



Mexican Porcupine (*Coendou mexicanus*)



Vesper Rat (*Nyctomys sumichrasti*)

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Costa Rica

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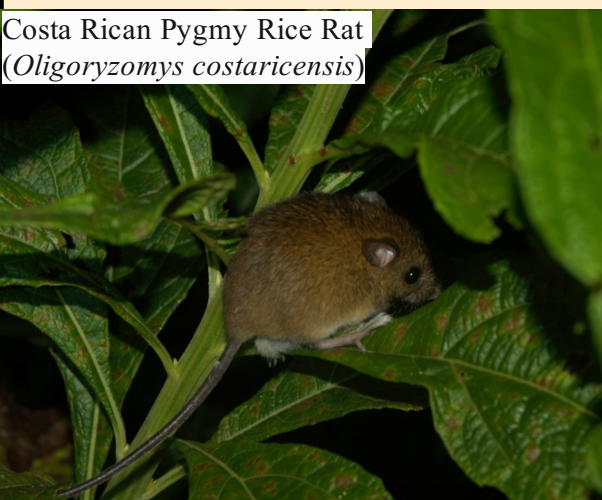
Big-eared Climbing Rat (*Ototylomys phyllotis*)



Naked-footed Deer Mouse (*Peromyscus nudipes*)



The Team (*Homo sapiens*) hard at work



Costa Rican Pygmy Rice Rat (*Oligoryzomys costaricensis*)



Lowland Paca (*Cuniculus paca*)



Watson's Climbing Rat (*Tylomys watsoni*)

Quick intro

I have been pushing off publishing this thing for a while and as I don't have the time to write a day by day report I'm just gonna put a couple of notes here and leave it at that.

Basically I just contacted **Vino de Backer** (vino.monteverde@gmail.com / **WhatsApp +506 8502 7056**), told him to give me a better tour than Alex Meyer and Venkat Senkar (https://www.mammalwatching.com/wp-content/uploads/CR_TR_AMVS_Mar22-compressed.pdf) and left all the planning to him.^^

We saw 101 mammal species on this trip.

On a usual night I would go out spotlighting while Vino and the others netted at the same time and then look at the bats when returning to camp. Some evenings there was no netting because of weather or prior commitments on Vino's side. Daytime was usually used for travel between sites. We did almost no small mammal trapping (only the first two or three days while Jim was with us) and I only spend two mornings looking for birds. All other sightings of birds and herps were incidental.

All bat sightings were either in hand or good views of perched individuals (no counting of fluttery shapes in the sky).

For the bats I mostly only recorded the first sighting as with netting, spotlighting, listing etc. it would have been too much work to keep track of the common species. Vino has detailed lists of course.

For all other mammals all sightings are recorded below.

Biggest miss was not finding any disc-winged bats (maybe a timing issue as we didn't see a lot of suitable rolled-up leaves).

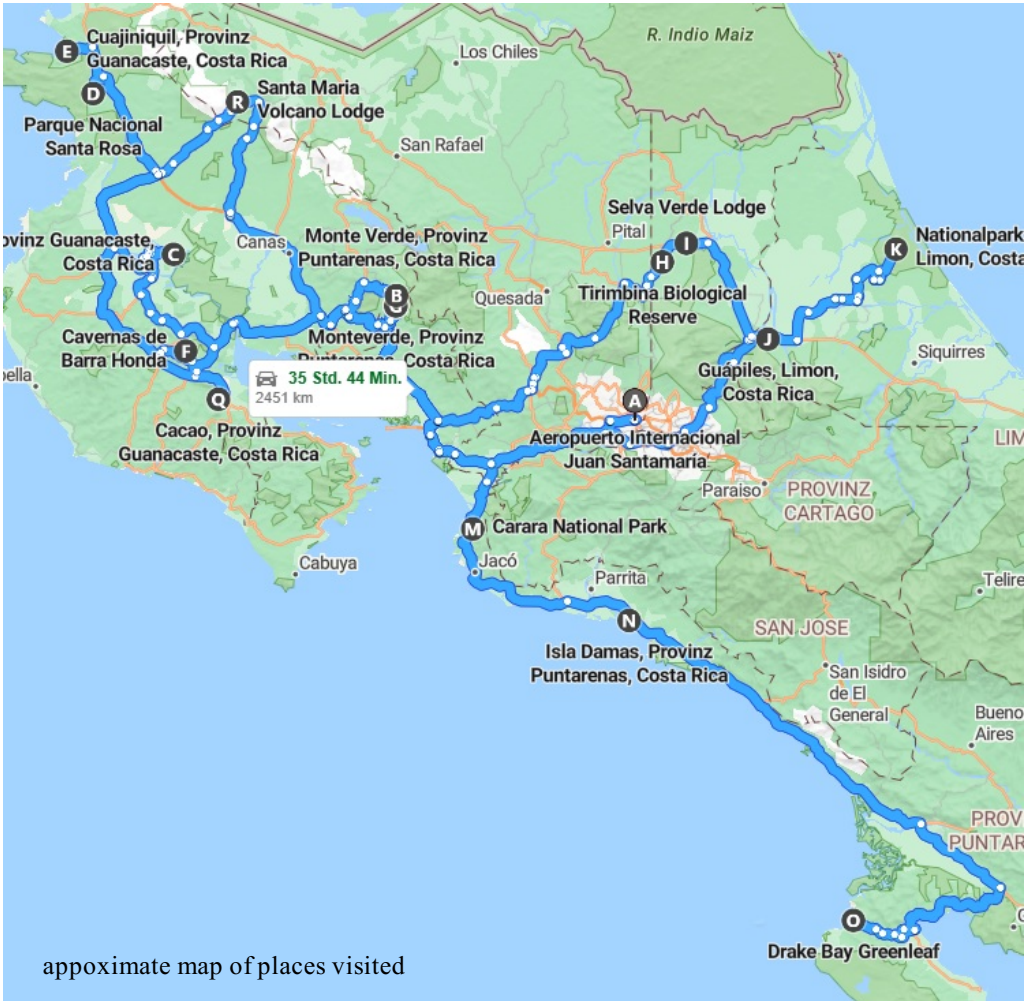
Thanks go to:

