

Annual Report
2018

Fondation
tara océan
explore and share



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The Tara Ocean Foundation in brief

Introduction

Recognized as a Public Interest Group dedicated to the Ocean, the Tara Ocean Foundation supports French scientific research on the impact of global warming and changes on marine ecosystems. Based on its expertise, the Foundation raises public awareness of environmental issues, and disseminates data and findings resulting from ocean research for educational purposes.

The Foundation also helps developing countries access this new knowledge. As UN Special Observer since 2015, the Tara Ocean Foundation actively participates in the UN 2030 Agenda for Sustainable Development and negotiations on high seas, biodiversity and climate.

A true floating laboratory, the schooner Tara has already traveled more than 450,000 kilometers, making ports of call in more than 60 countries during 11 major expeditions conducted in collaboration with international organizations and laboratories of excellence (CNRS, CEA, PSL, EMBL, MIT, NASA, etc.).



Our major expeditions

tara
ARCTIC
2006-2008

- **TARA ARCTIC (2006-2008)**
Arctic drift conducted 113 years after that of Nansen in 1893

TARA
OCEANS

- **TARA OCEANS (2009-2013)** :
First global study of the planktonic ecosystem

TARA
MÉDITERRANÉE
EXPEDITION 2014

- **TARA MÉDITERRANÉAN (2014)** :
A study of the impact of plastic pollution on marine ecosystems

tara
PACIFIC

- **TARA PACIFIC (2016-2018)** :
A study of coral reefs' ability to adapt to climate change

Key numbers

- **11** expeditions.
- **100,000** microscopic marine species discovered.
- More than **150 million** genes discovered in the marine world.
- About **200,000** viruses characterized.
- **450,000** km sailed across the world's oceans.
- Permanently on board : 7 scientists, 6 sailors, 1 artist and 1 correspondent.
- More than **150,000** samples collected.
- More than **120** scientific publications, including **8** in the leading journals Nature, Science and Cell.
- **60,000** children visited Tara in France and around the world.
- **130,000** children made aware of environmental issues through educational programs.
- **2** million visitors of Tara's exhibitions since 2004.
- An annual budget of **2.9 million** euros.



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Editorial

Etienne Bourgois, president and co-founder.
Romain Troublé, executive director.



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2018 started with a bang on the science side: in January, the researchers analyzing the 60,000 samples of the 2009-2013 Tara Oceans expedition published new findings in the journal Nature. Among these discoveries was the identification of 110 million new genes from the planktonic world. The genes were disclosed all at once and made available to the international scientific community. This new research effort thus complemented the approximately 40 million bacterial genes discovered in 2015 following the Tara Oceans expedition and published in the journal Science.

In 2018, the schooner also completed half a circumnavigation of the globe, from Southeast Asia to her home port in Lorient (France), thus ending the Tara Pacific mission after sailing nearly 60,000 nautical miles and collecting 60,000 samples of plankton and coral, brought back in her holds. Coral, so important for biodiversity, is the only organism showing in a few hours the bleaching effect of global warming.

The two months spent in China were extremely informative. We made many enriching encounters and raised awareness of global issues among the general public.

Nowadays, long-term scientific expeditions are rare, even unique. For good reason: they still represent a human, technical, financial, scientific and administrative feat. This last point in particular needs to be emphasized because of strong geopolitical and administrative constraints. The future looks even more challenging, at a time when we need, more than ever, to understand coastal and marine ecosystems and describe how they will evolve

in the context of increasing human pressure. It is also one of the Foundation's roles to assist UN negotiators.

Finally, 2018 was also a milestone for the educational program in France. The discipline of the Foundation's teams coupled with quality of educational materials and training, developed in partnership with the Ministry of National Education, bore fruit. The number of teachers and academies involved increased significantly. We have at heart to expand environmental education within France, the French-speaking world and far beyond our borders in the near future. The necessary transition requires the education of young people.

In our society focused on short-term results and in perpetual reaction, giving time to science and pedagogy wouldn't be possible without donors, private and public partners, and all the supporters of the Tara Ocean Foundation. We want to warmly thank them.

**Welcome aboard to share this wild adventure.
There's room.**



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Current situation of the Ocean in 2018

Between the decline in international mobilization regarding Ocean and Climate issues, start of negotiations on biodiversity management in the High Seas and raising concern about plastic pollution, discover our situational analysis of the Ocean in 2018.

1 – Governance of the High Seas

The first session of the Intergovernmental Conference dedicated to protection of the High Seas opened on September 3. Nations thus began negotiations with great ambitions, in particular to adopt a binding legal framework on the protection and use of biodiversity in international waters, based on concrete measures and regulations. The Foundation called for the definition of a framework for deep-sea research, but also and above all, the sharing of benefits arising from marine genetic resources. The schooner's stopover in New York during the Tara Pacific expedition coincided with the first session of the Conference, allowing us to invite a delegation on board.

2 – The Ocean on the margins of the Climate Convention's (UNFCCC) negotiations once again

While 2016 and 2017 were rather conducive to the emergence of solutions to Ocean and Climate issues, 2018 shows a sharp decline in terms of international ambitions. The COP24, held in Poland in December, resulted in «minimum service»: the Paris Agreement's specifications («rule book») were approved, but with a substantial lack of funding. The announcement of the upcoming COP25 in Chile – leading country on Ocean and Climate interactions – in December 2019, remains good news, especially with the «Because The Ocean» initiative, a key appointment for the Ocean community, newly provided with an IPCC Special Report on the Ocean.

3 – Sustainable Development Goals (SDGs) Sustainable development: What next?

It is now clear that the momentum induced by the COP21 wasn't followed by any concrete and meaningful result. CO2 emissions were first maintained, then allowed to rise. We also regret the lack of ambition in Brussels, including regarding the energy-related challenge at the European level. However, the Lisbon Conference focused on SDG 14, to be held in 2020, gives us cause to hope for the start of a concrete process.

4 – Key victories on plastic pollution

Citizens and consumers progressively became aware of this global issue, and nations' commitment increased. During the last G7 summit, the signatory countries to the new charter against ocean plastic pollution committed to recycle and reuse at least 55% of their plastic packaging by 2030. At a European level, the Commission presented in May drafted guidelines targeting the ten disposable plastic products most present on beaches and in European seas, as well as lost or abandoned fishing gear. Finally, French deputies voted on September 15 to ban disposable cutlery, glass covers, meal trays, ice cream containers, disposable bowls and boxes as of 2020. These new regulations involve cooperation between all stakeholders to find sustainable and innovative solutions to reduce plastic pollution at the source.

After some slowdowns recorded in 2018, it is more than ever essential to share our scientific expertise with policy makers in forums for dialogue at national, European and international levels. 2019 heralds new challenges that the Tara Ocean Foundation will share with you!



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Tara Pacific: First lessons and research perspectives.

After two-and-a-half years, the Tara Pacific expedition ended on October 27, 2018. We collected 60,000 samples and numerous physical and chemical data and made many observations. Late October, the last samples were sent to partner laboratories, in particular to the CEA to carry out gene sequencing analysis. The Tara Pacific database promises to be massive and research is just beginning.

The uniqueness of the Tara Pacific expedition is its «transversal» approach over a vast geographical area – in this case, the Pacific Ocean – hosting more than 40% of coral reefs on the planet. In the long term, this unique database intended for international laboratories brought together by the Tara Ocean Foundation will allow scientists to compare reefs and identify their resilience capabilities to climate and anthropogenic changes.

TARA PACIFIC in numbers:

- More than 100,000 km traveled
- 883 days at sea collecting a treasure trove of data
- 29 months of navigation
- More than 60,000 samples
- 70 stopovers in 30 countries
- 32 sites studied
- 2,677 dives
- 100 scientists involved

The Pacific Ocean between climate change and local threats : A coral patchwork.

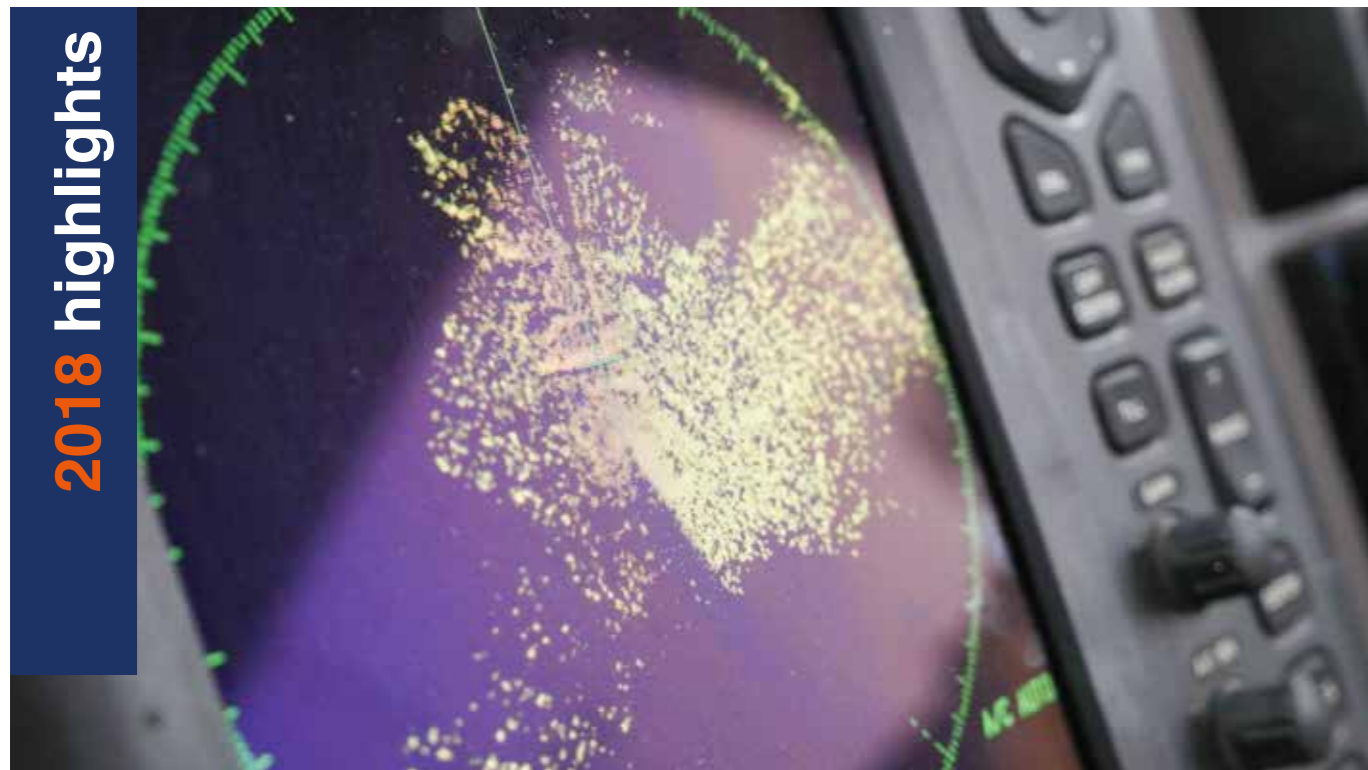
During the past year, the Tara Pacific expedition enabled laboratories, scientists and observers to draw first conclusions, even if this research will take time to be completed. Even though the following observations aren't exhaustive, they reflect main trends according to geographical areas, despite the wide disparity of reefs' health status.

The expedition studied very different coral ecosystems, confronted with various stress factors and impacted by local and/or global anthropogenic pressures. If some sites are subject to direct and local disturbances, such as fishing, pollution and urbanization, others are located far away from sources of anthropogenic pollution. However, all sites are potentially subject to global warming and ocean acidification (caused by CO2 emissions).

The Tara Pacific data will allow scientists to determine which factors support coral resilience. They will help identify optimal conditions for coral survival, based on environmental and biological parameters associated with coral and its microbiota (viruses, bacteria, etc.). In the coming decades, some species, today abundant, will be less represented than others.

Research hypotheses only confirm the Tara Pacific's initial observations: the species currently abundant are those growing under ideal conditions. This suggests that profound changes will affect coral reefs in the next two decades, and subsequently the entire food chain and associated ecosystems.

The Tara Pacific data offer a unique opportunity to dissociate the effects of local disruptions (pollution, urbanization, sedimentation due to soil erosion) from the impact of global changes (global warming, ocean acidification) and assess the health status of coral populations subject to both types of disturbances.



Tara Pacific's contributions and future research : A comprehensive approach to global issues

Climate change, erosion of biodiversity, migration of species, Tara's expeditions seek to provide answers to global issues. A global approach and unique data collected at an unprecedented scale: this is what characterizes the Tara Pacific expedition.

From research to coral reef preservation

High-level scientific expertise in genomics, microscopy and biology developed in collaboration with the Foundation's partner laboratories, will inform tomorrow's environmental policies. The more scientists understand about reefs' resilience mechanisms, the better they can advise policy and economic decision makers, as well as stakeholders working on reef preservation and restoration. Data analysis will allow scientists to determine which anthropogenic activities affect coral the most and which factors have led to a considerable reduction in coral distribution in specific geographical areas. These data are invaluable for coastal management, allowing sustainable urbanization and effective protection of marine habitats.

