
Belize Audubon Society
Belize Audubon Society
Annual Report 2021

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Our Vision

Belize Audubon Society (BAS), is a resilient and transformative leader in environmental stewardship.

Our Mission

Belize Audubon Society (BAS), is dedicated to promoting Belize's natural resources through sound environmental governance, ecological monitoring, stakeholder engagement and partnerships for the benefit of people and the environment.

Our History

The Society was formed in 1969 as a foreign chapter of the Florida Audubon Society and in 1973, became a completely independent Belizean organization.

BAS is the longest standing conservation NGO in Belize charged with co-managing seven of Belize's most biologically and topographically diverse protected areas. BAS helped establish Belize's first protected area at Half Moon Caye, and now co-manages seven protected areas in partnership with the Government of Belize.

BAS is a membership organization with an elected Board of Directors. It is a registered NGO under the Non-Governmental Organizations Act of Belize 2000, and is a member of several international organizations and local allies.

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BELIZE AUDUBON SOCIETY

PROUD MEMBER OF:

BirdLife INTERNATIONAL

IUCN

APAMO
The voice of Belize's Protected Areas

BNN
BELIZE NETWORK of NGOs

Message from Executive Director

"Hope is knowing, no matter what, that there is a light. Hope is being able to see that there is a light despite all the darkness." – Desmond Tutu

It has been my experience that to remain in the field of conservation one must be an eternal optimist. Hope must always remain alive despite climate change, fires, coral diseases, drought, zoonotic pandemics, and financial issues. If resiliency was key for the survival in 2020, then it was hope that kept us going in 2021. We began to see the "light at the end of the tunnel" regarding the global pandemic. With resolved vision, BAS continues to move forward as we have in the past, cautiously optimistic.

The year of 2021 saw the commencement of what we anticipate being a three-to-four-year COVID recovery period. Picking ourselves up, dusting ourselves off, and moving forward with our heads held high, BAS has slowly begun to normalize. All the protected areas are open and receiving guests; the education and community outreach program have reignited meetings with students, buffer communities, tourism stakeholders and our research and monitoring activities continued. We have done so with health measures/protocols in place to ensure staff and stakeholder safety.

The financial recovery commenced in 2021 with BAS seeing a 49% return to "normal" tourism numbers. Projects and grant support have been key in keeping the BAS wheels turning. We are proud to say we successfully weathered the worst of the COVID pandemic. We have learnt to be adaptive, knowing the survival of this 52-year-old institution is vital. Our plans may have been delayed, our programs re-adjusted, but with the support of staff, members, partners, and donors we know we are resilient.

We invite you to read through this 2021 annual report to get more details on the accomplishments of the year. Additionally, we invite everyone to the seven protected areas BAS co-manages so you can experience and see the great work on the ground.

Thank you for your support and loyalty over the years!

BELIZE AUDUBON SOCIETY

Board of Directors

PRESIDENT
Earl Green

FIRST VICE PRESIDENT
Mike Heusner

SECOND VICE PRESIDENT
Kevin Geban

FIRST SECRETARY
Rasine Gillett

SECOND SECRETARY
Janelle Chanona

TREASURER
Simon Reardon-Smith

DIRECTORS
Randal Taylor
Mariana Ancona
Francis Canto Jr.
Olivia Carballo-Avilez
Shajira Martinez
Ishmael Quiroz
Virginia Burns-Perez

IMMEDIATE PAST PRESIDENT
Ernest Raymond Sr.

Administrative Staff

EXECUTIVE DIRECTOR
Amanda Acosta

FINANCE DIRECTOR
Jose Luis Lopez

FINANCE COORDINATOR
Eric Swan

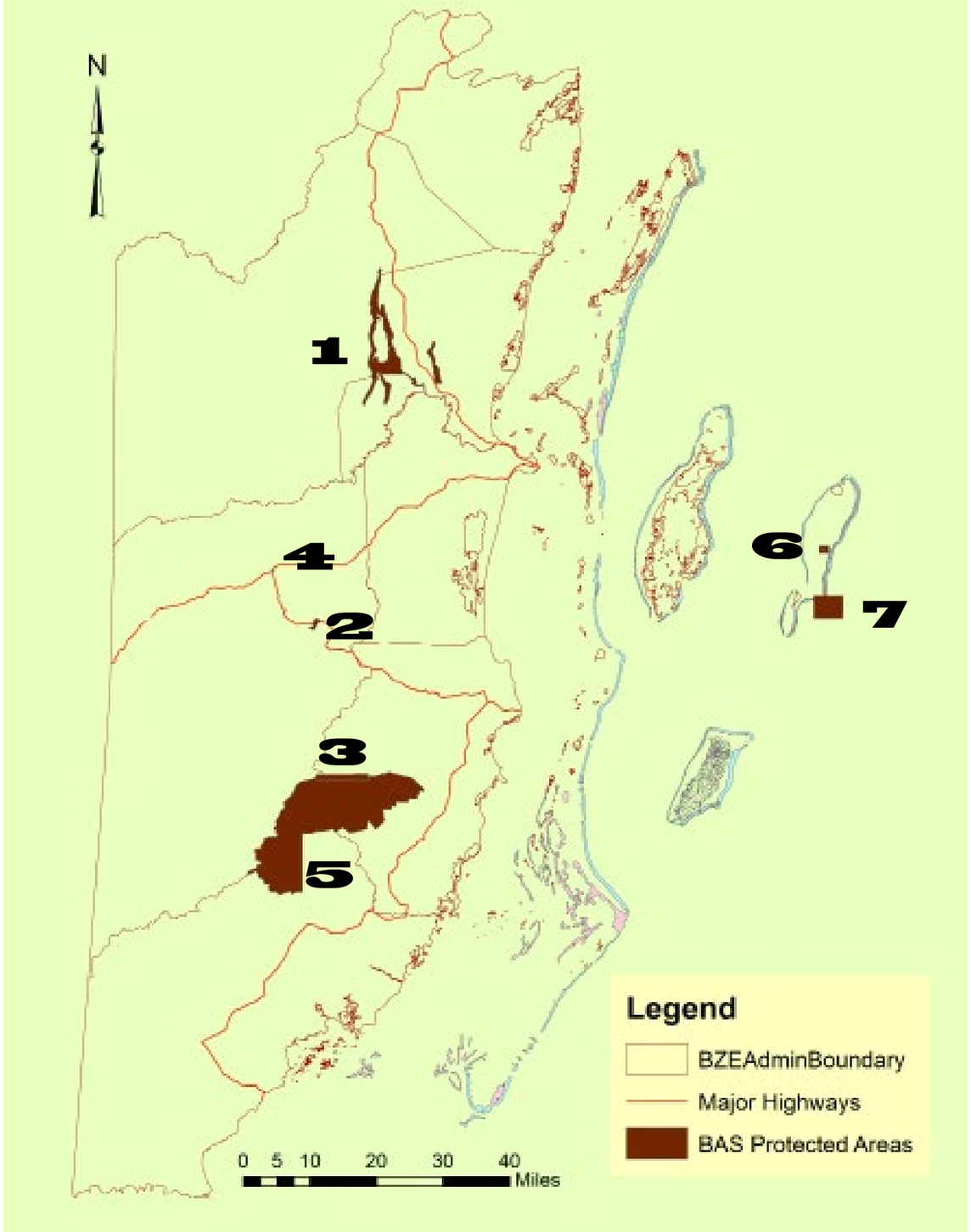
HUMAN RESOURCES COORDINATOR
Yael Perera-Bowen

MEMBERSHIP SERVICE MANAGER
Vacant

RESERVATIONS & GIFT SHOP COORDINATOR
Delia Noble

OFFICE ASSISTANT
Ryan Chan

VOLUNTEER
Natalie Blachford



BELIZE AUDUBON SOCIETY co-manages the following **seven** protected areas:

1



CROOKED TREE Wildlife Sanctuary

4



GUANACASTE National Park

2



ST. HERMAN'S BLUE HOLE National Park

5



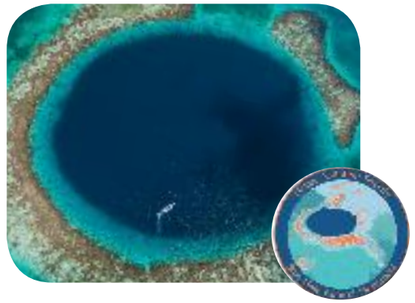
COCKSCOMB BASIN Wildlife Sanctuary

3



VICTORIA PEAK Natural Monument

6



BLUE HOLE Natural Monument

7



HALF MOON CAYE Natural Monument

MEET THE STAFF

TERRESTRIAL

Arvin Coc, Terrestrial Protected Areas Manager

Guanacaste National Park:

Steven Coc, Assistant Site Manager
Joshua Richards, Park Ranger
Artexeres Sho, Park Ranger

St. Herman's Blue Hole National Park

Albert Augustine, Site Manager (outgoing)
Johny Tzib, Site Manager (current)
Miguel Sho Assistant Site Manager
Abner Milian, Park Ranger
Transito Jimenez, Park Ranger
Edgar Batz, Park Ranger
Alfonso Baptist, Park Ranger
Yanik Moh, Park Ranger
Raphael Choc, Park Ranger

Cockscomb Basin Wildlife Sanctuary

Nicacio Coc, Site Manager
Deyri Oseguera, Front Desk Clerk
Emmanuel Saqui, Assistant BRM Officer/ Park Ranger
Mario Bolon, Park Ranger
Cayetano Pop, Park Ranger (outgoing)
Leonardo Chiac, Park Ranger
Salustino Peck, Park Ranger
Selvin Bol, Park Ranger
Valentino Pineda, Park Ranger
Salustino Peck, Park Ranger
Luis Navarro, Park Ranger
Marta Sho, Housekeeping

MARINE

Shane Young, Marine Protected Areas Manager

Half Moon Caye Natural Monument
Blue Hole Natural Monuments

Ramon Aguilar, Site Manager
Reinaldo Caal, Assistant Site Manager (outgoing)
Mordicayo Mis, Assistant Site Manager
Carlos Perez, Park Ranger/Boat Captain
Marcello Cal, Park Ranger
Everal McCulloch, Park Ranger
Michael Sabal, Park Ranger
Toby Moreira, Park Ranger (outgoing)
Gerian Garcia, Park Ranger (outgoing)
Glenford Usher, Park Ranger (outgoing)

Crooked Tree Wildlife Sanctuary

Derick Hendy, Site Manager
Terique Gillett, Park Ranger
Walter Perriott, Park Ranger

Biodiversity Research & Monitoring

Dominique Lizama, Conservation Programme Director
Tanya Barona, BRM Officer, Marine
Chang-Hong Tsao, BRM Officer, Terrestrial

Education & Communications

Dareece Chuc, Environmental Education & Communications Director
Roberto Rivero, Environmental Education Officer
Lucito Ayuso, Community Liaison Manager



Improving our Brand & Visibility

Brand Awareness Survey

In August 2021, a Brand Awareness Survey was carried out to better understand how BAS members and the general public perceive the organization and its work, what values people associate with BAS, and how recognizable and representative BAS' logo and visual brand is. The results of the brand survey was the used in combination with staff consultation to develop the revised brand document for the society.

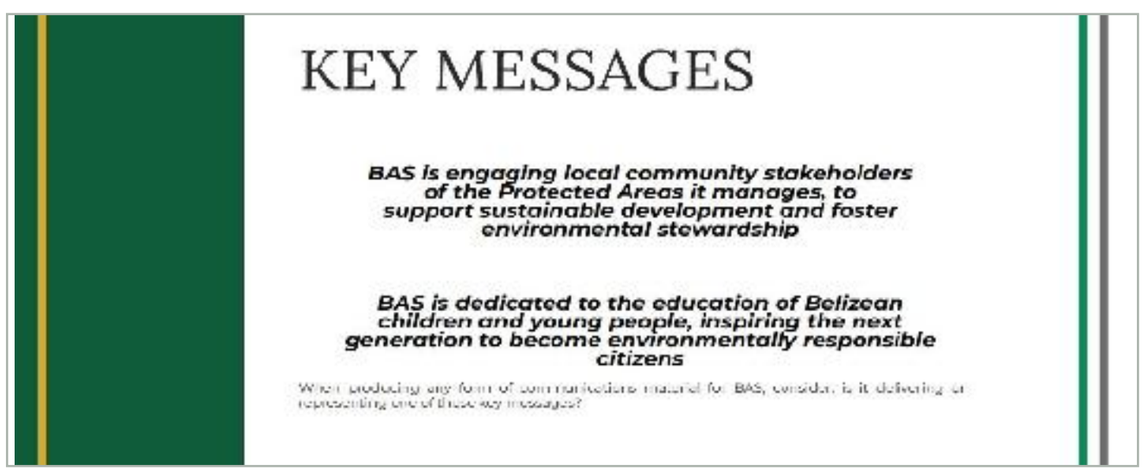
Brand Values

Participants of the survey were presented with a list of BAS' brand values, and asked to rate how strongly they associate them with BAS on a scale of 1-5. Below is a table which shows the mean score out of 5 for each core value.