Vino, Jim, Eduardo, Dave, Emmanuel (Tirimbina), Cope (Cope's Place), Henry Lara (La Selva), Milenlli (mangrove tour)

Itinerary

Day 1	Monteverde	Vino's & Jim's places
	(Guanacaste)	road to beach (mist-netting, spotlighting)
	Playa Naranjo	spotlighting
Day 2	Playa Naranjo	ranger station
	La Cruz	
	Cuajiniquil	river on private property, mist-netting, spotlighting
Day 3	Cuajiniquil	
	Camas Dulces	bridges
	Barra Honda	mist-netting, spotlighting
Day 4	Barra Honda	
	Monteverde	spotlighting
Day 5	Monteverde	Banjo del Tigre, Crandell reserve, Curi Cancha (spotlighting), Jim's place (spotlighting)
Day 6	Monteverde	
	Tirimbina	mist-netting, spotlighting
Day 7	Tirimbina	mist-netting
	Selva Verde	
Day 8	Tirimbina	
	Cope's place	
	Tortuguero	Cano Palma Camp, mist-netting
Day 9	Tortuguero	Cano Palma camp, town (heavy rains)
Day 10	Monte Verde	Crandell Reserve, mist-netting, spotlighting
Day 11	Monte Verde	Bat Jungle
	Miraflores	
	Carara NP	
	Damas Caves	mist-netting

Day 12	Damas Caves	
	Isla Damas mangroves	boat with Milentours
Day 13	Drake Bay	pelagic
	Monte Verde	Crandell reserve, spotlighting
Day 14	Guanacaste	Cuajiniquil creek, mist-netting, spotlighting
Day 15	Guanacaste	
	Cacao	Santa Rosa river, mist-netting, spotlighting
Day 16	Rincon de la Viecha	Colonia Blanca, mist-netting, spotlighting
Day 17	Monte Verde	



Didelphimorphia		
Didelphidae		
01.	Common Opossum (<i>Didelphis marsupialis</i>)	Guanacaste (Cuajiniquil (pp), Cuajiniquil creek), Monte Verde
02.	Central American Woolly Opossum (<i>Caluromys derbianus</i>)	Monte Verde, Tirimbina
03.	Alston's Mouse Opossum (<i>Marmosa alstoni</i>)	Guanacaste (Barra Honda), Monte Verde
04.	Mexican Mouse Opossum (<i>Marmosa mexicana</i>)	Guanacaste (Barra Honda)
Pilosa		
Cyclopedidae		
05.	Central American Silky Anteater (<i>Cyclopes dorsalis</i>)	Isla Damas mangroves, Guanacaste (Rincon de la Vieja)
Bradypodidae		
06.	Brown-throated Three-toed Sloth (<i>Bradypus variegatus</i>)	Tortuguero (Cano Palma camp), Guanacaste (Rincon de la Vieja)
Megalonychidae		
07.	Hoffmann's Two-toed Sloth (<i>Choloepus hoffmanni</i>)	Monte Verde (Curi Cancha), Tirimbina, Guanacaste (Rincon de la Vieja)
Cingulata		
Dasypodidae		
08.	Andean Nine-banded Armadillo (<i>Dasypus [novemcinctus] fenestratus</i>)	Monte Verde (Jim's place, Crandell reserve), Tirimbina
Primates		
Cebidae		
09.	Red-backed Squirrel Monkey (<i>Saimiri oerstedii</i>)	road to Damas Caves
10.	Central American White-faced Capuchin (<i>Cebus imitator</i>)	Monte Verde (Banjo del Tigre), Tortuguero (Cano Palma camp), Guanacaste (around ranger station)
Atelidae		
11.	Mantled Howler (<i>Alouatta palliata</i>)	Monte Verde, Guanacaste (Barra Honda), Tirimbina, Tortuguero (Cano Palma camp)
12.	Central American Spider Monkey (<i>Ateles geoffroyi</i>)	Tortuguero (Cano Palma camp), Guanacaste (Santa Rosa river)
Lagomorpha		
Leporidae		
13.	Costa Rican Forest Rabbit (<i>Sylvilagus gabbi</i>)	Guanacaste (Santa Rosa river)
14.	Eastern Cottontail (<i>Sylvilagus floridanus</i>)	Guanacaste (Playa Naranjo)