From coral to human health

Coral offers a particularly interesting field of research for studying aging and age-related pathologies. In many organisms, including humans, chromosome ends (telomeres) play a key role in aging.

However, their role in reefs' adaptation capacity and extreme longevity are still unknown. Researchers will investigate telomeric variations in coral to understand whether they are linked to environmental changes. Do they depend on the richness of biodiversity observed in the marine ecosystem or on its "microbial universe" (microbiota)?

This research will also investigate new biological mechanisms controlling stress tolerance and hopefully, in the future, scientists will be able to translate them into human medicine.

Highlights of the Foundation's various programs

Pollution program - Plastics at sea

Towards a new indicator of the impact of plastics on marine ecosystems.

Since 2018, the research program dedicated to plastic pollution, launched in 2010, has included the study coordinated by Maria Luiza Pedrotti (Laboratoire Océanographique de Villefranche-sur-Mer, LOV), within the Great Pacific Garbage Patch – also known as the North Pacific vortex.

The use of plastics has increased twenty-fold during the past half century and may double within 20 years. Large quantities of waste increase the risk of ingestion by a wide range of marine organisms, causing damage to marine species. It is therefore important to study the potential for microplastic ingestion, including microplastic/zooplankton ratio.

In 2018, the schooner allowed scientists to study the teeming life of algae, insects and bacteria within the North Pacific Ocean gyre, as well as the concentrated plastic pollution where new plastic-biological balances are developing.

- Identification of species associated with plastics will allow us to determine biogeographic zones of colonization and better understand the potential dispersion of organisms.
- Ultimately, the study will provide an indicator of the effect of plastics on coastal and marine ecosystems, to be integrated into future measuring and monitoring programs.

Biodiversity program – Coral

Local warming and stress factors: Double jeopardy for coral

Thanks to the huge effort provided during the Tara Pacific expedition, the first high point of the research program on coral biodiversity was a publication in the journal *Marine Pollution Bulletin*. This study – primarily conducted by researchers from the CNRS, CEA and King Abdullah University of Science and Technology (KAUST) – dealt with Samoa's reefs that the researchers found in situ to be in very poor health. As a result, they decided to carry out a more exhaustive study than initially planned on 124 sites around Upolu, thus covering more than 80 km of coastline.

This publication does not augur well for coral: massive deterioration of reefs due to 1) global warming and emphasized by the traditional climatic event, El Niño, from 2015 to 2017, thus resulting in increased coral bleaching, and 2) local human activities amplifying the impact of climate change.

Biodiversity program – Plankton

Modeling the planktonic ecosystem on a planetary scale

On September 12, at the French Academy of Sciences, a major milestone in oceanic research was initiated. After 10 years of studying ocean life aboard the schooner Tara and in partner laboratories around the world, the very ambitious Global Ocean System Ecology & Evolution program (GO-SEE) was launched.

This is a new odyssey. This program aims at discovering the structure and dynamics of the planktonic ecosystem on large spatial and temporal scales, taking into account the various species (taxonomic approach). For the first time, this integral approach will allow us to model on a planetary scale the actual biological complexity of this ecosystem.

This brings together 12 scientific disciplines and implements the latest technologies of plankton collection, DNA sequencing, automated imaging, bioinformatics,

and physics for a holistic study (biology, chemistry, physics) of the Ocean. This research initiates a crucial step to understand and model the Earth system. Hosted by the new Tara Oceans Federation for research (FR 2022), this ambitious multidisciplinary project will bring together 20 laboratories in France and worldwide to collaborate with the Tara Ocean Foundation, under the auspices of the CNRS, CEA, IRD, EMBL and 5 French universities.

Over the past decade, France has developed the technological and conceptual means to understand and model, for the

first time, a biome on a planetary scale. In this international adventure led by France, prominent laboratories in France (CNRS, CEA, PSL, SU, etc.), Europe (EMBL) and around the world have combined their ocean expertise. Recognized worldwide, our pioneering scientific, technological and conceptual advances have been published in the major scientific journals. GO-SEE marks a decisive step towards structuring a multidisciplinary approach to ecology, with the ambition to create in the future a European Research Center of Excellence in Global Ecology according to an ecosystemic approach.

Artificial intelligence applied to understanding Ocean and Climate interactions

The Tara Oceans expedition and its resulting data were valued in a report on artificial intelligence, commissioned by the French government and established by Cédric Villani, a French mathematician and deputy. The visibility of the Tara Oceans research program in this report promotes discovery potential in ecology and takes its cue from database exploitation. Newly available techniques of DNA sequencing and their use to explore the Ocean ecosystem, crucial for sustaining life on Earth, generate an unprecedented amount of data. These techniques will allow scientists to fathom the secrets of the marine ecosystem and better understand how it provides us with vital services, such as oxygen production or carbon sequestration. This program is aligned with the UN agenda regarding climate and biodiversity issues.

This "project in the crossroads of life sciences and ecology, [...] will use sequencing methods and high throughput automated imaging to assess and monitor biodiversity and ecosystemic services (e.g., water quality, impact studies, invasive and toxic species, fish stock management, key species, etc.) in the near future. The processing and modeling of these data will be performed using AI". These data "offer today the most complete description of ecosystems on a planetary scale. Standardized data layers, from genomes to satellite images, pictures of living organisms, and physical and chemical measurements constitute a single case study for the application and development of AI protocols, able to measure and model biodiversity and its interactions with biogeochemical cycles and climate."



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2018 scientific publications: Major breakthroughs in marine ecosystems

Éric Karsenti, scientific director of the Tara Oceans expedition, emeritus research director at CNRS and associate research director at EMBL, brought together a team of researchers around the schooner Tara and a common project: to study the plankton ecosystem in the context of climate change. He thus gathered scientists with complementary skills in marine biology and ecology, physical oceanography, cell and systems biology, genomics and imaging. For the first time, plankton -- the largest global ecosystem -- was collected worldwide and studied in its entirety: from viruses to bacteria, from genes to the whole plankton community.

The resulting data changed our understanding of the marine ecosystem and led to many scientific publications in internationally recognized, peer-reviewed journals.

Publications 2018

R. Morard *et al.*, Surface ocean metabarcoding confirms limited diversity in planktonic foraminifera but reveals unknown hyper-abundant lineages. *Sci. Rep.* **8**, 2539 (2018).

Q. Carradec *et al.*, A global oceans atlas of eukaryotic genes. *Nat. Commun.* **9** (2018), doi:10.1038/s41467-017-02342-1.

Y. Seeleuthner *et al.*, Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. *Nat. Commun.* **9**, 310 (2018).

P. Tréguer *et al.*, Influence of diatom diversity on the ocean biological carbon pump. *Nat. Geosci.* **11**, 27–37 (2018).

T. Yoshida *et al.*, Locality and diel cycling of viral production re-

vealed by a 24 h time course cross-omics analysis in a coastal region of Japan. *ISME J.* (2018).

F. J. Vincent *et al.*, The epibiotic life of the cosmopolitan diatom *Fragilariopsis doliolus* on heterotrophic ciliates in the open ocean. *ISME J.* (2018), doi:10.1038/s41396-017-0029-1.

O. Flegontova *et al.*, Neobodonids are dominant kinetoplastids in the global ocean. *Environ. Microbiol.* **20**, 878-889 (2018).

T. Grébert *et al.*, Light color acclimation is a key process in the global ocean distribution of *Synechococcus cyanobacteria*. *Proc. Natl. Acad. Sci.* **115**, E2010–E2019 (2018).

K. R. Hendry *et al.*, Competition between Silicifiers and Non-silicifiers in the Past and Present Ocean and Its Evolutionary Impacts. *Front. Mar. Sci.* **5**, 1-21 (2018).

K. Leblanc *et al.*, Nanoplanktonic diatoms are globally overlooked but play a role in spring blooms and carbon export. *Nat. Commun.* **9**, 953 (2018).

T. Mihara *et al.*, Taxon richness of “Megaviridae” exceeds those of Bacteria and Archaea in the ocean. *Microbes Environ.* (2018).

R. Arrigoni, Uncovering hidden coral diversity: A new cryptic lobophylliid scleractinian from the Indian Ocean (2018).

E. Kazamia *et al.*, Endocytosis-mediated siderophore uptake as a strategy for Fe acquisition in diatoms. *Sci. Adv.* **4** (2018), doi:10.1126/sciadv.aar4536.



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E. Villar *et al.*, The Ocean Gene Atlas: exploring the biogeography of plankton genes online. *Nucleic Acids Res.* (2018), doi:10.1101/271882.

E. Ser-Giacomi *et al.*, Ubiquitous abundance distribution of non-dominant plankton across the world's ocean. *Nat. Ecol. Evol.* **2**, 1243-1249 (2018).

D. O. Obura, L. Bigot, F. Benzoni, Coral responses to a repeat bleaching event in Mayotte in 2010. *PeerJ.* **6**, e5305 (2018).

J. Decelle *et al.*, Worldwide occurrence and activity of the reef-building coral symbiont *Symbiodinium* in the open ocean. *Curr. Biol.* **28**, 3625-3633 (2018).

F. Benzoni *et al.*, Morphological and genetic divergence between Mediterranean and Caribbean populations of *Madra-*

cis pharensis (Heller 1868) (Scleractinia, Pocilloporidae): too much for one species? *Zootaxa.* **4471** (2018).

E. Lewitus, L. Bittner, S. Malviya, C. Bowler, H. Morlon, Clade-specific diversification dynamics of marine diatoms since the Jurassic. *Nat. Ecol. Evol.* **2**, 1715-1723 (2018).

F. M. Cornejo-Castillo *et al.*, UCYN-A3, a newly characterized open ocean sublineage of the symbiotic N₂-fixing cyanobacterium *Candidatus Atelocyanobacterium thalassa*. *Environ. Microbiol.* (2018), doi:10.1111/1462-2920.14429.

Y. Li *et al.*, Degenerate PCR Primers to Reveal the Diversity of Giant Viruses in Coastal Waters. *Viruses.* **10**, 496 (2018).



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Our stopovers

The schooner Tara continued her awareness raising and communication activities during stopovers in Asia and the USA in 2018, through events intended for the general public, schools, policy makers and partners.

Tara in Hong Kong (March 7-15, 2018)

The schooner Tara spent a nearly 10-day stopover in Hong Kong. A highly urbanized and densely populated environment, the archipelago is confronted with a major challenge: managing its waste. Sadly, here, plastics, polystyrene and waste water too often end up at sea and threaten to disrupt the marine ecosystem. The Taranauts have therefore made use of their stopover to participate in a beach clean-up operation, organized by the French community, before taking the pulse of Hong Kong's coral, further east, in Crescent Island.

Highlights of the stopover :

- On board interview with Dr. C. Not from the Hong Kong University regarding plastic pollution in Hong Kong
- Conference at the Hong Kong University with interventions of Chris Bowler and Roman Troublé.
- Conference at the French high school entitled «Plastics in the Ocean: consequences and perspectives», organized in the framework of the closing of the Greenweek. 200 students participated in this exchange.
- School and public visits (886 pupils and 640 people)
- Tara Pacific exhibition at the Maritime Museum: situated in the Museum Hall, the exhibition highlighted the Tara Ocean Foundation's commitment and the Tara Pacific expedition on 15 panels intended to be recycled. A tremendous amount of polystyrene and bulk plastic materials were collected. 559 people were mobilized and spread over 4 sites: the beaches of

Sai Kung, Lamma Island and those south of Lantau Island and south of Hong Kong Island.

Tara in Keelung, Taiwan (March 21-31, 2018)

The 4-day stopover in Keelung was punctuated by on board visits of primary school students in the morning and the general public in the afternoon.

- School and public visits (560 pupils and 1,000 people)
- Public lectures with scientists and sailors at the National Taiwan Ocean University (NTOU) (100 attendees)

Tara in Xiamen, China (April 2-10, 2018)

Tara continued her Chinese adventure in Xiamen, second stopover of the Tara Pacific expedition in China

- Sino-French symposium with 5 scientists of the Tara Oceans project (CNRS, ENS, UPMC)
- School visits and presentations in schools (600 pupils) and public visits (720 people)

Tara in Shanghai, China (April 15-28, 2018)

The entire crew was on deck during this 15-day stopover rich in encounters and events. Education, exchanges with scientists, meetings with partners :

Tara accomplished her missions on all fronts, the high point being an exhibition at the Power Station of Arts in partnership with the Cartier Foundation. In Shanghai, second-largest city in China where towers quickly rise from the ground, environmental challenges are on the agenda.



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- Press conference and media tour organized in collaboration with the Consulate of France.
- School and public visits (1,140 pupils and 360 people)
- Symposium «Learning from the wild»: 100 participants
- Photo exhibition and conferences at the Power Station of Art: 250,000 visitors.
- Events with our partners agnès b., L'Oréal, the Veolia Foundation and Consulate of France.

Tara then left China and sailed 750 nautical miles in five days to reach Japan. A year after her last visit, the schooner returned to the Land of the Rising Sun. Crew members and scientists shared with the general public the research conducted on Japanese reefs last year and on plastic pollution in the Ocean.

