

MESOAMERICAN REEF FUND

ANNUAL TECHNICAL REPORT

Title Page

Project Number	TIDE-OAKMARFUND 2017-19-1-2
Project name	Strengthening financial sustainability initiatives to support management of Port Honduras Marine Reserve (PHMR)
Grantee:	Toledo Institute for Development and Environment
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Period covered in the report and date of presentation	October 2017 to September 30, 2018

1. Executive summary to date: briefly describe activities and results to date.
Complete executive summary for final report.

TIDE received funds from OAK MAR Fund for project implementation that commenced in October of 2017. This annual report focuses on the accomplishments for the period October 2017 to September 30 2018. The achievement was in line with the four project objectives.

Objective # 1 commercially important fisheries, including conch, lobster, sea cucumber, and at least 3 finfish species monitored and their habitats mapped to inform Adaptive Management Framework (AMF). During the period October 2017 to September 2018 eight monitoring dives were conducted; two dive trips for each commercial species; namely, sea cucumber, two for conch, two for lobster and two for coral monitoring on assigned transects. A total of 60 permanent transects are now established for TIDE Synoptic Monitoring Program.

Objective # 2 required TIDE to increase surveillance and enforcement to reduce pressures on fisheries in PHMR. Ranger staff continued regular patrols within the reserve using the Spatial Monitoring and Reporting Tools (SMART) during patrols for improved monitoring and reporting. Accomplishments were also made under Objective # 3: strengthen TIDE's financial sustainability mechanisms through implementation of alternative income generating programs. All activities under this objective were completed. The infrastructural renovation on TIDE building in Big Falls and upgrades on the road access have change the appearance of the facility. To date the Big Falls facility has hosted five overnight groups through TIDE Tours since its upgrade; resulting in income for TIDE Tours. The latter period of the year saw the completion of the first cabana on TIDE Private Protected Lands. Safety equipment such as stretchers, leg braces, neck braces, etc was purchased and dispatched to the protected areas. Activities under objective number three were fully completed.

Objective #4 included development and implementation of an effective communication strategy in order to communicate TIDE's impact to stakeholders, donors, and partners. Ms. Sabrina Myvette was hired as TIDE communication officer on July 5th 2017. Most of the activities that were delayed in the first period of the

project implementation was fast forward and accomplished. Minor delay in the implementation of the design and launch individual donor program. The celebration for launch and the familiarization tour for donors were planned to compliment activities of TIDE conservation gala/annual fish festival schedule for the second weekend of October 2018.

Note that the budget disbursement schedule was used for implementation of activities. A complete breakdown of progress made on each Activity under the four objectives are describe in section four of this report. The project development table also provide additional information on project's milestones activities deliverables and percentage completed

2. Copy the objectives of the project, as established in the approved proposal.

The overall project goals as established in the approved proposal is to strengthen the management of the Port Honduras Marine Reserve through targeted research, enforcement, and implementation of sustainable financial mechanisms.

Specific Objectives are:

Objective 1: Monitor at least 3 finfish species as well as commercially important fisheries, conch, lobster, sea cucumber and map their habitats to inform Adaptive Management Framework (AMF)

Objective 2 To reduce Fishing pressure through increased surveillance and enforcement in PHMR.

Objective 3: To strength TIDE's financial sustainability mechanisms through implementation of alternative income generating programs.

Objective 4 To develop and implemented an Effective communication strategy in order to communicate TIDE's impact to stakeholders, donors, and partners.

4. Project progress:

- **Indicate if the originally planned methodology still applies or if it has been modified. In case of the latter, explain why and what the changes are.**

The original planned methodology still applies and has not changed during the past six months of project implementation. Majority of the project activities are being implemented

as scheduled. As mentioned, TIDE is presently following the project budget disbursement schedule to implement activities. During project implementation, we had two reallocation of project activities requested and approved. We requested reallocation funds to meet additional cost to attend Educational Travel Conference in Bermuda and to assist with urgent repairs of the docking facility on Abalone Caye. (See annex I)

Indicate the advance of the project in relation to the original timetable and explain the reason for any delays there may have been. List the results/advances/outcomes to date by planned activity.

Objective #1

Activity 1.1 Complete Zone 2, 3, and 4 of the habitat maps for the PHMR by dives.

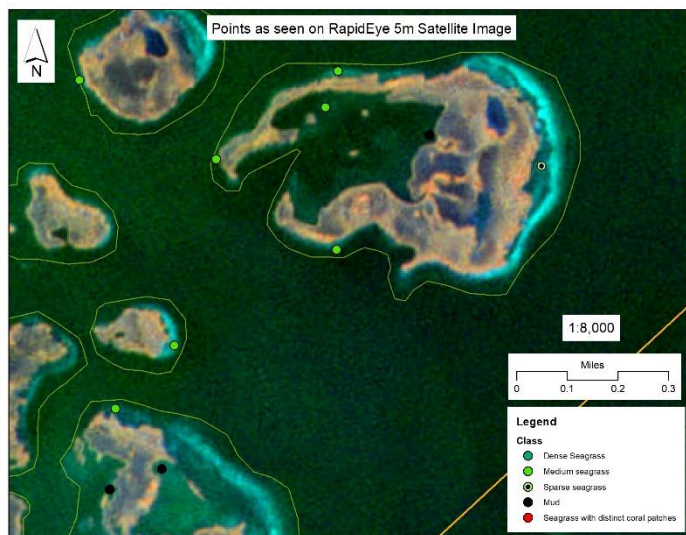
Is to complete Zone 2, 3 and 4 of the habitat maps for the PHMR. A map was developed for PHMR in a previous study which divided PHMR into 5 Zones. Three habitat zones were completed (see annex II). Result of the habitat mapping were compiled in a 2014 - 2016 report (Separate attachment)