	Rodentia	
	Sciuridae	
15.	Alfaro's Pygmy Squirrel (<i>Microsciurus alfari</i>)	Tirimbina
16.	Red-tailed Squirrel (<i>Syntheosciurus granatensis</i>)	Monte Verde (Jim's place)
17.	Variegated Squirrel (<i>Echinosciurus variegatoides dorsalis</i>) Variegated Squirrel (<i>Echinosciurus variegatoides thomasi</i>)	Guanacaste (Playa Naranjo, Barra Honda), Monte Verde Tirimbina
	Heteromyidae	
18.	Salvin's Spiny Pocket Mouse (<i>Heteromys salvini</i>)	Guanacaste (road to Playa Naranjo, Cuajiniquil creek)
	Cricetidae	
19.	Coues' Rice Rat (<i>Oryzomys couesi</i>)	Guanacaste (Barra Honda)
20.	Vesper Rat (<i>Nyctomys sumichrasti</i>)	Monte Verde, Tirimbina
21.	Watson's Climbing Rat (<i>Tylomys watsoni</i>)	Monte Verde (Curi Cancha, Crandell reserve)
22.	Big-eared Climbing Rat (<i>Ototylomys phyllotis</i>)	Guanacaste (road to Playa Naranjo, Cuajiniquil creek)
23.	Costa Rican Pygmy Rice Rat (<i>Oligoryzomys costaricensis</i>)	Guanacaste (Rincon de la Vieja)
24.	Naked-footed Deer Mouse (<i>Peromyscus nudipes</i>)	Monte Verde (Jim's place)
	Erethizontidae	
25.	Mexican Porcupine (<i>Coendou mexicanus</i>)	Monte Verde (Curi Cancha), Tirimbina
	Dasyproctidae	
26.	Central American Agouti (<i>Dasyprocta punctata</i>)	Monte Verde (Vino's place, Banjo del Tigre), Guanacaste (Playa Naranjo, around ranger station)
	Cuniculidae	
27.	Lowland Paca (<i>Cuniculus paca</i>)	Monte Verde (Jim's place)
	Echimyidae	
28.	Tomes' Spiny Rat (<i>Proechimys semispinosus</i>)	Tirimbina (island in the middle of bridge)

• Chiroptera (see below)		
Carnivora		
Procyonidae		
29.	Northern Raccoon (<i>Procyon lotor</i>)	Monte Verde
30.	Crab-eating Raccoon (<i>Procyon cancrivorus</i>)	Isla Damas mangroves
31.	White-nosed Coati (<i>Nasua narica</i>)	roads from Monte Verde to Tirimbina & from Drake Bay to Monte Verde, Monte Verde
32.	Bushy-tailed Olingo (<i>Bassaricyon gabbii</i>)	Monte Verde (Jim's place)
33.	Kinkajou (<i>Potos flavus</i>)	Tirimbina
Perissodactyla		
Tapiridae		
34.	Baird's Tapir (<i>Tapirus bairdii</i>)	Guanacaste (road to Playa Naranjo, Cuajiniquil creek)
Certartiodactyla		
Cervidae		
35.	White-tailed Deer (<i>Odocoileus virginianus</i>)	Guanacaste (around ranger station, Playa Naranjo, Cuajiniquil creek)
Delphinidae		
36.	Pantropical Spotted Dolphin (<i>Stenella attenuate</i>)	Drake Bay pelagic
Balaenopteridae		
37.	Humpback Whale (<i>Megaptera novaeangliae</i>)	Drake Bay pelagic



Mexican Mouse Opossum (*Marmosa mexicana*)



Nine-banded Armadillo (*Dasypus novemcinctus*)



Brown-throated Three-toed Sloth (*Bradypus variegatus*)



Central American White-faced Capuchin (*Cebus imitator*)



Central American Silky Anteater (*Cyclopes dorsalis*)



Baird's Tapir (*Tapirus bairdii*)

• Chiroptera		
Emballonuridae		
38.	Northern Ghost Bat (<i>Diclidurus albus</i>)	Carara NP
39.	Shaggy Bat (<i>Centronycteris centralis</i>)	Tirimbina
40.	Gray Sac-winged Bat (<i>Balantiopteryx plicata</i>)	Camas Dulces (bridges)
41.	Greater White-lined Bat (<i>Saccopteryx bilineata</i>)	Camas Dulces (bridges), Tirimbina
42.	Lesser White-lined Bat (<i>Saccopteryx leptura</i>)	Camas Dulces (bridges), Tirimbina
43.	Proboscis Bat (<i>Rhynchonycteris naso</i>)	Camas Dulces (bridges)
44.	Chestnut Sac-winged Bat (<i>Cormura brevirostris</i>)	Tirimbina
45.	Lesser Doglike Bat (<i>Peropteryx macrotis</i>)	Damas Caves
46.	Greater Doglike Bat (<i>Peropteryx kappleri</i>)	Tirimbina
Noctilionidae		
47.	Greater Fishing Bat (<i>Noctilio leporinus</i>)	Guanacaste (road to Playa Naranjo), Cuajiniquil (pp)
48.	Lesser Fishing Bat (<i>Noctilio albiventris</i>)	Guanacaste (Cuajiniquil (pp))
Mormoopidae		
49.	Davy's Naked-backed Bat (<i>Pteronotus davyi</i>)	Guanacaste (Barra Honda)
50.	Big Naked-backed Bat (<i>Pteronotus gymnonotus</i>)	Guanacaste (Barra Honda)
51.	Lesser Mustached Bat (<i>Pteronotus personatus</i>)	Guanacaste (road to Playa Naranjo)
52.	Mesoamerican Mustached Bat (<i>Pteronotus mesoamericanus</i>)	Damas Caves
Phyllostomidae		
53.	Northern Big-eared Bat (<i>Micronycteris tresamici</i>)	Guanacaste (Barra Honda)
54.	Schmidt's Big-eared Bat (<i>Micronycteris schmidtorum</i>)	Guanacaste (Rincon de la Vieja)
55.	Common Big-eared Bat (<i>Micronycteris microtis</i>)	Tirimbina
56.	Pygmy Round-eared Bat (<i>Lophostoma brasiliense</i>)	Cope's place
57.	Common Sword-nosed Bat (<i>Lonchorhina aurita</i>)	Guanacaste (Rincon de la Vieja)
58.	Tricolored Bat (<i>Glyphonhycteris sylvestris</i>)	Guanacaste (Santa Rosa river)



Northern Ghost Bat (*Diclidurus alba*)



