

BRAZIL Rio Aripuaña Mammal Expedition

Oct 3rd – Oct 16th 2019

Stefan Lithner



White-and-gold Marmoset

Photo Stefan © Lithner

This trip Was arranged by Fieldguides Birding Tours www.fieldguides.com as a mammal tour with special focus on Dwarf Manatee, bats and primates, but birds encountered were also noticed. A Fieldguides trip-report is available on <https://fieldguides.com/triplistsSUBMIT/grm19p.html>.

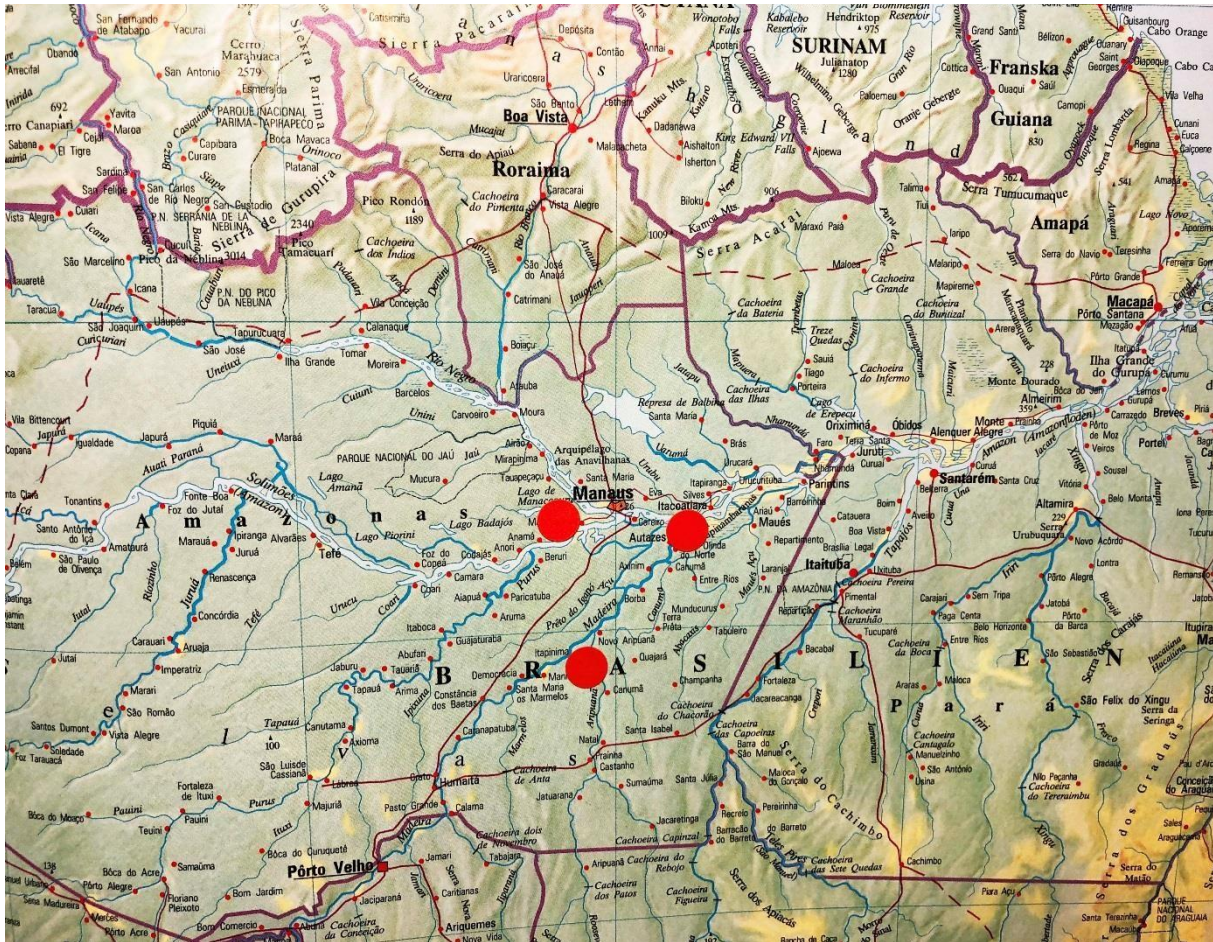
Trip conductors were Micah Riegner with special support by Jon Hall USA, Fiona Reid, Canada, and Marcello Brazil for Bats

Participants: Cherryl Antonucci USA, Jon Hall USA, Patrick Hall USA, Morten Joergensen Denmark, Stefan Lithner, Sweden, Keith Millar U.K., Fiona Reid, Canada, Mike Richardson U.K., Micah Riegner USA, Martin Royle U.K., Lynda Sharpe Australia, Mozomi Takeyabu Denmark and Sarah Winch U. K.

Itinerary in short

In Manaus; MUSA-tower and Tropical Hotel. Fast boat from Manaus to Novo Aripuaña; Rio Aripuaña (Oct 4th– Oct 9th). From Novo Aripuaña up stream Rio Aripuaña and then downstream, passing and/or making shorter expeditions; Novo Olinda, Prainha, Boca do Juma, area around Novo Olinda

Rio Madeira (Oct 10th – Oct 13th), passing and/or making shorter expeditions Matamata, Igarape Lucy. Then onto Rio Amazonas (Oct 14th – Oct 16th) where we stopped at Miracaueira, Ilha Grande, on Rio Negro; Ariau and back to Manaus.



Brief indication of areas we visited.

The trip officially started by dinner in Manaus in the evening of Oct 3rd, but for people present in Manaus prior to that were offered to visit the MUSA-tower about 20 minutes ride by taxi from the hotel and Tropic Hotel, Manaus even closer.

ITINERARY

Oct 3rd

Morten, Nozomi, Keith, Stefan and tour leader Micah arrived at the entrance of MUSA-tower reserve before opening at 08:00. As birdwatchers we were allowed to enter before eight. From the tower we saw among others; White-throated- and Channel-billed Toucans, Guianan and Green Toucanets, Black-necked Aracari, Red-billed Pied- and Paradise Tanagers, Cica Parrots, Granted Trogon and Guianan Tyrannulet..

The park also holds a small population of Pied Tamarin. Seven of these had been caught earlier during the morning for scientific research. They were released before our eyes.

In the afternoon we went to Tropical Hotel in Manaus. Here we could study Pied Tamarin a bit more relaxed. Also a Linne's Two-toed Sloth with a baby and also with Sloth Moths (*Chryptoses cholepi*) in its pelage.



Channel-billed Toucan

Photo Stefan © Lithner



Linne's Two-toed Sloth

Photo Stefan © Lithner

The site is also known for Golden-faced Saki, which now and then pay the area a visit, but sadly not today. Here we also saw some Amazonian Lava Lizards (*Trepidurus torquatus*).

Oct 4th

The original plan was we should take a flight to an airport next to Novo Aripuaña, but not long before this flight was going to take place we learned that the airport was closed down due to hazardous conditions. We therefore had to take a seven and a half hour speed-boat ride about 400 km upstream to Nova Aripuaña. Here we entered our Amazon-ferry-boat, Tumbira on which we slept, rested and had our meals during the tour.

First evening Fiona and Marcello set some nets and caught two species of bats; Hairy-spear-nosed Bat and Silky Short-tailed Bat. Since I was curious about the activity I joined Fiona and Marcelo when they were going to dismount the nets. While dismounting the nets Fiona demonstrated the call of Amazon Bamboo Rat (*Dactylomys dactylinus*) loudly calling not far from us. Either one of Fiona and Marcello found an Amazon Horned Frog (*Ceratophrys cornuta*) among the leaves, which was brought back to the boat for demonstration and documentation, and afterwards released where it was picked up.



