WILDLIFE TRAVEL



#	DATE	LOCATIONS AND NOTES
1	12 th March	Fly from the UK to San Jose, and transfer to Hotel Bougainvillea on the outskirts of the city.
2	13 th March	Pre-breakfast birding around the hotel grounds, then visit to Poas Volcano before heading on to La Paz Waterfall Gardens. Continue to Selva Verde Lodge for the evening.
3	14 th March	Full day spent exploring La Selva Biological Station.
4	15 th March	Drive to Cano Blanco to board the boat for trip to Tortuguero National Park. Afternoon visit to Tortuguero village, and walk back to Mawamba Lodge.
5	16 th March	Early morning boat trip exploring the waterways of Tortuguero NP, then short walk around lodge area before lunch. Afternoon boat trip to another area of the park.
6	17 th March	Return to Cano Blanco to re-join the bus and climb up to the middle elevations of the Caribbean slope, to Rancho Naturalista.
7	18 th March	Morning spent exploring the grounds and surroundings of Rancho Naturalista, before returning to San Jose after lunch.
8	19 th March	Return flight from San Jose to the UK, via Mexico City and Madrid, arriving on 20 th .



Cover: Snowcap. Above: Poas Volcano

A gallery of photos is available at: https://www.flickr.com/photos/wildlifetravel/albums/72157713888689658

Day One: 12th March. Fly from the UK to San Jose, and transfer to Hotel Bougainvillea.

After a long but smooth flight from London Gatwick we met up with local agent Walter and also with Anthony, who would be our guide for the duration of the holiday. We drove the short distance to the Hotel Bougainvillea, situated on the outskirts of San Jose, where we introduced ourselves and enjoyed our first meal together, before retiring to bed in preparation for the excitement to come...

Day Two: 13th March. Poas Volcano. La Paz Waterfall Gardens.

We started the day by spending a wonderful hour or so before breakfast slowly exploring the picturesque gardens of the hotel. The diversity of birdlife was quite remarkable, allowing us to appreciate some of the more common birds with which we would become well-acquainted over the coming days. Great-tailed Grackle, Blue-grey Tanager, Great Kiskadee, Social Flycatcher and Clay-coloured Thrush, the rather soberly plumaged national bird of Costa Rica, were all seen, alongside colourful Baltimore Orioles, Crimson-fronted Parakeets and Summer Tanager. We noted our first hummingbird of the trip, a feisty Rufous-tailed Hummingbird, and also spent time watching a couple of Monarch butterflies as they drifted lazily from flower to flower; unlike their famous North American cousins, these Monarchs are not a migratory species.

After a breakfast of coffee, plantain and pancakes, we met our driver Jaime and made our way out through the capital city of San Jose, where Anthony told us a little about the history and culture of the country, before starting to climb up into the mountains of the Central Cordillera. As we gained height there were great views to be had looking back over the Central Valley, framed by the fiery red Poro trees *Erythrina poeppigiana*.

We continued climbing until we reached our destination, the spectacular Poas Volcano, at 2,708m. Poas is one of Costa Rica's largest and most active volcanoes, and as we approached the rim of the crater the mist cleared and we enjoyed fantastic views right down into the volcano. The smell of sulphur was in the air, and we really got a sense of nature's power here - the hard hats and safety shelter didn't particularly inspire confidence in the event of an eruption!

Thankfully, our hard hats were not put to the test as we safely retraced our steps back towards the bus, but not before pausing to enjoy some of the area's high altitude birds: Slaty Flowerpiercer, Black-cheeked Warbler, Yellow-thighed Finch and Sooty-capped Bush-Tanager were all seen, alongside Talamanca and Fiery-throated Hummingbirds. The huge leaves of *Gunnera insignis* and the pink-flowered shrubby *Monochaetum vulcanicum* were common in the understorey, together with *Centropogon gutterezii*, *Werauhia ororiensis* and a variety of ferns and other bromeliads.

A short distance away from the volcano, a roadside stop by an extensive patch of Blue Porterweed *Stachytarpheta* sp. proved to be very productive for hummingbirds, and we managed to add Volcano, Scintillant, Magenta-throated Woodstar and a beautiful Lesser Violetear to our growing list. An Eastern Meadowlark skulked in an adjacent damp field, before eventually showing itself to an appreciative audience.

It was then time to cross the mountainous ridge and begin our descent on to the Caribbean slope, and to our next destination at La Paz Waterfall Gardens. After a buffet lunch we spent the afternoon investigating the native animal enclosures (including butterflies, frogs, monkeys, sloths and big cats) and exploring the forested trails and dramatic waterfalls of this interesting site.

A hummingbird feeding station close to the restaurant was very popular with the visiting tourists, and with good reason, as it afforded lovely views of these avian jewels. Green Hermit, Violet Sabrewing and Green-crowned Brilliant jostled for position at the feeders alongside smaller species such as Black-bellied Hummingbird, Coppery-headed Emerald, Purple-throated Mountain-gem and Green Thorntail.

Reluctantly we dragged ourselves away from the hummingbirds, and whilst walking the trails we saw a number of new species including Black Guan, Ochraceous Wren, Slaty-backed Nightingale-Thrush, Blackfaced Solitaire, Blackburnian Warbler, Sooty-faced Finch, Silver-throated Tanager, Costa Rican Warbler and an elusive Tufted Flycatcher, which tried our patience as it kept returning to perch frustratingly just out of

sight. Perhaps the highlight though was a cracking male Red-headed Barbet, a fantastic bird feeding unobtrusively beside one of the footpaths.

