMER (French acronym for Scientific information systems for the SEA) department which is in charge of managing the metadata and data produced by French research cruises.

It provides a detailed description of the role of the various players managing French ocean-going facilities and of the means to archive cruise information and oceanographic data. It presents the fleet's activity in 2015 and provides dynamic access to cruise information through the new research cruise catalogue: <http://campagnes.flotteoceanographique.fr/>.

The electronic version of this document is available at the following address:

<http://doi.org/10.13155/45362>.

Clicking on the hypertext links gives direct access to the cruise descriptions.

Previous years' reports for French oceanographic cruises are also available via the Archimer website IFREMER'S institutional archive, at: <http://archimer.ifremer.fr/>.

SISMER thanks:

- ✓ the chief scientists of 2015 cruises,
- ✓ GENAVIR,
- ✓ Aurélie Feld, Sylvie Van Iseghem and Jean-Xavier Castrec (IFREMER/DMON),
- ✓ Yves Gouriou and Dominique Lopes (IRD),
- ✓ Hélène Léau and Valérie Hadoux (IPEV),
- ✓ Malika Oudia and Pascal Morin (CNFC), and
- ✓ Viviane Bout-Roumazeilles (CNFH).

They have enabled us to collect information required for this report, in particular, and to contribute to increasing the value of the sea measurements effort.

1 Those involved

The main ocean research vessels are managed by the following organizations:

- **CNRS/INSU** (French national scientific research center / national institute for sciences of the universe),
- **IFREMER** (French research institute for exploitation of the sea),
- **IPEV** (French polar institute – Paul Emile Victor),
- **IRD** (Institute of research and development),
- **FRENCH NAVY/SHOM** (French Navy's hydrographic and oceanographic service).

The first 4 organizations are grouped together in a joint service unit, JSU FRENCH OCEANOGRAPHIC FLEET OR UMS-FOF, whose objective is the coordinated management of the French oceanographic fleet major research infrastructure (MRI) giving priority to serving the scientific community, in compliance with the specificities of its members, specifically based on the assessment of proposals for scientific and technological research cruises carried out by the national assessment committees (CNFH and CNFC).

The French scientific community also has access to other European vessels (United Kingdom, Germany, Spain, The Netherlands, Norway) through the OFEG (Ocean Facilities Exchange Group) which IFREMER belongs to.

Finally, SISMER ensures that the data related to these cruises are permanently stored.

1.1 FRENCH OCEANOGRAPHIC FLEET UMS JOINT SERVICE UNIT AND ASSESSMENT COMMISSIONS

Since 2008, the French sea-going facilities for oceanographic research from CNRS, IFREMER, IPEV and IRD have made up the French oceanographic fleet major research infrastructure (FOF MRI).

A significant step was made for integration of French ocean-going resources, under the aegis of the Ministry of Higher Education and Research, in March 2011, when the French oceanographic fleet joint service unit (UMS) - was created, initially for a 4-year period, then extended by two years.

The JSU's assigned objective is to improve the management of the French ocean research fleet, shared by the four operators up until then.

Setting up this Joint Service Unit with unified governance should give the public authorities an overarching view of this Major Research Infrastructure (MRI) in the framework of supervising public policies and clear the way for a comprehensive strategic vision which is currently lacking.

To meet this objective, **three missions** have been defined:

- develop integrated scheduling of vessels and large-scale equipment open to national calls for tender (offshore and inshore).
- ensure foresight, defining and coordinating the fleet development plan, taking into account the requirements of national public-sector operators who are not members of the JSU (i.e. TAAF, FRENCH NAVY),
- and coordinate investment policies.

On the JSU FLEET WEBSITE (<http://www.flotteoceanographique.fr/>) are descriptions and activity of all vessels and vehicles of all JSU members, cruise schedules and information about cruise applications and cruises conducted.

In deciding on the scheduling for seagoing facilities, the FLEET JSU steering committee relies, amongst other things, on the assessments of ocean research cruise proposals made by two national commissions following the national call for ocean-going and coastal cruises:

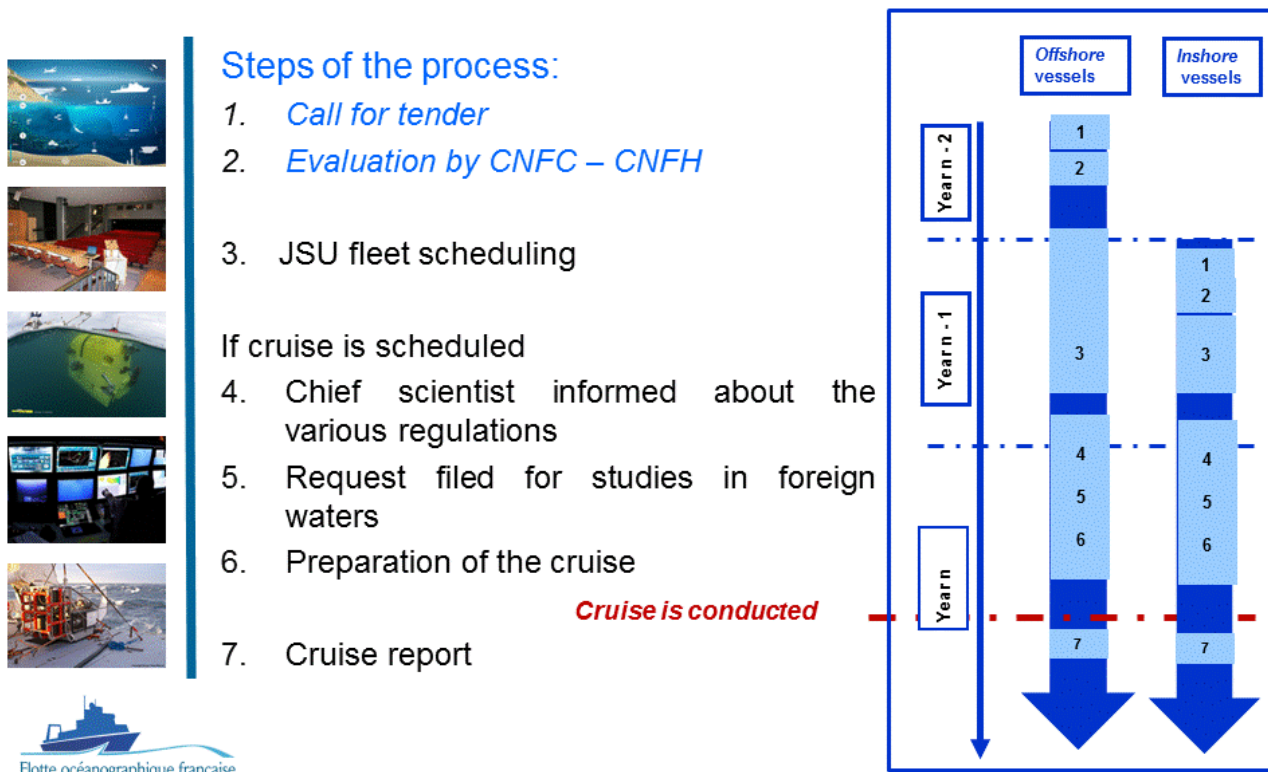
- the **National ocean-going fleet commission (CNFH)**, for cruise projects requiring ocean research vessels from the French offshore oceanographic fleet.
- the **National coastal fleet commission (CNFH)**, for cruise projects requiring ocean research vessels from the French inshore oceanographic fleet.

The role of these commissions is also to:

- assess, a posteriori, the results from coastal oceanographic cruises performed using French oceanographic resources; and
- respond to requests from the Scientific and strategic orientations committee (COSS) to take part in drawing up advice concerning the sea-going resources for oceanographic research.

The diagram below shows how the cruise process functions, from application to achievement.

The scheduling process




1.2 SISMER

It has been proved that without permanent archiving, done following well established standards, 30% of data acquired is lost by the end of 10 years. The cost of using facilities for data acquisition at sea is so high that it is essential to implement the resources and means necessary for good data preservation.

SISMER is an IFREMER department located at its Brittany center. It is part of the IDM (marine information systems and data) unit of the IMN department of Marine and Digital Infrastructure.

It is France's national coordinator for international data exchanges in the framework of the "International Oceanographic Data and Information Exchange"(IODE)' programme of UNESCO's Intergovernmental Oceanographic Commission (IOC).



To meet the needs of the scientific community, it works with the ISI (Information systems engineering) service in the IDM (IT and marine data) department to develop and use marine-related information systems and databases. The service manages and archives the data collected during French oceanographic cruises and keeps an inventory of them. It also manages real-time data from various operational oceanographic systems (Coriolis database).

SISMER manages the French national oceanographic database, which under very specific rules protects, standardizes and disseminates, data from various fields of marine science, like hydrology, marine biochemistry, currentometry, gravimetry, magnetometry, seismics, bathymetry, acoustic imaging, physical-chemical seabed characteristics and the deep sea environment. The data can also come from French research laboratories taking part in surveys at sea.

Sismer archives the data, along with information about its source, the experimental conditions and collection methodology (metadata). It applies quality control in accordance with international standards and distributes the data and metadata using standardized formats.

It makes an active contribution to French, European and international working groups devoted to standardization and exchange of data. It coordinates the SeaDataNet pan-European marine data center network, whose aim is to link the main European oceanographic data centers and thus give users access on line to distributed databases through a single portal.

Data which is incorrectly or not archived will ultimately be lost for good.

Cruise data which is incorrectly referenced (CSR sheet incorrectly or not completed) cannot be accessed and are therefore ultimately lost.

The value, in both scientific and financial terms, of data acquired at sea represents a legacy which must be preserved.

2 Oceanographic cruises

2.1 DEFINITION

An "oceanographic cruise" is a set of days during which a vessel acquired observational data. This can be outings of one day (station vessels), several days (inshore vessels) or several weeks (offshore vessels).

"French cruise" means a cruise for which the home organization of the client (chief scientist) - or of the contracting authority - is French.

Any cruise classified « Confidential Defence » or considered as such is not listed in this document. Those cruises are taken into account for the historical report, but are not counted in the yearly report.

2.2 CRUISE LISTING

Taking inventory of cruises is done in several steps:

- Using the scheduled ocean cruise programs. This is done with the help of the people in charge of ship management;

– At the end of each cruise, the chief scientists are requested to send a description of their cruise to SISMER. The summary can be completed directly on line (<http://forms.ifremer.fr/sismer/csr/>).

A template (called a CSR – Cruise Summary Report sheet) is also available on the SISMER WEBSITE found here: http://www.ifremer.fr/sismer/FR/catal/campagne/Fiche_CSR_FR.htm or, for vessels of the JSU, in the [Compte-rendu de la campagne](#) report made available on the FLEET JSU website.

This action is carried out in compliance with the procedure followed aboard the vessels of the JSU (<http://www.flotteoceanographique.fr/Campagnes-scientifiques>) and with the "Vade-Mecum for inshore oceanographic vessels users' guide" (<http://cir.dt.insu.cnrs.fr/docfiches.html>) for INSU, IFREMER and IRD.

– The information thus gathered is then archived in the SISMER database. Each cruise is given a track number (single identifier).

A DOI (Digital Object Identifier) is also assigned to each non-confidential cruise performed aboard a vessel of the Fleet JSU and whose chief scientist is clearly identified.

These DOI enable the cruises to be reliably and lastingly cited in scientific publications. Their main objective is to describe the cruises as scientific experiments and highlight the French fleet.

2.3 CHIEF SCIENTISTS' RULES AND DUTIES

In keeping with the protocol in effect, once the chief scientist has been notified that the cruise has been scheduled, he or she must learn about a number of regulations and inform all the members of the scientific team who will embark about them. These texts especially deal with: the [rights and obligations in terms of archiving and disseminating data](#), acquired aboard vessels, and the [role the chief scientist is expected to play](#) on board the vessel.

The process for carrying out cruises, along with the protocols and related documents for [offshore](#) and [inshore](#) cruises can be accessed on the FLEET JSU website.

2.4 TRANSMISSION OF SUMMARIES

In the framework of the European SeaDataNet – pan-European Infrastructure for marine data programme (<http://www.seadatanet.org/>), these cruise summaries are sent to BSH/DOD (German data center) which qui ensures that the European CSR are disseminated worldwide, particularly to [CIEM/ICES](#) (International Council for Exploration of the Sea).

3 Access to cruises and data

The full inventory of *oceanographic cruises* in the French database and *their related data* contains information covering almost a century of measurements taken at sea.

It can be accessed at the following URL:

<http://campagnes.flotteoceanographique.fr/>

The screenshot shows the website 'French Oceanographic Cruises' with a search bar and filters. The search results are sorted by date, showing 8416 results. The filters include 'YEAR' (2016 to 2009) and 'SHIP' (Ailette, Albert Christine, Albert Lucas, Alcyon, Alidade, Alis, Almoravide, Amalthee). The results list three cruises:

- MOOSE-GE 2016**
Responsable(s) : COPPOLA Laurent
The main objective of the MOOSE project is to observe the long-term evolution of the Northwestern Mediterranean Sea in the context of the climate change and anthropogenic pressure (over 10 years) in order to be able to detect and identify long-term environmental trend and anomalies of the marine ecosystem. The annual cruise focuses on moorings maintenance and hydrology, biogeochemistry and biology monitoring of the Northwestern Mediterranean basin. It aims to follow variability of water masses properties [...]
19/05/2016 - 09/06/2016, L'Atalante, Mediterranean Sea, Western Basin, Golfe du Lion et Mer Ligurie
- PELGAS 2016**
Responsable(s) : DORAY Mathieu, DUHAMEL Erwan, HURET Martin, PETITGAS Pierre
La série de campagne PELGAS répond à la nécessité d'évaluer l'abondance des petits pélagiques du golfe de Gascogne, afin d'assurer la durabilité de leur exploitation par la pêche. L'Europe cofinance la campagne PELGAS afin d'assurer la fourniture des indices d'abondances d'anchois et sardine aux groupes de travail internationaux chargés de l'évaluation de ces stocks. Le second objectif des campagnes PELGAS est de surveiller l'écosystème pélagique du golfe de Gascogne au printemps. Cette surveillance [...]
29/04/2016 - 02/06/2016, Thalassa, Bay of Biscay
- DYNAMOSEINE 2016**
Responsable(s) : HUGUET Arnaud

This portal provides cartographic and interactive consultation and search functions for cruise data. It also enables data to be retrieved or ordered on line, using the check-out and form to be completed on the server, in compliance with the degree of confidentiality.

French research cruises and their data are incorporated in the SeaDataNet project's European catalogues (<http://www.seadatanet.org/>). Information about the cruises can be found at: http://seadata.bsh.de/csr/retrieve/sdn2_index.html, and their data is on the SeaDataNet http://seadatanet.maris2.nl/v_cdi_v3/search.asp website.

The database which can be accessed from the international POGO server: <http://www.pogo-oceancruises.org/> gives the scheduled cruises of research vessels over 60 m LOA for a dozen countries. SISMER sends it the planned cruise schedules for its largest vessels. These plans are also included in the EU Eurofleets 2 project.

Along with the cruise inventory, data from various fields of ocean research are also archived. They include marine physics, chemistry, biology, geology and geophysics, as well as exploratory fisheries and technology. SISMER archives and disseminates part of the data collected aboard French research vessels - primarily those of FLEET JSU vessels - and observation systems.



The data are transmitted following one of the following patterns:

Sent directly to SISMER at the end of the mission:

- Raw data acquired using French facilities managed by IFREMER (major facilities),
- Single- and multi-beam bathymetric data,
- Gravimetry data,
- Magnetometry data
- Seismic reflection data,
- Sonar imaging data (sidescan sonars, multibeam echo sounders),
- Navigational data,
- Shipboard ADCP data from RV *L'Atalante*, *Thalassa*, *Le Suroît*, *Beautemps-Beaupré*, *Pourquoi Pas ?*.
- Data from underwater vehicles,
- Fisheries data.

Data requiring laboratory processing:

These data are transmitted once measurements have been validated or samples analyzed:

- Marine physical and biochemical data collected at hydrological stations (CTD and bottle casts);
- Eulerian or Lagrangian time series (currentometry, temperature, deep-sea tide gauges),
- Geological samples and analyses.

Data transmitted in real time:

When the ship is so equipped, data can be sent directly in real time for the needs of modeling experts in the framework of operational oceanographic projects:

- CTD and XBT from some cruises,

Data compilations:

SISMER manages and distributes archives of data and data compilation products: theme-based databases, digital terrain models (MNT), maps and atlases which are created in partnership with other scientific centers and laboratories, in the framework of French, European and international programs:

The Sextant portal (marine and coastal geographical data infrastructures) provides a catalogue of baseline reference data related to the marine environment: <http://sextant.ifremer.fr/fr/>

4 Cruises report

Each year, the cruise database is enriched with new data. Sometimes we also recover information about older cruises, particularly when a link to a bibliography or to data is requested.

4.1 BACKGROUND

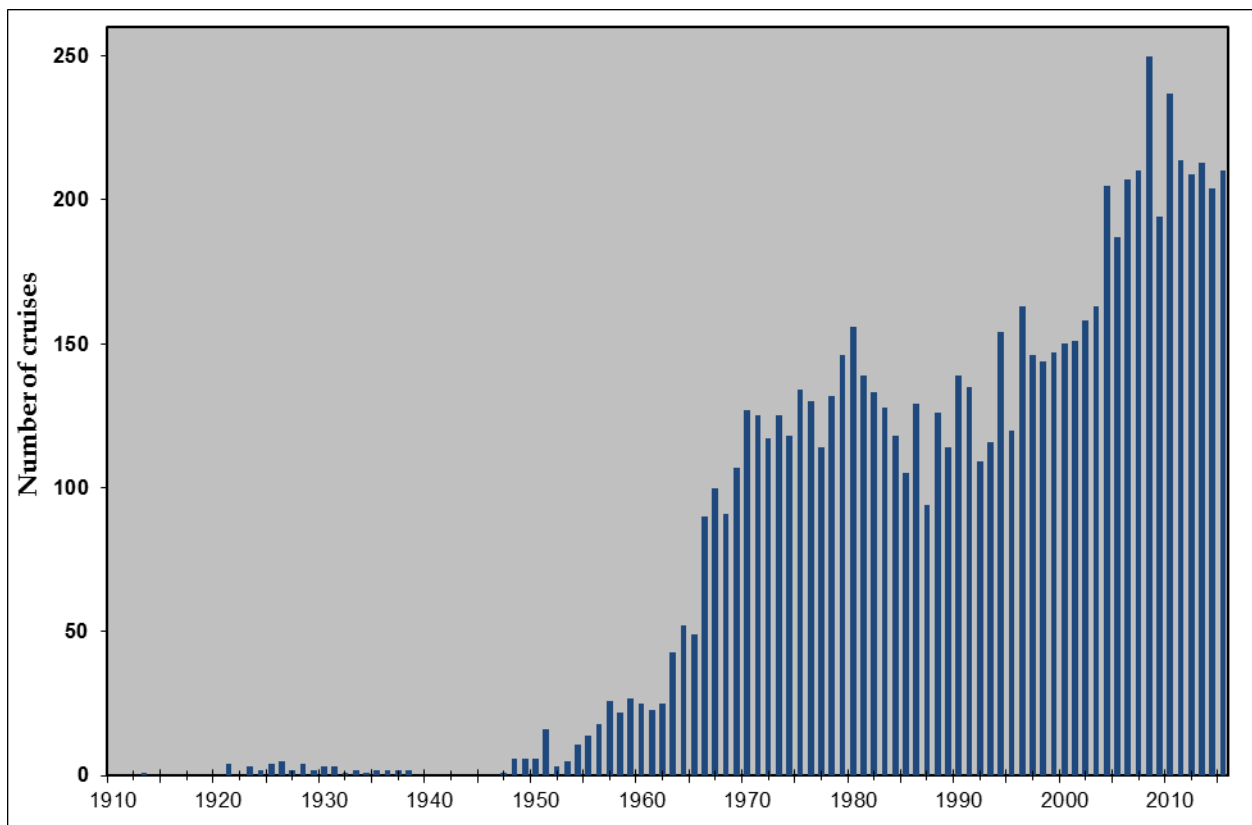
In all, SISMER has catalogued 7,911 French oceanographic cruises (broadly speaking, without any confidentiality criteria) since 1913, including:

- ✓ 6,761 cruises (strictly speaking),
- ✓ 704 simple or piggy-back transits,
- ✓ 337 sea-trial or shake-down cruises,
- ✓ 54 service provisions,
- ✓ 55 other cruises.