Pied Tamarin

Photo Stefan © Lithner



Hairy Spear-nosed Bat

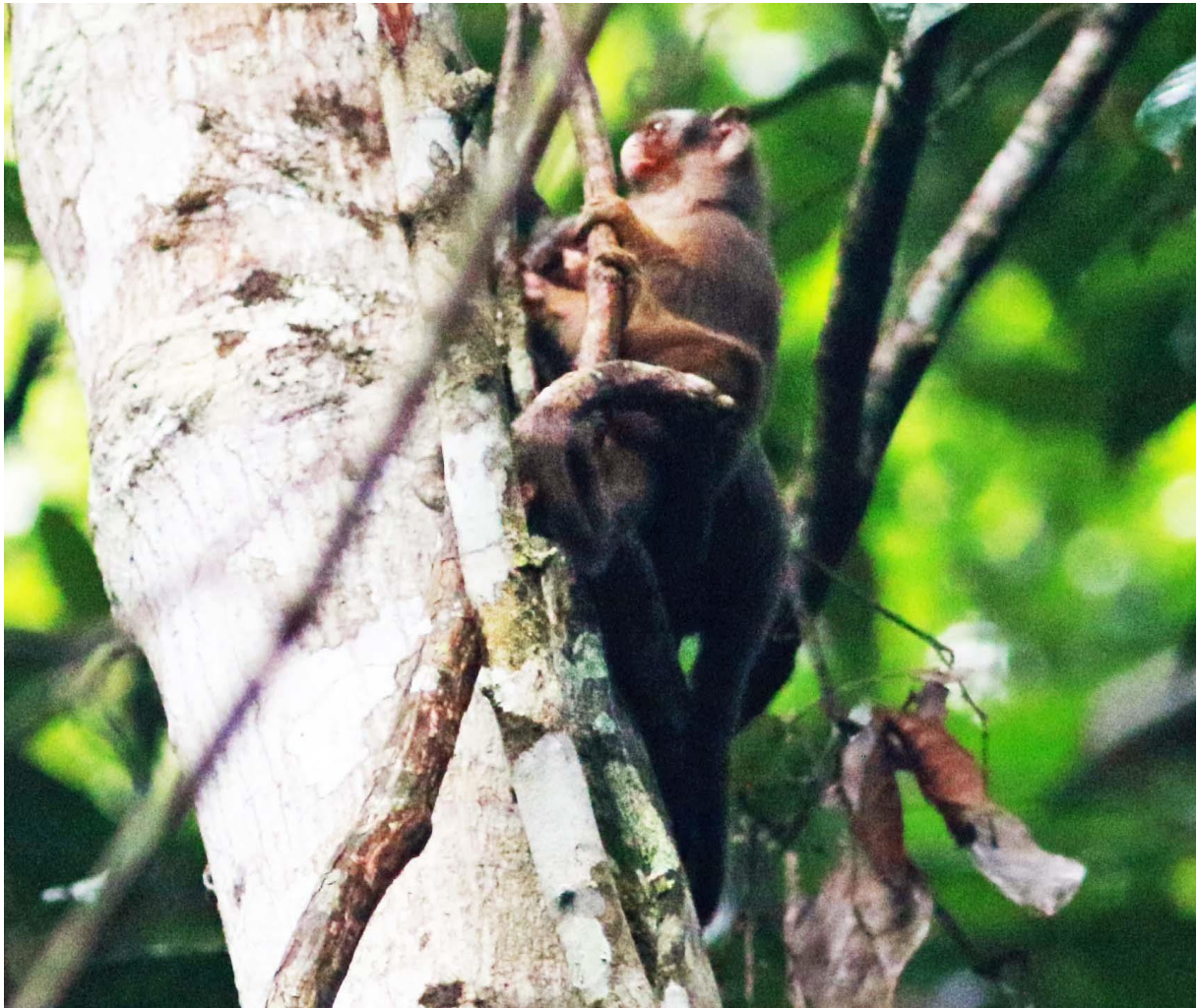
Photo Stefan © Lithner

Oct 5th

The following morning was meant to start the trip in small boats up to the site where the Dwarf Manatee had been reported. The canoe-trip was estimated to take about four hours one way, and the expedition required a rather normal water level. This year however the precipitation had nearly failed to appear, why the water-level was close to six metres lower than expected. A trip during these conditions was estimated to take around eight hours one way, instead of four. The group took a quick vote. Nine to one were in favour of cancelling this expedition.

Instead we headed for Novo Olinda to inquire whether the Dwarf Marmoset (*Callibella* [alt. *Callithrix*] *humilis*), was described in 1994 and hitherto found nowhere else, could still be found here.

Underway back to Tumbira we encountered our first Black Caiman. At dawn we returned to the site for Dwarf Marmoset. Two young locals were willingly helped us, and after a while they had spotted at least two.



Dwarf Marmoset

Photos Stefan © Lithner

Fiona as always anxious to check for bats found a Commissaris's Long-tongued Bat (*Glossophaga gommissrisia*) in a hollow log laying on the ground. Among birds we had an

exposé of a Zimmer's Woodcreeper. Black-fronted Nunbird was also present.



Zimmer's Woodcreeper

Photo Stefan © Lithner

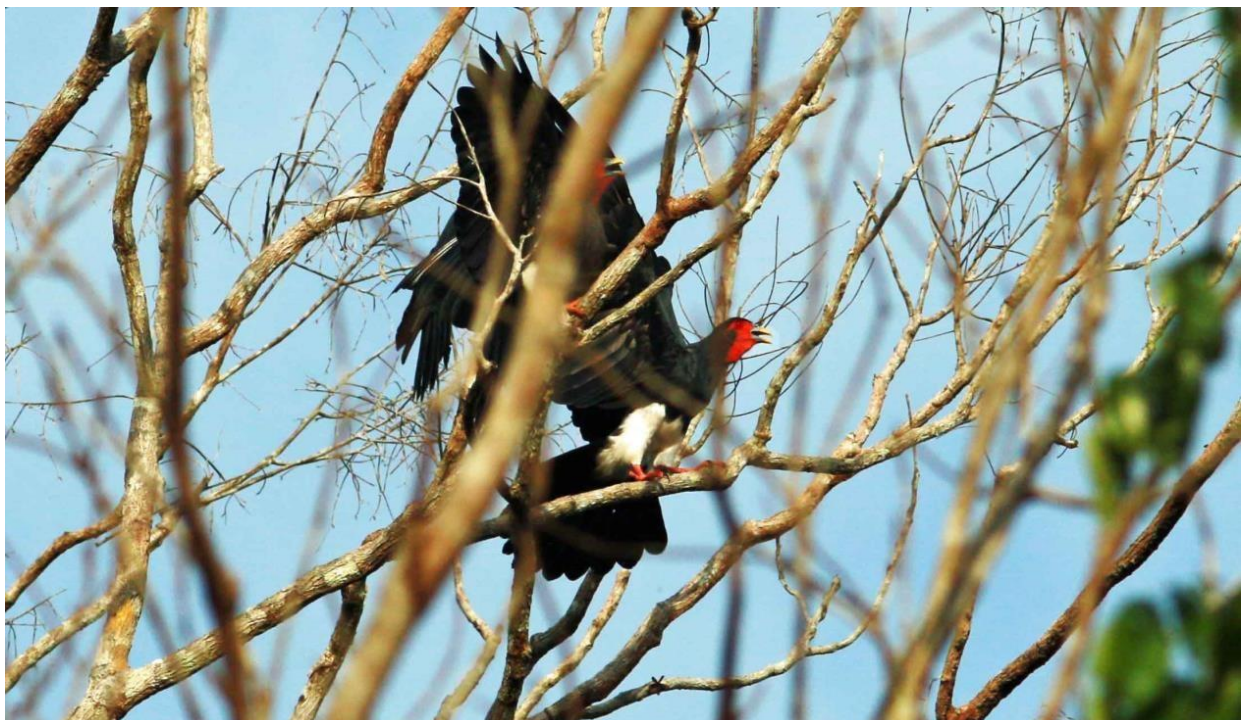


Bat Falcon

Photo Stefan © Lithner

After lunch we continued upstream to an area called Prainha. Here we walked on a dirt road until late afternoon. Several birds of interest were around; Bat Falcon, Red-throated Caracara, Paradise Jacamar, Pavonine Quetzal, while Brazilian- and

White-throated Tinamous were heard. Here we also found a Brown Sipo (*Chironeus fuscus*) and a Royal Ground Snake (*Erythrolamprus reginae*) (see below). Also a few butterflies possible to photograph and retrospectively identify were here (some photos below); Eunomia Numberwing (*Callicore eunomia*), Ruby-spotted Swallowtail (Cattleheart) (*Heracles [Papilio] anchisiades*), Crethon Daggerwing (*Marpesia crethon*) and Phlegia Metalmark (inoff. name) (*Staclachtis phlegia*). After dark it was also possible to see Morpho Butterflies perched, which made it possible to identify two species; Deidamia Morpho (*Morpho Deidamia*) Blue Morpho (*Morpho peleides*).



Red-throated Caracara

Photo Stefan © Lithner

Later in the evening we returned to the road for spotlighting. Here we spotted a Bare-tailed Woolly Opossums climbing along the forest edge. On the road we found an Empedocles' Moth (*Mania Empedocles*) and from a branch over the road a spectacular Spectacled Owl inspected us. Amazon Bamboo Rats were calling and an owl, retrospectively identified as Amazon Pygmy Owl gave a few calls.

Oct 6th

The following morning we returned to the same road at Prainha. Many of the species were seen again but some were new; Common Wolly Monkey, Whitebrowed Hawk, Bronzy Jacamar, Elegant Woodcreeper, Epauletted Oriole, Eastern Striped Woodhunter (*Automolus subulatus*) and Spot-winged Antshrike.



King Vulture

Photo Stefan © Lithner



Yellow-rumped Caciquw

Photo Stefan © Lithner

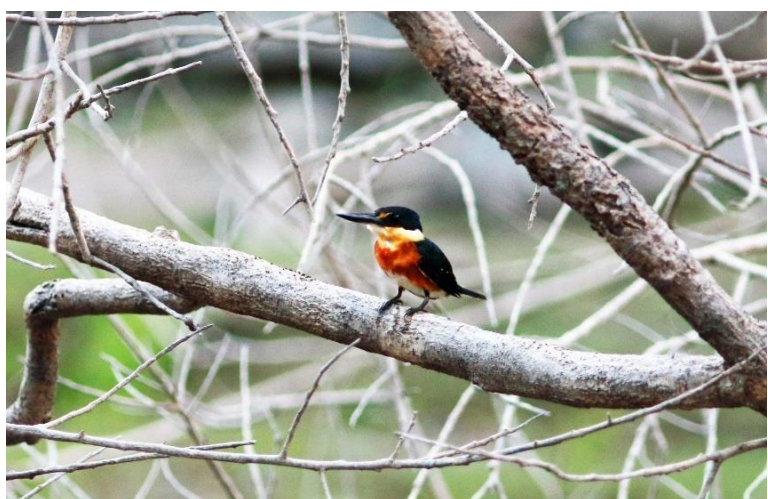
In the afternoon we made a boat trip along the sandy shores, or rather exposed river bottoms. Some nice birds here were Agami Heron, American Pygmy Kingfisher and a group of Hoatzins.

Meanwhile Fiona and Marcello had set nets for bats on a little ridge about 20 minutes boatripe from Tumbira, and caught some nice ones, i.e. Chestnut Sac-winged Bat (*Cormura brevirostris*). Fiona saw them under a fallen log, set up a net and caught one. It was transported to Tumbira, showed, photographed and released where it was caught.