Proboscis Bat (*Rhynchonycteris naso*)



Lesser Fishung Bat (*Noctilio albiventris*)



Big Naked-backed Bat
(*Pteronotus gymnonotus*)



Schmidt's Big-eared Bat
(*Micronycteris schmidtorum*)



Pygmy Round-eared Bat
(*Lophostoma brasiliense*)



Common Sword-nosed Bat
(*Lonchorhina aurita*)



Tricolored Bat (*Glyphonycteris sylvestris*)

59.	Fringe-lipped Bat (<i>Trachops cirrhosus</i>)	Miraflores, Guanacaste (Santa Rosa river)
60.	Pale Spear-nosed Bat (<i>Phyllostomus discolor</i>)	Guanacaste (road to Playa Naranjo)
61.	Greater Spear-nosed Bat (<i>Phyllostomus hastatus</i>)	Guanacaste (road to Playa Naranjo)
62.	Common Long-tongued Bat (<i>Glossophaga soricina</i>)	Guanacaste (road to Playa Naranjo)
63.	Gray's Long-tongued Bat (<i>Glossophaga leachii</i>)	Guanacaste (Santa Rosa river)
64.	Brown Long-tongued Bat (<i>Glossophaga commissarisi</i>)	Monte Verde (Jim's place)
65.	Orange Nectar Bat (<i>Lonchophylla robusta</i>)	Damas Caves
66.	Underwood's Long-tongued Bat (<i>Hylonycteris underwoodi</i>)	Tirimbina
67.	Godman's Whiskered Bat (<i>Choeroniscus godmani</i>)	Guanacaste (road to Playa Naranjo)
68.	Chestnut Short-tailed Bat (<i>Carollia castanea</i>)	Tirimbina
69.	Seba's Short-tailed Bat (<i>Carollia perspicillata</i>)	Guanacaste (road to Playa Naranjo)
70.	Sowell's Short-tailed Bat (<i>Carollia sowelli</i>)	Tortuguero (Cano Palma camp)
71.	Gray's Short-tailed Bat (<i>Carollia subrufa</i>)	Guanacaste (road to Playa Naranjo)
72.	Greater Stripe-faced Bat (<i>Vampyroides major</i>)	Guanacaste (Rincon de la Vieja)
73.	Greater Broad-nosed Bat (<i>Platyrrhinus vittatus</i>)	Monte Verde (Crandell reserve)
74.	Great Fruit-eating Bat (<i>Artibeus lituratus</i>)	Camas Dulces (bridges), Tirimbina
75.	Honduran Fruit-eating Bat (<i>Artibeus inopinatus</i>)	Guanacaste (road to Playa Naranjo)
76.	Intermediate Fruit-eating Bat (<i>Artibeus intermedius</i>)	Miraflores
77.	Jamaican Fruit-eating Bat (<i>Artibeus jamaicensis</i>)	Guanacaste (road to Playa Naranjo)
78.	Hairy Big-eyed Bat (<i>Chiroderma villosum</i>)	Tirimbina
79.	Mesoamerican Tent-making Bat (<i>Uroderma convexum</i>)	Guanacaste (Barra Honda), Tirimbina
80.	Heller's Broad-nosed Bat (<i>Platyrrhinus helleri</i>)	Guanacaste (road to Playa Naranjo)
81.	Honduran White Bat (<i>Ectophylla alba</i>)	Tirimbina, Cope's place



Brown Long-tongued Bat
(*Glossophaga commissarisi*)



Greater Stripe-faced Bat (*Vampyroides major*)



Honduran Fruit-eating Bat
(*Artibeus inopinatus*)

Hairy Big-eyed Bat (*Chiroderma villosum*)



Honduran White Bat (*Ectophylla alba*)

82.	MacConnell's Bat (<i>Mesophylla macconnelli</i>)	Tirimbina
83.	Striped Yellow-eared Bat (<i>Vampyriscus nymphaea</i>)	Tirimbina
84.	Little Yellow-eared Bat (<i>Vampyressa thylene</i>)	Tirimbina, Guanacaste (Rincon de la Vieja)
85.	Pygmy Fruit-eating Bat (<i>Dermanura phaeotis</i>)	Guanacaste (road to Playa Naranjo)
86.	Thomas' Fruit-eating Bat (<i>Dermanura watsoni</i>)	Guanacaste (Cuajiniquil (pp))
87.	Toltec Fruit-eating Bat (<i>Dermanura tolteca</i>)	Monte Verde (Crandell reserve)
88.	Northern Yellow-shouldered Bat (<i>Sturnira parvidens</i>)	Guanacaste (road to Playa Naranjo)
89.	Common Vampire Bat (<i>Desmodus rotundus</i>)	Guanacaste (road to Playa Naranjo)
Natalidae		
90.	Mexican Funnel-eared Bat (<i>Natalus mexicanus</i>)	Damas Caves
Furipteridae		
91.	Thumbless Bat (<i>Furipterus horrens</i>)	Selva Verde
Vespertilionidae		
92.	Thomas' Yellow Bat (<i>Rhogeessa io</i>)	Tirimbina
93.	Southern Yellow Bat (<i>Dasypterus ega</i>)	Guanacaste (Cuajiniquil (pp))
94.	Riparian Myotis (<i>Myotis riparius</i>)	Tirimbina
95.	Black Myotis (<i>Myotis nigricans</i>)	Tirimbina
96.	Hairy-legged Myotis (<i>Myotis pilosatibialis</i>)	Monte Verde (Crandell reserve)
97.	Argentine Brown Bat (<i>Eptesicus furinalis</i>)	Guanacaste (Santa Rosa river)
Molossidae		
98.	Miller's Mastiff Bat (<i>Molossus pretiosus</i>)	Guanacaste (Cuajiniquil (pp))
99.	Little Mastiff Bat (<i>Molossus molossus</i>)	Guanacaste (Cuajiniquil (pp))
100.	Greenhall's Dog-faced Bat (<i>Cynomops greenhalli</i>)	Tirimbina
101.	Underwood's Bonneted Bat (<i>Eumops underwoodi</i>)	Guanacaste (Cuajiniquil (pp))