Tara in Mitoyo, Japan (May 4-8, 2018)

- School and public visits (375 pupils and 300 people)

Tara in Kobe, Japan (May 9-12, 2018)

- Public tours (240 people)
- Talk show with a pop-up store in Daimaru (250 people)

Tara in Tokyo, Japan (May 15-21, 2018)

- Public tours (240 people)
- Press conference and events with the Foundation's partners
- Conference «Challenges in coral reef conservation - the communication problem» at Tsukuba University (150 participants)
- Signing of a partnership agreement with Tsukuba University

Tara in Portland, USA (July 6-11, 2018)

After crossing the Pacific Ocean, the schooner Tara went to Portland (USA) to highlight a global issue: plastic pollution at sea. This visit was organized with one of our main partners, Billerudkorsnäs, who has been supporting the Tara Ocean Foundation since 2016.

- Press conference
- Public tours (over 300 people)
- Stand of the Tara Ocean Foundation at the Oregon Museum of Science and Industry (OMSI), in partnership with Billerudkorsnäs and the OMSI (exchanges with crew members and scientists, virtual reality video, etc.)
- Intervention of the Tara Ocean Foundation at the conference «Challenge 2018» B2B with our partner Billerudkorsnäs (100 participants) "Talk with a scientist" session for the general public with Dr. Maria Luiza Pedrotti, a CNRS researcher and Romain Troublé, executive director of the Tara Ocean Foundation (150 participants)



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Our stopovers

Tara in San Diego, USA (July 17-21, 2018)

After a week of navigation from Portland, Tara arrived in San Diego for a 3-day stopover. The schooner was docked in front of the Maritime Museum of San Diego, which houses one of the finest collections of historic vessels in the world.

- Public tours (150 people) performed in collaboration with the Maritime Museum of San Diego
- A workshop entitled "Workshop for Kids" inviting children to discover aboard Tara the invisible life in the Ocean (50 children)
- Plankton Planet Workshop: presentation of the new 2.0 participatory science program and sampling kit that will allow citizens to carry out solid geographic modeling of marine life in the future.

Tara in New York City, USA (September 19-24, 2018)

After crossing the Panama Canal and avoiding Hurricane Florence, Tara arrived in New York. A marina located at the southern tip of Manhattan provided a strategic basis



© Christine Garcia

to the schooner to receive various UN delegations, came to participate in negotiations on the Law of the Seas held at the UN headquarters. As during all stopovers, public and school visits were organized on Tara's deck to share with crew members.

Highlights of the stopover:

- Shooting of the documentary entitled «On behalf of the seas» for the television program 13H15 de France 2
- School and public visits (138 pupils and 240 people)
- Intervention of the Foundation at the «Challenge 2018» B2B conference organized by our partner BillerudKorsnäs in NYC (80 companies present)
- Events with partners (conferences and visits aboard Tara)

Tara in Boston, USA (September 25 - October 4, 2018)

Immersed in the teeming intellectual life of Harvard University, the Taranauts participated in numerous discussions and presented our ongoing scientific projects.

Highlights of the stopover:

- Press conference
- School and public visits (300 people)
- Intervention of Romain Troublé at the B2B Conference entitled "Sustainable Packaging Coalition (SPC)", organized by our partner BillerudKorsnäs (250 people)
- Cocktail organized by BillerudKorsnäs at the New England Aquarium and tours aboard Tara (200 visitors)
- Public conference at Harvard University: "Discovery in the Ocean, or the Future of Ocean Exploration, or The Origins of Life's Complexity" with Dr. Eric Karsenti, scientific director of the Tara Oceans expedition (200 participants).



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Tara in Lorient, France (October 27 - November 7, 2018)

After two-and-a-half years of navigation across the Pacific Ocean, the schooner Tara returned to Lorient (Brittany), her home port, on October 27. End of the Tara Pacific expedition which allowed us to explore, following an innovative approach and on an unprecedented geographic scale, the impact of anthropogenic pressures on coral reefs in the Pacific Ocean.

Highlights of this return:

- Press conference: a press trip was organized (25 journalists)
- Nearly 7,000 people were present to celebrate Tara's arrival
- School and public visits aboard the schooner following her return (700 pupils and 1,600 people)
- A space dedicated to the Tara Ocean Foundation with animations was set up on the esplanade and hosted over 2,000 people during the weekend:
 - Animation of a workshop on microplastics in the Ocean with the help of three Tara scientists (public/fa-

mily quizzes, games, handling of samples from the Pacific gyre, commonly known as the 7th continent)

- Océanopolis workshop on coral.
 - BLUE exhibition involving quizzes, organized with Disneynature.
 - Message wall dedicated to the Ocean.
 - Lectures and screening took place in the auditorium of the Cité de la Voile during the weekend
 - Conference on the Tara Ocean Foundation's advocacy on Ocean issues in the 21st century.
 - Screening of documentaries on the Tara Pacific expedition
 - An exhibition on the Tara Pacific expedition with illustrations by Christian Cailleaux, artist-in-residence aboard the schooner, was held at the Cité de la Voile.
 - In the same space was proposed a VR experience of a dive during the Tara Pacific mission.
- Throughout the expedition, a traveling exhibition was set up during each stopover, highlighting the key role of coral reefs and scientific protocols applied to study this ecosystem.



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Artists-in-residence: Defining our vision of the ocean

The Tara Ocean Foundation regularly invites artists-in-residence aboard the schooner. Their presence is an innovative way to raise public awareness about the environment and the issues concerning its preservation in the 21st century.

Artists-in-residence in 2018

Elsa Guillaume

Graphic artist, France
Winner of the COAL Award

A graduate of the Beaux-Arts in Paris, Elsa Guillaume won the 2015 COAL Oceans Prize, which led to her embarking aboard the schooner. She filled her travel diary with inspired drawings and watercolors.

«In my work, there's always been this attraction and influence of exploration stories. At the beginning I was mainly interested in mountains and glaciers, and then the first expeditions to the poles, with their intriguing black and white photos. My notebooks will serve as an information bank from which I will draw to realize 'Coral Cosmography', a vast underwater cartography.»

elsaguillaume.com/



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Christian Cailleaux

Illustrator of maritime life,
France

Illustrator and comic book author with long traveling experience, but above all, a passion for the idea of remoteness. Through stories of wanderings and far away places, he shares his particular discovery of navigation that goes back 10 years.

"In the middle of the ocean, I feel more alive! Traversed by somewhat esoteric feelings difficult to summarize, it's like being part of a whole, a great force, a mystery, which can be hostile and also gentle. This of course has a lot of influence on my drawing, especially since I am quite economical with features, seeking the «just» line. Attempting to draw a moving wave on paper then becomes a real challenge!"

christian.cailleaux.free.fr/

Maarten Stok

Professional musician and singer,
Netherlands

Whether it's biology of microorganisms or in his creative music, the ocean is a unifying factor which makes sense for the artist. Maarten grew up in contact with the North Sea, a source of inspiration that led to singing. The Tara experience was motivating and provided rich material for both his artistic activities and teaching — two wonderful tools to create a better world,



© Samuel Bollendorff / Tara Ocean Foundation

he says. Thanks to his experience aboard Tara, he will create new music and use it to raise public awareness. An album is planned for 2019.

facebook.com/public/Maarten-Stok

Samuel Bollendorff

Photojournalist

Embarking on the Tara Pacific expedition in August 2018, Samuel Bollendorff crossed the Great Pacific Garbage Patch, also known as the «Plastic Continent». This voyage was an opportunity for him to observe and photograph the plastic samples taken aboard Tara. His journalistic report was co-produced by Le Monde and is part of a survey for his exhibition Contaminations — «A tour of the world's zones contaminated by mankind in the 21st century. Our chemical, mining and nuclear industries leave legacies for generations to come — whole swaths of our planet are soiled».

«I went around the world in 2018. It only takes a few hours since the planet is small, fragile» In his exhibition «Contaminations: After Me the Flood» Bollendorff takes us traveling via photos to the 4 corners of the world.

samuel-bollendorff.com



© Noelle Pansiot / Tara Ocean Foundation

Share our missions with the widest public

Raise awareness of younger generations and the general public

Tara Pacific stopovers, the Tara Ocean Foundation also organizes exhibitions and events in France for young people and the general public. In 2018, 1,818 young people came to conferences and events (besides stopovers and forums). 652 adults were also present at the conferences or events. In partnership with the Mickey clubs, the Tara Ocean Foundation was also present on the beaches during the summer through the games produced by Disneynature (380,000 children concerned).

Our public events

• The International Festival of Adventure Film, La Rochelle (November)

Tara, the Archipelago of Kings, filmed during the Tara Pacific expedition by Pierre de Parscau, was screened in the selection for the prize of «Quai de l'aventure» (300 people).

• Terres d'Ailleurs festival

Screening of the film Tara, the Archipelago of the Kings, directed by Pierre de Parscau during the Tara Pacific expedition (500 people).

• Discover the world of the Ocean with Blue and Tara Ocean Foundation - (April)

the Tara Ocean Foundation teamed up with Disneynature to launch an event at BHV Marais (Paris) and share discoveries about the fascinating world of the ocean. (1,500 people).

• «24 Hours for the Ocean» (August)

24 hours devoted to the protection of the ocean and coastline. The movie Journey to the heart of the climate machine was presented by André Abreu to raise public awareness about Arctic issues.

• Tara — 10 years after the Arctic Drift (February)

Il y a 10 ans, la goélette Tara rentrait à Lorient après 507 jours 10 years ago, the schooner Tara returned to Lorient after 507 days drifting with the Arctic ice pack. An entire day of films, conferences, discussions and photographic exhibitions to share this incredible adventure and present the latest news from the Arctic.

• Diving Salon (January)

The Tara Ocean Foundation welcomed children and adults for a wide choice of activities:

Exhibition, Tara Pacific in the heart of the coral — fun workshops for young students to explain the effect of global warming, and an educational game on the theme of seafood consumption and sustainability (5,000 people).

• Vivatech Fair (May)

The Tara Ocean Foundation was present at the Google stand with virtual reality, graphic models and conferences on artificial intelligence.

Our exhibitions

Virtual reality

The Tara Ocean Foundation offers a unique experience in virtual reality (VR): «Tara in the heart of coral». Visitors embark aboard the schooner during the Tara Pacific expedition. A great opportunity to discover the spectacular world of coral reefs. The VR presentation is offered at each big public event.

Trocadero Aquarium (November)

To mark the passage of the schooner in Japan during the Tara Pacific mission, the Trocadero Aquarium proposed an exhibition with the artist Maki Okijima, artist-in-residence aboard Tara, as well as a photographic exhibition retracing the milestones in Japan.

City of the Sea - Cherbourg (October 2018 - June 2019)

Tara, discovering a new world: the Ocean — An immersive experience in the world of Tara expeditions. Installed in 5 shipping containers, this exhibition takes you aboard Tara's floating laboratory to discover the 4 major research programs initiated by the Tara Ocean Foundation. (10,000 visitors).

Lorient (July and August)

An exhibition set up at Fort du Loc'h (Lorient agglomeration) to announce the October return of Tara, including parts of the Tara Pacific exhibition, and a series of illustrations by Christian Cailleaux. (10,000 visitors).

Put the Ocean on the program of educational institutions

Going beyond raising awareness, the educational platform of the Tara Ocean Foundation accompanies teachers in implementing their teaching of science, with an approach to sustainable development. The year 2018 showed a sharp increase in the use of the resources proposed by the educational platform (free and open access) for scientific lessons and the realization of hands-on projects. This attests to the Foundation's growing reputation in the French-speaking educational community.

Education in a few figures:

- In 2018, nearly 17,550 students (in France and other countries) followed Tara throughout the school year - a 59% increase compared to 2017. Students approached environmental issues related to the Ocean through educational projects allowing them to communicate regularly with the boat and researchers.

- Throughout 2018: 781 teachers were trained to use the educational resources of the Tara Ocean Foundation by the Education team during institutional days in Metropolitan France, and via video workshops (a new, very effective formu-

la, especially for French high schools abroad). This represents a 160% increase in the number of participating teachers. d'augmentation des enseignants concernés en tout.

- The ever-increasing attendance of our free educational platform: 1,877 downloads (+13%) of educational files (coral, plastic waste, ocean and climate), 811 data set downloads from scientific missions (+47%) and 322 exhibition downloads.

- 25,000 children and teenagers watched documentaries in class on the missions of the Tara Ocean Foundation (3 times more than in 2017).

- Edition of 9 new laboratory notebooks, (i.e. 12 in all) to discover 12 scientific instruments, their history and use through activities. More than 6,000 notebooks ordered, and 1,213 downloads.

- National deployment of the operation Seeds of scientific reporters - Ocean and climate, which was piloted in Ile de France, with more than 300 teachers accompanying 3,500 students. Subjects included: Arctic melting, ocean acidification, carbon pumps, coral reefs, climate machine, marine resource migrations and climate refugees. The student work was finalized in 3-minute videos explaining the major challenges confronting the Ocean in the face of climate change. The students explain their laboratory experiences in expert interviews, and illustrate their videos with computer graphics and illustrations, showing true digital creativity.

