

**The Fondation Pacifique presents**

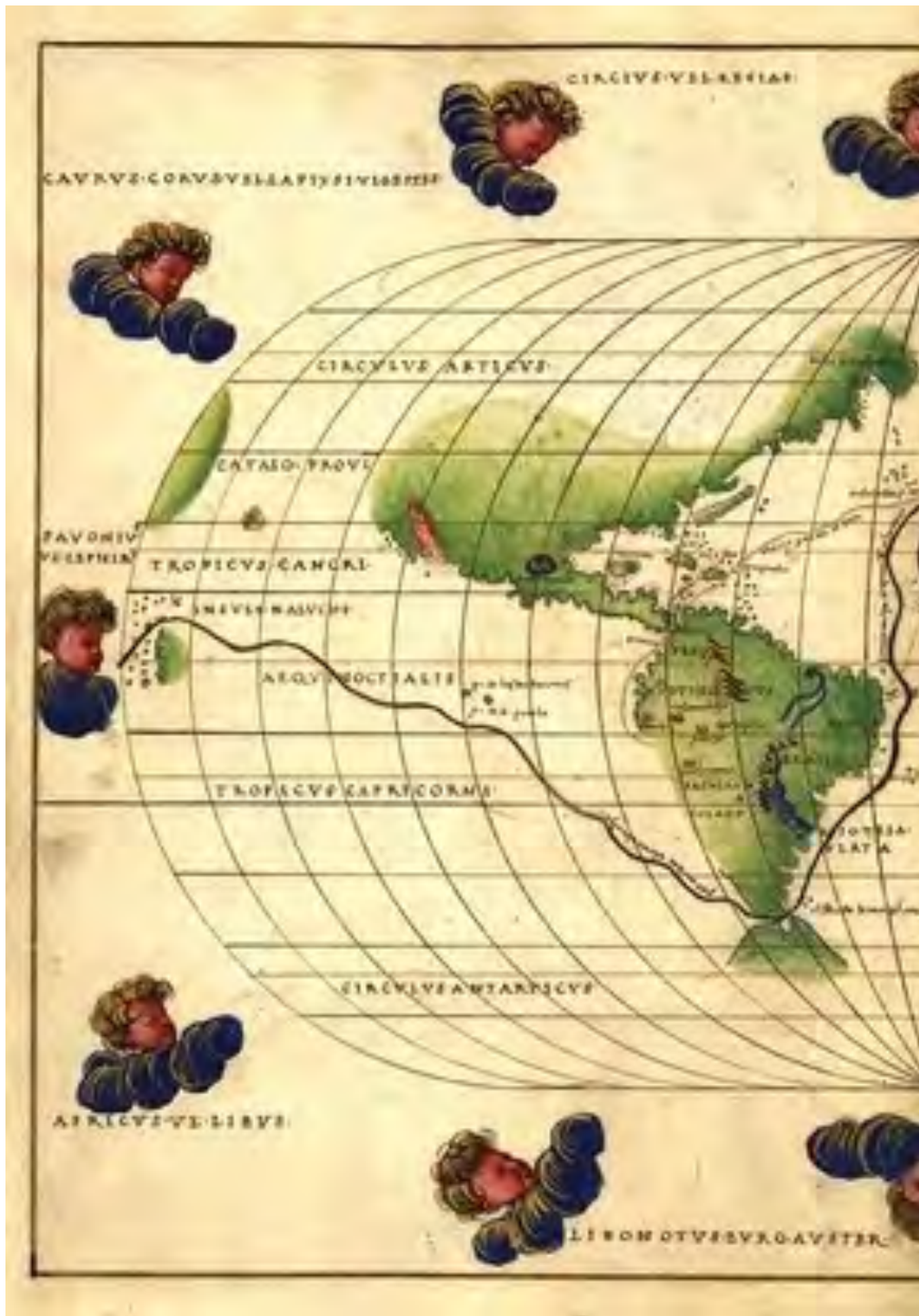


# **THE OCEAN MAPPING EXPEDITION**

In the wake of Ferdinand de Magellan

**500 years after the first  
ever circumnavigation,  
a journey around the world  
aboard the Swiss sailboat  
*Fleur de Passion*  
to map the human impact  
on the oceans**

Press Kit - March 2018  
[www.omexpedition.ch](http://www.omexpedition.ch)



"The quest for spices began it. From the days when the Romans, in their journeys and their wars, first acquired a taste for the hot or aromatic, the pungent or intoxicating dietetic adjuvants of the East, the Western World found it impossible to get on without a supply of Indian spices in cellar and storeroom."  
**Magellan, Stefan Zweig**

Some 500 years after Ferdinand Magellan, what are our spice islands? No longer in a literal but a figuratively sense. In a world with steadily dwindling resources, what are the material, and even more importantly, the spiritual resources that we need to discover to help us rethink our relationship with Planet Ocean to make it viable and sustainable? To reinvent peaceable relations between ourselves and other human beings?

This is what *The Ocean Mapping Expedition* is all about: a reflection suggested by this unique expedition that mirrors past and present, present and future. Setting out in the wake Magellan in some way recaptures the spirit of the great explorations and discoveries of past centuries, which continue to fire our imagination. But not making a fanciful and idealized representation of it. Nor attempting to reproduce a chapter of human history that belongs to the past.