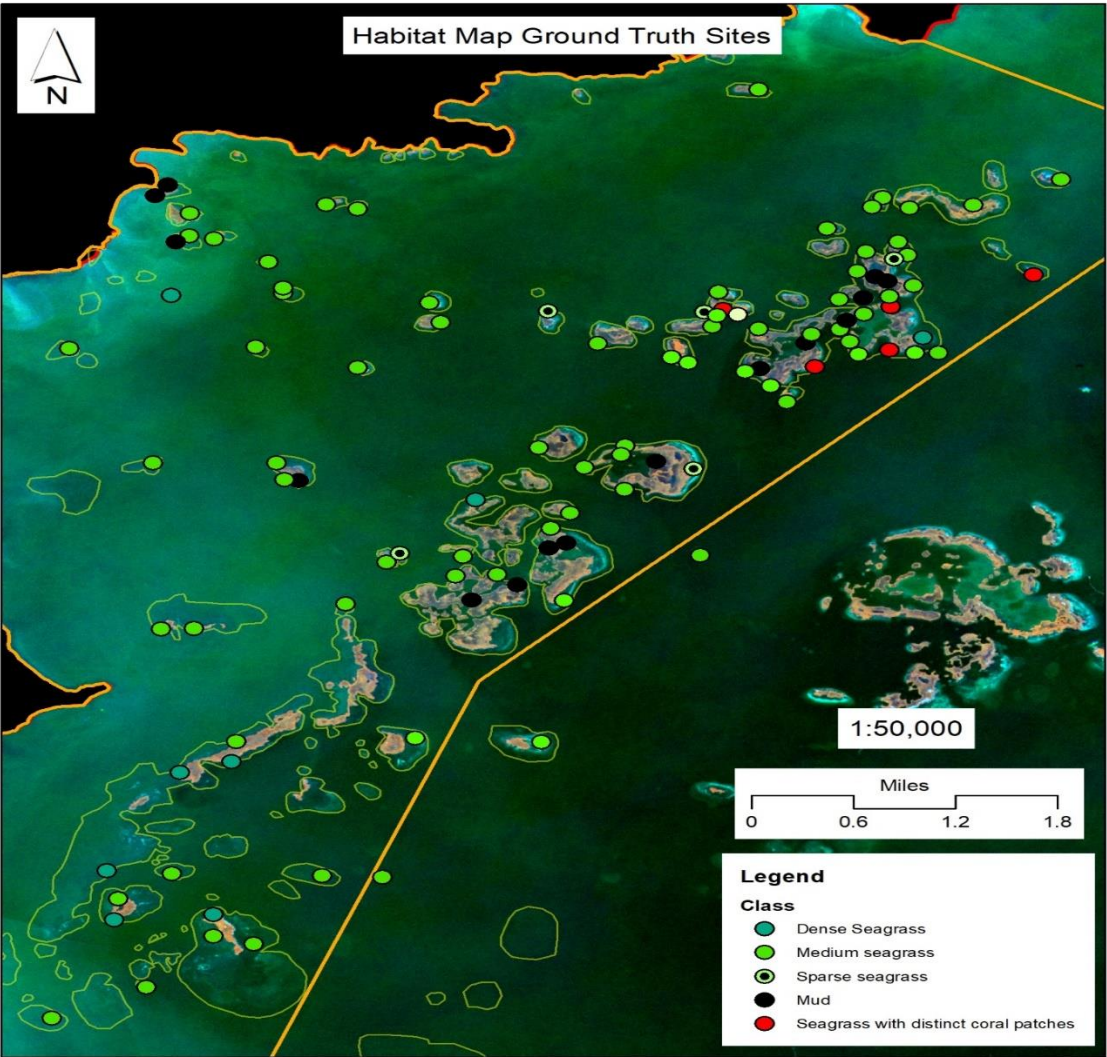
Activity 1.2 Ground Truthing of points from different zones of the PHMR:

Ground truthing was conducted by dives to collect actual habitat data which is used to verify what is produced in the remote sensing software (GIS Work). Dives were conducted in November of 2016. There was a total of 12,960 points sampled using the point intercept method. This entailed traversing a 30 meter transect, and at every .25 meters a sample was taken of what fell directly below the transect. Examples identified included, sponges, hard corals, sand, mud, turtle seagrass, manatee seagrass and algae (dictyota, brown macroalgae, baresub).

Using the percent composition by transect, a general classification was given to the habitat type using Mumby and Harbourne(1998) classification scheme.

The pictures below show the transects as seen on different satellite imagery. The larger image shows all Transects sampled by Dive in PHMR Zone 1.





108 sites were surveyed with 9 sites falling into the classification of Dense Seagrass (Seagrass greater than 70%). Seventy-one (71) sites fell into the classification of Medium Seagrass (30 – 70% Seagrass), seven (7) sites had seagrass with distinct coral patches (>5% Coral coverage). Six (6) sites contained sparse seagrass (10 – 30% seagrass).

For this habitat mapping classification, other sites will be manually entered such as Sand Bottom Substrate, Mangrove Classes (on land), Swamp Mud (on land), Beach Sand (on land) and Algae classes. These classes were identified in the field but were not verified in the field due to time constraints and other limitations of the study. GPS points were taken for these classes when identified in the field.

Activity 1.3 Collect data to complete 8 biodiversity monitoring dives from commercial species (lobster, conch, sea cucumber and 5 fin fish species). Eight trips were conducted to monitor the commercial species. The dives focused on biodiversity monitoring of commercial species lobster, conch and sea cucumber. Dives were conducted on the following dates

LOBSTER

OPEN SEASON: June 15

CLOSE SEASON: February 15

Date research were conducted - February 14th – 18th and June 9th -13th

Methodology: Lobster monitoring uses the timed swim method. Two divers search for 30 minutes, counted and measured all lobsters found while swimming.

A total of 52 lobsters were recorded, with 23 being found in the replenishment zone, 21 in the general use zone, and 8 found out of the reserve. Upon correct identification of the species, an estimate of carapace length was recorded and the sex determined. A note of the presence of eggs and tar spot was also taken. For the first period of reporting, (post season) it should be noted that weather conditions were favorable so the likelihood of finding lobster was high which could be seen in the numbers recorded. Data analysis was completed for only one specie (Annex III).

CONCH

OPEN SEASON: October 1st

CLOSE SEASON: June 30th

Date research were conducted Conch - June 30th – July 4th and September 13th -17th

Five transects to monitor conch were established. These five transects measured dimension, 50-meters X 4 meters. MBRS Synoptic Monitoring Program (SMP) methodology was used. Data collected will be analyze next year.

