



# TOCO

## Bioblitz 2018

# Final Report



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## Report Credits

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## **Executive Summary**

The seventh Trinidad & Tobago Bioblitz was conducted 17-18 November 2018, in and around Toco, Trinidad. Around 200 volunteers helped observe, collect, and identify a diverse range of organisms: plants, fungi, birds, mammals, reptiles, amphibians, terrestrial invertebrates, microbes and aquatic organisms. A variety of surveying methods were used, including direct observation, trapping, netting and sampling. At least one hundred members of the public attended the accompanying outreach activities on Sunday 18<sup>th</sup>. A total of 795 species were reported after 24 hours of surveying and identifying.

**Keywords:** Bioblitz, biodiversity, Toco, Trinidad, survey

## Introduction

A Bioblitz (short for Biodiversity Blitz) is an event in which a group of biological experts gather together to record as many different species of organisms as possible during a set period at a chosen site. The period is normally 24 hours but can range from a few hours to several days. The first event held under the title of a Bioblitz took place in Kenilworth Park and the Aquatic Gardens National Park, Washington, DC, U.S.A., in May 1996 (Droege, 1996), although events with similar goals and methods had been held before.

Since then, Bioblitz events have been held all over the world, including in Australia, New Zealand, Canada, the U.K., Spain, Portugal, Ireland, Germany, Italy, Switzerland and Taiwan. The event described herein was the third to be held in the Republic of Trinidad and Tobago after the inaugural Bioblitz in the Tucker Valley in 2012 and the second Bioblitz held in Arima Valley in 2013.

Although a Bioblitz gives a snapshot of the wildlife in an area, it is not designed to yield an exhaustive inventory (Lundmark, 2003). This is because of the limited time during which the sampling takes place and also because it is conducted over a single weekend, meaning that seasonal variation cannot be accounted for; however, the sampling does provide a baseline against which results of future surveys and Bioblitzes can be compared and measured.

Toco was chosen because the northeastern area of Trinidad has yet to be surveyed for Bioblitz in the country, and also due to its rich marine diversity.

Habitats in the sampled area include nearshore beaches, forest trails, rivers and streams.

The event was co-organised between the TTFNC and the Department of Life Sciences, The University of the West Indies.

The organizing committee for this event comprised of the following individuals:

Renoir J. Auguste, President of the Trinidad and Tobago Field Naturalists' Club (TTFNC)

Laura Baboolal, TTFNC

Amy E Deacon, Secretary of the TTFNC/Lecturer in UWI-DLS

Mark Hulme, Lecturer in UWI-DLS

Alexis Marianes, TTFNC

Ryan S Mohammed, Acting Curator, UWIZM

Danielle Morong, Assistant Secretary TTFNC

Stephanie Warren-Gittens, TTFNC

First Citizens Bank very generously sponsored the event through the TTFNC.

The basecamp for the Bioblitz was The Toco Regional Complex (TRC).

The weather during the 24-hour period was mostly sunny. However sea conditions were rough.

## Methods

Experts and volunteers grouped themselves together and most prepared a plan of action before the event began; the volunteers were divided up into several groups that varied in the number of members and the surveying methods to be used. At noon on Saturday the groups headed into the area to start surveying. Some continued late into the night (until approximately 1am) and then started again at daybreak on Sunday before finishing up before noon.

## Plants

The survey was carried out in secondary forested areas within the Toco region with specific collections made at two locations. The two sites comprised disturbed secondary forest and abandoned cocoa respectively. At these sites all plants encountered were recorded and where necessary samples collected for later identification. Opportunistic sightings of vascular plants along access roads and trails were also recorded. Collections of bryo-phytes were made from tree barks, roots, the ground, rotten wood and concrete surfaces. Specimens were collected by hand and field notes taken.

## Birds

The Bird Group was formed of 28 highly motivated participants plus a number of intrepid Bioblitzers from other groups. Joining the experienced birders included a number of enthusiastic students from the University of the West Indies, who benefitted from the knowledge-transfer and the ID practice, spotting many interesting species themselves which would otherwise have been missed. Surveying was done via several established methods, including, field surveys with a combination of driving and walking throughout the accessible areas of the survey radius where applicable, bird-banding surveys at the Forest Point location, and some stationary sea-watching at the Galera Point eBird birding hot spot, at the famous Toco Light House. Also, a new method using mounted audio recorders in forested areas overnight to capture bird calls for identification later on, was also employed. Two main groups were tasked with covering as much of the Bioblitz area as possible, noting limitations with vehicle access to some interior forest dirt roads, as well as some limited habitat availability where focus was mainly on forest and some scrubland vegetation, with some river and coastline habitats.

## Mammals

Camera traps were set up months prior to the event weekend, whereas during the weekend, the cameras were taken down, and mist nets were set up to catch bats from around 6 pm to 10 pm.

## Reptiles and Amphibians

This year the group consisted of two sub-groups. TTFNC Herpetology Group and the other led by Saiyaad Ali with members of the Serpentarium. Trails were walked day and night to observe amphibians and reptiles. At night, flash lights were used to aid in seeing herpetofauna, whereas frog calls were listened to to note species heard but not seen.

## Aquatic (Marine)

Various survey techniques were employed by sub-groups who surveyed for organisms by six main categories; (i) fish, (ii) crustaceans, (iii) echinoderms, (iv) corals, gorgonians, sponges and other invertebrates, (v) molluscs, (vi) macroalgae and other species. Volunteers searched the shoreline, in-between rocks and in shallow areas for any sign of life. Sediment sieving was also conducted to sample the smaller marine invertebrates such as polychaetes and amphipods. Some volunteers also tried their hands at net casting, and were quick to learn the technique.

## Aquatic (Freshwater, Estuarine, Coastal Nearshore)

Sampling started promptly with a moderate sized group venturing along the north coast road towards Sans Souci. At this site the group divided themselves into three parties each using a different sampling technique; seining, general collecting with dip nets and benthic macroinvertebrates with a kick net. This was repeated at six sites along the north coast road with a fish trap being deployed for overnight fishing at four sites where the water depth was suitable.

## Terrestrial Invertebrates

The wide variety of terrestrial invertebrates to be found in around Toco necessitated in several independent groups conducting surveys:

### Lepidoptera

The book "Butterflies of Trinidad and Tobago," by Malcolm Barcant, was the main reference used for identification. Moths were identified with the help of on-line resources and by sending photos to Dr. Matthew J. W. Cock, CAB International, U.K.

### Arachnids

Rakesh Bhukal led the group searching for scorpions which left the field station around 8pm. Ultraviolet (UV) lights were used to scan for scorpions along the trail from the basecamp. Leaf litter and rotting logs along the trail were turned over and illuminated. Trees and other vegetation along the trail were also searched because many scorpions were concealed in tree bark within a height of 1 metre from the base of the tree. Scorpions were collected and taken back to basecamp, where they were subsequently identified by use of a 40X dissecting microscope and scorpion identification guides (example Predini 2001).

Two sampling methods were used; sweep-netting and visual search. The first involved brushing the understory vegetation with a heavy canvas net which served to dislodge any species both diurnal and nocturnal that are on or making their retreats in the vegetation. Visual searching involved walking and collecting specimens that can be seen with the naked eye. Collecting was supplemented by observations and photos taken by members of other specialist groups.

### Other Invertebrates

Throughout the Bioblitz, participants encountered a variety of invertebrates throughout the area. These organisms were either photographed or collected in plastic vials for later identification by the relevant expert(s) at the basecamp. These specimens included many different insects, arachnids,



crustaceans, myriapods, and worms. Various guides were used to aid in identification including Michalski (2015), alongside iNaturalist.org.

## Fungi

Jeffrey Wong-Sang led this group. Specimens were collected and preserved as well as photographs were taken. These were then collated and identified to morphospecies during the Bioblitz with further identification carried out after the event. Other participants also contributed photographs of fungi.

## Micro Biology

This year soil samples were also collected and tested for microorganisms, particularly bacteria, and microscopic fungi. Samples were brought back to UWI and identifications were analysed.

## iNaturalist

This year and for the very first Bioblitz, the citizen science application iNaturalist was added to the event. At least one person from each group took photos of organisms and uploaded them to iNaturalist where they could be identified by scientists from around the world.

## Results

### Plants

The final plant group total was 230 species from 78 families. Plants were recorded across Cumana forest, Old Toco Road, and near base camp.

### Birds

A total of 108 species of birds were seen or heard during the Bioblitz. This compares to 474 different species for the whole of Trinidad & Tobago (Kenefick et al. 2011). All 108 species were recorded throughout the 5 km radius.