The waterfalls themselves were very attractive, complete with an American Dipper on the boulders below the cascade, and we also experienced a stand-off with a persistent White-nosed Coati, who was determined to cross that bridge one way or another! Notable plants comprised the orange Crucifix Orchid *Epidendrum radicans* growing on the roof of one of the buildings, and the overlapping pale yellow bracts of *Calathea* sp. in the shady understorey.

After meeting up with Jaime and the bus again, we set off for the humid Caribbean lowlands, pausing *en route* for a smart Bat Falcon. The stop also produced a flock of White-collared Swifts circling at great height, and a group of White-nosed Coati by the roadside. We continued onwards and reached our lodge with time to freshen up before dinner, and to reflect on a great first day!



Above: Monarch







Top: La Paz waterfall and White-nosed Coati. **Bottom:** Red-headed Barbet

Day Three: 14th March. La Selva Biological Station.

This morning's pre-breakfast birdwatching session around the grounds of Selva Verde Lodge produced views of Black-cheeked Woodpecker, Cinnamon Becard, Scarlet-rumped Tanager and both White-crowned and Red-lored Parrots. The highlight was probably our first sighting in the wild of those quintessential neotropical birds, the toucans - both Keel-billed and Chestnut-mandibled species were seen in the trees close to the restaurant. Other interest came in the form of Variegated Squirrel and a large Green Iguana sunbathing on an upper tree branch, whilst at ground level we were distracted by Slender Brown Anole lizards and tiny Strawberry Poison Dart Frogs, with their distinctive 'blue jeans' colour pattern.

Our destination today was the famous La Selva Biological Station, established in 1968 by the Organisation for Tropical Studies (OTS). This site has been hugely influential in the advancement of tropical ecology, with many prominent scientists having studied here over the years. The species diversity of La Selva is incredibly rich, with over 2,000 plants, 125 mammals and almost 500 species of birds recorded within the reserve's 1,600 hectares of old-growth and recovering wet lowland tropical forest.

After marvelling at a Scarlet-rumped Cacique's precarious nest-building attempt on a roadside wire on our approach to the site, we met up with our guide Octavio and began by scanning the forest edge for birds from the reserve entrance. Almost immediately we saw an Osprey fly past, and a little later a Broadwinged Hawk, alongside the now familiar Black and Turkey Vultures. Boat-billed Flycatcher, Tropical Kingbird and Long-tailed Tyrant joined the Great Kiskadees and Social Flycachers on the overhead wires, White-tipped Dove and Black Seedeater foraged on the ground, and in the bushes we found Buff-throated Saltator, Palm Tanager, Bananaquit and a beautiful Golden-hooded Tanager. A flash of bright white in the treetops signalled the arrival of a gorgeous male Snowy Cotinga, quite a rare species in Costa Rica, with a global distribution ranging from northern Honduras to western Panama.

We began to walk along one of the well-maintained trails through the forest, and our bird list continued to grow with sightings of Rufous Motmot, Semiplumbeous Hawk, Slaty-tailed Trogon, White-whiskered Puffbird, Rufous-tailed Jacamar, Black-headed Tody-Flycatcher, Chestnut-sided Warbler and a soaring King Vulture. A White-collared Manakin proved frustratingly elusive, offering the briefest of views; we could certainly hear it well enough though, as the male engaged in his wing-snapping courtship display.

Dainty Small Postman butterflies glided past us, and on the forest floor we appreciated the clear trails created by Leafcutter Ants, which led us to the entrance of one of their underground nests. Amongst the leaf litter we disturbed a well-camouflaged Litter Toad, as well as several Large Forest-floor Millipedes, which were seemingly abundant alongside the trail; colour was provided by showy *Heliconia rostrata* and *Heliconia wagneriana* plants in the understorey.

A quick search of a covered outdoor seating area revealed a small colony of Lesser White-lined Bats roosting in the rafters. It was great to see these little bats at close quarters, as they patiently waited for night-time to return to start hunting for insects in the surrounding forest.

After a refreshing lunch we explored a different area of the reserve, which again resulted in plenty of excellent wildlife sightings. New birds included Gartered Trogon, Double-toothed Kite, Collared Aracari, Broad-billed Motmot, Masked Tityra, Pale-billed and Rufous-winged Woodpeckers, Great Tinamou, Prothonotary Warbler and a fleeting Long-billed Hermit, whilst mammal interest came in the form of Central American Agouti, Mantled Howler Monkey, a colony of Proboscis Bats on a building and some very confiding Collared Peccaries.

During the walk through the forest we found a handsome Green and Black Poison Dart Frog, and Octavio showed us a fearsome Bullet Ant, the largest ant in Central America, and one with an extremely painful sting. Octavio clearly enjoyed showing us some of the more dangerous animals of the forest, as he also spotted a tiny bright yellow Eyelash Pit Viper - beautiful but highly poisonous, we all appreciated it from a safe distance...

Other notable invertebrates comprised a huge Owl Butterfly and the largest damselfly species in the world, the Helicopter Damselfly, which perched on a leaf before slowly floating across a sunlit glade. This fascinating damselfly is four inches long with a wingspan in excess of six inches, and it feeds on spiders, which it plucks from their webs as it hovers in front of them.

