



BZ Marine Conservation and Climate Adaptation (P131408)

LATIN AMERICA AND CARIBBEAN | Belize | Environment & Natural Resources Global Practice |
 Recipient Executed Activities | Investment Project Financing | FY 2015 | Seq No: 7 | ARCHIVED on 06-Jun-2018 | ISR32469 |

Implementing Agencies: Protected Areas Conservation Trust (PACT), Ministry of Agriculture, Fisheries, Forestry, the Environment and Sustainable Development, Belize

Key Dates

Key Project Dates

Bank Approval Date:03-Mar-2015

Effectiveness Date:15-Jul-2015

Planned Mid Term Review Date:05-Feb-2018

Actual Mid-Term Review Date:03-Apr-2018

Original Closing Date:31-Mar-2020

Revised Closing Date:31-Mar-2020

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the proposed Project is to implement priority ecosystem-based marine conservation and climate adaptation measures to strengthen the climate resilience of the Belize Barrier Reef System.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Component 1. Improving the Protection Regime of Marine and Coastal Ecosystems:(Cost \$2.00 M)

Component 2. Promotion of Viable Alternative Livelihoods:(Cost \$2.45 M)

Component 3. Raising Awareness and Building Local Capacity:(Cost \$0.56 M)

Component 4. Project Management, Monitoring and Assessment:(Cost \$0.52 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Moderately Satisfactory	● Satisfactory
Overall Risk Rating	● Moderate	● Moderate



Implementation Status and Key Decisions

This ISR reports on the Mid Term Review (MTR) mission carried out on April 3-6, 2018 for the Marine Conservation and Climate Adaptation Project (MCCAP). The mission's main objective was to assess the project performance against original PDOs, and to propose necessary changes to achieve successful project implementation based on the recommendations of the independent evaluation.

The Marine Conservation and Climate Adaptation Project (MCCAP) continues to move in the right direction and show positive results. PDO1 is advanced and has already achieved its target. There is strong country ownership of the project and effective oversight in place for the project activities. The Project Implementing Unit, the Technical Advisory Committee (TAC) and Project Steering Committee (PSC) have been instrumental in moving project implementation forward. MCCAP has partnered with various stakeholders on the ground in the implementation of the activities. This partnership is one of the strengths of the project, which contributes to building local capacity and supporting the sustainability of the marine ecosystems. Project has disbursed 45% of its total funds (\$5.53 million).

COMPONENT 1: IMPROVING THE PROTECTION REGIME OF MARINE AND COASTAL ECOSYSTEMS (US\$2 Million)

This component has delivered and exceeded the outcome indicators of expanding and securing MPAs from 13% to 20.2% of territorial waters (405,512.67 hectares), and marine replenishment (no-take zones) from approximately 2% to 3.1% (58,699.38 hectares). In efforts to promote effective management of selected MPAs, including replenishment zones, the project has supported joint patrols at Corozal Bay Wildlife Sanctuary, Turneffe Atoll Marine Reserve and South Water Caye Marine Reserve (SWCMR), increasing enforcement presence in the three MPAs. MCCAP has served as a catalyst to integrate efforts by the Fisheries Department, Coast Guard, NGOs, marine reserve staff, and the Forest Department to standardize enforcement operations of the targeted MPAs, while providing resources and skilled staff to the Fisheries Department and MPA co-managers to ensure effective surveillance, monitoring and enforcement. Biological assessments have been conducted for the Spiny Lobster and for the Queen Conch which will provide recommendations for the managed access zones. Re-population of coral reefs in replenishment zones has shown progress, with 6 coral nurseries in place at SWCMR and 1 out-planting site; and 6 nurseries in TAMR. The project has also delivered on the draft mangrove regulations, and draft revision of the Coastal Zone Management (CZM) Act and Regulations. This component also supported the provision of equipment and personnel for CZM Authority and Institute (CZMAI) Water Quality Monitoring, and acquired tools to assist in the compilation and analysis of spatial and temporal data of human use of coastal and marine resources to monitor compliance with development guidelines of the Coastal Zone Management Plan.

COMPONENT 2: PROMOTION OF VIABLE ALTERNATIVE LIVELIHOODS (US\$2.45 Million)

Community mobilization for the development of alternative livelihoods is ongoing. The Belize Institute for Technical and Vocational Education (ITVET) was selected to deliver technical and vocational training for community members. Four courses (food preparation, cosmetology, electrical and computer repairs) from the needs assessment list have been commissioned through ITVET Corozal and ITVET Orange Walk. A total of 82 trainees have enrolled, of which 58% women. In view of the successful delivery of these activities, the skill training courses will be offered to other regions in the country.