### Mammals

#### Bats

Eight bat species were recorded. This compares to roughly 70 bat species for the country (Gomes and Reid 2015). However the low numbers may have been due to the full moon being out with bats being less active.

#### Trail Cameras

A crab-eating raccoon, silky anteater and an unidentified rat species were observed. The crab-eating raccoon is a rarely encountered mammal whereas the silky anteater is restricted to arboreal habitats in forests.

#### Other Sightings

Red howler monkey was reported to have been observed but the location was not disclosed and should be treated as anecdotal.

## Reptiles and Amphibians

Thirty-nine species of herpetofauna were recorded, with 25 species of reptiles in 15 families roughly one quarter of the country's reptiles and 13 species of frogs in 7 families roughly 43% of the country's amphibians (Murphy 2018). Most of these species were observed in the forest trails in Cumana, whereas the two marine turtles Green (Endangered) and Hawksbill (Critically Endangered) were observed at Salybia and Grande L'Anse respectively.

## Aquatic

### Marine

One hundred and twenty one species in 79 families were recorded (exclusive of endangered marine turtles which are counted in the reptile results). The majority of these species were observed in the Grande L'Anse bay and Salybia Bay. In addition, 18 other species were observed during a reconnaissance between August and October 2018 that were not observed during the weekend of Bioblitz (M. Rampaul, personal communication December 2018). These included 8 fishes, 4 crustaceans, 2 cnidarians, 3 echinoderms and 1 macroalgae. It should be noted that in-water surveys were hampered by unfavourable marine conditions on the event weekend, due to a swell event, which resulted in rough seas advisories and turbid conditions which may have led to some species of these species not being seen then.

### Freshwater, Estuarine, Coastal Nearshore

Fifteen fish from ten families, fifteen crustaceans from five families and four molluscs were recorded in the area.

## Terrestrial Invertebrates

### Lepidoptera

In all, 40 species of butterflies from 9 families were recorded.

### Arachnids

Thirteen species from 6 families were recorded which included 6 species of scorpions and 7 spiders.

### Other Invertebrates

A variety of other insects were recorded totaling 39 species which included beetles, dragonflies, grasshoppers, millipedes, and many more.

## Fungi

Forty fungi species were recorded but the final list is still being analyzed.

## Micro Biology

From the soil samples taken, 110 distinct organisms were recorded, which included 10 fungi and 100 bacteria. The final list of organisms are still being analyzed during time of writing this report.

## Public Participation

Over a hundred persons visited the base camp on Sunday. Amy Deacon and team coordinated outreach displays and activities from basecamp, and various groups and invited organizations had displays on offer, including Asa Wright Nature Centre, Serpentarium, Food and Agriculture Organization, as well as the TTFNC marine group. Many of the survey groups also brought specimens back to basecamp and displayed information to share with the public.

Amy Deacon and Renoir Auguste accepted an invite to spend an hour on Sunday morning speaking on Radio Toco on behalf of TTFNC to publicise the Bioblitz, encourage local attendance and raise awareness of the incredible biodiversity of the area.

## Media coverage

Renoir Auguste and Stephanie Warren Gittens appeared on TTT's Now Morning Show the week before the event.

The event was also covered by various print and online news outlets:

<https://newsday.co.tt/2018/11/04/bioblitz-goes-to-toco/>

<http://lal-life.com/index.php/2019/10/28/bioblitzology/>

<https://herpetologytt.blogspot.com/2018/11/herpetofauna-results-from-toco-bioblitz.html>

[https://asawright.org/wp-content/uploads/2019/01/2018\\_12\\_BELLBIRD.pdf](https://asawright.org/wp-content/uploads/2019/01/2018_12_BELLBIRD.pdf)

## Conclusion

The total number of species recorded at the Bioblitz was 12 mammals, 13 frogs, 25 reptiles, 108 birds, 92 terrestrial invertebrates, 110 microbes, 34 freshwater species, 121 marine species, 40 fungi species and 230 plant species for a total of 795 species.

For more details and photographs of the event see the TTFNC magazine The Field Naturalist Quarterly Bulletin 2018/4 at: <https://ttfnc.org/photojournals/2018-4.pdf>

## Acknowledgements

### Bird Group

Coordinators: Jerome Foster, Mark Hulme.

Members: Faraaz Abdool, Sabira Ali, Zakariyya Ali, Shawn Baldeosingh, Brian D'Abreau, Vishnu Debie, Carl Fitzjames, Jerome Foster, Halim Ghany, Lawrence James, Alexis Marianes, Stuart Miller, Maydiel Canizares Morera, Devan Mulchansingh, Darshan Narang, Feroze Omardeen, Sanjiv

Parasram, Gayatrilakshmi Raghava-Singh, Ejaz Rahaman, Elizabeth Seebaran, Richard Smith, Jo-Marie Westmaas, Alex Sansom

### **Reptile & Amphibian Group**

Coordinators: Renoir Auguste and Saiyaad Ali.

Members:

Rainer Deo, Kyma Ali, Milena Mechkarska, Gervonne Barran, Shameel Mohammed, Kerron Bedessie, Peter Dickson, Vaughn-Xavier Jameer, Joshua Francis, Siddeeq Ali, Samuel Seashole, Ken Alfieri, Thad Bowman, Daryl Abraham, Joel Lennard, Nalini Rampersad-Ali, Sattish Rampersad, Jai Roopchan, Mason Ramdawar, Taariq Ali, Kyle Dharmoo, Javiel Sthilaire, Drew Howell, Kester Dass, Darius Baldeo.

### **Mammal Group**

Coordinators: Laura Baboolal.

Members: Kesham Mahabir, Jo-Marie Westmaas, Keresha Khan, Nicholas Mohammed, Delezia Singh, Danielle Morong, Stephen Griffith

### **Invertebrate Groups**

Coordinators: Rakesh Bhukal.

Members: Dillon Suepaul, Jenalee John, Tom Yick, Fadeera Mohammed, and others

### **Aquatic Group**

Coordinators: Marianna Rampaul (Marine) and Ryan S. Mohammed (Freshwater, Estuarine, Coastal)

Marine Members:

Anjani Ganase, Barry Sak-han, Bria De Costa, Charran Sookram, Farahnaz Solo-mon, Finbar Garcia, Garth Mannelle, Imramn Juman, Imran Khan, I. Hinkson, Jacqueline Forbes, Jo-marie Westmaas, Jonelle Sookdeo, Karishma Rampersad, Karissier Gokool, Keshan Mahabir, Kristina Sankar, Leah Fouchong, Marc Bejai, Marianna Rampaul, Marion Hosein, Maritsa Harry, Mark Charran, Melissa Herbert-Mohammed, Neema Ramlogan, Nicole Lee-Wing, Rea Raghunanan, Reesa Forester, Rudra Badree, Sanjeev Boodoo, Seleste Herbert, Sharis Garcia, Stephanie Warren-Gittens, Dr. Kelly Kingon, Crystal Edwards, Sterling Lue Shue, Jeunisse Mohon, Kizzy-Ann Pasqual, Kelly-Ann Persue, Christopher Ragobar, Adrian Wilson, Krizia Chang, Miquel Garcia, Nele Thijs, Sarita Emmanuel, Dale Kingon, Vaughn-Xavier Jameer, Yevgeniya Malyutina and Yinka Jagbir.

Freshwater, Estuarine, Coastal Members:

Kerresha Khan, Jacqueline Forbes, Vaughn-Xavier Jameer, SachinMaraj, Hanan Lachmansingh, Delezia Singh, HananMayal, Dillon Ramadin, Danielle Jaimungal, Felicia Collins, ShaueelPersadee, Sweelan Renaud, Ajay Ramlogan, Bradley Boodoosingh, Amy Deacon and Trina Halfhide.

### **Plant Group**

Coordinators: Mike Oatham, Doreen Jodhan, Shane Ballah

Members: Linton Arneaud, Nandani Bridglal, Chernell Crooks, Adanna Alexander, Wy-vonne Crooks, Jarrah Oatham, Andrew Jodhan, Aaron Peter, Nadine Ali, Dan Jaggernauth, Carlton Roberts, William Trim, Mr. Dwarika and Aidan Farrell.

### **Fungus Group**

Coordinators: Jeffrey Wong Sang, Roma Wong Sang

Members: Darius Baldeo, Pauline Geerah.

### **Micro Biology Group**

Members: Antonio Ramkisoorn, Natalia Santo, Ajay Ramlogan, Crystal Ambrahim

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- All of the group leaders for their efforts in gathering teams and reporting their results
- The staff and students of the UWI Department of Life Sciences and other UWI departments that participated
- Amy Deacon and Aidan Farrell for supervising base camp
- All of the journalists who reported on the event
- The Bermudez Biscuit Company for providing snacks
- T&T Bioblitz founder Mike Rutherford for support and IDs from afar

And a final big thanks to First Citizens for generously sponsoring the event.