Chestnut Sac-winged Bat

Photos Stefan © Lithner



American Pygmy Kingfisher

Oct 7th

We started the day by a canoe ride downstream towards Boca do Juma, saw some Scarlet Macaws, a Grey-headed Kite and passed some Spectacled Caimans. An Osprey got an adult Harpy Eagle on the wing. After some soaring it landed. We went ashore and we were able to spot it by scope.

We arrived at the fishing camp. Here we made walks hoping to find some more primates. We arrived at 13:15, so the temperature was high, and activities among primates low. Best sightings here were Black-headed Squirrel Monkeys and Dark-winged Trumpeters. During lunch a Phlegia Metalmark (*Stacaltis phlegia*) was courting us. (photo below). At 14:00 half the group commenced a canoe ride about half a hour downstream hoping to find an Amazon Manatee. Shortly prior to that the second Crocodile Tegu (*Crocodilurus amazonicus*) for the tour showed up at the canoes.

Local people said manatees had recently been sighted here, but manatees move around and change whereabouts throughout the year depending on water level, weather and time of day. We didn't see any manatee. As a minor compensation a Cynosura Numberwing (*Callicore cynosura*) landed on a branch half a meter in front of me and remained there.



Hoatzin

Photos Stefan ©Lithner

After our two hour effort to find any manatee, we returned to Tumbira and headed back to the community of Nova Olinda. When Tumbira later in the afternoon docked on the river-bank some Iulias (*Dryas iulia*) (photo below) paid interest to our canoes.

Oct 8th

In the morning we took a walk along a half overgrown forest road on the right bank of Rio Aripuaña to look for primates. After a while Micah spotted two Ashy Titis. While trying to get everyone to see them a Red-faced Bearded Saki (*Chiropotes chiropotes*) showed its face for a moment. An Amazonian Dwarf Squirrel was also seen here. Among the birds Chestnut-eared Aracari, Festive Parrot, Crimson-bellied Parakeet, Among the birds Chestnut-eared

Aracari, Festive Parrot, Crimson-bellied Parakeet, Yellowtufted Woodpecker may be worth mentioning. Some participants saw a Rufous-rumped Foliage-gleaner. Micah managed to show us a recently discovered *Spec. nova* Antshrike here. During the walk we also saw a lizard retrospectively identified as Green Ameiva (*Ameiva ameiva*), and a strange looking katydid.

In the afternoon I was offered to get a canoe ride along the bank of Rio Aripuaña while the majority of the group returned to the site we visited in the morning. Here I saw a Curiver's Spiny Rat running some metres on the ground, a Black-collared Hawk and Agami- and Cocou Herons were also here.



Black-collared Hawk

Photos Stefan ©Lithner



Photo Stefan ©Lithner

In the evening Fiona and Marcello caught our first Flat-faced Fruit-eating Bat (*Artibeus planirostris*), White-bellied Big-eared Bat (*Micronycteris minuta*).



Short-headed Broad-nosed Bat

Photos Stefan ©Lithner

Oct 9th

We continued our search near a settlement not far from Novo Aripuaña. After some time we found some Prince Bernhard's- and Marca's Marmosets (Det. Jon), which we saw fairly well, while a group of Red-nosed Sakis passed above us in the canopy. After lunch we made a canoe trip along the emerged bottoms of the river and saw some Great-billed- and Yellow-billed terns Terns, some Greater Yellowlegs and a little flock of Baird's Sandpiper.

In the evening Fiona and Marcello managed to catch some more new bats, i.e. Dark Fruit-eating- and Greater Round-eared Bats.



Dark Fruit-eating Bat

Photos Stefan ©Lithner



Greater Round-eared Bat

Photo Stefan ©Lithner

Oct 10th

We started with a walk near a settlement named Matamata, where Black-headed Night Monkeys were known to feed around the houses and Chestnut-bellied Titis were dwelling the surrounding forest. We were out of luck for these primates. At dawn a Black Agouti was found at the edge of an Amazonian football-field.

Slatecoloured Hawk, Buff-throated Woodcreeper, Festive Parrot and Grey-headed Tanager were seen and Undulating Tinamou was heard.

In the evening Fiona and Marcello caught more new bats. This time; White-bellied-, Big-eared-, Lesser Dog-faced-, Brown Tent-making- and Chestnut Short-tailed Bats



White-bellied Big-eared Bat

Photos Stefan ©Lithner



Greater Round-eared Bat

Photo Stefan ©Lithner



Chestnut Short-tailed Bat

Photo Stefan © Lithner

Oct 11th

In the morning we walked along a road from Matamata. Martin Royle spotted a Prehensiletailed Porcupine with his heat-detector and Fiona found a Southern Yellow-eared Bat, the expeditions smallest bat, perched in a tree. Some nice birds were Black-gilded Barbet and White-fronted Nunbird.

In the evening we made a walk on forest ground flooded several months a year. Among remarkable birds we here found the taxon of Black-tailed trogon under investigation to be split. Meanwhile Marcello caught another specimen of Southern Yellow-eared Bat.



Southern Little Big-eared Bat

Photos Stefan © Lithner



Greater Round-eared Bat

Photo Stefan © Lithner

Oct 12th

We went ashore again at Sao Jose where we had a date with a local guide. He was not there so Micah had to go and find him. Meanwhile we found our first Brown-throated Three-toed Slot

and heard Amazon Black Howler Monkeys call at a distant. Together with our guide we continued on a trail into the forest. On our way we passed a exquisitely posed Lineata Metalmark (*Stalachtis lineata*) (photo below).

We eventually came rather close to the howler monkeys but did not manage to spot them. In this lovely forest we saw some Chestnut-fronted Macaw, Slate-coloured Hawk, Silvered Antbird, Eastern Stipple-throated Antwren, Roosevelt's Antthrush and Masked Crimson Tanager. During our walk we also spotted a Black Witch (*Ascalapha -odorata*).



Dark-throated Three-toed Sloth

Photos Stefan © Lithner



Black Witch

Photo Stefan © Lithner

Oct 13th

In the morning Lynda and I joined Fiona and Marcello in their early netting attempt in the outskirts of Igarape Luci. Linda spotted a Common Opossum. After a while more participants joined us. The catch brought more species of bats; Silvery-tipped Myotis, Proboscis-, Gnome Fruit-eating-, Silver Fruit-eating- Common Long-tongued -, Common Tent-making- Greater Fishing-, Dark Fruit-eating- and White-winged Doglike Bats.



Silvery-tipped Myotis

Photos Stefan © Lithner



Proboscis Bat

Photo Stefan © Lithner

We also caught a Silver-beaked Tanager and next to us was a Rusty Tree Frog (*Hypsiboas boans*).

We then continued our walk on small trails. Fiona, as always checking possible hides for bats found another White-winged Doglike Bats in a hollow log laying on the ground. This individual was white on its belly, which according to Fiona is very uncommon for this species and required some extra checking among experts.

Our target primate here was the Baptista Titi, with a very limited distribution, only found between the Parana Uraria, Rio Madeira and Rio Amazonas. We located a group,

initially a bit uncooperative, but eventually allowing us to see it quite well. Also Gold-and white Marmosets were cooperative here.

Along the trail we heard more Amazon Black Howlers and Black-headed Night Monkeys. At a stop next to some left behind planks we found an Amazonian Pygmy Gecko (*Pseudogonatodes guianensis*) and also a scorpion. Retrospective efforts, including sending photos to experts in USA and Brazil only revealed the photos were not good enough for identification to species with certainty, most likely belonging to the genus *Brotheas* (photo below). Here we also found a Brazilian Wandering Spider (*Phoneutria fera* or *P. nigriventer*).



White-winged Doglike bat; with white belly in hollow trunk.

Photo Stefan © Lithner

Before turning back Micah found a Golden-headed Manakin.

Oct 14th

In the morning we took our canoes to a small settlement Miracaueda on the northern bank of Rio Amazonas. We heard Guianan Red Howler Monkeys at close range but failed to spot them. We saw a pair of Brown Capuchins.

Several interesting birds were seen here, like; Common Softtail, Vereza Piculet, Greenrumped Parrotlet, Horned Screemer, Yellow-browed Finch, Yellow-bellied Dacnis, Rufousbellied Conebill, Donacobius, Green-tailed Jacamar, Hook-billed-, Swallow-tailed- and Snail Kites, Savannah Hawk, Spot-breasted-, Little- and Lineated Woodpeckers, Hooded Tanager and Tropical Gnatcatcher. Here Patrick also spotted our second Phlegia Metalmark.

In the evening we went to Ilha Grande for a dusk-walk. Here we saw our first Hoffmann's Squirrel Monkey, Dwarf- and Fisher's Little Fruit Bats, while Amazon Bamboo Rats were calling. Just before dark we spotted a Diving Lizard (*Uranoscodon superciliosus*). After a while Jon found the Giant Tree Rat, target species for this landing thanks to his heatcamera. At least three were seen.



Vereza Piculet



Photo Stefan © Lithner

Yellow-browed Sparrow

Photo Stefan © Lithner

Oct 15th

After a morning walk we travelled with Tumbira while looking for birds flying over; Scarlet Macaw, Ghestnut-fronted Macaw, Festive Parrot, the two Yellow-headed vultures, while we scanned for Guianan Red Howlers. At one sight we thought we'd spotted one, but at closer look they were partly hidden leaves in suitable colour.

Since the desire to see Chestnut-bellied Titi among some participants was strong, Micah tried hard to arrange a noon- or afternoon trip on mainland to go and look for them, but neither weather nor drivers on the mainland were in our favour.

Towards dusk we left Tumbira for a canoe tour and a landing in Manaus Puranga Concista Tato Reserve. Along the edge of the River we found a some Armoured Rats climbing in the bank vegetation. We eventually landed in the reseve and walked some paths there. Another Armoured Rat showed up which Jon managed to squeak in, so it came running down the stem at close range.