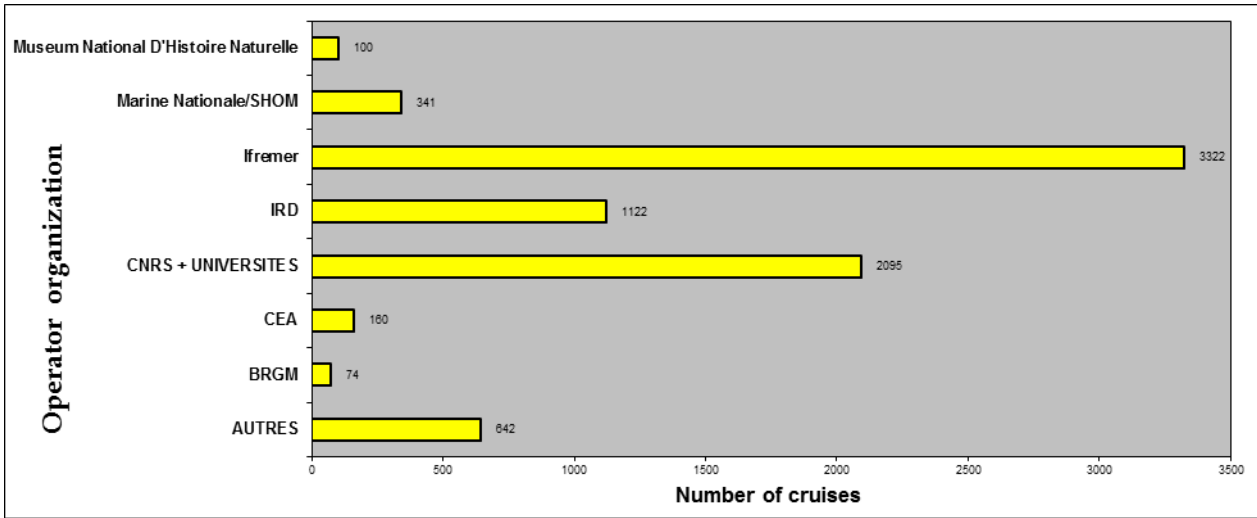
Only 7,856 cruises (not including these "other cruises") are covered in this report's statistics.

In the past, cruises were generally conducted by the former Scientific and technical fisheries institute (ISTPM) and by the French Navy's hydrographic and oceanographic service (FRENCH NAVY/SHOM). Later, other organizations like the CNRS, IRD (formerly ORSTOM), IPEV (formerly IFRTP), the National museum of natural history (MNHN), CNEXO (National center for exploitation of the oceans) and then IFREMER (created by merging ISTPM-CNEXO) greatly contributed to the efforts to collect measurements at sea, using their own facilities. Currently, the growing number of European projects and international programs for ship time sharing mean that a number of French cruises are made aboard foreign vessels.

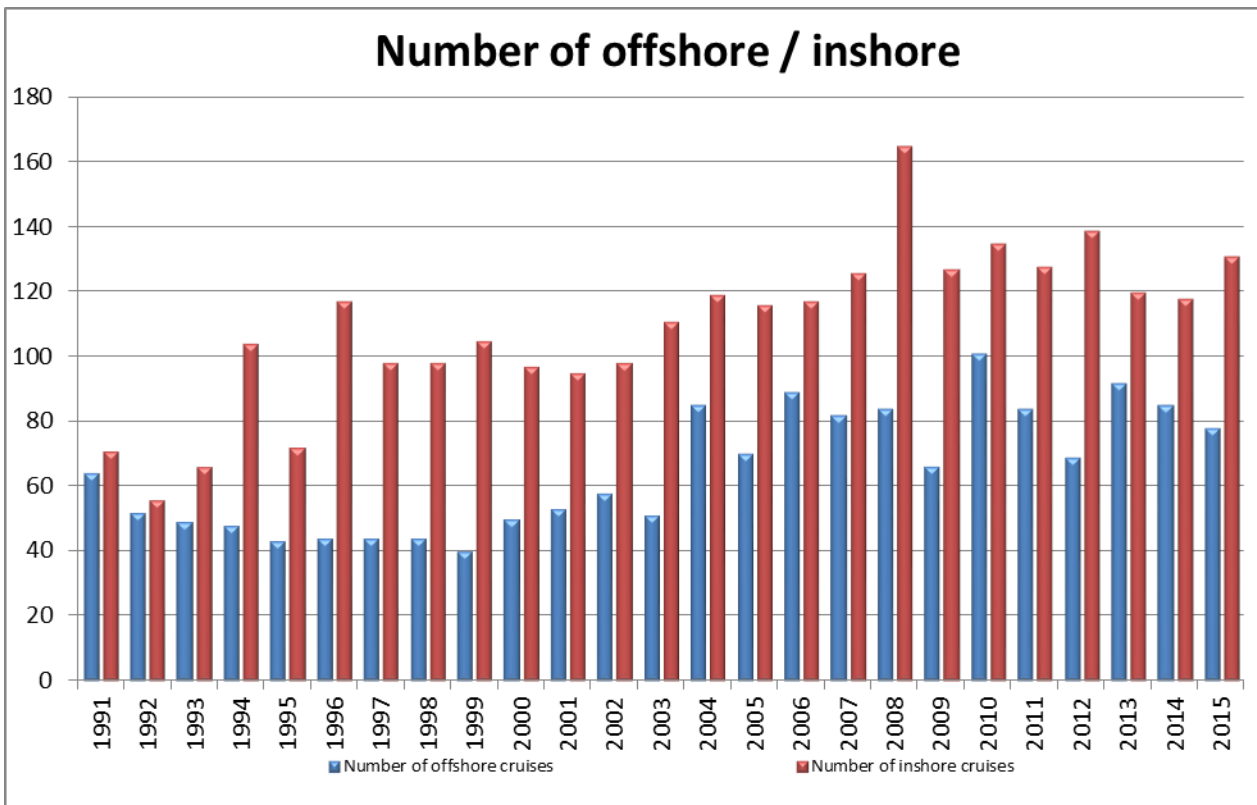
The 7,856 French cruises (including ocean research cruises, simple transit and piggyback missions, sea trial cruises and commercial service provision) can be broken down over time, since 1913, as follows:



The main client organizations (usually the organization which the chief scientist belongs to) for these cruises were:



The graph below shows trends for offshore (ship >= 50 m LOA) and inshore (ship <= 50 m LOA) cruises over the past 25 years.



The number of both ocean-going and inshore cruises has been growing over these 25 years. However, this seems to have stabilized over the past ten years or so at around 130 cruises per year for inshore vessels and those belonging to stations and 80 cruises per year for offshore vessels.

4.2 YEAR 2015

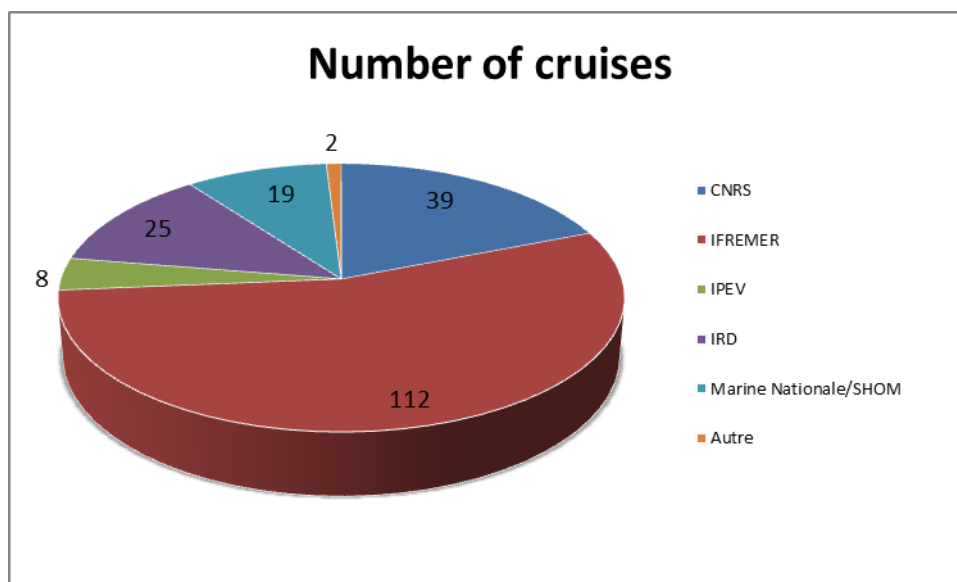
In 2015, 205 French cruises (oceanographic, trials, transits and commercial service performance, not classified as "Confidential") were recorded at SISMER for offshore and inshore vessels.

This is not entirely representative of the French fleet, since there were also cruises conducted on station vessels, but they have not been referenced at SISMER for the moment. However, the schedules for these vessels can be accessed on line:

<http://www.flotteoceanographique.fr/Calendriers-des-campagnes/Calendriers-navires-de-station>

4.2.1 Breakdown of cruises by managing organization

The managing organization is the shipowner.



4.2.2 Breakdown of cruises by client organization

The client organization is the contracting authority requesting the cruise (generally represented by the 1st chief scientist).

Chief scientist's organization	Number of cruises
BRGM	2
CEA	2
CNRS + UNIVERSITIES	56
Directorate for industry, mines and energy	1
IPEV	1
IRD	8
IFREMER	102
Institut Francais du Petrole	1
French Navy/SHOM	26
Ministry of ecology and sustainable development	3
National museum of natural history	1
Secretariat general of the Pacific community	2
TOTAL	205

As regards the chief scientists, the same main organizations are present each year. Other organizations appear on a more occasional basis.

4.3 CRUISES BY VESSEL

This report presents the activity of vessels in the French fleet as comprehensively as possible.

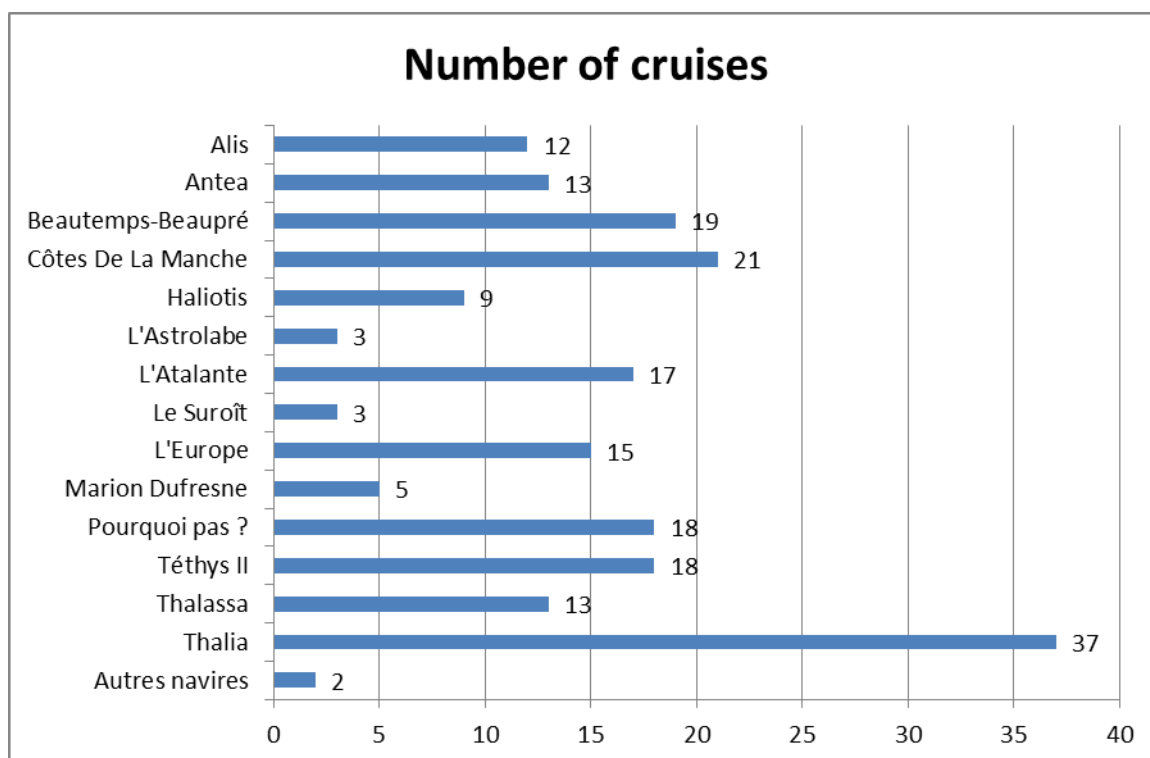
Some of the cruises have been referenced at SISMER, meaning that their chief scientist sent us their data at the end of the cruise by filling out the CSR sheet.

Training cruises are not referenced at SISMER, so they are listed in paragraph 4.3.2.

Steps are being taken to try and obtain the same outcome for station boats, but some time is still needed to achieve this.

4.3.1 Cruises referenced at SISMER

The 205 cruises from 2015 referenced at SISMER were carried out aboard 9 offshore ocean research vessels, 5 inshore oceanographic vessels, 2 station boats and 2 underwater vehicles (*NAUTILE* and *ROV VICTOR 6000*). The WEBSITE of the JSU <http://www.flotteoceanographique.fr/La-flotte/Navires> provides a detailed description of the fleet.



The 2015 cruises are presented below, listed by vessel and indicating spatial location and time period. A full list of cruises in alphabetical order and for all vessels is also provided at the end of the document.

4.3.1.1 Cruises by L'Alis

RV Alis is a 28.50 m trawler operating in the South-West Pacific Ocean from French Polynesia to Papua-New Guinea. The vessel is based in New Caledonia. It is operated by IRD.

It performs oceanographic missions for physics (umbilical cable, shipboard ADCP, etc.), biology (trawling, ER 60 4 frequency echo-sounder, scanmar sensor, etc.) and bathymetrics (EM1002 multibeam echo-sounder). It is also used as a support ship for diving missions (studying biodiversity, etc.).

Here are its main characteristics:



Coastal vessel
NODC code: 35AY
Call sign: FHQB
Length 28m
Crew: 12
Scientists and technicians: 6

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Alis>

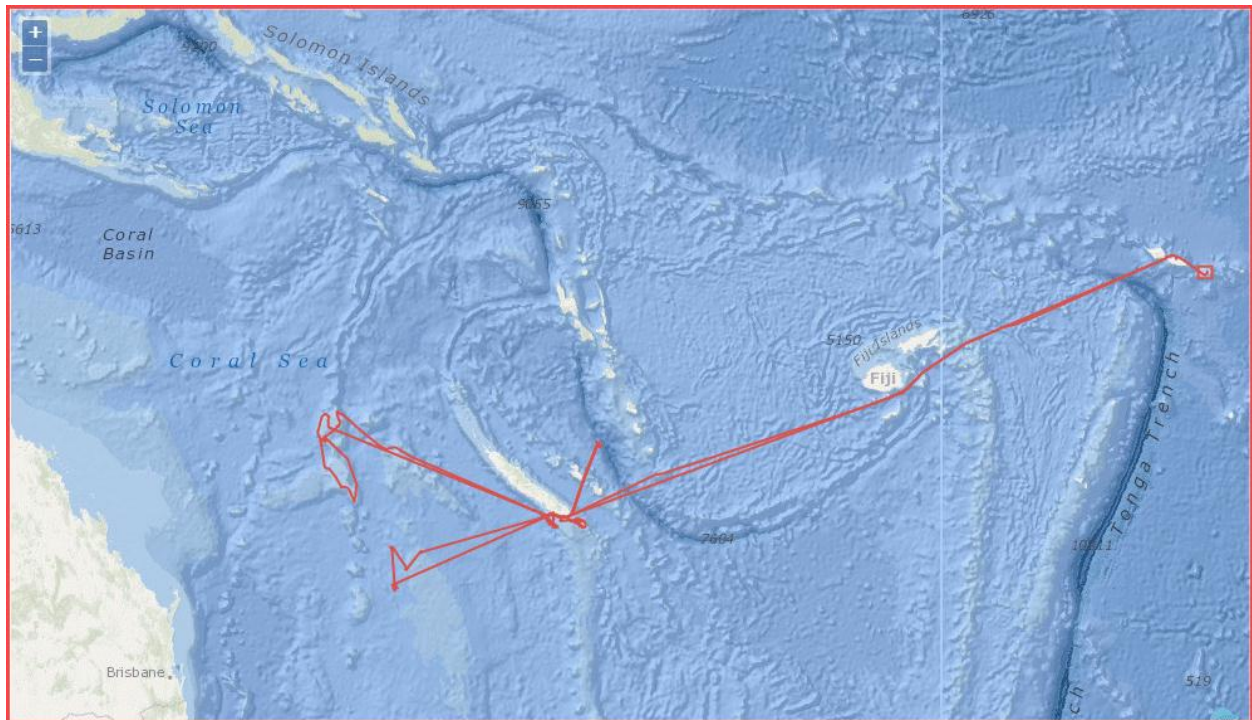


Figure 1 — Tracks of 12 cruises and legs in transit by *Alis* in 2015

SPOT2015-LEG4 (09)

DOUILLET Pascal
From 22/05/15 to 28/05/15

ESS_MOTEUR

From 11/07/15 to 12/07/15

ESSTECH

TREDUNIT Gilles
From 15/07/15 to 15/07/15

ESSAIS CHALUTS

ALLAIN Valérie
From 14/08/15 to 18/08/15

TR_NMAPAG (Transit)

From 18/08/15 to 28/08/15 **SAMOA-SPT**

SCHNEIDER Jean-Luc
From 27/08/15 to 10/09/15

TR_APIINMA (Transit)

From 11/09/15 to 17/09/15

SPOT2015-LEG3 (11)

BIEGALA Isabelle
From 21/09/15 to 26/09/15

CORALCAL-5

PAYRI Claude
From 28/09/15 to 15/10/15

NECTALIS-4

ALLAIN Valérie
From 19/10/15 to 26/10/15

CHEST

MAGALON Hélène
From 05/11/15 to 25/11/15

SPOT2015-LEG4 (12)

DUPOUY Cécile
From 29/11/15 to 02/12/15

4.3.1.2 Cruises by L'Antea

RV Antea is a 35 m-long catamaran operating in the Atlantic and Indian Oceans. The vessel is based in France. It is operated by IRD.