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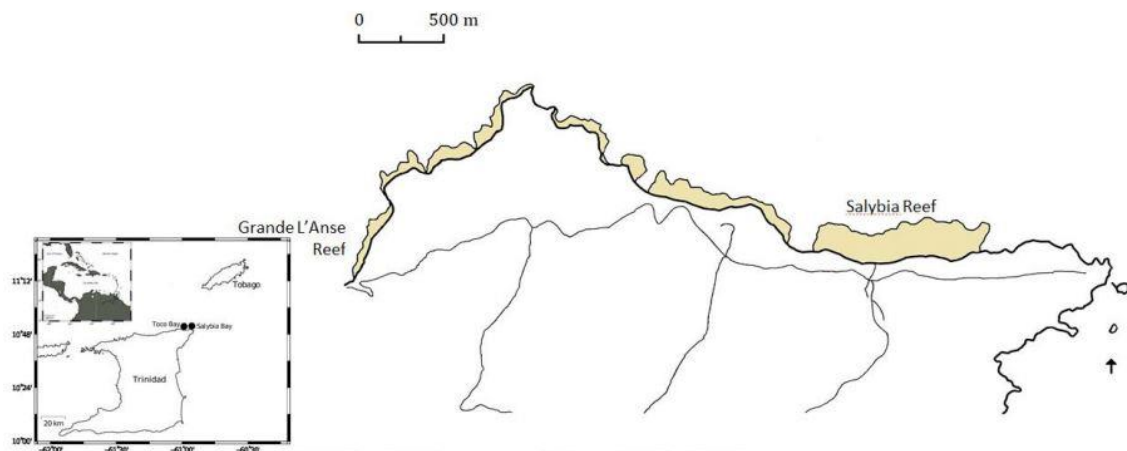
## Appendix 1

Locations of the main terrestrial sampling sites (Source Google Maps):



Site	Toco Regional Complex	Toco Lighthouse	Forest Point	Tompire River	Cumana	Salybia Reef
GPS	10.8381 -60.9421	10.8339 -60.9097	10.8177 -60.9144	10.7807 -60.9462	10.7937 -60.9715	10.8351 -60.9218

Location of main marine sampling locations (Source: Belford et al. 2019):



## Appendix 2

### Species Lists

#### Birds – 108 species (compiled by Mark Hulme)

Common name	Scientific name
Little Tinamou	<i>Crypturellus soui</i>
Trinidad Piping-Guan	<i>Pipile pipile</i>
Magnificent Frigatebird	<i>Fregata magnificens</i>
Red-footed Booby	<i>Sula sula</i>
Brown Booby	<i>Sula leucogaster</i>
Brown Pelican	<i>Pelicanus occidentalis</i>
Striated Heron	<i>Butorides striata</i>
Snowy Egret	<i>Egretta thula</i>
Turkey Vulture	<i>Cathartes aura</i>
Black Vulture	<i>Coragyps atratus</i>
Osprey	<i>Pandion haliaetus</i>
Black Hawk-Eagle	<i>Spizaetus tyrannus</i>
Common Black Hawk	<i>Buteogallus anthracinus</i>
White Hawk	<i>Pseudastur albicollis</i>
Gray-lined Hawk	<i>Buteo nitidus</i>
Short-tailed Hawk	<i>Buteo brachyurus</i>
Zone-tailed Hawk	<i>Buteo albonotatus</i>
Southern Lapwing	<i>Vanellus chilensis</i>
Semi-palmated Plover	<i>Charadrius semipalmatus</i>
Spotted Sandpiper	<i>Actitis macularius</i>
Solitary Sandpiper	<i>Tringa solitaria</i>
Least Tern	<i>Sternula antillarum</i>
Royal Tern	<i>Thalasseus maximus</i>
Scaled Pigeon	<i>Patagioenas speciosa</i>
White-tipped Dove	<i>Leptotila verreauxi</i>
Common Ground Dove	<i>Columbina passerina</i>
Ruddy Ground Dove	<i>Columbina talpacoti</i>
Smooth-billed Ani	<i>Crotophaga ani</i>
Squirrel Cuckoo	<i>Piaya cayana</i>
Ferruginous Pygmy-Owl	<i>Glaucidium brasilianum</i>
Common Pauraque	<i>Nyctidromus albicollis</i>
Short-tailed Swift	<i>Chaetura brachyura</i>
Rufous-breasted Hermit	<i>Glaucis hirsutus</i>
Little Hermit	<i>Phaethornis longuemareus</i>
Green Hermit	<i>Phaethornis guy</i>
Tufted Coquette	<i>Lophornis ornatus</i>
Blue-chinned Sapphire	<i>Chlorestes notata</i>
White-chested Emerald	<i>Amazilia brevirostris</i>



Copper-rumped Hummingbird	<i>Amazilia tobaci</i>
Green-backed Trogon	<i>Trogon viridis</i>
Guianan Trogon	<i>Trogon violaceus</i>
Ringed Kingfisher	<i>Megaceryle torquata</i>
Green Kingfisher	<i>Chloroceryle americana</i>
Rufous-tailed Jacamar	<i>Galbula ruficauda</i>
Channel-billed Toucan	<i>Ramphastos vitellinus</i>
Lineated Woodpecker	<i>Dryocopus lineatus</i>
Crimson-crested Woodpecker	<i>Campephilus melanoleucos</i>
Crested Caracara	<i>Caracara cheriway</i>
Yellow-headed Caracara	<i>Milvago chimachima</i>
Merlin	<i>Falco columbarius</i>
Lilac-tailed Parrotlet	<i>Touit batavicus</i>
Orange-winged Parrot	<i>Amazona amazonica</i>
Black-crested Antshrike	<i>Sakesphorus canadensis</i>
Barred Antshrike	<i>Thamnophilus doliatus</i>
White-flanked Antwren	<i>Myrmotherula axillaris</i>
Silvered Antbird	<i>Sclateria naevia</i>
White-bellied Antbird	<i>Myrmeciza longipes</i>
Cocoa Woodcreeper	<i>Xiphorhynchus susurrans</i>
Streaked Xenops	<i>Xenops rutilans</i>
Pale-breasted Spinetail	<i>Synallaxis albescens</i>
Forest Elaenia	<i>Myiopagis gaimardii</i>
Yellow-bellied Elaenia	<i>Elaenia flavogaster</i>
Southern Beardless-Tyrannulet	<i>Camptostoma obsoletum</i>
Ochre-bellied Flycatcher	<i>Mionectes oleagineus</i>
Yellow-breasted Flycatcher	<i>Tolmomyias flaviventris</i>
Bran-colored Flycatcher	<i>Myiophobus fasciatus</i>
Great Kiskadee	<i>Pitangus sulphuratus</i>
Boat-billed Flycatcher	<i>Megarynchus pitangua</i>
Tropical Kingbird	<i>Tyrannus melancholicus</i>
Gray Kingbird	<i>Tyrannus dominicensis</i>
Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>
White-bearded Manakin	<i>Manacus manacus</i>
Golden-headed Manakin	<i>Ceratopipra erythrocephala</i>
Rufous-browed Peppershrike	<i>Cyclarhis gujanensis</i>
Golden-fronted Greenlet	<i>Pachysylvia aurantiifrons</i>
Red-eyed Vireo	<i>Vireo olivaceus</i>
Southern Rough-winged Swallow	<i>Stelgidopteryx ruficollis</i>
Gray-breasted Martin	<i>Progne chalybea</i>
White-winged Swallow	<i>Tachycineta albiventer</i>
Barn Swallow	<i>Hirundo rustica</i>
House Wren	<i>Troglodytes aedon</i>
Rufous-breasted Wren	<i>Pheugopedius rutilus</i>