Armoured Rat

Photo Stefan © Lithner

Shortly before disembarking the park an opossum was sighted. Fiona managed to run, catch up with it and identify it as a Grey Four-eyed Opossum. Not every one of the participants saw it well.

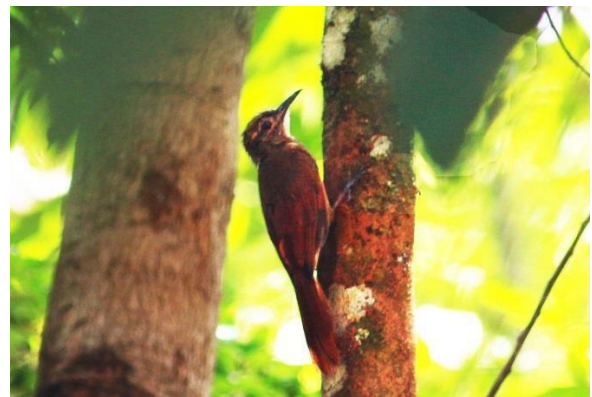
Oct 16th

In the morning we travelled on Tumbira to Dolphin Platform at Aripuanã for some extreme studies of Pink River Dolphin. After lunch we set out in canoes and followed a tributary creek (Micah's definition; between 30 and 70 metres wide). Along the trip we saw a group of Hoffmann's Squirrel Monkeys came down to the river edge to take a look at us. We saw a Sun Bittern gently walking along the shore, Sungeebes at two occasions, Green-and-rufous Kingfisher, Wattled Jacana, Longbilled- and Plain Brown Woodcreepers.



Hoffmann's Squirrel Monkey

Photo Stefan © Lithner



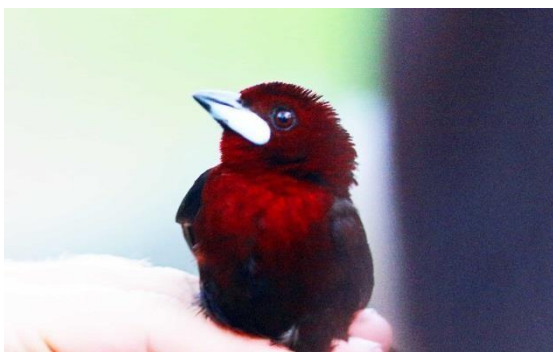
Plain Brown Woodcreeper

Photo Stefan © Lithner

On our way back we found a hollow tree standing at the edge of the "creek" which contained a group of Frosted White-lined Bat.

In the afternoon we returned to Tropical Hotel in Manaus for a second effort particularly to try to find Golden-faced Saki. The weather was not in our favor. We didn't find any Sakis but an Antiochus Longwing (*Heliconius antiochus*) resting on a leaf (see below)

At about 20:00 we had our "farewell supper on Tumbira and about an hour later we were transported either straight to the airport or to a hotel for a short rest before flight-departures.



Silver-billed Tanager

Photo Stefan © Lithner



Snail Kite

Photo Stefan © Lithner

MAMMALS



Brown-throated Three-toed Sloth at night, probably defecating

Photo Stefan © Lithner

Bare-tailed Woolly Opossum

the canopy along the Prainha Road Oct 5th.

Caluromis philander

One was seen in

Common Opossum

This species was seen Oct 5th, 12th and 13th.

Didelphis marsupialis

Grey Four-eyes Opossum

One was seen in Estredo do Tato Manaus Puranga Consista during night-walk Oct 16th.

Philander opossum

Linne's Southern Two-toed Sloth

Species was seen in the garden of Hotel Tropical Manaus; mother with young Oct 3rd and a single ind. Oct 16th.

Choloepus didactylus

Brown-throated Three-toed Sloth

This species we saw Oct 12th, 13th. and 14th. The latter was found on the ground during nightwalk. Sloths are known to descend to the ground to defecate at night.

Bradypus variegatus

BATS

37 photos of 22 species shown on https://pbase.com/stefan_lithner/brasilien_2019&page=all:

Emballonuridae

Northern Ghost Bat

Diclidurus albus

One seen flying over on nocturnal boatride on Rio Madeirinha Oct 12th.

White-winged Doglike Bat

Peropteryx leucoptera

One was caught in the early morning and two were found in a hollow trunk on the ground along the Igarape Luci near Nova Olinda along the Rio Madeira Oct 13th. Two others seen in a fallen hollow tree along the creek.

Greater Doglike Bat

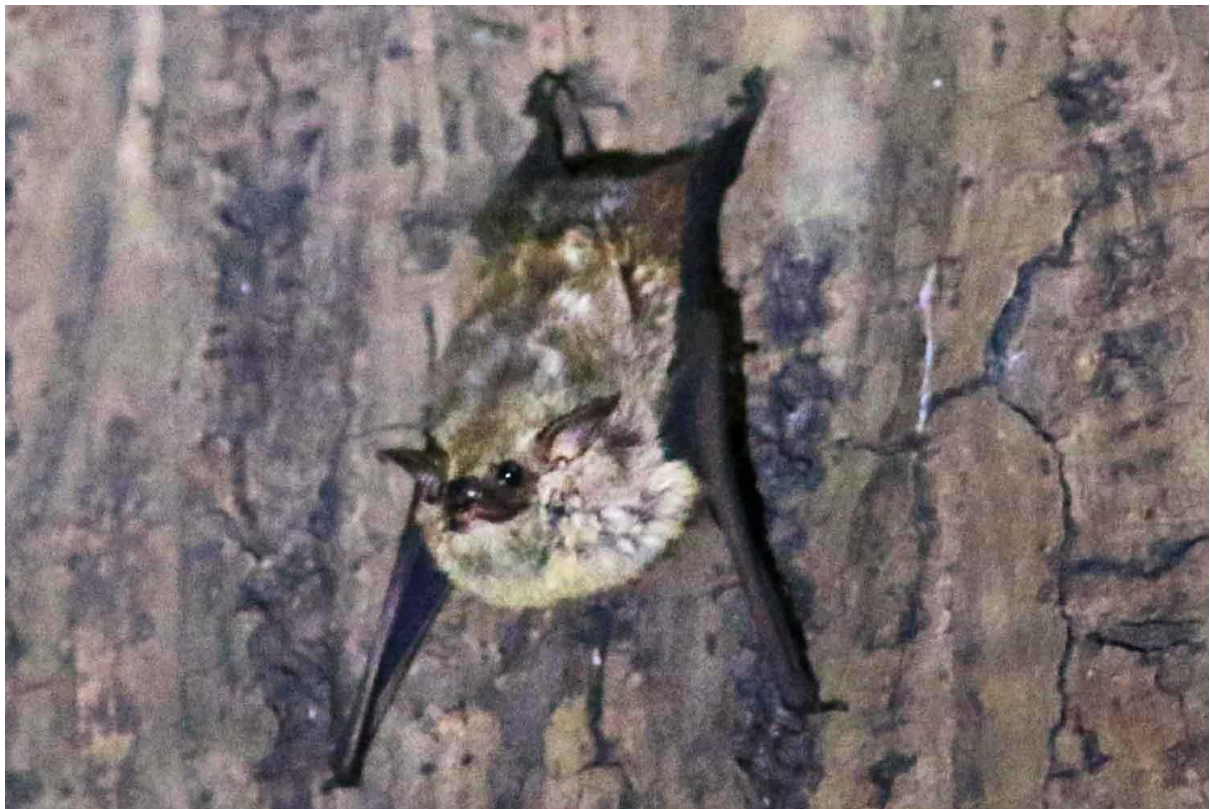
Peropteryx kappleri

Found several times, among others roosting in a hollow tree off the Prainha Road Oct 6th.

Lesser Doglike Bat

Pteropteryx macrotis

Caught at least Oct 7th, 10th and 13th.



Frosted White-lined Bat

Photo Stefan © Lithner

Proboscis Bat

Rhynchonycteris naso

At least photographed near Nova Olinda along the Rio Madeira in the morning of Oct 11th and one Oct 13th.

Greater White-lined Bat*Saccopteryx bilineata*

We saw one on a tree behind Matamata on the Rio Madeira Oct 11th.

Frosted White-lined Bat*Saccopteryx canescens*

A number of these were found roosting in a trunk at the river edge along Ilha Grande Oct 14th.

Chestnut Sac-winged Bat*Cormura brevirostris*

One was netted off the Prainha Creek Oct 11th, typically roosting on the underside of a fallen tree.

*Noctilionidae***Lesser Fishing Bat***Noctilio albiventris*

These were seen several times after sunset over the surface of River Aripuana.

Greater Fishing Bat*Noctilio leprinus*

These were seen several times over the surface of the rivers after sunset. One was caught at Igarape Luci along the Rio Madeira Oct 11th.

*Phyllostominae***Striped Hairy-nosed Bat***Mimon (Phyllostomus) crenulatum*

Netted at least near Nova Olinda on the Rio Madeira Oct 13th.

Lesser Spear-nosed Bat*Phyllostomus elongatus*

This species was caught at least during three nights; Oct 4th, Oct 10th and Oct 14th.



Striped Hairy-nosed Bat Bat

Photo Stefan © Lithner

Greater Spear-nosed Bat*Phyllostomus hastatus*

This species was caught Sao Jose, on the right bank of the Madeira Oct 10th.

Striue-headed Spear-nosed Bat*Tonatia saurophila*

This species was caught and photographed Oct 13th.

White-bellied Big-eared Bat*Micronycteris minuta*

Netted near Novo Aripuana Oct 9th.

*Pylostominae***Greater Spear-nosed Bat***Phyllostomus hastatus*

One was caught near Nova Olinda on the Rio Madeira Oct 13th.