Instead, Magellan's expedition (1519-1522) is a pretext for setting out to observe the oceans as they are today, to raise questions about the environmental issues at hand in the light of some of the major, timeless themes: the quest for knowledge and discovery; access to wealth and its distribution; the spirit of territorial, commercial, cultural and ideological conquest, of which we are finding it so difficult to rid ourselves; the uncontrollable quest for power and domination or, on the contrary, the search for better co-existence, the utopian dream of a world at peace and rid of weapons, like *Fleur de Passion*, the sailing boat at the heart of today's adventure.



## From Sevilla to Sevilla

4 years

**to observe, understand and map**

the state of the oceans and the human impact on this vital environment

**and to help rising awareness**

about sustainable development issues

in the wake of the expedition headed by the Portuguese explorer



# Science, Education & Culture/Communication

A combined approach of environmental  
and sustainable development issues  
through unique programs articulated around 3 pôles



**Learn**



**Share**



THE OCEAN MAPPING  
EXPEDITION

Plus de 1000 personnes ont participé  
à la mission de l'expédition en 2011.

Financée par le  
Ministère de l'Environnement et du Développement durable du Québec

**Rise awareness**

## Learning through science

On board *Fleur de Passion*,  
the scientific partners of the expedition  
develop their own program on human impact on the oceans  
and carry out field researches, be it on the long term  
or during specific missions

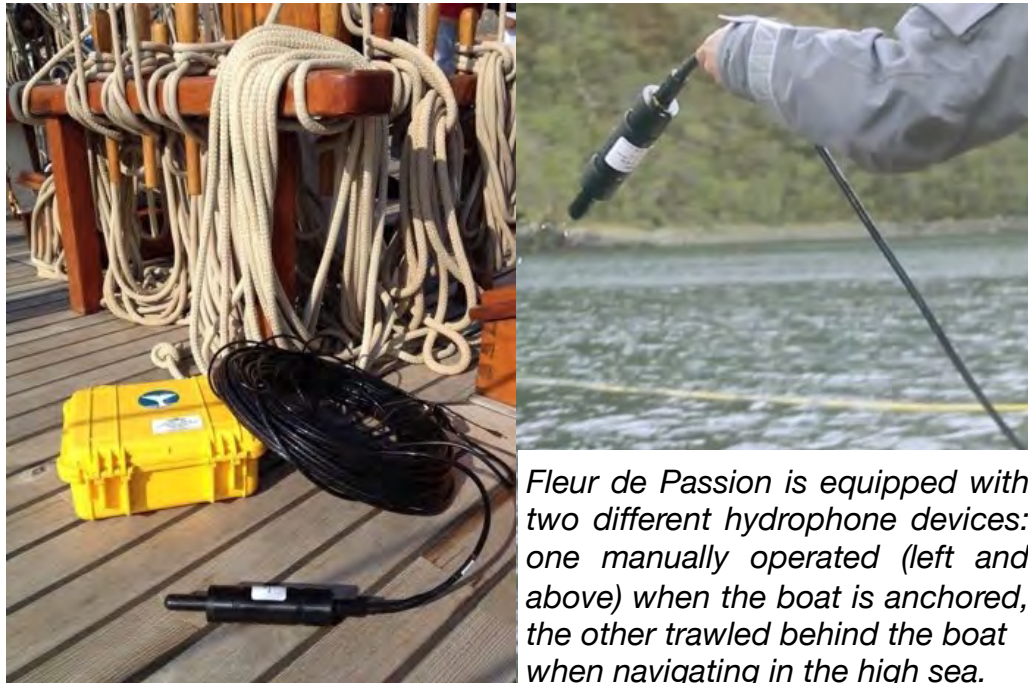
## Scientific hub (1)

# 20'000 Sounds Under the Seas



The scientific program **20 000 Sounds Under the Seas** launched in Seville aims to establish a map of noise pollution in the oceans (caused by shipping, sonars, oil & gas prospection, construction sites, etc), all along the journey around the world, in partnership with the Laboratory of Bioacoustics Applications (LAB) of the Polytechnic University of Cataluña, Barcelona, directed by world renowned biologist and engineer Michel André (photo below right).

Recordings can be heard on: [www.listentothedeep.net](http://www.listentothedeep.net)



*Fleur de Passion is equipped with two different hydrophone devices: one manually operated (left and above) when the boat is anchored, the other trawled behind the boat when navigating in the high sea.*





## Scientific hub (2)

### Micromégas



Also launched from Seville, the scientific program **Micromégas** - named after Voltaire's tale and which stands for « microwastes/megaproblems » - in partnership with the Geneva based Oceaneye association consists in collecting samples of sea water on a regular base in order to assess the quantity of micro- and mesoplastic pollution. Once conditioned on board, these samples are analyzed in Switzerland and provide Oceaneye with new datas on the phenomenon. The results of this mapping of plastic pollutants are shared with the United Nations Environnement Program (UNEP) and made available to the whole scientific community.