SEA CUCUMBER

OPEN SEASON: N/A

CLOSE SEASON: N/A

Date research were conducted: Sea Cucumber July 16th – 20th and November 6th – 10th

Methodology: The moratorium on sea cucumber is still in place; however, regular monitoring occurred. Sea Cucumber uses the radar sweep methodology. Two transects are demarcated with a radius of 11.28 meters and the area is search. Data collected will be analyze next year

CORAL

OPEN SEASON: N/A

CLOSE SEASON: N/A

Date research were conducted: Coral Reef - Fish July 25th -29th

Methodology: Line point intercept method was use for coral monitoring. A total of six transects were established. These transect measured 30 meters long and 2 meters wide. Benthic data was collected within the transects.

Dives were completed using the same transect to gather data on coral health. Information on coral, height, length and diameter were collected. Information was also gathered on evidence of disease and bleaching.

FIN FISH

OPEN SEASON: N/A

CLOSE SEASON: N/A

Date research were conducted: Fish July 25th -29th and

Methodology: For finfish monitoring the methodology used are belt transect and rover diver.

Eight belt transects were established. These transect measuring 30 meters long and 4 meters wide. Two meters on both sides of the tape were surveyed. Adults and juvenile fish were counted, identified and their sizes estimated using a measuring device used by divers for such purposes.

The rover diver method includes dives for a duration of 30 minutes. During these dives fish species and abundance are recorded.

The science director was schedule to start working on October 30th 2018. When on board she will be completing the analysis of data gathered for commercial species and coral for the 2017 and 2018 monitoring cycle.

Activity 1.4 Organize 4 Managed Access Forums: TIDE conducts at least four fisher forums per year.

During this reporting period two forums were held. One in November of 2017 and the other on May 28th 2018. The primary objective of the forum was to give updates in regards to new managed access regulations, updates on projects in PHMR and to address concerns from fishers. Other objectives included giving a summary of the Market Catch Data being collected at the fish market and to summarize catch logbook data to the fishers. Over 35 participants including representatives from the Fisheries Department, TIDE and the villages of Monkey River, Punta Negra, Punta Gorda and Barranco Village attended the forums. (Minutes of meeting Annex IV).

For objective #2: To increased surveillance and enforcement to reduce pressures on fisheries in PHMR. Ranger's staff continued with regular daily patrols during the report period.

Three arrests were made during the report period. Other confrontation involved minor offenses which required only verbal warning. The preceding involved two foreign fishermen engaged in commercial fishing with the use of restricted gear (gill net), no fisherfolk license, no boat license and without distinguishing boat mark. They were each charged \$3,520 and their engine and equipment in the vessels were forfeited to the government of Belize.

In the second instance, two fishermen were found engaging in commercial fishing with the use of restricted gear (gill net) no fisherfolk license, no boat license, possession of illegal sports fish bonefish and tarpon. They were each charged \$2,625.00 and their vessel along with their engine and equipment was forfeited to the Government of Belize. Third were two fishers found engaged in commercial fishing with the use of restricted gear (gill net), engaged in commercial fishing within a conservation zone (South Snake Caye), no fisher folk license and no boat license. They were each charged \$4,025.00 and their vessel along with the engine and equipment was forfeited to the Government of Belize.

Activity 2.1 Complete at least 600 patrols for the project cycle. For the period October 2017 to September 2018 a total of 397 documented patrols were conduct in the reserve. All patrols are conducted in collaboration with Belize Coast Guard. Four soldiers from the Belize Coast Guard are permanently stationed with the TIDE rangers, so patrols are always conducted with at least 2 soldiers on the vessel. During this period, no joint patrols were conducted with other agencies. The table below summarizes the number of monthly patrols and time spent on patrols conducted in PHMR for the reporting period.

Patrol Details for Oct- 2017 and Sept 15 th 2018				
Months	No. of Patrols	Total Hours Allocated	Day Patrols	Night Patrols
October	37	143	30	7
November	49	194	39	10
December	45	139	37	8

January	33	115	27	6
February	39	121	32	7
March	27	131	25	2
April	28	133	25	3
May	36	178.5	26	10
June	30	131.75	26	4
July	28	125.5	26	2
August	28	139.5	20	8
September	17	82	14	3
TOTAL	397	1633.3	327	70

Activity 2.2 Purchase equipment required for used of SMART technology.

Other accomplishment includes the purchase equipment and materials required for patrols (Annex V). Ranger staff received weekly food and cleaning supplies for their ranger station. Fuel containers were purchased and fuel was provided for weekly patrols. A total of 5 flashlights for night patrols, eight fuel containers and three sets of uniforms for five ranger staff. Items listed above were purchased with funding from OAK Foundation. Items purchased by European Union funds are annexed.

Activity 2.3 Collect and analyze SMART data for the PHMR.

TIDE manages three protected area in Toledo. Within these sites are 11 park rangers. TIDE ranger team has completed four sessions of SMART Training during the past two years. The last training was completed from the 9-11 December 2017.

The objectives of the training were:

1. To provide participants with an overview of SMART and CyberTracker software, and the benefits of their application.
2. To introduce participants to the CyberTracker app and how to use it to gather patrol data.
3. With participants, review data model and seek feedback for customization towards organization needs.
4. To train participants to login to SMART and upload collected Data.

5. To conduct scenario based practical exercise for participants better understanding of concepts.
6. Train the P.A. managers to independently administer SMART and troubleshoot any SMART issues.
7. Navigate comfortably through the software and hardware.
8. Create queries and run reports.

Training were held on the following dates:

26th July April 2017

15-17 November 2017

7-9 December 2017

9-11 December 2017

During the past year reports have been generated using the SMART technology. (sample report Annex VI)

Objective 3, to strengthen TIDE's financial sustainability mechanisms through implementation of alternative income generating programs. For the period of this report, 99% of activities under objective #3 were completed.

