

Why is C-CAM involved in Reef Restoration

- 1. Corals are the building blocks of the reef upon which much of the marine biodiversity in the Portland Bight depends
- 2. The corals in the PBPA have declined significantly in the last few decades
- 3. C-CAM is committed to protect the marine resources for several reasons e.g.
 - Protect and improve the income of local fishers
 - Conserve important biodiversity
 - Food security and nutrition for Jamaica
 - Adaptation to Climate Change building climate resistant habitats

Introduction to Coral Restoration

Several methods of coral propagation have been tested but the focus has been on branching corals (Acroporids)

There are two types of propagation Asexual and Sexual

- Asexual existing coral colonies are broken into smaller fragments that are allowed to grow into a separate colony
- Sexual gametes are collected from spawning corals and combined to produce embryos which are grown to a stage (beyond settlement) where they can be transplanted.

Most restoration projects have focused on asexual propagation as it is much cheaper and far less technical.









The Coral Nursery







Coral trees to Grow Acroporids

These activities are about to get increased support

The Carsif Project

- This project will involve local fishers and will increase the number of coral trees to five.
- We hope to be able to engage fishers in a long term effort to assist C-CAM to maintain our coral nursery as well as the coral gardens we will establish
- We will also include Staghorn Coral
 A. palmata fragments and eventually other species on the new trees.

The JCP Project

- This project will further increase the number of coral trees and species in different locations.
- It will also increase the number of Biorock steel structures in the sanctuary.
- We will be testing the use of inexpensive (homemade) wind turbines to provide power for these new structures.
- Once power is available we will also include fragments of corals on the Biorock to improve the habitat quality for fish and increase to coral population.