BAS Brand Value	Mean Score /5
Integrity, accountability, and transparency	4.24
Partnership and collaboration	4.18
Responsible environmental stewardship	4.60
Efficient and prudential use of assets	4.19
Results-oriented	4.02
Evidence-based decision making	3.98
Belief in empowerment	4.15

The survey was completed by a total of 62 participants; 36 of whom are current BAS members (58%) and 26 who are not members (42%).

The value which received the highest ranking for how strongly people associate it with BAS was 'Responsible environmental stewardship', with a mean score of 4.6. The only value to receive a score lower than 4 (and even then, only slightly lower) was 'Evidence-based decision making', with a score of 3.98. With all the other values scoring between 4.02 and 4.24, it shows that overall people do associate BAS with the society's self-defined core values.





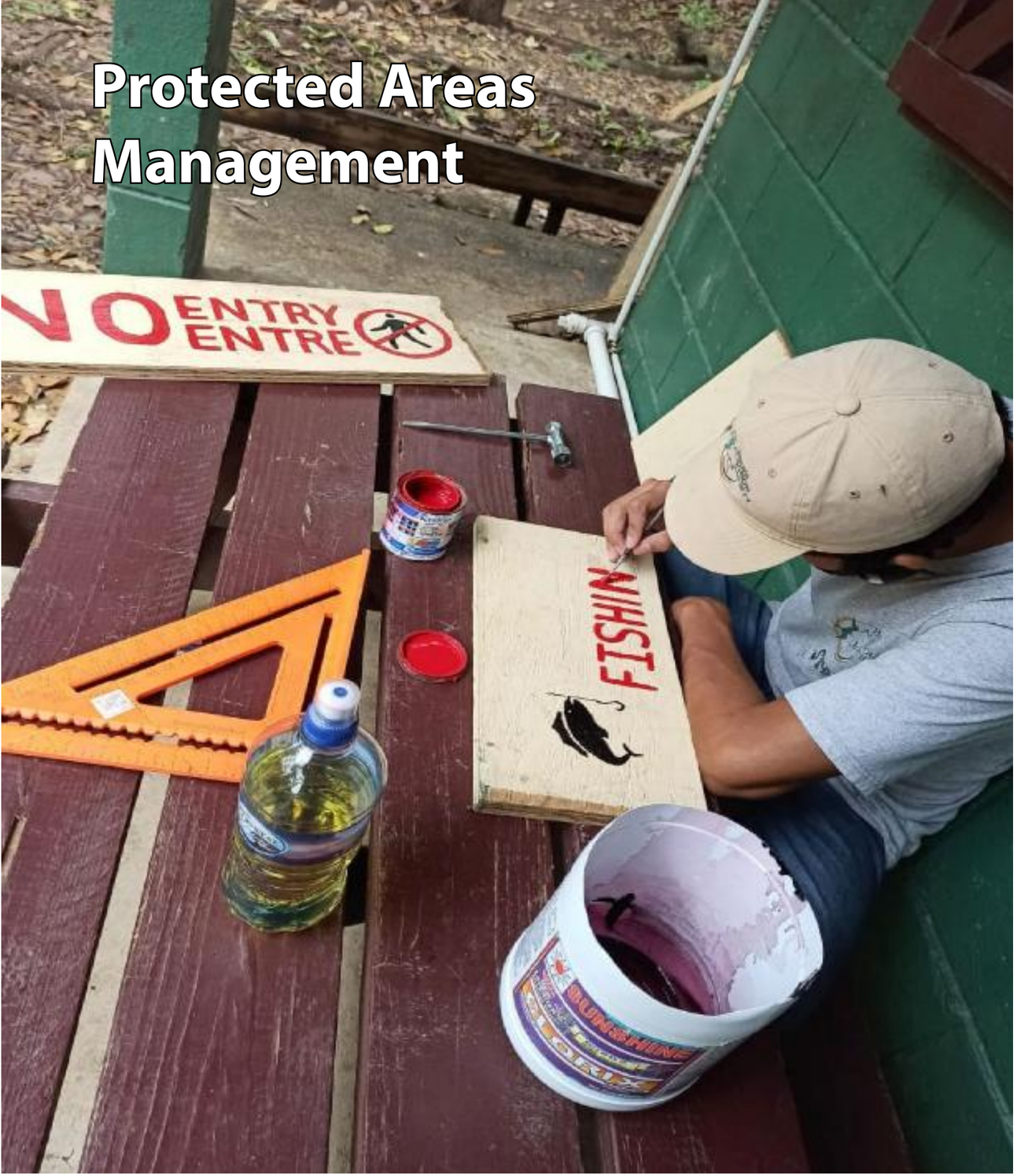
After reviewing the brand survey results and consulting with board and staff, a decision was then made to make a small update to the logo, replacing the brown cresent with a gold cresent providing a more modern look and the Gold representative of the society being 50 plus years old. The Gold and Green make up the primary color palette- the go-to colors for designing of promotional materials. (See above)

Launch of New Website



This year our website was redesigned with a modern look and launched in late 2021. The website now features a birding page, projects page and updated information on BAS' co-managed protected areas. It also serves as a platform for reference documents (annual reports, biodiversity reports and educational materials).

Check out our website at www.belizeaudubon.org.



CO-MANAGEMENT DUTIES



ENFORCEMENT OBJECTIVES

1. **Maintain** presence around known hotspots for illegal activity.
2. **Scrutinize** hotspots and other signs of activity.
3. **Identify** hunter/fisher camps & other hotspots w/in site boundaries.
4. **Arrest** & prosecute individuals in illegal activities within sites.
5. **Maintain** presence and control of tourism activities at each PA.

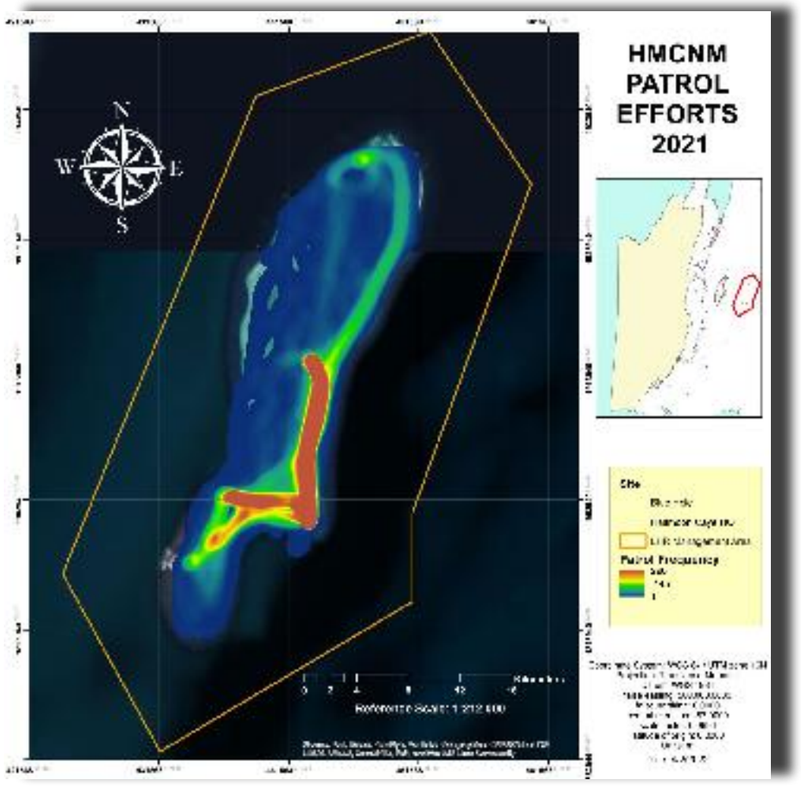
UPKEEP OBJECTIVES

1. **Maintain** trails and boundary lines within each protected area.
2. **Protection** of natural resources.
3. **Enhance** visitor experience by improving facilities and other infrastructures on site.

MANAGEMENT: MARINE

HALF MOON CAYE & BLUE HOLE NATURAL MONUMENTS (HMCNM/BHNM)

Building compliance has and continue to be a challenge. The increase of new fishers entering the sector, and the crafty actions of a minority of fishers carrying out illegal fishing activities, persisted. Recognizing the importance of the collaborative effort to protecting our natural resources, the Belize Coast Guard increased its number of officers attached to Belize Audubon Society, moving from two officers to 4. In addition, they continue to have established presence at Northern Two Cayes, 16 miles north of Blue Hole.



Lighthouse Reef Atoll heat map

Heat maps showing patrol density with the red areas indicating more frequently patrolled areas through out the year.

343
patrols conducted with Belize Coast Guard

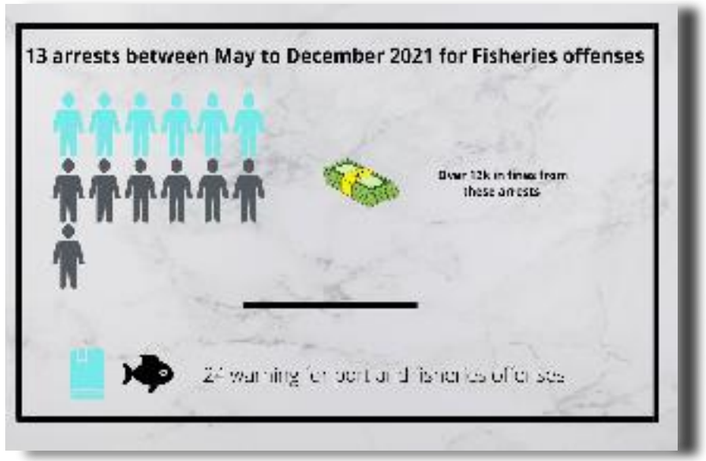
3
Joint patrols conducted with Belize Coast Guard & Fisheries Dept.

MANAGEMENT: MARINE

Outcome of surveillance and enforcement patrols



Staff conducting routine vessel boarding at LHRA



The staff at HMC continue to provide visitor information and awareness on the importance of the sites. They also assist the research and monitoring and environmental education programs as necessary.



Staff conducting routine checks for compliance of Fisheries Regulations

MANAGEMENT: TERRESTRIAL

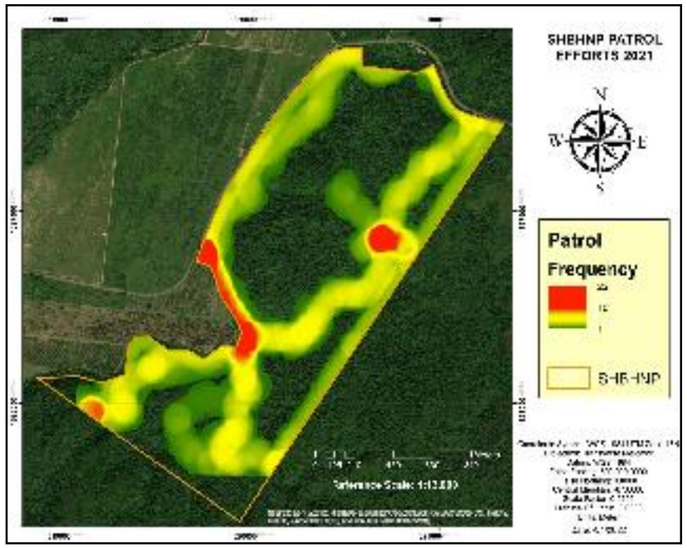
ST. HERMAN'S BLUE HOLE NATIONAL PARK (SHBHNP)

In 2021 patrols concentrated on visitor safety and biodiversity protection. Daily surveillance were conducted on the trail prior to the cave opening hours and to monitor activities within the vicinity of St. Herman's Cave and Crystal Cave. Staff continue to provide visitor information and awareness on the importance of the site. They also assist the research and monitoring and environmental education programs as necessary.