Amongst the *Heliconias* we noted the red flowers of *Odontonema tubaeformae* by a stream and the intriguing *Psychotria poeppigiana*, sometimes known as 'Hot Lips' for obvious reasons. The enormous, buttressed Sura trees *Terminalia oblonga* were particularly impressive, many of them supporting the young leaves of herbaceous vines *Monstera* spp. closely pressed to the trunk, as were the range of palms which included the fresh reddish leaves of *Welfia regia*.

All too soon it was time to leave La Selva, so we thanked Octavio for his time and expertise and made a last short stop just outside the reserve to look for Great Green Macaw. Eventually we found a couple of birds, silhouetted against the sun some distance away, but it was still great to see them. Then after brief views of a Northern Crested Caracara we drove the short distance back to the lodge to relax before meeting up to discuss the day's many and varied sightings over a beer or two. Wildlife is all around you at Selva Verde Lodge, and after dinner a mating pair of Red-eyed Leaf Frogs and a stocky Cane Toad were seen outside the restaurant area before we returned to our rooms.





Above: Heliconia rostrata and Lesser White-lined Bat







Top: Helicopter Damselfly and Eyelash Pit-viper. **Bottom:** Collared Aracari

Day Four: 15th March. Transfer to Tortuguero National Park.

Before breakfast we took a short stroll down to the banks of the Sarapiqui River, where we found both Snowy Egret and Little Blue Heron wading in the shallows, Spotted Sandpiper and Black Phoebe amongst the rocks and three species of kingfishers flew past us (Green, Amazon and Ringed in ascending order of size). We also took time to appreciate a Scaly-breasted Hummingbird as it sat on its nest, a very brief White-necked Jacobin and a Streak-headed Woodcreeper working its way up a large Almendro tree *Dipteryx panamensis*.

After some nourishment and a welcome caffeine hit, we boarded the bus and set off eastwards towards the Caribbean coast. Along the way we spotted Bronzed Cowbird, Red-winged Blackbird, Groove-billed Ani and Red-breasted Blackbird, and we also came across a stream of northbound migrating raptors: mostly Turkey Vultures, but also including a few Broad-winged Hawks soaring with them.

A little further on Jaime stopped the bus, jumped out to pick something up and returned with a ridiculously huge Rhinoceros Beetle! Unfortunately this amazing insect had gone to meet its maker, but the specimen was still in excellent condition and we all enjoyed taking a close look as we passed it around the bus - incredible to think that beetles could grow to such a size!

The condition of the road deteriorated as we passed through extensive banana plantations on our way towards Cano Blanco, the gateway to Tortuguero National Park. We paused briefly to look at a sleepy Hoffmann's Two-toed Sloth lounging in a roadside tree, before joining the throng of tourists to find our boat which would take us into the heart of the park.

We journeyed down the Parismina river and on to the main channel before arriving at Mawamba Lodge, our base for the next two nights, in time for lunch. Birds seen from the boat included Tricoloured Heron, Green Heron, Yellow-crowned Night Heron, Northern Jacana, Anhinga, American Royal Tern, Common Black Hawk and Mangrove Swallow.

After lunch we took a short boat trip to the village of Tortuguero, and then walked back through the village and along the beach to our lodge. This small village is almost entirely dependent on eco-tourism, and we noted the many souvenir shops and various eateries as we progressed along the narrow main street. Palevented Pigeon, Tropical Kingbird, Common Tody-Flycatcher and noisy Great-tailed Grackles tried their best to distract us from an opportunity for some retail therapy, before we headed to the beach for our first views of the Caribbean Sea. Whilst walking the windswept black sand beach we encountered Magnificent Frigatebird, Brown Pelicans flying in close formation, and best of all, a rare Brown Noddy.

Back near the lodge we stopped to cheer on the Leafcutter Ants as they took their lives in their hands trying to avoid the procession of feet and bicycle wheels on the footpath, and we also found a bizarre-looking Spiny Oak Slug caterpillar, which is covered in an intricate arrangement of poisonous spines, so best to look but don't touch! A large Golden Orb-weaver spider hung in its web above our heads as we returned to our rooms for a break before meeting again in the evening for dinner and drinks...

Day Five: 16th March. Tortuguero National Park.

This morning we awoke early for a pre-breakfast boat trip around the waterways of Tortuguero National Park, where we enjoyed a memorable couple of hours cruising slowly along the tree-lined channels of this important nature reserve. In beautiful morning light we had good views of a wide range of bird species including Bare-throated Tiger-Heron, Eastern Kingbird, Summer Tanager, Osprey, Pale-billed Woodpecker, Squirrel Cuckoo, Northern Waterthrush, Swallow-tailed Kite, Great Egret and a lovely male Purple-throated Fruitcrow. We also took time to study the pendulous nests of the Montezuma Oropendola, a charismatic bird of the Caribbean lowlands with colourful markings and an amazing vocal repertoire of distinctive, gurgling calls.

Spectacled Caiman lurked in the shallows, whilst higher up Green Iguanas and Mantled Howler Monkeys lounged in the treetops. A troop of rather more active Panamanian White-faced Capuchins made its ways through the lower branches of the forest, looking for fruit or trying to flush out any large insects from their

hiding places. The wildlife highlight of the morning though came just before we were due to return to the lodge, when we spent a fantastic few minutes in the company of a hunting Neotropical River Otter. We watched quietly as it worked its way along the side of the channel, looking for any crustaceans, aquatic invertebrates or fish to snack on, and for a moment it briefly emerged on to a log to show itself more clearly. A brilliant way to finish the boat trip!

