

**Port Honduras Marine Reserve**

**Annual Report 2012**

**Seleem F. Chan**

**Marine Manager**

**Words from the manager**

It is with pride that I present to you the Port Honduras Marine Reserve (PHMR) annual report for 2012. This report summarizes the main activities that occurred throughout the year.

I am pleased to report the field staff conducted a total of 930 patrols. As a result of these patrols, 2 arrests were made and successfully prosecuted. In addition, 2 fishers were summoned to court, which is still pending. We also confiscated 14 illegally set gill nets within the boundaries of the reserve and 6 outside of the reserve. We issued 5 written warnings to different fishers for different infractions. A total of 9 verbal warnings were conducted as well.

Patrols were conducted jointly with the Fisheries Department, Southern Environmental Association, Belize Defense Force, the Belize Coast Guard, and personnel from other protected areas managed by TIDE. The staff engaged in a rigorous education campaign after the implementation of Managed Access on July 1, 2011. The campaign educated the stakeholders about the new management tool.

A new approach to enforcement will be taken in 2013. This approach will be “hard and fast,” conducting arrests for infractions.

Once again, we would like to express our sincere gratitude to the Belize Fisheries Department, PHMR Advisory Committee, the Belize Coast Guard, Oak Foundation, Summit Foundation, The National Oceanic and Atmospheric Administration (NOAA), Environmental Defense Fund, The Nature Conservancy, Sea Grass Net, New England Biolabs Foundation, MAR Fund, and COMPACT. Our work would not have been possible without the financial contribution and commitment from these partners throughout the year.

I would like to send a heartfelt thank you and special mention to buffer community members of Monkey River, Punta Negra, and Punta Gorda for their commitment and support. I would also like to thank the field and support staff at TIDE for their continued dedication throughout the year.

Sincerely,

Seleem Chan  
Manager  
Port Honduras Marine Reserve

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## 1.0 ADMINISTRATIVE

### Head Ranger Position

In the year 2011, the head ranger position became vacant after Mr. Carlos Ramirez resigned from his duties. On February 21, 2012 interviews were held at TIDE's conference room, and after interviewing four suitable candidates, Mr. Kenley Williams, an existing ranger for PHMR, was selected by the panel.

Mr. Williams was then given the opportunity to act in his new position for a three month probationary period, following standard TIDE procedures. However, during his probationary period, Mr. Williams did not portray the leadership qualities necessary for a head ranger. Expecting to be terminated from his duties due to other matters, Mr. Williams resigned effective July 1, 2012. As a result, Mr. Kenworth Martin, a native fisher from Punta Negra Village who had interviewed when Williams was selected and was recommended by the marine manager, was appointed as the head ranger for the reserve. Mr. Martin has successfully completed his three months' probation and is presently acting in his new position.

## 1.1 STAFFING

### PHMR Enforcement Staff (Table 1)

Name	Position
1. Seleem Chan	manager
2. Kenworth Martin	ranger
3. Narciso Martinez	ranger
4. Edwin Cabrerias	ranger
5. Aaron Garbutt	ranger
6. Jimmy Boucher	ranger
7. Henry Archer	ranger

**Kenley Williams      Ranger (Resigned effective July 1, 2012)**

### PHMR Research Team (Table 2)

1. James Foley	Science Director
2. Marlon Williams	Biologist

3. Gale Mac Nab	Research Assistant
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### Community Researchers and Volunteers (Table 3)

1. Jenivieve Ramirez
2. Victor Williams
3. Dario Williams
4. Willie Caal
5. Gean Castellanos
6. Fernando Rabatu
7. Eugenio Ah Jr.
8. Lolita Jacobs

## 1.2 TRAINING

Developing new skills and increasing your capacity in your particular position at TIDE is an annual activity. Staff members are given the opportunity to participate in trainings on an annual basis. Table 4 below shows the trainings accomplished for 2012. Also Table 5 expresses the training needs for 2012.

(Table 4)

Area of Training	Area of Training	List of Participants
<b>Enforcement</b>	1) Law Enforcement	<b>Entire field Staff</b>
<b>Capacity Building workshops/Trainings</b>	1) Managed Access (assisting fishers in logging of data)	<b>Entire field Staff</b>
	2) Boat Handling and Outboard Engine Maintenance Training	<b>Entire field staff</b>

	3) Managed Access Planning Workshop in San Francisco, U.S.A	<b>Mr. Joseph Villafranco and Mr. Seleem Chan</b>
	4) Marine Protected Areas Managers Meeting at the Belize Fisheries Department	<b>Mr. Seleem Chan</b>
	5) MAR Leadership Program	<b>Mr. Seleem Chan</b>
	6) Bird Identification Training	<b>Mr. Aaron Garbutt</b>
	7) Law Enforcement Training Key West Florida (CAMPAM)	<b>Mr. Seleem Chan</b>
	8) MPA Law Enforcement Training San Francisco, U.S.A	<b>Mrs. Celia Mahung</b>

(Table 5)

<b>RANGERS</b>	Engine and boat maintenance (annually)
	Boat handling training (Port Authority Basic Training)
	Enforcement training (annually)
	Weapons handling
	First Aid Training
	Report writing
	Dive Master Training
<b>MANAGER</b>	Proposal writing skills
	<b>Communication Skills</b>
	<b>Report Writing</b>