Staff on patrol inside St. Herman's Cave

Heat maps showing patrol density with the red areas indicating more frequently patrolled areas through out the year. (right)



54

Patrols conducted to hotsposts and boundary



Staff and Police on patrol at SHBHNP

21

Joint patrols conducted with Tourism Police

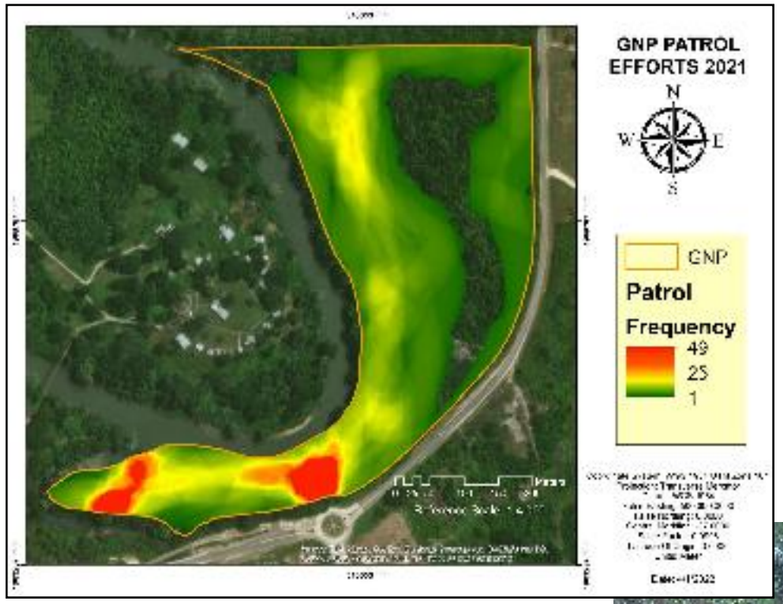
Patrol outcome:

Hot spots for illegal hunting, logging and harvesting of pacaya (palm species) indentified.

MANAGEMENT: TERRESTRIAL

GUANACASTE NATIONAL PARK (GNP)

Staff presence through the year is important for visitor managment and survelliance. Staff participated in routine patrols to ensure safety and resource protection on site. At GNP visitors utilize the park primarily for nature trails and swimming. Staff continue to provide visitor information and awareness on the importance of the site. They also assist the research and monitoring and environmental education programs as necessary.



34

Patrols conducted with Tourism Police

Patrol outcome:

Hot spots for illegal hunting and fishing identified and one warning issued for illegal hunting.



Staff and Police on patrol at GNP

MANAGEMENT: TERRESTRIAL

CROOKED TREE WILDLIFE SANCTUARY (CTWS)

Surveillance continues within and adjacent to the boundary of the protected area including the Crooked Tree Lagoon, Big Swamp, Nancy Bite, Black Creek, Mexico Lagoon, Jones Lagoon, Southern Lagoon, Spanish Creek, Western Lagoon, Calabash Pond, Alligator Pond, Western causeway, Northern lagoon, Eastern causeway, and the Chau Hiix Mayan Site. Staff continued to observe gill nets being set within the lagoon, land clearning and bush fires. Harvesting of Hicatee and fishing without a valid fishing licenses appears to be some of the more prevalent issues within the protected area.

Covid-19 prevented in-person community engagement (school visits, bird clubs). However, while the lagoon was flooded BAS in partnership with the Belize Coast Guard provided boat transportation assistance to the villagers of Crooked Tree. Furthermore, during flooding events, the visitor centre at Crooked Tree is utilized as an operating base for the Belize Coast Guard.





Damage to boardwalk due to flooding

The staff at CTWS continue to provide visitor information and awarenes of the site and throughout the year they assisted the BR&M team in collecting water level readings and bird data.

14
Patrols conducted

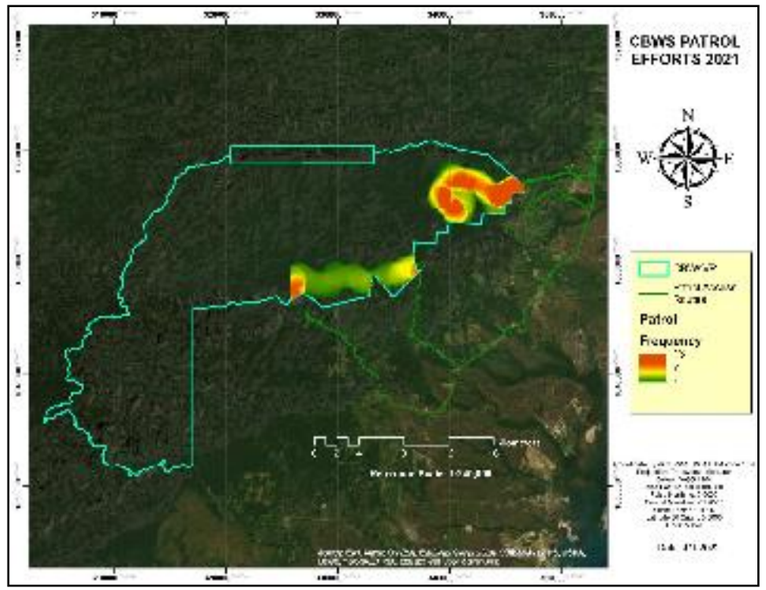
MANAGEMENT: TERRESTRIAL

COCKSCOMB BASIN WILDLIFE SANCTUARY (CBWS)

Active patrols continued throughout the year using the Spatial Monitoring and Tool (SMART) to collect data. Patrols took staff to the Sale Si Puede, Cabbage Hall fire Lookout, Mexican Branch, Snook Eddy, Juan Branch and Double Fall areas of the CBWS. Staff continue to provide visitor information and awareness of the importance of the site. They also assist ed the research and monitoring and environmental education programs as necessary.



Staff and Police on partrol CBWS



Heat map, showing patrol desnity CBWS

13
Patrols conducted

Patrol outcome:

- Hot spots for logging monitored
- Logging was detected outside the boundary line
- Three persons were encountered but were in possession of a logging permit
- Hotspots for illegal hunting identified
- One arrest for illegal hunting & illegal entry

INFRASTRUCTURE & MAINTENANCE

Key improvements:

1. Upgraded bridges & stairs on the living cycle trail (GNP)
2. Repaired boardwalk and restroom (CTWS)
3. Installed interpretive and safety signs along the trails (SHBHNP)
4. Commenced expansion of restroom (SHBHNP)
5. Constructed concrete platform & installation of solar panels (CBWS)
6. Repaired bridges along Victoria Peak Trail (CBWS)
7. Enhanced railing, built bridge & erected safety barrier at plane wreck trail (CBWS)
8. Constructed & mounted new entrance gate at White House (CBWS)
9. Installed new solar system (HMC)
10. Water tower repaired (HMC)
11. Picnic tables maintained (HMC)
12. Camp ground facilities upgraded (HMC)



Installation of sign (SHBHNP)



Picnic bench repair (HMC)



New barrier gate at (CBWS)

INFRASTRUCTURE & MAINTENANCE



Upgrading of Bridges (GNP)



Solar system installation (HMC)



Kitchen construction CBWS



Plane Wreck trail upgrades (CBWS)



Repair of boardwalk (CTWS)



Restroom expansion (SHBHNP)

WILDLIFE CROSSING SIGNS: SHBHNP AREA

Over the last year our team from SHBHNP noticed an increase in wildlife road kills, especially in the two miles buffering St. Herman's Blue Hole National Park. This of course became very concerning for the staff who witness these unfortunate incidences firsthand. Among the wildlife hit by vehicles this year in the area were Baird's Tapir, Puma, Yucatan Black Howler Monkey, Tayra and several species of snakes.

Together with the Manzanero family from the Ringtail community, staff decided to embark on a wildlife crossing road signs project. The Manzanero brothers volunteered their time and artistic talent to paint the signs and the staff erected the signs along the Hummingbird Highway in hopes of catching the attention of drivers cautioning them to slow down or be on the lookout for wildlife crossing in the area. We commend the staff at SHBHNP and the Manzanero family for their efforts and genuine concern for wildlife protection.



SHBHNP team erecting widlife crossing signs



Staff moving puma hit by vehicle along the highway



Yucatan Back Howler Monkey - Hit by vehicle near SHBHNP

STAFF TRAININGS

1. Special Constable
2. Customer Service
3. Bird banding
4. Bird Identification & eBird
5. Drone Operation
6. Stony Coral Tissue Loss Disease (SCTLD) - Coral treatment & application
7. Boat handling and navigation
8. Turtle nest monitoring
9. Vessel boarding for compliance of Fisheries regulations
10. Fisheries enforcement
11. Data collection using Spatial Monitoring and Reporting Tool (SMART) Device
12. Raptor Identification



Staff participating in drone operation training



Staff customer service training at HMC



Staff displaying special constable certificates



SCTLD treatment training



Assistant Terrestrial BRMO certified as Asst. Bird Bander



Biodiversity Research & Monitoring

BIODIVERSITY RESEARCH & MONITORING

Following 2020's upheaval of the norm, 2021 continued as a year filled with uncertainty having unprecedented societal, economic and environmental challenges due to COVID-19. Nevertheless, our programme efforts continued across our co-managed sites as well as other national areas of focus outside of our protected areas. Biodiversity and ecosystem monitoring remain as pivotal conservation tools used to inform protected areas management. For second year in a row, the citizen science activities (Global Big Day, Urban Bird Watch and Christmas Bird Count) were affected, with only one being conducted- the Cockscomb Circle for the Christmas Bird Count. Highlighted here are only key activities.

Interest in research at the protected areas was regained and a total of three scientific proposals were received to commence studies in 2022.

Marine Monitoring

Queen Conch Monitoring

Queen Conch continues to thrive within the boundaries of LHRA which is a prime nursery ground; however, this CITES listed species remains as a highly sought-after marine product across its range. The harvesting season runs for 9 months from 1st October to June 30th of the following year. However, the high demand often results in the illegal extraction of juveniles and the black-market trade continues to threaten regional populations.

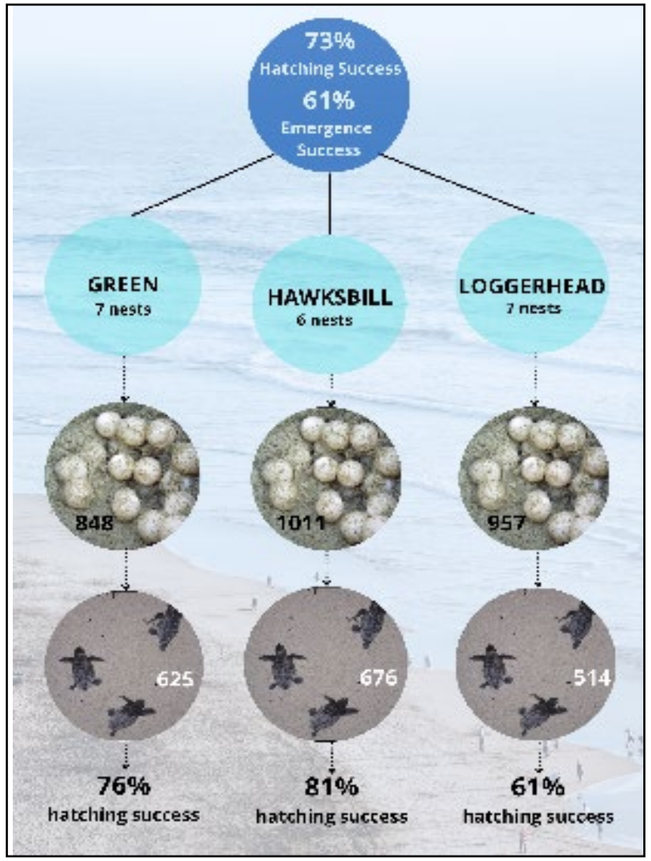
It must be noted that the 2021 pre-season data is not a true reflection of usual trends as data collection was limited due to staff being exposed to COVID-19. Only 7 sites were monitored.



Sea Turtle Nesting

Turtles continue to nest on the beaches within the LHRA. Along the HMC southeast beach, nesting activity was recorded during the nesting season for the three turtle species. Majority of the nests were found on this side of the island compared to the west (sunset beach). In 2021, there were no significant changes of the beaches to impact nesting activity.

Compared to previous years, this year, the critically endangered Hawksbill had the highest total number of eggs laid. Although it had the least number of nests, it had the highest hatching success rate, but the second lowest emergence success rate. Over a four-year period, the success rates have been most stable in Green, followed by the Loggerhead sea turtles.



20
Nests recorded during May - November

2816
Total eggs laid

1815
Total eggs hatched

Coral Disease

After having confirmed the lethal Stony Coral Tissue Loss Disease (SCTLD) at LHRA in September 2020 at the northern most tip just outside of the atoll, it became widespread throughout the atoll in 2021.