It performs oceanographic missions for physics (umbilical cable, shipboard ADCP, etc.) and biology (trawling, ER 60 46-frequency echo-sounder, scanmar sensor, etc.). It is also used as a support ship for diving missions (studying biodiversity, etc.).



Here are its main characteristics:

Coastal vessel
NODC code: 35A8
Call sign: FNUR
Length 35m
Crew: 12
Scientists and technicians: 10

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Antea>

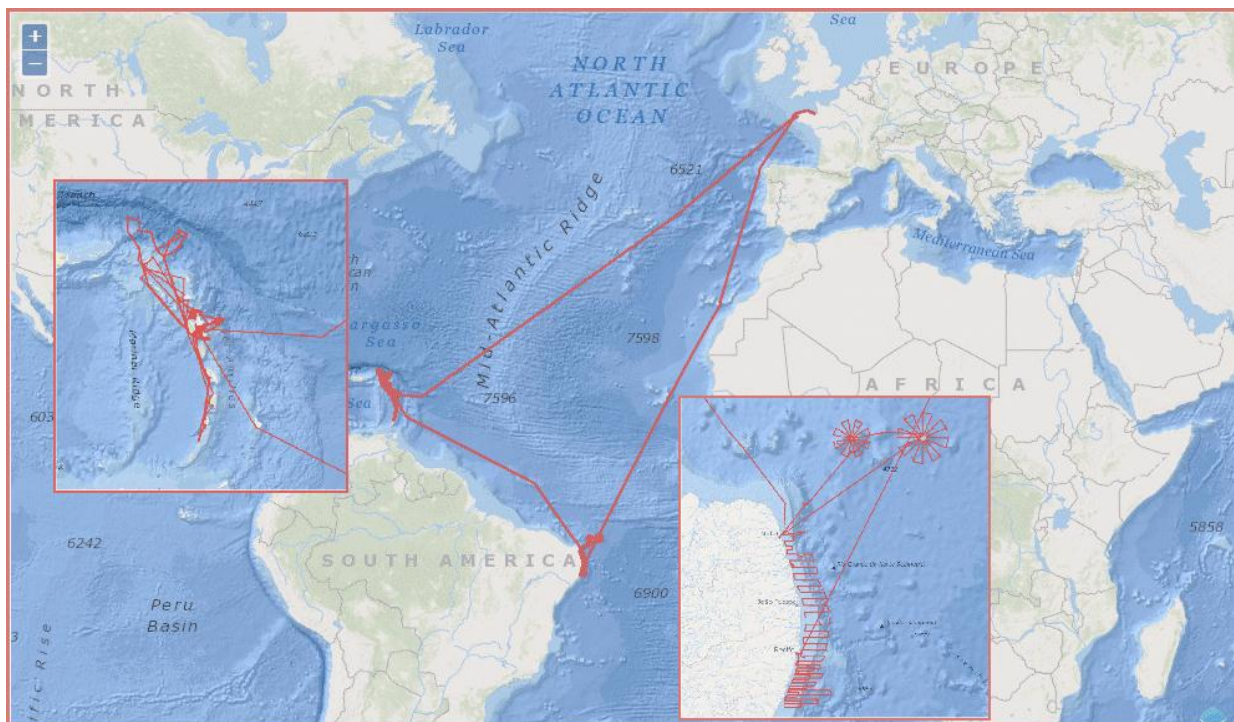


Figure 2 — Tracks of 13 cruises and legs in transit by *Antea* in 2015

TR_SMABRE (Transit)
From 10/01/15 to 11/01/15
TR_BREPAP (Transit)
From 14/01/15 to 03/02/15
ANTITHESIS2 DEPLO
MARCAILLOU Boris
From 02/02/15 to 07/02/15
PACOTILLES-1
FAUVELOT Cécile
From 21/04/15 to 10/05/15
TR_PAPDFD (Transit)
From 12/05/15 to 13/05/15

PACOTILLES-2
PEREZ Thierry
From 13/05/15 to 02/06/15
TR_FDFPAP (Transit)
From 03/06/15 to 05/06/15
KARUBENTHOS 2
BOUCHET Philippe
CORBARI Laure
From 06/06/15 to 30/06/15
ANTITHESIS2 RECUP
MARCAILLOU Boris
LEBRUN Jean Frédéric
From 02/07/15 to 09/07/15

TR_PAPNAT (Transit)
From 15/09/15 to 27/09/15
ABRACOS
BERTRAND Arnaud
From 29/09/15 to 21/10/15
TR_RECBRE (Transit)
From 22/10/15 to 17/11/15
TR_BRESMA (Transit)
From 18/11/15 to 19/11/15

4.3.1.3 Cruises by *Beautemps-Beaupré*

The hydrographic and oceanographic ship (BHO) *Beautemps-Beaupré* carries out both **military missions** and **general hydrographic studies** on behalf of the French Navy's hydrographic and oceanographic service (SHOM).



Here are its main characteristics:

Ocean-going vessel
NODC code: 35B5
Call sign: FABB
Length 80m
Crew: 26
Scientists and technicians: 25

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Antea>

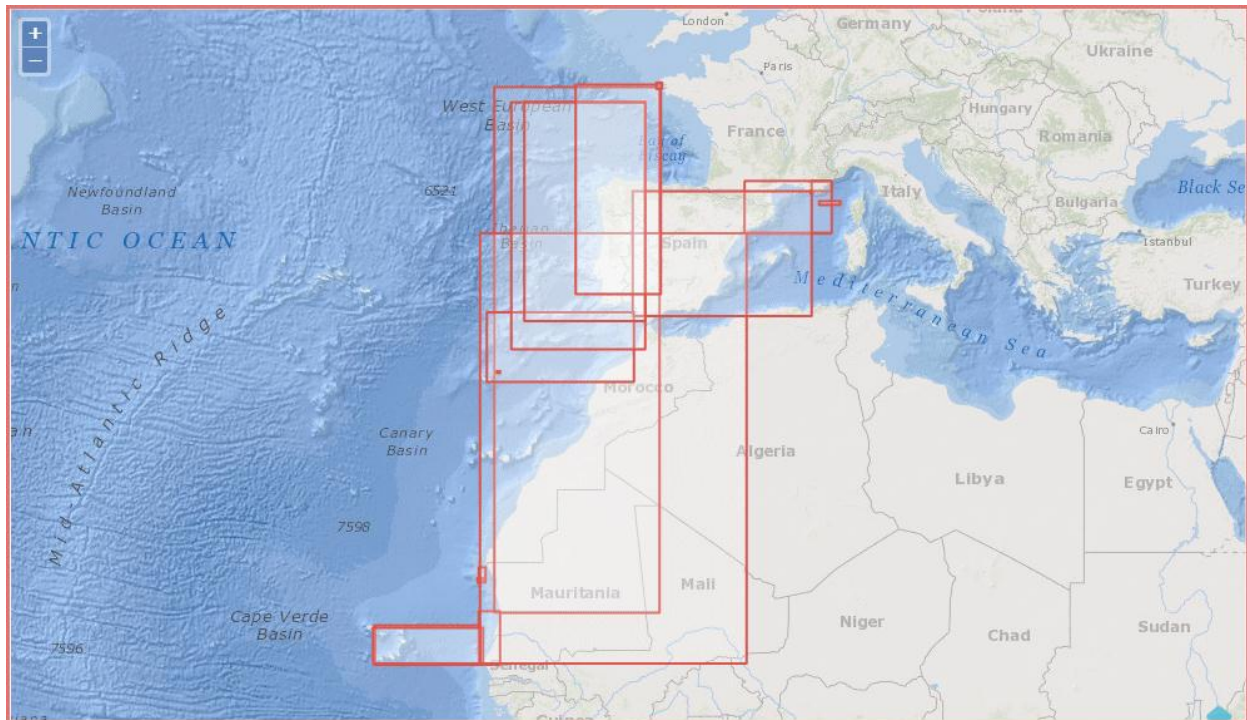


Figure 3 — Tracks of 19 cruises and legs in transit by *Beautemps-Beaupré* in 2015

TV_BREST_NOUAKCHOTT

IETA Adélaïde MISSAULT
From 30/01/15 to 07/02/15

TV_NOUAKCHOTT_DAKAR

IETA Adélaïde MISSAULT
From 09/02/15 to 23/02/15

MAURITANIE_LEG1

IETA Adélaïde MISSAULT
From 12/02/15 to 21/02/15

TV_DAKAR_MINDELO

IETA Adélaïde MISSAULT
From 27/02/15 to 12/03/15

MAURITANIE_LEG2

IETA Adélaïde MISSAULT
From 28/02/15 to 10/03/15

TV_MINDELO_DAKAR

IETA Adélaïde MISSAULT
From 17/03/15 to 29/03/15

MAURITANIE_LEG3

IETA Adélaïde MISSAULT
From 19/03/15 to 27/03/15

TV_DAKAR_TARRAGONE

IETA MOUTON
From 02/04/15 to 12/04/15

PROTEUS_2015

IETA MOUTON
From 16/04/15 to 02/05/15

POSA

IETA MOUTON
From 05/05/15 to 17/05/15

TV_TOULON_MESSINE

IETA MOUTON
From 22/05/15 to 29/05/15

SHOMED

IETA MOUTON
From 23/05/15 to 28/05/15

TV_TOULON_CADIX

IETA MOUTON
From 29/05/15 to 04/06/15

TV_CADIX_FUNCHAL

IETA MOUTON
From 08/06/15 to 22/06/15

TV_FUNCHAL_FUNCHAL

IETA MOUTON
From 27/06/15 to 10/07/15

TV_FUNCHAL_BREST1

IETA MOUTON
From 15/07/15 to 25/07/15

TV_BREST_FUNCHAL

IETA Adélaïde MISSAULT
From 01/08/15 to 05/08/15

TV_FUNCHAL_BREST2

IETA Adélaïde MISSAULT
From 24/09/15 to 27/09/15

DUNES_2015

IETA Adélaïde MISSAULT
From 12/10/15 to 21/10/15

4.3.1.4 Cruises by RV Côtes de la Manche

This oceanographic vessel performs scientific research missions, mainly in the Atlantic Channel area. It can conduct missions lasting about ten days, at distances reaching 200 nautical miles from harbour. This inshore vessel is fitted with instruments and meets the needs of researchers in the fields of marine geosciences, physical and biological oceanography, biogeochemistry and ocean chemistry. It also contributes to long-term marine environmental observation missions and to research and trials missions in various marine technology fields. The vessel can also carry out teaching missions for graduate and post-graduate university levels.

Here are its main characteristics:



Coastal vessel
NODC code: 35C4
Call sign: FQBE
Length 25m
Crew: 7
Scientists and technicians: 8

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-cotiers/Cotes-de-la-Manche>

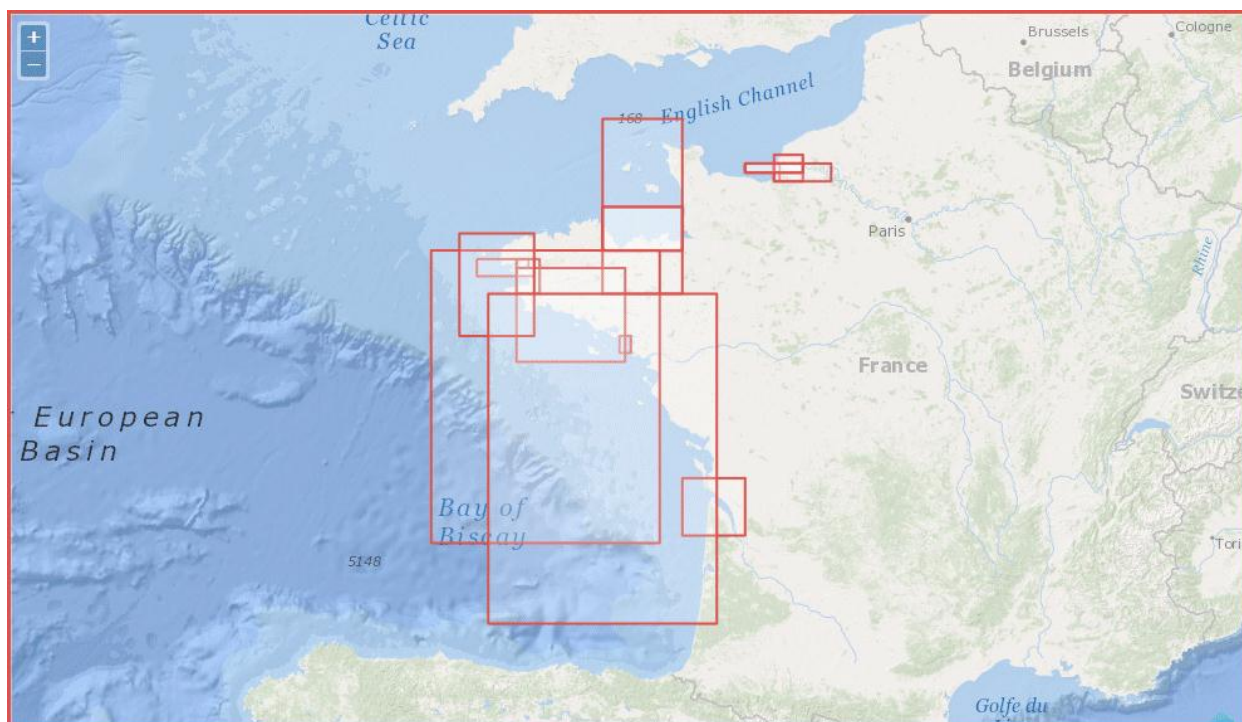


Figure 4 — Tracks of 21 cruises by Côtes de la Manche in 2015

SOGIR 15

DERRIENNIC Hervé
SOTTOLICHIO Aldo
From 12/01/15 to 05/11/15

SYNAPSES LEG1

JACQUET Matthias
VERNEY Romaric
From 20/01/15 to 07/02/15

ESS_ET_PO

DE SAINT LEGER Emmanuel
From 11/02/15 to 11/02/15

CARMOLIT 2015 LEG1

QUEMENER Loïc
From 06/03/15 to 07/03/15

H2O LEG1

LESOURD Sandric
From 15/03/15 to 20/03/15

C2FN-KULLENBERG-ARMORIC

MACE Eric
From 07/04/15 to 09/04/15

ELFIC LEG1

COMTET Thierry
From 20/04/15 to 21/04/15

DYNAMOSEINE LEG1

HUGUET Arnaud
From 25/04/15 to 30/04/15

H2O LEG2

LESOURD Sandric
From 01/05/15 to 03/05/15

TRACES 2015

LAGUONIE Philippe
From 22/05/15 to 29/05/15

REMANTAS

RINNERT Emmanuel
From 14/06/15 to 20/06/15

ELFIC LEG2

COMTET Thierry
From 22/06/15 to 24/06/15

ASPEX7

MARIE Louis
From 01/07/15 to 03/07/15

SYNAPSES LEG2

JACQUET Matthias
VERNEY Romaric
From 13/07/15 to 31/07/15

H2O LEG3

LESOURD Sandric
From 01/08/15 to 03/08/15

ELFIC LEG3

COMTET Thierry
From 07/08/15 to 09/08/15

IPARO

COLAS Florent
From 10/09/15 to 15/09/15

DYNAMOSEINE LEG2

HUGUET Arnaud
From 25/09/15 to 30/09/15

H2O LEG4

LESOURD Sandric
From 01/10/15 to 02/10/15

VAGUES LB

ACCENSI Mickaël
ARDHUIN Fabrice
From 22/10/15 to 28/10/15

ORHAGO 15

BIAIS Gérard
COUPEAU Yann
From 24/11/15 to 13/12/15

4.3.1.5 Cruises by RV *Haliotis*

The oceanographic launch *Haliotis* provides a mapping platform, based first and foremost on acoustic imaging which makes it possible to obtain accurate and reliable information about the nature and the morphology of this very shallow coastal fringe. GENAVIR as been entrusted with managing the vessel.



Here are its main characteristics:

Coastal vessel
NODC code: 35HL
Call sign: FGF5958
Length 10m
Crew: 2
Scientists and technicians: 1

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-cotiers/Haliotis>

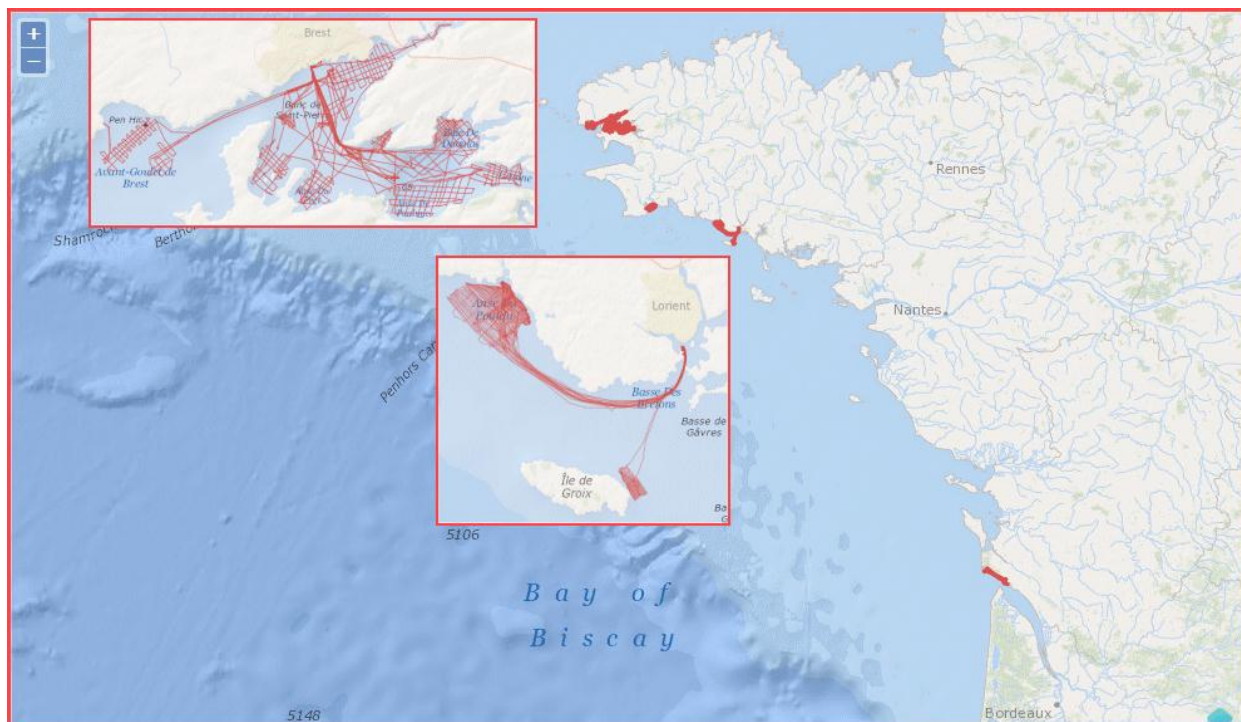


Figure 5 — Tracks of 9 cruises by *I'Halotis* in 2015

SERABEQ-02 LEG1

GREGOIRE Gwendoline
 LE ROY Pascal
 EHRHOLD Axel
 From 16/02/15 to 23/02/15

ESSTECH15-HA

BISQUAY Hervé
 From 17/03/15 to 20/03/15

SERABEQ-02 LEG2

EHRHOLD Axel
 GREGOIRE Gwendoline
 LE ROY Pascal
 From 25/03/15 to 27/03/15

DYNAMO

CHAUMILLON Eric
 From 19/05/15 to 29/05/15

FISSEL 2015 LEG1

HENAFF Alain
 From 01/06/15 to 09/06/15

FISSEL 2015 LEG2

HENAFF Alain
 From 13/06/15 to 17/06/15

FISSEL 2015 LEG3

HENAFF Alain
 From 19/06/15 to 30/06/15

FISSEL 2015 LEG4

HENAFF Alain
 From 01/07/15 to 03/07/15

DARSE

LE DOARE Jacques
 From 11/10/15 to 11/10/15

4.3.1.6 Cruises by L'Astrolabe

L'Astrolabe is a 65 m-long "ice strengthened" supply ship serving the Dumont d'Urville base in Adélie Land. It can embark 49 passengers and several hundreds of tons of food supplies, fuel and equipment. Each year, it is used by IPEV for 120 days, regularly ensuring 5 return trips (*November to March*) over a distance of 2,700 km between Tasmania and the Antarctic continent.