Results and analysis on: [www.oceaneye.ch](http://www.oceaneye.ch)



*Above from left to right: the sampling net towed behind the boat; the net after the sampling; the plastic particules once analysed. Top right: the samples once conditioned on board.*





### Scientific hub (3)

## CoralWatch



Launched from Brisbane, Australia, in March 2017, the « citizen science » program lead by University of Queensland based CoralWatch project consists in observing the state of the health of the corals and coral bleaching along the way of the expedition and collecting datas about this worldwide phenomenon caused by global warming. At the end of November, more than 1,000 observations had been made in Australia, the Solomon Islands, Papua New Guinea and Indonesia.

More on: <http://coralwatch.org>



*The observations are carried out by the crew of Fleur de Passion or any passenger on board duly briefed on the CoralWatch protocol.*

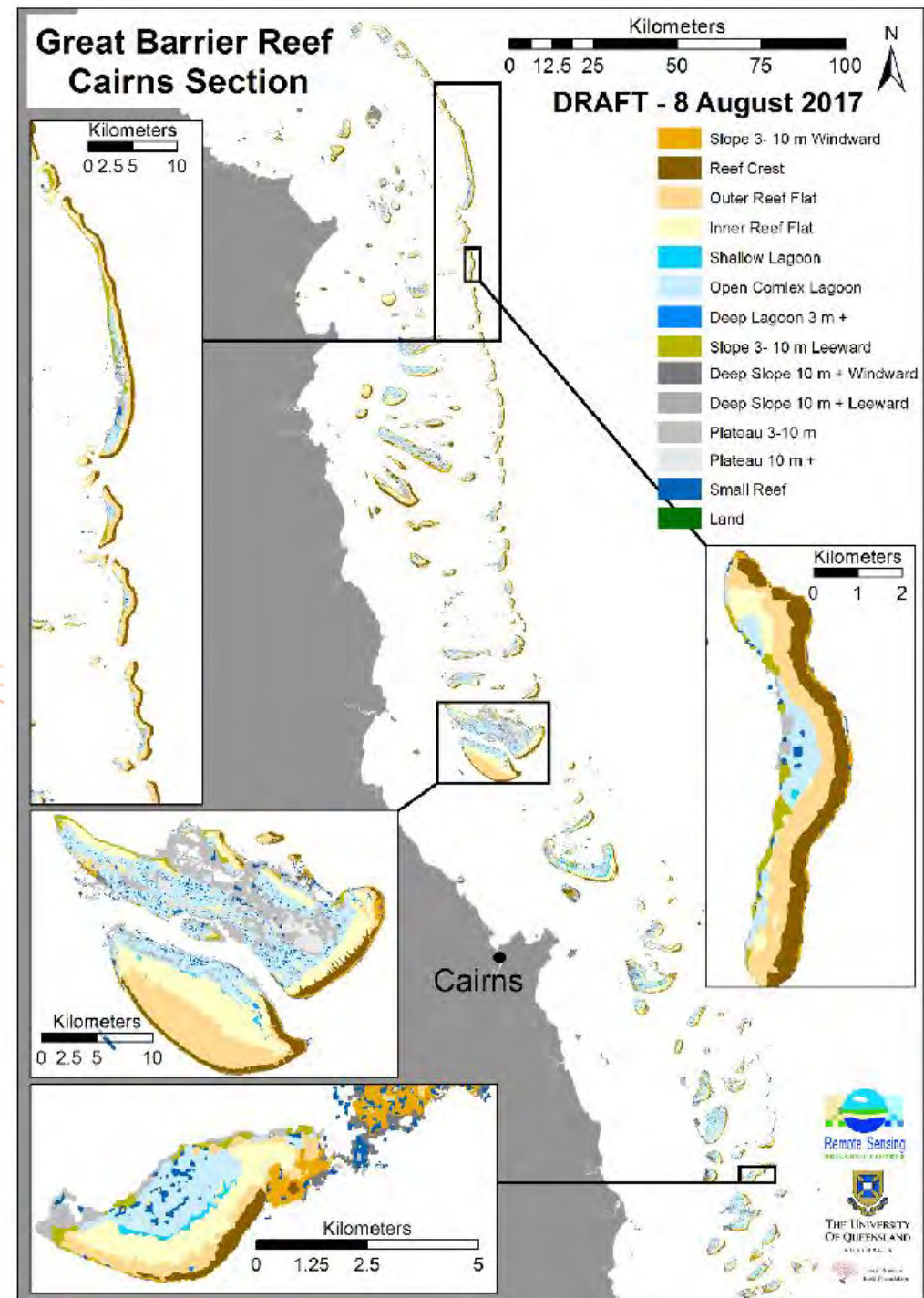
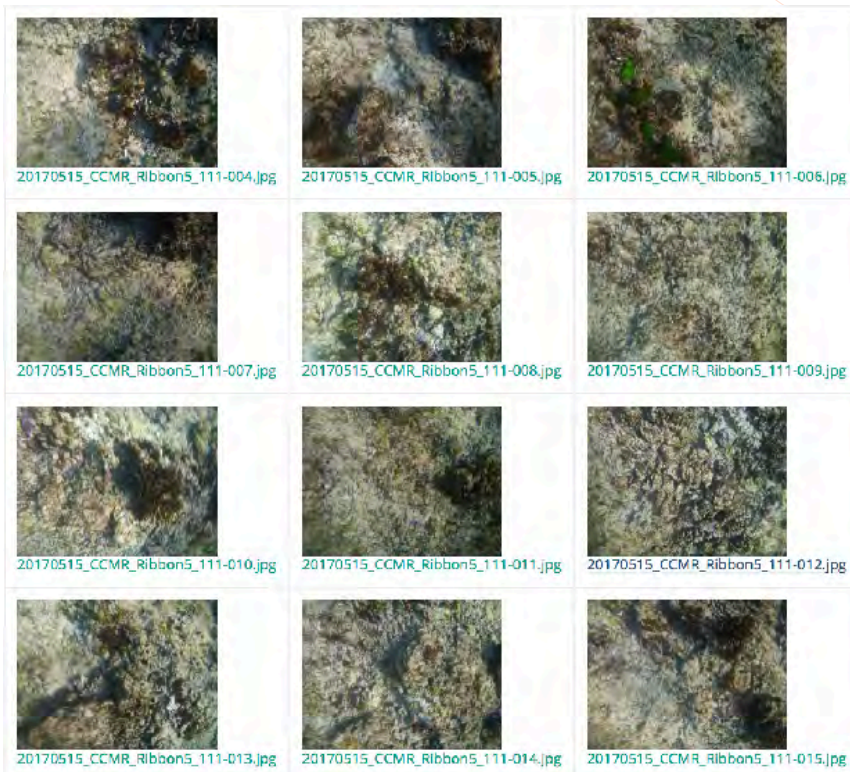