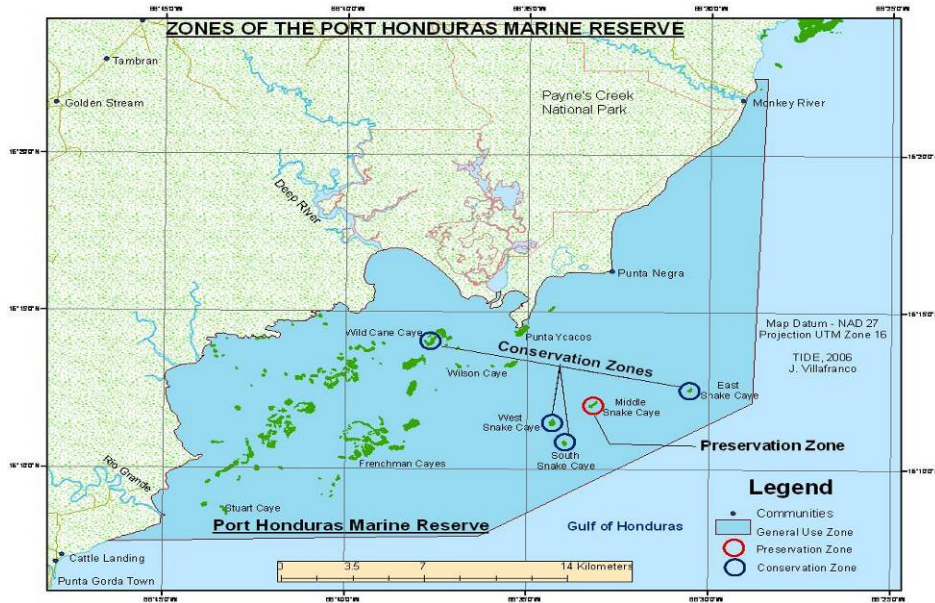
## **2.0 Background of Port Honduras Marine Reserve (PHMR)**

### **2.1 Introduction**

Declared by the Government of Belize in January 2000, the PHMR is being actively co-managed by TIDE and the Fisheries Department. PHMR covers approximately 160 square miles and is an integral part of the Maya Mountain Marine Corridor (MMMC) in southern Belize. The reserve is located just off the coast of Punta Gorda and extends to just north of Monkey River Village. PHMR comprises of all the coastal wetlands, sea, seabed, and national lands within the area known as the Port Honduras, with general boundaries being the Rio Grande in the south, Monkey River in the north, the snake cayes in the east and the coastal wetlands in the west. The reserve is rich in biodiversity, containing approximately 138 small mangrove cayes, which provide essential habitat and nursery for juvenile aquatic species. Other critical habitats include sea grass beds, hard bottom communities, and soft bottom communities. A large portion of the reserve is covered by sea grass, which also provides essential habitat and food for juvenile fish species, sea turtles, salt water crocodiles, and manatees. Also within the reserve you find fringing reefs and several coral patches and coral heads, which provide a habitat for vertebrates and invertebrates.

There are two villages located in the reserve, Monkey River Village and Punta Negra Village. The residents of each village are mostly commercial fishers, tour guides, or fly-fishing guides who depend on the reserve for their livelihood.

### **Map of Port Honduras Marine Reserve (Map 1)**



## 2.2 Reserve's Strategic Plan and Goals

The PHMR management strategy is based on five major goals:

1. To protect the physical and biological resources of Port Honduras
2. To provide education and research
3. To preserve the value of the area for fisheries and other important genetic resources
4. To develop recreational and tourism services that will enhance the economic and social benefits of the area without causing environmental damage
5. To strive for sustainable financing

### Zoning Plan and Regulations

For the purpose of the regulation and control of the Reserve, five zones were established:

#### 1. **General Use Zone** (95% of the Reserve)

To provide opportunities for established uses and activities (e.g. fishing for conch, lobster, and finfish) under a stringent monitoring scheme

#### 2. **Conservation Zone**

To provide an area free from commercial fishing to prevent overexploitation of fishery stock, provide an undisturbed area for recruitment of species, and enhance the value of the area for recreational and tourism activities

#### 3. **Preservation Zone**

To provide areas within the marine reserve that are preserved in an entirely natural state and to protect areas of particularly fragile habitat or with threatened or rare species



#### **4. Special Management Area**

Area reserved for special projects

### **3.0 PHMR Accomplishments 2012**

#### **3.1 Patrols and Surveillance**

A total of 930 patrols were conducted for 2012. This figure shows a gradual decrease in the amount of patrols conducted versus the total patrols conducted for 2011. As a result of these patrols 14 gillnets were confiscated within the boundaries of the reserve and 6 gillnets within the river mouth of the Sarstoon River; adding to a total of 20 gillnets confiscated for 2012. Two (2) Guatemalan nationals were arrested for fishing in Belize's Maritime area and two (2) local fishers from Punta Negra were summoned to court for conducting commercial fishing without a Managed Access License and the other for conducting commercial fishing without a Commercial fishing license and a Managed Access License. This case is presently before the magistrate court.