L'Astrolabe is also used for coastal oceanographic surveys of short duration in the Antarctic.



Here are its main characteristics:

Ocean-going vessel
NODC code: 35AC
Call sign: FHZI
Length 65m
Crew: 12
Scientists and technicians: 48

Co-owned by TAAF / IPEV - Managed by IPEV

For more details: http://www.institut-polaire.fr/ipev/bases_et_navires/l_astrolabe

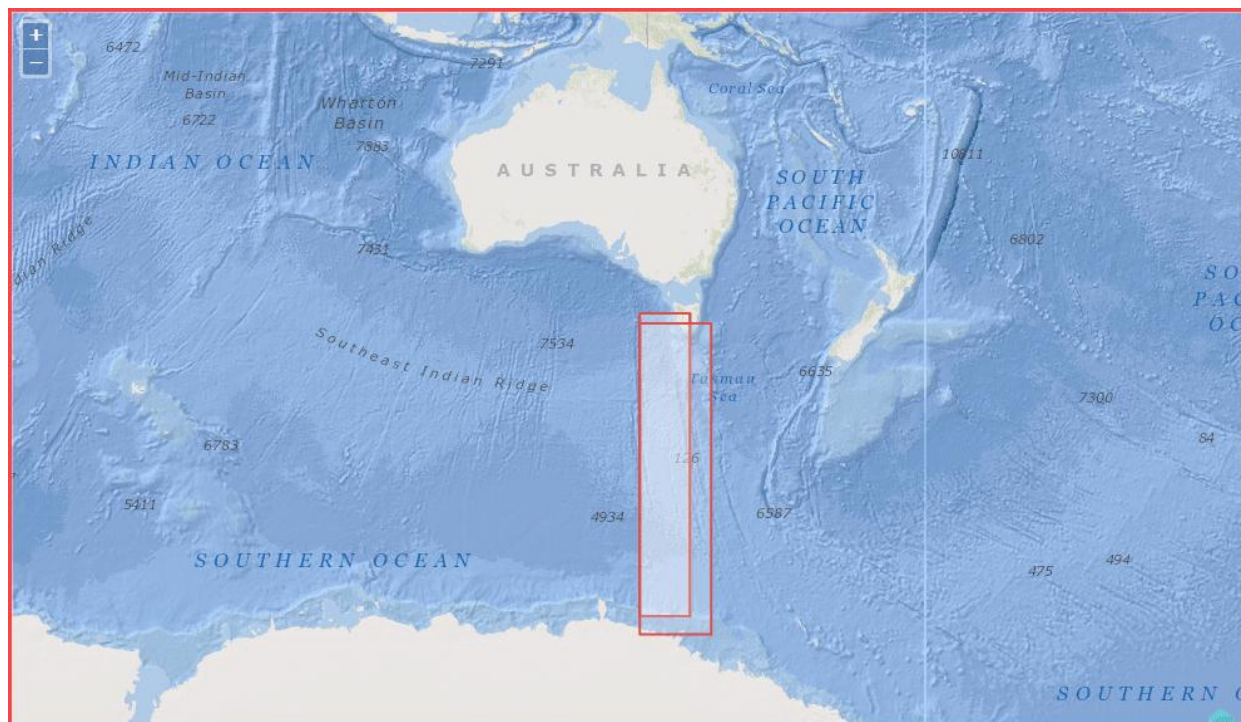


Figure 6 — Tracks of 3 cruises by *L'Astrolabe* in 2015

MINERVE 2015
 TOURATIER Franck
 From 01/03/15 to 19/03/15

SURVOSTRAL 2015/2016
 MORROW-GREINER Rosemary
 From 23/10/15 to 05/03/16

MINERVE 2015/2016
 GOYET Catherine
 TOURATIER Franck
 From 28/11/15 to 05/03/16

4.3.1.7 Cruises by *L'Atalante*

The multidisciplinary research vessel *L'Atalante* is intended for work in marine geosciences, physical oceanography and marine biology.



Here are its main characteristics:

Ocean-going vessel
NODC code: 35A3
Call sign: FNCM
Length 85m
Crew: 17/30
Scientists and technicians: 30

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/L-Atalante>

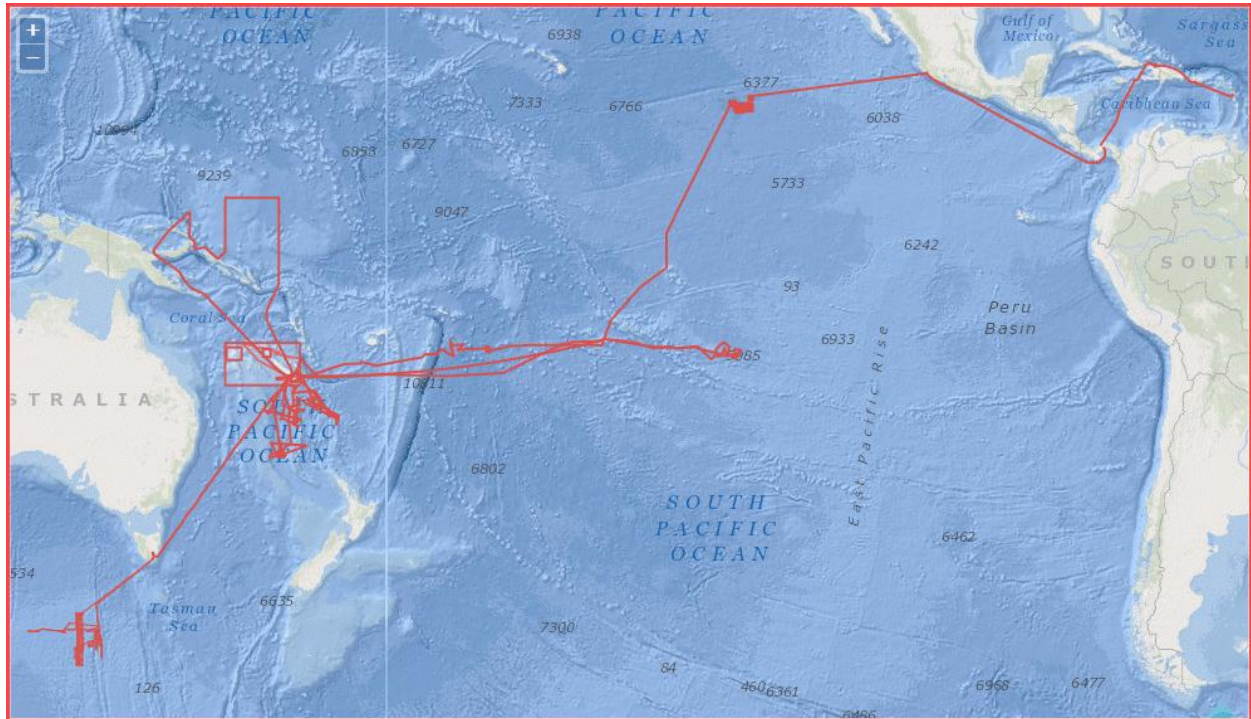


Figure 7 — Tracks of 17 cruises and legs in transit by *L'Atalante* in 2015

STORM

BRIAIS Anne
From 01/01/15 to 04/02/15
TR_HOBNMA (Transit)
From 04/02/15 to 06/02/15

OUTPACE

BONNET Sophie
MOUTIN Thierry
From 18/02/15 to 03/04/15

POLYPLAC2

LOUBRIEU Benoit
From 21/04/15 to 06/05/15

TR_PPTNMA (Transit)

From 08/05/15 to 18/05/15

VESPA

PATRIAT Martin
MORTIMER Nick
From 22/05/15 to 17/06/15

TV_SHOMCAL

LAMARRE (IETA)
From 18/06/15 to 14/07/15

SHOMCAL_GRAND_LAGON_NORD

LAMARRE (IETA)
From 21/06/15 to 25/06/15

SHOMCAL_CHESTERFIEDS

LAMARRE (IETA)
From 27/06/15 to 08/07/15

SHOMCAL_SARCELLE

LAMARRE (IETA)
From 10/07/15 to 13/07/15

CASSIOPEE

CRAVATTE Sophie
MARIN Frédéric
From 18/07/15 to 24/08/15

ESS_SMT

From 28/08/15 to 09/09/15

TECTA

COLLOT Julien
SUTHERLAND Rupert
ROEST Walter
From 02/09/15 to 10/10/15

TR_NMAPPT / ESSK (Transit)

From 13/10/15 to 27/10/15

NODULE 2015

PELLEAU Pascal
From 30/10/15 to 01/12/15

TR_MANCOL (Transit)

From 05/12/15 to 15/12/15

CARACALHIS / HAÏTI-BGF

ELLOUZ-ZIMMERMANN Nadine
BEAUFORT Luc
From 16/12/15 to 26/12/15

4.3.1.8 Cruises by L'Europe

This oceanographic research vessel is a 29.60 m-long catamaran operating in the Mediterranean Sea. The outcome of cooperation between IFREMER and ICRAM (the Italian Central institute for applied marine research), it was built in 1993 at Sables d'Olonnes (OCEA), France.

It is designed to perform a range of missions, in particular related to fisheries research and the coastal environment. It is used for conventional deep-sea trawling (reaching 1,300 meters), pelagic and experimental trawling, deploying set gear (gill nets, longlines, pots, etc.), seismic and sedimentology studies and hydrological sampling.



Here are its main characteristics:

Coastal vessel
NODC code: 35EU
Call sign: FKJB
Length 30m
Crew: 8
Scientists and technicians: 8

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-cotiers/L-Europe>



Figure 8 — Tracks of 15 cruises by *L'Europe* in 2015

ESSTECH15-GEN-EU

RAILLARD Jean-Michel
From 14/01/15 to 14/01/15

BOUSSOLE 2015 (155)

GOLBOL Melek
From 19/01/15 to 23/01/15

MOOSE (ANTARES)

LEFEVRE Dominique
BHAIRY Nagib

From 07/02/15 to 07/02/15

ESSTECH15-IFR-EU

LE BOUFFANT Naïg
From 23/03/15 to 29/03/15

DCE 4-1

TOMASINO Corinne
From 30/03/15 to 21/04/15

STEP 2015

APPRIOUAL Ronan
THOMAS Yannick
From 23/04/15 to 07/05/15

ESSHROV3

RAUGEL Ewen
From 08/05/15 to 21/05/15

MEDITS 2015

METRAL Luisa
JADAUD Angélique

From 22/05/15 to 27/06/15

PELMED 2015

BOURDEIX Jean-Hervé
From 28/06/15 to 02/08/15

POSIDCORSE

PERGENT Gérard
CLABAUT Philippe
From 04/08/15 to 29/08/15

DCE 4-2

TOMASINO Corinne
From 08/09/15 to 14/09/15

MEDBIONET

ANDRAL Bruno
From 15/09/15 to 10/10/15

DIVACOU 8 HROV

DROGOU Michèle
BOUHIER Marie-Edith

From 13/10/15 to 23/10/15

ESSAUV15-EU

JAUSSAUD Patrick
From 25/10/15 to 04/11/15

RECUP LIONCEAU

KUNESCH Stéphane
From 11/11/15 to 13/11/15

4.3.1.9 Cruises by *Le Suroit*

Built in 1975, *Le Suroit* was upgraded in 1999. The refitting of the ship was the opportunity to totally upgrade all its scientific equipment. The performances of this equipment are consistent with refocused cruises on the continental shelf, to the bottom of the slope, limited to depths of 4,000/4,500 m.

- bathymetry
- core sampling, dredging, beam trawling
- high and very high resolution seismics
- CTD/hydrology
- towed SAR-type vehicles
- moorings, station work



Here are its main characteristics:

Ocean-going vessel
NODC code: 35LU
Call sign: FZVN
Length 56m
Crew: 16/23
Scientists and technicians:

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Le-Suroit>

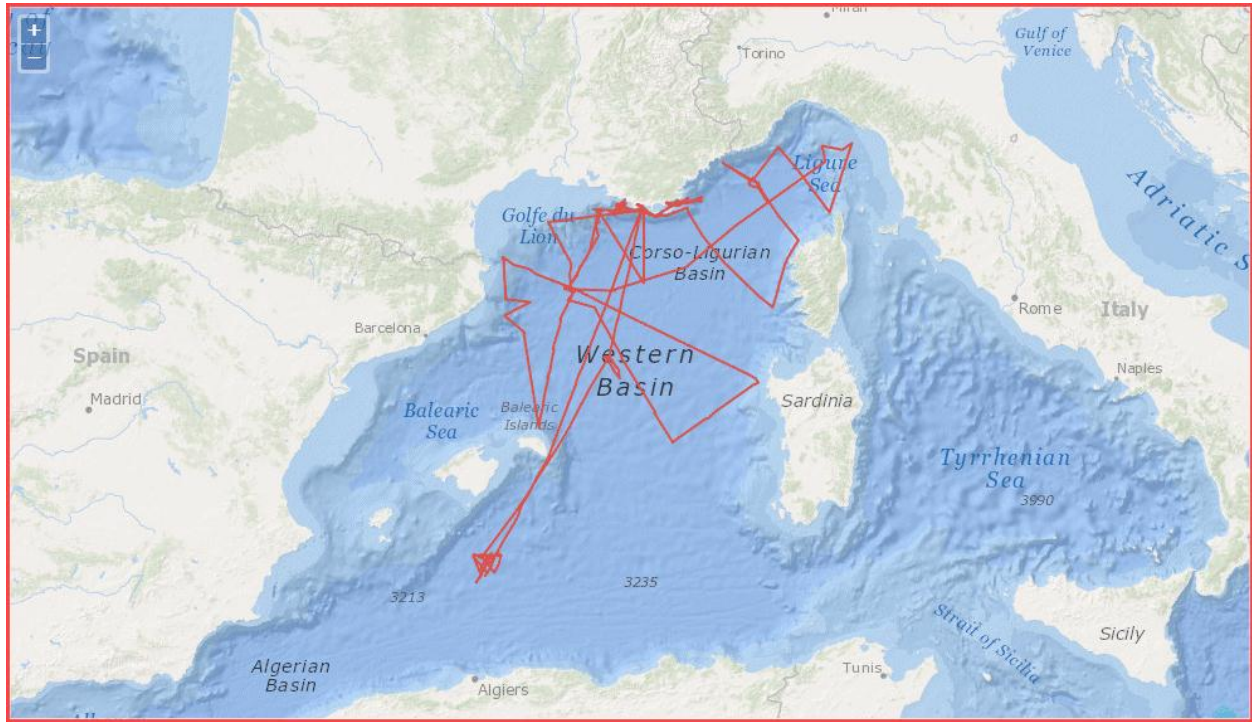


Figure 9 — Tracks of 3 cruises and legs in transit by *Suroît* in 2015

BAMBI
 SALVATERRA Christian
 From 03/03/15 to 11/03/15

ESSHROV2
 SIMEONI Patrick
 From 14/03/15 to 27/03/15

MOOSE-GE
 TESTOR Pierre
 COPPOLA Laurent
 MORTIER Laurent
 From 10/07/15 to 27/07/15

4.3.1.10 Cruises by Marion Dufresne

RV Marion Dufresne is a multi-purpose research vessel launched in 1995, commissioned by CMA-CGM, and jointly chartered by TAAF and IPEV. It provides two main functions:

- **oceanographic research:** on every ice-free ocean, under the responsibility of IPEV - 217 days a year.
- **logistics for French sub-Antarctic islands:** Crozet, Kerguelen, Amsterdam/Saint-Paul, under the responsibility of TAAF – 120 days per year (4 x 30 days).



Here are its main characteristics:

Ocean-going vessel

NODC code: 35MF

Call sign: FNIN

Length 120.50m

Crew: 18/29

Scientists and technicians: 60/110

Owned by TAAF - Managed by IPEV

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Marion-Dufresne>

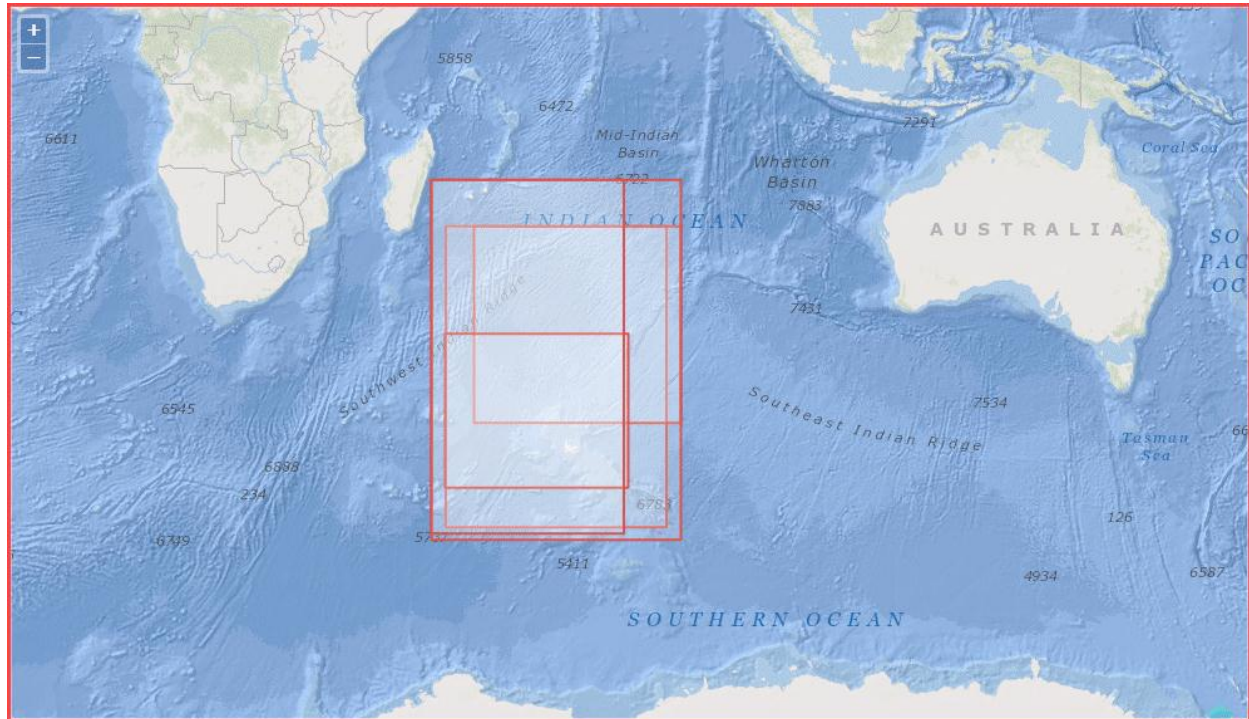


Figure 10 — Tracks of 5 cruises and piggybacking legs in transit by *Marion Dufresne* in 2015

MD 200 / LOGIPEV

SANGIARDI Pierre
From 06/01/15 to 10/02/15

VT 141 / OHA-SIS-BIO-7

ROYER Jean-Yves
From 06/01/15 to 10/02/15

VT 142 / OISO-24

METZL Nicolas
LO MONACO Claire
From 06/01/15 to 10/02/15

VT 143 / MDCPR

KOUBBI Philippe
From 06/01/15 to 10/02/15

VT 144 / MYCTO

ROUDAUT Gildas
From 06/01/15 to 10/02/15

4.3.1.11 Cruises by Pourquoi pas?

This multidisciplinary vessel is intended for the following missions:

- Offshore and inshore hydrography with deployment of hydrographic survey launches
- Exploring the water column, currents
- Underwater mapping using its sounders and sub-seabed characterization (seismics, gravimetry, magnetism)
- Multi-scale study of physical, biological or geological processes
- Surveying of sites using acoustic equipment, deployment of towed (SAR), remotely operated (Victor 6000) or autonomous (Nautile) vehicles, positioning heavy equipment near the seabed using cable (Penfeld)
- Collecting and analyzing samples of water, living matter, sediments or rocks (coring, dredge)
- Deploying the Navy's Newtsuit assistance system to rescue submarines in difficulty.