MacConnell's Bat
(*Mesophylla macconnelli*)



Little Yellow-eared Bat (*Vampyressa
thyone*)



Thumbless Bat
(*Furipterus horrens*)



Thomas' Yellow Bat (*Rhogeessa io*)



Argentine Brown Bat
(*Eptesicus furinalis*)



Miller's Mastiff Bat (*Molossus pretiosus*)



Greenhall's Dog-faced Bat
(*Cynomops greenhalli*)

Struthioniformes	
Tinamidae	
	Highland Tinamou (<i>Nothocercus bonapartei</i>)
Galliformes	
Cracidae	
	Gray-headed Chachalaca (<i>Ortalis cinereiceps</i>)
	Crested Guan (<i>Penelope purpurascens</i>)
	Great Curassow (<i>Crax rubra</i>)
Eurypygiformes	
Eurypygidae	
	Northern Sunbittern (<i>Eurypyga [helias] major</i>)
Columbiformes	
Columbidae	
	White-winged Dove (<i>Zenaida asiatica</i>)
	Pale-vented Pigeon (<i>Patagioenas cayennensis</i>)
	Blue Ground-dove (<i>Claravis pretiosa</i>)
	Inca Dove (<i>Columbina inca</i>)
	Ruddy Ground-dove (<i>Columbina talpacoti</i>)
	Verreaux's [White-tipped] Dove (<i>Leptotila verreauxi</i>)
	Ruddy Quail-dove (<i>Geotrygon montana</i>)
Caprimulgiformes	
Caprimulgidae	
	Common Pauraque (<i>Nyctidromus albicollis</i>)

Trochilidae	
	Stripe-throated Hermit (<i>Phaethornis striigularis</i>)
	Long-billed Hermit (<i>Phaethornis longirostris</i>)
	Long-billed Starthroat (<i>Heliomaster longirostris</i>)
	White-necked Jacobin (<i>Florisuga mellivora</i>)
	Lesser Violet-ear (<i>Colibri cyanotus</i>)
	Violet Sabrewing (<i>Campylopterus hemileucurus</i>)
	Coppery-headed Emerald (<i>Elvira cupreiceps</i>)
	Stripe-tailed Hummingbird (<i>Eupherusa eximia</i>)
	Salvin's [Canivet's] Emerald (<i>Cynanthus (Chlorostilbon) [canivettii] salvini</i>)
	Rufous-tailed Hummingbird (<i>Amazilia tzacatl</i>)
Cuculiformes	
Cuculidae	
	Groove-billed Ani (<i>Crotophaga sulcirostris</i>)
Gruiformes	
Rallidae	
	Russet-naped [Gray-necked] Wood-rail (<i>Aramides [cajaneus] albiventris</i>)
Procellariiformes	
Procellariidae	
	Pink-footed Shearwater (<i>Ardenna creatopus</i>)
	Sooty Shearwater (<i>Ardenna grisea</i>)
	Galapagos Shearwater (<i>Puffinus subalaris</i>)
Hydrobatidae	
	Black Storm-petrel (<i>Halocyptena (Hydrobates) melania</i>)
	Peruvian [Wedge-rumped] Storm-petrel (<i>Halocyptena [Hydrobates] [tethys] kelsalli</i>)

Pelecaniformes	
Threskiornithidae	
	White Ibis (<i>Eudocimus albus</i>)
Pelecanidae	
	Brown Pelican (<i>Pelecanus occidentalis</i>)
Ardeidae	
	Green Heron (<i>Butorides virescens</i>)
	Bare-throated Tiger-heron (<i>Tigrisoma mexicanum</i>)
	Fasciated Tiger-heron (<i>Tigrisoma fasciatum</i>)
Suliformes	
Fregatide	
	Magnificent Frigatebird (<i>Fregata magnificens</i>)
Sulidae	
	Brewster's Brown Booby (<i>Sula [leucogaster] brewsteri</i>)
	Blue-footed Booby (<i>Sula nebouxii</i>)
Phalacrocoracidae	
	Neotropic Cormorant (<i>Phalacrocorax brasilianus</i>)
Anhingidae	
	Anhinga (<i>Anhinga anhinga</i>)
Charadriiformes	
Scolopacidae	
	Whimbrel (<i>Numenius phaeopus</i>)
	Western Willet (<i>Tringa [semipalmata] inornata</i>)
Laridae	
	Western Bridled Tern (<i>Onychoprion [anaethetus] melanopterus</i>)
	Common Brown Noddy (<i>Anous stolidus</i>)

Jacanidae	
	Northern Jacana (<i>Jacana spinosa</i>)
Strigiformes	
Strigidae	
	Northern Mottled Owl (<i>Strix virgata</i>)
	Tropical Screech-owl (<i>Megascops choliba</i>)
	Ferruginous Pygmy-owl (<i>Glaucidium brasilianum</i>)
Accipitriformes	
Pandionidae	
	(Western) Osprey (<i>Pandion haliaetus</i>)
Accipitridae	
	Roadside Hawk (<i>Rupornis magnirostris</i>)
	Common Black Hawk (<i>Buteogallus anthracinus</i>)
	Semiplumbeous Hawk (<i>Leucopternis semiplumbeus</i>)
	Swallow-tailed Kite (<i>Elanoides forficatus</i>)
	Yellow-headed Caracara (<i>Milvago chimachima</i>)
	Crested Caracara (<i>Caracara plancus</i>)
Trogoniformes	
Trogonidae	
	Black-headed Trogon (<i>Trogon melanocephalus</i>)
	Northern Black-throated Trogon (<i>Trogon [rufus] tenellus</i>)
Coraciiformes	
Alcedinidae	
	Tropical Ringed Kingfisher (<i>Megaceryle torquata</i>)