Five (5) written warnings were issued to different fishers for infractions. These offenses range from conducting commercial fishing without a valid Managed Access License to employing a non-Managed Access licensee.. Educating the fishers on Managed Access and the importance of complying with the new rules and regulations was the approach by the ranger team. The hard and fast approach to enforcement was not taken since Managed Access was in the pilot phase. This resulted in nine (9) verbal warnings being given to fishers.

Table 6 summarizes the number of patrols done for 2012 and also includes the number of night, day and joint patrols, number of patrols conducted outside of the boundaries of the reserve as well as warnings for first offence and number of gill nets confiscated.

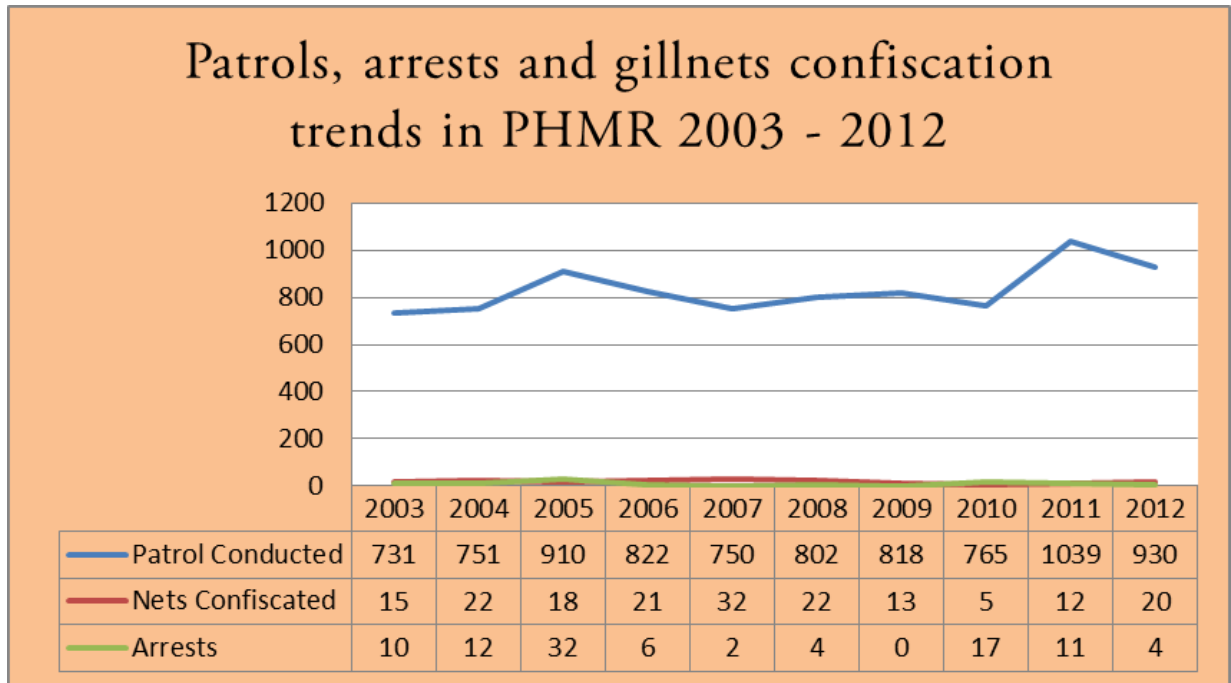
Figure 1 provides a 10 year trend showing number of patrols conducted, gillnets confiscated and number of arrests made. A brief analysis of the data shows a decrease in the number of patrols conducted within 2012, this resulted in 14 gill nets confiscated within the reserve and 6 outside the boundaries of the reserve, and a further decrease to 4 Fisher folk being arrested for various offences. In 2005 the number of arrests made was the highest on record, this was mainly because of a large number of fishers from Monkey River that went out to fish for lobster the day before the opening season, they were all arrested, but was not charged due to reasons beyond our control.

## 3.2 (TABLE 6: Patrol summary for 2012)

Month	Day Patrols within the reserve	Night Patrols within the reserve	Joint Patrols (figure already included)	Day patrols Outside reserve boundary	Night patrols outside reserve boundary	Arrests/summons	Sub Totals	Comments
Jan	41	12	-	8	-	-	61	
Feb	51	14	-	15	1	-	81	1 gill net confiscated
Mar	38	15	2	3	1	2	57	5 gillnets confiscated, 2 arrests of Guatemalan nationals fishing in Bze waters
Apr	52	17	6	14	-	-	83	
May	52	14	-	11	-	-	77	1 gillnet confiscated
Jun	62	9	-	25	-	-	96	1 gillnet confiscated, 2 warning letters issued
Jul	42	10	2	9	-	-	61	7 gill net confiscated, 1 warning letter issued
Aug	48	18	-	18	1	-	85	1 gillnet confiscated, 2 warning letters issued
Sept	71	19	-	20	2	-	112	2 gillnets confiscated, 3 verbal warnings

Oct	49	11	-	13	1	2	74	2 fishers summons to court. Case adjourned for next yr.
Nov	47	11	3	15	1	-	74	6 verbal warning issued
Dec	39	16	-	13	1	-		2 gillnets confiscated, 1 written warning issued
<b>Totals</b>	<b>592</b>	<b>166</b>		<b>164</b>	<b>8</b>		<b>930</b>	

**Enforcement trend in PHMR**



**Figure 1****3.3 Refurbishing of Ranger Station/Docking Facility**

Major infrastructure needs were accomplished within the year 2012. The wooden posts for the ranger station on Abalone Caye were in desperate need of replacement. The old posts were placed directly into the ground and over the course of ten years, they rotted, leaving the building unstable and swaying in the wind. All this stopped after all wooden posts were replaced with cured lumber and placed on top of a cement footing. The store room was also renovated and a 6<sup>th</sup> room being added to the facility.



