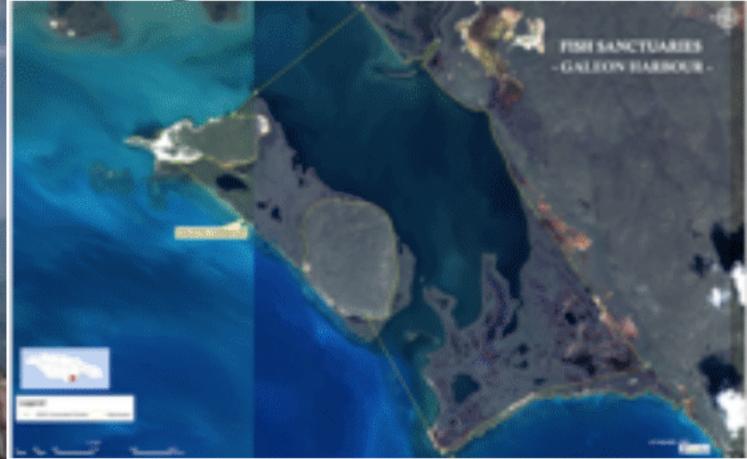
FISH SANCTUARIES

Saving Our Fish, Saving Our Fishers







Managing Fish Sanctuaries in the Portland Bight Protected Area Caribbean Coastal Area Management Foundation















