

The Quest to Restore Earth's Most Polluted Sanctuary



PRESS KIT

Henderson Expedition 2024





KNOWN AS THE MOST POLLUTED PLACE ON EARTH

A 2015 analysis (published in 2017) revealed that in South Polynesia, on one of the four islands of the Pitcairn archipelago, Henderson Island, more than 8 tons of plastic washed up on its beaches: "the highest density of plastic debris ever recorded in the world".

The 38 km² island has **over 38 million pieces of plastic** on its shores. Conservative estimates suggest that 3,500 to 13,500 new plastic items wash up on Henderson every day.

The beach on the eastern side of the island, 2 km long, is polluted by 30 million pieces of plastic waste.



An Impossible Cleanup

THE FIRST ATTEMPT - 2019

In 2019, an expedition attempted to clean up this isolated sanctuary. **6 tons of garbage** were collected on the eastern beach of the island. Unfortunately, blocked by waves breaking on the coral reef that protects the island, the team was unable to remove the big bags filled with waste and was forced to leave them on the island.

The major challenge in removing the waste from Henderson Island is therefore to **cross the coral reef without damaging it**. A difficult step because of the rocks and waves blocking access to the beach. Therefore, extracting the waste using converntional mean is impossible and requires inventing new solutions that can be replicated in other polluted areas that are difficult to access.

5 years after this unsuccessful attempt, Plastic Odyssey decided to tackle this impossible mission.









To solve the problem of waste extraction without damaging the coral reef, **several innovative systems** have been used:

THE RAFT

When the weather is favorable, a raft is used to transport the big-bags to the ship.

THE PARASAIL

When the waves are too strong, an ascending parasail system evacuates the waste above the water.





7 DAYS AND 25 PEOPLE MOBILIZED TO CLEAN UP, EVACUATE AND RECYCLE WASTE

6 tons of plastic waste from 2019, confined in big bags above the high tide line, were successfully evacuated.

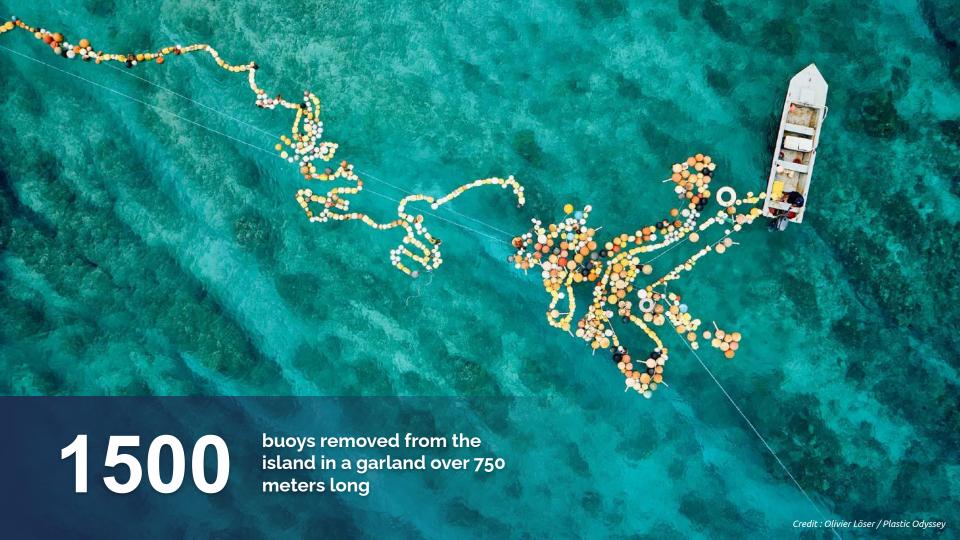
The beach was cleaned of new garbage that accumulated since 2019. An additional 3 tons were collected and disposed of bringing the total mass of waste disposed of to over 9 tons.

The **recycling of plastics** into useful objects was carried out with Pitcairn residents, using on-board machinery aboard the Plastic Odyssey floating laboratory.

Scientific **data** have been collected to better understand the impact of plastic pollution.







































A Successful, Replicable Expedition

NEW HOPE FOR HARD-TO-REACH POLLUTED AREAS

There are hundreds of isolated, hard-to-reach islands impacted by plastic pollution. Plastic Odyssey's expedition to Henderson proved that low-tech solutions can not only clean up but also recycle the waste that is invading our sanctuaries. A powerful symbol of a global pollution that urgently needs to be stopped at its source: the earth.

HELP US PROTECT THESE ISLANDS AND DEVELOP CONCRETE SOLUTIONS TO PREVENT PLASTIC POLLUTION FROM CONTINUING TO DESTROY OUR ECOSYSTEM.

SHARE OUR ADVENTURE.



PLASTIC ODYSSEY

Plastic Odyssey is an international project that aims to combat plastic pollution. Thanks to its worldwide network of partners, researchers, scientists, entrepreneurs, teachers and engineers, Plastic Odyssey is developing concrete solutions for recycling plastic waste and raising awareness of alternatives to plastics.



Henderson 2024 Expedition Partners

























PARTNERS OF THE PLASTIC ODYSSEY EXPEDITION

Field

Main





Officials













Solidarity



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