In terms of development of subprojects, Praxi 5 has been contracted as the consulting firm for MCCAP sub-project development expert services and NEXTERA consulting firm as the Environmental Technical Experts services. These companies are in the process of delivering full proposals for subprojects along with safeguard documents. An action plan was agreed at the Midterm review to expedite the delivery of this component.

COMPONENT 3: RAISING AWARENESS AND BUILDING LOCAL CAPACITY (US\$0.56 Million)

This component is well on track in terms of achieving its outcome indicator. The component has delivered on the development of a Knowledge, Attitude and Practice (KAP) survey in the 12 targeted communities, and a Communication Plan is under implementation. Trainings have been conducted to increase knowledge of climate change impacts and ways in which communities can change behavior in order to build resilience. MCCAP has also been instrumental in supporting environmental clubs and advocacy for community service, as was evidenced in YouTube video 'Sarteneja youth empowerment clean-up campaign 2017'. MCCAP also engaged the Caribbean Climate Change Centre (CCCCC) to deliver a training of trainers' workshop on integrating Climate Change adaptation into planning processes with specific focus on the fisheries sector. MCCAP also developed and implemented the First Women in Fisheries Forum, with the participation of over 51 women. The Forum outlined the need to address working conditions, communicating fisheries issues to women, and ethnic and cultural roles of gender in Belizean society. A south-south knowledge exchange between Belize and Morocco in the areas of integrated coastal zone management was also delivered.

COMPONENT 4: PROJECT MANAGEMENT, MONITORING, AND ASSESSMENT (US\$0.52 Million)

The PIU is in place and performing well. It consists of a Project Coordinator (hired March 2015); Administrative Officer (hired April 2016); and a Senior Technical Officer (hired October 2016). These three employees make up the full complement of staff within the Project Interagency Group (PIAG). The project Procurement Officer stationed at PACT (the National Implementing Entity - NIE) and fiduciary manager were available to provide fiduciary services from the onset. The World Bank facilitated efforts to build FM and procurement capacity early in project implementation through WB training offered to the Project Coordinator and Procurement Officer. At the time of the Midterm review, at least 8 PSC meetings and 10 TAC meetings had been



held to address project operational needs from both the technical and policy oversight perspectives.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Moderate	● Moderate
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Moderate	● Moderate
Environment and Social	--	● Moderate	● Moderate
Stakeholders	--	● Moderate	● Moderate
Other	--	● Moderate	● Moderate
Overall	--	● Moderate	● Moderate

Results

Project Development Objective Indicators

► Marine areas brought under biodiversity protection (ha) (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	248,810.00	--	405,512.67	386,612.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Comments

The project has delivered and exceeded the Outcome Indicators of expanding and securing MPAs from 13% to 20.2% of territorial waters (405,512.67 hectares), and marine replenishment (no-take zones) from approximately 2% to 3.1% (58,699.38 hectares).

▲ Replenishment Zones (no take) brought under biodiversity protection (Hectare(Ha), Custom Supplement)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	38,278.00	58,699.38	58,699.38	59,331.00

► Coastline and freshwater under biodiversity protection (km) (Kilometers, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	386.00	386.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Comments

The current articulation of Outcome 2 makes it a complex long-term process and a deliverable to be achieved beyond the current project cycle. The project is currently conducting analysis of spatial and temporal data of human use of coastal and marine resources in order to monitor compliance with development guidelines of the Integrated Coastal Zone Management Plan-ICZMP (outcome 2). Data processing and final maps were completed for Caye Caulker (40%) and 35% completed for San Pedro, and to a smaller extent for Belize City. This data was to be produced for the coast of Belize (9 planning regions) in Year 1, as the baseline for measuring progress in future years. At MTR, at least 10% of coastal developments would be adhering to the development guidelines set by the ICZMP; however, this cannot be measured and demonstrated quantitatively, since the necessary baseline against which to measure has not been established. This indicator will be adjusted to include mangroves coverage in 3 regions (Revised Indicator - *Mangroves in coastal region brought under improved regulations measured by mangroves coverage in three planning regions*).

► Direct project beneficiaries (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	59.00	2,500.00
Date	10-Nov-2014	10-Nov-2017	07-May-2018	31-Jan-2020

Comments

The project has adopted a strategy which seeks to diversify the household livelihood by maximizing income earning potential of adults in the household, and considering the entire fishing household (mother and/or father, children) as the targeted beneficiaries, while encouraging the participation of the entire household in the identification and preparation of project concepts to be considered for support by MCCAP. This Outcome is experiencing delays due to the slow implementation of Component 2 (Alternative Livelihoods), and given the limited time remaining, the mission recommended to focus on sub-projects that can be realistically completed by March 2020 (closing date of the project). It was agreed that the total number of sub projects would be reduced from 20 to 10; to allow for effective and full implementation. Scaling down the number of subprojects, will result in a lower target for this indicator. The MTR agreed to adjust the target to 1500 beneficiaries, and no change for the percentage of women reached (30%).



