

NORTH EAST TOBAGO SPECIES OF INTERNATIONAL CONSERVATION INTEREST

A Literature Review



Elkhorn coral. N. Cook



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Northside Road, Campbleton, Charlotteville
Tobago, W.I.
p. +1-868-788-3550
e. info@eric-tobago.org
w. www.eric-tobago.org

Youtube: [EricTobago](https://www.youtube.com/EricTobago)
Twitter: [@ERICTobago](https://twitter.com/ERICTobago)
Instagram: [erictobago](https://www.instagram.com/erictobago)
Facebook: www.facebook.com/ericharlotteville

INTRODUCTION

In 2015, the Environmental Research Institute Charlotteville (ERIC) undertook a literature review of species that have been reported in North East Tobago, and that are listed on, or have been reported to meet the criteria for major international lists of species of conservation concern. This report will allow rapid reference for project planning and for providing technical conservation advice.

SOURCES

1. The IUCN Red List

The International Union for the Conservation of Nature (IUCN) Red List is the most widely recognised authority on species of global conservation concern. The list is based on scientific criteria and a rigorous review process. This report lists species that have been reported in North East Tobago that are either at risk according to the IUCN Red List or that have been reported as meeting the criteria for risk on the IUCN Red List.

2. Endemic Species

Endemic species are unique to a specific geographic location. Endemic species on small islands are often of conservation concern because they have a limited geographic range. This report lists species that have been referenced as endemic and as occurring in NE Tobago.

3. EDGE Species

EDGE is a scientific framework used to identify species that are both evolutionarily distinct and globally endangered (EDGE). It is another way to assess conservation concern globally for endangered species. It complements the more commonly cited IUCN Red List. EDGE listed species that have been reported in North East Tobago are listed in this report.

4. CMS Species

The international Convention on the Conservation of Migratory Species of Wild Animals (CMS) lists species of conservation concern whose movement crosses international boundaries and that therefore require international cooperation for effective conservation. The CMS has two lists, Appendix I and Appendix II. Appendix I is 'Threatened Migratory Species'. Appendix II is 'Migratory Species Requiring International Cooperation'. Although Trinidad and Tobago is a non-party to the CMS, many internationally listed migratory species have been recorded for North East Tobago. These are listed below.

5. CITES Species

The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is an international agreement that, according to the website aims "to ensure that international trade in specimens of wild animals and plants does not threaten their survival". The convention has three lists of species, two of which are relevant to NE Tobago. Appendix I lists 'Species Threatened with Extinction'. Appendix II lists "Species not immediately threatened with extinction unless trade is closely controlled". Trinidad and Tobago is signatory to the convention.

CONCLUSION

The findings of this report are that North East Tobago hosts 56 species that meet the criteria for the IUCN Red List risk, 29 endemic species, 9 EDGE species, 18 migratory species of conservation concern and 16 CITES species. These **lists should not be taken as definitive** but as a reference points for further research, monitoring, and project and conservation planning.

IUCN RED LIST SPECIES IN NE TOBAGO

Critically Endangered – 8

Category	Taxonomy		IUCN Status Criteria	Global Trend	Source
	Taxa/ Species	Common Name			
Hard Corals	<i>Acropora cervicornis</i> [‡]	Staghorn Coral	A2ace	Stable	IUCN Red List
	<i>Acropora palmata</i> [‡]	Elkhorn Coral	A2ace	Stable	IUCN Red List
Marine Turtles	<i>Eretmochelys imbricata</i> ^{+‡}	Hawksbill Turtle	A2bd	Extensive subpopulation declines	IUCN Red List
Sharks	<i>Pristis pristis</i>	Largetooth Sawfish	A2cd	Decreasing	IUCN Red List
	<i>Isogomphodon oxyrinchus</i>	Daggernose Shark	A2ad+3d+4ad	Decreasing	IUCN Red List
Vascular Plants*	<i>Phyllanthus mimicus</i> Webster				Van den Eynden, Oatham and Johnson, 2008
	<i>Maxillaria broadwayi</i> (Cogn) RE Schult.				Van den Eynden, Oatham and Johnson, 2008
	<i>Roupala tobagensis</i>				Van den Eynden, Oatham and Johnson, 2008