## Scientific hub (4)

### Live Habitat Mapping

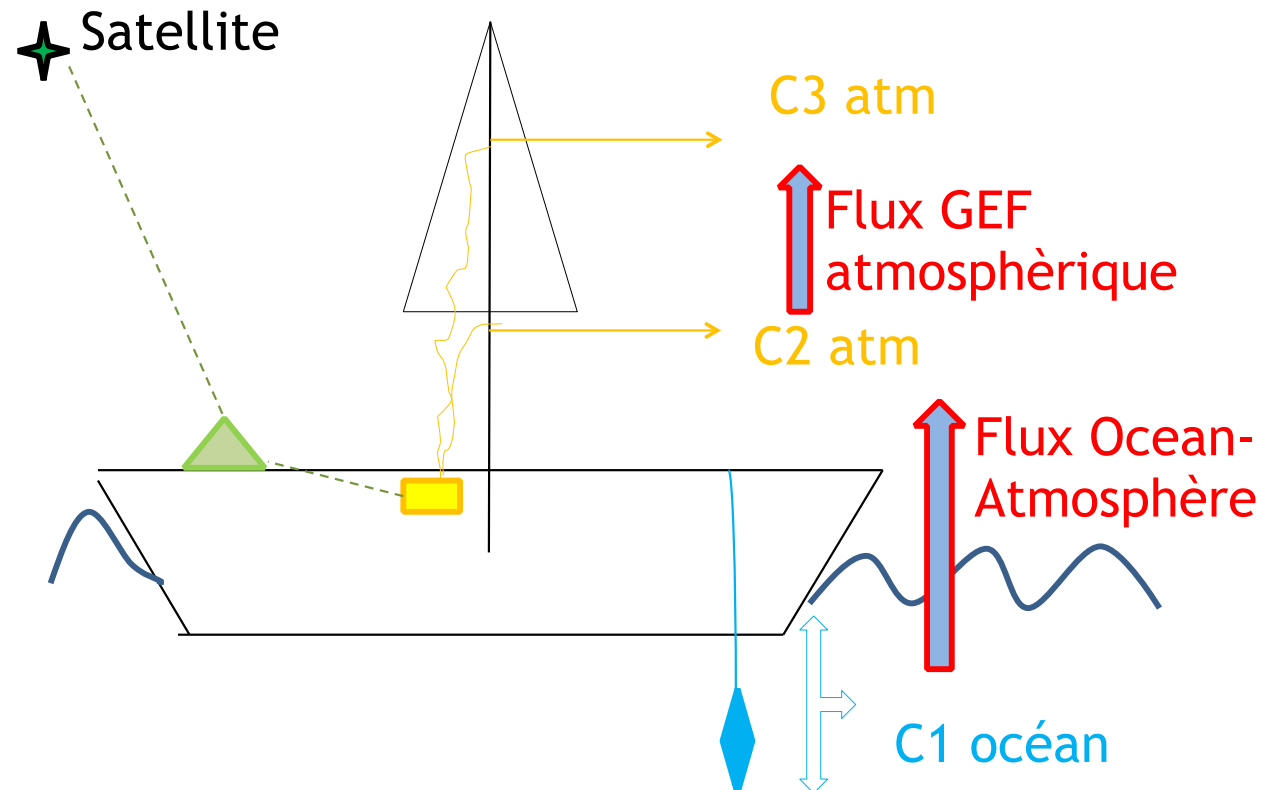
In April-May 2017, using *Fleur de Passion* as their logistical platform, a team of scientists from the Remote Sensing Research Center (RSRC), University of Queensland, performed 59 transects and took 12,000 photos on 17 reefs as part of a Live Habitat Mapping project of the Great Barrier Reef, between Cairns and Cooktown.