Activity 3.1 Bird identification and wildlife tracking course completed for 10 tour guides, including 4 TIDE tour guides and 6 community guides. This activity was to train at least 10 tour guides in Bird identification and Wildlife tracking. This activity was scheduled for April 9th -14th 2018. Mr. Lee Burton a bird language leader instructor of Texas Master Naturalist and Casey McFarland wildlife track & sign instructor were hired to deliver the course. The first 4 days of training was held at Cockscomb Basin Wildlife Sanctuary. The remaining days of the training was held in Payne's Creek National Park and at TIDE Private Protected Lands. TIDE sponsored 5 staff for the training. The additional spaces were tour guide from Toledo District.

One setback was the timing of the training. The training was conducted at the right time (peak of the bird season) but also the peak of the tourism season; during the busy schedule of tour guides and operators. A total of seven participants were involved in the training two tour guides and five TIDE staff. The training ended April 14th 2018.

Activity 3.2 Upgrade accommodation facility and compound at TIDE's property in Big Falls so that it can be marketed on Airbnb. This activity involved the upgrade of accommodation facility and compound at TIDE's property in Big Falls so that it can be marketed on Airbnb. This included 5 sub activities for the specific site.

- 1. Activity 3.2.1 Visitor accommodation compound in Big Falls is properly landscaped and maintained.** Landscaping activities included the removal of top soil and leveling ground below the building. The area was then covered with quarter inch crush rocks. Drainage of the area was improved and a small spice garden was built. A flower and ornamental area was installed using recycle tires (Annex VII).

These investments and upgrade were to improve the facility to keep existing customers and also to tap into new markets. TIDE's property in Big Falls is a 4-bedrooms 2-bathrooms structure with great potential to become listed on Airbnb as a destination for birders and nature-based tourism, but it needed to meet certain standards in order to be listed. The investment included the upgrade of the structure and the compound around it by properly landscaping the area, repairing 2 bathrooms including sink and sewerage, upgrading the access road to the site and procuring indoor and outdoor furniture.

- 2. Activity 3.2.2 Renovate downstairs bathroom and bedroom at Big Falls accommodation site.** This activity entailed a complete renovation of an existing room below the house at Big Falls. This renovation of the room included reinstalling new electrical switches, lights and outlets, and plumbing for bathroom and kitchen. The ceiling and walls were repainted. New entrance and bathroom door were installed (Annex VIII)

- 3. Activity 3.2.3 Big Falls: Upgrade road, entrance and parking area**

The road upgrade covered dumping of materials to build up 500 yards of road to the entrance of Big Fall house. The material was layout and compact. Low lying areas of the road were camber to reduce erosion and water runoff (Annex IX).

4. **Activity 3.2.4: Big Falls: Indoor and outdoor furniture** – the procurement of the indoor and outdoor furniture was from local provider in Punta Gorda Town. Furniture was installed on site in Big Falls (Annex X).
5. **Activity 3.2.5: Big Falls: upgrade 1 of 2 shower, sink and sewage** - Two showers were installed with new hot and cold shower heads. The old bathtubs were replaced with standing showers. New plumbing was done for both showers (Annex XI).
6. **Activity 3.2.6: Big Falls: Promote house on Airbnb:** The Belize Tourism Board have made some changes and new requirements for hotels and tourist destinations in Belize. TIDE needs to make changes on the facility in Big Falls before the site and building can be advertise on Airbnb. To Date changes in electrical requirement and insurance are being completed.

Activity 3.3 Upgrade accommodation facilities and equipment at TIDE's offices and protected areas - PHMR, PCNP and TPPL.

Activity 3.3.1: PHMR: Renovate bathroom. This activity was reallocated. Funding was use to rehabilitate the wharf at Abalone ranger station. Request and approval documentation in (Annex I)

Activity 3.3.2. TPPL: Complete 2 new cabanas: During the period one cabana was constructed on TIDE's Private Protected Lands. The other cabana will be constructed during the next quarter of the project. The construction of the cabana was completed within the contracted period (Annex XII)

Activity 3.3.3 PCNP: Outdoor Bathroom with lights. Payne’s Creek National Park now has an upgraded Solar System that provides energy for the entire site (Annex XIII)

Activity 3.3.11 TIDE Compound Storage Unit – To enhance and upkeep TIDE tours recreational equipment the storage area at TIDE compound was improved. A 12ft X 18ft extension on TIDE existing storeroom was constructed. A portion of the building received new ceilings and walls were plaster and painted. Shelves and racks were built for materials and equipment (Annex XIV)

Activity 3.5 Upgrade accommodation equipment at TIDE's offices and protected areas - PHMR, PCNP and TPPL for visitors

Activity 3.5.1: TIDE Compound: Health and safety equipment

Safety equipment were procured and dispatched strategically to different sites.

Health and safety Equipment				
Equipment	Brand	Size	Quantity	Donor
EMT first responder	spine board stretcher immobilization w/ head-bed and spider straps.		1	OAK
Head Mobilizer			1	OAK
A2 wrist support brace with thumb spica left	Aircast	Med(right)	1	OAK
A2 wrist support brace with thumb spica Right	Aircast	Med(left)	1	OAK
Tri-panel knee immobilizer brace	Velpeau	Lrge	1	OAK

Tri-panel knee immobilizer brace	velpeau	M	1	OAK
Tri-panel leg immobilizer brace	velpeau	S	1	OAK
Arm Sling, elbow shoulder padded support	Zinnor		1	OAK
Plastic neck support Brace	Wondercore Rigid Cervical collar	Med	1	OAK
Fasciitis Posterior Night splint	Plantar	Lrge	1	OAK
Fasciitis Posterior Night splint	Plantar	Med	1	OAK
Fasciitis Posterior Night splint	Plantar	small	0	OAK
Safety Lanyard	RP07YEI		6	OAK

One set was sent to Payne's Creek National Park, Porth Honduras Marine Reserve, Big Falls accommodation within TIDE Private Protected Lands and one set at the office in Punta Gorda Town. Rangers from these sites received basic training on the use of the safety equipment (Annex XV)

Activity 3.6.1 Investment made in reliable transportation – The investment made was on a 2018 Toyota-16-seater Hiace commuter van. The van is being used for transporting visitors and tourists that booked tours through TIDE Tours as well as airport pick up and drop off of international student groups for the ridge to reef program. This includes both domestic and international (Annex XVI)