Long-billed Gnatwren	<i>Ramphocaenus melanurus</i>
Spectacled Thrush	<i>Turdus nudigenis</i>
White-necked Thrush	<i>Turdus albicollis</i>
Tropical Mockingbird	<i>Mimus gilvus</i>
White-shouldered Tanager	<i>Tachyphonus luctuosus</i>
White-lined Tanager	<i>Tachyphonus rufus</i>
Silver-beaked Tanager	<i>Ramphocelus carbo</i>
Blue-gray Tanager	<i>Thraupis episcopus</i>
Palm Tanager	<i>Thraupis palmarum</i>
Turquoise Tanager	<i>Tangara mexicana</i>
Blue Dacnis	<i>Dacnis cayana</i>
Purple Honeycreeper	<i>Cyanerpes caeruleus</i>
Grayish Saltator	<i>Saltator coerulescens</i>
Blue-black Grassquit	<i>Volatinia jacarina</i>
Chestnut-bellied Seed-Finch	<i>Sporophila angolensis</i>
Bananaquit	<i>Coereba flaveola</i>
Northern Waterthrush	<i>Parkesia noveboracensis</i>
Tropical Parula	<i>Setophaga pitiayumi</i>
Golden-crowned Warbler	<i>Basileuterus culicivorus</i>
Crested Oropendola	<i>Psarocolius decumanus</i>
Yellow-rumped Cacique	<i>Cacicus cela</i>
Yellow Oriole	<i>Icterus nigrogularis</i>
Shiny Cowbird	<i>Molothrus bonariensis</i>
Carib Grackle	<i>Quiscalus lugubris</i>
Trinidad Euphonia	<i>Euphonia trinitatis</i>
Violaceous Euphonia	<i>Euphonia violacea</i>

### Mammals – 12 species from 6 families (compiled by Laura Baboolal)

Common name	Scientific name	Family
Red Howler Monkey	<i>Alouatta macconnelli</i>	Atelidae
Gervais's Fruit-eating Bat	<i>Artibeus cinereus</i>	Phyllostomidae
Jamaican Fruit-eating Bat	<i>Artibeus jamaicensis</i>	Phyllostomidae
Great Fruit-eating Bat	<i>Artibeus lituratus</i>	Phyllostomidae
Seba's Short-tailed Bat	<i>Carollia perspicillata</i>	Phyllostomidae
Crab-eating raccoon	<i>Procyon cancrivorus</i>	Procyonidae
Greater White-lined Bat	<i>Saccopteryx bilineata</i>	Emballonuridae
Common Tent-making Bat	<i>Uroderma bilobatum</i>	Phyllostomidae
Brown-bellied broad-nosed bat	<i>Platyrrhinus fusciventrus</i>	Phyllostomidae
silky anteater	<i>Cyclopes didactylus</i>	Cyclopedidae
Rat species	NA	NA
Lesser White-lined Bat	<i>Saccopteryx leptura</i>	Emballonuridae

## Reptiles - 25 species from 15 families (compiled by Renoir Auguste)

Common Name	Scientific Name	Family
Zandolie	<i>Ameiva atrigularis</i>	Teiidae
Leaf Anole	<i>Anolis planiceps</i>	Dactyloidae
Mapepire Balsain	<i>Bothrops atrox</i>	Viperidae
Spectacled Caiman	<i>Caiman crocodilus</i>	Alligatoridae
Green Turtle	<i>Chelonia mydas</i>	Cheloniidae
Beach Runner	<i>Cnemidophorus lemniscatus</i>	Teiidae
Ruschenberger's Treeboa	<i>Corallus ruschenbergieri</i>	Boidae
Streak Lizard	<i>Gonatodes vittatus</i>	Sphaerodactylidae
Underwood's Spectacled Tegu	<i>Gymnophthalmus underwoodi</i>	Gymnophthalmidae
House Gecko	<i>Hemidactylus mabouia</i>	Gekkonidae
Green Iguana	<i>Iguana iguana</i>	Iguanidae
Scorpion Mud Turtle	<i>Kinosternon scorpioides</i>	Kinosternidae
Cat-eyed Snake	<i>Leptodeira annulata ashmeadi</i>	Dipsadidae
Lora	<i>Leptophis sp.</i>	Colubridae
Neotropical Racer	<i>Mastigodryas boddaerti</i>	Colubridae
Coffee Snake	<i>Ninia atrata</i>	Dipsadidae
Brown Vine Snake	<i>Oxybelis aeneus</i>	Colubridae
Caribbean Treerunner	<i>Plica caribeana</i>	Tropiduridae
Multi-colored Tree Lizard	<i>Polychrus audobonii</i>	Hoplocercidae
Ratonel	<i>Pseudoboa neuwiedi</i>	Dipsadidae
Slug-eating Snake	<i>Sibon nebulata</i>	Dipsadidae
Turnip-tailed Gecko	<i>Thecadactylus rapicauda</i>	Gekkonidae
Rainbow Boa	<i>Epirates maurus.</i>	Boidae
Snail eating snake	<i>Dipsas trinitatis</i>	Dipsadidae
Hawksbill turtle	<i>Chelonia imbricata</i>	Cheloniidae

## Amphibians – 13 species from 7 families (compiled by Renoir Auguste)

Common Name	Scientific Name	Family
Trinidad Stream Frog	<i>Mannophryne trinitatis</i>	Aromobatidae
Marine Toad	<i>Rhinella marina</i>	Bufonidae
Urich's Prophet Frog	<i>Pristimantis urichi</i>	Craugastoridae
Marsupial Frog	<i>Flectonotus fitzgeraldi</i>	Hemiphractidae
Giant Treefrog	<i>Boana boans</i>	Hylidae
Minute Treefrog	<i>Dendropsophus goughi</i>	Hylidae
Yellow Treefrog	<i>Dendropsophus microcephalus</i>	Hylidae
Trinidad Leaf-nesting Frog	<i>Phyllomedusa trinitatis</i>	Hylidae
Tungara Frog	<i>Engystomops pustulosus</i>	Leptodactylidae
Whistling Frog	<i>Leptodactylus fuscus</i>	Leptodactylidae
Windward Ditch Frog	<i>Leptodactylus validus</i>	Leptodactylidae

Narrow mouth frog	<i>Elachistocleis ovalis</i>	Microhylidae
Emeral eyed tree frog	<i>Boana xerophylla</i>	Hylidae

### Freshwater – 34 species (compiled by Ryan Mohammed)

Common name	Scientific name	Family
Blue Land Crab	<i>Cardisoma guanhumi</i>	Gecarcinidae
Ghost crab	<i>Ocypode quadrata</i>	Ocypodidae
Mudflat Fiddler Crab	<i>Uca rapax</i>	Ocypodidae
Manicou Crab	<i>Rodriguezus garmani</i>	Pseudothelphusidae
Mangrove Tree Crab	<i>Aratus pisonii</i>	Sesarmidae
Mole crab	-	Emerita
Isopod A	-	-
Amphipod A	-	-
-	<i>Macrobrachium crenulatum</i>	-
-	<i>Atya scabra</i>	-
-	<i>Potomyrum potomyrum</i>	-
-	<i>Pottsirum glabra</i>	-
-	<i>Macrobrachium amazoniam</i>	-
-	<i>Macrobrachium carcinus</i>	-
Grapsid crab A	-	-
Jumping Guabine	<i>Anablepsoides hartii</i>	Aplocheilidae
Silverside	<i>Atherinella sp.</i>	Atherinopsidae
Crevalle Jack	<i>Caranx hippos</i>	Carangidae
Palometa	<i>Trachinotus goodei</i>	Carangidae
Snook	<i>Centropomus sp.</i>	Centropomidae
Spiny-cheek Sleeper Goby	<i>Eleotris pisonis</i>	Eleotridae
Bigmouth Sleeper Goby	<i>Gobiomorus dormitor</i>	Eleotridae
flagfin mojarra	<i>Eucinostomus melanopterus</i>	Gerreidae
River Goby	<i>Awaous banana</i>	Gobiidae
Spotted Algae-eating Goby	<i>Sicydium punctata</i>	Gobiidae
Mountain Mullet	<i>Agonostomus monticola</i>	Mugilidae
Mullet	<i>Mugil sp.</i>	Mugilidae
guppy	<i>Poecilia reticulata</i>	Poeciliidae
Zangee	<i>Synbranchus marmoratus</i>	Synbranchidae
-	<i>Dormitor maculatus</i>	-
Red-rimmed Melania	<i>Melanoides tuberculatus</i>	Thiaridae
-	<i>Nerantina clenchii</i>	-
-	<i>Neritina punctatum</i>	-
-	<i>Marisa sp.</i>	-