- A series of 10 video-conferences followed by questions & answers with 10 researchers on 10 Ocean and Climate topics. Initiated in the fall for two age groups (7-12 and 12-15 years, or 20 sessions), the series was a great success with the participation of 11,000 young students.

A word from a teacher:

« Tara is science (discovering the underwater world with magical plankton) but also a dream in the eyes of the kids (the voyage, the oceans). The children (and their teacher) get attached to the boat! Since 2009, we've been exploring the same topics (plankton, pollution, etc.) but there's always something new, depending on the route. We are like the scientists: we don't know in advance what discoveries the expedition will bring us. Same attitude as the scientists too: the expedition encourages questioning. Tara is also a motivating support for interdisciplinary learning, a project that has real meaning. To quote the students: 'Can we do Tara today?' »



© Elyx aboard Tara, Maeva Bardey / Tara Ocean Foundation

A more targeted communication strategy

The general goals of the Foundation's communication are the dissemination of knowledge and scientific results, as well as popularization and raising awareness of issues involving the Ocean. During this year 2018, strategies were better adapted to our objectives. By developing innovative content, we were able to reach an ever-wider audience by sending more targeted messages.

Key campaigns in 2018

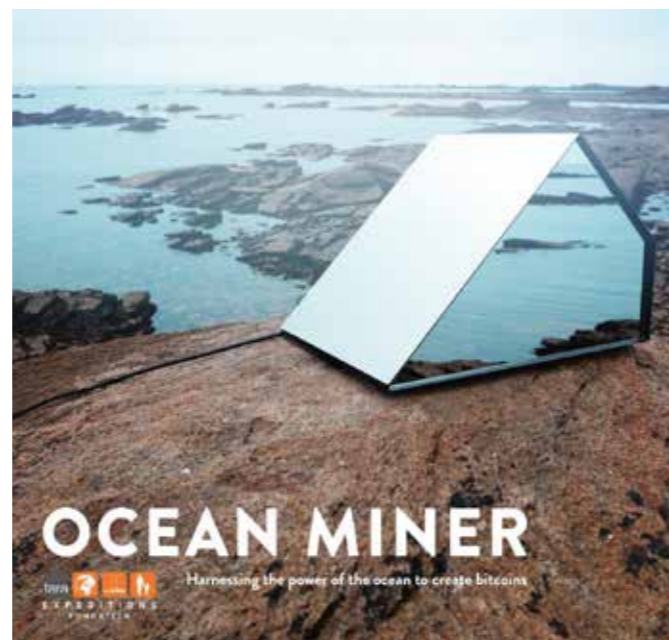
[April 2018] Ocean Miner

An innovative campaign to mobilize public attention around the challenges facing the Ocean

Digital and press campaign - video teasers - Format 2,06 ' Covering France, Europe, USA. 124 press releases.

The Fred & Farid agency designed an innovative campaign to raise awareness about the Ocean, and imagined a system of earning bitcoins from the electricity produced by a hydro turbine submerged at sea.

« This campaign generated excellent media spin-offs for the Foundation, and reminded us that only mobilization of everyone will help fund research to study, understand and better preserve the ocean tomorrow ».



© Maeva Bardey / Tara Ocean Foundation



[June 8] Plastic pollution : the solution will not come from cleaning up the ocean.

Digital campaign and press «World Ocean Day»

As Tara crossed the North Pacific Gyre where the concentration of plastic is among the world's most dense (the « Great Pacific Garbage Patch »), the Foundation took this opportunity to re-engage the public about the reality of plastic pollution at sea. Alongside the scientists, the Foundation attracted attention to microplastics - almost invisible and especially harmful pollution. At the heart of the «plastic continent», these particles, smaller than grains of rice, interact with a very large number of marine organisms and represent a potential danger (still poorly documented) for the entire marine food chain. From plankton to our plate. Our credo: the solutions are on land.



[27 October] The Return of Tara Pacific

Multimedia campaign - International - 339 press articles

home port, Lorient. This campaign, lasting 2 and a half years, addressed a very wide public and benefited from extensive media exposure in France. This major multimedia campaign is the Foundation's largest, with the most impact, in recent years (reaching 222 million people via press/media, and 750,000 people via our digital community). The campaign highlighted the fragility of marine biodiversity and the importance of exploring this extraordinarily rich heritage.



© Maeva Barody / Tara Ocean Foundation

Press coverage

Recalling just two high points of the press coverage in 2018, we naturally note the return of the Tara Pacific expedition, but also the first scientific publication from Tara Pacific about the devastated Samoan coral reefs.

Thanks to exceptional partnerships, especially with West-France, TF1, RFI and Hearst, the Foundation's projects received excellent press coverage. For example, the partnership with TF1 resulted in five TV broadcasts about Tara Pacific, also relayed on the web; an edition of the Sunday Supplement of West France, entirely dedicated to Tara; serial reports in Le-Monde.fr; Libération.fr and GEO (Germany, France) — all highlights of the media coverage concerning the Foundation. Such intense media attention contributes to the Foundation's notoriety, but is also essential for raising awareness among the general public.

Media partnerships



A two-and-a-half-year partnership began in 2016 with the 'Journal of 20H' on TF1 «Weekend edition». 12 reports were made aboard Tara, including 4 subjects in 2018 during Weekend news - Anne Claire Coudray - broadcast Friday and Sunday.

Sujets 2018 :Topics 2018:

- The Tara expedition to Hong Kong to fight against pollution in the seas.
- Oceans preservation: a dive to the seabed with Google and Tara Ocean.
- Tara Expedition : hundreds of dives in the Pacific to study corals.
- Scientific expedition : Tara returns after 30 months in the Pacific.

Podcast on

<https://www.lci.fr/sujet/l-expedition-tara/>



© Maeva Barody / Tara Ocean Foundation

Le Monde

Samuel Bollendorff and journalist Patricia Jolly - High media impact during June-July.



A series of 4 articles by Yann Chavance, scientific journalist aboard Tara, in July-August. Strong media impact.



The media partnership with the daily 'Ouest France' resulted in regular publications, notably in the 'Edition du Soir' (digital edition), as well as in the youth press DIMOITOU (digital edition). On the occasion of Tara's return, a supplement of 'Ouest France' dedicated to Tara and the Foundation's goals was distributed throughout the Morbihan region.



4 reports by correspondents aboard Tara were broadcast on «C'est pas du vent», environmental emission on RFI.

Link to our podcasts -

[https://oceans.taraexpeditions.org/mediatheque/podcasts /](https://oceans.taraexpeditions.org/mediatheque/podcasts/)



In Japan, several photo-reportages about Tara were published in the lifestyle magazines of the Hearst press group (Elle, 25 years old, etc.).



In the wake of Tara Pacific, Mickey's Journal continued publications on the theme of coral, plastic at sea and navigation aboard Tara. This partner was very involved and offered Tara high visibility with a Contest Game when the schooner returned to home port.



Coverage of the Tara Pacific expedition and regular publications on the digital platform with Zoom by Disney.

www.zoombydisneynature.com



On the occasion of the release of the movie BLUE on March 28, DisneyNature developed a powerful campaign to raise public awareness, in partnership with the Tara Ocean Foundation.

This involved important media coverage, with organized events and marketing around the movie's release. The Foundation added considerable scientific value to the basic message in favor of Ocean preservation. The launch of educational operations was given large-format promotion, notably the publication of the booklet BLUE.



In 2018 the Foundation was offered a double page each month on the major issues concerning oceanographic research and environmental problems. This monthly magazine is dedicated to providing individuals with legal information.

2018 highlights



© Meave Barby / Tara Ocean Foundation

Media coverage

In 2018, in the printed and digital media, 1,525 articles appeared. According to the Data Observer Agency's 2018 report, the following trends can be noted :

Volume

Excellent media coverage for Tara, totaling 1,525 articles over an 18-month period. A volume certainly smaller than the last period analyzed, but of much better quality.

News highlights

News was well-distributed over the whole period analyzed, with certain peaks observed on the timeline -notably Tara's return at the end of 2018, or the release of Disney's movie, BLUE.

Internet domination

The web dominates with 85% of the total coverage. This brings to the Foundation a web audience of nearly 500 million potential contacts.

The regional press dominates

Once again the regional press dominates news coverage of the Foundation over this period, with 40% of the citations.

More active partners

A presence of our partners that tripled compared to 2016-2017, with the CNRS heading the list, and many scientific references.

Newspaper press slightly down

with 14% of the overall volume of citations. There are 145,157,965 potential contacts.

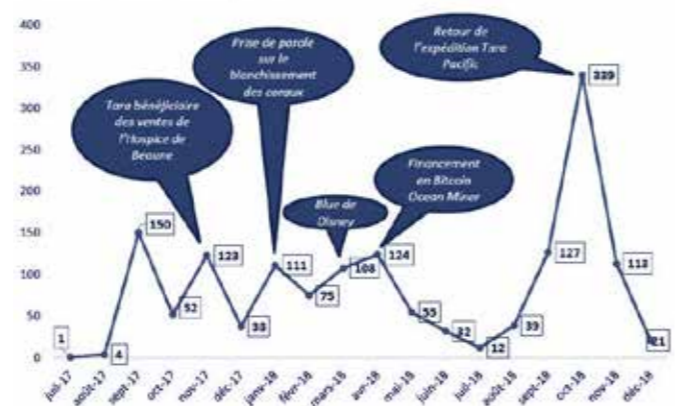
Excellent media visibility

With a media exposure index of 8.9, the Foundation has very good visibility. Also helped by the number of sizable articles (80%) and a significant polarization of 69% (majority of articles referred mainly to Tara), media coverage is much more visible than in 2016-2017..

Key numbers

Média	Nb d'art.	Nb Art. Moyen / Mois	Surface	Surface Moyenne / Art.	EAE	EAE Moyen / Art.	Reach	Reach Moyen / Art.
Web	1 299	72	1 762,58	1,37	6 485 230 €	4 592 €	493 684 486	380 050
Print	209	12	163,52	0,78	3 198 705 €	15 305 €	145 157 905	694 536
Radio	12	0,7	8 018 s	568 s	790 700 €	65 892 €	10 928 800	910 733
Tv	5	0,3	480 s	96 s	446 850 €	89 370 €	19 743 000	3 948 600
Total	1 525	85	1 946,10	1,29	10 923 546 €	7 162 €	640 514 251	430 026

The 2018 media flow



Press Releases, 2018.

Ten press releases rhythmmed the year, affording visibility and therefore greater commitment of the online community. Among them, 8 key subjects:



© Tara Ocean Foundation

• **25/01/2018** - Tara Oceans: discovery of over 100 million genes from the marine world (results published in the journal Nature).

• **16/04/2018** - The Tara Ocean Foundation innovates with «Ocean Miner » : an unprecedented system to generate Bitcoins and finance ocean research.

• **26/04/2018** Climate change and local practices : double jeopardy for a coral reef.

• **08/06/2018** - Plastics at sea: the solution will not come from cleaning up the ocean.

• **27/06/2018** - Auction for the benefit of the Tara Ocean Foundation at Artcurial.

• **26/09/2018** - Tara completes nearly 3 years of expedition on coral reefs in the Pacific.

• **27/10/2018** - Return of the Tara Pacific expedition : Unexpected findings on a patchwork of coral.

• **16/11/2018** - «All (or almost all) about coral»: Léa Camilleri-launches a new educational series on YouTube with the Tara Ocean Foundation and Océanopolis.

with Océanopolis and featuring Léa Camilleri, (YouTube use with 530,000 subscribers who spent a month on board with the sailors and scientists) totaled 11 835 views so far, with an excellent welcome (637 blue thumbs), also raised the adolescent public's awareness about the coral ecosystem.

A major qualitative leap in 2018 saw the LinkedIn network of the Foundation's community grow by 107%, thereby affirming its credibility with many partners. Thanks to innovative content, the use of influencers, 360°video, the Tara Ocean Foundation is reaching out to more and more young people on questions concerning science and the Ocean. The Foundation maintains its position as key player in the field of oceanography, with content based on scientific studies to raise awareness about ocean issues.