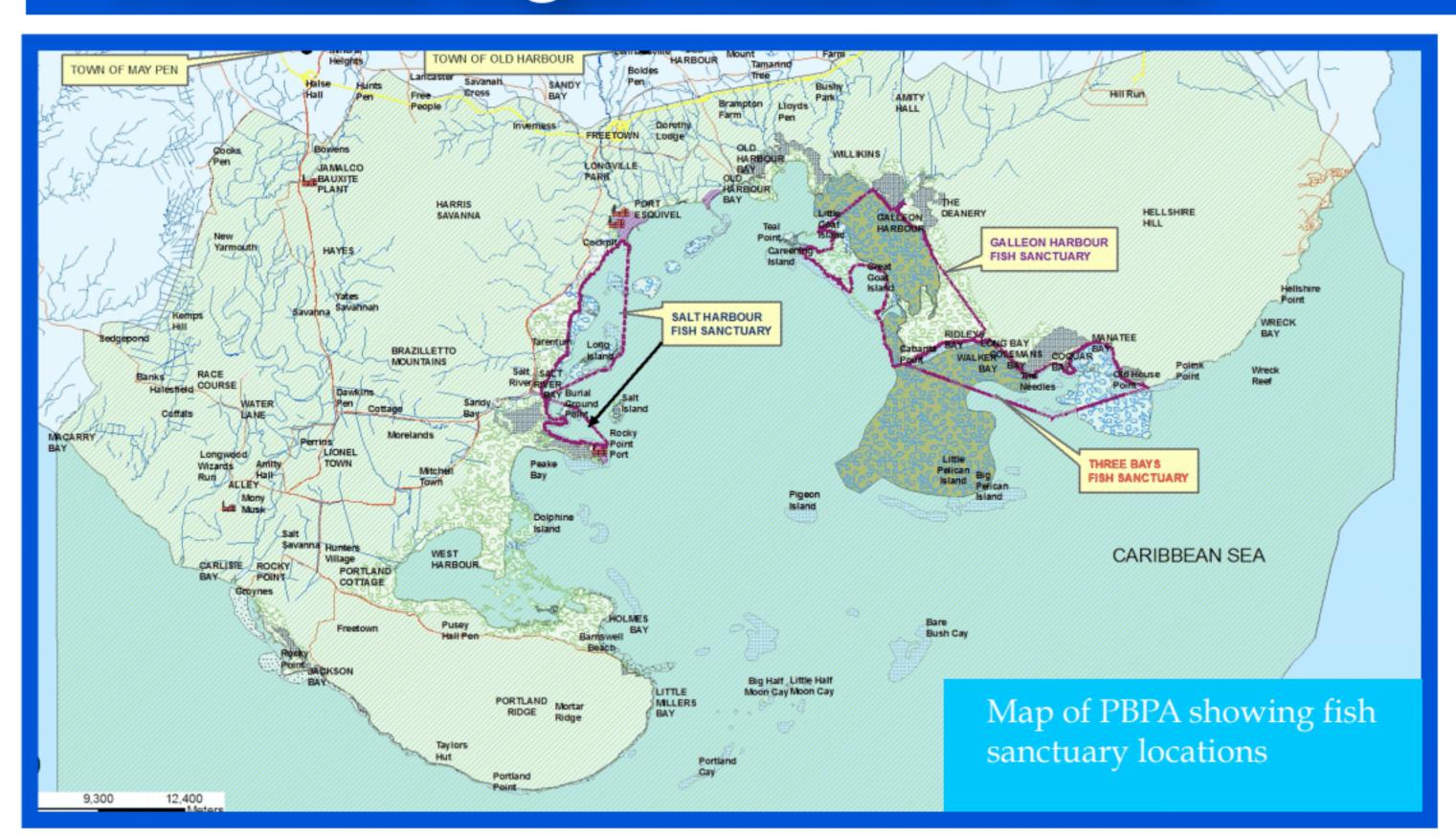
About C-CAM and this photo story

Caribbean Coastal Area Management
Foundation (C-CAM) is an environment and sustainable development non-government organisation (NGO) that manages the Portland Bight Protected Area (PBPA) (including three Fish Sanctuaries) on behalf of the Jamaican government.

This photo story explores how **C-CAM** is working to develop and implement **Fish**Sanctuaries in the PBPA, where fishing is the main source of income for most people.



Portland Bight Protected Area





The Portland Bight Protected Area (PBPA) is located in south central Jamaica.

- ★It includes both terrestrial and marine areas and extends to the edge of the island shelf.
- ★Its total area is 187,615 ha (724 sq.miles); 51,975 ha (200 sq. miles) of land and 135,640 ha (524 sq. miles) of marine space.
- ★The land area is bigger than Barbados.

The problems

Over the last 50 years the fisheries of the PBPA have declined due to overfishing, bad fishing practices, pollution and climate change.





Bycatch from bottom trawling for shrimp

The decline in the fish stocks has negatively impacted the livelihoods of the fishing communities of the Portland Bight Protected Area.

The solution: Engaging stakeholders in managing fisheries

Realising that fishers must be actively involved in management of the fishing resources on which they depend, C-CAM led the establishment of the **Portland Bight Fisheries**Management Council (PBFMC), which has been meeting for more than 20 years.

Every month representatives of fishers from all the fishing beaches in the PBPA come together with government agencies, experts and other stakeholders to share information, learn about fisheries management and discuss how to manage the fisheries in the best interest of all stakeholders.



What the stakeholders recommended

One of the first things that the PBFMC identified was the need to allow the fisheries to recover as quickly as possible by setting aside no-take zones or fish sanctuaries in important nursery and feeding habitats.

Baseline assessments were carried out so that the design could be based on the best available scientific and socioeconomic information. The members of the PBFMC worked together to identify the best areas and draw the boundaries.



Salt Harbour Fish Sanctuary and environs



from scientific studies.



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Funding and support

CORE FUNDING

Funding was received from the Government of Jamaica (Fisheries Management and Development Fund). This supports operating costs and salaries for enforcement.

PROJECT FUNDING

International donors provided funding for boats, equipment and special projects. They included CANARI, Seacology, CaribSave, and Caribbean Community Climate Change Centre with support from KfW German Development Bank and others.

Local donors included the Environmental Foundation of Jamaica, National Integrity Action, WINDALCO and many others.























Three Fish Sanctuaries were established



In 2009, three Fish Sanctuaries were declared in the PBPA as part of a new national system:

- **★**Three Bays;
- **★**Salt Harbour; and
- **★**Galleon Harbour.

C-CAM took on the task of managing them on behalf of the Government of Jamaica.

The next steps included management planning; boundary marking; an education and awareness campaign to encourage compliance; developing the capacity for enforcement; and monitoring.

These banners were used in the education campaign.



Participatory management planning

- ★Recognising the importance of getting stakeholder engagement from the beginning, C-CAM led a participatory management planning process for all three sanctuaries.
- ★This involved working together with stakeholders to collect the baseline data, determine priorities, and identify feasible strategies for implementation of the fish sanctuaries.
- ★The process was guided by the Open Standards for Conservation and used the *Miradi* programme.
- ★This resulted in the development of a management plan for each of the three sanctuaries. These plans guide the development and implementation of annual operation plans.



C-CAM staff member and a fisher talking on a fishing beach



C-CAM, Fisheries Division and a fisher discussing management plan

Enforcement in the Fish Sanctuaries

Some of the work C-CAM is doing:

- **★**Carries out regular patrols;
- ★Engages and trains enforcement officers;
- ★Develops supportive relationships with other enforcement agencies including the police through the PBPA Enforcement Council;
- ★Maintains a ranger station built using recycled shipping containers;
- ★Uses the government contribution to leverage international and local funding;
- ★Protects mangroves from illegal harvest;
- ★Rescues crocodiles and other protected wildlife.