After doing a full assessment of coral species susceptible to SCTLD, sites with the highest susceptibility were noted. Monitoring involved disease tracking and determining prevalence. Data is collected using the roving diver methodology at pre-selected sites and benthic coverage assessment are done for comparison purposes to demonstrate the direct effect of SCTLD to the reef.

While the source of SCTLD is not known, research has proven that treating an infected colony with antibiotic, can halt progression of the disease. Some key sites were demarcated for subsequent treatment which started at two sites (popular diving locations) in November. Those are HMC Wall (11 sites) and Aquarium (12 sites). Species treated included the giant brain coral, boulder star coral, and lettuce coral. For a full view of all affected sites in the region and Belize, visit agrra.org.

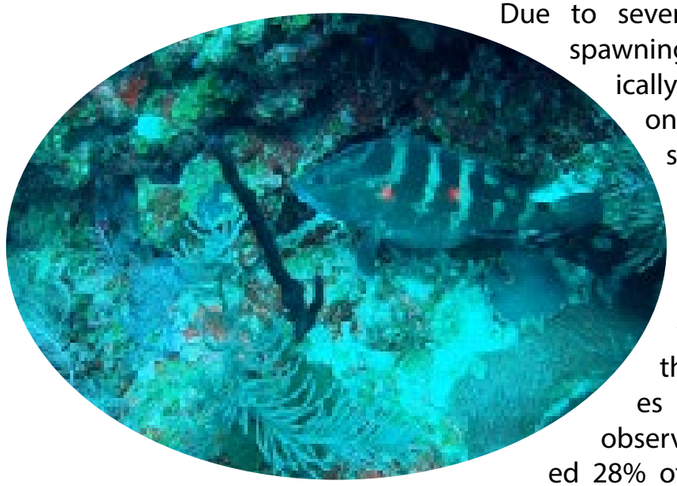
Coral Bleaching

Coral Reefs face many threats/stressors and coral bleaching, is just one. The zooxanthellae algae is expelled in response to stress and in the case of coral bleaching, it is often as a result of extreme heat.
At LHRA the most severe bleaching year to date is 2017 with 40% of all corals surveyed exhibiting either partial or whole bleaching. In 2021, over 90% of corals surveyed at 8 sites were unaffected by bleaching. Monitoring was conducted in October and November; and results showed that of each of the most affected species recorded, only 2% in October and 1% in November were affected.



Overall, 12 species were affected with the highest percentage bleaching exhibited in Boulder Star Coral. In October, the Lettuce and Mustard hill was most affected. In November, the Mustard hill and Boulder star coral were most affected.

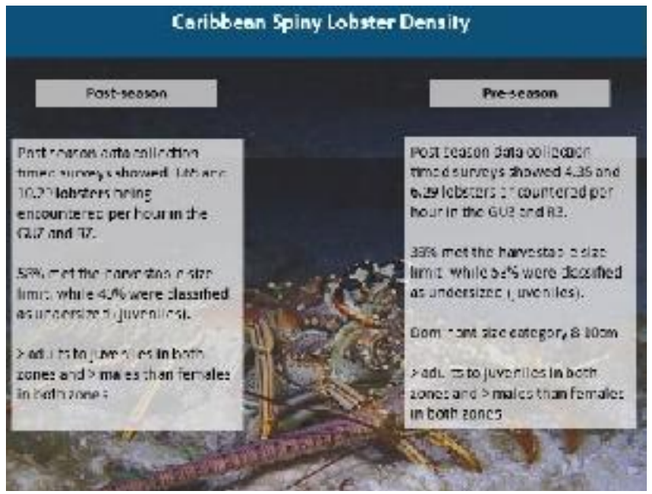
Spawning Aggregation (Nassau Grouper)



Due to severe weather conditions in February, spawning aggregation monitoring for the critically endangered Nassau Grouper was only conducted in January. The results showed an average fish count of 600 amongst the divers. Spawning behaviour of the Nassau Groupers noted were gravid bellies and color changes and a total of 29 fishes were sexed & sized. Majority were on the higher spectrum of the size classes and more females than males were observed. Size class 501-550mm represented 28% of total. Other fish species seen were Yellowfin grouper, Black grouper and Crevalle jacks.

Caribbean Spiny Lobster

In 2021, the method for monitoring lobster was changed to timed surveys. This year also marked the notification for change in legislation, whereby the season will now close on February 28, 2022, in accordance with Statutory Instrument No. 128 of 2021. The closed season for Caribbean Spiny Lobster fishery is now from March 1st to June 30th in any year. Belize's closed season is also in accordance with the harmonized regional lobster regulation (OSP-02-09) implemented by the Organization for Central American Fisheries and Aquaculture Sector (OSPESCA).

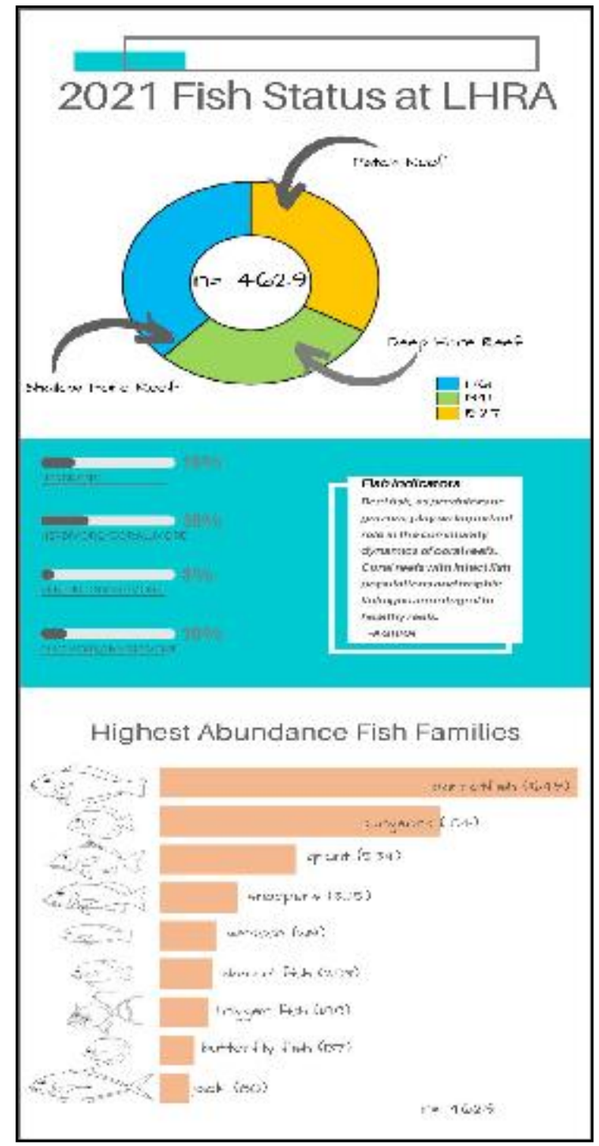


Coral Reef Health

Long-term reef monitoring also includes observations of the benthic composition and the reef fish diversity and abundance. Monitoring sites within the atoll increased from 10 to 21 this year, of which 15 were surveyed.

Benthic composition

Benthos species data focused on composition (diversity), condition, abundance, size-structure, and distribution of these communities. The mean coverage for each category was noted for each reef type. Mean live coral cover was only 10%. Of note, Crustose coralline algae is important for coral recruitment and 2021 saw average coverage decline from 12% to 8% when compared to 2020. Consequently, there was also an increase in biofilms/cyanobacteria and turf which rose from 21% in 2020 to 30% in 2021.

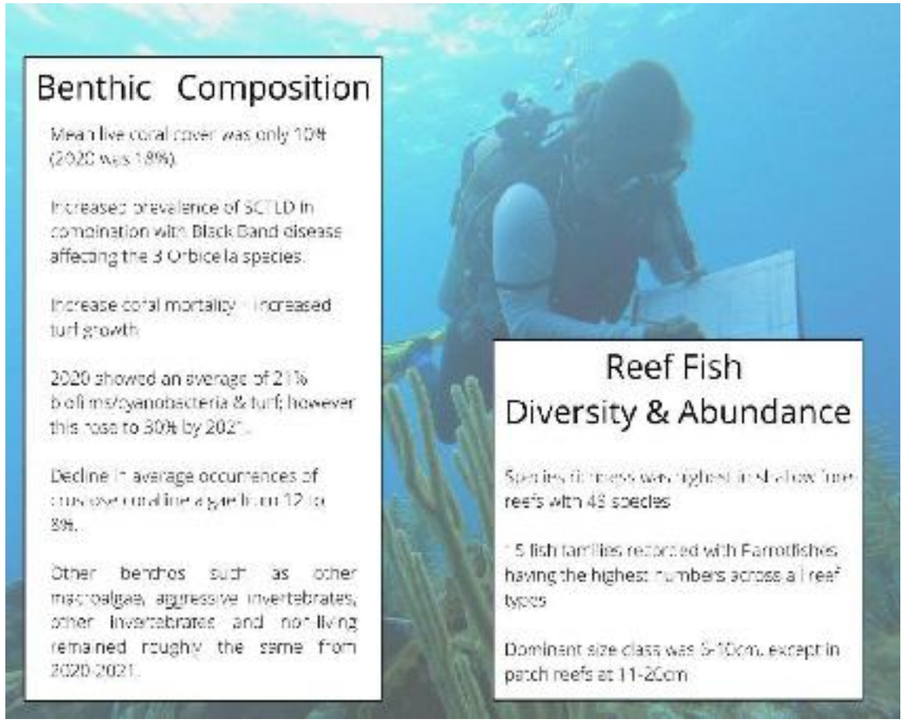


Reef fish diversity & abundance

Results showed that herbivores/corallivores (parrotfishes) had the highest densities per hectare in the deep forereef followed by shallow forereef and patch reefs.

The herbivores (Surgeons) had the second highest abundance.

Shallow fore reef recorded the overall highest for fish abundance. Of note, no fish was recorded over 40 cm across all categories.





Reef health monitoring

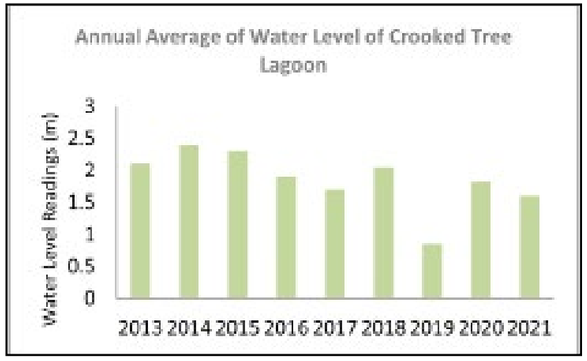


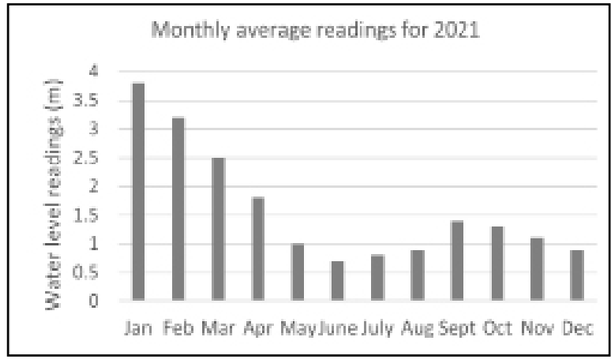
Stoplight parrotfish

TERRESTRIAL MONITORING

CTWS Water Level Reading

In general, monitoring water levels can have numerous environmental benefits and particularly so for the Crooked Tree Wildlife Sanctuary, which serves as sponge for excess water overflowing from the Belize River during flood events. The Metrology Office and BAS continue to monitor the water levels on a daily basis.







The first graph shows the comparison over a nine-year period of which the latter years correspond with 2019 being a drought year and 2020 being one that experienced severe flooding. The average for 2021 at 1.6 m, fell within the range of the previous years. Graph 2 for 2021 shows a normal year's readings for wet and dry seasons at CTWS.