All these photos are now accessible on: <https://doi.pangaea.de/10.1594/PANGAEA.877570>



## The Winds of Change

Since December 2017 and the stopover in Cebu, Philippines, *Fleur de Passion* has been equipped with sensors and analyzer to continuously monitor greenhouse gases (methane and carbon dioxide) on the surface of the oceans. It will also have equipment that will allow parallel measurements of dissolved gas in the water column. This monitoring is being carried out as part of a new scientific program, *The Winds of Change*, developed in partnership with the aquatic physics group of Department F.-A. Forel of the University of Geneva. Unprecedented in its geographical scope, this program aims to better understand the role of the oceans in the issue of global warming at a precise moment when there's an urgent need to reassess their role in the world's carbon cycle. Thanks to these measurements, the data gathered will serve to validate and/or better calibrate other data currently being obtained from measurements by satellite and oceanographic and atmospheric models





## Sharing the experience

As a sailboat promoting a « working together » approach  
in a multi-disciplinary spirit,

*Fleur de Passion* is the privileged setting  
for whoever wants to embark for a week or more  
and experiment life at sea as a crew member,  
especially teenagers in search for a new start



## Sharing the experience hub (1)

### Youth at Sea



This socio-educational hub, with as its central project **Youth at Sea**, entails welcoming aboard *Fleur de Passion* a range of teenagers and young adults from Switzerland or elsewhere, in the context of reinsertion programs and of short, medium or long-term experience of life at sea, either by pair or in groups of 5-7.

More on the program on: [www.pacifique.ch](http://www.pacifique.ch)





## Sharing the experience hub (2)

### *Embark for the adventure*

No need to be either young, a scientist, a cartoonist or an experienced sailor to join in. Far from being an exclusive project accessible only to a happy few, *The Ocean Mapping Expedition* is the exact opposite: a project open to whoever wants to be part of the adventure and experiment life at sea on a sailboat where everyone is a crew member and takes his watch in a sharing experience atmosphere.

Because Pacifique Foundation is a non-for-profit organisation, the daily fee for embarking for a week or more is quite affordable and accessible through just a few clicks on: [www.omexpedition.ch/index.php/en/embark](http://www.omexpedition.ch/index.php/en/embark)



## **Rising awareness**

At each major stopover around the world  
or in Geneva, the « port of call » of the expedition,  
the public is invited to join the adventure  
and taste today's « spices »  
through a wide range of events and outreach initiative  
dedicated to rising awareness about  
environnemental issues



## Rising awareness hub (1)

### *In The Mirror of Magellan*

The cultural program *In The Mirror of Magellan* consists in welcoming cartoonists onboard *Fleur de Passion* throughout the journey. Based upon Magellan's expedition of 500 years ago, they make sketches on the themes of exploration, the quest for knowledge, and the links between humans and the sea & mother earth. The drawings are and will be used for various projects online and off-line including publications and exhibits.

**Pierre Wazem,**  
Strait of Magellan,  
December 2015

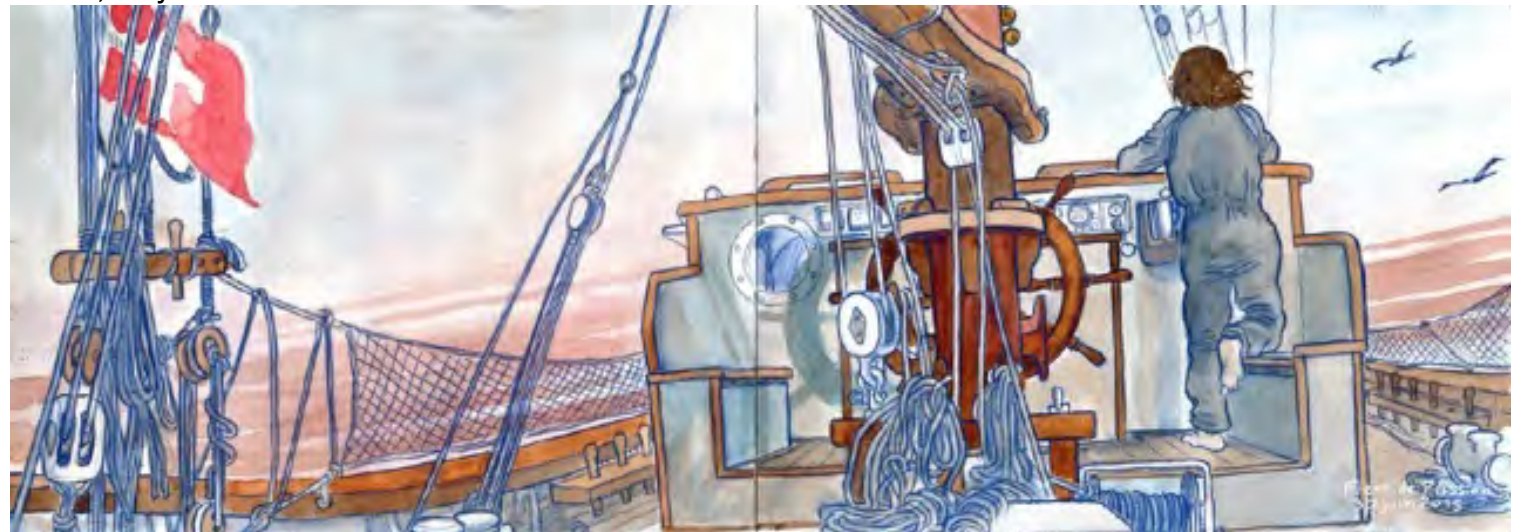


**Tom Tirabosco,**  
Brazil, July 2015



**Zep,**  
Portimao, March 2015

**Matthieu Berthod,**  
Sevilla-Las Palmas, April 2015







## Rising awareness hub (2)

Bringing the oceans  
at the heart of the city through  
public events, school visits...