* Endemic species

† Migratory species

‡ CITES species

Endangered; Total – 14

Category	Taxonomy		IUCN Status Criteria	Global Trend	Source
	Taxa/ Species	Common Name			
Terrestrial Birds	<i>Carduelis cucullata</i> [‡]	Red Siskin		Decreasing	IUCN Red List
Frogs	<i>Pristimantis urichi</i> [*]	Lesser Antilles Robber Frog	B1ab(iii)	Decreasing	IUCN Red List
	<i>Flectonotus fitzgeraldi</i> [¥]	Tree Frog	B1ab(iii)	Decreasing	IUCN Red List
Hard Corals	<i>Montastraea annularis</i> ^{¥‡}	Boulder Star Coral	A2ace	Decreasing	IUCN Red List
	<i>Montastraea faveolata</i> [¥]	Star Coral	A2ace	Decreasing	IUCN Red List
Marine Turtles	<i>Dermochelys coriacea</i> ^{†‡}	Leatherback Turtle	A2bd	Decreasing	IUCN Red List
	<i>Chelonia mydas</i> ^{†‡}	Green Turtle	A2bd	Decreasing	IUCN Red List
	<i>Caretta caretta</i> ^{†‡}	Loggerhead Turtle	A1abd	Decreasing	IUCN Red List
Commercial Fish Species	<i>Epinephelus itajara</i>	Atlantic Goliath Grouper	A2d	Unknown	IUCN Red List
	<i>Epinephelus striatus</i>	Nassau Grouper	A2ad	Decreasing	IUCN Red List
	<i>Thunnus thynnus</i>	Atlantic Bluefin Tuna	A2bd	Decreasing	IUCN Red List
Sharks and Rays	<i>Sphyrna lewini</i> ^{†‡}	Scalloped Hammerhead	A2bd+4bd	Unknown	IUCN Red List
	<i>Sphyrna mokarran</i> ^{†‡}	Squat-headed Hammerhead Shark	A2bd+4bd	Decreasing	IUCN Red List
Vascular Plants [*]	<i>Xylosma sanctae-annae</i> Sleumer				Van den Eynden, Oatham and Johnson, 2008

*Endemic species

¥EDGE species

† Migratory species

‡ CITES species

Vulnerable; Total – 21

Category	Taxonomy		IUCN Status Criteria	Global Trend	Source
	Taxa/ Species	Common Name			
Marine Turtles	<i>Lepidochelys olivacea</i> ^{†‡}	Olive Ridley Turtle	A2bd	Decreasing	IUCN Red List
Commercial Fish Species	<i>Lutjanus cyanopterus</i>	Canteen Snapper	A2d ver2.3	Unknown	IUCN Red List
	<i>Lutjanus analis</i>	Mutton Snapper	A2d, B1+2e ver2.3	Unknown	IUCN Red List
Hard Coral	<i>Dendrogyra cylindrus</i> [‡]	Pillar Coral	A4ce	Stable	IUCN Red List
	<i>Dichocoenia stokesii</i> [‡]	Elliptical Star Coral	A4c	Decreasing	IUCN Red List
	<i>Montastraea franksi</i> [‡]	Star Coral	A4ce	Decreasing	IUCN Red List
	<i>Oculina varicosa</i> [‡]	Large ivory Coral	A2ac	Unknown	IUCN Red List
Sharks and Rays	<i>Manta birostris</i> ^{†‡}	Manta Ray	A2abd+3bd+4abd	Decreasing	IUCN Red List
Frogs and Toads	<i>Mannophryne olmonae</i> [*]	Bloody Bay Poison Frog	D2	Stable	IUCN Red List
	<i>Mannophryne trinitatis</i>	Yellow Throated Frog	B1ab(iii)	Decreasing	IUCN Red List
	<i>Hyalinobatrachium orientale</i> [*]	Eastern Glass Frog	B1ab(iii)	Decreasing	IUCN Red List
	<i>Pristimantis turpinorum</i> ^{*‡}	Bloody Bay Litter Frog	D2	Stable	IUCN Red List
Vascular Plants [*]	<i>Justicia tobagensis</i> (Urb.) Wassh.				Van den Eynden, Oatham and Johnson, 2008
	<i>Odontonema brevipes</i> Urban				Van den Eynden, Oatham and Johnson, 2008
	<i>Duguetia tobagensis</i> (Urb.) R. E. Fr.				Van den Eynden, Oatham and Johnson, 2008
	<i>Dicranopygium insulare</i> (Gleas.) Harl.				Van den Eynden, Oatham and Johnson, 2008