Speaking of snacking, by now it was time for breakfast - coffee and omelettes were most welcome when we arrived back at the hotel restaurant. After a short break, and to give the rain a chance to stop, we took a gentle walk along one of the trails adjacent to the lodge. Unfortunately, the confidently named 'Manakin trail' did not live up to the hype, leaving us with only very brief views of a female White-collared Manakin hiding in the undergrowth. We did however see our first Melodious Blackbird singing from a prominent perch, and had great views of Collared Aracari, Keel-billed Toucan, Black-cowled Oriole and Hoffmann's Woodpecker, a rare bird in this part of Costa Rica.

Butterflies comprised a stunning Blue Morpho, Small Postman, an elegant Thoas Swallowtail laying its eggs on the leaves of a pepper plant *Piper* sp., and an intriguing Side-striped Hairstreak, which demonstrated some remarkable deceptive behaviour. The butterfly's hindwings have two tails which are shaped like antennae, and as we watched it constantly moved its hindwings up and down so that the false antennae looked like they were twitching. This deceit, intended to trick predators into attacking the false head, was further enhanced by the fact that the butterfly also tended to walk backwards after landing!

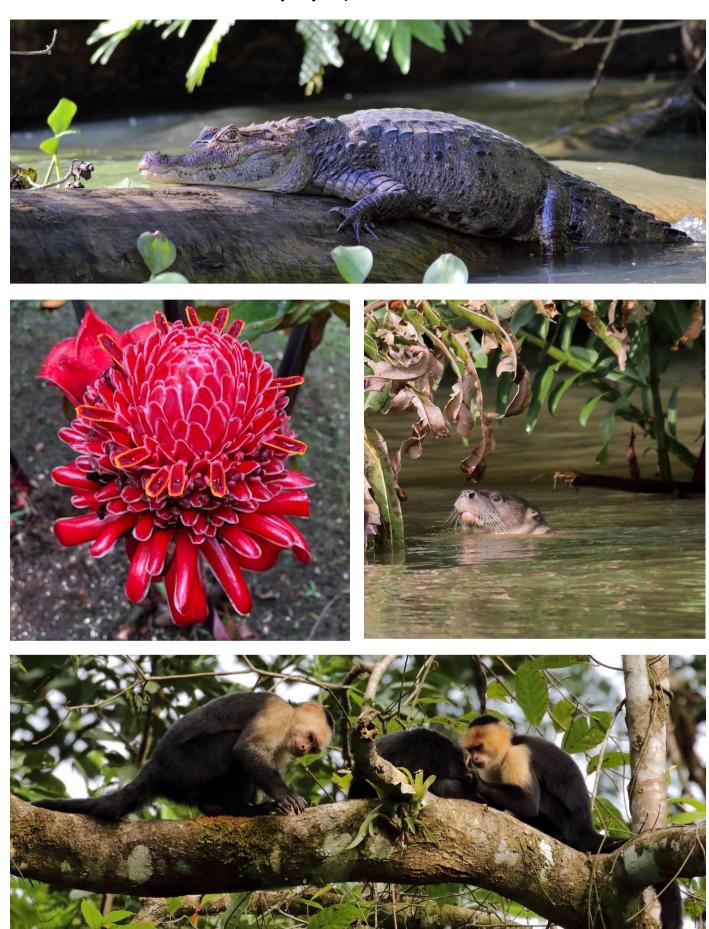
Some more impressively large Golden Orb-weavers slung their webs between the bushes, baby Wet Forest Toads crawled through the grass, and we found an interesting Stinkhorn fungus *Phallus indusiatus*; this species, with its lacy 'skirt' beneath the cap (the indusium), is an edible fungus which is commonly used in Chinese cuisine. The most noteworthy flower species of the walk was the ornamental *Etlingera elatior*, with its bright pink-red flowers on long, sturdy stalks.

After yet another delicious meal, we took our second boat trip of the day, this time to explore a different area of the park. Russet-naped Wood-Rail, American Purple Gallinule, Little Blue Heron, Northern Jacana and a large Green Iguana were seen at the side of the channel, before the boat captain somehow spotted a wonderful male Emerald Basilisk, which posed on low vegetation and was very accommodating for the photographers in the group. Nearby, a pair of Anhinga allowed a close approach, the male looking quite striking with his bright blue skin around the eye and spiky head feathers.

Mantled Howler Monkeys, Panamanian White-faced Capuchins and our first Geoffroy's Spider Monkey of the trip were all noted in the waterside trees before we found one of our key targets for the day, a pair of Sungrebe. These delightful birds are one of only three species globally in the Finfoot family, and we enjoyed watching them going about their business amongst the picturesque backdrop of lush rainforest.

As we stopped to view Green Heron and Ringed Kingfisher in the same tree, we also noticed that on the trunk of the tree there were two Proboscis Bats. Like the Lesser White-lined Bats we had seen closely at La Selva, this species also has wavy pale lines on its back, however it can be distinguished when seen well by the tufts of pale fur on the forearms (and if seen *very* well, by its longer nose). Proboscis Bats also have a tendency to roost on large tree trunks overhanging watercourses, where they can be well-camouflaged and difficult to spot - but they didn't elude us!