## Invertebrates – 92 species (compiled by Rakesh Bhukal)

### Lepidoptera

Common Name	Scientific Name	Family
-	<i>Agraulis vanillae</i>	-
Tiger moth	<i>Ammalo helops</i>	Arctiidae
Scarlet Peacock	<i>Anartia amathea amathea</i>	Nymphalidae
White Peacock	<i>Anartia jatrophae jatrophae</i>	Nymphalidae
two-barred flasher	<i>Astraptus fulgerator</i>	-
Teucer Owl Butterfly	<i>Caligo teucer</i>	Nymphalidae
Penelope Satyr	<i>Cissia penelope</i>	Nymphalidae
Julia	<i>Dryas iulia</i>	Nymphalidae
Mylitta Greenwing	<i>Dynamine postverta</i>	Nymphalidae
Juliette	<i>Eueides aliphera</i>	Nymphalidae
-	<i>Euptoia hegesia</i>	-
-	<i>Eurema sp.</i>	-
-	family: <i>Lycaenidae</i>	-
Variable Cracker	<i>Hamadryas feronia</i>	Nymphalidae
Red Postman	<i>Heliconius erato</i>	Nymphalidae
-	<i>Heliconius ethilla</i>	-
Hermes Satyr	<i>Hermeuptychia hermes</i>	Nymphalidae
-	<i>Hypolimnus misippus</i>	-
White Crescent	<i>Janatella leucodesma</i>	Nymphalidae
Molpe Metalmark	<i>Juditha molpe</i>	Riodinidae
Buckeye	<i>Junonia genoveva genoveva</i>	Nymphalidae
Unknown satyr	<i>Magneuptychia sp.</i>	Nymphalidae
Orange-spotted Tiger Clearwing	<i>Mechanitis polymnia</i>	Nymphalidae
-	<i>Mestra hersilia</i>	-
Emperor	<i>Morpho helenor insularis</i>	Nymphalidae
Two Banded Satyr	<i>Pareuptychia ocirrhoe</i>	Nymphalidae
Cattleheart	<i>Parides sp. prob. anchises</i>	Papilionidae
Cloudless Sulphur	<i>Phoebis sennae</i>	Pieridae
-	<i>Polites vibex</i>	-
Pyrgus Checkered Skipper	<i>Pyrgus orcus</i>	Hesperiidae
Pale Yellow	<i>Pyrisitia venusta</i>	Pieridae
-	<i>Staphylus sp.</i>	-
Red-waisted Florella Moth	<i>Syngamia florella</i>	Crambidae
Laches Satyr	<i>Taygetis laches</i>	Nymphalidae
Banana Stem Borer Moth	<i>Telchin licus</i>	Castniidae
-	<i>Urania sp.</i>	-
Plain Longtail	<i>Urbanus simplicius</i>	Hesperiidae
painted lady	<i>Vanessa cardui</i>	-
none (moth)	<i>Virbia medarda</i>	Erebidae

Butterfly	<i>Yptalmoides renata</i>	Nymphalidae
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### Arachnids (compiled by Rakesh Bhukal)

Common Name	Scientific Name	Family
Scorpion	<i>Ananteris cussinii</i>	Buthidae
Scorpion	<i>Microtityus rickyi</i>	Buthidae
Scorpion	<i>Tityus clathratus</i>	Buthidae
Scorpion	<i>Tityus melanostichus</i>	Buthidae
Scorpion	<i>Tityus tenuicauda</i>	Buthidae
Scorpion	<i>Broteochactus nitidus</i>	Chactidae
Prowling spider	sp A (inat)	Miturgidae
Golden Orb Weaver	<i>Nephila clavipes</i>	Nephilidae
Pink-toed Tarantula	<i>Avicularia avicularia</i>	Theraphosidae
Cobweb spider	-	Theridiidae
Trinidad Olive Tarantula	<i>Neoholothele incei</i>	Therphosidae
Spider	<i>coscinaeuta</i> sp	-
Spider	<i>Cyriocosmus elegans</i>	-

### Other Insects/invertebrates (compiled by Rakesh Bhukal)

Common Name	Scientific Name	Family
Acrocinus	<i>acrocinus</i> sp	-
Assassin bug	<i>anisoscelus</i> sp	-
zygoptera	<i>argia translata</i>	-
Click beetle	<i>Chalcolepidus</i> sp.	Elateridae
odonata	<i>Dythemis</i> spp.	-
odonata	<i>Erythrodiplata</i> sp	-
Coleoptera	<i>Haruspex inscriptus</i>	-
-	<i>lagochirus</i> sp A	-
-	<i>lagochirus</i> sp B	-
zygoptera	<i>meeistogaster ornata</i>	-
mantid	<i>Ocnophiloidea regularis</i>	-
odonata	<i>oligoclada walkeri</i>	-
Flat-faced longhorn beetle	<i>Onciderini</i>	Cerambycidae
longhorn	<i>Onychocerus crassus</i>	Cerambycidae
odonata	<i>orthemis discolor</i>	-
Kissing bug	<i>Panstrongylus geniculatus</i>	Reduviidae
Passalus beetle	<i>Passalus</i> sp.	Passalidae
Ground beetle	<i>Pheropsophus aequinoctialis</i>	Carabidae
hemiptera	<i>redwiidae</i>	-
mantid	<i>Reoxylys spinosus</i>	-
hemiptera	<i>scapteriscus didactylus</i>	-

orthoptera	<i>sp 2</i>	-
orthoptera	<i>sp 3</i>	-
orthoptera	<i>sp 4</i>	-
orthoptera	<i>sp 5</i>	-
orthoptera	<i>sp 6</i>	-
-	<i>sp A</i>	Coccinellidae
Grasshopper	<i>Sp. 1</i>	Acrididae
phasmatodea	<i>sp1</i>	-
phasmatodea	<i>sp2</i>	-
phasmatodea	<i>sp3</i>	-
phasmatodea	<i>sp4</i>	-
phasmatodea	<i>sp5</i>	-
Mantid	<i>Thesprotia filum</i>	-
odonata	<i>Tramea abdominalis</i>	-
hemiptera	<i>tribelicephalinae</i>	-
Assassin bug	<i>Zelus sp.</i>	Reduviidae
Hoverfly	-	Syrphidae
land planarium	-	Geoplanidae
milliepede	-	-

### Plants – 230 species (compiled by Shane Ballah)

Family	Genus	Taxon
Acanthaceae	Pachystachys	<i>Pachystachys coccinea</i>
Acanthaceae	Ruellia	<i>Ruellia tuberosa</i>
Agavaceae	Cordyline	<i>Cordyline fruticosa</i>
Amaranthaceae	-	<i>Achyranthes</i>
Amaranthaceae	-	<i>Alternanthera</i>
Amaranthaceae	-	<i>Amaranthus sp</i>
Amaryllidaceae	Crinum	<i>Crinum xanthophyllum</i>
Anacardiaceae	Anacardium	<i>Anacardium occidentale</i>
Anacardiaceae	Mangifera	<i>Mangifera indica</i>
Anacardiaceae	Spondias	<i>Spondias mombin</i>
Anacardiaceae	Spondias	<i>Spondias purpurea</i>
Annonaceae	Annona	<i>Annona glabra</i>
Annonaceae	Annona	<i>Annona squamosa</i>
Annonaceae	Rollinia	<i>Rollinia exsucca</i>
Apiaceae	Hydrocotyle	<i>Hydrocotyle leucocephala</i>
Apocynaceae	Allamanda	<i>Allamanda cathartica</i>
Apocynaceae	Catharanthus	<i>Catharanthus roseus</i>
Apocynaceae	Plumeria	<i>Plumeria rubra</i>
Apocynaceae	Rauwolfia	<i>Rauwolfia viridis</i>