Here are its main characteristics:

Ocean-going vessel
NODC code: 35PP
Call sign: FMCY
Length 108m
Crew: 35
Scientists and technicians: 40

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Pourquoi-pas>

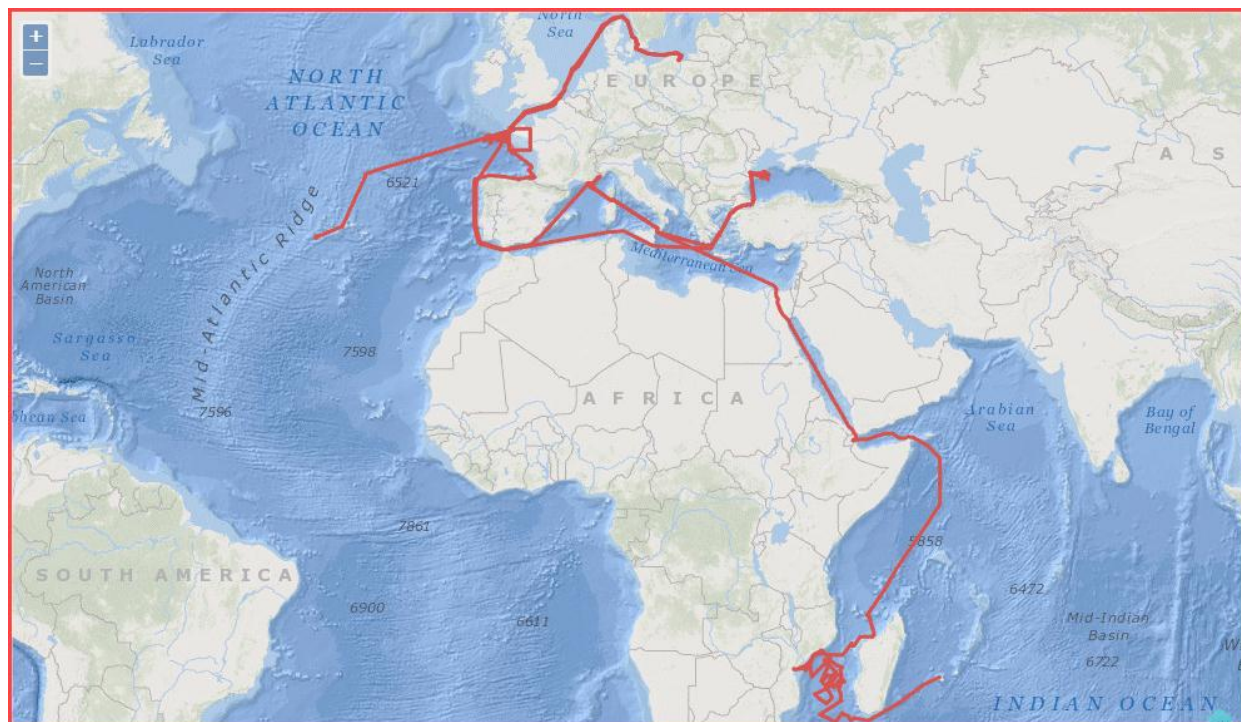


Figure 11 — Tracks of 18 cruises and legs in transit by *Pourquoi pas ?* in 2015

PROTEVS_2015

LOUAZEL Stéphanie
From 09/01/15 to 23/01/15

TR_SEYBRE (Transit)

From 25/01/15 to 01/02/15

TR_BREGDA (Transit)

From 02/02/15 to 08/02/15

ESS_MER

LE BLIGUET Patrick
From 15/03/15 to 15/03/15

TR_GDABRE (Transit)

From 16/03/15 to 22/03/15

ESS_PENCAR

DUSSUD Loïc
From 28/03/15 to 03/04/15

TR_BRELHA (Transit)

From 03/04/15 to 08/04/15

MOMARSAT2015

CANNAT Mathilde
SARRADIN Pierre-Marie
From 08/04/15 to 29/04/15

DYNSEDIM 2015

ASC MARCHES
From 10/07/15 to 19/07/15

ESS_PENCARSYSROV

DUSSUD Loïc
From 21/07/15 to 30/07/15

ESS_SISMHR

DUDUYER Sarah
From 31/07/15 to 02/08/15
GITAN

TOUCANNE Samuel

From 05/08/15 to 15/08/15

TR_SANCOS (Transit)

From 16/08/15 to 28/08/15

GHASS

KER Stéphan
RIBOULOT Vincent
From 31/08/15 to 30/09/15

TR_COSSEY (Transit)

From 02/10/15 to 09/10/15

ESSPENF50

DUSSUD Loïc
From 10/10/15 to 16/10/15

TR_SEYLON (Transit)

From 19/10/15 to 09/11/15

PAMELA-MOZ04

DEVILLE Eric
JOUET Gwenael
From 12/11/15 to 22/12/15

4.3.1.12 Cruises by *Téthys II*

This oceanographic vessel performs scientific research missions, mainly in the Mediterranean Sea. It can conduct missions lasting about ten days, at distances reaching 200 nautical miles from harbour. This inshore vessel is fitted with instruments and meets the needs of researchers in the fields of marine geosciences, physical and biological oceanography, biogeochemistry and ocean chemistry. It also contributes to long-term marine environmental observation missions and to research and trials missions in various marine technology fields. The vessel can also carry out teaching missions for graduate and post-graduate university levels.



Here are its main characteristics:

Coastal vessel
NODC code: 35TT
Call sign: FGTO
Length 24m
Crew: 7
Scientists and technicians: 8

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-cotiers/Tethys-II>

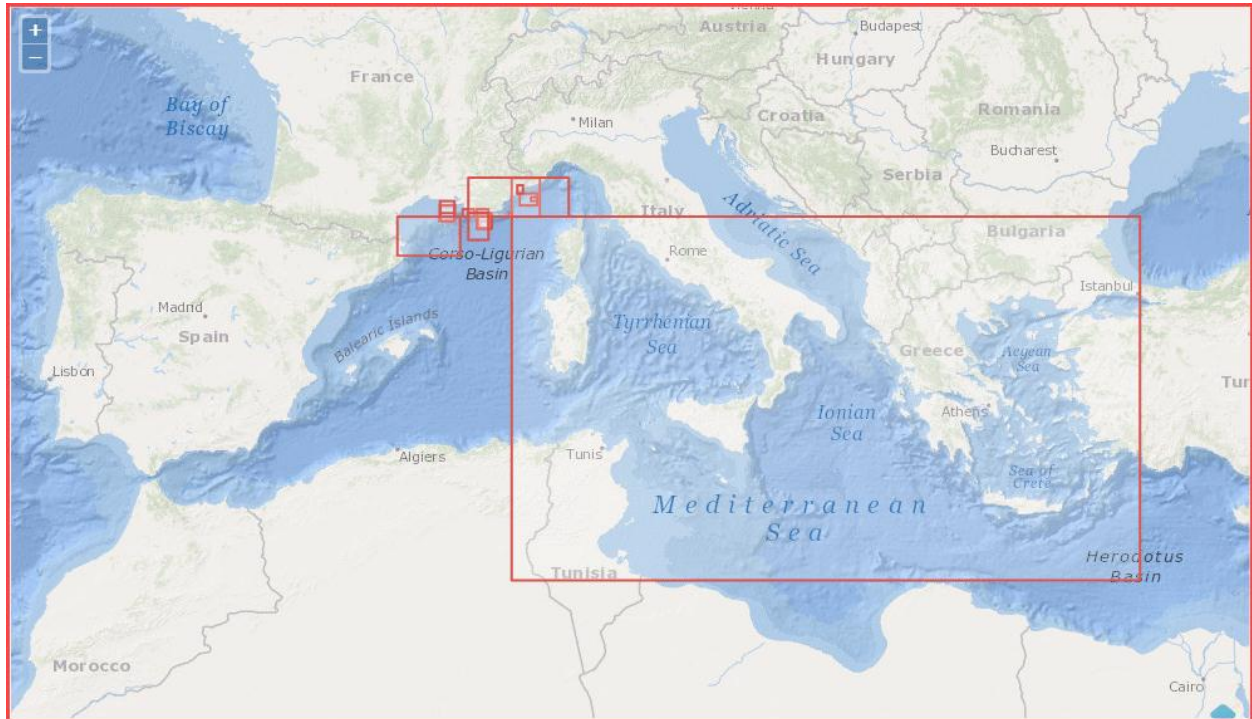


Figure 12 — Tracks of 18 cruises by *Téthys II* in 2015

MOOSE (DYFAMED)

DIAMOND-RIQUIER Emilie
From 02/01/15 to 21/12/15

MOOSE (ANTARES)

LEFEVRE Dominique
BHAIRY Nagib
From 26/01/15 to 16/12/15

PLUMRHO LEG1

GANGLOFF Aurélien
BOURRIN François
VERNEY Romaric
From 31/01/15 to 06/02/15

BOUSSOLE 2015

ANTOINE David
VELLUCCI Vincenzo
GOLBOL Melek
From 09/02/15 to 14/12/15

PLUMRHO LEG2

BOURRIN François
VERNEY Romaric
GANGLOFF Aurélien
From 23/02/15 to 01/03/15

PARTICULE LEG1

PULIDO-VILLENA Elvira
From 13/04/15 to 13/04/15

MEUST 2015 LEG1

GOJAK Carl
From 22/04/15 to 24/04/15

BIO-ARGO-MED

TAILLANDIER Vincent
D'ORTENZIO Fabrizio
From 12/05/15 to 02/06/15

MEUST 2015 LEG2

GOJAK Carl
From 04/06/15 to 06/06/15

ALTEO

LUCCIONI Marc
From 10/06/15 to 11/06/15

GEODESEA

ROYER Jean-Yves
From 17/06/15 to 22/06/15

PARTICULE LEG2

PULIDO-VILLENA Elvira
From 24/06/15 to 24/06/15

PARTICULE LEG3

PANAGIOTOPOULOS Christos
From 23/07/15 to 23/07/15

BOUSS-PROV

LEYMARIE Edouard
From 30/08/15 to 30/08/15

AMOR-BFLUX

RABOUILLE Christophe
From 04/09/15 to 14/09/15

OSCAHR

DOGLIOLI Andrea
From 29/10/15 to 06/11/15

MUG_OBS_LIGUTRE

HELLO Yann
From 19/11/15 to 27/11/15

BILLION 39

KUNESCH Stéphane
From 01/12/15 to 04/12/15

4.3.1.13 Cruises by Thalassa

This fisheries research vessel is intended for the following missions:

- Population ecology
- Assessment of caught species
- Study of the distribution of resources over time and space
- Techniques for catching and processing of seafood
- Physical oceanography
- Occasional deployment of remotely operated vehicle Victor 6000

This vessel is the outcome of cooperation between IFREMER and IEO (Spanish oceanographic institute).



Here are its main characteristics:

Ocean-going vessel
NODC code: 35HT
Call sign: FNFP
Length 74m
Crew: 16/25
Scientists and technicians: 25
Co-owned IEO (SPANISH) – IFREMER

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Thalassa>

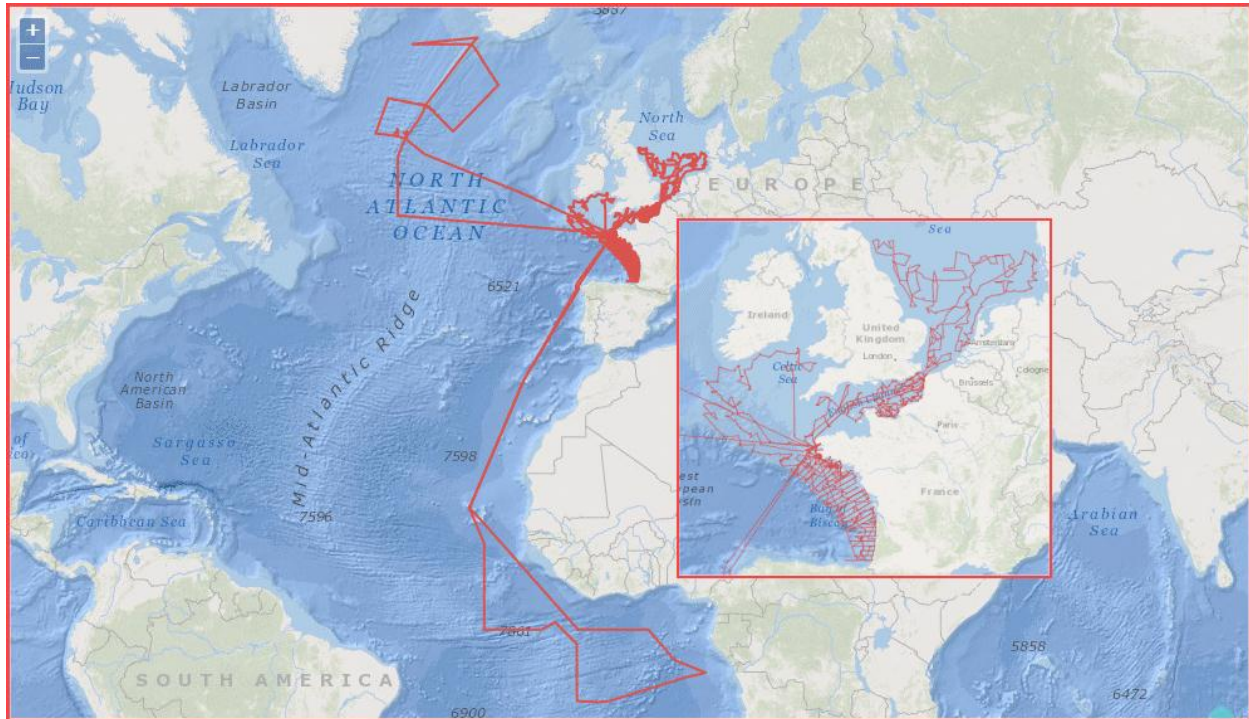


Figure 13 — Tracks of 13 cruises and legs in transit by *Thalassa* in 2015

IBTS 2015

VERIN Yves
From 10/01/15 to 11/02/15

TV_MARPORT

NOKIN Marc
From 12/02/15 to 16/02/15

ESS SISM

PACAULT Anne
From 19/02/15 to 23/02/15

TR_BREMEN (Transit)

From 05/03/15 to 18/03/15

PIRATA FR25

BOURLES Bernard
From 18/03/15 to 16/04/15

TR_MINBRE (Transit)

From 17/04/15 to 27/04/15

PELGAS 2015

DORAY Mathieu
DUHAMEL Erwan
From 29/04/15 to 02/06/15

RREX

THIERRY Virginie
From 05/06/15 to 10/07/15

TR_BREBOU (Transit)

From 19/09/15 to 23/09/15

CGFS2015

TRAVERS-TROLET Morgane
From 23/09/15 to 15/10/15

EVHOE 2015

PAWLOWSKI Lionel
SALAUN Michèle
LEAUTE Jean-Pierre
From 17/10/15 to 01/12/15
TR_BRECON (Transit)
From 01/12/15 to 02/12/15
TR_CONBRE (Transit)
From 22/12/15 to 23/12/15

4.3.1.14 Cruises by *Thalia*

Thalia is a 24.50 m-long oceanographic vessel operating in the English Channel and the Bay of Biscay. It was built in Cherbourg in 1978.

It is a multi-purpose research vessel used for coastal environmental cruises and fisheries resource assessments. It is designed to perform shallow-water multibeam echo-sounder mapping, take hydrological measurements, film underwater videos, take samples using grab and dredge, as well as performing acoustic or seismic trials.