	Green Kingfisher (<i>Chloroceryle americana</i>)
	American Pygmy-kingfisher (<i>Chloroceryle aenea</i>)
Momotidae	
	Turquoise-browed Motmot (<i>Eumomota superciliosa</i>)
	Lesson's [Blue-crowned] Motmot (<i>Momotus [momota] lessonii</i>)
	Broad-billed Motmot (<i>Electron platyrhynchum</i>)
	Rufous Motmot (<i>Baryphthengus martii</i>)
Piciformes	
Galbulidae	
	Rufous-tailed Jacamar (<i>Galbula ruficauda</i>)
Bucconidae	
	White-whiskered Puffbird (<i>Malacoptila panamensis</i>)
	White-fronted Nunbird (<i>Monasa morphoeus</i>)
Ramphastidae	
	Blue-throated [Emerald] Toucanet (<i>Aulacorhynchus [prasinus] caeruleogularis</i>)
	Collared Aracari (<i>Pteroglossus torquatus</i>)
	Keel-billed Toucan (<i>Ramphastos sulfuratus</i>)
	Yellow-throated (Chestnut-mandibled) Toucan (<i>Ramphastos ambiguus</i>)
Picidae	
	Hoffmann's Woodpecker (<i>Centurus [Melanerpes] hoffmannii</i>)
	Black-cheeked Woodpecker (<i>Centurus [Melanerpes] pucherani</i>)
	Chestnut-coloured Woodpecker (<i>Celeus castaneus</i>)
	Lineated Woodpecker (<i>Dryocopus lineatus</i>)
	Pale-billed Woodpecker (<i>Campephilus guatemalensis</i>)

Psittaciformes	
Psittacidae	
	Orange-chinned Parakeet (<i>Brotogeris jugularis</i>)
	Orange-fronted Parakeet (<i>Eupsittula canicularis</i>)
	Scarlet Macaw (<i>Ara macao</i>)
	Great Green Macaw (<i>Ara ambiguus</i>)
	Brown-hooded Parrot (<i>Pyrilia haematotis</i>)
	White-crowned Parrot (<i>Pionus senilis</i>)
	Yellow-naped Amazon (<i>Amazona albifrons</i>)
	Red-lored Amazon (<i>Amazona autumnalis</i>)
Passeriformes	
Hirundinidae	
	Northern Rough-winged Swallow (<i>Stelgidopteryx serripennis</i>)
	Blue-and-white Swallow (<i>Pygochelidon cyanoleuca</i>)
	Mangrove Swallow (<i>Tachycineta albilinea</i>)
	Bank Swallow (<i>Riparia riparia</i>)
Corvidae	
	White-throated Magpie-jay (<i>Calocitta formosa</i>)
	Brown Jay (<i>Psilorhinus morio</i>)
Thamnophilidae	
	Barred Antshrike (<i>Thamnophilus doliatus</i>)
	Slaty Antwren (<i>Myrmotherula schisticolor</i>)
	Chestnut-backed Antbird (<i>Poliocrania (Myrmeciza) exsul</i>)
Grallariidae	
	Scaled Antpitta (<i>Grallaria guatimalensis</i>)

Furnariidae	
	Northern Wedge-billed Woodcreeper (<i>Glyphorynchus [spirurus] pectoralis</i>)
	Grayish [Olivaceous] Woodcreeper (<i>Sittasomus [griseicapillus] griseus</i>)
	Northern Barred Woodcreeper (<i>Dendrocolaptes sanctithomae</i>)
	Cocoa [Buff-throated] Woodcreeper (<i>Xiphorhynchus susurrans</i>)
	Streak-headed Woodcreeper (<i>Lepidocolaptes souleyetii</i>)
Cotingidae	
	Three-wattled Bellbird (<i>Procnias tricarunculatus</i>)
Tityridae	
	Black-crowned Tityra (<i>Tityra inquisitor</i>)
	Masked Tityra (<i>Tityra semifasciata</i>)
Pipridae	
	Long-tailed Manakin (<i>Chiroxiphia linearis</i>)
	White-collared Manakin (<i>Manacus candei</i>)
Tyrannidae	
	Northern Ochre-bellied Flycatcher (<i>Mionectes [oleagineus] assimilis</i>)
	Black-headed Tody-flycatcher (<i>Todirostrum nigriceps</i>)
	Common Tody-flycatcher (<i>Todirostrum cinereum</i>)
	Mistletoe [Paltry] Tyrannulet (<i>Zimmerius [vilissimus] parvus</i>)
	Eye-ringed Flatbill (<i>Rhynchocyclus brevirostris</i>)
	Sclater's [Yellow-olive] Flatbill (<i>Tolmomyias [sulphurescens] cinereiceps</i>)
	Black Phoebe (<i>Sayornis nigricans</i>)
	Great Kiskadee (<i>Pitangus sulphuratus</i>)
	Broad-billed Flycatcher (<i>Megarynchus pitangua</i>)
	Northern Social Flycatcher (<i>Myiozetetes [similis] texensis</i>)