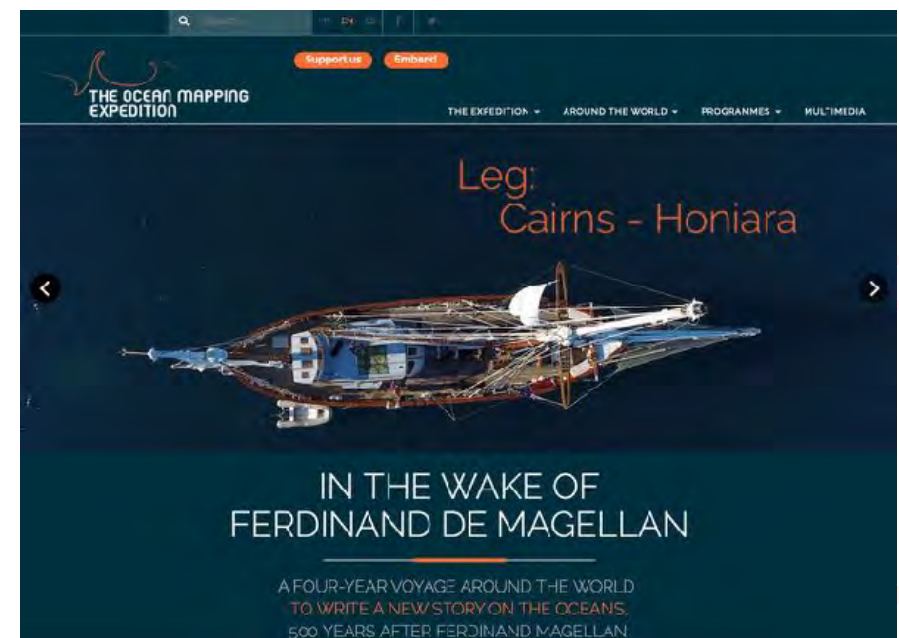
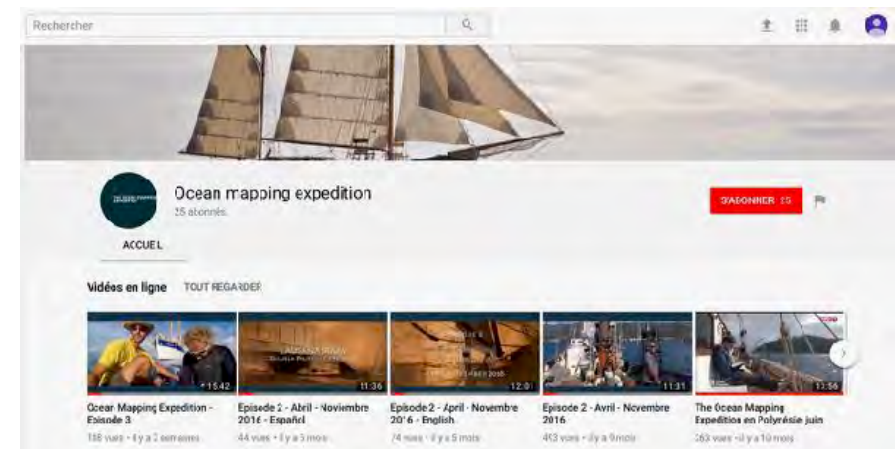
As it is the expedition's mission to share « today's spices » with the broader public, at main stopovers communication & outreach events are set up on and around *Fleur de Passion* in a spirit of rising awareness through guided visits of the boat, screenings, press conferences involving the expedition's partners, etc.





### Rising awareness hub (3)

Digital channels to permanently follow the expedition and its quest for a better understanding of the oceans



# Sevilla - Cebu (April 2015 - December 2017)

## An overview of the first half of the expedition

Since its departure, *The Ocean Mapping Expedition* has set up a significant milestone of its mission.

### 4 main scientific programs/mission in place and initial results

- **Micromégas: 132 water samples** have been collected by the crew, packed on board then sent to Switzerland for analysis. All samples have shown the presence of plastic particules, according to preliminary results.
- **20,000 Sounds Under the Seas: hours of recordings** have been made, especially in the Strait of Magellan and the Pacific Ocean, a unique contribution to mapping the noise pollution in the oceans.
- **CoralWatch: more than 1,000 observations** of the state of health of the coral have been carried out by the crew.
- **Live Habitat Mapping of the Great Barrier Reef: 12,000 pictures** have been taken on 17 reefs as part of a vast project involving some of the major oceanographic institutions from Australia.

### 39 young as privileged witnesses of the expedition

- 34 **teenagers and young adults** have joined the expedition as members of the **Youth at Sea** socio-educational program, by pair or in group of 5/7, some of aged 14 and for up to 2 months. More than 60 passengers shared the experience from one to several weeks on board.

