

VARIOUS SAMPLING BEYOND TECHNIQUES RESEARCH

- Manual collection of coral fragments
- Core sampling
- Photographic recording of sampling sites and the studied species in situ
- Sampling of seawater and surrounding microorganisms (bacteria and viruses)
- Genomic analysis (DNA / RNA) of samples

AROUND AND BETWEEN REEFS

- Measurement of temperature and biochemical parameters of seawater (salinity, turbidity, etc.)
- Continuous characterization of surface water during navigation between reefs

During the voyage around the Pacific, besides conducting scientific research, Tara will be an advocate for ocean governance. The Tara Pacific expedition will be an occasion to make appeals to politicians and the business world, and raise general awareness about the most urgent environmental issues, including problems specifically confronting the populations of Pacific islands.

FOLLOW TARA

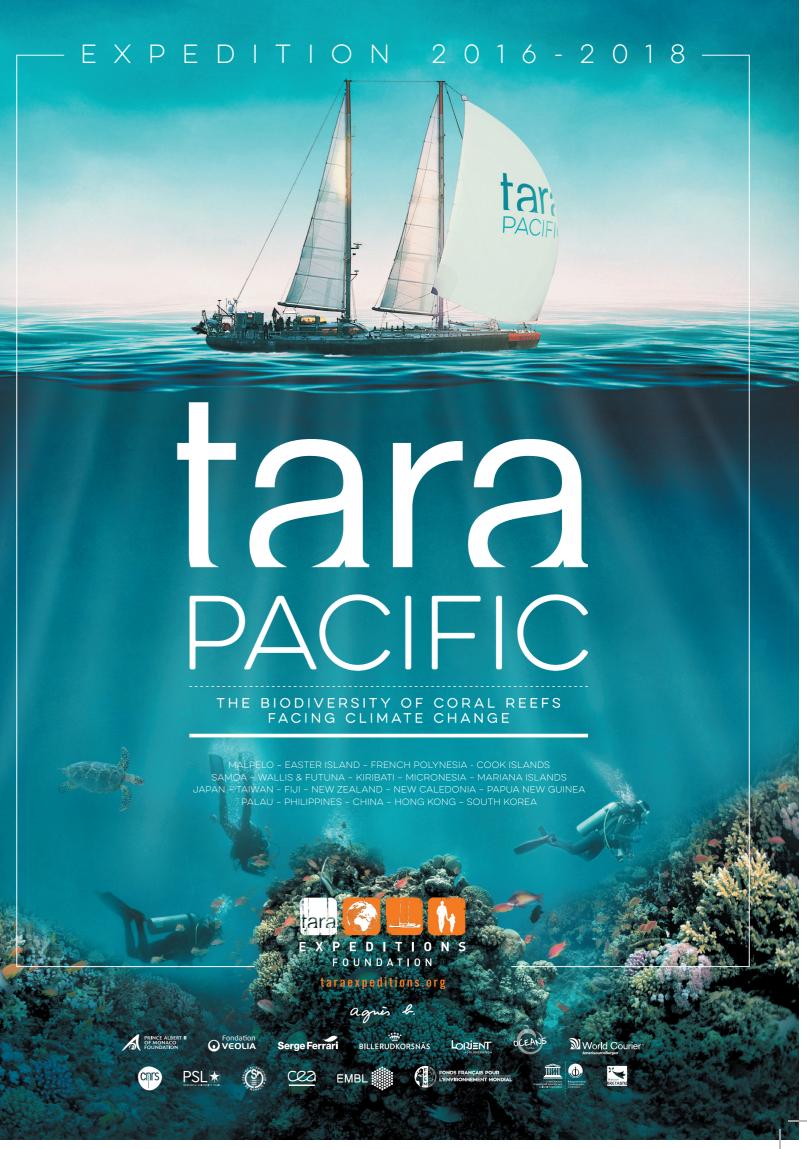
#TARAPACIFIC

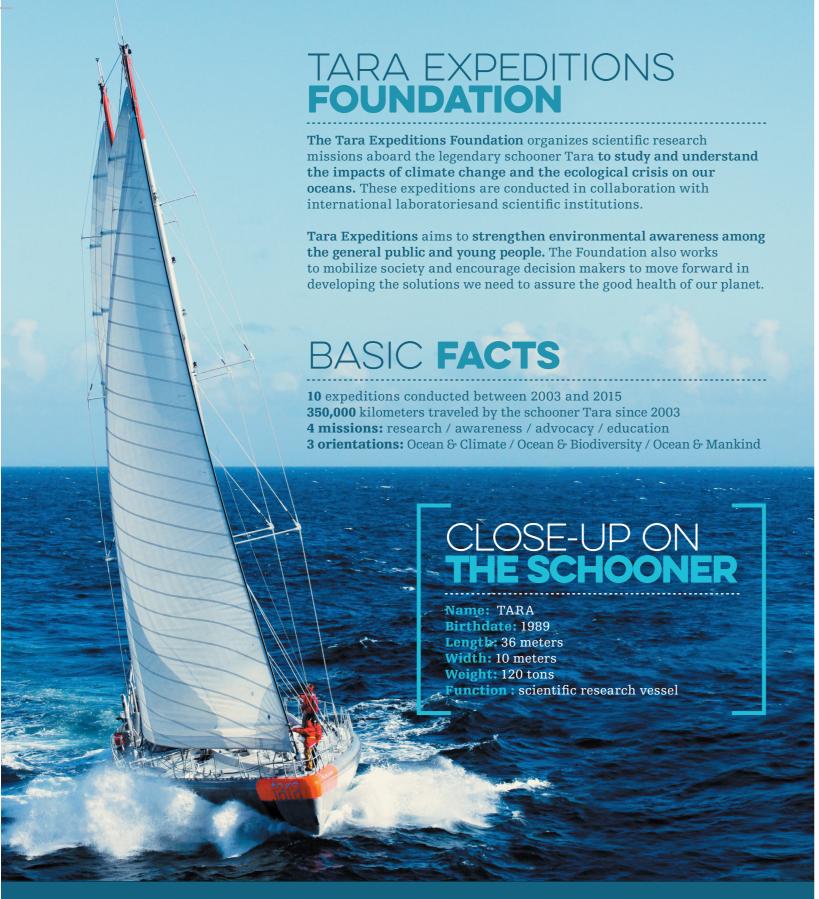






taraexpeditions.org





TARA PACIFIC **NUMBERS**

- 11th Tara expedition since 2003
- 30 countries to be visited
- 70 stopovers
- 2 ½ years of navigation
- -100,000 kilometers traveled
- 70 scientists from 8 countries
- 26 laboratories and research institutes participating
- 200 sampling sites

- **40,000** samples collected
- 40 archipelagos systematically analyzed & compared
- 10 sites targeted for study of specific local issues
- 11 time zones traversed
- 6 sailors and 7 scientists continually on board