*New hard wood posts and cement footings*

*newly constructed storeroom and Managers Quarters*

These accomplishments were made possible through the KFW project which was launched in the later part of 2012. Also accomplished under this project was the reconstructing of the wharf at Abalone Caye. Other activities accomplished within the 2012 are as follows: the purchasing of 30 demarcation buoys, purchasing of a 100hp outboard engine, and two First Aid Kits.

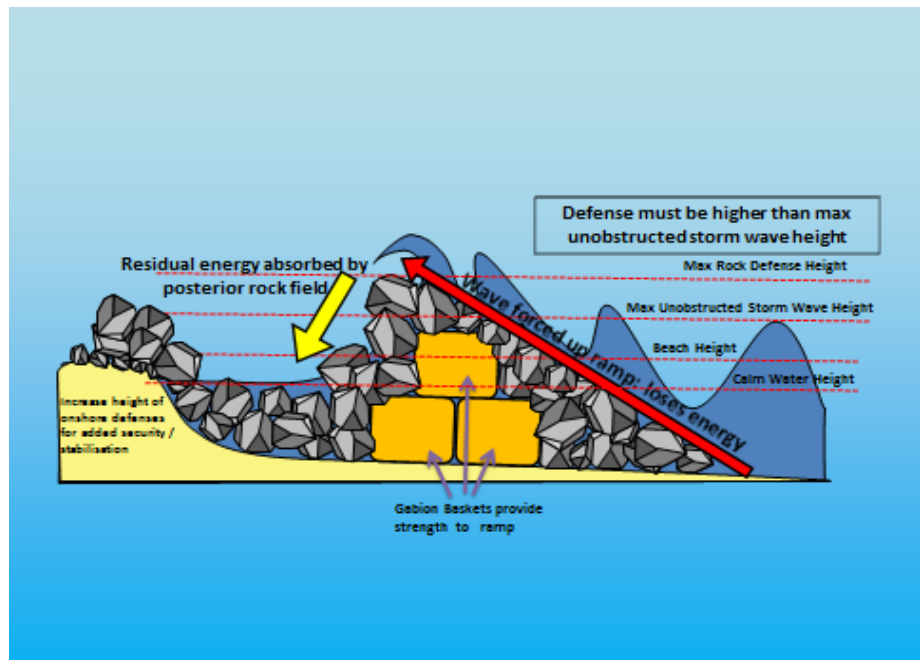
**3.4 Partnerships**

The PHMR staff continues to work with local and partner organizations. These partners include Southern Environmental Association, the Fisheries Department, the Police Department, the Belize Defense Force, the Belize Coast Guard, and the University of Belize.

#### 4.0 Erosion of Abalone Caye

Major strides have been made towards decreasing erosion of Abalone Caye. During the course of the year 2012, the rangers and the team at TIDE have been experimenting with making a wall using Gabion baskets and boulders. Gabion baskets were introduced to us by CISCO construction and Mr. Eric Moore a local Civil Engineer and Manager of the Ministry of Works Department here in Punta Gorda Town.

Figure 2



We have been using two (2) gabion baskets as a base and then placing a third basket on top as shown in figure 2. This will then create a defense against the strong waves, decreasing their energy. The residual energy will then be absorbed by the rock field. This method of absorbing the wave's energy before it hits the island proves to be working. (see attached report on details of the positive impact of this project).

Photo 1



Photo 2



*Old dock facing with coast line not protected newly rebuilt dock with coast line protected by rocks*

Photo 3



Photo 4



*Gabion baskets filled with rocks lining the coast of Abalone Caye*

## 5.0 Community Education and Outreach

A total of thirteen (13) educational field trips were accomplished for the year 2012. These trips gave three hundred and fifty two (352) primary school children from the Toledo District the opportunity to visit the three (3) different protected areas co-managed by TIDE with the Government of Belize.



Prior to the educational field trips, twenty (20) school presentations on the topic “Ecology and Conservation” were carried out. The presentations were carried out in ten (10) different primary schools, including: St Peter Claver, Punta Gorda Methodist, St Benedict, Seventh Day Adventist School, Litte Flower, and Forest H. Methodist schools.

Presentations were given also done on the topic of “Climate Change Adaptation and Mitigation measures” to the upper division children within the Coastal Communities buffering Port Honduras Marine Reserve.



During the course of the year, TIDE also held its Annual Fresh Water Cup that involved both adult and junior male and female teams. This program that lasts 5 months integrates conservation with sports and engaged all 21 teams in environmental projects.