▲ Female beneficiaries (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	55.00	30.00

► Change of attitude and/or behavior of targeted beneficiaries (%) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	17.00	75.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Overall Comments

Outcome 4 is on track and progressing well. The KAP Survey was completed on time as required and is programmed to be repeated in Year 5. The KAP Survey has established the baseline and will measure progress towards this indicator. Public Awareness has been embraced at the level of schools and relevant partner institutions, with fishers in 12 fishing communities targeted by the approved Communication Plan. Guided by the baseline information reported in the KAP Survey for 'Level of knowledge on Climate Change' and 'Level of positive attitude towards Climate Change', the target of achieving 75% change of attitude is extremely ambitious from a baseline of 17%; and revision of the target is proposed at 60%. A slight change on the indicator is also proposed "Change of **knowledge** (instead of attitude) and/or behavior of targeted beneficiaries (%)".

Intermediate Results Indicators



▶ 1.1 (a) The target MPA (TAMR) are effectively managed as recorded by the Management Effectiveness Tracking Tool (METT) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.69	3.50
Date	10-Nov-2014	10-Nov-2017	07-May-2018	31-Jan-2020

Comments

In terms of MPA Management Effectiveness, there are uncertainties related to the methodology, source, reliability and confidence of the baseline measurements listed in the project's Results Framework. The baseline will be adjusted based on METT results obtained in 2015 for CBWS and SWCMR using a methodology and scoring system adopted by the project, and which is easily replicable. The 2015 data score would become the new baseline for CBWS (0.65 of 1) and SWCMR (0.62 of 1), and TAMR (0.69 of 1). This score would then be reassessed in Year 5 of the project, with a recommended target of 0.8 of 1 for all three protected areas.

▲ 1.1 (b) The target MPA (CBWS) are effectively managed as recorded by the Management Effectiveness Tracking Tool (METT) (Number, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.16	2.16	0.65	3.50

▲ 1.1 (c) The target MPA (SWCMR) are effectively managed as recorded by the Management Effectiveness Tracking Tool (METT) (Number, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.65	2.65	0.62	3.50



► 1.2 At least 3 restored coral sites, with resilient varieties grown in coral nurseries, within TAMR and SWCMR (with each site measuring 300 m²); (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	1.00	6.00
Date	10-Nov-2014	10-Nov-2017	07-May-2018	31-Jan-2020

Comments

Re-population of coral reefs in replenishment zones is progressing well, with 6 coral nurseries in place at SWCMR and 1 out-planting site; and 6 nurseries in TAMR.

► 1.3 Coastal developments adhering to the development guidelines set by the ICZM Plan (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	75.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Comments

Midterm review agreed that indicator is too broad. Baseline being developed and expected to be completed by March 2019 for 3 regions. Adjustment to this indicator is needed. The project is currently conducting analysis of spatial and temporal data of human use of coastal and marine resources in order to monitor compliance with development guidelines of the Integrated Coastal Zone Management Plan-ICZMP (outcome 2). Data processing and final maps were completed for Caye Caulker (40%) and 35% completed for San Pedro, and to a smaller extent for Belize City. This data was to be produced for the coast of Belize (9 planning regions) in Year 1, as the baseline for measuring progress in future years. Due to the delays, this indicator will be adjusted to "Baseline for the monitoring of adherence to ICZM Plan guidelines established in 3 regions (in northern, central, southern Belize)".

► 2.1 Alternative livelihoods Sub-projects developed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	20.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Comments

A total of 8 sub-project concepts were identified by the PIU by MTR. The MTR agreed on an action plan to expedite the delivery of the full proposals/business plans and safeguard documents. Adjustment on target is needed given the limited time remaining for the project. Target



will be changed to 10 projects instead of 20 projects.

▶ 2.2 (a) Persons participating in training based on training needs assessment and % of trainees are women; (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	82.00	2,000.00
Date	10-Nov-2014	--	07-May-2018	31-Jan-2020

Comments

A needs assessment for skills training was conducted by the project for targeted communities in consultation with community leaders, in support of the transition to alternative livelihoods. Under a contract arrangement with the Belize Institute for Technical and Vocational Education (ITVET) in Corozal and Orange Walk, four courses from the needs assessment list were offered to trainees from Consejo, Sarteneja, Chunox, and Copper Bank: food preparation, cosmetology, electrical and computer repairs. These trainings were well received by the communities, and in view of the successful delivery of these activities, the skill training will be offered to other regions in the country. Trainings obtained through the subprojects, will complement this indicator. Due to the delay in the implementation of subprojects, the Midterm Review discussed the need to adjust the target to 500.