Audience website tararexpeditions.org

Users :	Newsletter FR :	Newletter Educ :
2016 : 142 932	2016 : 20 600	2016 : 3383
2017 : 162 840	2017 : 21 013	2017 : 4580
2018 : 240 021 (+ 47 %)	2018 : 22 633 (+ 8 %)	2018 : 5 993 (+ 31 %)

Viewed pages : Newsletter EN :

2016 : 711 271	2016 : 1900
2017 : 911 544	2017 : 2062
2018 : 841 000 (- 8 %)	2018 : 3 306 (+ 60 %)

Digital communication

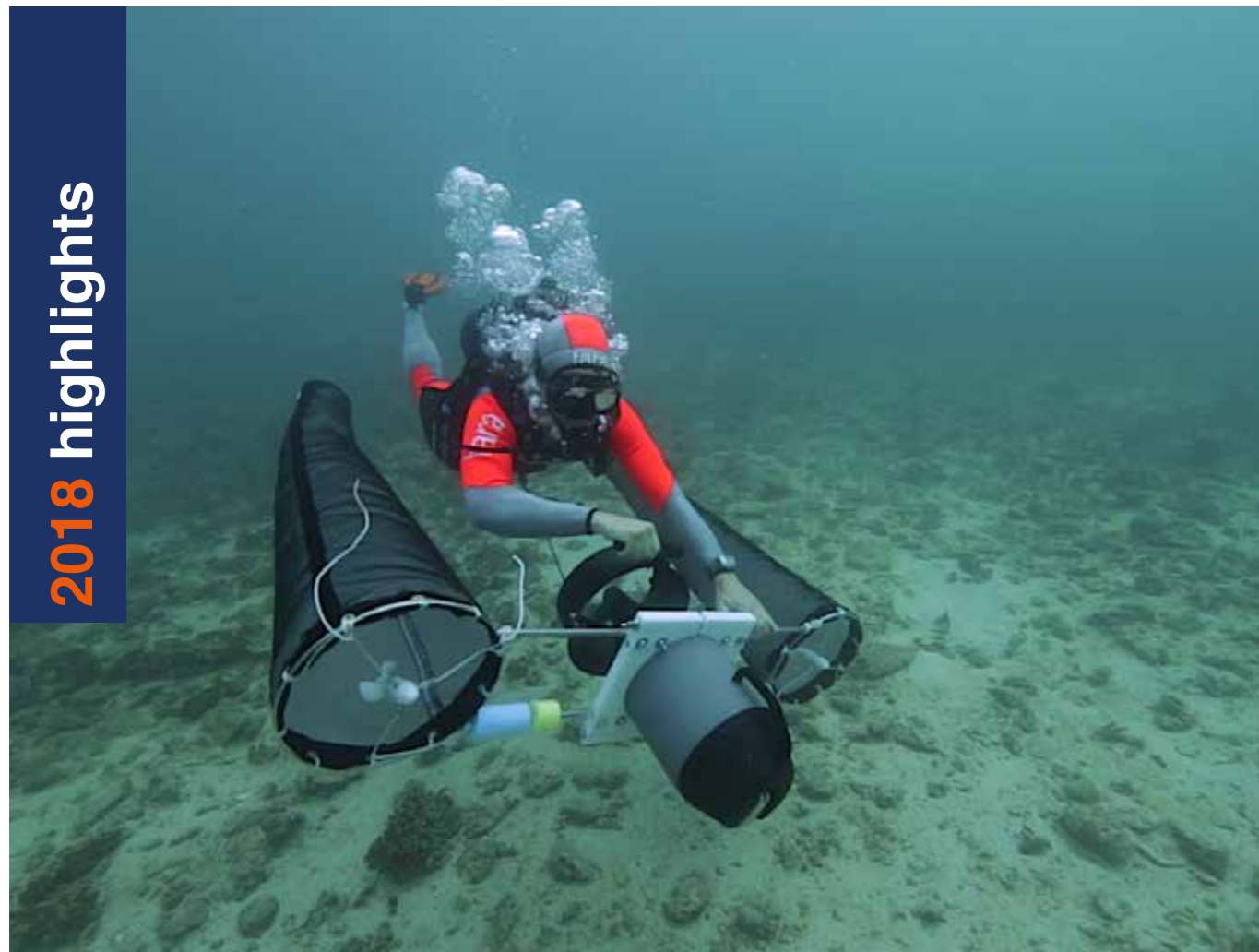
Among the highlights of 2018, the schooner's return on October 27 significantly increased our visibility and the community's engagement on our web platform, fondationtaraocean.org and on the social networks. **Our website registered a 47% increase in the number of users compared to 2017.**

Throughout the year, in sync with Tara's stopovers, we developed an international strategy for our community, especially on our website. The French-speaking audience represented 45% in 2018, the remainder being English, Japanese, and Chinese. The Foundation's monthly English newsletter saw its mailing list more than double in one year (2017-2018).

The originality of formats and contents and their engaging character (Instagram stories, a Facebook Live offering our subscribers a direct experience of the Tara Pacific expedition's return, virtual reality, 360° videos, a YouTube series, etc.) has attracted a younger audience (12-25 years), especially on Instagram and YouTube — two of the social media networks preferred by the young public. In 2018, Instagram was the 2nd social network of the Tara Ocean Foundation in terms of growth (+ 66%). At the end of 2018, on our YouTube channel, a series of six episodes, «All (or almost) about the coral», made in partnership

Social networks

	2016	2017	2018	
	80 044	83 794	86 684	+ 3 %
	27489	9193	10 947	+ 19 %
	4200	6002	9 970	+ 66 %
	N/A	1545	3 194	+ 107 %
	1108	1601	2 185	+ 36 %



© Tara Ocean Foundation

Documentaries

Tara - In the heart of coral

First experience in virtual reality produced aboard Tara

Co-produced by the Tara Ocean Foundation and OceanView

Directed by : Jean-Marc Moro, Pascal Tirilly
 Script : Jean-Marc Moro, Pascal Tirilly
 Editing : Pascal Tirilly
 Captures 360 : Jean-Marc Moro

Kimbe Bay, Papua New Guinea, November 2017. The Tara Pacific expedition stops in this heavenly bay designated as the «cradle of coral». For 11 days, Tara's sailors and scientific team explore coral reefs and their fragile treasures under the gaze of Jean Marc Moro, underwater filmmaker, specialist in 360° capture. On board Tara and under the surface, his images let us discover a threatened coral ecosystem, and bear witness to the challenge that researchers are trying to win: to understand how the Ocean is adapting to global warming — or not. A future in which we all share responsibility.

2018 Broadcasts

- MK2 Paris - Broadcast at the international premiere of the movie BLUE - Disney Nature, including use of the digital platform LCI.fr Shanghai Power Station of Art (PSA) with the Cartier Foundation for Contemporary Art
- Tara, In the heart of the coral was selected at the festival SATIS Screen4all, Paris, autumn 2018.

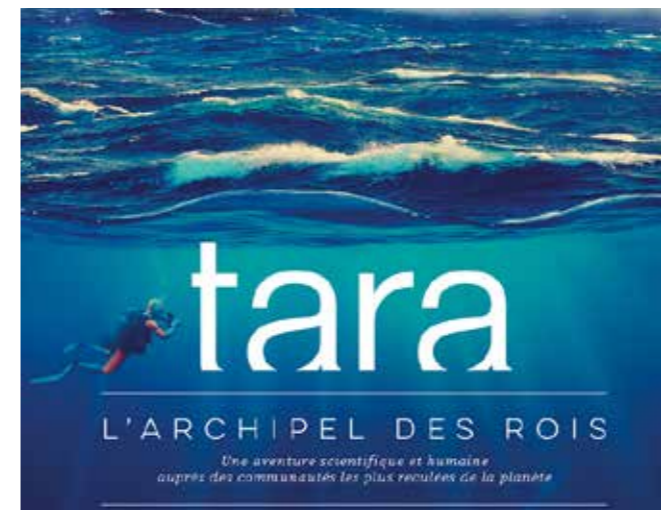


Tara - The odyssey of coral

Through this human and scientific adventure, Tara revives the spirit of the great explorers of the past and reconnects with the tradition of world discovery trips. This 52-minute film was written and directed by Pierre de Parscau in 2017, narrated by Jacques Gamblin, and produced by The Cup of Tea, the Tara Ocean Foundation and CNRS Images, with the participation of France Télévisions and the National Center for Cinematography.

Les présences en festival en 2018 :

- International Oceania Documentary Film Festival 2018
- European Festival of Underwater Images and the Environment of Strasbourg 2018
- Fishermen of the World Festival in Lorient 2018
- International Festival of Maritime, Exploration and Environmental Films in Toulon 2018
- Festival of the Sea, Corsica 2018
- Noirmoutier Science Festival, 2018
- Lumexplore Festival, 2018



Tara - The archipelago of kings

After investigating the corals of French Polynesia and the South Pacific, the Tara Pacific expedition reaches the archipelago of Wallis and Futuna. Aboard the schooner Tara, the scientific crew starts an unprecedented survey of this archipelago whose fauna and flora are visually unknown. A meeting between island communities and a treasure to be discovered.

A 52-minute film, written and directed by Pierre de Parscau in 2017, narrated by Jacques Gamblin, produced by the Cup of Tea, co-produced with the Tara Expeditions Foundation, with the participation of France Télévisions and the CNC.

Festivals 2018:

- FIFAV La Rochelle 2018,
- International Underwater Film festival Belgrade 2018



TV show «In the Name of the Seas»

On France 2, 13:15 on Sunday
 First broadcast on December 2, 2018
 A 45-minute report by Emmanuelle Chartoire, Julien Voigt, and Fanny Martino, presented by Laurent Delahousse.

This 45' broadcast at prime time retraces all of the Tara Ocean Foundation's missions. Pacific reefs where scientists put plankton nets in the water. Stopovers to share the adventure and learn about the Ocean. We follow Tara to New York, during the UN negotiations on the status of the High Sea. In the second program of the series « Fragile Planet », the France 2 (13H15) production team followed passionate researchers, specialists in the microscopic life of the Ocean. Aboard the research ship Tara, we meet Coloman de Vargas, CNRS researcher, specialist in plankton. The voyage continues in the Mediterranean with François Galgani, researcher at IFREMER and specialist in microplastics. We accompany him on an exceptional mission to explore the deep vents. The images are alarming.

Lien :

<https://www.france.tv/france-2/13h15-le-dimanche/810139-planete-fragile-au-nom-des-mers.html>



© Meave Barty / Tara Ocean Foundation

Advocacy : Convincing political and economic decision makers to make the Ocean an environment preserved by all.

Outcome of the “Ocean Plankton, Climate & Development” project, financed by the French Facility for Global Environment (Fonds Français pour l’Environnement Mondial - FFEM).



This project, initiated by the Tara Ocean Foundation, helps enhance the scientific expertise of developing countries in

training young researchers (oceanographers, geneticists, and mathematicians from Brazil, Argentina, Togo, Chile and Senegal) in the framework of the Tara Ocean Foundation’s research programs. These new skills will allow developing countries to participate in ocean governance negotiations and emphasize the issues their regions are facing. This research contributes to the development of increasingly accurate scientific models to better observe marine biodiversity and predict its evolution and impact on resource management. 2018 was marked by working sessions bringing together young researchers conducting a joint study on ocean areas that contain little or no oxygen. These so-called «dead zones», still poorly known, are expanding as a result of global warming. It is therefore crucial to understand and predict the current and future response of the Ocean and the marine organisms it hosts to these changes. On September 10 and 11 at UNESCO headquarters in Paris, during a high-level scientific seminar organized in view of the UN Decade of Ocean Science for Sustainable Development, these young scientists presented their ongoing work to attending scientists and policy makers.

Bringing together European research institutions on Ocean observing systems .

Work meetings : Relationships have been developed since 2017, during a series of meetings in Brussels between European institutions, including the DG Research and the DG Mare.

© Ryan Mc Mirals / Tara Ocean Foundation



The Tara Ocean Foundation’s role was to coordinate the presence of researchers associated with the project in meetings and workshops and identify lobbying opportunities. The researchers attending these meetings were: Stéphane Pesant (University of Bremen, Germany), Guy Cochrane (EMBL-EBI, UK) and Daniele Ludicone (Stazione Zoologica Anton Dohrn, Italy)

Advocacy work in Brussels was mainly conducted with the following institutions:

- European Commission, DG Research
- European Commission, DG Mare
- COPERNICUS Program
- EurOBIS Program (UNESCO/IOC), based in Ostend (Belgium)
- CLORA, cluster of French research organizations in Brussels (Belgium)

“All Atlantic” Program : The launch of the “All Atlantic» program by DG Research in July 2018 provided an opportunity to participate in a south-south dialog between South America and Africa — important for strengthening «capacity-building» aspects of the project. After several work meetings, the Foundation was invited to present the FFEM project at the program launch in Lisbon in July 2018, in the presence of the Portuguese, Brazilian and South African Research Ministers, as well as several directors and executives of the European Commission. Call for projects The “All Atlantic» program was identified as a great opportunity to prepare a project focused on the South Atlantic Ocean (AtlantECO), involving all the post-doctoral students working on the project to prepare their smooth return to their countries of origin.