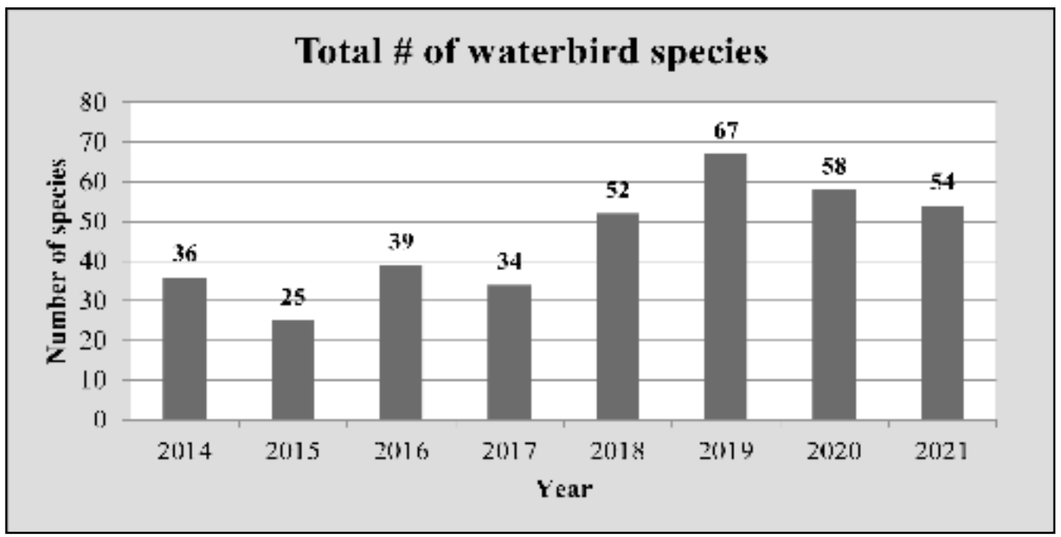
When water levels are low, it attracts hundreds of waterbirds that congregate to feed.

Bird Monitoring: Central American Waterbird Census (CAWC)

We remain as the BirdLife partner in Belize and ensures that the CAWC is conducted annually. The four (4) general locations across three (3) main regions (north, central and south) in the country were surveyed and resulted in 54 species and 3550 individual birds being recorded, which is a decrease compared to the past two years. The top two bird families recorded were Ardeidae (Bitterns, Herons and Egrets) with 13 spp. and Scolopacidae (Sandpipers) with 12 spp. A total of 15 volunteers participated in the count this year.

Besides conducting the CAWC, BAS also provides environmental education to the community schools around the wetlands, emphasizing its importance for conservation during the celebration of World Wetlands Day.

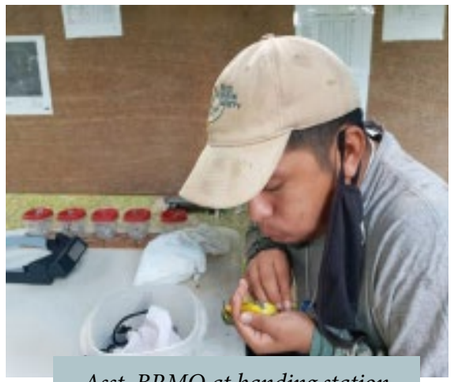
Protected Area	Number of Species	Total Number of Individuals
Corozal Bay Wildlife Sanctuary	26	1335
Crooked Tree Wildlife Sanctuary	20	222
Gales Point Wildlife Sanctuary	13	316
Gra Gra Lagoon	27	281
Hopkins Wetlands	22	1396
[illegible] TOTAL	54	3550



Bird Monitoring: Monitoreo de Sobrevivencia Invernal (MoSI)

As a safe haven for migrating birds during their winter migration from North American to Central and South America, Belize is a well poised winter destination! The MoSI season lasted from Nov 2020 to March 2021. This monitoring effort continues to be led by the University of Belize-Environmental Research Institute and supported by its partners like the Belize Audubon Society for the different MoSI stations (Black Rock Lodge, Runaway Creek Private Reserve, Freshwater Creek Forest Reserve, Cockscomb Basin Wildlife Sanctuary, and the TIDE Private Protected Lands).

Five seasons have been completed so far which has shown interesting trends on site specific data and forest connectivity.



Asst. BRMO at banding station

Seasonal Highlights

- Total 386 captures
- Of a total of 20 target species to be caught in Belize, BRL had the highest (16) and CBWS the second highest (13)
- 33 recaptured migrants and 44 recaptured residents
- 5 migrants and 11 residents were common across all stations

Popular Captures

Migrants: Wood Thrush, Kentucky Warbler, Ovenbird, Gray Catbird

Residents: Greenish Elaenia, Tawny-winged Woodcreeper, Ochre-bellied flycatcher, Red capped Manakin, Red-throated Ant-tanager

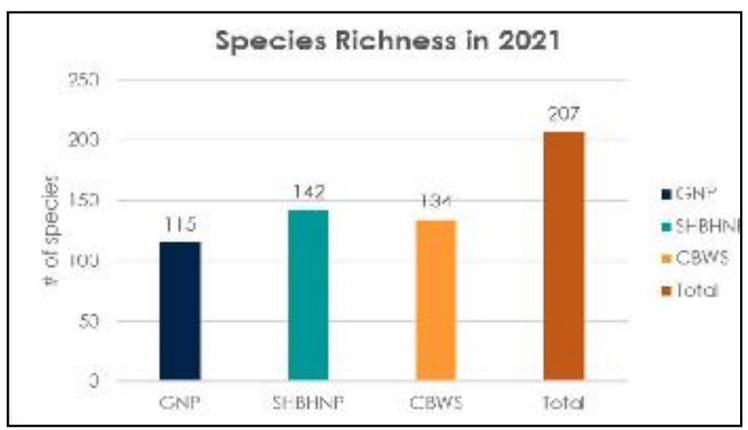


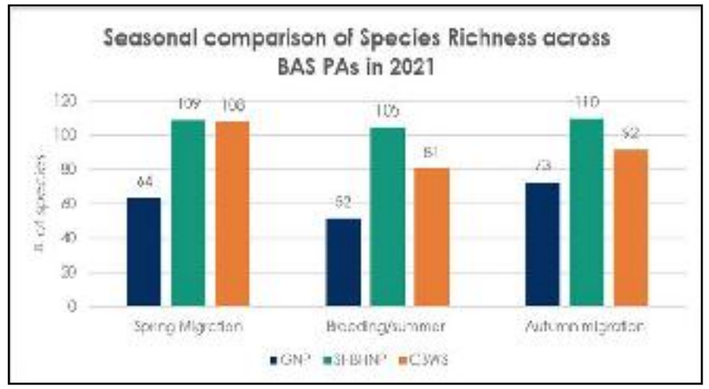
Programa de America Latina para Aves (PROALAS) via point count

The importance of birds in our environment and thus to humans, cannot be overstated. Birds serve as key indicators of environmental health and for BAS, it's an indication of the health of our protected areas—the forest, wetlands and waterways. In 2020, the monitoring protocol was changed to PROALAS because of its added benefits to our monitoring efforts.



Overall, 2021 was a good season with over 200 species of birds being recorded, majority of which were migrants. There were twenty (20) species with the highest occupancy and detection rate while four (4) species had the least occupancy and detection rate.





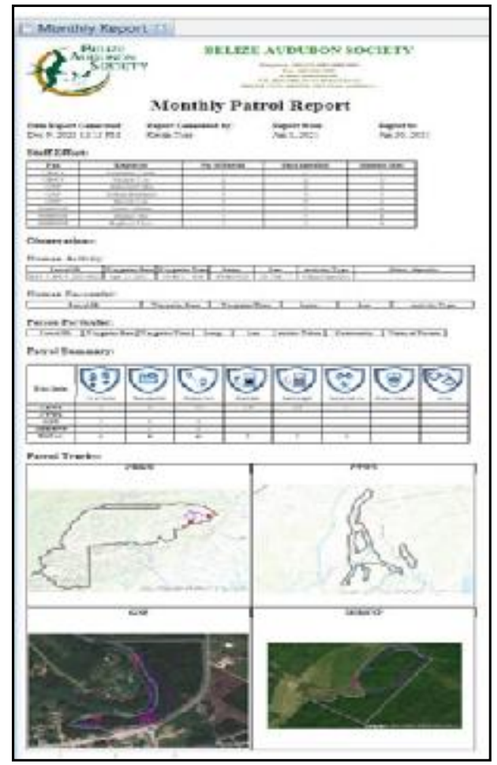
Seasonal Highlights

- ***207*** birds were recorded across all seasons
- ***85%*** were migrant species (n 173)
- ***14%*** were resident species (n 30)
- Overall ***Spring migration*** had the highest species richness (n 164 spp.)
- ***St. Herman's Blue Hole*** had the most recorded species (n 142spp.)
- ***Autumn migration at SHBHNP*** had the highest recordings when looking at seasonal comparison of species richness across all 3 PAs

Geographic Information System (GIS) & Spatial Monitoring and Reporting Tool (SMART)

The GIS and SMART, remain as tools for monitoring biodiversity. The GIS continues to be used for both marine and terrestrial components of the BR&M Programme and to support the Protected Areas and Environmental Education Programmes in producing maps and statistical reports.

As technology advances with SMART for natural resources management and biodiversity monitoring, we continue to set systems in place to become more proficient in the use of the SMART devices and generating reports. We continue to improve the data model for the terrestrial protected areas and explore using the device to collect biodiversity data. This year focused on more training for staff using SMART.



Environmental Education Programme

ENVIRONMENTAL EDUCATION



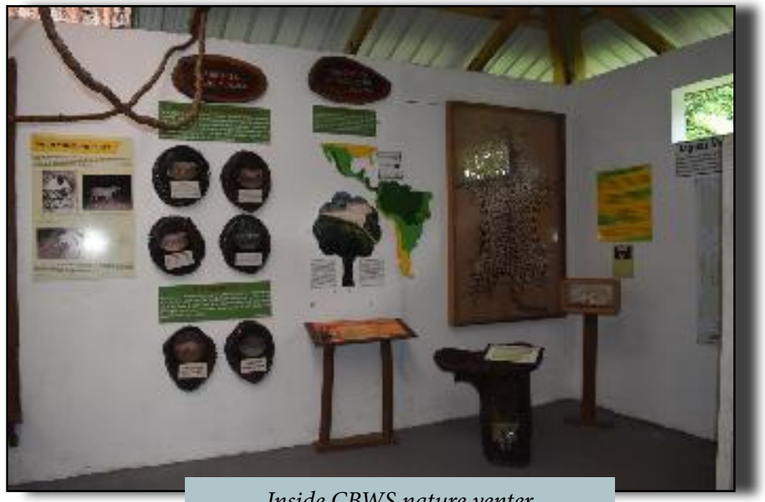
The protected areas in our care continue to be used as outdoor classrooms and centers for conservation awareness. This year the education and the protected areas team worked though various projects to improve nature interpretation signage and the nature center at CBWS and SHBHNP.

Interactive signs on the trails within the parks play an important role in engaging visitors to think critically and make those important connections to nature, livelihoods and people.

The Lowland trail and Hummingbird loop at SHBHNP were all updated with signs to aid with nature interpretation and scientific monitoring currently being carried out within the park.



The nature center at Cockscomb is used by visitors and tour guides on a daily basis to get a better understanding of the history of the world's first jagar preserve. Reconizing its importance for education ,the nature center was updated with funds from Panthera and National Audubon Society. The jaguar research displays were updated with new information from ongoing jaguar research and the walls were repainted with murals depicting the forest making it more brighter and appealing.



Inside CBWS nature venter

The additional displays were also given a refresher and a new poster to better explain the significance of Dr. Alan Rabinowitz's research work which lead to the establishment of Cockscomb as protected area.



The history of how the world's first Jaguar preserve was established has long been a topic used by the BAS education & outreach staff to engage the public to learn about the importance of CBWS and support conservation. This year with funding from Panthera through a private donors, improvements were made at CBWS to the nature center, plane wreck trail and the renaming of Antelope Trail to Balum Trail (Mopan Maya for Jaguar).

The Balum Trail was fitted with signs telling the story of Dr. Rabinowitz's time spent at Quam Bank (the area now known as the CBWS head quarters) studying jaguars. Excerpts from Dr. Rabinowitz's book--"One man's struggle to establish the worlds first jaguar preserve", was used for the information on the signs. We hope that this new trail will be a point of interest for visitors and students to learn more about the history of CBWS.

OUTREACH & ENVIRONMENTAL EDUCATION

Over the summer we participated in the National Library Service Camp at three libraries in Belize City. Those educational sessions allowed us to interact with children and youth between the ages of 6 to 17 years old. We used the opportunity to continue our single use plastics phase-out awareness campaign.

Participants learnt about the global plastic pollution dilema and what small everyday actions young people can do to help with reducing the use of plastics at home and in their community.

The happy campers were excited to learned about marine pollution and microplastics through educational videos, recycled art and our plastic pollution discovery bucket.



EEO teaching about microplastics



Campers enjoying the discovery water bucket

Inspiring conservation leaders through protected areas aware-



Youths from CBWS buffer communities hike to Ben's Bluff



Youths from SHBHNP area exploring

The next generation will not only inherit what we leave behind, but they must be equipped with the knowledge and skills to do better in caring for our environment. It is with this goal in mind that we set out to engage young people and other community leaders in conservation awareness.