Pale Spear-nosed Bat*Phyllostomus discolor*

Caught several times on the tour. First catch Oct 4th.



Greater Spear-nosed Bat

Photo Stefan © Lithner

Commissaris's Long-tongued Bat (Brown Long-tongued-) *Glossophaga commissarisi* One was found by Fiona in a hollow trunk laying on the ground near Nova Olinda Oct 5th.

Silky Short-tailed Bat*Carollia brevicauda*

Caught at least three days in secondary forest secondary forest Oct 5th, Oct 10th and Oct 14th.

Seba's Short-tailed Bat*Carollia perspicillata*

Caught at least Oct 10th and Oct 10th.

Benkeith's Short-tailed Bat*Carollia benkeithi*

In the tiny settlement of Matamata on the left side of Rio Madeira Oct 10th.

Chestnut Short-eared Bat*Carollia castanea*

One was caught and photographed Oct 10th.

Fischer's Little Fruit Bat*Rhinophylla fischerae*

One was caught near Igarape Luci Oct 13th.

Dwarf Little Fruit Bat*Rhinophylla pumilio*

One was caught along Igarape Luci Oct 13th.



Silvery Fruit-eating Bat Bat

Photo Stefan © Lithner

Sternodermatinae**Dwarf Fruit-eating Bat***Dermanura (Artibeus) gnomus*

One was caught outside of Igarape Luci Oct 13th.along the Rio Madeira.

Silvery Fruit-eating Bat*Dermanura (Artibeus) glauca*

One caught at Igarape Luci Oct 13th.

Flat-faced Fruit-eating Bat*Artibeus planirostris*

This species was caught several times along the Rio Madeira; Oct 8th, 10th, 13th, and 14th.

Dark Fruit-eating Bat*Artibeus obscurus*

This species was caught at least Oct 6th and along Igarape Luci Oct 13th.

Great Fruit-eating Bat*Artibeus lituratus*

At least one, caught Oct 10th.



Great Fruit-eating Bat

Photo Stefan © Lithner

Little Yellow-eared Bat*Vampyressa pusilla*

Fiona spotted this bat under a Philodendron tent behind Matamata Oct 11th.

Bidentate Yellow-eared Bat*Vampyriscus bidens*

Fiona spotted this under a Philodendron tent behind Matamata Oct 11th.

Sternodermatinae**Common Tent-making Bat***Uroderma bilobatum*

We saw these in a “palm tent” on the trail behind Nova Olinda Oct 14th.

Brown Tent-making Bat*Uroderma magnirostrum*

One was caught near Novo Aripuana.

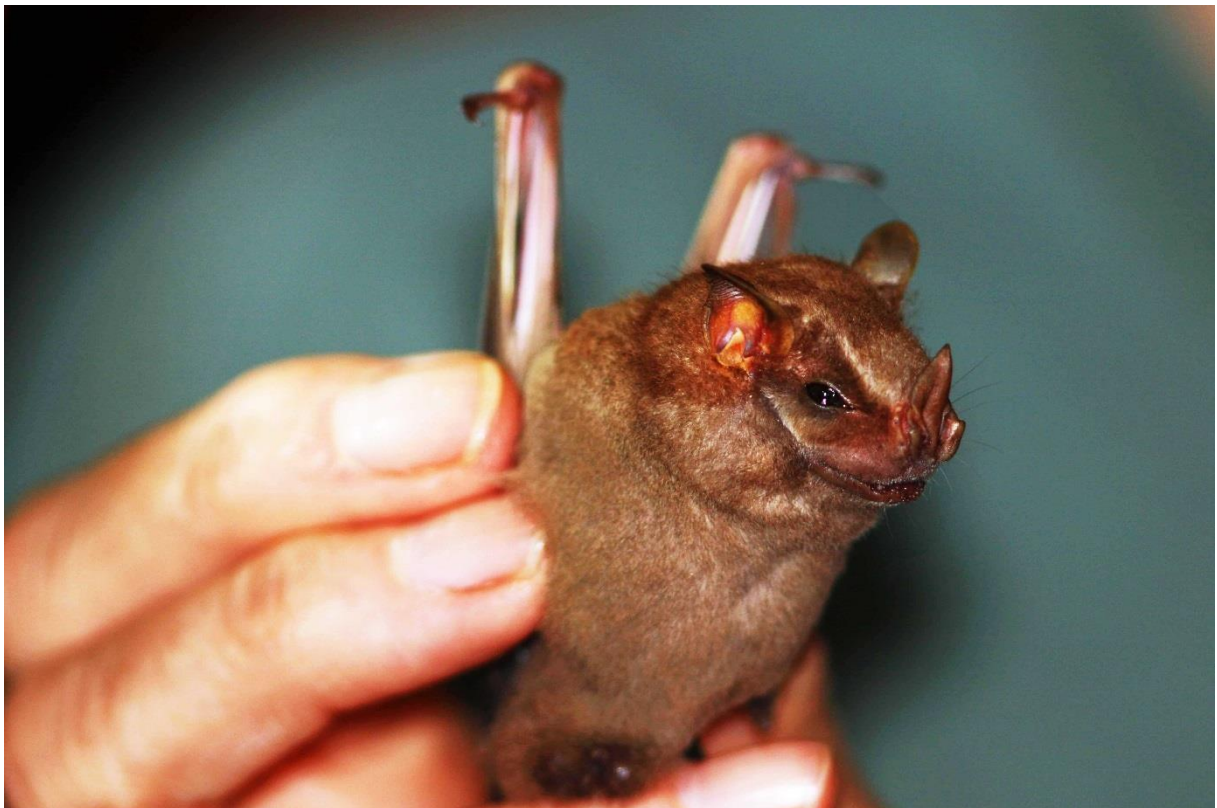
Sternodermatinae

Silver-tipped Myotis*Myotis albescens*

One was caught and photographed at Igarape Luci on the Rio Madeira Oct 13th.

Cinnamon Dog-faced Bat*Cynomops abrasus*

A poorly known species, noted Oct 10th., 11th. found in the building at Matamata Oct 13th.



Brown Tent-making Bat

Photo Stefan © Lithner

Short-headed Broad-nosed Bat*Platyrrhinus brachycephalus*

One was caught and photographed Oct 10th.

PRIMATES

Red-nosed Bearded Saki (Red-backed B S) *Chiropotes chiropotes* We had some brief looks of a group passing us Oct 9th.

Golden-backed Squirrel Monkey*Saimiri ustus*

Seen Oct 9th, 10th and Oct 11th.

Humboldt's Squirrel Monkey*Saimiri cassiquarensis*

Seen Oct 14th and Oct 16th.



Humboldt's Squirrel Monkey

Photo Stefan © Lithner

Brown Capuchin

(Tufted Capuchin)

Sapajus (Cebus) apella

Genus *Sapajus* contain at least seven taxa, with rather limited differences in exterior and according to IUCN with distributions overlapping each other. *S. apella* were seen at least Oct 10th and Oct 14th

Guianan Red Howler Monkey*Alouatta macconnelli*

A group of this species was heard at close range at Miracaueira Oct 14th but not spotted.

Amazon Black Howler Monkey*Alouatta nigerrima*

According to known distribution these were the howlers heard Oct 16th.

Grey Wolly Monkey*Lagothrix cana*

This species was seen briefly on Prainha road Oct 6th.

Prince Bernhard's Titi*Callicebus bernhardi*

This species was described in 2002. We eventually managed to see them behind Nova Olinda Oct 6th.

Ashy Titi*Callicebus cinerascens*

At least two were seen on the right bank of Rio Aripuana across from Nova Olinda Oct 8th.

Baptista Titi*Callicebus baptista*

A species with very limited distribution, described 1939. Micah Reigner: “We had outstanding looks at these” along Igarape Luci on the Rio Madeira Oct 13th.

Dwarf Marmoset*Callibella (Callithrix) humilis*

This species with a body length of 16-17 centimetres and a tail 21-23 centimetres was described in 1994 from this site, and has not been sighted at any other site yet. Species seen at Novo Olinda Oct 5th.

Marca's Marmoset*Callitrix marcai*

A group was lured to come close to us at Nova Olinda Oct 9th.

Gold-and-white Marmoset*Callitrix chrysoleuca*

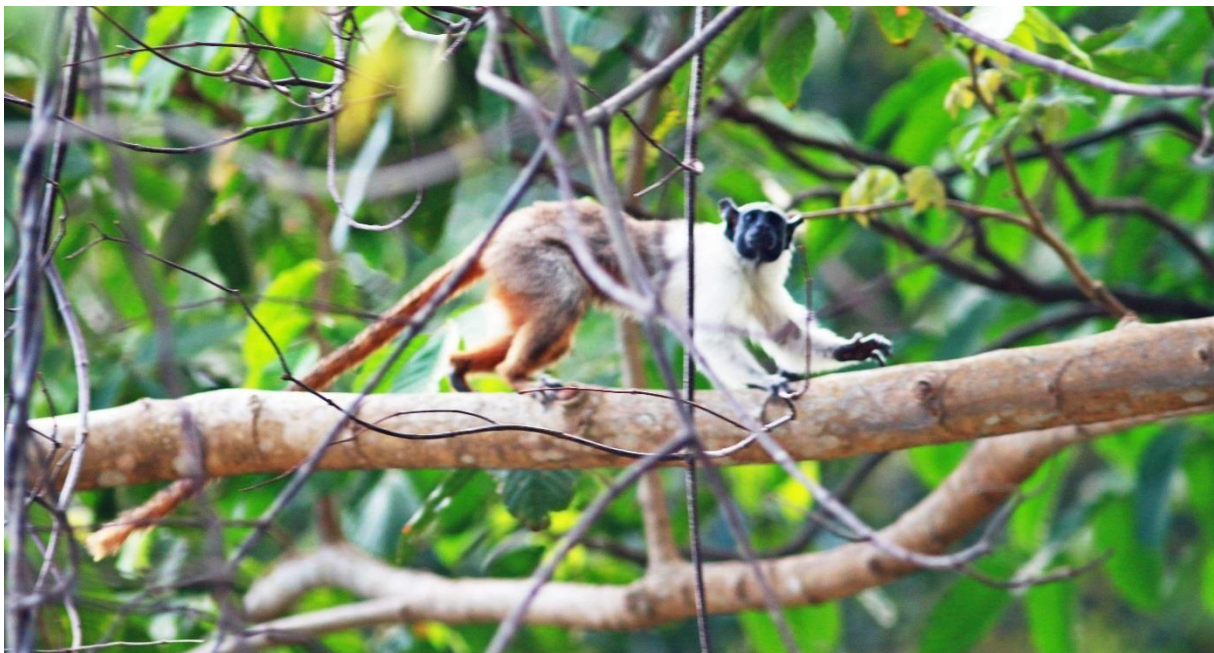
Seen several times throughout the tour. Our best views were along the Igarape Luci Oct 13th.