Advocacy on climate issues, in collaboration with the Ocean & Climate Platform and “Because the Ocean” initiative

The Tara Ocean Foundation’s advocacy team continued its collaborative work with the two initiatives created on the occasion of the COP21: the Ocean & Climate Platform, presided by Romain Troublé, executive director of the Tara Ocean Foundation, and «Because the Ocean» initiative. In 2018, the Platform participated in the COP24, held in Katowice (Poland), during which the implementation plan of the Paris Agreement (rule book) was approved. The conclusion of this key step in negotiations made way for a more structured accession of the Ocean to negotiations and Nationally Determined Contributions (NDCs) during the upcoming COP25, to be held in Chile in December 2019. To make concrete progress with the 38 signatory countries, the “Because the Ocean” coordinating committee proposed the development of regional workshops, the first of which was held in Chile in October 2018



© David Hamman / Tara Ocean Foundation

Coordination of a high-level scientific seminar organized in the framework of the UN Decade of Ocean Science for Sustainable Development (2021-2030)

In the framework of Ocean & Climate Platform (POC) presidency, the Tara Ocean Foundation co-organized a high-level scientific seminar in view of the UN Decade of Ocean Science for Sustainable Development. This decade is intended to implement a common program for research and technological innovation dedicated to the Ocean. The conference brought together about 500 participants, including government delegates, scientists and associations. One of the conference goals was to summarize recent scientific advances on the link between ocean and climate and reflect on ways to translate science into action over the course of the next decade. In his opening speech at the conference, Romain Troublé, executive director of the Tara Ocean Foundation, alongside Frédérique Vidal, French Minister for Higher Education, Research and Innovation, stressed the need to fill the scientific gaps in our knowledge about the Ocean. Through its actions, the Foundation promotes greater scientific cooperation between countries, funding of research programs on ocean and climate interactions and strengthening of science-policy links. These objectives are fully aligned with the future UN Decade of Ocean Science for Sustainable Development.

Development of the BeMed initiative on plastics in the Mediterranean Sea

During the Monaco Ocean Week (April 8-14), alongside other partners of the Beyond Plastic Med (BeMed) Initiative, the Tara Ocean Foundation participated in a meeting based on experience-sharing on plastic pollution with the winners of the call for micro-initiatives that BeMed has launched each year since 2016. Local projects implemented around the Mediterranean Sea (Spain, Italy, Albania, Morocco, Tunisia, etc.) were presented —, a variety of concrete actions taken by local populations to address this issue. Projects leaders also shared good practices, as well as their difficulties and needs to pursue their actions.

Creation of the BeMed Corporate Club

Since September 2018, the BeMed founding members (the Prince Albert II of Monaco Foundation, Tara Ocean Foundation, Surfrider, IUCN and Mava Foundation) have been working to create a corporate club focused on concrete solutions to stop the flow of plastics in the Mediterranean Sea. The Club, founded in the spring of 2019, will bring together actors in mass distribution, industry and services to the environment, alongside a scientific committee and the founding members.



© Noelle Pansiot / Tara Ocean Foundation

The Tara Ocean Foundation is an independent organization, operating thanks to the support of its partners and donors. Thanks to them, thanks to you, the Foundation actively pursues its mission and, in collaboration with renowned scientists, develops an innovative and unprecedented research on Ocean ecosystems. Thanks to its expertise, the Foundation rallies decision makers and raises environmental awareness among young people all over the world, encouraging them to take concrete actions in the face of global changes.

Our partners

New sponsor

ALTRAN In 2018, Altran joined the Tara Ocean Foundation's partners under a skills-based sponsorship agreement. Altran engineers assist the Foundation's teams on several projects: implementation of a CRM database, management of the Foundation's image database and setting up of a scientific project in the Arctic Ocean. Altran, world leader in engineering services and R&D, provides its customers with a unique value proposition to meet their transformation and innovation challenges. In France, Altran develops a skill-based sponsorship, designed to serve the general interest and aligned with its expertise around the following themes: culture, solidarity and innovation.

A gala dinner brings together a growing number of donors every year

On December 18, 2018, the annual gala dinner of the Tara Ocean Foundation took place at Unesco headquarters

On this occasion, 130 people gathered to support the Foundation. During this exceptional evening, many personalities intervened to highlight the importance of the Tara Ocean Foundation's action. Among them was Cédric Villani, winner of the 2010 Fields Medal, member of parliament for the Essonne department (France) and author of the report, «Giving Meaning to Artificial Intelligence». He spoke of the importance of the scientific research and environmental database implemented thanks to Tara's expeditions are, allowing scientists to model marine biodiversity and its interactions with climate. Edith Heard, a geneticist, winner of the 2017 Inserm Grand Prize and general director of EMBL (European Molecular Biology Laboratory), a long-standing partner of the Tara Ocean Foundation,

also pointed out the excellence of the research conducted by scientists associated with the Foundation. These speeches and the perspective of winning a journey aboard the schooner Tara sparked donors' enthusiasm and helped collect 73,000 €.

Our partners' testimonials

"The Brittany Region has supported the Tara Ocean Foundation since its creation. Associating Brittany with the schooner's name provides the region with an opportunity to recognize and illustrate the importance of the scientific work conducted on the challenges facing marine biodiversity. We also wish to underline the excellence of the Tara Ocean Foundation's research, and its link with regional issues and policies Brittany makes a commitment on climate. Tara is synonymous with major scientific expeditions (Arctic Ocean, Mediterranean Sea, Pacific Ocean) and dissemination of results among all audiences, in particular students. Tara is now launching initiatives on the issues of plastics at sea, that integrate naturally into public policies at the regional and European level. This is why we support Tara, whose home port is Lorient».

Bernard Poulinquen, vice-president for higher education, research and digital transition of the Brittany Region

«As I see it, the Tara Ocean Foundation is a model of solidarity and environmental commitment for the years to come. Its daily action doesn't exclude any vector of awareness and understanding of the challenges facing our planet. From scientists to artists-in-residence, Tara operates as a platform for exchange for the benefit of all people. Beyond the scientific research leading to major advances in understanding and preserving the Ocean, I can't forget the Foundation's poetic aspect. Throughout history, long-distance journeys have always represented new possibilities, the discovery of new lifestyles and places. In literature, they were the subject of countless fanta-

sies and adventures, and for painters they offered amazing horizons. For all these reasons, I am pleased to collaborate with the Tara Ocean Foundation and contribute, at our level, to this essential effort in solidarity: the preservation of life on Earth

Sébastien Ruiz, secretary general of the agnès b. endowment fund

The Tara Ocean Foundation warmly thanks its many sponsors and partners

MAJOR PARTNER
agnès b.

MISSION PARTNERS
Fondation VEOLIA, PRINCE ALBERT II OF MONACO FOUNDATION, BILLERUDKORSNÅS, OCEANS by Disney, World Courier

MAJOR SCIENTIFIC PARTNERS
CIRP, PSL, EMBL, ANR, OCEANONICS

MEDIA PARTNERS
QUEST FRANCE, HEARST, ZOOM, WICKREY

SOLIDARITY-MINDED PARTNERS
L'ORÉAL, BIOTHERM, 環境ステーション, SOUKANTERECO

INSTITUTIONAL SUPPORTS
LORIENT, ICRI

EDUCATION PARTNERS
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LICENSED SUPPLIERS: ARMATEURS DE FRANCE - ENTRE LES COULES - INTERNATIONAL PERFORME - GROUPE CYCLOSTATION - TROUBLE - NET HELIXON - LA BIA - SPORTS SPORTS - HILLA - JONAS - BODYPARTS - SKIN ASSOCIATIONS: OCEAN AMB ALLIANCE - MISTER GOOD FISH - SKIN - AREA - FONDATION GOODPLANET - MESSON BLEU - PARELY

Appeal to public generosity

Each donation matters and all financial contributions received from our donors, large and small, help finance the Tara Ocean Foundation's missions. In 2018, we continued our appeals through digital fundraising campaigns

Several campaigns were launched to support the Tara Ocean Foundation's missions. Each campaign was disseminated via e-mails and all the Foundation's social networks.



March 2018
Scientific research



March 2018
World Water Day



April 2018
Plastic pollution



December 2018
Year-end campaign

Auction at Artcurial for the benefit of the Tara Ocean Foundation

The Tara Ocean Foundation, in collaboration with agnès b. and the agnès b. endowment fund, organized a charity auction on June 27, 2018, in partnership with Artcurial. About 30 renowned artists, including some well-known for street art, offered their talent and created an original work from a replica of the hull of the legendary expedition vessel Tara. Among them

Hello Monsters, Mist, Lemodulezeer, Jayone, Speedy Graphito, Futura, Cyprien, Chabert, Jonone, Space Invader, L'Atlas, Seth, Philippe Baudelocque, Kraken, Psyckoze, Lek et Sowat, Vincent Chery, agnès b. John Giorno, Jean Faucheur, Christian Sardet, Hibino, Jacques Villeglé, Ikon, Mambo, Ox, Zeus...

This sale for the benefit of the Tara Ocean Foundation was a generous gesture from many bold artists, discovered and exhibited at the Galerie du jour agnès b. since 1989.

Thanks to their mobilization and the buyers' enthusiasm, a total of 124,000 € was raised. These funds will enable the Foundation to further develop high-level scientific research and disseminate this new knowledge among the widest public possible. The Foundation also aims to accompany and raise awareness among young people throughout the world and along the schooner's path, so that they learn and understand the Ocean of tomorrow.

The Tara Ocean Foundation sincerely thanks the 30 artists for their commitment and generosity, as well as the auction house Artcurial and the agnès b. endowment fund for their valuable support.



© François Aurat / Tara Ocean Foundation

The Foundation's goals

The purpose of the Tara Ocean Foundation is to fund, alone or in partnership, French scientific research on the impact of global warming and worldwide changes (pollution, demography, human actions in general, etc.) on ecosystems; raise public awareness of environmental issues, and disseminate the related scientific data and results for educational purposes

The Tara Ocean Foundation's means of action

- Organizing scientific expeditions, particularly with the schooner Tara
- Co-producing documentary films and organizing cultural and educational events dedicated to the expeditions organized by the Foundation and their results and/or the issues raised by these expeditions
- Organizing exhibitions, conferences, events, TV and network broadcasts, as well as the publication, reproduction and edition in any form and by any processes, known or unknown, on the expeditions organized by the Foundation, related results and/or issues raised by these expeditions
- Organizing educational programs
- Providing scholarships and financial aid to researchers or research teams working on the impact of global warming and global-scale changes on ecosystems and more generally, supporting any action contributing to the development of the Foundation's goals

Administration and operation

The Tara Ocean Foundation is administered by a board of directors of **9 members**, consisting of **3 colleges**:

- 3 members of the college of founders, 2 life members: Agnès Troublé, known as agnès b., and Etienne Bourgois, the "Agnès TROUBLÉ known as agnès b." endowment fund represented by a person mandated by the legal entity
- 4 members of the college of qualified personalities, composed of persons chosen for their expertise in the Foundation's areas of activity. They are co-opted by other members of the board of directors.
- 2 members representing the college of the Foundation's friends, designated by "Les Amis de Tara" association. The status of member of the association's board of directors is incompatible with that of the Foundation's board of directors, in any college other than that of "Les Amis de Tara".

A government commissioner, appointed by the Ministry of Interior, attends the meetings in an advisory capacity and ensures compliance with the statutes and public utility status of the Tara Ocean Foundation's activities.



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Composition of the board of directors

College of founding members

Etienne Bourgois, CEO of agnès b., president of the Tara Ocean Foundation.

Agnès Troublé known as agnès b., designer / business executive.

Nathalie Kistler, secretary general at agnès b, mandated by the "Agnès Troublé, dite agnès b." endowment fund, treasurer of the Tara Foundation.

College of qualified persons

Eric Karsenti, emeritus research director at the CNRS and associate research director at EMBL.

Gérard Bonhoure, honorary inspector general of National Education.

Françoise Gaill, CNRS research director.

Antoine Ricardou, certified government architect / designer.

College of the Foundation's Friends

Sylvie Duboué, sales director, president of "Les Amis de Tara" association and board member of the Tara Ocean Foundation.

Christian de Marliave, editor.

Government commissioner

Thierry Boisseaux representative of the Ministry for an Ecological and Solidary Transition.

Executive director of the Tara Ocean Foundation:

Romain Troublé as executive director of the Tara Ocean Foundation, manages the Foundation and ensures its operation. Under delegation of the president, he has the powers required to carry out his mission. By right, he attends the board of directors and board meetings in an advisory capacity.

The board of directors settles matters concerning the Foundation through its deliberations.

In particular,

- It decides on the Foundation's agenda.
- It adopts the annual report, presented by the board, concerning the Foundation's moral and financial situation.
- It votes, upon the proposal of the board, the budget and its changes, as well as provisions for hiring.
- It discusses and approves the accounts for the year ended, presented by the treasurer with supporting documents.
- It adopts, upon the proposal of the board, the Foundation's rules of procedure.
- It accepts and assigns donations and legacies and allows, beside everyday management, acquisitions and disposals of real estate and movable assets, markets, leases and rental agreements, mortgages and loans, securities and guarantees granted on behalf of the Foundation.
- It designates one or more selected auditors on the list referred to in article L.822-1 of the French Commercial Code.
- It lays down the conditions of staff recruitment and remuneration.
- It is informed by the president of any project of convention engaging the Foundation and deliberates on agreements falling within the scope of article L.612-5 of the French Commercial Code; in this case, it issues a decision without the presence of the person concerned.

The Tara Ocean Foundation is supported by two committees: a scientific committee and an advisory committee on education.



Scientific committee

Eric Karsenti, emeritus research director at the CNRS and associate research director at EMBL.

Françoise Gaill, CNRS research director.