Our approach focused on firstly identifying groups that were organized and had a mission to do community service and protection of the environment. This led us to meet two youth groups from around the CBWS and a group of young people from around SHBHNP who were passionate about conservation. They were then invited to share with us some of their goals as a group and what they wanted to do for their respective communities. This first step laid the foundation for a six-month engagement with the youths to build their knowledge and appreciation of protected areas. BAS and the youths did community clean up campaigns and tree plantings as well as a brain storming session to develop a plan for future community projects. In addition, through experiential learning -- and facilitated workshops the target groups were exposed to the importance of water resource protection, water quality monitoring, bird identification, mammal monitoring, forests, and climate change. Each workshop was done on site at CBWS and SHBHNP allowing the participants to explore the protected areas. A total of 23 youths participated in the workshops and awareness sessions.



Maya Center Adventure club meeting

REEF PROTECTORS

Program Goal: Raising awareness on marine protected areas through the implementation of a conservation-based, out-of-school educational program for youths.

Donor: Belize Marine Fund (of the MAR Fund)

Objectives:

1. Improve local awareness and stewardship of Belize's reef ecosystem
2. Introduce and provide practical experience in marine research and monitoring methodologies
3. Expose participants to career options alternate to fishing

MEET THE NEW REEF PROTECTORS



New cohort of Reef Protectors

A new cohort of 15 youths were recruited between October and December for the 2021-2022 reef protectors program. Four young ladies and eleven young men will spend the next 18 months learning about marine conservation through a combination of practical and inclass sessions.

They will get to experience marine protected areas first hand through field trips and interaction with marine conservation leaders. During our first two meetings in December, the participants and their parents were oriented on the program schedule and got to meet the BAS staff who will be leading the program.

One of the significant acheivements this year was the development of a Reef Protectors program manual for staff. This manual captures the details of the program, safety procedures and important learning outcomes for the program.



GREEN SCHOOL GRANTS

After consulting with the three primary schools in the targeted fishing communtities of Chunox and Copper Bank, it was evident that they were concerned about proper waste disposal and had a strong desire to continue encouraging proper waste management among their student body. This was used as the enabling environment to offer support to the three schools to complete their waste management projects which started earlier in the year. A grant of one thousand dollars was given to each school for their projects and within a few weeks, they fenced ,painted and placed garbage bins on campus .



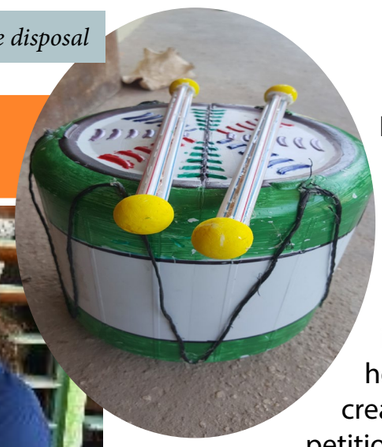


Improvements at schools in Chunox & Copper Bank for waste disposal

PLASTIC ART COMPETITION



Education Director presenting Mr. E Montalvo with 1st prize



In celebration of reef week and to further encourage reduction of the use of plastics in the household, a plastic creative art competition was launched for primary school students in the communities of Chunox and Copper Bank. The task was to make a musical instrument out of plastic items found in the household and submit a short video describing your instrument and demonstrating how it works.

WORLD WETLANDS DAY

When we think of World Weltlands Day (WWD) at BAS, we think Crooked Tree. The country's largest inland fresh water wetland complex. Covering over 16,000 acrea of logwood swamps and lagoons, a stonghold for waterbirds and water storage. For those reasons and many more, CTWS was designated a wetland of international importance under the RAMSAR convention in 1998.



This year we were unable to celebrat as we did in previour years. We missed the engagement with buffer communities of CTWS and of course the children. But like many things we learnt through the pandemic, we must adapt and explore other means. This year we ran a short social media awareness campaign to inform and educate about WWD. Highlights of the Crooked Tree Wildlife Sanctuary was shared via social media for the month of February under the theme "Wetlands and water".



"Greening Across Belize- Earth Day"

Another successful Greening Across Belize! With the usual excitement of people flocking our main office and Guanacaste National Park to collect their free trees, we have to bank this one as another success.

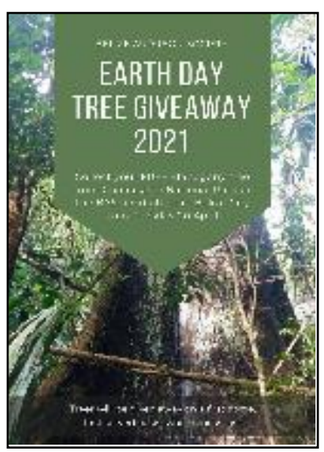
We also organized tree planting activities in celebration of Earth Day with community youths from Armenia, Red Bank and Maya Center. It was fun to watch these excited participants beautify their communities with mahogany and other shade trees. A total of 500 trees were distributed and 18 trees planted with communities during the weeks leading up to Earth Day 2021. Clean-up activities were also done with these youths, showing their commitment to serving their community and leadership.

500
Trees distributed to the Public


Tree planting with Armenia youths

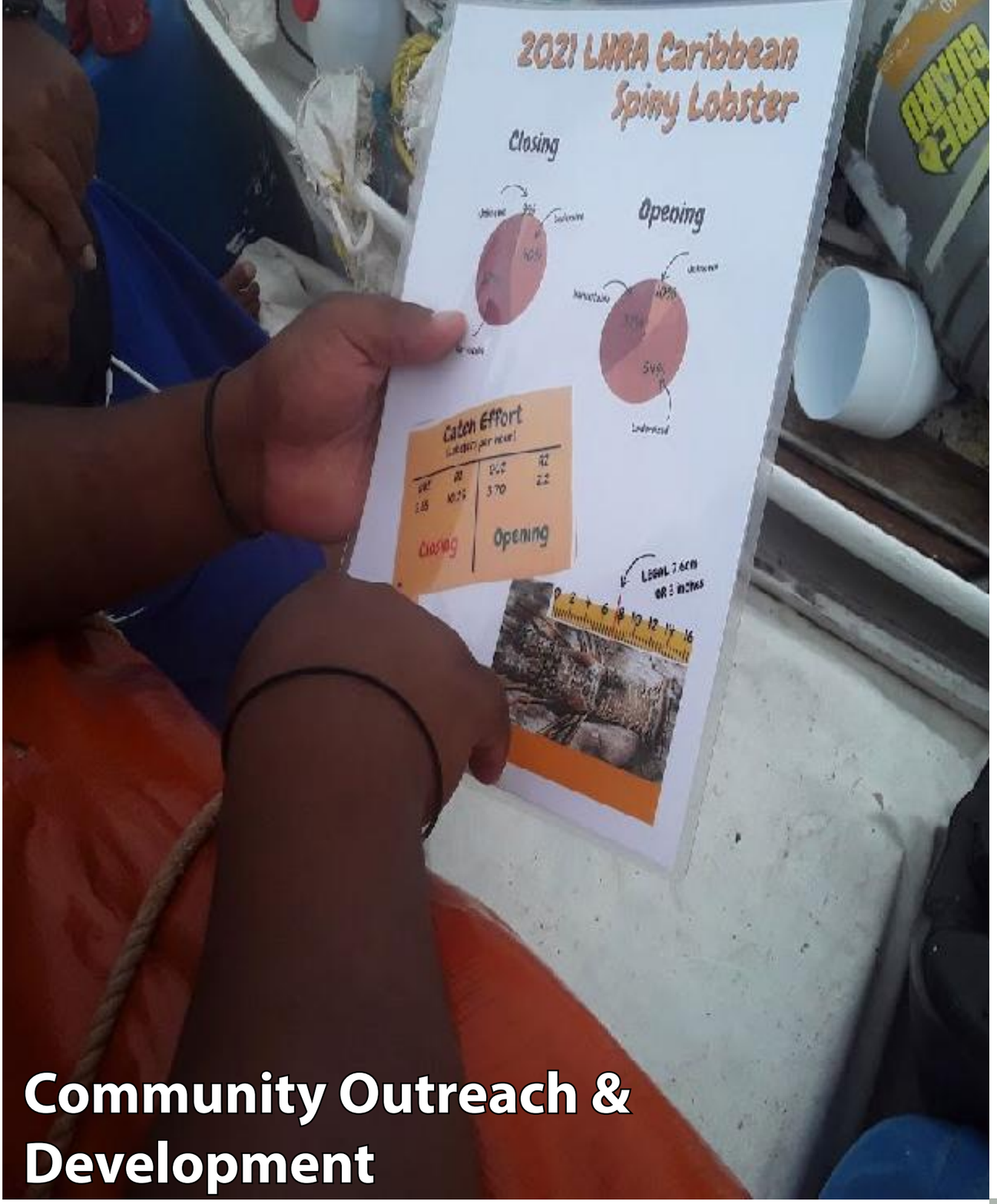


The free tree giveaway was promoted on social media & was viewed by over 10k followers.









Community Outreach & Development

COMMUNITY OUTREACH & DEVELOPMENT

The impacts of the Covid-19 pandemic continued to impact the lives and livelihoods of buffer communities and stakeholders dependent on natural resources surrounding protected areas. However, through our community outreach we promoted sustainable livelihoods by engaging buffer communities in income diversification opportunities. Additionally, the governance structures and capacities built through skills trainings of buffer community groups were improved. No doubt this year, BAS enhanced its support for its conservation work through the strengthening of partnerships and robust community engagement strategies.

PROJECT	SUMMARY OF RESULTS
Project: Biopama ***Improving communcation and governance with stakeholders of LHRA.*** **Project beneficiaries:** **BHNM/HMCNM** stakeholders	The Boat to Boat (B2B) outreach targeting fisherfolk of LHRA raised awareness on the importance of managed access and fisheries regulations, as well as sharing information of fisheries data. The B2B continues to prove successful for improved communication and intelligence gathering. Thirteen fishing vessels and 97 fisherfolk were reached at Lighthouse Reef Atoll (LHRA) during the opening of lobster season. This activity promoted awareness of fisheries regulations and health of the lobster fishery at LHRA.

HIGHLIGHTS:

97
Fisherfolk Engaged

ELEMENTS:



CLO conducting Boat to Boat outreach at LHRA

PROJECT	SUMMARY OF RESULTS
Project: BIOPAMA Improving communication and awareness with targeted stakeholder groups of CBWS. **Project Beneficiaries: CBWS** stakeholders -- Maya Center, Maya Mopan, Santa Rosa, San Roman, Santa Cruz.	The Cockscomb Basin Wildlife Sanctuary Advisory Committee (CBWSAC) was established through this initiative. The committee serves as a platform for information sharing, discussion of issues and concerns and provision of recommendations for the sustainable management of CBWS/VPNM. The first meeting of the CBWSAC was held in December and the first item on the agenda was to establish the membership and the roles and responsibilities of the group.

12

stakeholders continuously engaged and involved to bridge communication & participation gaps





First sitting of the CBWSAC

PROJECT	SUMMARY OF RESULTS
Project: ***"Developing organisational capacity for ecosystem stewardfish and livelihoods in Caribbean small scale fisheries (StewardFish)*** **Donor:** *CANARI* The **goal** of the Stewardship project is to empower fisherfolk organizations through fisheries value chains to engage in resource management, decision making and sustainable livelihoods. **Project Beneficiaries: Nation Fisherfolk Organization** -- *Belize Fisheries Cooperative Association (BFCA)* Belize Fishers Cooperative Association (BFCA), Hopkins Fisherman Association, Sarteneja Beach Trap Association	This year the Belize Fishers Cooperative Association (BFCA - NFO) and two of its umbrella fisherfolk associations (FFOs) participated in a virtual site visit of HMCNM and BHNM where they garnered ideas to develop action plans that will promote ecosystem stewardship services in marine protected areas. **Key Results:** • Both the Hopkins Fishers Association and the Sarteneja Beach Trap Association were awarded $4000.00 to implement their action plans that included water quality monitoring and beach cleaning of sargassum in their respective communities. • BAS also assisted in the development of a Communications Strategy and Action Plan for the fisheries sector in Belize through this initiative.





Hopkins Fishers Association participate in planning meeting, beach assessment and beach clean up

James A. Waight Award Winner:
Celso Poot



In February this year, Celso Poot, Managing Director of The Belize Zoo and Tropical Education Centre, and Belize Tapir Project, was awarded the prestigious James A. Waight Award in our first ever virtual award ceremony.