A rapid fly-past from a scarce Green-and-rufous Kingfisher and it was time to head back to base, with a chance to try out the swimming pool before our evening meal and customary round up of the day's key sightings.



Top: Spectacled Caiman. **Middle:** *Etlingera elatior* and Neotropical River Otter. **Bottom:** Panamanian White-faced Capuchins.

Day Six: 17th March. Transfer to Rancho Naturalista.

After breakfast we bade farewell to Mawamba Lodge and loaded the luggage on to the boat for our return trip to Cano Blanco. As we were leaving the park there was still time for Tortuguero to deliver another new mammal for the trip, and a very special one indeed! Our boat, which was cruising steadily down the main channel suddenly slowed and veered to the right, and as we all craned our necks to see what was happening, a large shape appeared at the surface of the water, with a rounded snout pointed upwards to take a breath of air. This was a mega-rare West Indian Manatee!

The population of manatees in Costa Rica is thought to be as low as only 20-100 individuals, so we were certainly extremely privileged to have this wonderful encounter. As one of the boat guides put it: "seeing a manatee in Costa Rica is as rare as drinking tequila with the Pope!".

Once back on dry land we met up with Jaime and re-familiarised ourselves with the unforgiving dirt road as we passed back through the banana plantations, pausing briefly to watch the activity at one of the processing plants. Southern Lapwing, Roadside Hawk and great views of a Laughing Falcon provided the bird interest along the way. After stopping to buy snacks in the town of Siquirres, we continued southwards, climbing into the middle elevations of the Caribbean slope to our destination at Rancho Naturalista, a scenic lodge situated at an altitude of 900 metres.

It was refreshing to escape the humidity of the lowlands as we settled in for a delicious lunch overlooking the garden, where we enjoyed some great birding whilst we ate! The hummingbird feeders attracted Green-breasted Mango, Violet Sabrewing, White-necked Jacobin, Green Hermit and the dazzling Crowned Woodnymph, whilst elsewhere in the garden we spotted Summer, Blue-grey and Golden-hooded Tanagers, Crested Guan, Grey-headed Chachalaca, Olive-backed and White-vented Euphonias, Scarlet-thighed Dacnis, Green Honeycreeper, Orange-billed Sparrow and the striking Lesson's Motmot.

Variegated and smaller Red-tailed Squirrels came to investigate the fresh fruit which had been put out, though these mammals were rather overshadowed by the appearance of a beautiful Tayra, a member of the weasel family found here in its all-dark colour form; in other parts of its range in South America these animals have much paler fur, however in Costa Rica and Panama this sleek dark colouration predominates. As we watched, a second, smaller animal emerged from the forest, joining the first Tayra in finding the promise of fruit too much to resist!

Next we checked into our rooms and enjoyed some free time relaxing in the grounds of the lodge, with some of us deciding to return to the balcony for more point-blank views of the hummingbirds. We met up again as a group before dinner, to reflect on yet another successful day, before tucking into a veritable feast of steak, potatoes and salad, washed down with a glass of wine or beer.

Fully sated, we ambled a short distance into the forest to where a moth trap had been set up, and in the glare of the bright light we could appreciate the wonderful diversity of species, with moths of all shapes and sizes attracted to the light, together with beetles, Praying Mantis, wasps and countless small flies.

A Central American Agouti was seen by a few of the group in the garden, and a Central American Woolly Opossum bounded across the track in front of other group members on their return to their rooms.









Top: Violet Sabrewing and Lesson's Motmot. **Middle:** Green Hermit. **Bottom:** White-necked Jacobins.

Day Seven: 18th March. Rancho Naturalista.

We were joined before breakfast by one of the lodge's highly knowledgeable birdwatching guides, who led us on a short walk along the access track to a spot overlooking some fruiting trees. There were wonderful views across the landscape, past the *Cecropia* trees to the distant peaks of Turrialba and Irazu volcanoes.

The birds came thick and fast, and before long we had recorded a sizeable list of species. The incessant croaking call of a Keel-billed Toucan could be heard in the trees behind us, whilst from our viewpoint we noted Golden-olive Woodpecker, Masked and Black-crowned Tityras, Gartered Trogon, Wilson's Warbler, Crimson-collared, White-lined and Bay-headed Tanagers, White-winged Becard, Baltimore Oriole and Yellow-throated Euphonia amongst a range of other species. As we walked back up the hill towards the lodge, we passed *Heliconia psittacorum*, the hairy *Heliconia vellerigera* and another red-flowered species, the shrubby *Erythrina gibbosa*.

After our energy levels had been bolstered by caffeine, eggs and rice we returned to the access track area for some more birding, and this time ventured a bit further down the hill in an attempt to locate new species. Flitting through the trees we found several warblers: Golden-winged, Stripe-crowned, Rufous-capped and Myrtle were all new for the trip, alongside Blackburnian and the boldly striped Black-and-White Warbler. Overhead a soaring kettle of Broad-winged and Swainson's Hawks indicated that the thermals were rising, and that spring migration was in full swing.

A small, straight tube emerging from a trackside telegraph pole revealed the presence of a nesting colony of Stingless Bees, a fascinating insect that can number up to ten thousand individuals in a single colony, safely located within tree cavities or other hollow wood.