Gaby Gorsky, director of the Observatoire Océanologique de Villefrance-sur-Mer/UPMC-CNRS.

Patrick Wincker, CEA research director and director of the Génoscope-National Sequencing Center.

Colomban de Vargas, CNRS research director and EPEP team leader at the Roscoff Biological Station.

Chris Bowler, CNRS research director and director of the "Environmental and Evolutionary Genomics" section (Biology Institute, École normale supérieure) since 2010. (IBENS, CNRS/ENS).

Serge Planes, CNRS research director at the Centre de recherche insulaire et observatoire de l'environnement (CRIOBE - CNRS/EPHE/UPVD) and scientific director of the Tara Pacific expedition.

Advisory committee - Education division

Gérard Bonhoure, honorary inspector general of National Education.

Florence Clément, ADEME.

Sabine Lavorel, French institute of education.

Françoise Ribola, Academy of Versailles.



The Tara Ocean Foundation's annual accounts presented below have been validated by the accounting firm KPMG S.A

Accounting rules and methods

General accounting conventions have been applied, in conformity with the principle of prudence and in accordance with the following basic assumptions:

- Going concern assumption.
- Consistent accounting methods from one financial year to the next.
- Independence of financial years in accordance with general rules for the preparation and presentation of annual financial statements.

The Foundation drew up its financial statements in accordance with the ANC 2014-03 regulation and its adaptations to associations and foundations, as required by the regulations No. 99-01 and CRC 2009-01 on accounting rules applicable to foundations.

The basic method used for evaluating accounting items is the historical cost method.

Intangible and tangible assets

Tangible assets are valued at their acquisition or production cost, including all costs necessary to make these assets operational, after deducting trade discounts and rebates.

Depreciation is calculated using the straight-line or declining balance basis, depending on the expected useful life of the assets :

- Website: 3 years on a straight-line basis.
- Audiovisual co-productions: 3 years on a straight-line basis.
- Floating equipment: 3-10 years on a straight-line basis.
- Scientific floating equipment: 3-5 years on a straight-line basis.
- Installations and fittings: 10 years on a straight-line basis.
- Transport equipment: 3 years on a straight-line basis.

- Office equipment and hardware: 3 years on a straight-line basis.
- Video, photo material: 3 years on a straight-line basis.
- Furniture: 3-7 years on a straight-line basis.

For information, following an expert report, the schooner Tara was amortized over 100 years, and the rigging over 30 years.

Following the devolution of the fixed assets of Tara's endowment fund to the Tara Ocean Foundation, intangible and tangible fixed assets were depreciated over their remaining useful life.

Financial assets and investment securities

The gross value is composed of the assets' acquisition cost, excluding incidental expenses. When the inventory value is lower than the gross value, depreciation is recorded of the amount of the difference.

Inventories

Inventories are valued using the "first in, first out" method. The gross value of goods and supplies includes purchase price and incidental expenses.

Manufactured products are valued at their production cost, including consumption, direct and indirect production expenses, and depreciation of goods contributing to the production.

The cost of the sub-activity is excluded from the value of inventories. Interest is always excluded from stock valuation. Where appropriate, inventories are written down to reflect their net realizable value at the balance sheet date.

Receivable and payables

Receivables and payables are measured at their nominal value. Depreciation is recorded when the inventory value is lower than the book value

asset	The financial year ended on 12/31/2018 (12 months)		The financial year ended on 12/31/2017 (12 months)		Variation
	Gross	Prov. deprec	Net	Net	
Intangible fixed assets					
Start-up costs					
Research and development expenses					
Concessions, patents and similar rights	204,822	135,266	69,556	120,466	-50,910
Commercial funds					
Other intangible assets Intangible assets in progress advances Advance payments on intangible assets					
Tangible fixed assets					
Land					
Buildings					
Industrial facilities, machinery and equipment	2,439,089	310,528	2,128,561	2,219,000	-90,439
Other tangible fixed assets Fixed Assets burdened of rights Fixed Assets in progress Advances payments on fixed assets	177,571	86,401	91,169	63,867	27,302
Financial fixed assets					
Interests					
Receivables from equity interests Fixed Portfolio securities Other fixed securities Loans Other financial fixed assets					
total (I)	2,821,482	532,195	2,289,287	2,403,333	-114,046
Inventories in progress					
Raw materials, supplies	38,818		38,818	54,067	- 15,249
Production of goods and services in progress					
Semi-finished and finished products					
Goods	21,740		21,740	24,953	- 3,213
Advance payments on orders	193		193	31,622	- 31,429
Trade and other receivables	6,737		6,737	5,533	1,204
Other receivables					
• Trade creditors				632	- 632
• Staff					
• Social organizations					
• State, income taxes					
• State, turnover taxes	4,751		4,751	210	4,541
• Other	1,005,885		1,005,885	1,391,558	- 385,673
Investment securities					
Treasury instruments					
Liquid assets	467,923		467,923	429,338	38,585
Prepaid expenses	254,778		254,778	452,802	- 198,024
total (II)	1,800,826		1,800,826	2,390,716	- 589,890
Deferred charges over several financial periods (III)					
Loan redemption premiums (IV)					
Exchange differential - asset (V)					
total assets	4,622,308	532,195	4,090,113	4,794,049	- 703,936

liabilities

	The financial year ended on 12/31/2018 (12 months)	The financial year ended on 12/31/2017 (12 months)	Variation
Associative funds and reserves			
Equity			
. Associative funds without right of repossession	1,991,246	1,991,246	
. Revaluation differences			
. Reserves			
. Profits/Losses carried over	175,532	191,603	- 16,071
. Results of the financial year	-5,215	-16,071	10,856
Other associative funds			
. Associative funds with repossession rights			
. Contributions			
. Legacies and donations			
. Results under control of third party funders			
. Revaluation differences			
. Investment grants on assets non-recurrent	167,423	124,188	43,235
. Regulated provisions			
. Rights of owners (commodate)			
total (I)	2,328,987	2,290,966	38,021
Provisions for risks and charges			
total (II)			
Dedicated funds			
. On operating grants			
. On other resources	790,439	1,245,207	- 454,768
total (III)	790,439	1,245,207	- 454,768
Debts			
Loans and similar debts	87,500	137,500	- 50,000
Advance payments received on pending orders			
Suppliers and related accounts	116,557	136,096	- 19,539
Other	305,339	618,835	- 313,496
Treasury instruments			
Deferred income	461,291	365,445	95,846
total (IV)	970,687	1,257,876	- 287,189
Exchange differential - liability (V)			
total passif	4 090 1134	794 049	- 703 936
Received commitments			
Net legacies			
. accepted by statutorily competent authorities			
. authorized by the regulatory authority			
In-kind donations for sale Given commitments			



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Balance sheet analysis

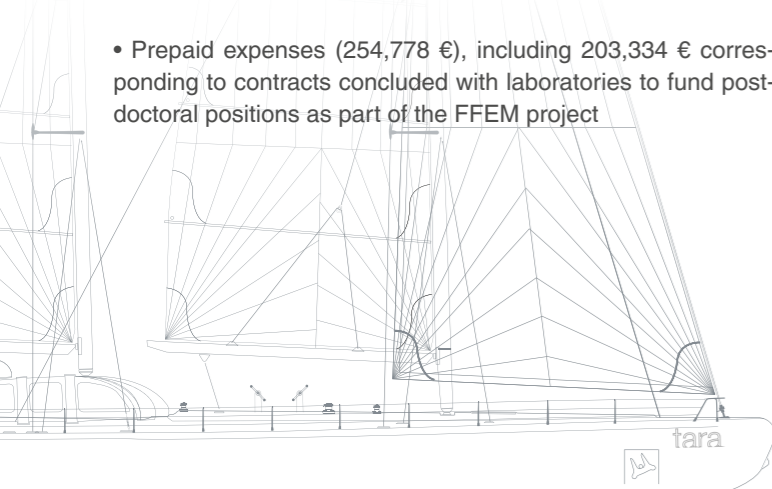
Assets

The Foundation has a total net assets of 4,090,113 €. Key lines are as follows:

- Net intangible assets (69,556 €) including the website, Tara Expeditions brand and 5 documentaries co-produced by the Foundation
- Tangible fixed assets for a net amount of 2,219,730 €, consisting of the schooner for 1,750,000 €, annual maintenance work representing 29 802 € in 2018, exhibition materials for 58,639 € and office equipment
- Subsidies receivable in an amount of 1,000,213 €, including the funds balance to be paid in the coming years by our partners and subject to an agreement (FFEM for 480,055 €, L'Oréal 2019-2020 for 300,000 €, the Veolia Foundation for 80,000 €, the Brittany Region for 100,408 € and other conventions for a total amount of 39,750 €)
- Prepaid expenses (254,778 €), including 203,334 € corresponding to contracts concluded with laboratories to fund post-doctoral positions as part of the FFEM project

Liabilities

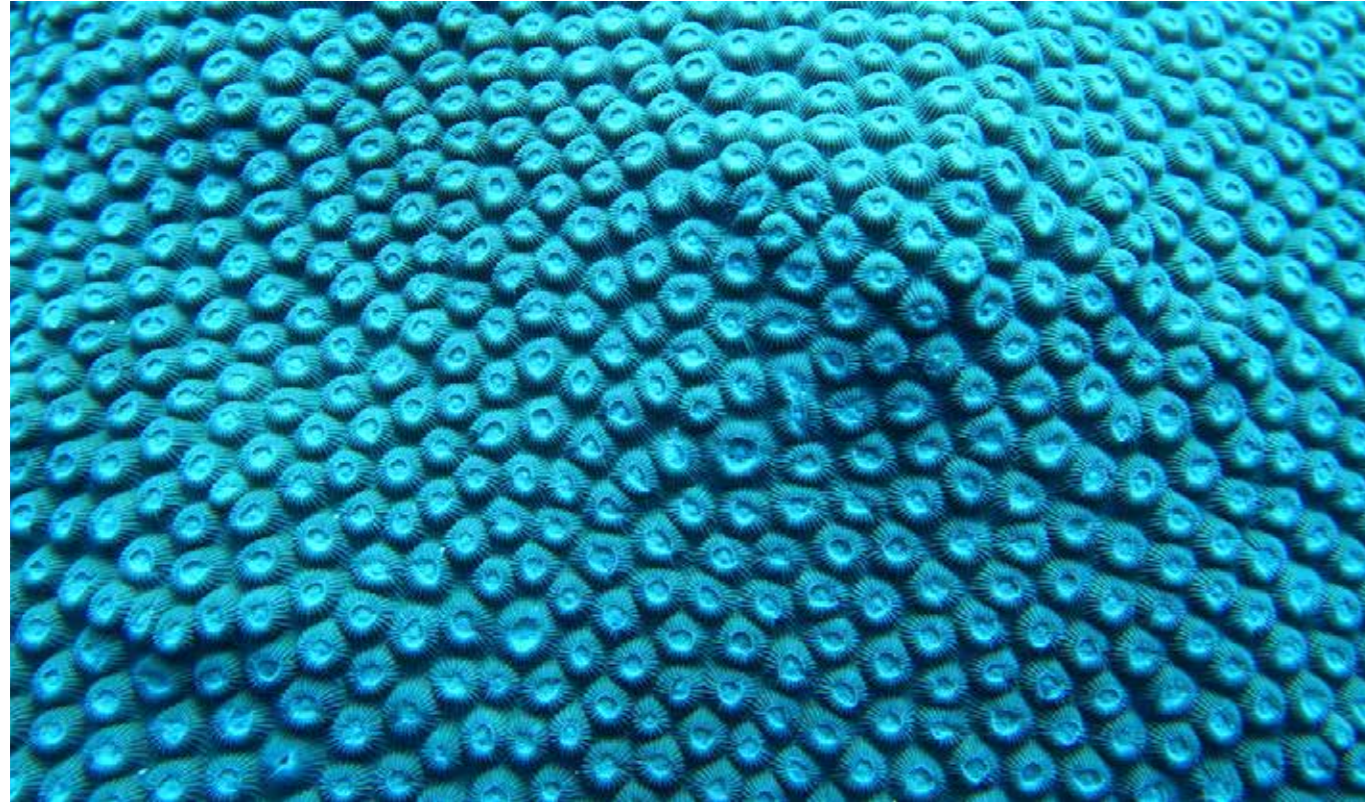
- Associative funds without repossession rights (1,991,246 €) including the donation of the schooner Tara for 1,750,000 € and devolution of the Tara Fund for 241,256 €
- Retained earnings of 175,532 €, including the 2017 income appropriation
- Investment grants (167 423 €) corresponding mainly to the share of fixed assets purchased in 2016 for scientists as part of our agreement with the Brittany Region (216,256 €), less accumulated amortization (146,231 €) and the share of fixed assets purchased in 2018 as part of the agreement with the Brittany Region (100,408 €), less accumulated amortization amounting to 3,467 €, the difference resulting from a CRIDF grant
- Dedicated funds under the FFEM agreement amounting to 790,439 €
- Remaining amount of the bank loan granted to finance the change of engine and validated during the board meeting of September 19, 2016, amounting to 87,500 €
- Accruals (203,334 €) are counterpart to commitments of the postdoctoral contracts associated to the "prepaid expenses" account
- Deferred income (461,291 €) corresponding to grants receivable (459,750 €) and subsidy for the realization of a new Blue Book dedicated to the Pacific Ocean