Membership

35th Annual James A. Waight Conservation Award

The James A. Waight Award, now in its 35th year, has been hosted annually by BAS and is a celebration of outstanding work in the conservation of Belize's natural environment. Historically, the award has been presented at a dinner event, offering BAS members a chance to come together, network, and feel connected to the Society, as well as to celebrate the winner. In light of the COVID-19 pandemic, the award ceremony was delivered virtually, via a live stream on Facebook and YouTube. The statistics provided through Facebook demonstrate one of the major benefits of a virtual ceremony – the ability for people to watch it after the event, as well as watching live.

In total, six nominations were received and reviewed by the judging committee, with the nomination criteria being used to determine that this year's winner Mr. Celso Poot of the Belize Zoo and Tropical Education Centre, and The Belize Tapir Project.

Getting to Know Celso Poot



Photo courtesy of Celso Poot

"Celso has independently contributed unprecedented research and in-situ conservation efforts for the Central American Tapir. His work began in 2008 with monitoring incidences of tapir fatalities due to vehicle collisions on the Burrell Boom Road in the Belize District. His personal interest in tapirs in the area was eventually refined into substantive research and practical application through a Master's Degree he attained from Miami University." ***excerpt from Jamal Andrewin Bohn, friend and colleague of Celso Poot.***

"I live in San Ignacio, but I'm originally from Roaring Creek – Guanacaste National Park used to be one of my playgrounds growing up! I went to Belmopan Comprehensive School and Belize College of Agriculture, I studied my undergrad at Galen University, did my Masters at Univeristy of Miami and I am now undertaking my PhD at the University of Florida. I enjoy the outdoors, I like playing and watching football, I like snorkeling… and the outdoors is my office!

I started working at the Belize Zoo and Tropical Education Centre (TBZTEC) in 1995 as an environmental educator, and since then I have worked in different departments. Education has always been my passion; that is what I started out with and that is where I saw I was making a difference. Working with Belizean youths and students, exposing them to the environment, teaching them about conservation, that is what really captured my attention. TBZTEC has been my home, I grew up and matured here, and I've even seen students I've worked with mature and grow into conservation professionals themselves during my time here." ***Celso Poot James A. Waight Award winner 2021.***

52nd ANNUAL GENERAL MEETING

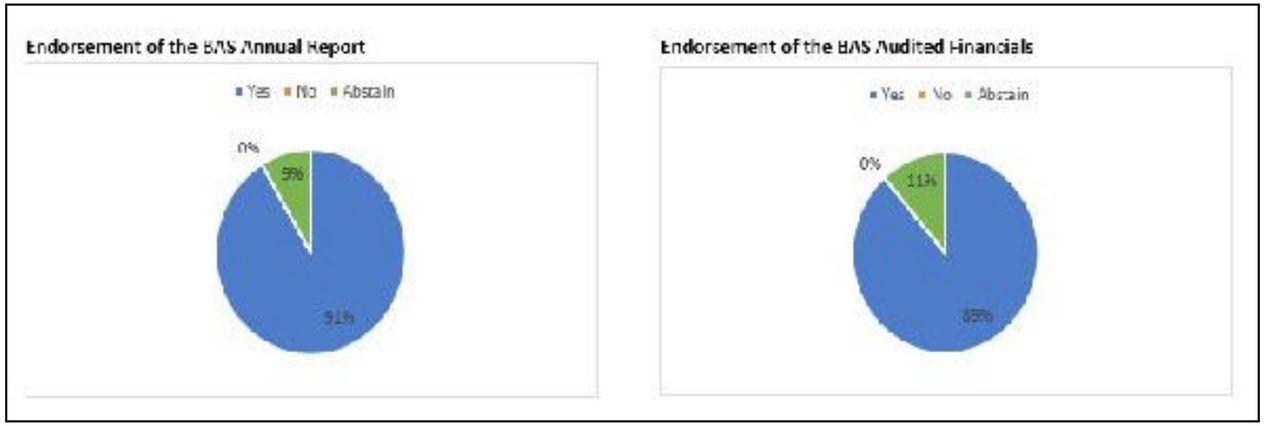
For the second year Belize Audubon Society held its Annual General Meeting in a virtual format. The 52nd AGM took place on Thursday 27th May via a pre-recorded video broadcast. Prior to this, members were communicated with via email and social media to provide them with all the necessary AGM documentation, and the nomination form for the vacancies on the Board of Directors. Following the broadcast, members were provided with a link to an online voting form, where they were asked to endorse the 2020 Annual Report and Audited Financials, and vote cast their votes.



Mr. Earl Green was appointed as President. The position of 1st Secretary was unopposed, and Ms. Rasine Gillett was endorsed for this position. Five nominees were put forward for four vacant Director positions; after which Mrs. Virginia Burns Perez, Mr. Francis Canto Jr., Mr. Randal Taylor and Mr. Ishmael Quiroz were elected.

BAS thanks Mr. Lascelle Tillett for his many years of service on the Board of Directors and as an active member.

The virtual AGM was concluded with an email to members to confirm the results with a breakdown of the votes, and a press release announcing the results via BAS' social media accounts and sent to local media outlets.



With the quorum, the audited fiancials and annual report were approved by a majority vote.

Membership Stats

At the start of 2021, BAS had 185 active members (in good standing). The active membership as of 01 December stands at 118, which is a 36.21% decrease on the previous year. Despite an overall decrease in member numbers, the renewal rate has actually improved year-on-year, from 38.4% in 2020, to 50.27% this year. This is still nowhere near where it needs to be, but with a combination of people generally being hard-hit by the COVID-19 pandemic, the BAS website not being live, and a lack of both membership manager and very few membership events throughout the year, it is perhaps not surprising. A total of 25 new members have joined BAS in 2021, with many of these coming from sign-ups at the Protected Areas.

Membership statistics 2021

Active Members 01 December 2020	185
Active Members 01 December 2021	118
Increase/Decrease in Membership	-36.21%
Expired & Not Renewed Dec 2020 - Nov 2021	92
Renewals Dec 2020 - Nov 2021	93
New Members Dec 2020 - Nov 2021	25
Renewal Rate Dec 2019 – Nov 2020	38.4%
Renewal Rate Dec 2020 - Nov 2021	50.27%
Total Value of Membership 2020	Unknown
Total Value of Membership 2021	$18,484.74
Increase/Decrease in Value of Membership	Unknown

E-COMMUNICATIONS

Staying connected!



Throughout the course of the year we contined to rely heavily on the use of social media (Facebook, Instagram, YouTube, LinkedIn) and mass email (using Campaign Monitor) to inform, engage and provide updates to our members, stakeholders and general public. Our current Facebook followers stands at 12k.



In 2021, we moved email service providers from Constant Contact to Campaign Monitor, as Campaign Monitor allows for more personalization in emails, which will eventually mean membership cards can be automatically uploaded to members emails.

This move also meant a redesign of all the email templates, and improvement of databases and segmentation, including adding a tour guide database and non-member database.

Significantly, more emails were sent in 2021 than 2020, due largely to the lack of emails sent prior to the e-marketing review in May 2020, but also the increase in direct updates being sent to tour guides when park opening hours change or other updates need to be announced.





All key statistics show BAS continues to perform above the industry average, with strong open rates, click rates and click to open rates, as well as low unsubscribe numbers. Click to open has improved significantly from last year, indicating more content that entices readers to read more, or take action.

PUBLICITY

5k Trail Run at St. Herman's Blue Hole National Park







The Trailblazer 5k run held at SHBHNP was the first event of its type to be organized by BAS, in partnership with Total Time BZ. The event was fully booked (50 places) within 48 hours of announcing it, and even with last-minute drop-outs, was still attended by 49 runners, with a waitlist being used to fill the vacant spots. Feedback from the participants was extremely positive, and the running community is keen to see more trail running events organized by BAS in the future.





PROJECT:

With the financial support of the European Union and the Organisation of African, Caribbean and Pacific States through the BIOPAMA Programme

Project Title: Improved Management Models at Four of Belize's Highest Priority Protected Areas
Timeframe: July 2020- July 2023
Donor: Biodiversity and Protected Areas Management Program (BIOPAMA)
Project investment: $975,872 BZ

Activities for the year:

1. Marine & Terrestrial biodiversity monitoring
2. Partrols within targeted protected areas
3. Data management system set-up initiated
4. Strategic enforcement plan developed
5. Capacity building for key stakeholder groups
6. BAS five year strategic plan developed

Summary of Key Achievements:

This project will build BAS's capacity to provide landscape and seascape models for effective management and serves as learning centers for other protected areas management organizations in Belize and the region.

Landscape and Seascape Enforcement: The goal of enforcement and surveillance is to mitigate illegal activity within CBWS/VP and HMC/BH . This is done through jungle and marine patrols as part of visitation management and control. To provide a model for strategic enforcement, a series of workshops were held with key stakeholders to develop a Strategic Enforcement plan. The plan is finalized and will be shared as a model for other protected area managers and GOB resource management teams to use.

Advisory Committees (AC): One of the results of the community communication plan implemented this year was the establishing of structured ACs to ensure a communication channel is established. The CBWSAC was successfully established with 12 members from the seven buffer communities of CBWS. A democratic decision was made to hold meetings once per quarter, with their first official meeting held in December of 2021. The role of the AC members and their participation will be key as we aim to improve stakeholder participation in the management of CBWS.

Capacity building of targeted stakeholder groups toward income diversification: Over the course of 2021, the women's group of Maya Center benefited from several trainings, including small business management, sewing and introduction to computer. These trainings were done to improve their income generating capabilities. A donation of 6 sewing machines and furniture was made to the group. In an effort to build the capacity of fisherfolk to venture into bird guiding as a career, a 4-day training took place in December in Basic Bird Guiding and Bird Identification. Eight fishers participated in the training and are looking forward to more engagement to build their capacity in bird identification and guiding.

Biodiversity Monitoring: Marine monitoring activities completed were coral bleaching, conch & lobster surveys, reef health and mapping of Stony Coral Tissue Loss Disease. Terrestrial monitoring completed included, the MoSI bird monitoring at CBWS and water quality testing.





Maya Center Women's Group receiving donation of sewing machines



Fisherfolk participating in bird identification training



Reef health monitoring at LHRA



Maya Center Women's Group participating in small business management training

PROJECT: PROTECTED AREAS CONSERVATION TRUST

Project Title: Improving the management of BAS co-managed protected areas.

Timeframe: March 2019 - June 2022

Donor:
Protected Areas Conservation Trust (PACT)

Partners: Forest Department & National Biodiversity Office (NBIO)

Project investment: $1,160,000 BZ

Activities for the Year:

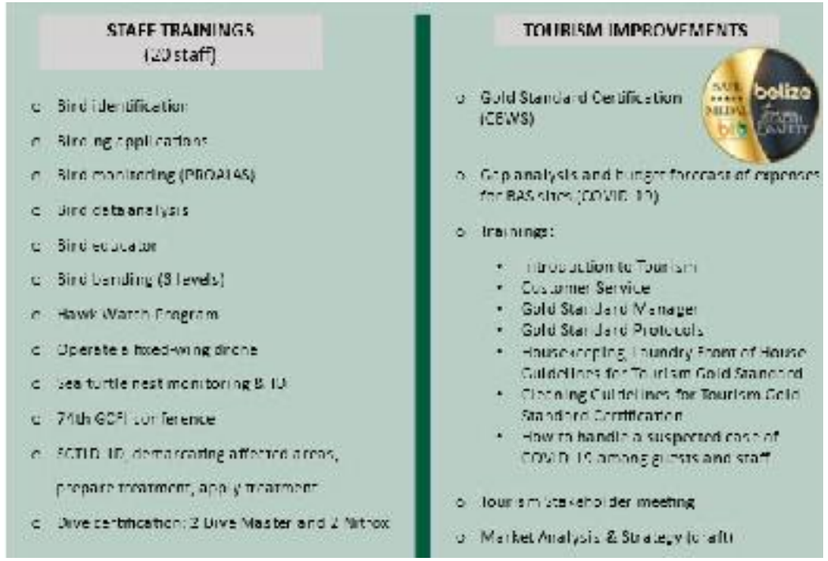
1. Awareness on the value of Protected Areas & BR&M program with buffer communities
2. Initiation of income diversification projects with community stakeholders
3. Research & monitoring equipment procured
4. Trainings in research and monitoring methodologies conducted for staff and key stakeholders
5. Signs printed and installed at SHBHNP
6. Kitchen & restroom expansion construction commenced at CBWS & SHBHNP
7. Tourism officer hired, marketing strategy drafted, stakeholders consulted and Gold Standard Certification acquired
8. Terrestrial & Marine educational book-

Awareness on the value of protected areas: Over the past eight months, the environmental education and research and monitoring staff have successfully coordinated and facilitated a series of activities with three youth groups from the communities that buffer CBWS and SHBHNP. These activities include community consultations and engagement through field-based learning, and skills building.