### 10 cartoonists « in residence » on board *Fleur de Passion*

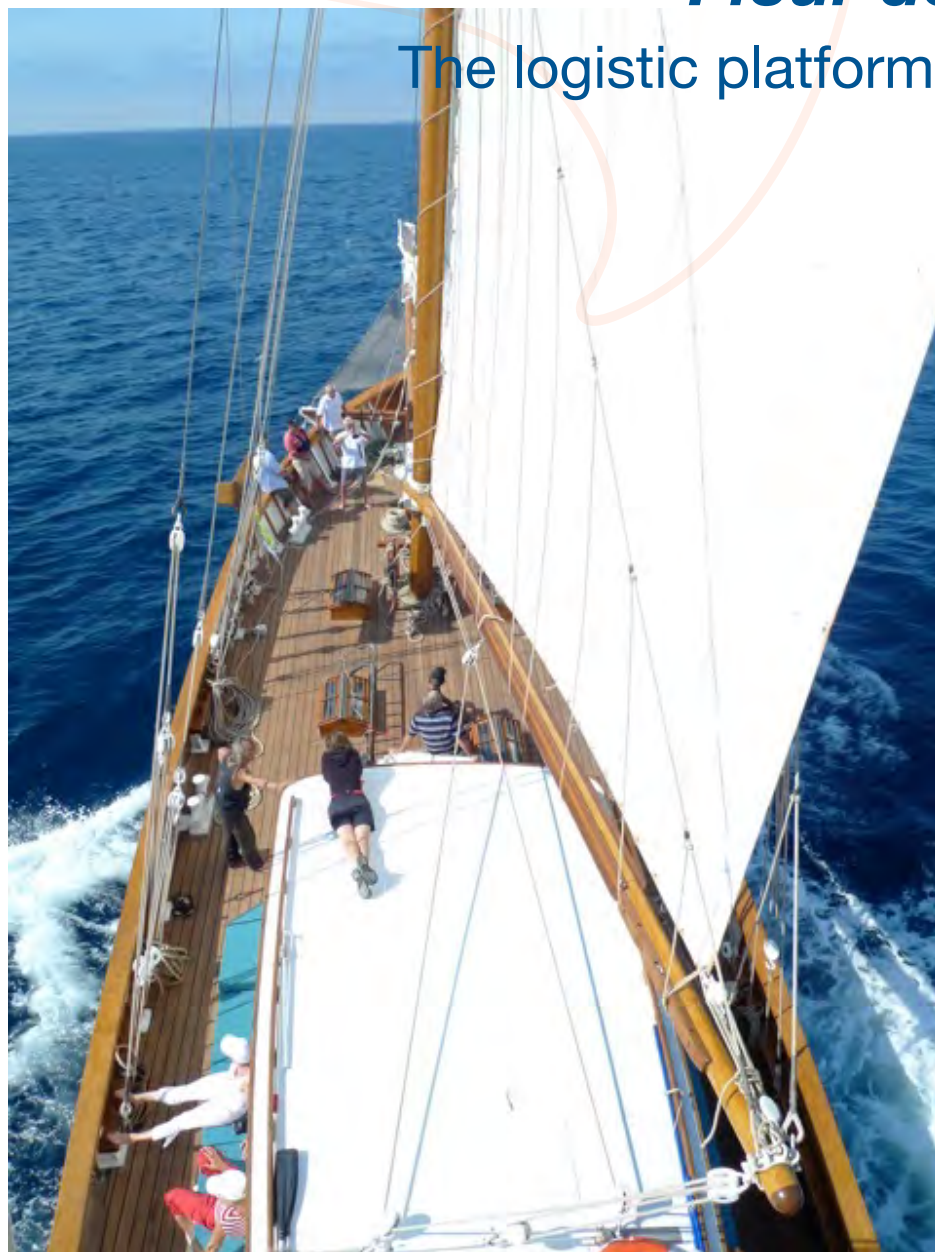
- **The first 8 cartoonists of the cultural program *In the Mirror of Magellan*** have shared their impression of the expedition, available on the website: Zep, Matthieu Berthod, Tom Tirabosco, Pierre Wazem, Peggy Adam, Isabelle Pralong, Ambroise Héritier, Pierre Baumgart, Alex Baladi and Mirjana Farkas.

Over 1500 school children and students have visited the boat and learned about the expedition and its scientific programs



# ***Fleur de Passion***

The logistic platform with a stunning history



**FLAG :** Switzerland

**HULL AND DECK :**

Overall length : 33 m

Length of the hull: 24 m

Maximum width : 6,10 m

Draught : 3 m

Structure : steel

Hull : oak

Deck's surface : 120 m<sup>2</sup>

Total weight : 100 tons

**GRÉEMENT :**

Rigging : ketch

Sails surface : 380 m<sup>2</sup>

Main mast : 24 m

Mizen mast : 17 m

Bowsprit : 8 m

**CREW :**

1 skipper

1 bosco

1 mechanic

1 intendant

## **Facts & Figures**



**CAPACITY :**

(not including crew) :

8-10 people

30 people for a day trip

**ACCOMODATION :**

5 double cabins

1 dormitory for 4 people



Life and work on board (up left to right).