At the end of our walk we reached a patch of Blue Porterweed where we focused our attention on the hummingbirds. Here we found five new species, bringing our trip total to twenty-five, which represents half of all species that occur in Costa Rica. Garden Emerald, Black-crested Coquette, Stripe-throated Hermit, Ruby-throated Hummingbird and the highly sought-after local speciality, the charming Snowcap, were all busily buzzing between the flowers, occasionally chasing each other to stake a claim on their favourite nectar source. Violet Sabrewing, Green Thorntail, Crowned Woodnymph and Rufous-tailed Hummingbird joined in on the act, leading to a vibrant display of colour and iridescence, as a couple of bright orange Julia Butterflies floated past low overhead.

As we began to retrace our steps we saw Black-striped Sparrow, Yellow-faced Grassquit, Western Buff-throated Foliage-gleaner, Smoky-brown Woodpecker, Lesser Greenlet, Slaty-capped Flycatcher and a nesting Collared Aracari before arriving back at the lodge to enjoy the garden one last time. A Tayra was seen again by some, and a White-nosed Coati put in an appearance during a carefully executed raid of the bananas. An Emerald Basilisk basked on an exposed branch, and we were also treated to our best views yet of Montezuma Oropendola, as it entered the garden to look for food.

After lunch we said goodbye to our friendly hosts at Rancho Naturalista, and reluctantly tore ourselves away from this idyllic setting to start our journey back towards San Jose. However we had not gone far before we reached a small river, where a quick scan with the binoculars revealed Green and Amazon Kingfishers, Black Phoebe, Green Heron, Green Ibis and Southern Rough-winged Swallow. It did not take long for eagle-eyed Anthony to find the star bird, a wonderfully cryptic Sunbittern, lurking amongst the boulders.

Then we made our way westwards, passing through Turrialba and Cartago before reaching the busy outskirts of the capital. An amusing incident involving an elusive green wallet helped to pass the time on the bus until we found ourselves once again at the Hotel Bougainvillea, where we enjoyed a last dinner together and discussed some of our plentiful trip highlights. We also took the opportunity to thank Anthony for all of his hard work, wildlife-spotting skills and good humour that contributed so greatly to making the holiday special. Pura Vida!

Day Eight/nine: 19th/20th March. Return to UK.

Due to the unprecedented travel restrictions created by the Coronavirus outbreak, unfortunately our itinerary had to be curtailed, and so following a long and somewhat stressful journey home via Mexico City and Madrid, we arrived back in the UK on 20th March to reflect on the many fantastic wildlife sightings we had been lucky enough to experience during our time in Costa Rica, a true naturalist's paradise!

Mike Symes, Wildlife Travel. April 2020.







Top: Heliconia vellerigera and Sungrebe. Bottom: Emerald Basalisk.

Costa Rica 2020: some highlights

ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th
MAMMALS Marsupials										
Central American Woolly Opossum	Caluromys derbianus						Χ			
Sloths, Anteaters & Armadillos										
Hoffmann's Two-toed Sloth	Choloepus hoffmanni				Χ					
Nine-banded Armadillo	Dasypus novemcinctus		Χ							
Bats										
Proboscis Bat	Rhynchonycteris naso			Χ		Χ				
Lesser White-lined Bat	Saccopteryx leptura			Х						
Primates										
Panamanian White-faced Capuchin	Cebus (capucinus) imitator					Χ				
Mantled Howler Monkey	Alouatta palliata			Χ	Χ	Χ				
Geoffroy's Spider Monkey	Ateles geoffroyi					Χ				
Rodents and Rabbits										
Variegated Squirrel	Sciurus variegatoides		Χ	Χ	Χ		Χ	Χ		
Red-tailed Squirrel	Sciurus granatensis						Χ	Χ		
Central American Agouti	Dasyprocta punctata			Χ			Χ			
Carnivores	<u> </u>									
White-nosed Coati	Nasua narica		Χ					Χ		
Tayra	Eira Barbara						Χ	Χ		
Neotropical River Otter	Lontra longicaudis					Χ				
Manatees										
West Indian Manatee	Trichechus manatus						Χ			
Ungulates										
Collared Peccary	Pecari tajacu			Χ						

ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th
REPTILES AND AMPHIBIANS										
Wet Forest Toad	Incilius melanochlorus					Χ				
Litter Toad	Rhaebo haematiticus			Χ						
Cane Toad	Rhinella marina			Χ						
Red-eyed Leaf Frog	Agalycnis callidryas			Χ						
Strawberry Poison Dart Frog	Oophaga pumilio			Χ						
Green and Black Poison Dart Frog	Rana venenosa verdinegra			Χ						
Black River Turtle	Rhinoclemmys funerea			Χ	Χ					
Spectacled Caiman	Caiman crocodylus					Χ				
Tropical House Gecko	Hemidactylus frenatus		Χ	Χ	Χ	Χ				
Green Iguana	Iguana iguana			Χ	Χ	Χ	Χ			
Central American Junglerunner	Ameiva festiva			Χ						
Slender Brown Anole	Anolis (Norops) limifrons			Χ	Χ	Χ	Χ			
Brown Basilisk	Basaliscus vittatus			Χ						
Emerald Basilisk	Basiliscus plumifrons				Χ	Х		Χ		
Eyelash Pit Viper	Bothriechis schlegelii			Χ						