Pied Tamarin*Saguinus bicolor*

Seven individuals were seen released at the Research station by the MUSA-tower Oct 3rd and several were seen in the garden of Hotel Tropical in Manaus also Oct 3rd.

Black-headed Night Monkey*Aotus nigriceps*

During night-walk along Prainha road Oct 6th. we heard them howling as well as making noise climbing, but were unable to spot them.



Pied Titi

Photo Stefan © Lithner

CARNIVORES

Tayra

Eira barbara

One was seen by first participants crossing our forest road Oct 10th.

RODENTS

Amazonian Dwarf Squirrel

Microsciurus flaviventer

One was seen at MUSA-tower Oct 3rd.

Black Agouti

Dasyprocta fuliginosa

One was seen at the edge of a football-field at Nova Olinda Oct 10th.

Red-rumped Agouti

Dasyprocta eporina

This species was seen at least once by two participants at Tropical Hotel Manaus Oct 16th.

Prehensile-tailed Porcupine

Coendou prehensilis

Discovered by with heat-detector by Martin behind Matamata Oct 11th.

Amazon Bamboo Rat

Dactylomys dactylinus

Heard several times at night, at least Oct 4th, 6th and 15th.

Cuvier's Spiny Rat

Proechimys cuvieri

One seen by Stefan running on the sandy right bank of Rio Aripuaña during daylight Oct 8th. Comparing size, HB/T-relation, pelage colour, geographical distribution and habitat of all rodents in South America described in Handbook of the Mammals of the World, this is the only species fully matching the observation.

Giant Tree Rat

Toromys grandis

At least three were found during night walk on Ilha Grande on the Amazonas Oct 16th.



Tucuxis "couple-dancing"

Photo Stefan © Lithner



Boto at close range

Photo Stefan © Lithner

Brazilian Spiny Tree Rat (Red-nosed Spiny Rat) *Makalata didelphoides*

Several seen along the river edge Oct 15th, and one excellent sighting in Estredo do Tato Manaus Puranga Consista during night walk same night.

Neotropical Pygmy Squirrel *Sciurillus pusillus*

One was seen on the right bank Aripuana across from Nova Olinda Oct 10th.

CETACEANS

Pink River Dolphin (Boto) *Inia geoffrensis* –

Common throughout the tour, extreme proximity at the dolphin platform at Ariau Oct 16th.

Grey River Dolphin Tucuxi) *Sotalia fluviatilis* These were also common throughout the tour.

B I R D S



King Vulture

Photo Stefan © Lithner

Species presented in order as presented in Van Perlo; Birds of Brazil 2009.

* No affirmation or comment yet (2020-02-26), by trip's bird-responsible.

Anhinga
Pelagic Cormorant

Anhinga anhinga
Phalacrocorax brasilianus

Green Ibis

Mesembrinibis cayennensis

Black-crowned Night-heron
Black-crowned Night-heron

Nycticorax nycticorax
Nycticorax nycticorax

Boat-billed Heron

Cochlearius cochlearius

Snowy Egret

Egretta thula

Great Egret

Ardea alba

Cattle Egret

Bubuculus ibis

Capped Heron

Pilherodius pieatus

Cocoi Heron

Ardea cocoi

Agami Heron

Agamia agami



Agami Heron

Photo Stefan © Lithner

Horned Screamer

Anhima cornuta

Black-bellied Whistling-duck

Dendrocygna autumnalis

Orinocco Goose

Neochen jubata

Muscovy Duck

Cairina moschata

Black Vulture

Coragyps atratus

Turkey Vulture
Lesser Yellow-headed Vulture
Greater Yellow-headed Vulture
King Vulture

Cathartes aura
Cathartes burrovianus
Cathartes melambrotus
Sarcoramphus papa

Osprey
Swallow-tailed Kite
Long-winged Harrier
Snail Kite
Plumbeous Kite
Grey-headed Kite
Hook-billed Kite
Slate-coloured Hawk
White-browed Hawk
Roadside Hawk
Savanna Hawk
Great Black Hawk
Black-collared Hawk
Harpy Eagle
Bat Falcon
Black Caracara
Red-throated Caracara

Pandion haliaetus
Elanoides forficatus
Circus buffoni
Rostrhamus sociabilis
Ictinea plumbea
Leptodon cayanensis
Condorhierax uncinatus
Leucopternis chistaceus
Leucopternis kuhli
Buteo magnirostris
Buteogallus meridionalis
Buteogallus urubitinga
Buteogallus nigricollis
Harpia harpyja
Falcon ruficularis
Daptrius ater
Hycter americanus



Cocoi Heron

Photo Stefan © Lithner

Southern Caracara
Yellow-headed Caracara

Caracara plancus
Milvago chimachima

Grey Tinamou
Great Tinamou
White-throated Tinamou
Undulated Tinamou
Brazilian Tinamou

*Tinamus tao**
Tinamus
Tinamus guttatus
Crypturellus undulates
Crypturellus strigulosus

Dark-winged Trumpeter

Psophia viridis

Hoatzin

Ophistochomus hoazin

Speckled Chachalacha

Ortalis guttata

Wattled Jacana
Grey-necked Woodrail

Jacana jacana
Aramides cajanea

Sunbittern

Eurypyga helias



Hook-billed Kite

Photo Stefan © Lithner

Sungreebe

Heliornis fulica

Greater Yellowlegs

Tringa melanoleuca

Spotted Sandpiper
Solitary Sandpiper
Southern Lapwing
American Golden Plover
Baird's Sandpiper

Actitis macularis
Tringa solitaria
Vanellus chilensis
Pluvialis dominica
Calidris bairdii

Large-billed Tern
Yellow-billed Tern

Phaetusa simplex
Sterna superciliaris

Common Ground-dove
Ruddy Ground-dove
Rock Pigeon
Pale-vented Pigeon
Ruddy Pigeon

Columbina passerine
Columbina minuta
Columba livia
Patagioenas cayennensis
Patagioenas subvinacea

Chestnut-fronted Macaw
Blue-and-yellow Macaw
Scarlet Macaw
Red-and-green Macaw
White-eyed Parakeet
Crimson-bellied Parakeet

Ara severus
Ara araruna
Ara macao
Ara chloropterus
Aratinga leucophthalma
Pyrrhura perlata



Sun Bittern

Photo Stefan © Lithner

Green-rumped Parrotlet

Forpus passerines

Scarlet-shouldered Parrotlet
Tui Parakeet
Golden-winged Parakeet
Meley Parrot
Kawall's Parrot
Festive Parrot
Dusky Parrot
Caica Parrot
Bald Parrot
Short-tailed Parrot
Blue-headed Parrot

Greater Ani
Smooth-billed Ani
Little Cuckoo
Squirrel Cuckoo

Touit huetii
Brotogetis sanctithomae
Protogetis chrysoptera
Amazona farinose
Amazona kawalli
Amazona festiva
Pionus fuscus
Pyrilia caica
Pyrilia aurantiocephala
Graydidascalus crachyurus
Pionus menstruus

Chrotophaga major
Crotophaga ani
Piaya minuta
Piaya cayana



Spectacled Owl

Photo Stefan © Lithner

Tropical Screech-owl
Amazonian Pygmy Owl
Spectacled Owl

Great Potoo

Megascops choliba
Glaucidium hardyi
Pulsatrix perspicillata

Nyctibus grandis

Ladder-tailed Nightjar
Nacunda Nighthawk
Short-tailed Nighthawk
Common Paraque
Blackish Nightjar
Short-tailed Swift

Hydropsalis climacocerca
Podager nacunda
Lurocalis semitorquatus
Nyctidromus albicollis
Caprimulgus nigrescens
Chaetura brachyura

Eastern Long-tailed Hermit
Great-billed Hermit
Reddish Hermit
Versicoloured Emerald

Phaethornis superciliosus
Phaethornis malaris
Phaethornis ruber
Amazilia versicolor



Grey-necked Woodrail

Photo Stefan © Lithner

Pavonine Quetzal
Black-tailed Trogon
Violaceous Trogon
Granted Trogon (Blue-crowned Trogon)

Pharomachrus pavoninus
Trogon melanurus
Trogon violaceus
Trogon curicui

Rufous Motmot

Baryptothengus martii

Ringed Kingfisher
Green-and-rufous Kingfisher
Amazon Kingfisher

Megaceryle torquata
Chloroceryle inda
Chloroceryle amazona

American Pygmy Kingfisher
Green Kingfisher

Chloroceryle aenea
Chloroceryle Americana

Paradise Jacamar
Bronzy Jacamar

Galbula dea
Galbula leucogastra



Paradise Jacamar

Photo Stefan © Lithner

Green-tailed Jacamar
Brown Jacamar

Galbula galbula
Brachygalba lugubris

Black-spotted Barbet
Gilded Barbet
Brown-chested Barbet
Black-girdled Barbet
Swallow-winged Puffbird