© Maeva Barcy / Tara Ocean Foundation

	The financial year ended on 12/31/2018 (12 months)			The financial year ended on 12/31/2017 (12 months)	Variation	%
	France	Exports	Total	Total		
Operating income						
Sales of goods	16,121		16,121	37,454	-21,333	-56.96
Production sold (goods)		3,700	3,700	78,076	48,435	62.04
Production sold (services)	122,811		122,811			
Net operating income	138,932	3,700	142,632	115,530	27,102	23.46
Other operating income						
Inventoried products						
Capitalized production			58,639	6,159	52,480	852.09
Operating grants			207,343	123,230	84,113	68.26
Contributions						
Other income			1,899,873	2,102,507	-202,634	-9.64
Reversal of provisions Cost						
Transfers			53,697	16,554	37,143	224.37
Subtotal of other operating income			2,219,552	2,248,450	-28,898	-1.29
Total operating income (I)			2,362,183	2,363,979	-1,796	-0.08
Share in income from joint operations						
Transferred surplus (II)						
Financial income						
From equity interests						
From other securities and asset receivables						
Other interest and similar income						
Reversals of provisions and impairments, and cost transfers						
Positive exchange differences			555	2,004	-1,449	-72.31
Net income from sales of marketable securities						
Total financial income (III)			555	2,004	-1,449	-72.31
Extraordinary income						
On management						
Transactions from capital transactions			58,292	57,506	786	1.37
Reversals of provisions and cost transfers						
Total extraordinary income (IV)			58,292	57,506	786	1.37
Total income (I + II + III + IV)			2,421,031	2,423,490	-2,459	-0.10
(+) Carry over of unused resources from prior financial years			454,768	515,222	-60,454	-11.73
Debit balance = deficit			-5,215	-16,071	10,856	67.55
Grand total			2,881,013	2,954,783	-73,770	-2.50

	The financial year ended on 12/31/2018 (12 months)	The financial year ended on 12/31/2017 (12 months)	Variation	%
Charges d'exploitation				
Purchase of goods	9,325	39,948	-30,623	-76.66
Changes in goods stock	3,214	-20,856	24,070	115.41
Purchases of raw materials and other supplies	66,395	65,248	1,147	1.76
Changes in stocks of raw materials and other supplies	15,249	3,663	11,586	316.30
Other purchases of non-stock consumables	80,697	93,525	-12,828	-13.72
External services	571,952	630,529	-58,577	-9.29
Other external services	653,059	674,253	-21,194	-3.14
Taxes, duties, and similar payments	81,602	78,672	2,930	3.72
Salaries and wages	889,462	893,620	-4,158	-0.47
Social costs	292,899	276,804	16,095	5.81
Other personnel expenses				
Grants awarded by the organization	1,000		1,000	n/s
Depreciation and impairment charges				
. On fixed assets: Depreciation charges	204,294	198,965	5,329	2.68
. On fixed assets: impairment charges				
. On current assets: impairment charges				
. For liabilities and charges: provision				
other charge	1,368	8,541	-7,173	-83.98
Total operating charges (I)	2,870,515	2,942,912	-72,397	-2.46
Share in income from joint operations				
Transferred deficit (II)				
Financial expenses				
Depreciation, impairment and provision charges Interest payable and similar charges	2,045	2,503	-458	-18.30
Foreign exchange losses	1,858	4,485	-2,627	-58.57
Net charges on sales of marketable securities				
Total financial expenses (III)	3,903	6,987	-3,084	-44.14
Exceptional expenses on				
Management activities				
From capital transactions	508		508	n/s
Dotations aux amortissements, aux dépréciations et provisions				
Total extraordinary expenses (IV)	508		508	n/s
Employee profit sharing (V)				
Corporate taxes (VI)	6,086	4,884	1,202	24.61
Total des charges (I + II + III + IV + V + VI)	2,881,013	2,954,783	-73,770	-2.50
(-) Commitments to be fulfilled on allocated resources				
Credit balance = surplus				
Grand total	2,881,013	2,954,783	-73,770	-2.50
Evaluation of voluntary contributions in kind				
Income				
. Volunteering				
. Benefits in kind				
. In-kind donations				
Total				
Charges				
. Assistance in kind				
. Free provision of goods and services				
. Services				
. Volunteer staff				
Total				



© Vincent Hilaire / Tara Ocean Foundation

Detailed balance sheet analysis

In 2018, the Foundation's income statement presents a deficit of 5,215 €.

Income

- **Production sold** (126,511 €), corresponding mainly to Biotherm sponsorship of 60,000 €, excluding tax, and rental of exhibition to Cherbourg for 25,000 €, excluding tax.
- **Capitalized production** (58,639 €) corresponding to the capitalization of costs related to the exhibition.
- **Les subventions d'exploitation**, (207,343 €) including:
 - Lorient Agglomération's grant for 100,000 €
 - Share of the AFD grant (14,235 €) for the Blue Book
 - Oceanomics for 10,000 € ANR AAP for 5,250 €
 - Saint-Mandé Town Hall for 5,000 €
 - MTES for 60,000 €
 - and subsidies related to our educational program (12 858 €)
- **Sponsorship** of the founding members and signatory partners to agreements amounting to 1,578,319 €.
- **Other sponsors** paid 317,927 € including 126,000 € from the Artcurial auction and 73,000 € collected during the fundraising evening.
- **Recovery of FFEM dedicated funds** (454,768 €), corresponding to expenses incurred in 2018 in the framework of this project.

- **Extraordinary income** (58,292 €) corresponds to the depreciation charge for material purchase financed by investment grants. Every year a share will be paid until a net carrying amount of 0 is reached.

Charges

- Part of the expenses, such as supplies, fuel, port and harbor fees, trips and missions, Thalys phone, etc., are directly related to the expedition.
- The main expenses are listed below.
- Maintenance supplies (44,086 €) corresponding mainly to small parts used for maintenance work on the schooner and stock needed for the expedition.
 - Costs related to the EMBL coordination and remuneration of postdoctoral fellows amounting to 203,798 € in the framework of the FFEM project.
 - GST fees (59 675 €) allocated to study the project under development.
 - Tara's reception (43 555 €) are the costs related to Tara's return to Lorient after 3 years of expedition. As detailed above in this report, Tara's return included a vast operation to raise awareness among the general public about the issues the Ocean is facing.



© Tara Ocean Foundation

Use of	Use of resources (= balance sheet)	Allocation by use of resources raised from the general public, spent in N.
1-1- Social missions	1 976 515	317 927
1.1.Carried out in France	1 976 515	317 927
Actions implemented directly	1 744 017	317 927
Payments to other organizations acting in France	232 498	
1.2.Carried out overseas	0	0
Actions implemented directly s	0	
Payment to a central agency or other agencies	0	
2- 2-Fundraising expenses	237 307	0
2.1.Expenses related to appeals for public generosity	79 853	
2.2.Private fundraising expenses	157 454	
2.3.Public fundraising expenses	0	
3- Operating & other charges	667 191	0
		317 927
I - Total uses of funds recorded in the balance sheet	2 881 013	
II - Provisions	0	
III - ECommitments to be fulfilled on allocated resources	0	
IV - Resource surplus over the financial year		
V - Grand total	2 881 013	
V - Share of gross fixed assets acquired during the financial year and funded by resources raised from the general public	0	
VI - Neutralization of depreciation charges of fixed assets financed as from the date of 1st application of the regulation through resources raised from the general public	0	
VII - Total jobs funded through resources raised from the general public	317 927	

Evaluation of voluntary in-kind contributions

Social missions	-
Fundraising expenses	-
Operating and other expenses	-



© Samuel Bolleandoff / Tara Ocean Foundation

Resources	Collected resources (= balance sheet)	Surveying of resources raised from the general public and used in N
Carry over of resources raised from the general public, unallocated and unused at the beginning of the financial year	0	
1- Income from public generosity	317 927	317 927
1.1. Collected donations and legacies	317 927	317 927
Unallocated individual donations	317 927	317 927
Allocated individual donations	0	0
Legacies and other unallocated donations	0	0
Legacies and other allocated donations	0	0
1.2. Other income raised from public generosity	0	0
2- Other private funds	1 578 319	
3- Grants and other public financial support	207 343	
4- Other income	217 343	
I - Total resources for the financial year recorded on the balance sheet	2 421 031	
II - Reversals of provisions	0	
III - Carry over of unused resources from prior financial years	454 768	
IV - Variation in dedicated funds raised from the general public		0
V - inadequate resources for the financial year	5 215	
VI - Grand total	2 881 013	317 927
VI - Total uses of resources funded by public generosity		317 927
Balance of resources raised from the general public, unallocated and unused at the end of the financial year		0
Volunteering	-	
Benefits in kind	-	
In-kind donations	-	

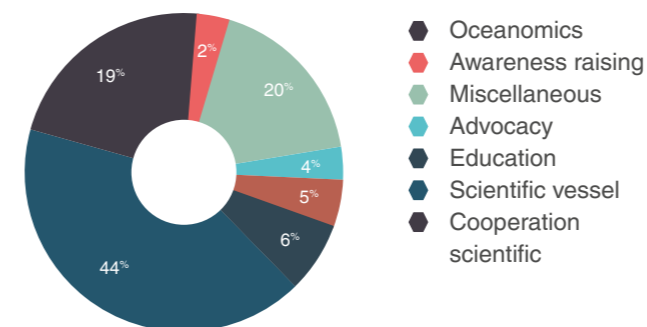
Analysis of the expenditure account

Use of resources

The Tara Ocean Foundation has a social mission amounting to 1,976,515 €. According to the development method of expenditure account, validated during the board meeting of June 15, 2017, all the funds raised from the general public (317,927 €) were allocated to this account.

The total use of resources for the financial year amounted to 2,881,013 €. 68,60% of these resources are allocated to our social mission, 8.24% to fundraising and 23.16% to operating costs

Details of the 2018 social mission



Resources

Other private funds correspond to the sponsorship by founding members and signatory partners to agreements (1,578,319 €).

Grants and other subsidies (207 343 €) include the Lorient Agglomeration grant (100,000 €), share of the AFD grant (14,235 €) for the Blue Book, Océanomics (10,000 €), ANR AAP (5,250 €), Saint-Mandé Town Hall (5,000 €), MTES (60,000 €) and subsidies related to our educational program (12,858 €).

Other income (317 442 €) includes sponsorships, various sales, capitalized production of the traveling exhibition, cost transfers, benefits in kind, and depreciation charges of scientific equipment.

Tables

Development method and content

Reference legal framework

The statement for use of resources raised from public generosity is drawn up in accordance with provisions of the Law of August 7, 1991 and the Decree of July 30, 1993.

The statement for use of resources includes all the Tara Ocean Foundation's operations.

The application of CRC 2008-12 of May 7, 2008 was implemented as from the financial year 2016 (effective starting date: March 13, 2016). Modalities for establishing the statement for use of resources was validated during the board meeting of June 15, 2017.

Throughout the year, there was no change in methodology.

Social missions

According to the statutes, the Foundation's social missions are as follows:

- Funding of research teams
- Funding of the Tara expedition
- Film production
- Educational actions related to the ongoing expedition, exhibitions, events
- Raising public awareness

Definitions of resources raised from public generosity

Resources raised through campaigns appealing to public generosity consist of all funds raised by the Foundation as part of a fundraising appeal, on any medium whatsoever, except for funds collected as part of sponsorship agreements and resources from foundations (taken into account in the "other private funds" section).

Other income related to public generosity is exclusively composed of financial products from investment of funds raised through fundraising appeal.

Principles of cost allocation in the framework of the use of resources statement

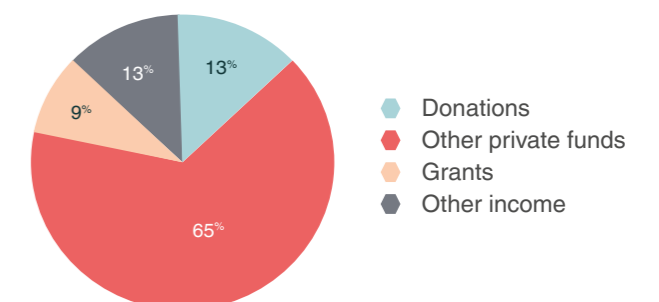
Direct costs are charged according to their nature, by distinguishing social missions, fundraising and operating costs. Indirect costs are distributed according to cost accounting, possibly adjusted for the following elements:

- Director general's salary and social costs, distributed in proportion of:
 - 10% operating expenses
 - 40% fundraising expenses
 - 50% social missions

Principles of resource allocation to finance social missions

Unallocated resources raised through appeals to public generosity are assigned as a priority to cover social missions. In the event that a remaining amount exists, it is allocated to fund fixed assets allocated to social missions, then cover operating costs and lastly, fundraising expenses

2018 resources





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