Apocynaceae	Tabernaemontana	<i>Tabernaemontana attenuata</i>
Araceae	Caladium	<i>Caladium sp</i>
Araceae	Colocasia	<i>Colocasia esculenta</i>
Araceae	Dieffenbachia	<i>Dieffenbachia seguine</i>
Araceae	Monstera	<i>Monstera adansonii</i>
Araceae	Monstera	<i>Monstera dubia</i>
Araceae	Monstera	<i>Monstera obliqua</i>
Araceae	Philodendron	<i>Philodendron sp.</i>
Araceae	Spathiphyllum	<i>Spathiphyllum cannifolium</i>
Araliaceae	Schefflera	<i>Schefflera morototoni</i>
Arecaceae	Acrocomia	<i>Acrocomia aculeata</i>
Arecaceae	Adonidia	<i>Adonidia merrillii</i>
Arecaceae	Attalea	<i>Attalea maripa</i>
Arecaceae	Bactris	<i>Bactris gasipaes</i>
Arecaceae	Bactris	<i>Bactris major</i>
Arecaceae	Cocos	<i>Cocos nucifera</i>
Arecaceae	Cocothrinax	<i>Cocothrinax barbadensis</i>
Arecaceae	Desmoncus	<i>Desmoncus polyacanthos</i>
Arecaceae	Euterpe	<i>Euterpe precatória</i>
Arecaceae	Roystonea	<i>Roystonea oleracea</i>
Arecaceae	Sabal	<i>Sabal mauritiiformis</i>
Arecaceae	Saribus	<i>Saribus rotundifolius</i>
Arliaceae	Didymopanax	<i>Didymopanax morototoni</i>
Asparagaceae	Agave	<i>Agave tequilana</i>
Asteraceae	-	<i>Acanthospermum sp</i>
Asteraceae	Ageratum	<i>Ageratum conyzoides</i>
Asteraceae	Bidens	<i>Bidens pilosa</i>
Asteraceae	-	<i>Elcipta sp</i>
Asteraceae	Rolandra	<i>Rolandra fruticosa</i>
Asteraceae	Sphagneticola	<i>Sphagneticola trilobata</i>
Asteraceae	-	<i>Synedrella nodiflora</i>
Asteraceae	-	<i>Vernonia cinerea</i>
Asteraceae	-	<i>Wedelia caracasana</i>
Asteraceae	Wulffia	<i>Wulffia baccata</i>
Begoniaceae	Begonia	<i>Begonia glandulifera</i>
Bignoniaceae	Campsis	<i>Campsis radicans</i>
Bignoniaceae	Crescentia	<i>Crescentia cujete</i>
Bignoniaceae	Handroanthus	<i>Handroanthus chysanthus</i>
Bignoniaceae	Tabebuia	<i>Tabebuia serratifolia</i>
Boraginaceae	Cordia	<i>Cordia alliodora</i>
Boraginaceae	Cordia	<i>Cordia collococca</i>
Boraginaceae	Cordia	<i>Cordia curassavica</i>
Bromeliaceae	Aechmea	<i>Aechmea nudicaulis var. nudicaulis</i>
Bromeliaceae	Bromelia	<i>Bromelia plumieri</i>



Bromeliaceae	Tillandsia	<i>Tillandsia sp.</i>
Burseraceae	Protium	<i>Protium sagotianum</i>
Cactaceae	Epiphyllum	<i>Epiphyllum phyllanthus</i>
Cactaceae	Hylocereus	<i>Hylocereus undatus</i>
Cactaceae	Rhipsalis	<i>Rhipsalis baccifera</i>
Calophyllaceae	Mammea	<i>Mammea americana</i>
Campanulaceae	Centropogon	<i>Centropogon cornutus</i>
Cannabaceae	Trema	<i>Trema micrantha</i>
Caparidaceae	-	<i>Cleome aculeata</i>
Casuarinaceae	Casuarina	<i>Casuarina equisetifolia</i>
Clusiaceae	Clusia	<i>Clusia palmicida</i>
Clusiaceae	Garcinia	<i>Garcinia sp.</i>
Combretaceae	Terminalia	<i>Terminalia amazonia</i>
Combretaceae	Terminalia	<i>Terminalia catappa</i>
Commelinaceae	Commelina	<i>Commelina diffusa</i>
Commelinaceae	Commelina	<i>Commelina erecta</i>
Convolvulaceae	Ipomoea	<i>Ipomoea sp</i>
Costaceae	Costus	<i>Costus scaber</i>
Cucurbitaceae	Momordica	<i>Momordica charantia</i>
Cyatheaceae	Cnemidaria	<i>Cnemidaria spectabilis</i>
Cyperaceae	Cyperus	<i>Cyperus compressus</i>
Cyperaceae	Cyperus	<i>Cyperus ligularis</i>
Cyperaceae	Cyperus	<i>Cyperus luzulae</i>
Cyperaceae	Scleria	<i>Scleria secans</i>
Cyperaceae	-	<i>Sedge Lawn</i>
Dioscoreaceae	Dioscorea	<i>Dioscorea sp.</i>
Dracaenaceae	-	<i>Dracaenium (Yellow Ornamental)</i>
Ebenaceae	Diospyros	<i>Diospyros inconstans</i>
Erythroxylaceae	Erythroxylum	<i>Erythroxylum havanense</i>
Euphorbaceae	Sapium	<i>Sapium glandulosum</i>
Euphorbiaceae	Acalypha	<i>Acalypha (Big Ornamental)</i>
Euphorbiaceae	Acalypha	<i>Acalypha sp</i>
Euphorbiaceae	-	<i>Chanaesyce hirta</i>
Euphorbiaceae	-	<i>Chanaesyce sp</i>
Euphorbiaceae	-	<i>Euphorbia sp</i>
Euphorbiaceae	Hura	<i>Hura crepitans</i>
Euphorbiaceae	Manihot	<i>Manihot esculenta</i>
Euphorbiaceae	-	<i>Succulent</i>
Fabaceae	Abarema	<i>Abarema jupunba</i>
Fabaceae	Alysicarpus	<i>Alysicarpus vaginalis</i>
Fabaceae	Andira	<i>Andira inermis ssp. inermis</i>
Fabaceae	Andira	<i>Andira surinamensis (retusa)</i>
Fabaceae	Brownea	<i>Brownea coccinea ssp. capitella</i>
Fabaceae	Caesalpinia	<i>Caesalpinia Pulcherrima</i>

Fabaceae	Canjanus	<i>Cajanus cajan</i>
Fabaceae	Calliandra	<i>Calliandra guildingii</i>
Fabaceae	Cassia	<i>Cassia fistula</i>
Fabaceae	Clathrotropis	<i>Clathrotropis brachypetala</i>
Fabaceae	Coursetia	<i>Coursetia ferruginea</i>
Fabaceae	Crotolaria	<i>Crotolaris retusa</i>
Fabaceae	Delonix	<i>Delonix regia</i>
Fabaceae	Desmodium	<i>Desmodium adscendens</i>
Fabaceae	Desmodium	<i>Desmodium canum</i>
Fabaceae	Dipteryx	<i>Dipteryx odorata</i>
Fabaceae	Erythrina	<i>Erythrina fusca</i>
Fabaceae	Erythrina	<i>Erythrina pallida</i>
Fabaceae	Erythrina	<i>Erythrina poeppigiana</i>
Fabaceae	-	<i>Gliricidia sepium</i>
Fabaceae	Inga	<i>Inga ingoides</i>
Fabaceae	Inga	<i>Inga venosa</i>
Fabaceae	Mimosa	<i>Mimosa pudica</i>
Fabaceae	Mora	<i>Mora excelsa</i>
Fabaceae	Pterocarpus	<i>Pterocarpus rohrii</i>
Fabaceae	Samanea	<i>Samanea saman</i>
Fabaceae	Saraca	<i>Saraca asoca</i>
Fabaceae	Senna	<i>Senna bacillaris</i>
Fabaceae	Swartzia	<i>Swartzia pinnata</i>
Fabaceae	Swartzia	<i>Swartzia simplex</i>
Fabaceae	Swartzia	<i>Swartzia trinitensis</i>
Fabaceae	Fabaceae	<i>Tamarindus indica</i>
Fabaceae	Vigna	<i>Vigna luteola</i>
Graminae	-	<i>Brachiaria sp</i>
Graminae	-	<i>Eleusine indica</i>
Graminae	-	<i>Sorghum sp</i>
Graminae	-	<i>Sporobolus indicus</i>
Graminae	Zoysia	<i>Zoysia sp (Lawn grass)</i>
Heliconiaceae	Heliconia	<i>Heliconia bihai</i>
Heliconiaceae	Heliconia	<i>Heliconia hirsuta</i>
Heliconiaceae	Heliconia	<i>Heliconia psittacorum</i>
Hernandiaceae	Hernandia	<i>Hernandia guianensis</i>
Hypericaceae	Vismia	<i>Vismia cayennensis</i>
Lamiaceae	Tectona	<i>Tectona grandis</i>
Lamiaceae	Thymus	<i>Thymus vulgaris</i>
Lamiaceae	Vitex	<i>Vitex divaricata</i>
Lauraceae	Laurus	<i>Laurus nobilis</i>
Lauraceae	Persea	<i>Persea americana</i>
Lecythidaceae	Eschweilera	<i>Eschweilera subglandulosa</i>
Leguminosae	Machaerium	<i>Machaerium robinifolium</i>