	Sulphur-bellied Flycatcher (<i>Myiodynastes luteiventris</i>)
	Brown-crested Flycatcher (<i>Myiarchus tyrannulus</i>)
	Middle American [Tropical] Kingbird (<i>Tyrannus [melancholicus] satrapa</i>)
Mimidae	
	Vieillot's [Tropical] Mockingbird (<i>Mimus gilvus</i>)
Turdidae	
	Clay-coloured Thrush (<i>Turdus grayi</i>)
	Slaty-backed Nightingale-thrush (<i>Catharus fuscater</i>)
	Orange-billed Nightingale Thrush (<i>Catharus aurantirostris</i>)
Troglodytidae	
	Rufous-backed [Rufous-naped] Wren (<i>Campylorhynchus [zonatus] costaricensis</i>)
	Banded Wren (<i>Thryophilus pleurostictus</i>)
	Rufous-and-white Wren (<i>Thryophilus rufalbus</i>)
	Cabanis's Wren (<i>Cantorchilus modestus modestus</i>)
	Bay Wren (<i>Cantorchilus nigricapillus</i>)
	House Wren (<i>Troglodytes aedon</i>)
Poliophtilidae	
	Central American [White-lored] Gnatcatcher (<i>Poliophtila albiloris</i>)
Vireonidae	
	Lesser Greenlet (<i>Pachysylvia decurtata</i>)
	Yellow-green Vireo (<i>Vireo flavoviridis</i>)
Parulidae	
	Mangrove [Yellow] Warbler (<i>Setophaga petechia</i>)
	Chestnut-capped [Rufous-capped] Warbler (<i>Basileuterus delatirii</i>)

	Stripe-crowned [Golden-crowned] Warbler (<i>Basileuterus culicivorus</i>)
	Slate-throated Whitestart (<i>Myioborus miniatus</i>)
Passerellidae	
	Orange-billed Sparrow (<i>Arremon aurantirostris</i>)
	Olive Sparrow (<i>Arremonops rufivirgatus</i>)
	White-eared Ground-sparrow (<i>Melospiza leucotis</i>)
	Rufous-collared Sparrow (<i>Zonotrichia capensis</i>)
Fringillidae	
	Olive-backed Euphonia (<i>Euphonia gouldi</i>)
	Yellow-throated Euphonia (<i>Euphonia hirundinacea</i>)
	Yellow-crowned Euphonia (<i>Euphonia luteicapilla</i>)
	Scrub Euphonia (<i>Euphonia affinis</i>)
Cardinalidae	
	Southern Black-faced Grosbeak (<i>Caryothraustes [poliogaster] scapularis</i>)
	Red-throated Ant-tanager (<i>Habia fuscicauda</i>)
Thraupidae	
	Hick's [Variable] Seedeater (<i>Sporophila [corvina] ophthalmica</i>)
	Yellow-faced Grassquit (<i>Tiaris olivaceus</i>)
	Blue-black Grassquit (<i>Volatinia jacarina</i>)
	Black-headed Saltator (<i>Saltator atriceps</i>)
	Buff-throated Saltator (<i>Saltator maximus</i>)
	Red-legged Honeycreeper (<i>Cyanerpes cyaneus</i>)
	Common Bananaquit (<i>Coereba [flaveola] luteola</i>)
	Blue-gray Tanager (<i>Tangara (Thraupis) episcopus</i>)
	Palm Tanager (<i>Tangara (Thraupis) palmarum</i>)
	Crimson-collared Tanager (<i>Ramphocelus sanguinolentus</i>)
	Scarlet-rumped Tanager (<i>Ramphocelus passerinii</i>)

	Golden-hooded Tanager (<i>Tangara (Stilpnia) larvata</i>)
	Gray-headed Tanager (<i>Eucometis penicillata</i>)
Icteridae	
	Streak-backed Oriole (<i>Icterus pustulatus</i>)
	Chestnut-headed Oropendola (<i>Psarocolius wagleri</i>)
	Montezuma Oropendola (<i>Psarocolius montezuma</i>)
	Melodious Blackbird (<i>Dives dives</i>)
	Great-tailed Grackle (<i>Quiscalus mexicanus</i>)
	Bronzed Cowbird (<i>Molothrus aeneus</i>)



Sooty Shearwater (*Ardenna grisea*)



Galapagos Shearwater (*Puffinus subalaris*)



Highland Tinamou (*Nothocercus bonapartei*)



Rufous-tailed Hummingbird
(*Amazilia tzacatl*)



Keel-billed Toucan
(*Ramphastos sulfuratus*)



Cocoa
[Buff-throated]
Woodcreeper
(*Xiphorhynchus susurrans*)



Scaled Antpitta (*Grallaria guatemalensis*)



Great Curassow (*Crax rubra*)



Northern Black-throated Trogon
(*Trogon [rufus] tenellus*)



Northern Sunbittern
(*Eurypyga [helias] major*)



Black-headed Saltator (*Saltator atriceps*)



Ruddy Quail-dove (*Geotrygon montana*)

Testudines	
Geoemydidae	
01.	Black River Turtle (<i>Rhinoclemmys funerea</i>)
Cheloniidae	
02.	Olive Ridley Sea Turtle (<i>Lepidochelys olivacea</i>)
Squamata	
Corytophanidae	
03.	Common Basilisk (<i>Basiliscus basiliscus</i>)
04.	Plumed Basilisk (<i>Basiliscus plumifrons</i>)
05.	Helmeted Basilisk (<i>Corytophanes cristatus</i>)
Dactyloidae	
06.	Stream Anole (<i>Anolis oxylophus</i>)
Iguanidae	
07.	Black Spiny-tailed Iguana (<i>Ctenosaura similis</i>)
08.	Green Iguana (<i>Iguana iguana</i>)
Phrynosomatidae	
09.	Rose-bellied Spiny Lizard (<i>Sceloporus variabilis</i>)
Sphaerodactylidae	
10.	White-throated Clawed Gecko (<i>Gonatodes albogularis</i>)
Teiidae	
11.	Central American Whiptail (<i>Holcosus festivus</i>)
Xantusiidae	
12.	Yellow-spotted Tropical Night Lizard (<i>Lepidophyma flavimaculatum</i>)