## **5.1 Managed Access in PHMR**

### **Overview**

Managed access refers to a license system that grants access to fishing in the general use zones of marine reserves. Managed access license system was implemented last year (2011) as part of a two year transition Period for fishermen and managers to adjust to the Managed Access system. Almost a hundred consultations with fishers on Managed Access occurred at Port Honduras Marine Reserve’s (PHMR) buffering communities since 2009. At the implementation of this program, the Port Honduras Marine Reserve Community Managed Access Committee was formed to evaluate applications for managed access licenses for fishers of PHMR and make recommendations to the Fisheries Department. The PHMR Community Managed Access Committee members consist of representatives from Monkey River, Punta Negra, and Punta Gorda communities, the Fisheries Department, Rio Grande Fishermen Cooperative and the Toledo Tour Guide Association.

Fishers who have obtained a Managed Access license are expected to comply with Fisheries Regulations and conditions of the license such as submission of catch data on a regular basis. Managed access uses a fishers’ right-based approach to create incentives for fishers to become better stewards of their environment and marine resources.

### **5.2 Managed Access License**

A total of 127 PHMR Managed Access licenses have been recommended by the PHMR Community Managed Access Committee and issued by the Fisheries Department. A total of 6 fishers have been denied Managed Access license by the Fisheries Department due to not fulfilling the conditions of the license.

As of November 23, 2012 a total of 99 fishers have been recommended by the PHMR Community Managed Access Committee and a pre-approved list has been submitted to the Fisheries Administrator. A total of 6 fishers have not been recommended for managed access license since they do not fulfill the license criteria. It must be noted that fishers will be able to make payments for renewal of general fisher folk license and managed access at the Punta Gorda Treasury- Sub office. Fishers were urged to provide all necessary documentation to the clerk at the Fisheries Department office in Punta Gorda where a payment form will be filled out so as to facilitate payment at the Treasury Sub-office.

### **5.3 PHMR Community Managed Access Committee**

A total of 7 meetings were held by the PHMR Managed Access Committee for the year 2012. Highlights of the various meetings include the selection of a chairman which is Mr. Armando Ramirez, representative of the Rio Grande Fishing Cooperative. In addition, a session was done with Adriel Castaneda (Catch Share Liaison Officer) and committee members to review and discuss managed access license criteria, conditions and roles of members. Committee members felt a refresher was needed since they wanted to initiate the vetting of names for managed access license for 2013 at the end of 2012. Finally, committee members have been keen in identifying training in conflict resolution, leadership skills, how to conduct formal meetings and importance of a committee. These topics have been identified since committee members encounter many situations and personalities within their communities in reference to managed access.

### **5.4 Daily Catch Log Book**

At the commencement of 2012, fishers holding managed access license for PHMR were irregular in data submission. As the year progressed and with constant one-on-one sessions with fishers and PHMR Managed Access Coordinator, fishers' data recording and submission have increased dramatically. However, it has been noted that some fishers are still not accurately filling out data log sheets. For example, fishers are missing the date or not placing the exact date of fishing trip and various common names used for fish species. It has been challenging for fishers to submit data on a daily basis due to time, distance of fishing areas to Abalone Ranger Station and Fisheries- Punta Gorda. Thus, fishers have been able to submit data on a weekly basis or every two weeks. However, there are fishers who are submitting log sheets after a month. Nevertheless, most fishers know that data must be submitted and recognize the importance of data especially in renewal of licenses and have been complying.



## 5.5 Managed Access Communication Plan

A communication plan on Managed Access in PHMR was developed to enhance the overall support for Managed Access by stake holders. Activities included:

- Renovation of the Punta Gorda Town Fish Market which included painting of building, tiling of stalls, installing screened windows and doors, and placing of painted murals and tiling of floor.
- The making of a Managed Access jingle by local artist. The jingle has been sent to the Belize Fisheries Department for review and approval.
- A Managed Access video was developed by PHMR Community Managed Access Coordinator and TIDE's Media personnel. The video entails an overview of the managed access program, interviews done by managed access fishers and committee members and footage of PHMR, fishermen, Punta Gorda Town, among others.
- Promotional materials were printed and distributed during fishers' forum, fishers' meetings, TIDE's Fish Fest, community visits, Placencia Lobster Fest, September Celebration float competition and educational outreach activities. The materials include rubber bracelets, tote bags, aluminum water bottles, bottle openers, rulers, key chains, and stickers.
- A billboard on managed access has been created and a final version will be circulated among key partners and Belize Fisheries Department for approval. This billboard will be placed at Joe Taylor Creek and Abalone Caye.

## 6.0 Visitors to PHMR

Americans continue to be our most frequent guests within Port Honduras Marine Reserve with a total of 463 guests which is an increase by 43 guests as compared to 2011 figures. A total of 290 Belizeans signed the logbook at Abalone; this also shows an increase of 75 Belizeans. A brief analysis of the data shows an increase in the number of both Belizean and American visitors comparing 2010 and 2011 data. This is shown in Figure 3.

Table 6 below provides you with visitation data depicting the number of visitors per month and country of origin for 2012.