Lycopodiaceae	Lycopodium	<i>Lycopodium sp.</i>
Malvaceae	Abelmoschus	<i>Abelmoschus esculentus</i>
Malvaceae	Guazuma	<i>Guazuma ulmifolia</i>
Malvaceae	Hibiscus	<i>Hibiscus rosa-sinensis</i>
Malvaceae	Ochroma	<i>Ochroma pyramidale</i>
Malvaceae	Sida	<i>Sida acuta</i>
Malvaceae	Sterculia	<i>Sterculia caribaea</i>
Malvaceae	Theobroma	<i>Theobroma cacao</i>
Melastomataceae	Aciotis	<i>Aciotis purpurascens</i>
Melastomataceae	Clidemia	<i>Clidemia debilis</i>
Melastomataceae	Clidemia	<i>Clidemia dentata</i>
Melastomataceae	Clidemia	<i>Clidemia hirta</i>
Melastomataceae	Miconia	<i>Miconia nervosa</i>
Melastomataceae	Miconia	<i>Miconia sp.</i>
Meliaceae	Cedrela	<i>Cedrela odorata</i>
Meliaceae	Guarea	<i>Guarea glabra</i>
Meliaceae	Swietenia	<i>Swietenia mahagoni</i>
Moraceae	Artocarpus	<i>Artocarpus altilis</i>
Moraceae	Castilla	<i>Castilla elastica ssp. elastica</i>
Moraceae	Ficus	<i>Ficus nymphaeifolia</i>
Moringaceae	Moringa	<i>Moringa oleifera</i>
Myristicaceae	Virola	<i>Virola surinamensis</i>
Myrtaceae	Myrcia	<i>Myrcia platyclada</i>
Myrtaceae	Myrciaria	<i>Myrtaceae sp.</i>
Myrtaceae	Psidium	<i>Psidium guajava</i>
Myrtaceae	Syzygium	<i>Syzygium malaccense</i>
Nyctaginaceae	Bougainvillea	<i>Bougainvillea spectabilis</i>
Onagraceae	Ludwigia	<i>Ludwigia octovalvis</i>
Orchidaceae	Cualtharon	<i>Caularthron bicornutum</i>
Oxalidaceae	Averrhoa	<i>Averrhoa carambola</i>
Oxalidaceae	Oxalis	<i>Oxalis dibilis</i>
Palmae	-	<i>Chrysalidocarpus</i>
Pandanaceae	-	<i>Pandanus (Yellow varigated)</i>
Poaceae	Axonopus	<i>Axonopus compressus</i>
Poaceae	Bambusa	<i>Bambusa vulgaris</i>
Poaceae	Chloris	<i>Chloris barbata</i>
Poaceae	Panicum	<i>Panicum fasciculatum</i>
Poaceae	Panicum	<i>Panicum sp</i>
Poaceae	Paspalum	<i>Paspalum decumbens</i>
Poaceae	Saccharum	<i>Saccharum officinarum</i>
Polygonaceae	Coccoloba	<i>Coccoloba latifolia</i>
Polygonaceae	Coccoloba	<i>Coccoloba uvifera</i>
Polypodiaceae	Polypodium	<i>Polypodium polypodioides</i>
Polypodiaceae	Polypodium	<i>Polypodium sp.</i>

Portulacaceae	Portulaca	<i>Portulaca oleracea</i>
Rubiaceae	Coffea	<i>Coffea arabica</i>
Rubiaceae	Faramea	<i>Faramea occidentalis</i>
Rubiaceae	Genipa	<i>Genipa americana</i>
Rubiaceae	Gonzalagunia	<i>Gonzalagunia spicata</i>
Rubiaceae	Hamelia	<i>Hamelia patens</i>
Rubiaceae	Ixora	<i>Ixora coccinea</i>
Rubiaceae	Mussaenda	<i>Mussaenda x philippica</i>
Rubiaceae	Palicourea	<i>Palicourea crocea</i>
Rubiaceae	Rudgea	<i>Rudgea hostmanniana</i>
Rubiaceae	Spermacoce	<i>Spermacoce ocymoides</i>
Rubiaceae	Warszewiczia	<i>Warszewiczia coccinea</i>
Rutaceae	Citrus	<i>Citrus deliciosa</i>
Rutaceae	Citrus	<i>Citrus x latifolia</i>
Rutaceae	Citrus	<i>Citrus x sinensis</i>
Rutaceae	Zanthoxylum	<i>Zanthoxylum martinicense</i>
Salicaceae	Casearia	<i>Casearia guianensis</i>
Sapindaceae	Cupania	<i>Cupania americana</i>
Sapindaceae	Meliococcus	<i>Meliococcus bijugatus</i>
Sapindaceae	Serjania	<i>Serjania paucidentata</i>
Sapotaceae	Chrysophyllum	<i>Chrysophyllum argenteum ssp. argenteum</i>
Sapotaceae	Chrysophyllum	<i>Chrysophyllum sp.</i>
Sapotaceae	Manilkara	<i>Manilkara bidentata ssp. bidentata</i>
Sapotaceae	Sideroxylon	<i>Sideroxylon foetidissimum</i>
Schizaeaceae	Lygodium	<i>Lygodium sp.</i>
Selaginellaceae	Selaginella	<i>Selaginella sp.</i>
Smilacaceae	Smilax	<i>Smilax solanifolia</i>
Smilacaceae	Smilax	<i>Smilax sp.</i>
Solanaceae	Solanum	<i>Solanum stramonifolium</i>
Urticaceae	Cecropia	<i>Cecropia peltata</i>
Verbenaceae	Lantana	<i>Lantana camara</i>
Verbenaceae	Lantana	<i>Lantana sp.</i>
Verbenaceae	-	<i>Priva lappulaceae</i>
Verbenaceae	Stachytarpheta	<i>Stachytarpheta jamaicensis</i>
Zingiberaceae	Renealmia	<i>Renealmia alpinia</i>

### Marine – 121 species (compiled by Marianna Rampaul)

Common name	Scientific name	Family	Location
Bearded Fireworm	<i>Hermodice carunculata</i>	Amphinomidae	Salybia Reef
Brown fanworm	<i>Notaulax nudicollis</i>	Sabellidae	Salybia Reef
Calcareous Tube Worm 1	-	-	Galera

Featherduster worm	<i>Sabelida sp.</i>	-	Salybia Reef
Varigated feather duster	<i>Bispira variegata</i>	Sabellidae	Salybia Reef
Tunicate: Green unidentified sp.	-	Asciacea	
Anemone 1	-	-	
Anemone: Beaded anemone	<i>Plymanthus crucifer</i>	Phymanthidae	Salybia Reef, Galera
Anemone: Branching Anemone	<i>Lebruina neglecta</i>	Aliciidae	Galera
Anemone: Red warty anemone	<i>Bunodosoma granulifera</i>	Actiniidae	Galera
Anemone: Sponge Anemone	Undetermined	Undetermined	Galera
Anemone: Sun anemone	<i>Stichodactyla helianthus</i>	Stichodactylidae	Salybia Reef
Anemone: Tube Anemone	-	-	
Common Sea Fan	<i>Gorgonia ventalina</i>	Gorgoniidae	Grand L'Anse
Finger coral	<i>Porites porites</i>	Poritidae	Salybia Reef
Fire coral - Blade fire coral	<i>Millepora complanata</i>	Milleporidae	Salybia Reef
Fire coral - Branching fire coral	<i>Millepora alcicornis</i>	Milleporidae	Salybia Reef
Green sea mat	<i>Zoanthus sociatus</i>	Zoanthidae	Salybia Reef
Lesser starlet coral	<i>Siderastrea radians</i>	Siderastreidae	Salybia Reef
Sea rod: Porous Sea Rod	<i>Pseudoplexaura spp.</i>	Plexauridae	Salybia Reef
Starlet coral: Lesser starlet coral	<i>Siderastrea radians</i>	Siderastreidae	Salybia Reef
Starlet coral: Massive starlet coral	<i>Siderastrea sidera</i>	Siderastreidae	Salybia Reef
Zoanthid: Mat zoanthid	<i>Zoanthus pulchellus</i>	Zoanthidae	Salybia Reef
Zoanthid: White encrusting zoanthid	<i>Palythoa caribaeorum</i>	Sphenopidae	Salybia Reef
Crab A (burgundy with white spots)	-	Decapoda	Grand L'Anse, Galera, Salybia Reef
Crab: "Stone Crab"	?	-	Salybia Reef
Crab: Cillique (Blue crab)	<i>Callaniacted sp.</i>	-	Salybia Reef
Crab: Green clinging crab	<i>Mithraculus sculptus</i>	Mithracidae	
Crab: Orange Claw Hermit	<i>Calcinus tribeces?</i>	-	Salybia Reef
Crab: Porcelain Crab A	<i>Petrolisthes sp.</i>	Porcellanidae	Salybia Reef
Crab: Rubble Crab	-	Xanthidae	
Crab: Sally lightfoot crab	<i>Grapsus grapsus</i>	Grapsidae	
Crab: Swimming crab	<i>Portunidae</i>	Portunidae	Salybia Reef
Crab: Tidal Spray Crab	<i>Plagusia depressa</i>	Plagusiidae	Grand L'Anse, Galera
Crab: Zagaya	<i>Grapsidae sp.</i>	Grapsidae	Salybia Reef