Making, installing and maintaining marker buoys



Conservation Officers assist with monitoring fish populations



Ranger station was built from shipping containers

Fishers are employed as Conservation Officers



C-CAM employs fishers as Conservation Officers (COs) in the sanctuaries.

The COs carry out regular patrols and work with the support of the Marine Police to enforce environmental laws in the sanctuaries.

They also assist with monitoring and public education.

Education and awareness build compliance

CORAL REEFS - GARDENS OF THE SEA WHAT ARE THE MAIN **TYPES OF CORALS?** ey offer many different places (called ecological niches) for animals andplants to ive, breed, feed and shelter. Thousands of species of animals ncluding turtles, sh, shrimps, worms,

C-CAM's Conservation Officers, Community
Development Officers and the PBFMC work with
the stakeholders to build support for sustainable
management of the fisheries resources and the fish
habitats, including mangroves, coral reefs and
seagrass beds, as well as the species that inhabit
them, such as crocodiles and birds.



Research and monitoring



Community Monitors are trained to assist with beach monitoring

C-CAM staff and volunteer Community Monitors assess the status of the sanctuaries and surrounding areas and assist researchers with their work. This includes monitoring of fish populations, water quality, beach conditions, weather and other environmental conditions.



Students assist with monitoring wetland birds

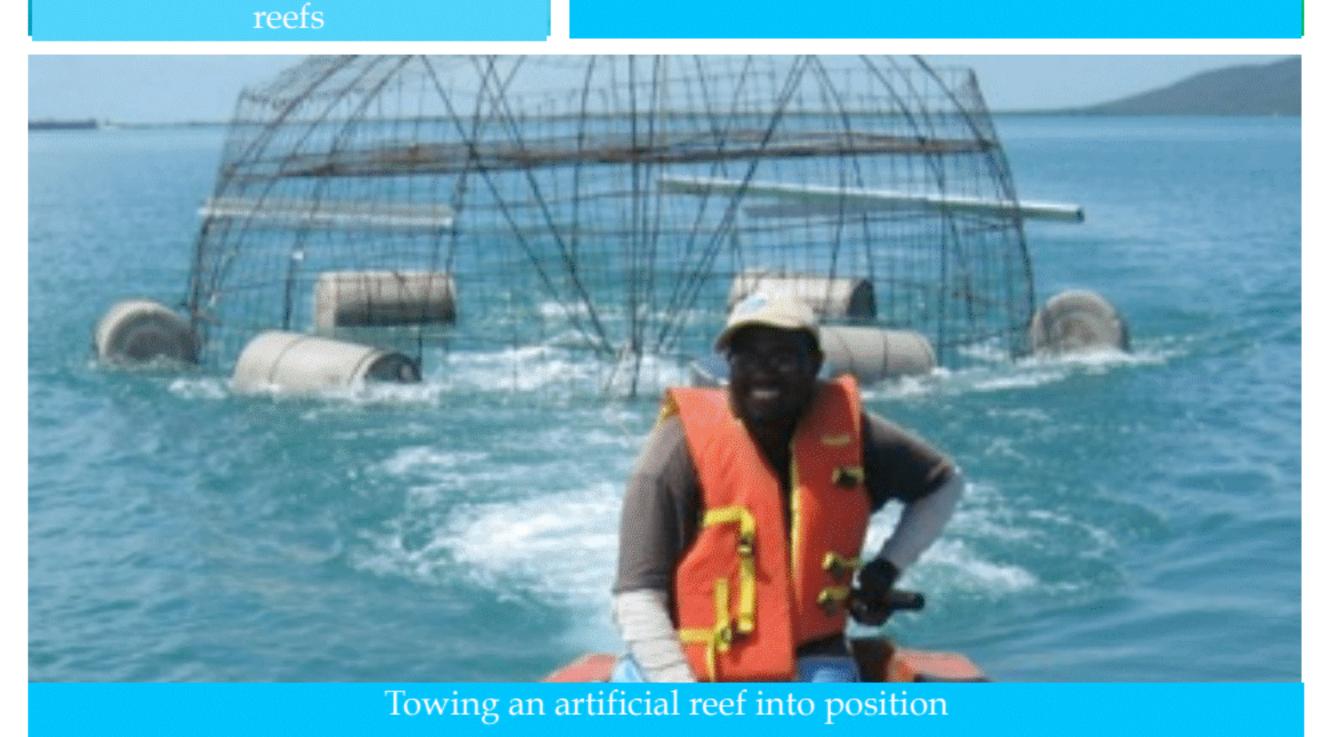
Habitat restoration

With the assistance of its partners, C-CAM is restoring wetlands and coral reefs, through replanting, artificial reefs and coral gardening. These measures actively support the recovery of fish and their habitats.