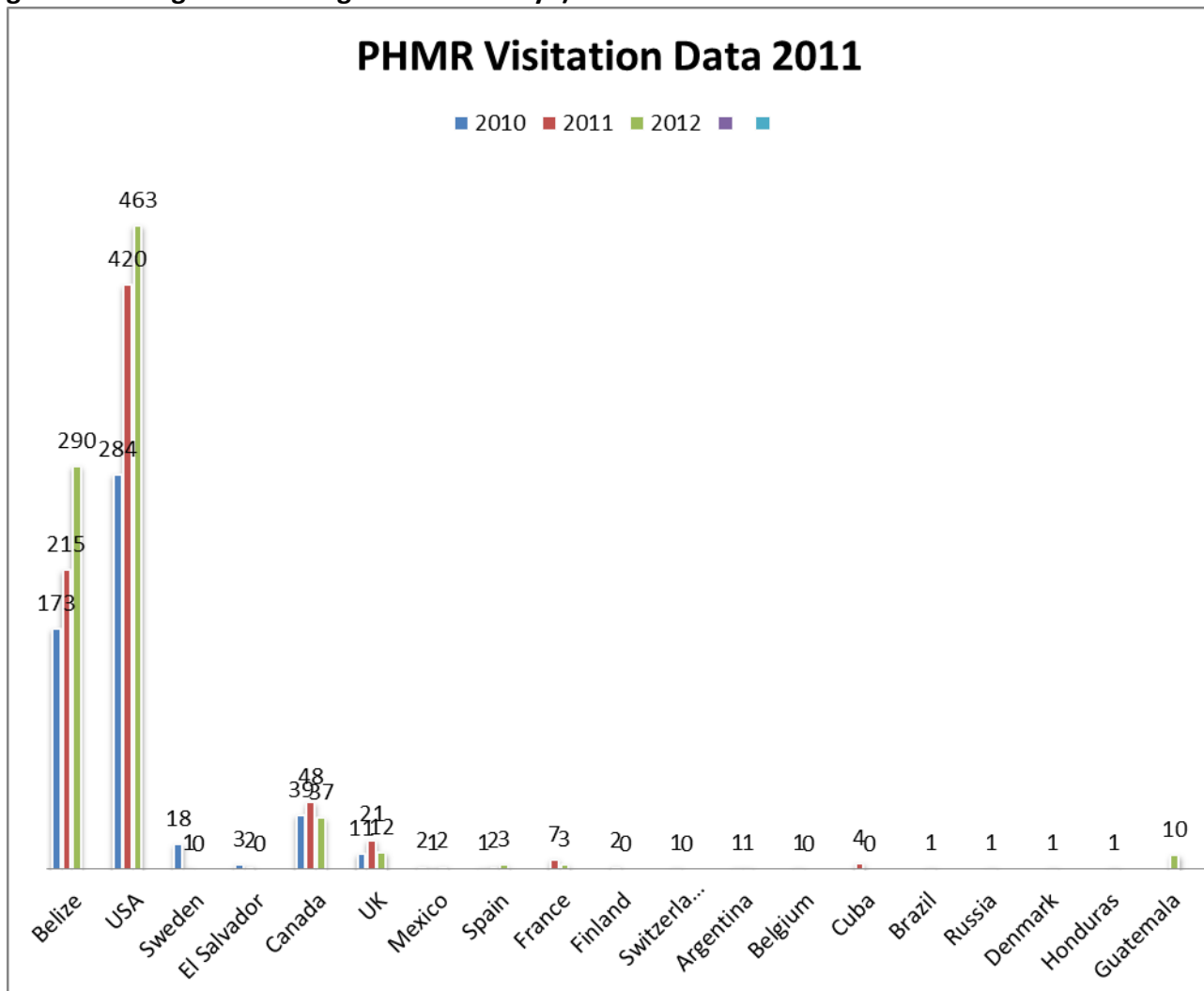
Figure 4 depicts PHMR's visitation trends from 2003 to 2012. The highest visitation numbers were observed in the year 2006 with a total of 1035 visitors.

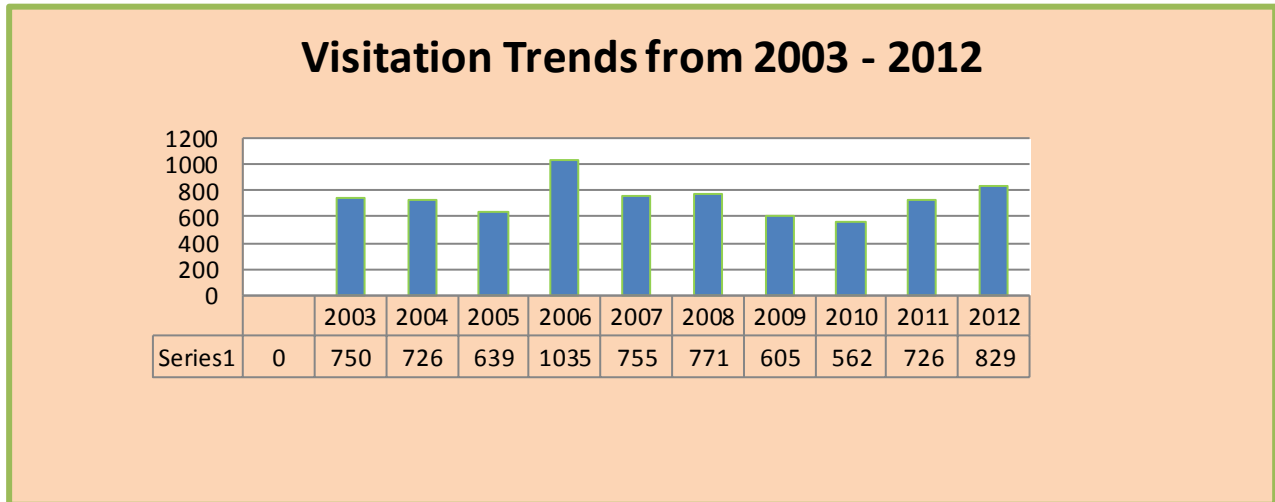
There are visitors that venture direct to West Snake Caye, an island within the Conservation Zone and do not visit the ranger station so a record of their visit is not recorded in the log book. To address this concern, a second method of collecting visitor's data was implemented. This is shown in Figure 5.