The 33m long *Fleur de Passion* is the tallest sailboat under Swiss flag.

Since it was entirely renovated in 2009, *Fleur de Passion* has navigated in Mediterranean Sea, Atlantic, Red and Baltic Sea, as well as in the Caribbean Sea.

Over 1'700 people have sailed on *Fleur de Passion* since 2009.





## The Boat That Would Float

### *Fleur de Passion* before *Fleur de Passion*

**1941** : Built in Bremen, northern Germany. The future *FLEUR DE PASSION* is a motor boat of the German Navy, designed in such a way that she can be converted into a sailing boat in the event of an oil shortage. With her steel structure and wooden hull, she is largely used for mining and demining, support of U-Boats and clandestine activities, passing as a fishing boat.



**1945** : Having survived World War II, she is handed over to the French Navy, which she serves for some 30 years.

**1976** : The boat is dismantled and sold to a French sailor, who transforms her into a sailing boat and names her *FLEUR DE PASSION*, inspired by *The Boat That Wouldn't Float*, a novel by Canadian author Farley Mowat. Over the next 20 years, she sails the Mediterranean and crosses the Atlantic as a platform for scientific and socio-educational programmes.



## Over 6 years of renovation The Pacifique years

**2002** : In serious disrepair, for lack of financial resources, *Fleur de Passion* is sold to the Geneva-based Association Pacifique, a non-profit organisation that undertakes her complete renovation.

**2003** : Renovation gets underway in Marseille.

**2007** : *Fleur de Passion* becomes the flagship of the newly-created Antinea Foundation, a Swiss-based non-profit organisation dedicated to protection of the oceans, that will become the Fondation Pacifique in 2014.

**2009** : After six years of impressive renovation work, a new spring awaits *Fleur de Passion*. She is launched in Marseille in the presence of Albert Falco, former Head of Expedition of the *Calypso*; and the first season of scientific, socio-educational and environmental awareness-raising navigations starts in the Mediterranean, in the framework of the *Changing Oceans Expedition*, in partnership with the IUCN and under the high patronage of UNESCO.



# The Fondation Pacifique

## Bridging the oceans and the wider public

The Fondation Pacifique is a non-profit organization, based in Geneva where it was created in 2007. It was born out of the desire of its founders to play an innovative role in the way in which environmental as well as socio-educational questions were addressed, namely in a multidisciplinary, open way, based on partnerships and participation of the public at large, be they experts or interested individuals, young or old, welcoming all to take part in the activities aboard its sailboat and flagship, *Fleur de Passion*.

Since 2009, The Fondation Pacifique has been conceiving, organizing and implementing thematic expeditions mixing scientific, socio-educational and cultural programs. Its ambition is to contribute to a better understanding of the human impact on the oceans in order to rise awareness about the necessity to better protect the environnement.

### Board members:



**Pietro Godenzi**  
President  
Founding member  
Skipper



**Samuel Gardaz**  
Vice-President  
Founding member  
Corporate Affairs



**Markus Kessler**  
Founding member  
Treasurer



**Pascal Sottas**  
Founding member



**Marie Monteau**  
Founding member



**Daniel Chambaz**



**Vincent Maître**

## 2009-2014: 6 seasons of navigation

**2009** – First season of scientific, socio-educational and environmental awareness-raising navigations in the Mediterranean, in the framework of the *Changing Oceans* expedition ([www.changingoceans.org](http://www.changingoceans.org)), in partnership with the IUCN and under the high patronage of UNESCO.

**2010** – Navigation season in the Mediterranean, Atlantic, North Sea and Baltic Sea:

- Mission in Morocco on the human impact on the oceans, in partnership with North American biologist Ben Halpern of the University of California in Santa Barbara
- Observation and readings in different marine protected areas
- Mission on the human impact on the oceans, in partnership with the Oceanographic Museum of Kiel, Germany
- Mission in the south of England on invasive species, in partnership with Bangor University of Wales
- Socio-educational projects and school-classes on board

**2011** – Navigation season in the Mediterranean and Red Sea:

- Mission with the Oceanographic Museum of Straslund, Germany
- Mission on the human impact on the oceans, in partnership with Ben Halpern's team of scientists
- 3D modeling mission
- *Fleur de Passion* officially recognized as a platform and space for socio-educational and reinsertion projects by Genevan authorities.

**2012** – Navigation season in the Mediterranean and Atlantic:

- Environmental awareness-raising campaign in Morocco
- Environmental awareness-raising project: *In search of the 6<sup>th</sup> Continent*
- Socio-educational and reinsertion navigations

**2013** – Navigation season in the Mediterranean and Atlantic, and transatlantic crossing at the end of the year from the Canaries and Cap Verde

- Mission on the human impact on the oceans in Dakar, Senegal, with the local NGO Oceanium
- Socio-educational and reinsertion navigations

**2014** – Transatlantic crossing, navigations in the Caribbean (Guadeloupe, Haiti, Bahamas), return across the Atlantic to Morocco, followed by navigations in the Mediterranean



# The Ocean Mapping Expedition

in partnership with



With the support of





### **Fondation Pacifique**

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[www.fondationpacifique.ch](http://www.fondationpacifique.ch)  
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