



CAN-141-Coral Reefs Not a Lost Cause

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Research Shows Efforts to Save Coral Reefs Not a Lost Cause

by [Blue Ocean Network](#)

Live Coral reduced by 40% because of warm ocean temperatures



Science Daily — In a 13-year study in the Cayman Islands, warm ocean temperatures led to bleaching and infectious disease that reduced live coral cover by more than 40 percent between 1999 and 2004. But seven years later, the amount of live coral on the reefs, the density of young colonies critical to the reefs' future health, and the overall size of corals all had returned to the 1999 state, the study showed.

Much of the reef surrounding Little Cayman Island is protected, so damage from fishing, anchoring and some other human activities is minimized, said UF researcher

Chuck Jacoby, who helped with the study.

Update: Celebrating The Year of the Reef



During 2018 we are celebrating The International Year of The Reef. Over the next few months we will increase the frequency of our articles on the world's coral reef ecosystems. We will include current news on the health of reefs and the worldwide efforts to maintain and restore them. In addition, we will republish a variety of our past, but still very pertinent

and helpful articles on coral reefs. Our hope is that this effort will focus more attention on these very important issues.

Little Cayman is an Example of Resiliency

"Nevertheless, all coral reefs, even those that are well-protected, suffer damage," Jacoby said. "Little Cayman is an example of what can happen, because it is essentially free from local stresses due to its isolation, small human population and generally healthy ecology."

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Tom Frazer, a professor of aquatic ecology, and Jacoby, a courtesy faculty member in UF's Soil and Water Science Department, said the study shows reasons to protect coral reefs, even though some scientists believe there's little point in putting more resources into reef management.

"Some say it's a lost cause. We believe there's value in making sure coral reefs don't die."

"There's a debate over how resilient coral reefs are," said Frazer, director of UF's School of Natural Resources and Environment, part of the Institute of Food and Agricultural Sciences. "Some say it's a lost cause. We believe there's value in making sure coral reefs don't die."

Coral Reefs are Home to 25% of Marine Organisms

Despite occupying less than 0.01 percent of the marine environment, coral reefs harbor up to 25 percent of the different species of marine organisms, yield about 25 percent of the fish caught in developing nations and generate up to 30 percent of the export earnings in countries that promote reef-related tourism, the study said.

Over-fishing, runoff containing sediments and nutrients, coral mining, tourism and coastal development have long threatened coral reefs. Now, scientists say, global warming is accelerating the destruction.

Despite these travails, the new UF study offers hope for coral reefs — if humans pay more attention to protecting them.

"In addition to saving the living organisms that make coral reefs their homes, safeguarding the habitats could ensure millions of dollars for the fishing and tourism industries, not to mention maintaining barriers that protect coastal areas and their human inhabitants from tropical storms," Frazer said.

The study, published in the November online publication Public Library of Science, was later highlighted in the "Editor's Choice" section of last month's issue of the journal Science.

From 1999-2012, scientists, including Frazer and Jacoby, studied reefs around Little Cayman Island, an area known for its healthy reefs. Researchers wanted to see how well the reefs stood up over time under a variety of stresses that included, for example, increased sea surface temperatures.

Researchers attributed the reef's ability to recover to its relative isolation, limited human disturbance and relatively healthy fish populations, including young herbivorous fish that help keep competing seaweed at bay.

Other co-authors included Carrie Manfrino and Emma Camp, scientists at the Central Caribbean Marine Institute.

Journal Reference: Carrie Manfrino, Charles A. Jacoby, Emma Camp, Thomas K. Frazer. A Positive Trajectory for Corals at Little Cayman Island. PLoS ONE, 2013; 8 (10): e75432 DOI:

Photo courtesy of Neil van Niekerk. (Credit: University of Florida)

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