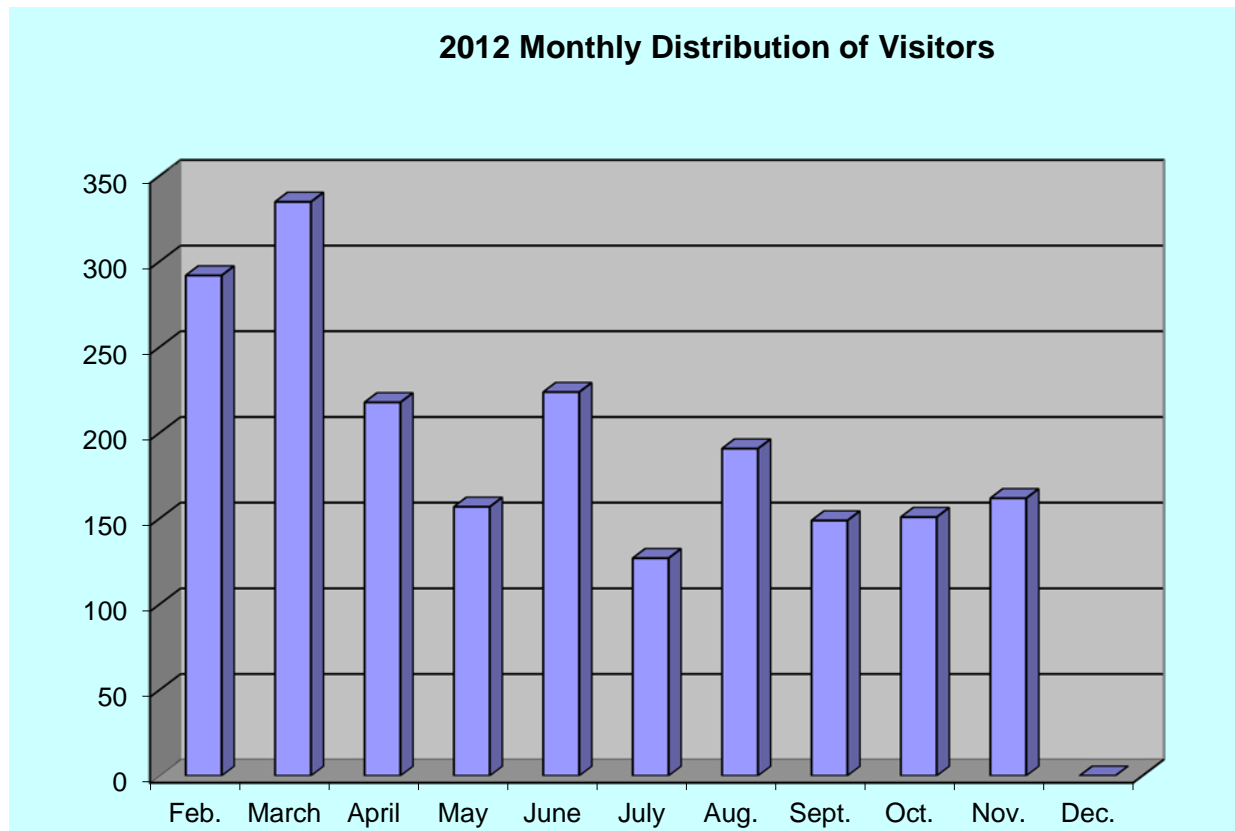
**TABLE 6: Visitation to PHMR for Jan-Dec 2012 by Country (Data from the Logbook at Abalone Ranger Station)**

<b>Country</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Totals by Country</b>
Belize	2	2	29	2	4	4	1	126	15	38	59	8	290
USA	65	39	80	52	51	16	52	49	26	16	14	3	463
Canada	3	4	12	-	12	-	4	-	-	2	-	-	37
Brazilian	-	-	-	-	1	-	-	-	-	-	-	-	1
United Kingdom	2	-	3	3	-	-	1	-	3	-	-	-	12
Mexico	-	-	1	1	-	-	-	-	-	-	-	-	2
Russia	-	-	1	-	-	-	-	-	-	-	-	-	1
Spain	-	-	-	1	-	-	2	-	-	-	-	-	3
France	1	-	-	-	-	1	-	-	-	-	1	-	3
Argentina	-	-	-	-	-	-	-	-	-	-	-	1	1
Italy	2	-	-	-	-	-	-	-	-	-	-	-	2
Denmark	1	-	-	-	-	-	-	-	-	-	-	-	1
Guatemala	-	-	1	-	-	8	-	-	-	-	-	1	10
Honduras	-	-	-	-	-	1	-	-	-	-	-	-	1
Holland	-	-	1	-	-	-	2	-	-	-	-	-	3
Monthly totals	76	45	128	59	68	30	62	175	44	56	73	13	<b>829</b>