Activity 3.6.3 Discover Corps familiarization tour

In March 2018 TIDE Tours hosted Ms. Amanda DiSilvestro from Discover Corps for a familiarization tour in Belize. TIDE first connected with Discover Corps at an adventure travel show in San Diego in 2014, and in 2016, Ridge to Reef Expeditions hosted its first guests through this partnership. Between 2016 and 2017, Discover Corps sent eight travel groups to take part in our manatee

research adventure tour. Participants collected sightings data on the endangered West-Indian Manatee, whilst exploring Belize's wildlife and cultures. Feedback questionnaires are completed at the end of each tour, and this has been used to continually improve the itinerary and facilities provided to guests. However, there was a barrier in marketing the program to Discover Corps guests since no representative from Discover Corps had ever visited the program before, so in March 2018 their marketing manager joined an expedition so she could experience the entire program. TIDE Tours Sales and Marketing Manager also took part in the expedition, so that the two of them could discuss different elements of the program. The result of this familiarization tour, is that the itinerary has been amended slightly, to improve flow and provide a better overall experience for guests, and Discover Corps can now sell the program more easily to their clients, since they have first-hand experience of it.

Activity 3.8 Implement social media strategy

1. Activity 3.8.1 Purchase smart phone – Samsung Galaxy s7 edge was purchased in December. The phone has been programmed with Apps for video and picture editing. We are purchasing an underwater housing for phone to be able to record underwater media files. The phone is use by TIDE Tours manager, TIDE Tours marketing and sales manager and sometimes by TIDE Tours tour guide. The smart phone allows the Sales Manager and Manager to quickly share videos and pictures through social media to keep potential customers updated and intrigued enough to visit the website and secure a tour. This approach has also worked well with tourists who make last minute plans for tours after they landed at their destination.

Activity 3.7 Participate in national and international travel conferences

1. Activity 3.5.2 Educational Travel Conference – The Educational Travel Conference was attended by Delonie Forman (TIDE Tours Manager) and Caroline Oliver (TIDE Tours Marketing and Sales Manager). The training was held in Bermuda on February 3rd – 10th 2018. The conference had some of the world's top presenters in marketing and sales. Lessons learnt will be incorporated into

several of TIDE Tours program areas. Some of the lesson learnt was how to connect people and places for a better world. Guests need to meet the needs of grassroots organization they are visiting and help to finance these groups in order for them to continue preserving the wildlife and environment.

Another lesson was how best to organizing tours that build lasting relationships and generate future gifts. Looking out and building long term guest relationship than short term encounters. (lesson learnt was compiled and Annex XVI)

2. Activity 3.7.4 BTB Conference - The Annual Industry Conference was held in Belize City on December 7, 2017. This conference was organized by the National Belize Tourism Industry Association. The conference highlighted updates within the industry as to BTIA's next move to advocate for the banning of Styrofoam and single use plastics, upcoming National Bird Festival in October of 2018, reports on achievements in 2017 among other presentations. There was also an election of executive members for the body governing this national association. Statistics were presented to the attendees with regards to general travel patterns with Central America and the Caribbean. An update with regards to infrastructural development planned for Toledo was presented by the International Development Bank (IDB). This project was of interest to TIDE since the second phase of the Sustainable Tourism Program will be done in Punta Gorda. The IDB funded project will provide funds for Toledo District in three areas. (1) enhancing the visitors' experience by making these sites more attractive; (ii) reducing the vulnerability of these sites to the impacts of floods, hurricanes and other natural disasters; and (iii) training the people working in these areas to manage the industry better, through better information and statistics collection, for better policy and planning decisions.

TIDE sits as the Chair on the local Tourism Committee which will be guiding this project through its different stages of implementation. TIDE Tours could potentially benefit from this project as the goal is to increase tourism in Punta Gorda.

3. Activity 3.7.5 Canada Road show – Ms. Caroline Oliver (Marketing & sales Manager) of TIDE Tours attended the Belize Tourism Canadian Roadshow from November 6th – 10th 2017. TIDE believes that the Canada Road show was a strategic event to attend. Canadian tourist is a growing market in Belize and represents the second largest group of visitors to Belize. With TIDE Tours being the only ecotourism supplier attending the show; several buyers expressed interest to visit Belize. During this event, the Sales Manager had meetings with over 50 potential clients that are interested in sending tours to Belize. Details of her trip in the activity (Annex XVII)

Objective 4 to develop and implemented an Effective communication strategy in order to communicate TIDE's impact to stakeholders, donors, and partners.

Activity 4.1 Hire Communications Manager: Ms Sabrina Myvett was hired on July 5, 2018 as TIDE's Communications Manager. Sabrina has a Bachelor's Degree in communications and more than 4 years teaching experience.

Activity 4.2 Organize and complete consultation meetings with TIDE staff, management, and board of directors to develop communications strategy. The communication strategy was presented to TIDE staff. Plans are to present the strategy to the board at the next TIDE board meeting in October (Annex XVIII).

The activities below are pending, but will be implemented before the end of October 2018.

Activity 4.3 Launch communication strategy: Due to mid-September, leading up to mid-October, being a very busy time for the TIDE team, as it relates to preparations for our largest fund-raising event, the availability of staff and board members for consultation and communication training, has been difficult. The communication strategy was internally launched and will be shared with the board members after the Conservation Festival activities are concluded.

Activity 4.4 Print new communications and promotional materials:

Consultations were held and new communication and promotional items were successfully ordered and their layouts were submitted for approval by TIDE, before going into production. The month of September sees a number of events and national holidays so again, production of some of our items were somewhat delayed due to the amount of business productions submitted ahead of TIDE's items, to one creative design company, in particular. They are slated to be ready by mid-October.

Activity 4.5 Train all TIDE staff in communications techniques:

Initial consultations were carried out to evaluate the majority of TIDE staff's grasp and appreciation of communication as well as areas that needed additional work to improve effective internal communication practices. Management staff were made aware of the action plans to address TIDE's communication goals and objectives with public audiences, by way of the communication strategy's dissemination. The trainings can properly be administered after TIDE's conservation festival activities are concluded, particularly trainings for the rangers.