Here are its main characteristics:

Coastal vessel
NODC code: 35TC
Call sign: FPCS
Length 24m
Crew: 6
Scientists and technicians: 6

For more details: <http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-cotiers/Thalia>

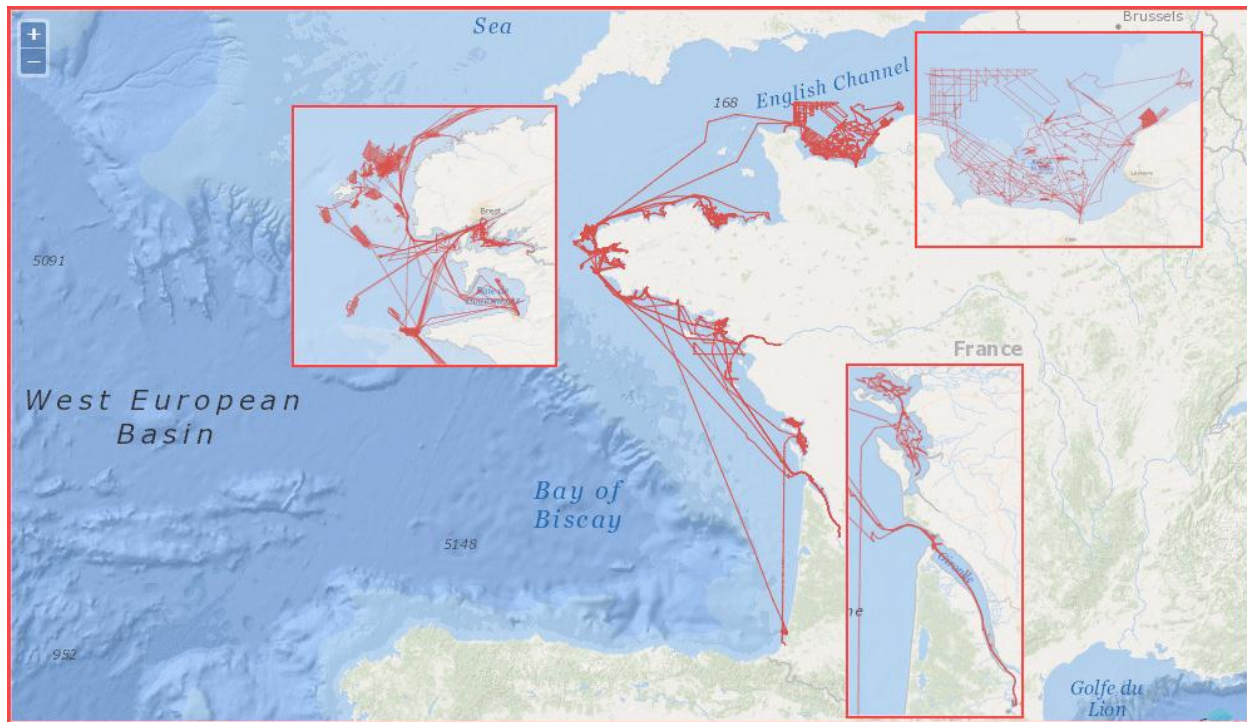


Figure 14 — Tracks of 37 cruises and legs in transit by *Thalia* in 2015

TR_CONLOR (Transit)
From 03/01/15 to 04/01/15

TR_LORBRE (Transit)
From 21/02/15 to 22/02/15

ESSTECH15-TH
BISQUAY Hervé
From 22/02/15 to 25/02/15

TR_BREBAE (Transit)
From 26/02/15 to 01/03/15

MGTS 2015 LEG1
COYNEL Alexandra
SCHAEFER Jorg
From 02/03/15 to 09/03/15

TR_BAELOR (Transit)
From 09/03/15 to 10/03/15

HABENT
BROUDIN Caroline
THIEBAUT Eric
From 13/03/15 to 22/03/15

TR_ROSBRE (Transit)
From 22/03/15 to 23/03/15

SIMEO1
WOERTHER Patrice
From 26/03/15 to 27/03/15

TR_BREDOU (Transit)
From 26/03/15 to 26/03/15

RECUP PIEZO
EHRHOLD Axel
From 01/04/15 to 01/04/15

TR_CONBRE (Transit)
From 15/04/15 to 16/04/15

SERABEQ-03
GREGOIRE Gwendoline
EHRHOLD Axel
From 17/04/15 to 28/04/15

SPEEDUNES
LE DANTEC Nicolas
From 29/04/15 to 17/05/15

REM2040-01
DUDUYER Sarah
LURTON Xavier
From 18/05/15 to 24/05/15

TR_BRECON (Transit)
From 25/05/15 to 25/05/15

THAPENFROM 2015
EHRHOLD Axel
DUPERRET Anne
From 26/05/15 to 06/06/15

ROCCHSED15
CHIFFOLEAU Jean-François
From 07/06/15 to 16/06/15

TV_RECUP
LE DANTEC Nicolas
From 18/06/15 to 19/06/15

MERCAUX 2015
PAQUET Fabien
From 20/06/15 to 05/07/15

COMOR 45
FOUCHER Eric
From 07/07/15 to 24/07/15

CHALKWAVE 2015
PAQUET Fabien
From 25/07/15 to 29/07/15

TR_OUICON (Transit)
From 31/07/15 to 01/08/15

VOLT 1
SIMPLET Laure
From 14/08/15 to 17/08/15

TR_BAYCDB (Transit)
From 17/08/15 to 20/08/15

NURSE 2015
BRIND'AMOUR Anik
From 20/08/15 to 05/09/15

TR_SNZSQP (Transit)
From 05/09/15 to 10/09/15

COSB2015
CAROFF Nicolas
From 10/09/15 to 23/09/15

TR_SQPNAN (Transit)
From 23/09/15 to 26/09/15

CAMELIA 4
BRACH-PAPA Christophe
CHIFFOLEAU Jean-François
From 30/09/15 to 09/10/15

TR_SNZBOR (Transit)
From 10/10/15 to 11/10/15



MGTS 2015 LEG2

COYNEL Alexandra

BLANC Gérard

From 12/10/15 to 20/10/15

TR_BORLTU (Transit)

From 19/10/15 to 20/10/15

CARMOLIT 2015 LEG2 / SIMEO-02

QUEMENER Loïc

From 22/10/15 to 24/10/15

TR_DOUBRE (Transit)

From 24/10/15 to 24/10/15

REM2040-02

PACAULT Anne

From 29/10/15 to 04/11/15

TR_BRECON (Transit)

From 05/11/15 to 06/11/15

4.3.1.15 Cruises aboard other vessels (not including FLEET-JSU)

This year, 2 cruises were performed aboard vessels which do not belong to the JSU fleet. They were inshore cruises using other means made available by other organizations.



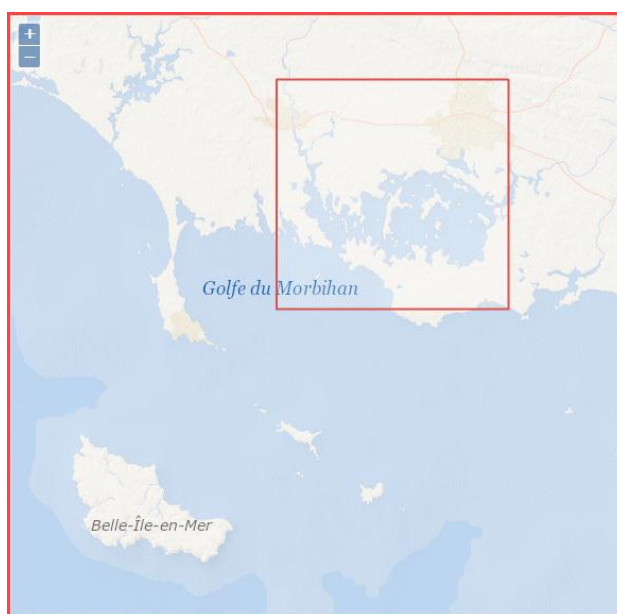
BREBENT-CRUSTACÉS-JUIN2015

Small vessel Le Pépère

CARLIER Antoine

LAURANS Martial

From 25/06/15 to 27/06/15



HAWKEYE3-GDM

Sepiola (University Rennes I)

CORDIER Céline

BAJOUK Touria

From 08/09/15 to 09/09/15

4.3.2 Cruises not referenced at SISMER (teaching and station vessels)

Some cruises are not listed at SISMER. This is notably the case for:

- training cruises aboard JSU vessels,
- cruises conducted aboard station vessels.

4.3.2.1 Training cruises aboard inshore vessels

Training cruises make up a non-negligible proportion of the annual sea outings of the INSU's inshore vessels.

The following tables give the list of training cruises made aboard Téthys II and Côtes de la Manche, indicating the number of days at sea for each of the cruises:

Téthys II

Cruise	Dates	Zone	Chief scientist	Chief scientist's laboratory	Number of days
DEEM 2015	18 to 20/03/15	Ligurian Sea	MOUSSEAU Laure	LOV, Oceanology observatory in Villefranche	3
DIMAPLAN 2015	06 to 07/07/15	Ligurian Sea	MOUSSEAU Laure	LOV, Oceanology observatory in Villefranche	2
GEOMAST	20 to 24/10/15	Ligurian Sea	DESSA Jean-Xavier	UMR GeoAzur, UPMC	5
GEONICE-2015	18 to 21/02/15	Ligurian Sea	Petit Carole	Geoazur, Univ Nice	4
GRE-M1	15 to 17/03/15	Ligurian Sea	Doan Mai-Linh	UJF, ISTERRE-OSUG	3
IAO 2015	16 to 20/09/15	Ligurian Sea	MOUSSEAU Laure	LOV, Oceanology observatory in Villefranche	5
IPGP2015	13 to 16/02/15	Ligurian Sea	Cogné Jean-Pascal	Paleomagnetism team, IPGP	4
LASALLE-BEAUVAIS 2015:01	26 to 29/09/15	Ligurian Sea	BAILLEUL Julien	Geosciences Dept, Institut Polytechnique LaSalle-Beauvais	4
LILLE 1	29 to 30/04/15	Ligurian Sea	WITT César	Lecturer, University of Lille 1	2
M1-P6	01 to 04/05/15	Ligurian Sea	MIGEON Sébastien	Hazards and vulnerability team, Géoazur	4
MAGIRAA	11 to 14/03/15	Ligurian Sea	PICHAT Sylvain	Dept of Earth Sciences, Ecole normale supérieure de Lyon	4
MAST-ENS	30/09 to 03/10/15	Ligurian Sea	CHAMOT-ROOKE Nicolas	UMR 8538, CNRS	4
PHYBIO_2015	23 to 28/03/15	Gulf of Lion	WAGENER Thibaut	MIO - UM 110, University AIX-MARSEILLE - OSU Institut Pytheas	6
PHYOCE	01 to 04/04/15	St Tropez	ZAKARDJIAN Bruno	UFR Sciences & Technologies, Univ Toulon (MIO UMR7294)	4
Total					54

For RV Téthys II, 54 days were used for training cruises.

Côtes de la Manche

Cruise	Dates	Zone	Chief scientist	Chief scientist's lab	Number of days
GEOBREST	18 to 23/09/15	Iroise Sea, Bay of Brest, South Brittany	GRAINDORGE David	UMR 6538 Oceanic domains, UBO	6
TP GIRONDE	12 to 19/10/15	Gironde estuary	LUBAC Bertrand	UMR 5805 EPOC - OASU, Univ Bordeaux	8
TPINT-2015-01	22 to 31/03/15	Bay of Cherbourg, Le Becquet bay	POIZOT Emmanuel	INTECHMER, CNAM	10
TPINT-2015-02	9 to 18/11/15	Bay of Cherbourg	POIZOT Emmanuel	INTECHMER, CNAM	10
Total					34

For RV Côtes de la Manche, 34 days were used for training cruises.

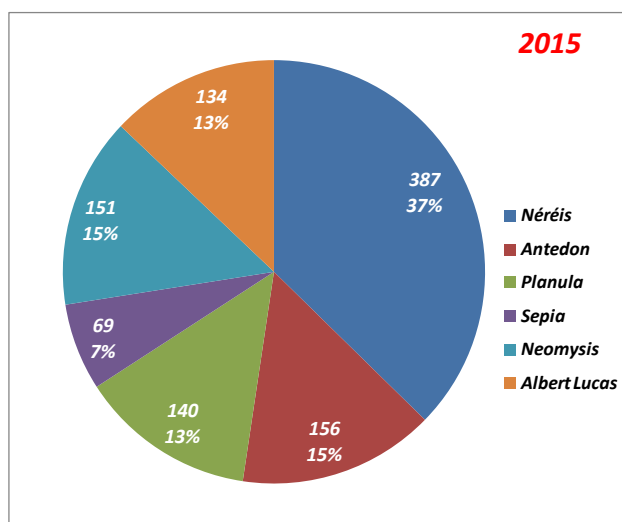
4.3.2.2 Cruises aboard station boats

The 6 station vessels go out for the day, or even for just a few hours. However, their activity is far from negligible. While awaiting the information required to reference them at SISMER, the CNFC has the following results.

The assessment of these vessels' activity (in number of days at sea, except for RV Néréis where the number of outings were taken into account) over the past 6 years shows that the utilization of each boat can vary from one year to another. However, the total number of outings is fairly constant (1,051 outings per year on average).

	Year	2010	2011	2012	2013	2014	2015
Marine Station	Ship						
Banyuls	Néréis	381	355	339	392	381	387
Marseille	Antedon	117	116	113	104	133	156
Arcachon	Planula	199	204	159	124	180	140
Wimereux	Sepia	115	64	65	50	76	69
Roscoff	Neomysis	180	167	165	155	149	151
Brest	Albert Lucas	128	185	160	150	166	134
	Total	1120	1091	1001	975	1085	1037

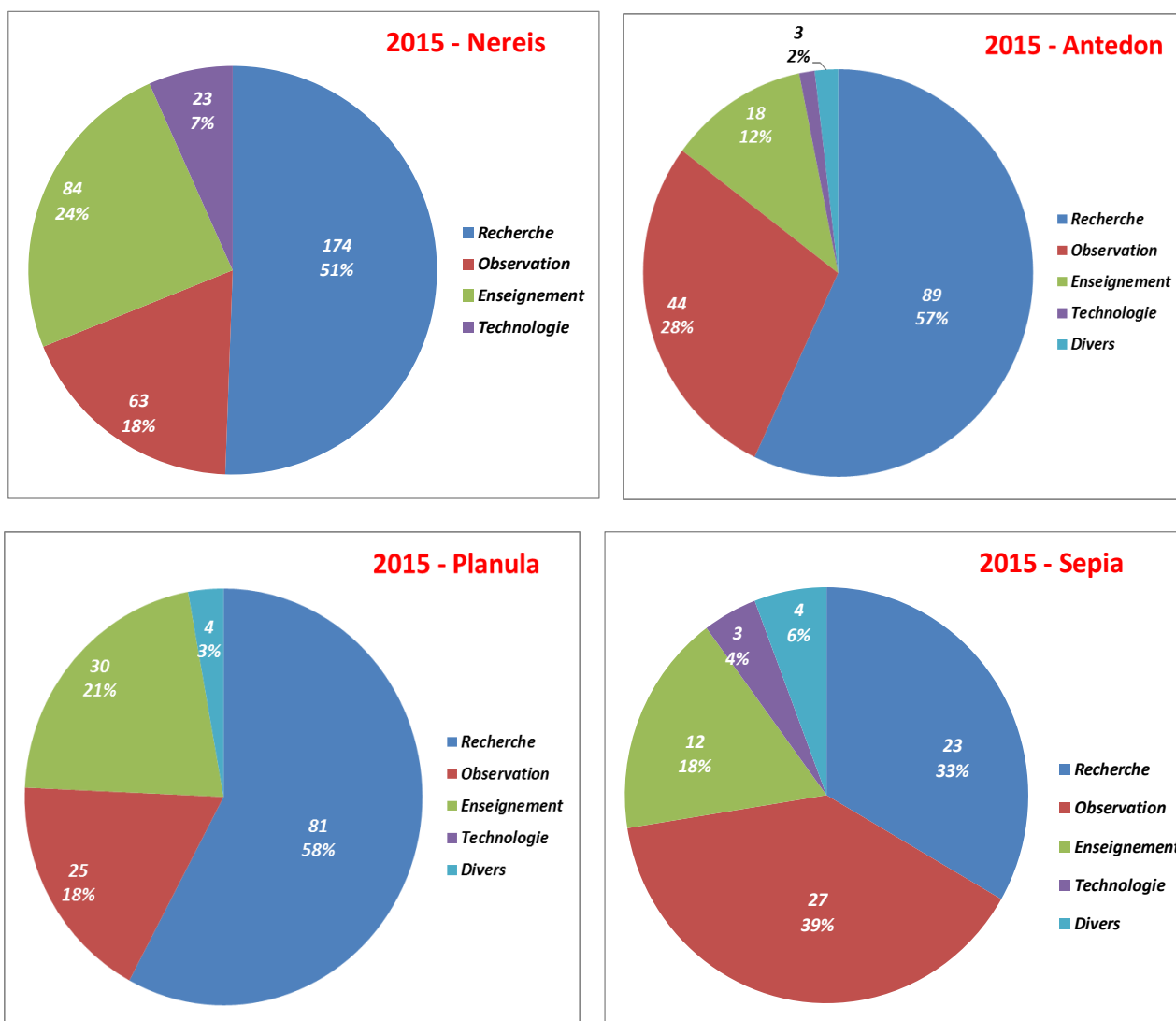
For 2015, the activity of station boats can be broken down as follows:

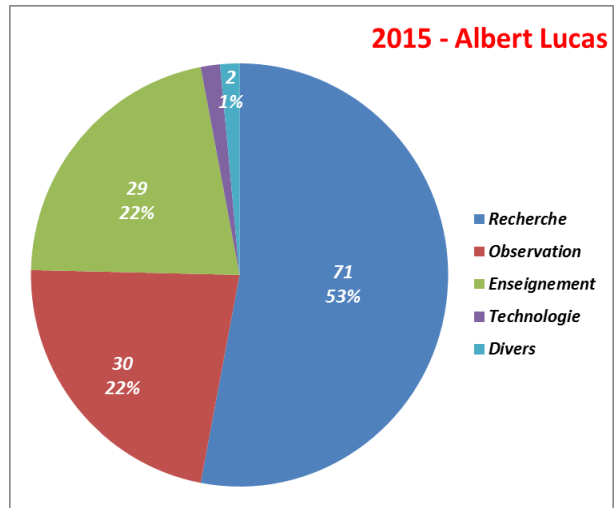
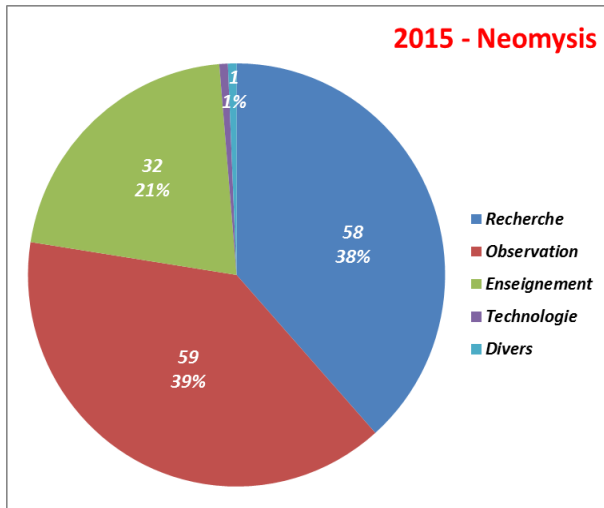


The table below shows the distribution of days at sea by vessel and by field of activity for the year 2015. For RV Néréïs, this is given in the number of outings at sea (and not the number of days).

2015	Year	Research	Observation	Teaching	Technology	Other	Total
Marine Station	Ship						
Banyuls	Néréïs	174	63	84	23	43	387
Marseille	Antedon	89	44	18	2	3	156
Arcachon	Planula	81	25	30		4	140
Wimereux	Sepia	23	27	12	3	4	69
Roscoff	Neomysis	58	59	32	1	1	151
Brest	Albert Lucas	71	30	29	2	2	134
	Total	496	248	205	31	57	1037

The following graphs show the distribution of days at sea by vessel (or outings for RV Néréïs) broken down by field of activity. The great majority by far of sea outings is devoted to research and marine observations.





4.4 LIST OF CRUISES

The alphabetical list of cruises performed in 2015 is given below.

Information about each of the cruises is available on the cruise catalogue site <http://www.ifremer.fr/sismerData/jsp/campagnesALaMer.jsp> by clicking [CTRL + left CLICK] on the name of the cruise.