Figure 3: Visitation data by country for 2010, 2011 and 2012 (Note: data collected is only from guests that sign into the log at Abalone Caye)



**Figure 4: Visitation Trends for PHMR since 2003 - 2012****Figure 5: Visitation Data collected within PHMR**



**7.0 (Table: 7) Users of the Reserve and vessel names for 2012**

<b>Fisherfolk</b>	<b>Boat Name</b>
1. Marcial Mes	Lynn
2. Carl Gonzalez	Carlita
3. Martin Reyes	Charity
4. Eloy Cuevas	Trouble
5. Nery Coleman	Yomira
6. Winsley Garbutt	Dania
7. Alvaro Romero	Bruno
8. Alfredo Canelo	Puma
9. Esquivel Ramirez	Ever
10. Leslie Williams	Silence
11. Darwin Garbutt	Delanie
12. Lionel Delcid	Gilda
13. Cristian Trapp	Marie Julie
14. Felix Gutierrez	Janett
15. George Ramirez	Viviana

16. Darwin Garbutt	Delanie
17. Martin Reyes	Charity
18. George Garbutt	Mystic
19. Jose Ariola	Andrea
20. Ray Arzu	Sheridan
21. Rafael Ramirez	Anna
22. Beham Parham	Mariela
23. Leonardo Garcia	Evelyn
24. Ezequiel Ramriez	Mariela
25. Walton Parham	Maria Juli
26. Kent Audinett	Admiral
27. Jason Martinez	Big Game
28. Roy Ramirez	Tesha
29. Geovanni Ramirez	Eagle
30. Conrado Perez	Mirrza
31. Freddy Perez	Paola
32. Roberto Echavarria	Wild Thing
33. Valerio Perez	Delfin
34. Wilder Parham	Alejandra
35. Daniel Tillett	Tunvo
36. Marcos Barrientos	Paloma
37. Abraham Perdomo	Lewis

***(This list is just a representation of the fishers using PHMR)***

***(Table: 8) Sport Fishing/tour guides and their vessel names 2012***

1. Mikhail Martin	Brown Sugar
2. Eworth Garbutt	Destiny
3. Lionel Martin	tTght line
4. Daniel Castellanos Jr.	Xavi
5. Ian Cuevas	Opportunity
6. George Garbutt	Mystic
7. Eloy Cuevas Sr.	Fugitive

8. Roberto Echavarria	Wild thing
9. Oliver Garbutt	Sea Life
10. Thomas Garbutt	Unity
11. Wilfred Mutrie	-

### 8.0 TIDE Board of Directors

1. Gabriel Roches (Chair)	Public Officer (Public Health)
2. Alistair King (Vice)	<i>Local Businessman (Texaco &amp; Fabrigas)</i>
3. Alexander Garbutt Sr.	<i>Local Fisherman and Tour Guide in Monkey River</i>
4. Eric Moore – Treasurer -	<i>Ministry of Works, Toledo</i>
5. Marie Aleman – <i>Retired</i>	
6. Dale Gomez –	PCNP Advisory Council representative
7. Dr. Phillip Morgan	PHMR Advisory Council representative
8. Celia Mahung	Executive Director (Ex-Officio)

### 9.1 TIDE Staff

#### Management Staff

1. Celia Mahung	Executive Director
2. Stephene Supaul	Operations Director
3. Joseph Villafranco	Program Manager
4. James Lord	Development Director
5. Norman Budna	Education and Outreach Coordinator

#### Administrative staff

1. Danny Hun	Financial Administrative
2. Albert Jacobs	Receptionist
3. Kimberly Coleman	Accounts Clerk
4. Paul Etienne	IT Officer

5. Claudette Borland	Office maintenance
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## 9.2 PHMR Advisory Committee (Please put in table)

Wilfred Mutrie/Dennis Garbutt/Alex Leonardo: BTIA – PG

Celia Mahung: TIDE Executive Director

Derwin Garbutt.: Fisherman Monkey River

Hon. Michael Espat: Toledo East Area Representative

Mr. Anthony Fuentes Mayor – PG Town Council

George Ramirez: Rio Grande Fisherman Cooperative – PG

Lyndon Rodney: Fisheries Department – PG

Philip Morgan: Lecturer, UB – Toledo

Paula Williams: Punta Negra Village

Seleem Chan: PHMR Mana

## 9.0 PHMR Donors

1. The OAK Foundation
2. National Oceanic and Atmospheric Administration (NOAA)
3. The Nature Conservancy
4. The Summit Foundation
5. COMPACT
6. Sea Grass Net
- 8.
9. Environmental Defense Fund
10. Belize Fisheries Department
11. KFW-German Bank
- 12.** Marfund
- 13.** New England Biolabs Foundation