Mangrove Tree-climbing Crab	<i>Aratus pisonii</i>	Sesarmidae	"Base camp beach", Cemetary Street, Toco
Mantis shrimp	-	Stomatopoda	
Unidentified shrimp	-	-	
Velvet Shrimp	<i>Metapenaeopsis goodie</i>	Penaeidae	
Crab species A	-	-	Galera
Lobster species A	-	-	Galera
Brittle star	<i>Ophioderma sp.</i>	Ophiodermatidae	
Brittle star: Banded-arm brittle star	<i>Ophioderma appressa</i>	Ophiodermatidae	
Sea cucumber 1	<i>Holothuria grisea</i>	-	
Sea cucumber 2	<i>Isostichopus badionotus</i>	-	
Sea cucumber 3	<i>Holothuria sunnomensis</i>	-	
Urchin: Rock boring urchin	<i>Echinometra lucunter</i>	Echinometridae	Salybia
Chain moray eel	<i>Echidna catenata</i>	Muraenidae	Grand L'Anse
Green moray eel	<i>Gumnothorax funebris</i>	Muraenidae	Salybia
Sharptail eel	<i>Myrichthys breviceps</i>	Ophichthida	Salybia
Bandtail Pufferfish	<i>Sphoeroides spengleri</i>	Tetraodonitdae	Salybia
Bass sp. 1	<i>Serranus sp.</i>	-	
Beaugregory Damselfish	<i>Stegastes leucostictus</i>	Pomacentridae	
Blenny: Mimic blenny	<i>Labrisomus guppyi</i>	Labrisomidae	
Checkered puffer	<i>Sphoeroides testudineus</i>	Tetraodontidae	
Crevalle Jack	<i>Caranx hippos</i>	Carangidae	Galera
Damselfish: Coco Damselfish	<i>Stegastes variabilis</i>	Pomacanthidae	
Damselfish: Dusky damselfish	<i>Stegastes adustus</i>	Pomacanthidae	
Damselfish: Dusky damselfish	<i>Stegastes adustus</i>	Pomacanthidae	
Damselfish: Sergeant major	<i>Abudefduf saxatilis</i>	Pomacanthidae	
Goby sp. 1	-	Gobiidae	
Leather jack	<i>Oligoplites sp.</i>	Carangidae	
Mimic Blenny	<i>Labrisomus guppyi</i>	Labrisomidae	
Mojarra	<i>Gerreidae sp.</i>	Gerreidae	Grand L'Anse
Palmoeta	<i>Trachinotus goodei</i>	Carangidae	Grand L'Anse
Porkfish	<i>Anisotremus virginicus</i>	Haemulidae	Salybia Reef
Princess parrotfish	<i>Scarus taeniopter</i>	Scaridae	Salybia Reef
Sapo Bocon	<i>Amphichthys cryptocentrus</i>	Batrachoididae	Salybia Reef
Scorpionfish	<i>Scorpaenidae</i>	Scorpaenidae	Salybia Reef

Sergeant Major damselfish	<i>Abudefduf saxatilis</i>	Pomacanthidae	Salybia Reef
Slippery dick wrasse	<i>Halichoeres bivittatus</i>	Labridae	Salybia Reef
Spotfin Butterflyfish	<i>Chaetodon ocellatus</i>	Chaetodontidae	Salybia Reef
Spotted Scorpionfish	<i>Scorpaena plumieri</i>	Scorpaenidae	Salybia Reef
Brown algae: Cytoseria sp.	<i>Cytoseria sp.</i>	Fucaceae	Salybia Reef
Crutose Coralline Algae	<i>Corallinales</i>	Corallinales	Salybia Reef
Feather alga (soft)	<i>Bryopsis pennata</i>	Bryopsidaceae	Salybia Reef
Green bubble weed	<i>Dictyosphaeria cavernosa</i>	Chlorophyta	Salybia Reef
Green feather alga	<i>Caulerpa sertularioides</i>	Chlorophyta	Salybia Reef
Green filamentous algae 1	-	-	Salybia Reef
Green grape alga	<i>Caulerpa racemosa</i>	Chlorophyta	Salybia Reef
Hollow green weed	<i>Enteromorpha sp.</i>	Ulvaceae	Salybia Reef
Papyrus print alga	<i>Anadyomene stellata</i>	Chlorophyta	Salybia Reef
Sargassum alage	<i>Sargassum spp.</i>	Phaeophyta	Salybia Reef
Serrated strap algae	<i>Dictyota spp.</i>	Dictyotaceae	Salybia Reef
Spiny seaweed	<i>Acanthophora spicifera</i>	Rhodomelaceae	Salybia Reef
Turf Algal Mat	NA	NA	Salybia Reef
Twig Alga 1	<i>Amphiroa sp.</i>	Rhodophyta	Galera
Atlantic Ridged Tun	<i>Tona Maculosa</i>	Tornidae	Grand L'Anse
Brown Periwinkle	<i>Littorina angulifera</i>	Littorinidae	Grand L'Anse
Carrot Cone	<i>Conus daucus sp.</i>	Conidae	Grand L'Anse
Chestnut Turbans	<i>Turbo Castanae</i>	Turbinidae	Grand L'Anse
Cloudy Periwinkle	<i>Littorania Nebulosa</i>	Littorinidae	Grand L'Anse
Common Dove Shell	<i>Columbella Mercatonia</i>	Columbellidae	Grand L'Anse, Base camp beach
Florida Rock Shell	<i>Stramonita Floridana</i>	Muricidae	Grand L'Anse
Gaudy Asaphis	<i>Asaphis deflorata</i>	Sanguinolaridae	Base Camp Beach
Green Star Shell	<i>Astraea Tuber</i>	Trochidae	Grand L'Anse, Base camp beach
Keyhole Limpet	<i>Fissurella sp.</i>	Fissurellidae	Grand L'Anse, Base camp beach
Knorr's Worm Shell	<i>Vermicularia Knorri</i>	Vermitidae	Base Camp Beach
Leafy Jewel Box	<i>Charma Macerophylla</i>	Chamidae	Grand L'Anse
Lettuce sea slug	<i>Elysia crispata</i>	Plakobranchidae	Salybia Reef
Measled Cowrie	<i>Macrocyprae Zebra</i>	Cypraeidae	Grand L'Anse, Base camp beach
Milk Moon Shell	<i>Pollinices Lacteus</i>	Naticidae	Grand L'Anse, Base camp beach
Mossy Ark	<i>Arca Imbricata</i>	Arcidae	Grand L'Anse
Music Volute	<i>Voluta Musica</i>	Volutidae	Grand L'Anse, Base camp beach
Mussel 1	<i>Mytilidae sp. 1</i>	Mytilidae	Grand L'Anse
Mussel 2	<i>Mytilidae sp. 2</i>	Mytilidae	Grand L'Anse
Netted Olive	<i>Americola reticularis</i>	Ovulidae	Base Camp Beach

Oyster 1	<i>Ostridae sp.</i>	Ostreidae	Base Camp Beach
Queen Conch	<i>Strombus Gigus</i>	Strombidae	Salybia Reef
Reticulated Cowrie Shell	<i>Cyprae Cassis Testiculus</i>	Cassidae	Grand L'Anse
Slipper Shell	<i>Crepidula sp.</i>	Calyptraeidae	Grand L'Anse
True Limpet 1	-	Acmaidae	Grand L'Anse
Turkey Wings	<i>Arca Zebra</i>	Arcidae	Grand L'Anse, Base camp beach
West Indian Fuzzy Chiton	<i>Acanthopleura granulata</i>	Chitonidae	Grand L'Anse, Galera
West Indian Nerite	<i>Nerita Fulgurans</i>	Neritidae	Grand L'Anse, Base camp beach
Whelk	<i>Cittarium Pica</i>	Trochidae	Grand L'Anse, Base camp beach
Wide Mouthed Purpura/ Widemouth rocksnail	<i>Plicopurpura Patula</i>	Muricidae	Base Camp Beach
Zebra Periwinkle	<i>Echinolittorina Ziczac</i>	Lottorinidae	Grand L'Anse, Base camp beach
Black sponge	-	-	Salybia Reef
Blue encrusting sponge	-	-	Salybia Reef
Encrusting sponge	<i>Cliona spp.</i>	Demospongiae	Salybia Reef
Green Turtle	<i>Chelonia mydas</i>	Cheloniidae	Salybia Reef
Hawksbill Turtle	<i>Eretmochelys imbricata</i>	Cheloniidae	Grand L'Anse