*Endemic species

‡EDGE species

†Migratory species

‡CITES species

Category	Taxonomy		IUCN Status Criteria	Global Trend	Source
	Taxa/ Species	Common Name			
	<i>Rhynchospora ebracteata (Standl.) H.Pfeiff</i>				Van den Eynden, Oatham and Johnson, 2008
	<i>Phyllanthus acacioides Urb.</i>				Van den Eynden, Oatham and Johnson, 2008
	<i>Besleria seitzii Krug & Urb.</i>				Van den Eynden, Oatham and Johnson, 2008
	<i>Cybianthus pittieri Agostini</i>				Van den Eynden, Oatham and Johnson, 2008
	<i>Pilea tobagensis Urb.</i>				Van den Eynden, Oatham and Johnson, 2008

Near Threatened; Total – 12

Category	Taxonomy		IUCN Status Criteria	Global Trend	Source
	Taxa/ Species	Common Name			
Reef Grazing Species	<i>Scarus guacamaia</i>	Rainbow Parrotfish		Decreasing	IUCN Red List
Sharks and Rays	<i>Carcharhinus limbatus</i>	Blacktip Shark		Unknown	IUCN Red List
	<i>Carcharhinus perezi</i>	Caribbean Reef Shark		Decreasing	IUCN Red List
	<i>Aetobatus narinari</i>	Spotted Eagle Ray		Decreasing	IUCN Red List
	<i>Carcharhinus leucas</i>	Bull Shark		Unknown	IUCN Red List
	<i>Negaprion brevirostris</i>	Lemon Shark		Unknown	IUCN Red List
Terrestrial Birds	<i>Campylopterus ensipennis</i>	White-tailed Sabrewing Hummingbird [‡]		Decreasing	IUCN Red List
	<i>Calidris pusilla</i>	Semipalmated Sandpiper		Decreasing	IUCN Red List
	<i>Tryngites subruficollis</i> [‡]	Buff-Breasted Sandpiper		Decreasing	IUCN Red List
Vascular Plants [*]	<i>Podocarpus trinitensis</i> Buchh. & Gray			Unknown	IUCN Red List
	<i>Gonolobus tobagensis</i> Urb.				Van den Eynden, Oatham and Johnson, 2008
	<i>Werauhia broadwayi</i> (L.B. Smith) J.R. Grant				Van den Eynden, Oatham and Johnson, 2008
	<i>Aegiphilia obovate</i> Andr.				Van den Eynden, Oatham and Johnson, 2008

* Endemic species

‡ CITES species

ENDEMIC SPECIES OF NE TOBAGO

Category	Taxonomy		IUCN Conservation Status	Source
	Taxa/ Species	Common Name		
Crustacean	<i>Pseudobiffarius caesari</i>	Ghost Shrimp	Unknown	Heard and Manning 2000
Frogs and Toads	<i>Hyalinobatrachium orientale</i>	Eastern Glass Frog	Vulnerable	Government of Trinidad and Tobago
	<i>Mannophryne olmonae</i>	Bloody Bay Poison Frog	Vulnerable	Government of Trinidad and Tobago
	<i>Pristimantis charlottevillensis</i>	Charlotteville Robber Frog	Unknown	Government of Trinidad and Tobago
	<i>Pristimantis turpinorum</i>	Bloody Bay Litter Frog	Vulnerable	Government of Trinidad and Tobago
	<i>Pristimantis urichi</i>	Lesser Antilles Robber Frog	Endangered	Government of Trinidad and Tobago
Marine Fishes	<i>Obilbichthys tobagoensis</i>	Tobago Coral Botula	Unknown	Government of Trinidad and Tobago
	<i>Starksia rava</i>	Tawny Blenny	Unknown	Government of Trinidad and Tobago
	<i>Starksia sella</i>	Darksaddle Blenny	Unknown	Government of Trinidad and Tobago
Snakes	<i>Erythrolamprus ocellatus</i>	Tobago False Coral Snake	Unknown	Government of Trinidad and Tobago
	<i>Leptophis haileyi</i>	Hailey's Parrot Snake	Unknown	Herpetology of Trinidad and Tobago
Terrestrial Bird	<i>Momotus bahamensis</i>	Trinidad Motmot	Unknown	del Hoyo, Collar, Christie, et al. 2014
Vascular Plants	<i>Aegiphilia obovate</i> Andr.		Near Threatened	Van den Eynden, Oatham and Johnson, 2008
	<i>Besleria seitzii</i> Krug & Urb.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Cybianthus pittieri</i> Agostini		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Dicranopygium insulare</i> (Gleas.) Harl.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Duguetia tobagensis</i> (Urb.) R. E. Fr.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Gonolobus tobagensis</i> Urb.		Near Threatened	Van den Eynden, Oatham and Johnson, 2008