Activity 4.6 Promote TIDE's work on national radio and TV: through monthly advertisement spots TIDE has secured the services of PGTV to conduct production of monthly campaign flyers/videos accompanied by informative audio, informing all of its viewers of TIDE's work. Each month will be focusing on different area of TIDE's work and will be aimed at further securing our audiences' support and cooperation in addition to functioning as a means of keeping the general public, informed. It is projected that our advertisements/campaigns will be aired approximately 80 times during the course of a week and will even be aired by a media house in Belmopan City, which airs Punta Gorda's weekly news segment. TIDE was able to secure prime time views of our advertisements/campaigns by bargaining for it to be played during the course of the weekly news segment on PGTV.

Activity 4.7 Design and launch individual donor program: The Individual Donor Program is a work in progress, as we are currently building on the recorded database of individuals, businesses, organizations and statutory bodies that have donated to TIDE's cause, in a number of categories. Our familiarization tour is set to be conducted during the course of October 2018. We recognize its important functions as a means of encouraging continued and new donors to donate to TIDE's cause.

1. Obstacles:

The hiring of a communications officer was an obstacle with achieving communication goals, but we have progressed well since the hire. Aside from that, all other project activities have had smooth implementation. The healthy communication among project team has been extremely helpful. Savings were realized for salaries due to delays in hiring of science director and communication officer. Total of Bz\$31,047.82 was carried over for year two project activities.

2. Links with other organizations:

TIDE works with several organizations and stakeholders in the accomplishment of its wider mission. During project implementation TIDE collaborated with the Belize Fisheries Department and the Belize Coast Guard in law enforcement activities. TIDE Tours also continue business linkages with local restaurants, tour operators, tour guides, local community businesses and several other stakeholders involved in the tourism industry.

TIDE Tours has a vendor listing of approximately 150 stakeholders. Some of the local restaurants which TIDE Tours use includes Waluco's Restaurant, Asha's Culture Kitchen and Gomiers Restaurant. Tour operators we partner with include Garbutt's Marine, PG Tours, Monkey Bay and Big Falls Extreme adventures, among others. We employ local part time guides, most of whom received some form of training from TIDE, like Alex Leonardo, Dan Castellanos Jr. and Neville Smith. Local vendors such as Quality Poultry, Southern Grocers Supplies all benefit from the expeditions which TIDE Tours coordinate. The contact made from

attending Canada Road Show gave TIDE Tours over 50 direct linkages to business with tourism connection to Belize. Collaboration continued with Discover Corp. One group arrive in December of 2018. The next group is schedule to arrive in the month of May of 2019.

3. Description of activities for next period:

The planned activities to be implemented for the next period includes:

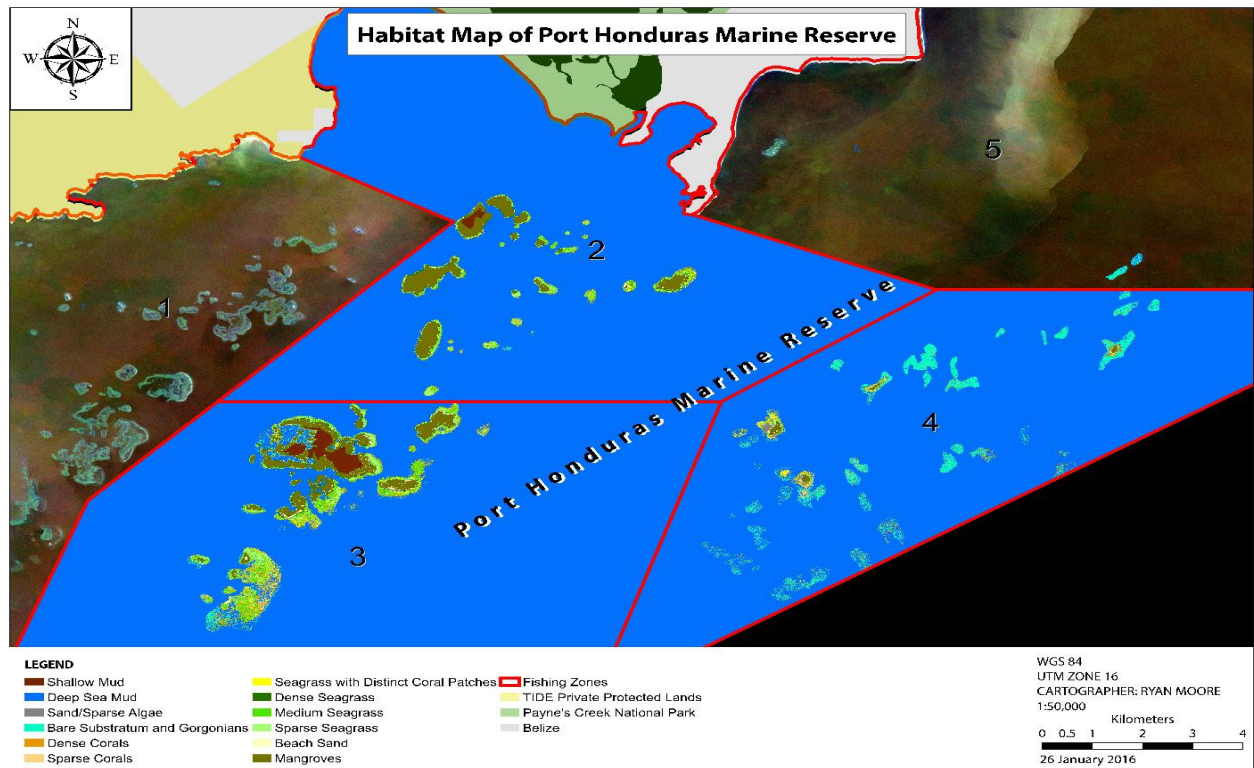
1. Continue conducting at least one biodiversity monitoring dive per commercial species.
2. Complete quadrant map for PHMR
3. Complete two additional managed access forum
4. Purchase equipment and materials required for patrols for PHMR rangers.
5. Complete weekly patrols within PHMR
6. Complete 1 new cabana on TIDE Private Protected Lands – site for the cabana have been selected.
7. Purchase outdoor furniture for TPPL
8. Upgrade TPPL Kitchen
9. Attend 1 international student travel show
10. Participate in Belize Tourism Expo
11. Attend BTB Conference
12. Attend BTB Road Show
13. Repair and upgrade TIDE boat
14. Purchase 1 outboard engine
15. Print new communications and promotional materials*
16. Promote TIDE's work on national radio and TV through monthly advertisement spots.
17. Conduct familiarization tour for donors
18. Launch individual donor program

4. Project development table: (Attached as separate document)

ANNEXES

Please attach graphic materials and publications that illustrate the results and are samples of the project products.