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
ABRACOS	<i>Antea</i>	29 09 2015	21 10 2015	SW Atlantic (20 W boundary)	BERTRAND Arnaud	IRD SETE CENTER, IRD
ALTEO	<i>Téthys II</i>	10 06 2015	11 06 2015	Western Mediterranean Basin	BOUCHOUCHA Marc	IFREMER TOULON CENTER, Ifremer
AMOR-BFLUX	<i>Téthys II</i>	04 09 2015	14 09 2015	Western Mediterranean Basin	RABOUILLE Christophe	LSCE CLIMATE AND ENVIRONMENTAL SCIENCES LABORATORY, CEA
ANTITHESIS2 DEPLO	<i>Antea</i>	02 02 2015	07 02 2015	Caribbean Sea	MARCAILLOU Boris	IRD - UMR 082 GEOAZUR, IRD
ANTITHESIS2 RECUP	<i>Antea</i>	02 07 2015	09 07 2015	Caribbean Sea	LEBRUN Jean Frédéric	UMR 5243 - GEOSCIENCES MONTPELLIER - UNIVERSITÉ ANTILLES, University of the French West Indies and Guiana
ASPEX7	<i>Côtes De La Manche</i>	01 07 2015	03 07 2015	Bay of Biscay	MARIE Louis	OPS/LPO- OCEAN PHYSICS LABORATORY, Ifremer
BAMBI	<i>Le Suroît</i>	03 03 2015	11 03 2015	Western Mediterranean Basin	SALVATERRA Christian	SHOM - BREST CENTER, French Navy/SHOM
BILLION 39	<i>Téthys II</i>	01 12 2015	04 12 2015	Western Mediterranean Basin	KUNESCH Stéphane	CEFREM MARINE ENVIRONMENT RESEARCH AND TRAINING CENTER, University of Perpignan
BIO-ARGO-MED	<i>Téthys II</i>	12 05 2015	02 06 2015	Eastern Mediterranean Basin	D'ORTENZIO Fabrizio	OCEANOGRAPHY LABORATORY OF VILLEFRANCHE (LOV), University of Paris VI - UPMC
BOUSSOLE 2015	<i>Téthys II</i>	09 02 2015	14 12 2015	Ligurian Sea	GOLBOL Melek	OCEANOGRAPHY LABORATORY OF VILLEFRANCHE (LOV), University of Paris VI - UPMC
BOUSSOLE 2015 (155)	<i>L'Europe</i>	19 01 2015	23 01 2015	Ligurian Sea	GOLBOL Melek	OCEANOGRAPHY LABORATORY OF VILLEFRANCHE (LOV), University of Paris VI - UPMC
BOUSS-PROV	<i>Téthys II</i>	30 08 2015	30 08 2015	Western Mediterranean Basin	LEYMARIE Edouard	OCEANOGRAPHY LABORATORY OF VILLEFRANCHE (LOV), University of Paris VI - UPMC
BREBENT-CRUSTACÉS-JUIN2015	<i>Other vessel</i>	25 06 2015	27 06 2015	English Channel	CARLIER Antoine	DYNECO-LEBCO COASTAL BENTHIC ECOLOGY LABORATORY, Ifremer
CAMELIA 4	<i>Thalia</i>	30 09 2015	09 10 2015	Bay of Biscay	CHIFFOLEAU Jean-François	DPT RBE / UR BIOGEOCHEMISTRY & ECOTOXICOLOGY (NANTES), Ifremer
CARACALHIS / HAÏTI-BGF	<i>L'Atalante</i>	16 12 2015	26 12 2015	Caribbean Sea	ELLOUZ-ZIMMERMANN Nadine	FRENCH PETROLEUM INSTITUTE (IFP), Institut français du pétrole
CARMOLIT 2015 LEG1	<i>Côtes De La Manche</i>	06 03 2015	07 03 2015	Bay of Biscay	QUEMENER Loïc	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
CARMOLIT 2015 LEG2 / SIMEO-02	<i>Thalia</i>	22 10 2015	24 10 2015	Bay of Biscay	QUEMENER Loïc	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
CASSIOPEE	<i>L'Atalante</i>	18 07 2015	24 08 2015	SW Pacific (140 W boundary)	MARIN Frédéric	LEGOS SPATIAL GEOPHYSICS AND OCEANOGRAPHY LABORATORY, CNRS
CGFS2015	<i>Thalassa</i>	23 09 2015	15 10 2015	English Channel	TRAVERS-TROLET Morgane	HMMN- ENGLISH CHANNEL-NORTH SEA FISHERIES SCIENCES DEPARTMENT, Ifremer
CHALKWAVE 2015	<i>Thalia</i>	25 07 2015	29 07 2015	English Channel	PAQUET Fabien	BUREAU OF GEOLOGY & MIN. RESEARCH/GEO (BRGM, ORLEANS), BRGM
CHEST	<i>Alis</i>	05 11 2015	25 11 2015	Pacific Ocean	MAGALON Hélène	UMR ENTROPIE, University of Réunion island
COMOR 45	<i>Thalia</i>	07 07 2015	24 07 2015	English Channel	FOUCHER Eric	HMMN- ENGLISH CHANNEL-NORTH SEA FISHERIES SCIENCES DEPARTMENT, Ifremer
CORALCAL-5	<i>Alis</i>	28 09 2015	15 10 2015	SW Pacific (140 W boundary)	PAYRI Claude	UMR ENTROPIE, IRD
COSB2015	<i>Thalia</i>	10 09 2015	23 09 2015	English Channel	CAROFF Nicolas	STH- FISHERIES SCIENCES AND TECHNOLOGIES DEPARTMENT, Ifremer
C2FN-KULLENBERG-ARMORIC	<i>Côtes De La Manche</i>	07 04 2015	09 04 2015	Celtic Sea	MACE Eric	ROSCOFF BIOLOGICAL STATION (OSU-SBR), CNRS
DARSE	<i>Haliotis</i>	11 10 2015	11 10 2015	Western Mediterranean Basin	LE DOARE Jacques	GENAVIR BREST, Ifremer
DCE 4-1	<i>L'Europe</i>	30 03 2015	21 04 2015	Western Mediterranean Basin	TOMASINO Corinne	IFREMER TOULON CENTER, Ifremer
DCE 4-2	<i>L'Europe</i>	08 09 2015	14 09 2015	Western Mediterranean Basin	TOMASINO Corinne	IFREMER TOULON CENTER, Ifremer
DIVACOU 8 HROV	<i>L'Europe</i>	13 10 2015	23 10 2015	Western Mediterranean Basin	BOUHIER Marie-Edith	IFREMER TOULON CENTER, Ifremer
DUNES 2015	<i>Beautemps-Beaupré</i>	12 10 2015	21 10 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
DYNAMO	<i>Haliotis</i>	19 05 2015	29 05 2015	Bay of Biscay	CHAUMILLON Eric	LITTORAL ENVIRONMENT & SOCIETIES (LIENSS) - UMR 7266, University of La Rochelle
DYNAMOSEINE LEG1	<i>Côtes De La Manche</i>	25 04 2015	30 04 2015	English Channel	HUGUET Arnaud	UMR 7619 - METIS, University of Paris VI - UPMC
DYNAMOSEINE LEG2	<i>Côtes De La Manche</i>	25 09 2015	30 09 2015	English Channel	HUGUET Arnaud	UMR 7619 - METIS, University of Paris VI - UPMC

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
DYNSEDIM 2015	<i>Pourquoi pas?</i>	10 07 2015	19 07 2015	Atlantic Ocean	ASC MARCHES	SHOM - BREST CENTER, French Navy/SHOM
ELFIC LEG1	<i>Côtes De La Manche</i>	20 04 2015	21 04 2015	English Channel	COMTET Thierry	ROSCOFF BIOLOGICAL STATION (OSU-SBR), CNRS
ELFIC LEG2	<i>Côtes De La Manche</i>	22 06 2015	24 06 2015	English Channel	COMTET Thierry	ROSCOFF BIOLOGICAL STATION (OSU-SBR), CNRS
ELFIC LEG3	<i>Côtes De La Manche</i>	07 08 2015	09 08 2015	English Channel	COMTET Thierry	ROSCOFF BIOLOGICAL STATION (OSU-SBR), CNRS
ESS SISM	<i>Thalassa</i>	19 02 2015	23 02 2015	NE Atlantic (40 W boundary)	PACAULT Anne	NSE - VESSELS AND SHIPBOARD SYSTEMS, Ifremer
ESSAIS CHALUTS	<i>Alis</i>	14 08 2015	18 08 2015	SW Pacific (140 W boundary)	ALLAIN Valérie	SECRETARIAT GENERAL OF THE PACIFIC COMMUNITY, CPS
ESSAUV15-EU	<i>L'Europe</i>	25 10 2015	04 11 2015	Western Mediterranean Basin	JAUSSAUD Patrick	IFREMER TOULON CENTER, Ifremer
ESS ET_PO	<i>Côtes De La Manche</i>	11 02 2015	11 02 2015	NE Atlantic (40 W boundary)	DE SAINT LEGER Emmanuel	INSU TECHNICAL DIVISION, CNRS
ESSHROV2	<i>Le Suroît</i>	14 03 2015	27 03 2015	Western Mediterranean Basin	SIMEONI Patrick	IFREMER TOULON CENTER, Ifremer
ESSHROV3	<i>L'Europe</i>	08 05 2015	21 05 2015	Western Mediterranean Basin	RAUGEL Ewen	IFREMER TOULON CENTER, Ifremer
ESS MER	<i>Pourquoi pas?</i>	15 03 2015	15 03 2015	Baltic Sea	LE BLIGUET Patrick	GENAVIR BREST, Ifremer
ESS MOTEUR	<i>Alis</i>	11 07 2015	12 07 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
ESS PENCAR	<i>Pourquoi pas?</i>	28 03 2015	03 04 2015	Celtic Sea	DUSSUD Loïc	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
ESS PENCARSYSROV	<i>Pourquoi pas?</i>	21 07 2015	30 07 2015	Celtic Sea	DUSSUD Loïc	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
ESSPENF50	<i>Pourquoi pas?</i>	10 10 2015	16 10 2015	Western Mediterranean Basin	DUSSUD Loïc	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
ESS SISMRH	<i>Pourquoi pas?</i>	31 07 2015	02 08 2015	Bay of Biscay	DUDUYER Sarah	NSE - VESSELS AND SHIPBOARD SYSTEMS, Ifremer
ESS SMT	<i>L'Atalante</i>	28 08 2015	09 09 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
ESSTECH	<i>Alis</i>	15 07 2015	15 07 2015	SW Pacific (140 W boundary)	TREDUNIT Gilles	GENAVIR BREST, Ifremer
ESSTECH15-GEN-EU	<i>L'Europe</i>	14 01 2015	14 01 2015	Western Mediterranean Basin	RAILLARD Jean-Michel	GENAVIR BREST, Ifremer
ESSTECH15-HA	<i>Haliotis</i>	17 03 2015	20 03 2015	NE Atlantic (40 W boundary)	BISQUAY Hervé	GENAVIR BREST, Ifremer
ESSTECH15-IFR-EU	<i>L'Europe</i>	23 03 2015	29 03 2015	Western Mediterranean Basin	LE BOUFFANT Naïg	TSI/AS-SEISMIC ACOUSTICS SERVICE, Ifremer
ESSTECH15-TH	<i>Thalia</i>	22 02 2015	25 02 2015	NE Atlantic (40 W boundary)	BISQUAY Hervé	GENAVIR BREST, Ifremer
EVHOE 2015	<i>Thalassa</i>	17 10 2015	01 12 2015	Bay of Biscay	LEAUTE Jean-Pierre	IFREMER LA ROCHELLE-L'HOUMEAU STATION, Ifremer
FISSEL 2015 LEG1	<i>Haliotis</i>	01 06 2015	09 06 2015	Bay of Biscay	HENAFF Alain	GEOMER - UMR 6554 LETG (LITTORAL, ENV., REMOTE SENSING.GEOMAT.), University of western Brittany (UBO)
FISSEL 2015 LEG2	<i>Haliotis</i>	13 06 2015	17 06 2015	Bay of Biscay	HENAFF Alain	GEOMER - UMR 6554 LETG (LITTORAL, ENV., REMOTE SENSING.GEOMAT.), University of western Brittany (UBO)
FISSEL 2015 LEG3	<i>Haliotis</i>	19 06 2015	30 06 2015	Bay of Biscay	HENAFF Alain	GEOMER - UMR 6554 LETG (LITTORAL, ENV., REMOTE SENSING.GEOMAT.), University of western Brittany (UBO)
FISSEL 2015 LEG4	<i>Haliotis</i>	01 07 2015	03 07 2015	Bay of Biscay	HENAFF Alain	GEOMER - UMR 6554 LETG (LITTORAL, ENV., REMOTE SENSING.GEOMAT.), University of western Brittany (UBO)
GEODESEA	<i>Téthys II</i>	17 06 2015	22 06 2015	Ligurian Sea	ROYER Jean-Yves	IUEM MARINE OBSERVATORY (OSU-IUEM), University of Western Brittany (UBO)
GHASS	<i>Pourquoi pas?</i>	31 08 2015	30 09 2015	Black Sea	KER Stéphan	GM- MARINE GEOSCIENCES, Ifremer
GITAN	<i>Pourquoi pas?</i>	05 08 2015	15 08 2015	Bay of Biscay	TOUCANNE Samuel	GM- MARINE GEOSCIENCES, Ifremer
HABENT	<i>Thalia</i>	13 03 2015	22 03 2015	NE Atlantic (40 W boundary)	THIEBAUT Eric	ROSCOFF BIOLOGICAL STATION (OSU-SBR), CNRS
HAWKEYE3-GDM	<i>Sepiola</i>	08 09 2015	09 09 2015	Bay of Biscay	CORDIER Céline	DYNECO-LEBCO COASTAL BENTHIC ECOLOGY LABORATORY, Ifremer
H2O LEG1	<i>Côtes De La Manche</i>	15 03 2015	20 03 2015	English Channel	LESOURD Sandric	UMR 6143 M2C CONTINENTAL AND COASTAL MORPHODYNAMICS LABORATORY, University of Caen
H2O LEG2	<i>Côtes De La Manche</i>	01 05 2015	03 05 2015	English Channel	LESOURD Sandric	UMR 6143 M2C CONTINENTAL AND COASTAL MORPHODYNAMICS LABORATORY, University of Caen

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
H2O LEG3	<i>Côtes De La Manche</i>	01 08 2015	03 08 2015	English Channel	LESOURD Sandric	UMR 6143 M2C CONTINENTAL AND COASTAL MORPHODYNAMICS LABORATORY, University of Caen
H2O LEG4	<i>Côtes De La Manche</i>	01 10 2015	02 10 2015	English Channel	LESOURD Sandric	UMR 6143 M2C CONTINENTAL AND COASTAL MORPHODYNAMICS LABORATORY, University of Caen
IBTS 2015	<i>Thalassa</i>	10 01 2015	11 02 2015	North Sea	VERIN Yves	HMMN- ENGLISH CHANNEL-NORTH SEA FISHERIES SCIENCES DEPARTMENT, Ifremer
IPARO	<i>Côtes De La Manche</i>	10 09 2015	15 09 2015	NE Atlantic (40 W boundary)	COLAS Florent	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
KARUBENTHOS 2	<i>Antea</i>	06 06 2015	30 06 2015	Caribbean Sea	CORBARI Laure	SYSTEMATICS & EVOLUTION DEPARTMENT, National Museum of natural history MNHN
MAURITANIE LEG1	<i>Beautemps-Beaupré</i>	12 02 2015	21 02 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
MAURITANIE LEG2	<i>Beautemps-Beaupré</i>	28 02 2015	10 03 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
MAURITANIE LEG3	<i>Beautemps-Beaupré</i>	19 03 2015	27 03 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
MD 200 / LOGIPEV	<i>Marion Dufresne</i>	06 01 2015	10 02 2015	Indian Ocean	SANGIARDI Pierre	PAUL-EMILE VICTOR FRENCH POLAR INSTITUTE (IPEV), IPEV
MEDBIONET	<i>L'Europe</i>	15 09 2015	10 10 2015	Tyrrhenian Sea	ANDRAL Bruno	IFREMER TOULON CENTER, Ifremer
MEDITS 2015	<i>L'Europe</i>	22 05 2015	27 06 2015	Western Mediterranean Basin	JADAUD Angélique	IFREMER SETE STATION, Ifremer
MERCAUX 2015	<i>Thalia</i>	20 06 2015	05 07 2015	English Channel	PAQUET Fabien	BUREAU OF GEOLOGY & MIN. RESEARCH/GEO (BRGM, ORLEANS), BRGM
MEUST 2015 LEG1	<i>Téthys II</i>	22 04 2015	24 04 2015	Western Mediterranean Basin	GOJAK Carl	INSU TECHNICAL DIVISION, CNRS
MEUST 2015 LEG2	<i>Téthys II</i>	04 06 2015	06 06 2015	Western Mediterranean Basin	GOJAK Carl	INSU TECHNICAL DIVISION, CNRS
MGTS 2015 LEG1	<i>Thalia</i>	02 03 2015	09 03 2015	Bay of Biscay	SCHAEFER Jorg	EPOC - DEPARTMENT OF GEOLOGY AND OCEANOLOGRAPHY (DGO), University of Bordeaux I
MGTS 2015 LEG2	<i>Thalia</i>	12 10 2015	20 10 2015	Bay of Biscay	COYNEL Alexandra	EPOC - DEPARTMENT OF GEOLOGY AND OCEANOLOGRAPHY (DGO), University of Bordeaux I
MINERVE 2015	<i>L'Astrolabe</i>	01 03 2015	19 03 2015	Antarctic Ocean	TOURATIER Franck	IMAGES-INSTITUTE FOR MODELING AND ANALYSIS OF MARINE GEO-ENVIRONMENT, University of Perpignan