Capito niger
Capito auratus
Capito brunneipectus
Capito dayi
Chelidoptera tenebrosa

Black-fronted Nunbird
White-fronted Nunbird

Monasa nigrifrons
Monasa morpheus

Lettered Aracari
Green Aracari
Black-necked Aracari
Chestnut-eared Aracari

Pteroglossus inscriptus
Pteroglossus viridis
Pteroglossus aracari
Pteroglossus castanotis

Guianan Toucanet
Golden-collared Toucanet
Channel-billed Toucan

Selenidera piperivora
Selenidera reinwardtii
Ramphastos vitellinus

White-throated Toucan
Toco Toucan

Ramphastos vitellinus
Ramphastos toco

Vareza Piculet
Yellow-throated Woodpecker
Little Woodpecker
Spot-breasted Woodpecker
Yellow-tufted Woodpecker
Ringed Woodpecker
Lineated Woodpecker

Picumnus varzeae
Piculus flavigula
Venilornis passerines
Colaptes punctigula
Melanerpes cruentatus
Celeus torquatus
Dryocopus lineatus



Scarlet Macaw

Photo Stefan © Lithner

Red-necked Woodpecker
Eastern Striped Woodhunter

*Campepolus rubricollis**
Automolus subulatus

Rufous-tailed Xenops

Philydor ruficaudatum

Cinereous Antshrike
Spot-winged Antshrike
White-shouldered Antshrike
Amazonian Antshrike

Thamnomanis caesius
Pygiptila stellaris
Thamnopsilus aethiops
Thamnophilus amazonicus

Eastern (Madera) Stipple-throated Antwren

Myrmotherula amazonica

Rodonia Bushbird

*Clytoctantes atrogularis**

Blackish Antbird

Cercomacra nigrescens

Slivered Antbird

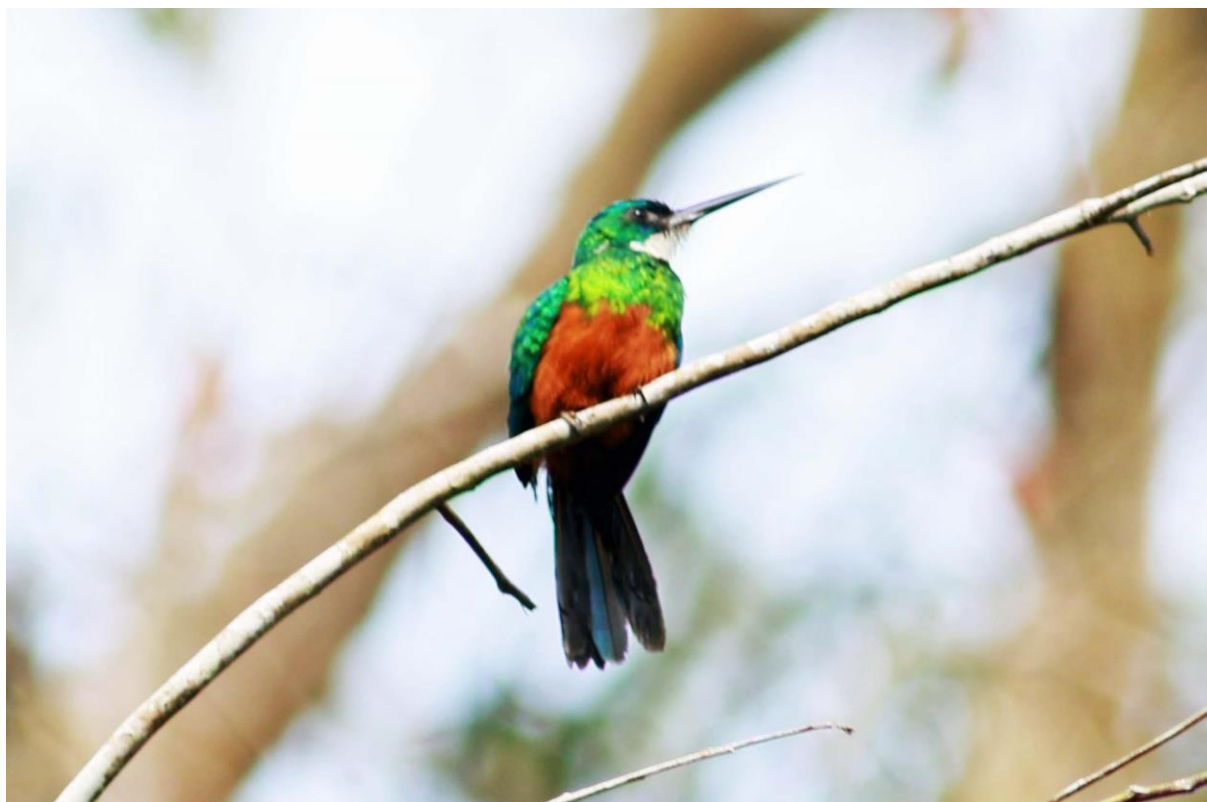
Selateria naevia

Common Scale-backed Antbird

Willisornis poecilinotus

Black-spotted Bare-eye

Phlegopsis nigromaculata



Green-tailed Jacamar

Photo Stefan © Lithner

Spot-winged Antthrush

*Schistocilcla leucostigma**

Screaming Phia

Lipaugus vociferans

Yellow-throated Flycatcher

Conopias parvus

Great Kiskadee

Pitangus sulphuratus

Streaked Flycatcher

Myiodynastes maculatus

Island Streaked Flycatcher

Myiodynastes Spec nova

This taxon is about to be split shortly. We saw it on Ilha Grande Oct 14th.

Tropical Kingbird

Tyrannus melancholicus

Tropical Pewee

Contopus cinereus

White-winged Swallow

Tachycineta albiventer

Grey-breasted Martin

Progne chalybea

Southern Rough-winged Swallow

Stelgidopterys ruficollis



Donacobius

Photo Stefan © Lithner



Yellow-chinned Spinetail

Photo Stefan © Lithner

Thrushlike Wren
Golden-headed Manakin
White-crowned Manakin
Dwarf Tyrant-manakin

Black-tailed Tityra

Guianan Tyrannulet

Spotted Tody-flycatcher

Eastern Slaty Rhrush
Pale-breasted Thrush
Lawrence's Thrush
Hauxwell's Thrush

Green Oropendola
Olive Oropendola
Crested Oropendola
Solitary Black Cacique
Yellow-rumped Cacique
Epaulet Oriole

Paradise Tanager
Red-billed Pied Tanager
Hooded Tanager
Grey-headed Tanager
Masked Crimson Tanager
Silver-beaked Tanager
Blue-grey Tanager
White-shouldered Tanager

Campylorhynchus turdinus
Ceratopipra erythrocephala
Pseudipipra pipra
Tyrannetus stoltzmanni

Tityra cyana

Zimmerius acer

Todirostrum maculatum

Turdus subalaris
Turdus leucomelas
Turdus lawrencii
Turdus hauxwelli

Psarocolius viridis
Psarocolius bifasciatus
Psarocolius decumanus
Procasius solitarius
Casicus cela
Icterus cayanensis

Tangara chilensis
Lamprospiza melanoleuca
Nemosia pileata
Eucometis penicillate
Rhamphoelus nigrogularis
Rhamphocelus carbo
Thraupis episcopus
Tachyphonus luctuosus

Paradise Tanager
Bananaquit

Tangara chilensis
Coereba flaveola



Blue-grey Tanager

Photo Stefan © Lithner



Green Honeycreeper

Photo Stefan © Lithner

Slate-coloured Grosbeak

Saltator grossus

Black-faced Dacnis

Dacnis lineata

Yellow-bellied Dacnis

Dacnis flaviventer

Blue Dacnis

Dacnis cayana

Green Honeycreeper

Chlorophanes spiza

Red-legged Honeycreeper

Cyanerpes cyaneus

Chestnut-vented Conebill

Conirostrum speciosum

Tropical Gnatcatcher

Polioptia plumbea

Wing-barres Seedeater

Sporophila americana

Yellow-browed Sparrow

Ammodramus aurifrons

REPTILES and AMPHIBIANS

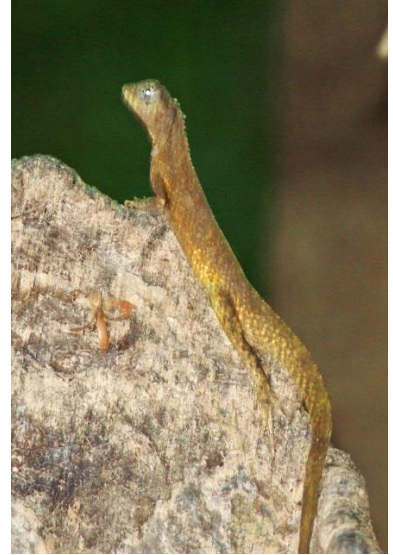
Photos of amphibians and reptiles photographed during the trip but not with certainty identified have been sent to the Swedish experts on neotropic amphibians and reptiles Johan Nylander and Mikael Lundberg (JN/ML) working with Museum of Natural History in Stockholm, Sweden, for evaluation.

Taxa listed in alphabetic order after scientific names.



Spectacled Caiman

Photos Stefan © Lithner



Diving Lizard

CAIMANS

Spectacled Caiman

Seen most days during the trip.

Caiman crocodilius

Black Caiman

Seen at least in Rio Madeira Oct 5th - 9th.