Construction of new kitchen & dining facility at CBWS: At the inception of the project, CBWS had a small communal kitchen facility with a dimension of 15ft x 25ft. With the construction of the new kitchen, CBWS will now have a larger kitchen facility with a dimension of 32ft x 55ft, thus doubling the size of the current facility.

Expansion of restroom at SHBHNP: Prior to the project St. Herman's had only 1 male and 1 female restroom facility (compost toilet) with a size 10ftx15ft, which was no longer adequate for the demands of the park. As a result of this, the expansion will add an additional dimension of 10ftx36ft to the restroom. This will accommodate 3 female and 2 male flush toilets with two urinals. The facility will also include changing rooms and showers.

PACT
Protected Areas Conservation Trust





Staff participate in bird ID training



Roadside boundary sign SHBHNP



Youths from Armenia learning about SHBHNP



Youths from CBWS buffer communities learning about research and monitoring

Thank you Natalie

We are more than proud to have had such a wonderful, dedicated, go getter volunteer for the past 2 years. Natalie not only fit in perfectly with the team, she contributed to and lead the development of key activities, allowing various programs to meet their objectives. Some of her work included: Revising the BAS Brand Document, Victoria Peak Guidelines, St. Herman's Blue Hole National Park Visitor Guidelines and the BAS Communication plans for the northern and southern buffer communities. Thank you, Natalie! Know that your hard work has left its mark and will continue to help us move to the next level. Best wishes to you as you move on.



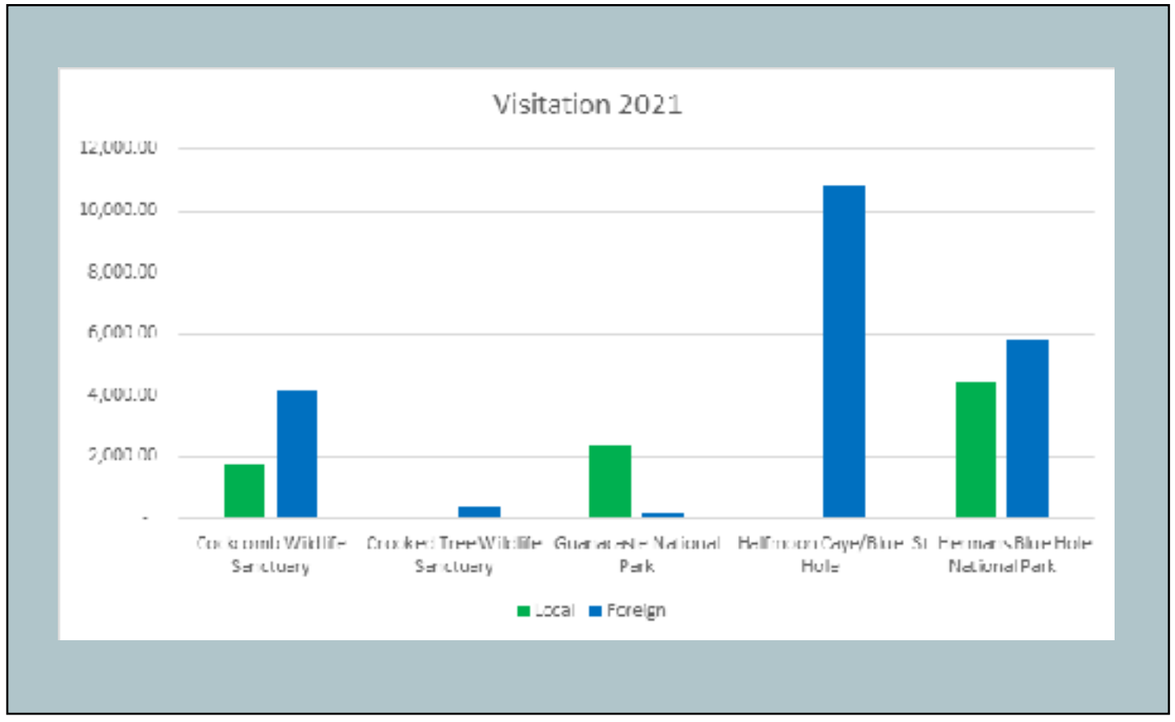
In January 2020, British citizen Natalie Blachford joined the BAS team as a long-term volunteer, initially for a 12 month period which was later extended for a second year. Natalie has been working within BAS' Environmental Education & Communication team on a wide variety of projects, as well as assisting the membership program and managing BAS' social media pages.

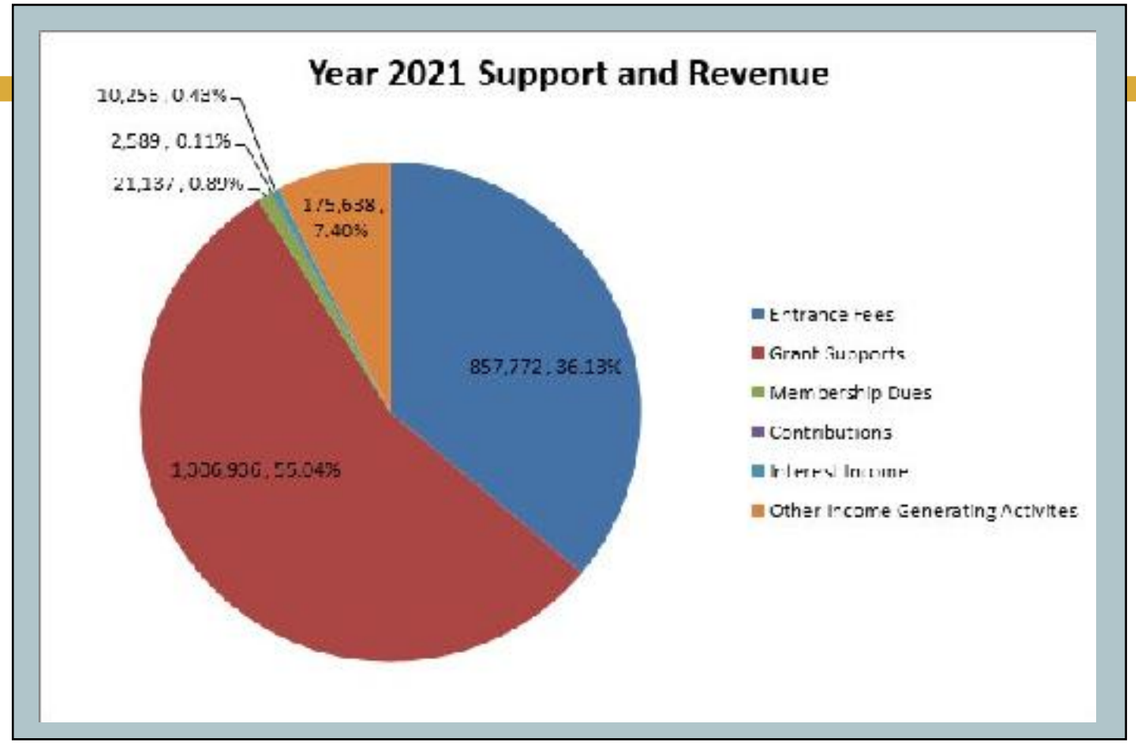


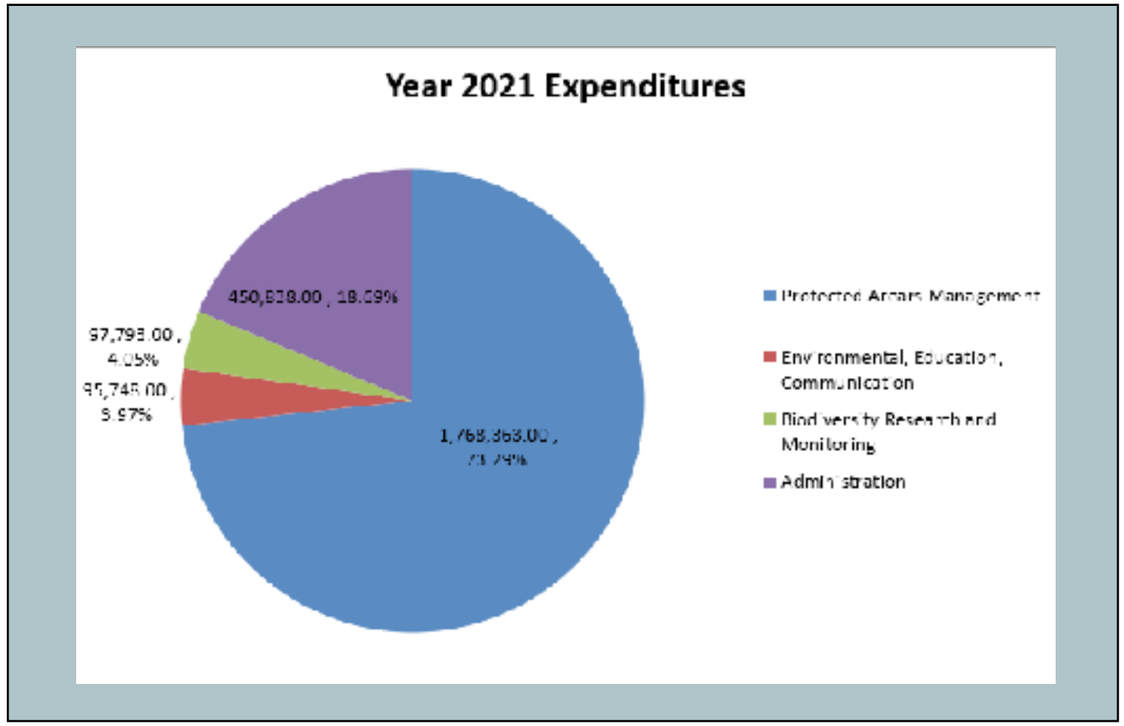
Financials

Financials

The auditing firm has given their unqualified opinion stating no major issues were flagged within the auditing process thus indicating that we were financially stable as of December 31st, 2021. The charts presented below are a summary of visitation statistics; and income and expenditures. Visitation numbers are reflected because entrance fees are traditionally the largest income source for the Belize Audubon Society.









Donors & Partners

We take this opportunity to acknowledge the entities whose support allowed us to accomplish all that we did in 2021.

Networking Entities

Association of Protected Areas Management Organizations (APAMO)
Belize World Heritage Advisory Committee
Belize Sea Turtle Conservation Network
Belize Coalition to Save our Natural Heritage
Belize Network of NGOs (BNN)
Debt for Nature Swap Oversight Committee
National Coral Reef Monitoring Network
Spawning Aggregation Working Group

Our Partners

Belize Bird Rescue
Belize Defense Force (BDF)
Belize Fisheries Department
Belize Forest Department
Belize National Coast Guard
Belize National Fire Service
Belize Port Authority
Belize Tourism Board (BTB)
Belize Tourism Industry Association (BTIA)
Belize Police Department (Special Patrol and Tourism Police Units)
Black Rock Lodge
Buffer Communities of BAS protected areas
Chunox Fishermen Association
Caribbean Culture + Lifestyle (CCL)
Copper Bank Fishermen Association
Corozal Sustainable Future Initiative (CSFI)
Department of Environment (DOE)
MarAlliance
National Biodiversity Office (NBIO)
Panthera (Belize)
BirdLife International
Scouts Association of Belize
Sarteneja Alliance for Conservation and Development (SACD)
Toledo Institute for Development and Environment (TIDE)
University of Belize--Environmental Research Institute (UB-ERI)
Ya'axche Conservation Trust
Wake Forest University

Our Donors

Belize Marine Fund
Debt for Nature Swap (Tropical Forest Conservation Agreement)
Gulf and Caribbean Fisheries Institute (GCFI--NOAA)
Manomet
Mesoamerican Reef Fund-Belize (MARFund)
National Audubon Society – Audubon's International Alliances Program
Protected Areas Conservation Trust (PACT)
Panthera
Association of Zoos and Aquariums
Summit Foundation
World Wildlife Fund (WWF)
European Union and the Organisation of African, Caribbean and Pacific States through the Biodiversity and Protected Areas Management (BIOPAMA) Programme

Photography

All other photos not captioned, ©Belize Audubon Society

Front Cover: Staff and partners in strategic enforcement planning meeting.
Back Cover: Tiger Fern Waterfall, Cockscomb Basin Wildlife Sanctuary