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
MINERVE 2015/2016	<i>L'Astrolabe</i>	28 11 2015	05 03 2016	Antarctic Ocean	TOURATIER Franck	IMAGES-INSTITUTE FOR MODELING AND ANALYSIS OF MARINE GEO-ENVIRONMENT, University of Perpignan
MOMARSAT2015	<i>Pourquoi pas?</i>	08 04 2015	29 04 2015	North Atlantic Ocean	SARRADIN Pierre-Marie	EEP/LEP DEEP SEA ENVIRONMENT LABORATORY, Ifremer
MOOSE (ANTARES)	<i>L'Europe</i>	07 02 2015	07 02 2015	Western Mediterranean Basin	BHAIRY Nagib	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
MOOSE (ANTARES)	<i>Téthys II</i>	26 01 2015	16 12 2015	Western Mediterranean Basin	BHAIRY Nagib	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
MOOSE (DYFAMED)	<i>Téthys II</i>	02 01 2015	21 12 2015	Ligurian Sea	DIAMOND-RIQUIER Emilie	OCEANOGRAPHY LABORATORY OF VILLEFRANCHE (LOV), University of Paris VI - UPMC
MOOSE-GE 2015	<i>Le Suroît</i>	10 07 2015	27 07 2015	Western Mediterranean Basin	TESTOR Pierre	LOCEAN OCEANOGRAPHY AND CLIMATE LABORATORY, UMR 7159, University of Paris VI - UPMC
MUG_OBS_LIGUTRE	<i>Téthys II</i>	19 11 2015	27 11 2015	Ligurian Sea	HELLO Yann	GEOSCIENCES AZUR - SOPHIA ANTIPOLIS (GEOAZUR), CNRS
NECTALIS-4	<i>Alis</i>	19 10 2015	26 10 2015	SW Pacific (140 W boundary)	ALLAIN Valérie	SECRETARIAT GENERAL OF THE PACIFIC COMMUNITY, CPS
NODULE 2015	<i>L'Atalante</i>	30 10 2015	01 12 2015	NE Pacific (180 W Boundary)	PELLEAU Pascal	GM- MARINE GEOSCIENCES, Ifremer
NURSE 2015	<i>Thalia</i>	20 08 2015	05 09 2015	Bay of Biscay	BRIND'AMOUR Anik	EMH- ECOLOGY AND MODELS FOR FISHERIES SCIENCE DEPARTMENT, Ifremer
ORHAGO 15	<i>Côtes De La Manche</i>	24 11 2015	13 12 2015	Bay of Biscay	COUPEAU Yann	IFREMER LA ROCHELLE-L'HOUMEAU STATION, Ifremer
OSCAHR	<i>Téthys II</i>	29 10 2015	06 11 2015	Western Mediterranean Basin	DOGLIOLI Andrea	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
OUTPACE	<i>L'Atalante</i>	18 02 2015	03 04 2015	South Pacific	MOUTIN Thierry	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
PACOTILLES-1	<i>Antea</i>	21 04 2015	10 05 2015	Caribbean Sea	FAUVELOT Cécile	IRD NOUMEA CENTER, IRD
PACOTILLES-2	<i>Antea</i>	13 05 2015	02 06 2015	Caribbean Sea	PEREZ Thierry	MED. INSTITUTE OF BIODIVERSITY & MARINE AND CONTINENTAL ECOLOGY, University of the Mediterranean (U2)
PAMELA-MOZ04	<i>Pourquoi pas?</i>	12 11 2015	22 12 2015	Mozambique Channel	JOUET Gwenaël	GM- MARINE GEOSCIENCES, Ifremer
PARTICULE LEG1	<i>Téthys II</i>	13 04 2015	13 04 2015	Western Mediterranean Basin	PULIDO-VILLENA Elvira	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
PARTICULE LEG2	<i>Téthys II</i>	24 06 2015	24 06 2015	Western Mediterranean Basin	PULIDO-VILLENA Elvira	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
PARTICULE LEG3	<i>Téthys II</i>	23 07 2015	23 07 2015	Western Mediterranean Basin	PANAGIOTOPOULOS Christos	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 7294, University of the Mediterranean (U2)
PELGAS 2015	<i>Thalassa</i>	29 04 2015	02 06 2015	Bay of Biscay	DORAY Mathieu	EMH- ECOLOGY AND MODELS FOR FISHERIES SCIENCE DEPARTMENT, Ifremer
PELMED 2015	<i>L'Europe</i>	28 06 2015	02 08 2015	Western Mediterranean Basin	BOURDEIX Jean-Hervé	IFREMER SETE STATION, Ifremer
PIRATA FR25	<i>Thalassa</i>	18 03 2015	16 04 2015	Atlantic Ocean	BOURLES Bernard	IRD BRITTANY CENTER, IRD
PLUMRHO LEG1	<i>Téthys II</i>	31 01 2015	06 02 2015	Western Mediterranean Basin	VERNEY Romaric	DYNECO/PHYSED- HYDRODYNAMICS AND SEDIMENTARY PHYSICS LABORATORY, Ifremer
PLUMRHO LEG2	<i>Téthys II</i>	23 02 2015	01 03 2015	Western Mediterranean Basin	VERNEY Romaric	DYNECO/PHYSED- HYDRODYNAMICS AND SEDIMENTARY PHYSICS LABORATORY, Ifremer
POLYPLAC2	<i>L'Atalante</i>	21 04 2015	06 05 2015	South Pacific	LOUBRIEU Benoit	GM- MARINE GEOSCIENCES, Ifremer
POSA	<i>Beautemps-Beaupré</i>	05 05 2015	17 05 2015	Mediterranean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
POSIDCORSE	<i>L'Europe</i>	04 08 2015	29 08 2015	Western Mediterranean Basin	CLABAUT Philippe	CONSULTANT GEOLOGY, consultant
PROTEUS 2015	<i>Beautemps-Beaupré</i>	16 04 2015	02 05 2015	Mediterranean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
PROTEVS 2015	<i>Pourquoi pas?</i>	09 01 2015	23 01 2015	Mediterranean	LOUAZEL Stéphanie	SHOM - BREST CENTER, French Navy/SHOM
RECUP LIONCEAU	<i>L'Europe</i>	11 11 2015	13 11 2015	Western Mediterranean Basin	KUNESCH Stéphane	CEFREM MARINE ENVIRONMENT RESEARCH AND TRAINING CENTER, University of Perpignan
RECUP PIEZO	<i>Thalia</i>	01 04 2015	01 04 2015	Bay of Biscay	EHRHOLD Axel	GM- MARINE GEOSCIENCES, Ifremer
REMANTAS	<i>Côtes De La Manche</i>	14 06 2015	20 06 2015	NE Atlantic (40 W boundary)	RINNERT Emmanuel	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
REM2040-01	<i>Thalia</i>	18 05 2015	24 05 2015	Bay of Biscay	DUDUYER Sarah	NSE - VESSELS AND SHIPBOARD SYSTEMS, Ifremer
REM2040-02	<i>Thalia</i>	29 10 2015	04 11 2015	Bay of Biscay	PACAULT Anne	NSE - VESSELS AND SHIPBOARD SYSTEMS, Ifremer


Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
ROCCHSED15	<i>Thalia</i>	07 06 2015	16 06 2015	English Channel	CHIFFOLEAU Jean-François	DPT RBE / UR BIOGEOCHEMISTRY & ECOTOXICOLOGY (NANTES), Ifremer
RREX	<i>Thalassa</i>	05 06 2015	10 07 2015	North Atlantic Ocean	THIERRY Virginie	OPS OCEAN PHYSICS LABORATORY (LPO), Ifremer
SAMOA-SPT	<i>Alis</i>	27 08 2015	10 09 2015	South Pacific	SCHNEIDER Jean-Luc	EPOC OCEAN ENVIRONMENTS & PALEOENVIRONMENTS, University of Bordeaux I
SERABEQ-02 LEG1	<i>Haliotis</i>	16 02 2015	23 02 2015	Bay of Biscay	GREGOIRE Gwendoline	GM- MARINE GEOSCIENCES, Ifremer
SERABEQ-02 LEG2	<i>Haliotis</i>	25 03 2015	27 03 2015	Bay of Biscay	GREGOIRE Gwendoline	GM- MARINE GEOSCIENCES, Ifremer
SERABEQ-03	<i>Thalia</i>	17 04 2015	28 04 2015	NE Atlantic (40 W boundary)	EHRHOLD Axel	GM- MARINE GEOSCIENCES, Ifremer
SHOMCAL_CHESTERFIEDS	<i>L'Atalante</i>	27 06 2015	08 07 2015	Coral Sea	IETA LAMARRE	SHOM - BREST CENTER, French Navy/SHOM
SHOMCAL GRAND LAGON NORD	<i>L'Atalante</i>	21 06 2015	25 06 2015	Coral Sea	IETA LAMARRE	SHOM - BREST CENTER, French Navy/SHOM
SHOMCAL_SARCELLE	<i>L'Atalante</i>	10 07 2015	13 07 2015	Coral Sea	IETA LAMARRE	SHOM - BREST CENTER, French Navy/SHOM
SHOMED	<i>Beautemps-Beaupré</i>	23 05 2015	28 05 2015	Mediterranean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
SIMEO1	<i>Thalia</i>	26 03 2015	27 03 2015	NE Atlantic (40 W boundary)	WOERTHER Patrice	RDT - DPT TECHNOLOGICAL RESEARCH & DEVELOPMENT, Ifremer
SOGIR 15	<i>Côtes De La Manche</i>	12 01 2015	05 11 2015	Bay of Biscay	DERRIENNIC Hervé	EPOC - DEPARTMENT OF GEOLOGY AND OCEANOGRAPHY (DGO), University of Bordeaux I
SPEEDUNES	<i>Thalia</i>	29 04 2015	17 05 2015	NE Atlantic (40 W boundary)	LE DANTEC Nicolas	UMR 6538 CNRS "OCEAN DOMAINS" (LDO) - IUEM, University of western Brittany (UBO)
SPOT2015-LEG1 (09)	<i>Alis</i>	22 05 2015	28 05 2015	SW Pacific (140 W boundary)	DOUILLET Pascal	IRD NOUMEA CENTER, IRD
SPOT2015-LEG3 (11)	<i>Alis</i>	21 09 2015	26 09 2015	Coral Sea	BIEGALA Isabelle	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY LUMINY (MIO) UMR 235 IRD
SPOT2015-LEG4 (12)	<i>Alis</i>	29 11 2015	02 12 2015	SW Pacific (140 W boundary)	DUPOUY Cécile	MEDITERRANEAN INSTITUTE OF OCEANOGRAPHY (UMR 235 MIO) - NOUMEA, University of the Mediterranean (U2)
STEP 2015	<i>L'Europe</i>	23 04 2015	07 05 2015	Western Mediterranean Basin	THOMAS Yannick	GM- MARINE GEOSCIENCES, Ifremer

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
STORM	<i>L'Atalante</i>	01 01 2015	04 02 2015	Antarctic Ocean	BRIAIS Anne	GEOSCIENCES ENVIRONNEMENT TOULOUSE (GET/CNRS/INSU), University of Toulouse III
SURVOSTRAL 2015/2016	<i>L'Astrolabe</i>	23 10 2015	05 03 2016	Antarctic Ocean	MORROW-GREINER Rosemary	LEGOS SPATIAL GEOPHYSICS AND OCEANOGRAPHY LABORATORY, CNRS
SYNAPSES LEG1	<i>Côtes De La Manche</i>	20 01 2015	07 02 2015	English Channel	VERNEY Romaric	DYNECO/PHYSED- HYDRODYNAMICS AND SEDIMENTARY PHYSICS LABORATORY, Ifremer
SYNAPSES LEG2	<i>Côtes De La Manche</i>	13 07 2015	31 07 2015	English Channel	VERNEY Romaric	DYNECO/PHYSED- HYDRODYNAMICS AND SEDIMENTARY PHYSICS LABORATORY, Ifremer
TECTA	<i>L'Atalante</i>	02 09 2015	10 10 2015	SW Pacific (140 W boundary)	COLLOT Julien	DIRECTORATE of INDUSTRY, MINES AND ENERGY (DIMENC), Direction de l'Industrie, des Mines et de l'Energie
THAPENFROM 2015	<i>Thalia</i>	26 05 2015	06 06 2015	NE Atlantic (40 W boundary)	DUPERRET Anne	WAVES AND COMPLEX MEDIA LABORATORY (LOMC) UMR6294 - PRONY, CNRS
TRACES 2015	<i>Côtes De La Manche</i>	22 05 2015	29 05 2015	English Channel	LAGUIONIE Philippe	INSTITUTE FOR RADIOPROTECTION AND NUCLEAR SAFETY, CEA
TR APINMA	<i>Alis</i>	11 09 2015	17 09 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BAEOR	<i>Thalia</i>	09 03 2015	10 03 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BAYCDB	<i>Thalia</i>	17 08 2015	20 08 2015	Bay of Biscay	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BORLTU	<i>Thalia</i>	19 10 2015	20 10 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BREBAE	<i>Thalia</i>	26 02 2015	01 03 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BREBOU	<i>Thalassa</i>	19 09 2015	23 09 2015	English Channel	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BRECON	<i>Thalia</i>	05 11 2015	06 11 2015	Atlantic Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BRECON	<i>Thalassa</i>	01 12 2015	02 12 2015	NW Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BRECON	<i>Thalia</i>	25 05 2015	25 05 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR BREDOU	<i>Thalia</i>	26 03 2015	26 03 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
TR_BREGDA	<i>Pourquoi pas?</i>	02 02 2015	08 02 2015	Baltic Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_BRELHA	<i>Pourquoi pas?</i>	03 04 2015	08 04 2015	NW Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_BREMIN	<i>Thalassa</i>	05 03 2015	18 03 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_BREPAP	<i>Antea</i>	14 01 2015	03 02 2015	North Atlantic Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_BRESMA	<i>Antea</i>	18 11 2015	19 11 2015	English Channel	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_CONBRE	<i>Thalassa</i>	22 12 2015	23 12 2015	NW Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_CONBRE	<i>Thalia</i>	15 04 2015	16 04 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_CONLOR	<i>Thalia</i>	03 01 2015	04 01 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_COSSEY	<i>Pourquoi pas?</i>	02 10 2015	09 10 2015	Mediterranean region	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_DOUBRE	<i>Thalia</i>	24 10 2015	24 10 2015	Atlantic Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_FDFPAP	<i>Antea</i>	03 06 2015	05 06 2015	Caribbean Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_GDABRE	<i>Pourquoi pas?</i>	16 03 2015	22 03 2015	Baltic Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_HOBNMA	<i>L'Atalante</i>	04 02 2015	06 02 2015	SW Pacific (140 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_LORBRE	<i>Thalia</i>	21 02 2015	22 02 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_MANCOL	<i>L'Atalante</i>	05 12 2015	15 12 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_MINBRE	<i>Thalassa</i>	17 04 2015	27 04 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_NMAPAG	<i>Alis</i>	18 08 2015	28 08 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
TR_NMAPPT / ESK	<i>L'Atalante</i>	13 10 2015	27 10 2015	Pacific Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_OUICON	<i>Thalia</i>	31 07 2015	01 08 2015	English Channel	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_PAPFDE	<i>Antea</i>	12 05 2015	13 05 2015	Caribbean Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_PAPNAT	<i>Antea</i>	15 09 2015	27 09 2015	Atlantic Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_PPTNMA	<i>L'Atalante</i>	08 05 2015	18 05 2015	SW Pacific (140 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_RECBRE	<i>Antea</i>	22 10 2015	17 11 2015	Atlantic Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_ROSBRE	<i>Thalia</i>	22 03 2015	23 03 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SANCOS	<i>Pourquoi pas?</i>	16 08 2015	28 08 2015	Mediterranean region	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SEYBRE	<i>Pourquoi pas?</i>	25 01 2015	01 02 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SEYLON	<i>Pourquoi pas?</i>	19 10 2015	09 11 2015	Indian Ocean	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SMABRE	<i>Antea</i>	10 01 2015	11 01 2015	NE Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SNZBOR	<i>Thalia</i>	10 10 2015	11 10 2015	NW Atlantic (40 W boundary)	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SNZSQP	<i>Thalia</i>	05 09 2015	10 09 2015	Celtic Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TR_SQPNAN	<i>Thalia</i>	23 09 2015	26 09 2015	Celtic Sea	Transit with no chief scientist.	GENAVIR BREST, Ifremer
TV_BREST_FUNCHAL	<i>Beautemps-Beaupré</i>	01 08 2015	05 08 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV_BREST_NOUAKCHOTT	<i>Beautemps-Beaupré</i>	30 01 2015	07 02 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV_CADIX_FUNCHAL	<i>Beautemps-Beaupré</i>	08 06 2015	22 06 2015	Atlantic Ocean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM

Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
TV DAKAR MINDELO	<i>Beautemps-Beaupré</i>	27 02 2015	12 03 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV DAKAR TARRAGONE	<i>Beautemps-Beaupré</i>	02 04 2015	12 04 2015	Atlantic Ocean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
TV FUNCHAL BREST1	<i>Beautemps-Beaupré</i>	15 07 2015	25 07 2015	Atlantic Ocean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
TV FUNCHAL BREST2	<i>Beautemps-Beaupré</i>	24 09 2015	27 09 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV FUNCHAL FUNCHAL	<i>Beautemps-Beaupré</i>	27 06 2015	10 07 2015	Atlantic Ocean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
TV MARPORT	<i>Thalassa</i>	12 02 2015	16 02 2015	English Channel	NOKIN Marc	NSE - VESSELS AND SHIPBOARD SYSTEMS, Ifremer
TV MINDELO DAKAR	<i>Beautemps-Beaupré</i>	17 03 2015	29 03 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV NOUAKCHOTT DAKAR	<i>Beautemps-Beaupré</i>	09 02 2015	23 02 2015	Atlantic Ocean	IETA Adélaïde MISSAULT	SHOM - BREST CENTER, French Navy/SHOM
TV RECUP	<i>Thalia</i>	18 06 2015	19 06 2015	NE Atlantic (40 W boundary)	LE DANTEC Nicolas	UMR 6538 CNRS "OCEAN DOMAINS" (LDO) - IUEM, University of western Brittany (UBO)
TV SHOMCAL	<i>L'Atalante</i>	18 06 2015	14 07 2015	Coral Sea	IETA LAMARRE	SHOM - BREST CENTER, French Navy/SHOM
TV TOULON CADIX	<i>Beautemps-Beaupré</i>	29 05 2015	04 06 2015	Mediterranean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
TV TOULON MESSINE	<i>Beautemps-Beaupré</i>	22 05 2015	29 05 2015	Mediterranean	IETA MOUTON	SHOM - BREST CENTER, French Navy/SHOM
VAGUES LB	<i>Côtes De La Manche</i>	22 10 2015	28 10 2015	NE Atlantic (40 W boundary)	ARDHUIN Fabrice	OPS OCEAN PHYSICS LABORATORY (LPO), Ifremer
VESPA	<i>L'Atalante</i>	22 05 2015	17 06 2015	SW Pacific (140 W boundary)	PATRIAT Martin	GM- MARINE GEOSCIENCES, Ifremer
VOLT 1	<i>Thalia</i>	14 08 2015	17 08 2015	Bay of Biscay	SIMPLET Laure	GM- MARINE GEOSCIENCES, Ifremer
VT 141 / OHA-SIS-BIO-7	<i>Marion Dufresne</i>	06 01 2015	10 02 2015	Indian Ocean	ROYER Jean-Yves	IUEM MARINE OBSERVATORY (OSU-IUEM), University of Western Brittany (UBO)
VT 142 / OISO-24	<i>Marion Dufresne</i>	06 01 2015	10 02 2015	Indian Ocean	METZL Nicolas	LOCEAN OCEANOGRAPHY AND CLIMATE LABORATORY, UMR 7159, University of Paris VI - UPMC



Cruise	Vessel	Start date	End date	Geographical area	Name of chief scientist	Chief scientist's laboratory
VT 143 / MDCPR	<i>Marion Dufresne</i>	06 01 2015	10 02 2015	Indian Ocean	KOUBBI Philippe	UMR BOREA: BIOLOGY OF AQUATIC ORGANISMS 1 ENVIRONMENTS, National Museum of natural history MNHN
VT 144 / MYCTO	<i>Marion Dufresne</i>	06 01 2015	10 02 2015	Indian Ocean	ROUDAUT Gildas	IRD BRITTANY CENTER, IRD



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6 Acronyms

ADCP	Acoustic Doppler Current Profiler
BHO	Hydrographic and oceanographic ship
BSH/DOD	Federal maritime and hydrographic agency of Germany / German oceanographic data center
CEA	Atomic Energy Commission
CNEXO	National center for ocean exploitation
CNFC	National coastal fleet commission
CNFH	National ocean-going fleet commission
CNRS	National center for scientific research
CODIR	Steering committee
COSS	Strategic and scientific orientation council
CSR	Cruise Summary Report (formerly called ROSCOP)
CTD	Conductivity Temperature Depth
DEM	Digital Elevation Model
DMON	Division of seagoing facilities and operations
DOI	Digital Object Identifier
GENAVIR	Research-vessel management (IFREMER group)
ICES	International Council for the Exploration of the Sea
ICRAM	Italian Central institute for applied marine research
IDM	IT and Marine Data Department
IEO	Spanish oceanography institute
IFREMER	French research institute for exploitation of the sea (formerly ISTPM-CNEXO)
IFRTP	French polar research and technology institute
IMN	Marine and digital infrastructure department
INSU	National institute for sciences of the universe
IOC	Intergovernmental Oceanographic Commission
IODE	International Oceanographic Data and Information Exchange
IPEV	Paul Emile Victor French polar institute
IRD	French research institute for cooperative development (formerly ORSTOM)
ISI	Information systems engineering
ISTPM	Scientific and technical institute for marine fisheries
JSU	Joint service unit
MNHN	National museum of natural history
OFEG	Ocean Facilities Exchange Group
ROV	Remote Operated Vehicle
RV	Research vessel
SAR	Towed acoustic system
SHOM	French navy hydrographic and oceanographic service
SISMER	Marine scientific information systems
TAAF	French Southern and Antarctic lands
TGIR	Very large Research Infrastructure
UNESCO	United Nations Educational, Scientific and Cultural Organization
XBT	Expendable BathyThermograph