Melanosuchus niger

LIZARDS



Amazonian Racerunner

Photo Stefan © Lithner



Blue-lipped Tree-runner

Photo Stefan © Lithner

Amazon Racerunner (Giant Ameiva, Green Ameiva etc.) *Ameiva ameiva*

One photographed near Matamata Oct 10th. and identified from photo by JN/ML.

Amazonian Whiptail Lizzard*Cnemidophorus sp.*

One was seen on Ilha Grande during dusk-walk Oct 15th.

Crocodile Tegu*Crocodilurus amazonicus*

This species as seen at least twice. One was seen along Rio Aripuaña Oct 15th.

Green Iguana*Iguana iguana*

This species was seen several times throughout the trip.

Amazon Tree Runner*Plica plica*

A highly plausible candidate for this species was seen at least at Matamata Oct 10th. See next species.

Blue-lipped Tree Lizard*Plica umbra*

One s*Plica*-pecimen was photographed Oct 13th, most likely belonging to ths species. Definite identification requires ability to count scales. Unless *P. umbra* then *P. plica*. (JN/ML)

Amazonian Pygmy Gecko*Pseudogonatodes guianensis*

One was seen near Nova Olinda along the Rio Madeira Oct 13th.

Amazonian Lava Lizzard*Trepidurus torquatus*

These were the lizards at the Tropical Hotel, Manaus Oct 3rd and 16th (Det. Micah Reigner).

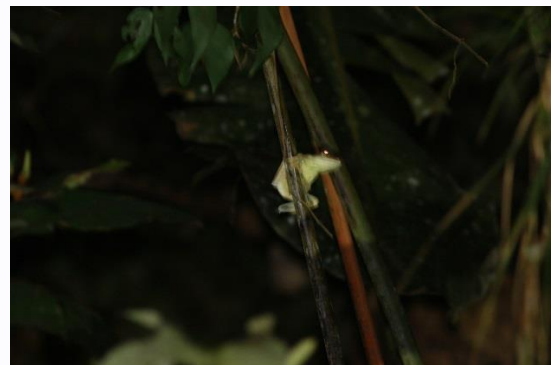
Diving Lizard*Uranoscodon superciliosus*

One seen during dusk-walk on Ilha Grande on the Rio Amazonas



Proboscis Toad

Photos Stefan © Lithner



Rusty Tree Frog

Photos Stefan © Lithner

FROGS and TOADS

Boulenger's Poison Frog*Amerega (Dendrobates) hahneli*

This species was photographed at least near Matamata Oct 11th. (JN/ML)

Amazon Horned Frog*Ceratophrys cornuta*

First night while bat-catching one was discovered among leaves on the ground Oct 4th.

Rusty Tree Frog*Hypsiboas boans*

Oct 13th both morning and evening and several on boat trip Oct 15th.

*Rhinella ruber*-complex

Photos Stefan © Lithner



Napo Lime Tree Frog (see below)

Photos Stefan © Lithner

Cane Toad*Rhinella marina*

This species was photographed upstream from Novo Aripuaña Oct 5th.

South American Common Toad*Rhinella margaritifera*

At the MUSA-tower Oct 3rd. and along the jungle-sand road north of Novo Aripuaña Oct 5th.

South American Red Toad (inoff. name)*Rhinella ruber*-complex

Species belonging to the *margaritifera*-complex (JN/ML), photographed near Igarape Luci Oct 13th.



Boulenger's Poison Frog

Photos Stefan © Lithner



Red-snouted Tree Frog male

Photos Stefan © Lithner

Proboscis Toad*Rhinella proboscidea*

Along a half-overgrown forest road on the right bank of Rio Aripuaña Oct 8th.

Red-snouted Tree Frog*Scinax ruber*

Photographed on Ilha Grande Oct 14th and identified by JN/ML. These frogs are usually grey/greyish. Specimen shown is a male in mating costume.

Napo Lime Tree Frog*Sphaenorhynchus* prob. *carneus*

Taxon suggested (highly probable) from photo at Tropic Hotel Manaus Oct 16th by JN/ML.



Amazonian Horned Frog

Photo Stefan © Lithner

MOTHS and BUTTERFLIES

Taxa in alphabetic order after scientific names.

Moths and Hawkmoths

Black Witch

Ascalapa odorata

In NovoOlinda county one was photographed Oct 12th.

Sloth Moth

Chryptoses cholepi

Several found in the fur of Linnaeus Two-toed Sloth in Manaus Oct 3rd. (see above)

Empedocles' Moth

Mania Empedocles

One seen and photographed on the road at Prainha in the evening of Oct 5th.

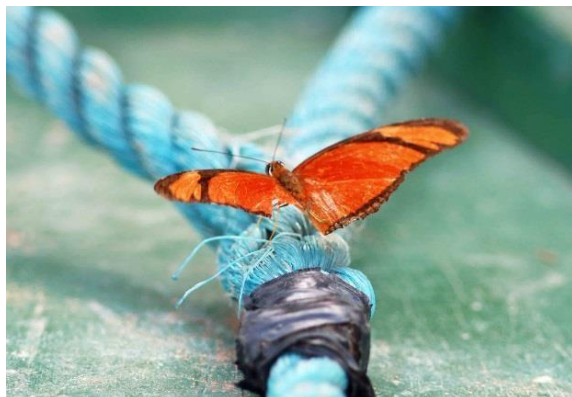
Nymphalidae

Not all of the common names are official, but occur occasionally in literature.



Ruby-spotted Swallowtail

Photo Stefan © Lithner



Iulia

Photo Stefan © Lithner



Ruby-Lineated Matalmark

Photo Stefan © Lithner



Saffron Playboy

Photo Stefan © Lithner



Creathon Daggerwing

Photo Stefan © Lithner



Empedocles Moth

Photo Stefan © Lithner

Cynosura Numberwing

Downstream from Boca do Juma at the site for Amazon Manatee Oct 7th.

Callicore cynosrura

Eunomia Numberwing

One seen near Prainha Road Oct 6th.

Callicore eunomia

Iulia

Seen several days. Photographed Oct 7th.

Dryas iulia

Antiochus Longwing

One was seen and photographed at Tropic Hotel, Manaus Oct 16.

Heliconius antiochus

Ruby-spotted Swallowtail (Cattleheart) *Heraclides (Papilio) anchisiades* Several seen on the river-bank while docking at Prainha Oct 5th.

Deidamia Morpho

Identified at least Oct 5th when revealing its ventral side, probably also Oct 6th and 7th.

Morpho Deidamia

Blue Morpho

Identified at Prainha Road Oct 6th when revealing its ventral side. Probably also present Oct 5th and 7th.

Morpho peleides

Crethon Daggerwing

Seen several times, photographed Oct 5th and 6th.

Marpesia crethon

Lineata Metalmark (inoff. name)

Stalachtis lineata One seen and photographed along the trail at Matamata Oct 11th.

Phlegia Metalmark (inoff. name)

Staclachtis phlegia One seen at lunch at Boca do Juma Oct 7th and one seen on Ilha Grande Oct 14th.

Saffron Playboy

One seen on remnants of a Peccary at Prainha Road Oct 6th.

Xanthiris flaveolata



Phlegia metalmark

Photo Stefan © Lithner



Antiochus Longwing

Photo Stefan © Lithner

PLANTHOPPER

Igapo Planthopper (IWax-tail Planthopper) *Fulgorid sp.*

Planthopper is any insect in the **infraorder** *Fulgoromorpha* in the suborder

Auchenorrhyncha and exceeding 12,500 described species worldwide (Wikipedia). This taxon was photographed in primary forest flooded several months a year along Rio Aripuana Oct 10th.

SPIDER

Brazilian Wandering Spider (not assessed)

Phoneutria nigriventer

A spider belonging to either this species or *Phoneutria fera* was photographed along the path in Estredo do Tato Manaus Puranga Consista during night walk same night.



Brazilian wandering Spider

Photo Stefan © Lithner



Planthopper (*Fulgorid* sp.)

Photo Stefan © Lithner

FISH

South American Freshwater Sting-ray

Potamothygon motoro

This fish was spotted and identified by Martin Royle Rio Aripuaña gliding in shallow water Oct 5th.

UNIDENTIFIED ANIMALS



Unid. Scorpion prob *Brotheas* sp.

Photo Stefan © Lithner



Unid. spider prob. *Ctenidae*

Photo Stefan © Lithner

Unidentified scorpion*Brotheas sp.*

Photographed along the path outside Luci Linda Oct 13th. Photos were sent to a Norwegian expert, in turn to USA and Brazil, to learn that photos did not reveal decisive details for an identification. It is a member of the family *Chactidae*. probably genus *Brotheas*.

Unidentified spiderPossibly belonging to *Ctenidae*.

Photographed egg-laying in Manaus Puranga Concista Tato Reserve Oct 15th.

Acknowledgements

I acknowledge Fiona Reid for sharing her great knowledge about bats, and hers and Marcello Marco's persistent work to catch and show us a multitude of bats. I'm also grateful for sharing Micah Reigner's knowledge about primates and birds, Jorge Bizarro Brazil for helping me with identification of nymphalides, and Johan Nylander and Mikael Lundberg, working with Swedish Museum of National History Stockholm for their help in identifying amphibians and reptiles.

Addresses and links

Report compiler: slithner@outlook.com

Photo gallery bats from this trip: https://pbase.com/stefan_lithner/brasilien_201

[Photogallery birds from this trip:](#)

https://pbase.com/stefan_lithner/birds_tropical_brazil_2019

Jon Hall's trip report: <https://www.mammalwatching.com/wp-content/uploads/SL-Rio-Aripuana-2019.pdf>

Field Guides Birding-tours trip-report:

fieldguides.com/triplistsSUBMIT/grm19p.htm