Category	Taxonomy		IUCN Conservation Status	Source
	Taxa/ Species	Common Name		
	<i>Justicia tobagensis</i> (Urb.) Wassh.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Maxillaria broadwayi</i> (Cogn) RE Schult.		Critically Endangered	Van den Eynden, Oatham and Johnson, 2008
	<i>Odontonema brevipes</i> Urban		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Phyllanthus acacioides</i> Urb.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Phyllanthus mimicus</i> Webster		Critically Endangered	Van den Eynden, Oatham and Johnson, 2008
	<i>Pilea tobagensis</i> Urb.		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Podocarpus trinitensis</i> Buchh. & Gray		Least Concern	Van den Eynden, Oatham and Johnson, 2008
	<i>Rhynchospora ebracteata</i> (Standl.) H.Pfeiff		Vulnerable	Van den Eynden, Oatham and Johnson, 2008
	<i>Roupala tobagensis</i>		Critically Endangered	Van den Eynden, Oatham and Johnson, 2008
	<i>Werauhia broadwayi</i> (L.B. Smith) J.R. Grant		Near Threatened	Van den Eynden, Oatham and Johnson, 2008
	<i>Xylosma sanctae-annae</i> Sleumer		Endangered	Van den Eynden, Oatham and Johnson, 2008

EDGE SPECIES OF NE TOBAGO

Category	Taxonomy		IUCN Conservation Status	EDGE Rank	Source
	Taxa/ Species	Common Name			
Frogs and Toads	<i>Flectonotus fitzgeraldi</i>	Tree Frog	Endangered	415	www.edgeofexistence.org/amphibians/species_info.php?id=959
	<i>Pristimantis charlottevillensis</i>	Bloody Bay Litter Frog	Unknown	780	www.edgeofexistence.org/amphibians/species_info.php?id=1324
	<i>Pristimantis turpinorum</i>	Lesser Antilles Robber Frog	Vulnerable	788	www.edgeofexistence.org/amphibians/species_info.php?id=1333
Hard Corals	<i>Dendrogyra cylindrus</i>	Pillar Coral	Vulnerable	28	www.edgeofexistence.org/coral_reef/species_info.php?id=1838
	<i>Dichocoenia stokesii</i>	Elliptical Star Coral	Vulnerable	37	www.edgeofexistence.org/coral_reef/species_info.php?id=1853
	<i>Montastraea annularis</i>	Boulder Star Coral	Endangered	8	www.edgeofexistence.org/coral_reef/species_info.php?id=1904
	<i>Montastraea faveolata</i>	Mountainous Star Coral	Endangered	8	www.edgeofexistence.org/coral_reef/species_info.php?id=1905
	<i>Montastraea franksi</i>	Star Coral	Vulnerable	43	www.edgeofexistence.org/coral_reef/species_info.php?id=1894
	<i>Oculina varicosa</i>	Large Ivory Coral	Vulnerable	47	www.edgeofexistence.org/coral_reef/species_info.php?id=1842