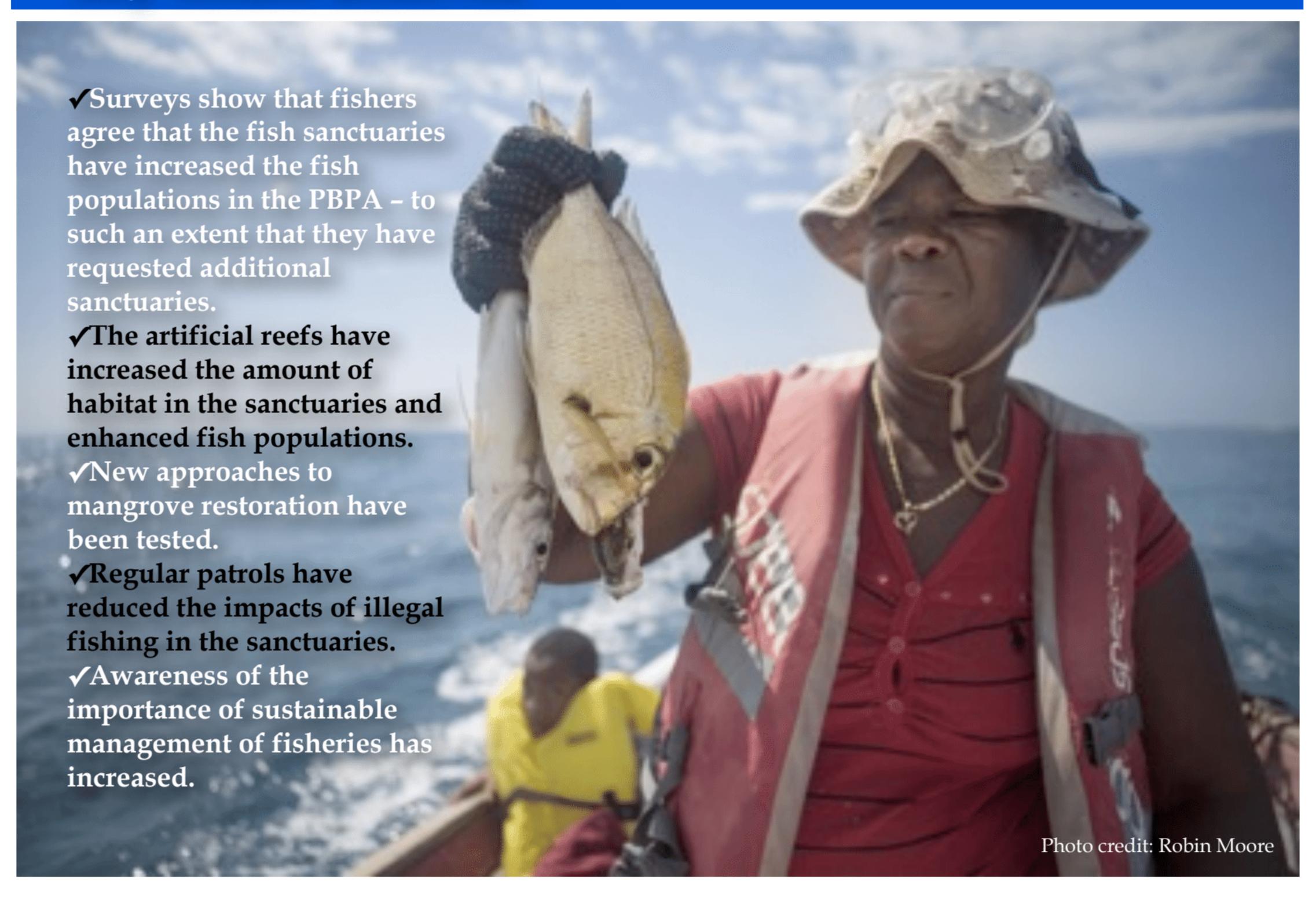
Artificial reefs increase fish habitat





Students planting mangroves on World Wetlands Day

Key results achieved



Lessons learned

Build and maintain strong partnerships from the beginning and throughout implementation:

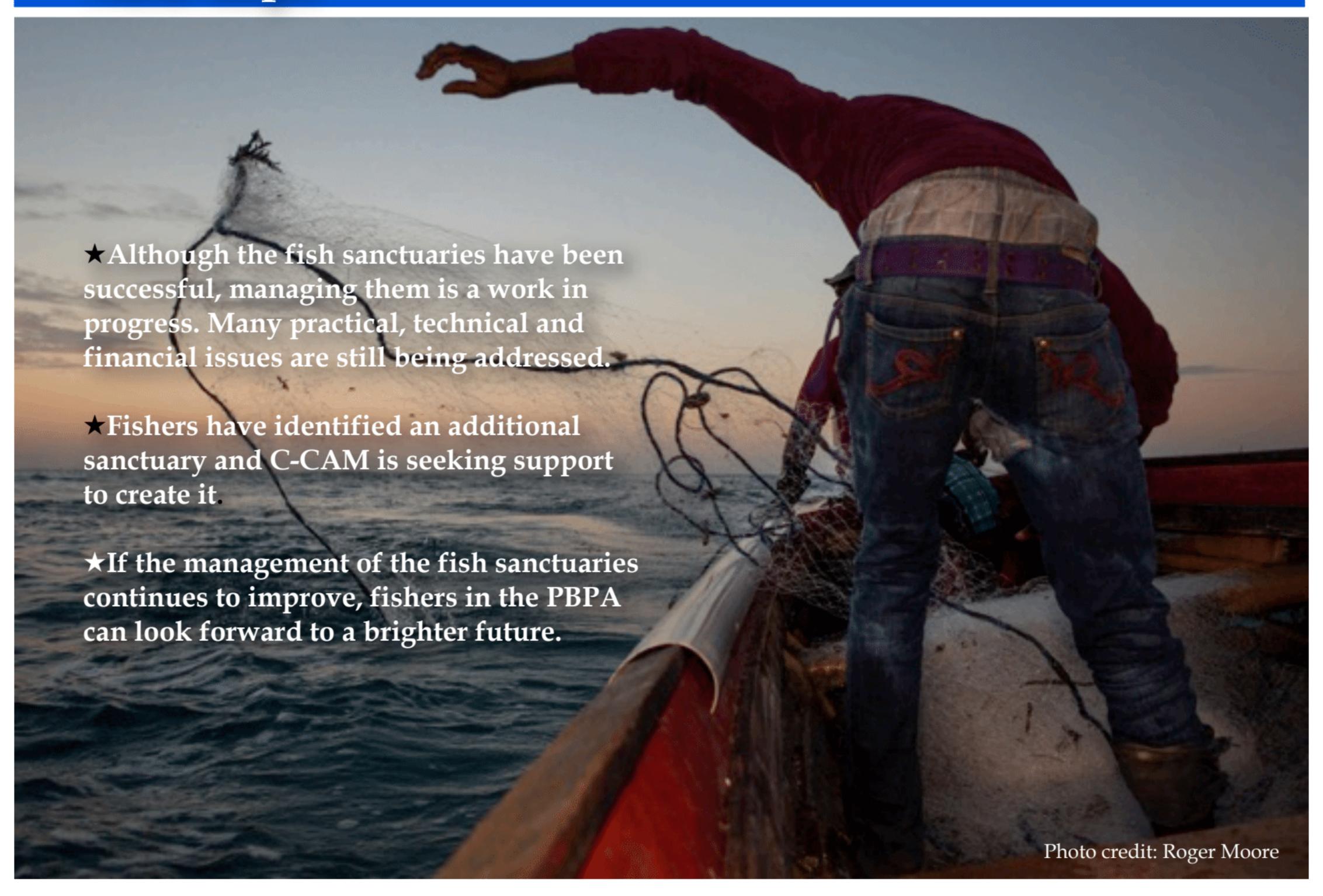


Successful fisher on Old Harbour Bay fishing beach

- ★ With government: It is important to collaborate actively with all the relevant government agencies to enable leveraging of resources and maximize capacity to carry out activities;
- ★With the communities: Involve fishers and other community members in sanctuary management through engagement in planning and decision-making, project development, awareness and education campaigns;
- ★With the private sector: Tourism and other business interests need to know about the fish sanctuaries so they can get involved, appreciate how they benefit from the sanctuaries, and provide support to the sanctuaries financially and otherwise.

Identify sources of sustainable financing: Sanctuaries need a medium to long term sustainable financing plan, including adequate secure government support for salaries and operating costs for continued implementation of activities, e.g. enforcement, and patrols. Support for core operations is hard to find from other funders.

Next steps



For further information



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