Annex II



ANNEX VII

Visitor accommodation compound in Big Falls is properly landscaped and maintained.

BEFORE



AFTER





ANNEX VII

Renovate downstairs bathroom and bedroom at Big Falls accommodation site



ANNEX IX
Big Falls: Upgrade road, entrance and parking area
BEFORE



AFTER



ANNEX X

Big Falls: Indoor and outdoor furniture



ANNEX XI

Big Falls: upgrade 1 of 2 shower, sink and sewage



ANNEX XII
Complete New Cabana



TPPL:



ANNEX XIII
**Outdoor Bathroom with lights. Paynes Creek National Park now has an upgraded
Solar System that provides energy for the entire site**



ANNEX XIV
TIDE Compound Storage



ANNEX XV
TIDE Compound: Health and safety equipment



ANNEX XVI

Investment Made in reliable transportation



ANNEX XVIII

Organize and complete consultation meetings with TIDE staff, management, and board of directors to develop communications strategy.



Annex 1

PROJECT DEVELOPMENT TABLE

Project title: Strengthening financial sustainability initiatives to support the management of PHMR

Objectives	Output / Expected Result	Activity	Sub-activity	Time Unit- Quarters								Performance indicator	Sources and means of verification	Impact Indicator	Assumptions & risks	% of Completion	
				Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8						
Objective 1. Monitor at least 3 finfish species as well as commercially important fisheries, conch, lobster, sea cucumber and map their habitats to inform Adaptive Management Framework (AMF)	Report on status of commercial species generated with specific management recommendations.	1.1 Complete quadrant 3 of 4 of the habitat maps for the PHMR by dives.		X	X								1.1 20 dives in 5 days to collect data from incomplete zones in the PHMR and to complete GIS work for habitat map	1.1 Miscellaneous Habitat map	1.1 – 1.4 Commercially important species populations maintained or improved from baseline for conch (10/ha) lobster (5/hr) and sea cucumber (45/ha)	1.1 – 1.3 Assumption: Weather, visibility and water conditions permit the habitat mapping to be completed	100% completed
		1.2 Geo-reference points from different zones of the PHMR				X							1.2 20 dives in 5 days to collect data from incomplete zones in the PHMR and to complete GIS work for habitat map.	1.2 Miscellaneous Habitat Map			N/A for this period
		1.3 Collect data to complete 8 biodiversity monitoring dives from commercial species (lobster, conch, sea cucumber and 5 fin fish species).		X	X	X	X						1.3 Complete at least 2 biodiversity monitoring dives per commercial species per year for at least 8 species	1.3 Annual report on status of commercial species			100% completed
	AMF tool contributes to improved fisheries management decisions for PHMR	1.4 Organize 4 Managed access forums				X		X		X		X	1.4 At least three Managed Access Forums of 1 day each with the participation of at least 50 fishermen/forum, compleated per year.	1.4 Minutes, photos, activity report, feedback	1.4 Fishers actively participate in forums and provide solid recommendations for management	100% completed - total of 2 sea cucumber, 2 conch, 2 lobster, 2 coral has occurred since october 2017.	
Objective 2. To reduce Fishing pressure through increased surveillance and enforcement in PHMR.	Fishing pressures in PHMR are reduced through increased surveillance and enforcement presence in the MPA	2.1 Conduct at least 600 daily patrols in PHMR		X	X	X	X	X	X	X	X	X	2.1 At least 90% or 50 managed access fishers are complying with regulations of the MPA	2.1 Patrol logs indicate at least 600 patrols completed.	At least 80% of the licensed fishers are complying with the rules and regulations of the MPA.	2.1 – 2.3 Assumption: Staff is able to collect and analyze SMART data	100% completion. A total of 198 patrols were conducted
		2.2 Purchase equipment required for used of SMART technology		X	X								2.2. Purchase equipment (1 laptop, 5 GPS) required for data collection with SMART technology	2.2 – 2.3 SMART data that includes number of commercial, recreational and sports fishers as well as number of patrols and number and types of illegal activities recorded.			100% completed
		2.3 Collect and analyze SMART data for the PHMR		X	X	X	X	X	X	X	X	X	2.3. With the use of tablets SMART data analyzed and used to guide management decisions				SAMRT Data collected for over 3 quarters of