▲ 2.2 (b) % of trainees are women (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	58.00	50.00	30.00



▶ 3.1 Behavior change communication (BCC) campaigns conducted at all the target fishing communities (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	3.00	12.00
Date	10-Nov-2014	10-Nov-2017	07-May-2018	31-Jan-2020

Comments

Communication campaign is under implementation and is progressing well. Campaign activities have reached 3 communities and is expected to reach the other communities in the second phase of the project.

Overall Comments

Data on Financial Performance

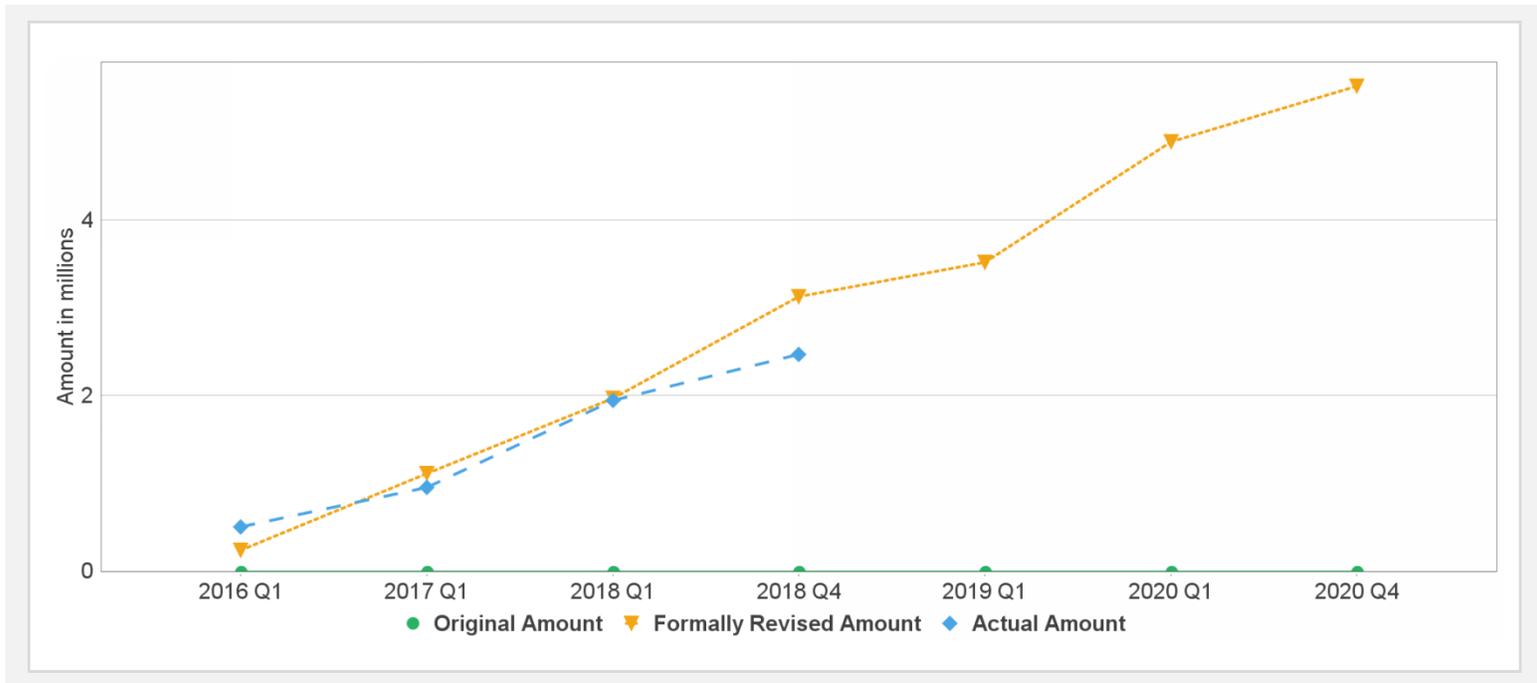
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P131408	TF-18449	Effective	USD	5.53	5.53	0.00	2.47	3.06	 45%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P131408	TF-18449	Effective	03-Mar-2015	03-Jun-2015	15-Jul-2015	31-Mar-2020	31-Mar-2020

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.