Colubridae	
13.	Cope's Black-striped Snake (<i>Coniophanes piceivittis</i>)
14.	Common Cat-eyed Snake (<i>Leptodeira rhombifera</i>)
15.	Cloudy Snail-eating Snake (<i>Sibon nebulatus</i>)
16.	Tiger Rat Snake (<i>Spilotes pullatus</i>)
Viperidae	
17.	Central American Rattlesnake (<i>Crotalus simus</i>)
Crocodilia	
Alligatoridae	
18.	Spectacled Caiman (<i>Caiman crocodilus</i>)
19.	American Crocodile (<i>Crocodylus acutus</i>)



Black River Turtle (*Rhinoclemmys funerea*)



Spectacled Caiman (*Caiman crocodilus*)



American Crocodile (*Crocodylus acutus*)



Black Spiny-tailed Iguana (*Ctenosaura similis*)



Helmeted Basilisk (*Corytophanes cristatus*)



Yellow-spotted Tropical Night Lizard
(*Lepidophyma flavimaculatum*)



Central American Whiptail (*Holcosus festivus*)



Stream Anole (*Anolis oxylophus*)



White-throated Clawed Gecko
(*Gonatodes albogularis*)



Cloudy Snail-eating Snake (*Sibon nebulatus*)



Central American Rattlesnake (*Crotalus simus*)



Cope's Black-striped Snake (*Coniophanes piceivittis*)



Common Cat-eyed Snake
(*Leptodeira rhombifera*)

Anura	
Bufonidae	
01.	Yellow Toad (<i>Incilius luetkenii</i>)
Centrolenidae	
02.	Emerald Glass Frog (<i>Espadarana prosoblepon</i>)
Craugastoridae	
03.	Fitzinger's Robber Frog (<i>Craugastor fitzingeri</i>)
Dendrobatidae	
04.	Green-and-black Poison Dart Frog (<i>Dendrobates auratus</i>)
05.	Blue Jeans Poison Dart Frog (<i>Oophaga pumilio</i>)
Hylidae	
06.	Small-headed Treefrog (<i>Dendropsophus microcephalus</i>)
07.	Common Mexican Treefrog (<i>Smilisca baudinii</i>)
08.	Veined Treefrog (<i>Trachycephalus venulosus</i>)
Leptodactylidae	
09.	Túngara Frog (<i>Engystomops pustulosus</i>)
10.	Turbo White-lipped Frog (<i>Leptodactylus poecilochilus</i>)
11.	Savage's Thin-toed Frog (<i>Leptodactylus savagei</i>)
Microhylidae	
12.	Sheep Frog (<i>Hypopachus variolosus</i>)
Ranidae	
13.	Montane Leopard Frog (<i>Lithobates taylori</i>)
14.	Brilliant Forest Frog (<i>Rana warszewitschi</i>)



Emerald Glass Frog (*Espadarana prosoblepon*)



Sheep Frog
(*Hypopachus variolosus*)



Fitzinger's Robber Frog
(*Craugastor fitzingeri*)

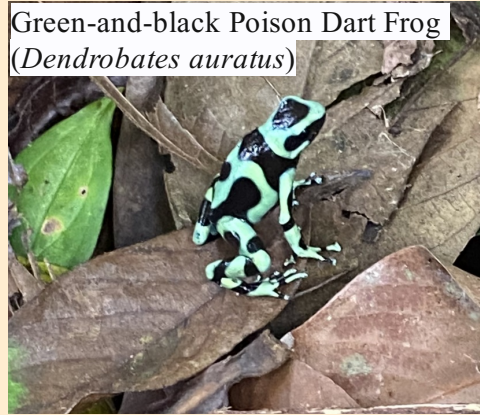


Veined Treefrog
(*Trachycephalus venulosus*)

Common Mexican Treefrog
(*Smilisca baudinii*)



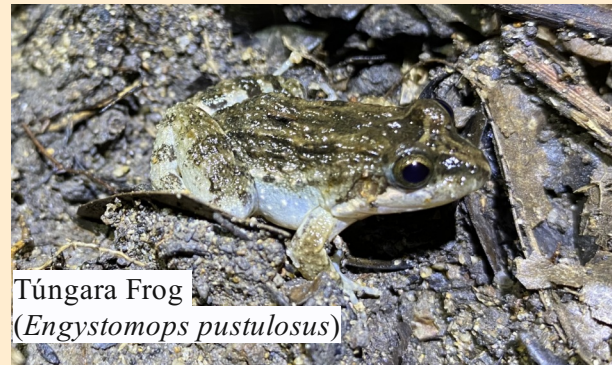
Green-and-black Poison Dart Frog
(*Dendrobates auratus*)



Blue Jeans Poison Dart Frog
(*Oophaga pumilia*)



Turbo White-lipped Frog
(*Leptodactylus poecilochilus*)



Túngara Frog
(*Engystomops pustulosus*)



Small-headed Treefrog
(*Dendropsophus microcephalus*)

Savage's Thin-toed Frog
(*Leptodactylus savagei*)



Brilliant Forest Frog (*Rana warszewitschi*)



Montane Leopard Frog (*Lithobates taylori*)