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Objective 3. To strength TIDE's financial sustainability mechanisms through implementation of alternative income generating programs.			3.4.7. Upgrade trails on TIDE's Private Protected Lands (TPPL)					X								N/A for the reprotng period
			3.4.8. Purchase outdoor furniture (4 picnic tables) for TPPL	X												N/A for the reprotng period
			3.4.9. Construct kitchen at TPPL for overnight visitors	X												N/A for the reprotng period
			3.4.10. Construct bunkhouse at TPPL					X								50% completed.
			3.4.11. Construct storage unit at TIDE office		X											100% completed.
		3.5 Upgrade accommodation equipment at TIDE's offices and protected areas - PHMR, PCNP and TPPL for visitors	3.5.1. Purchase health and safety equipment		X							Purchase health and safety equipment				N/A for the reprotng period
			3.5.2. Purchase 10 life vests, 10 storage boxes and 10 brackets		X							Purchase 10 life vests, 10 storage boxes and 10 brackets				N/A for the reprotng period
			3.5.3. Purchase 1 set of dive boat mats		X							Purchase 1 set of dive boat mats				100%completed
			3.5.4. Purchase 1 desktop computer	X								Purchase 1 desktop computer				100%completed
			3.5.5. Purchase 1 computer desk	X								Purchase 1 computer desk				1005 Completed
	Travel agents market and recommend TIDE tours enthusiastically and consistently	3.6 Plan and implement familiarization tours for at least three different booking agencies, both domestic and international	3.6.1. Invest in reliable transportation for visitors by purchasing a mini bus	X								3.6. At least 3 familiarization tours to TIDE protected areas and tour sites in Toledo for 2 persons per tour completed per year resulting in 10% increase in reservations	3.6. Photos, materials, agenda, program, list of new contacts added to database	3.6. TIDE Tours' income is maintained based on 2016 audit or increased by 10%	3.6. Assumption: Travel agents attend familiarization tours	100% completed. Transortation
			3.6.2. International familiarization tour (Company to be determined)		X	X										Slated for November
			3.6.3. Conduct Discover Corps familiarization tour		X											100% Completed
			3.6.4. Familiarization tour for Belizean Tour Operators		X											100% completed
	TIDE is exposed to new and innovative ideas in travel companies and is able to implement in its own business	3.7 Participate in national and international travel conferences	3.7.1. Attend two international students travel shows to conduct marketing. One each year.	X		X		X				3.7. Staff attends at least 5 national and international tourism conferences per year (two international students travel shows, one each year; one educational travel conference; one in Belize Tourism Expo; BTB conference in Belize; Canada road show with BTB).	3.7 Conference agenda, notes, photos, business plan with new ideas learned from conferences	3.7 The number of reservations from booking agents increase by 20% resulting in 10% increase in income.	3.7 Booking agents make reservations for visitation within 6 months of attending conferences	100% completed
			3.7.2. Attend 1 Educational Travel Conference	X	X											100% completed
			3.7.3. Participate in Belize Tourism Expo			X										100% completed
			3.7.4. Attend BTB conference in Belize				X									100%completed
			3.7.5. Attend Canada road show with BTB	X												100%completed
			3.7.6. Participate in BTB road shows					X								N/A for the reprotng period
	Social media campaign is reenergized and market		3.8.1. Purchase smart phone	X								3.8 Likes and followers on social media platforms increased by 20% at the end of the project	3.8 Number of likes and followers on social media	3.8 Income to TIDE Tours	3.8 Potential customers follow TIDE Tours on social	100% completed

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	base is expanded through the implementation of a social media strategy.	3.8 Implement a social media strategy	3.8.2. Implement online marketing training			X						resulting in an additional 5% in bookings	followers on social media, number of increased bookings	increases by 3% from new markets	known marine tours on social media and make reservations	100% completed
	The profits from marine tour packages increase by acquiring equipment needed	3.9 Implement new marine tour packages	3.9.1. Repair boat					X				3.9 new equipment (boat engine, dive tanks and repair boat) allows TIDE Tours to keep marine tours in-house thereby retaining the income that would have been outsourced	3.9 new marine tour package added to marketing media; inventory of fixed assets includes boat, engine and dive tanks	3.9 Income from marine tours increased by at least 5%	3.9 Assumption: customers book marine tours; weather permits marine tours	N/A for the reproting period
			3.9.2. Purchase new boat engine					X			N/A for the reproting period					
											N/A for the reproting period					
			3.9.3. Purchase dive tanks	X												
Objective 4: To develop and implemented an Effective communication strategy in order to communicate TIDE’s impact to stakeholders, donors, and partners.	Effective communication strategy developed and implemented in order to communicate TIDE’s impact to stakeholders, donors, and partners.	4.1 Develop Terms of Reference (TOR) and hire Communications Manager		X								4.1 Communications Manager secured	4.1 Employment contract signed with Communications Manager	4.1 – 4.6 Number of individuals reached via social media is increased by 10% more, than the current most-reached social media post (11,300 reached) (4,000 clicks). Number of local stakeholders' knowledge of TIDE increased by 10% as measured through before and after surveys. Number of individuals that visit TIDE's website or searched for TIDE increased by 15% from 2017 figures as measured using google analytics.	4.1 – 4.4 Assumption: Communications Manager is qualified to fill role.	100% completed
		4.2 Complete communication strategy through consultations			X						4.2 At least 8 meetings to organize and completed with all TIDE staff, Management, and Board of Directors.	4.2 meeting minutes, pictures, sign in sheets	100 % completed			
		4.3 launch communications strategy				X					4.3 Communication strategy presented to the Board of Directors for approval	4.3 Strategy document approved by the Board of directors	40 % completed			
		4.4 Develop new communications materials, including website and social media presence									4.4 Website and social media campaign launched wit new website 200 copies of a new publication and 1 radio/TV show spots .	4.4 Website, social media, Communication materials	90% completed. revising and updating of the website has been completed. The new site will be reviewed and upload in April.			
		4.5 Train all TIDE staff in communications techniques			X		X				4.5 Communications training completed and at least 15 staff trained	4.5 Attendance, agenda, minutes, photos	4.5 Staff is open to training			hiring of communicati on officer
		4.6 Conduct radio shows and TV spots.		X		X		X		X	4.6 At least 2 TV spots per year and 5 radio spots per year based on themes identify by the strategy	4.6 TV and radio receipts, activity reports	4.6 Target audience act on information received and are willing to change attitudes.			100% completed
					X		X		X							

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	TIDE's donor base is expanded and donors remain committed	4.7 Design and launch individual donor program		X	X	X						4.7 Individual program launched with initial campaign and at least 2 focused campaigns per year	4.7 Campaigns, reports, donor income, donor database	4.7 number of committed individual donors increase by 10%	4.7 Assumption: Donors are committed to TIDE	40 % completed
	High priority donors are supporting TIDE's work	4.8 Complete familiarization tour for high priority donors				X				X		4.8 At least 1 familiarization tour of TIDE's 3 protected areas per year.	4.8 Tour agenda, reports, photos	4.8 TIDE's funding sources are diversified	4.8 Assumptions: Donors are willing to participate in familiarization tour; weather permits tour	70% completed