- 8 artists-in-residence aboard over 2-year period



Tara will traverse the Pacific Ocean, voyaging nearly 100,000 km for more than 2 years. On board, an international, multidisciplinary team of scientists coordinated by the CNRS and the Scientific Centre of Monaco (CSM). Our goal is to collect the necessary data to compare in a new way the biodiversity of coral reefs and their evolution as they confront climate change.

Coral reefs cover less than 0.2% of the ocean floor, but include nearly 30% of known marine biodiversity. Their health is crucial for the many different species they shelter, but also for mankind. A large number of reefs have been dying in recent years. Studying this fragile and endangered ecosystem is now a priority!





KEY NUMBERS 4 RESEARCH ON CORAL REEFS ORIENTATIONS

Home to 30% of known marine biodiversity, they cover less than **0.2**% of the ocean floor. **57,557** km² of reefs are situated in French territory. The value of services provided by coral reefs is estimated at 30 billion dollars per year.

46% of reefs are in good health.

20% of reefs have been destroyed.

35% of reefs are facing extinction.

- Studying the state of health of coral reefs in the context of climate change.
- Identifying the biodiversity of coral reefs, from genes to the entire ecosystem.
- Exploring the capacity of resistance, adaptation and resilience of reefs.
- Contributing to the development of applications for tomorrow's medical research.