MIGRATORY SPECIES IN NE TOBAGO

Category	Taxonomy		IUCN Conservation Status	CMS Listing	Source
	Taxa/ Species	Common Name			
Ducks and Geese	<i>Anas discors</i>	Blue-winged Teal	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11290/legal
Hawks, Kites and Eagles	<i>Buteo platypterus</i>	Broad-Winged Hawk	Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/66158/legal
	<i>Buteogallus urubitinga</i>	Great Black Hawk	Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/66295/legal
Marine Turtles	<i>Chelonia mydas</i>	Green Turtle	Endangered	Appendix I and II	http://speciesplus.net/#/taxon_concepts/12155/legal
	<i>Dermochelys coriacea</i>	Leatherback Turtle	Endangered	Appendix I and II	http://speciesplus.net/#/taxon_concepts/11500/legal
	<i>Eretmochelys imbricata</i>	Hawksbill Turtle	Critically Endangered	Appendix I and II	http://speciesplus.net/#/taxon_concepts/11649/legal
	<i>Lepidochelys olivacea</i>	Olive Ridley Turtle	Vulnerable	Appendix I and II	http://speciesplus.net/#/taxon_concepts/11662/legal
Osprey	<i>Pandion haliaetus</i>	Osprey	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11978/legal
Sandpipers and Allies	<i>Arenaria interpres</i>	Ruddy Turnstone	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11575/legal
	<i>Calidris alba</i>	Sanderling	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11570/legal
	<i>Calidris pusilla</i>	Semipalmated Sandpiper	Near Threatened	Appendix I	http://speciesplus.net/#/taxon_concepts/11296/legal
	<i>Limnodromus griseus</i>	Short-Billed Dowitcher	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11812/legal
	<i>Tringa flavipes</i>	Lesser Yellowlegs	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11963/legal
	<i>Tringa macularia</i>	Spotted Sandpiper	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11730/legal
	<i>Tringa melanoleuca</i>	Greater Yellowlegs	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11627/legal
Seabird	<i>Sterna dougallii</i>	Roseate Tern	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/11550/legal
Sharks and Rays	<i>Manta birostris</i>	Manta Ray	Vulnerable	Appendix I and II	http://speciesplus.net/#/taxon_concepts/11353/legal
Terrestrial Birds	<i>Tryngites subruficollis</i>	Buff-Breasted Sandpiper	Near Threatened	Appendix I and II	http://speciesplus.net/#/taxon_concepts/11406/legal

CITES SPECIES IN NE TOBAGO

Category	Taxonomy		IUCN Conservation Status	CITES Listing	Source
	Taxa/ Species	Common Name			
Hard Corals	<i>Acropora cervicornis</i>	Staghorn Coral	Critically Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/5528/legal
	<i>Acropora palmata</i>	Elkhorn Coral	Critically Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/3118/legal
	<i>Montastraea annularis</i>	Boulder Star Coral	Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/11134/legal
Hawks, Kites and Eagles	<i>Buteo platypterus</i>	Broad-Winged Hawk	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/3174/legal
	<i>Buteogallus urubitinga</i>	Great Black Hawk	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/6413/legal
Mammals	<i>Pecari tajacu</i>	Collared Peccary	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/8246/legal
Marine Turtles	<i>Chelonia mydas</i>	Green Turtle	Endangered	Appendix I	http://speciesplus.net/#/taxon_concepts/11071/legal
	<i>Dermochelys coriacea</i>	Leatherback Turtle	Endangered	Appendix I	http://speciesplus.net/#/taxon_concepts/4062/legal
	<i>Eretmochelys imbricata</i>	Hawksbill Turtle	Critically Endangered	Appendix I	http://speciesplus.net/#/taxon_concepts/7257/legal
	<i>Lepidochelys olivacea</i>	Olive Ridley Turtle	Vulnerable	Appendix I	http://speciesplus.net/#/taxon_concepts/6938/legal
Osprey	<i>Pandion haliaetus</i>	Osprey	Least Concern	Appendix II	http://speciesplus.net/#/taxon_concepts/10360/legal
Sharks and Rays	<i>Manta birostris</i>	Manta Ray	Vulnerable	Appendix II	http://speciesplus.net/#/taxon_concepts/11277/legal
	<i>Sphyrna lewini</i>	Scalloped Hammerhead Shark	Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/6544/legal
	<i>Sphyrna mokarran</i>	Squat-Headed Hammerhead Shark	Endangered	Appendix II	http://speciesplus.net/#/taxon_concepts/9171/legal
Terrestrial Birds	<i>Campylopterus ensipennis</i>	White-Tailed Sabrewing Hummingbird	Near Threatened	Appendix II	http://speciesplus.net/#/taxon_concepts/3652/legal
	<i>Carduelis cucullata</i>	Red Siskin	Endangered	Appendix I	http://speciesplus.net/#/taxon_concepts/7062/legal

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