ENGLISH NAME	SCIENTIFIC NAME	12 th	13^{th}	14^{th}	15 th	16^{th}	17 th	18^{th}	19 th	20 th
SELECTED INVERTEBRATES										
Blue Morpho	Morpho helenor					Χ	Χ			
Owl Butterfly	Caligo atreus dionysos			Χ						
Thoas Swallowtail	Heraclides thoas autocles					Χ				
Monarch Butterfly	Danaus plexippus		Χ							
Banded Peacock	Anartia fatima				X			Χ		
Small Postman	Heliconius erato petiverana			Χ		Χ				
Side-striped Hairstreak	Arawacus lincoides					Χ				
Julia Butterfly (Orange Longwing)	Dryas iulia							Χ		
Helicopter Damselfly	Megaloprepus caerulatus			Χ						
Termite	Nasutitermes spp.			Ν						
Rhinoceros Beetle	Megasoma occidentalis				Δ					
Stingless Bee	Trigona spp.							Χ		
Leafcutter Ant	Atta cephalotes			Χ	X					
Bullet Ant	Paraponera clavata			Χ						
Large Forest-floor Millipede	Nyssodesmus python			Χ						
Golden Orb-weaver	Nephila clavipes				Χ	Χ	Χ			
Spiny-backed Orb-weaver	Gasteracantha cancriformis				Χ	Χ				
Spiny-bodied Spider	Micrathena breviceps							Χ		

N = Nest D = Dead



Above: Mantled Howler Monkey.

ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	1 4 th	15th	16^{th}	17th	18 th	10th
BIRDS									
ORDER STRUTHIONIFORMS									
Family Tinamidae (Tinamous)									
Great Tinamou	Tinamus major			Χ					
ORDER GALLIFORMES									
Family Cracidae (Guans, Cura									
Black Guan	Chamaepetes unicolor		Х						
Crested Guan	Penelope purpurascens						Χ		
Grey-headed Chachalaca	Ortalis cinereiceps						Χ	Χ	
ORDER EURYPYGIFORMES									
Family Eurypygidae (Sunbitte								V	
Sunbittern ORDER COLUMBIFORMES	Eurypyga helias							Χ	
Family Columbidae (Pigeons a	and Doyes)								
Rock Dove/Feral Pigeon	Columba livia		Х	Χ	Χ		Χ	Χ	
Pale-vented Pigeon	Patagioenas cayennensis	++	^	^	X		Λ	^	
Red-billed Pigeon	Patagioenas flavirostris	++	Х		^		Χ	Χ	
Short-billed Pigeon	Patagioenas nigrirostris	+ +	^			Χ	^	^	
White-winged Dove	Zenaida asiatica	H	Χ			/\			
Ruddy Ground-dove	Columbina talpacoti	T					Χ		
White-tipped Dove	Leptotila verreauxi	$\dagger \dagger$		Χ			Х	Χ	
ORDER CAPRIMULGIFORMES	·								Ī
Family Apodidae (Swifts)									
White-collared Swift	Streptoprocne zonaris		Χ					Χ	
Grey-rumped Swift	Chaetura cinereiventris			Χ	Χ	Χ	Χ		
Vaux's Swift	Chaetura vauxi		Х						
Family Trochilidae (Humming	birds)								
Green Hermit	Phaethornis guy		Х				Χ	Χ	
Stripe-throated Hermit	Phaethornis striigularis							Χ	
Long-billed Hermit	Phaethornis longirostris			Χ					
Violet Sabrewing	Campylopterus hemileucurus		Х				Χ	Χ	
Fiery-throated Hummingbird	Panterpe insignis		Χ						
Talamanca Hummingbird	Eugenes spectabilis		Х						
Green-crowned Brilliant	Heliodoxa jacula	$\ \cdot\ $	Х		.,			Χ	
Scaly-breasted Hummingbird	Phaeochroa cuvieri	$\vdash \vdash$	-		X		17	1/	
White-necked Jacobin	Florisuga mellivora	$\vdash \vdash$	_		Χ		Χ	X	
Garden Emerald	Chlrostilbon assimilis	$\vdash \vdash$	Х	_	v	V	V	X	
Rufous-tailed Hummingbird	Amazilia tzacatl Thalurania colombica	\vdash	^	Χ	Χ	Χ	X	X	
Crowned Woodnymph Green-breasted Mango		$\vdash \vdash$	\dashv				X	X	
Ruby-throated Hummingbird	Anthracothorax prevostii Archilochus colubris	$\vdash \vdash$	-				۸	X	
Brown Violetear	Colibri delphinae	++	Х					^	
Lesser Violetear	Colibria (thalassinus) cyanotus		<u>^</u>						
Black-bellied Hummingbird	Eupherusa nigriventris		<u>^</u>						
Coppery-headed Emerald	Elvira cupreiceps		<u>^</u>						
Purple-throated Mountain-gem	Lampornis calolaemus		X						
Black-crested Coquette	Lophornis helenae	\dagger	^					Χ	
Green Thorntail	Discosura conversii	\dagger	Х					Х	
Snowcap	Microchera albocoronata	T	-					Х	
Magenta-throated Woodstar	Calliplhox bryantae	\dagger	Χ					- `	
Scintillant Hummingbird	Selasphorus scintilla		Х						
			- 1						

ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	14世	15⁴	16^{th}	174	18₫	
Family Cuculidae (Cuckoos)	Diava cayana					V		V	
Squirrel Cuckoo	Piaya cayana				V	\ \ \ \	V	Х	H
Groove-billed Ani	Crotophaga sulcirostris				Χ	Χ	Χ		
ORDER GRUIFORMES									
Family Heliornithidae (Finfoot						V			F
Sungrebe	Heliornis fulica					Χ			
Family Rallidae (Rails and Cra	Aramides albiventris					V			F
Russet-naped Wood-Rail						X			╀
American Purple Gallinule	Porphyrula martinica					Χ			
ORDER PELECANIFORMES	and Consubilla)								
Family Threskiornithidae (Ibis				V				V	F
Green Ibis	Mesembrinibis cayanensis			Χ				Χ	
Family Ardeidae (Herons)	Tievies as a svies a ve					V	V		
Bare-throated Tiger-Heron	Tigrisoma mexicanum				v	X	Х		+
Yellow-crowned Night Heron	Nyctanassa violacea				X			V	L
Green Heron	Butorides virescens		v	v	X		\ <u>\</u>	X	+
Western Cattle Egret	Bubulcus ibis		Х	Χ	X		X	Х	+
Little Blue Heron	Egretta caerulea				X				H
Snowy Egret	Egretta thula				X	X	X		H
Tricoloured Heron	Egretta tricolor				X	X	X		+
Great Egret	Ardea alba				X	Χ	Χ		H
Great Blue Heron	Ardea herodias				Χ				
Family Pelecanidae (Pelicans)					V	V			F
Brown Pelican	Pelecanus occidentalis				Х	Χ			
ORDER SULIFORMES	1-3								
Family Frigatidae (Frigatebird	-				V	V			F
Magnificent Frigatebird	Fregata magnificens				Χ	Χ			
Family Phalacrocoracidae (Co					V				F
Neotropic Cormorant	Phalacrocorax brasilianus				X				
Family Anhingidae (Darters)	Anhings subjects				V	V	V		F
Anhinga ORDER CHARADRIIFORMES	Anhinga anhinga				X	Χ	Χ		
	a and Assaulta\								
Family Recurvirostridae (Stilts					V				F
Black-necked Stilt	Himantopus mexicanus				X				
Family Charadriidae (Plovers) Southern Lapwing	Vanellus chilensis						Χ		F
Family Jacanidae (Jacanas)	Variellus Crillerisis						Λ		
Northern Jacana	Jacana spinosa				V	Χ	V		F
Family Scolopacidae (Sandpip					^	Λ	Λ		
Hudsonian Whimbrel	Numenius hudsonicus						Χ		F
Spotted Sandpiper	Actitis macularius			Х	Х		Λ		H
Sanderling	Calidris alba			_	^	-	Λ		H
Family Laridae (Gulls)	Санан загра						Λ		
Laughing Gull	Leucophaeus atricilla				Χ		Χ		f
Ring-billed Gull	Larus delawarensis				X		^		H
Family Sternidae (Terns)	Lai นิว นิติเลพลเติ เรเรเร				٨				
American Royal Tern	Thalasseus maximus				Χ	Χ	Χ		f
Cabot's Tern	Thalasseus maximus Thalasseus acuflavidus				X	^	^		H
Brown Noddy	Anous stolidus				X				H
ORDER STRIGIFORMES	Allous Stollaus				Λ		<u> </u>		
Family Strigidae (Owls)									
Tanning Sungidae (OWIS)	21								f
Central American Pygmy-owl	Glaucidium griseiceps	1		Н					

ENGLISH NAME King Vulture Sarcoamphus papa King Vulture Cathartes aura X X X X X X X X X X X X X X X X X X X	ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	4 th	5th	e _{th}	1 ₽	8th	9th	Oth
Turkey Vulture			1	1		1	1	1	1	1	7
Black Vulture Coragyps atratus X X X X X X X X X											
ORDER ACCIPTRIFORMES Family Pandionidae (Ospreys) Western Osprey Pandion haliaetus Western Osprey Pandion haliaetus X											
Western Osprey		Coragyps atratus		Х	Х	Х	Х	Х	Х		
Western Osprey Pandlon haliaetus X											
Family Accipitridae (Hawks and Eagles) Swallow-tailed Kite Elanoides forficatus Double-toothed Kite Harpagus bidentatus X		Developed by the state of			V		V				
Swallow-tailed Kite Elanoides forficatus X X Double-toothed Kite Harpagus bidentatus X X Serriplumbeous Hawk Leucopternis semiplumbeus X X Common Black Hawk Buteogalius anthracinus X X X Roadside Hawk Ruppornis magnirostris X X X Grey Hawk Buteo plagiatus X X X Broad-winged Hawk Buteo platyterus X X X Swainson's Hawk Buteo platyterus X X X ORDER TROGONIFORMES Family Trogonidae (Trogons and Quetzals) Silaty-tailed Trogon Trogon massena X X Gartered Trogon Trogon massena X X Gartered Trogon Trogon caligatus X X ORDER CORACITORMES Family Momotidae (Motmots) Lesson's Motmot Momotus lessonii X X Broad-billed Motmot Electron platyrhynchum X Family Alcedinidae (Kingfishers Megaceryle torquata X X X Amazon Kingfisher Chloroceryle amazona X X X Green-and-rufous Kingfisher Chloroceryle amazona X X X Family Galbulidae (Jacamars) Rufous tailed Jacamar Galbula ruficauda Tamily Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis X X Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X Family Raphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X Family Picidae (Woodpecker Colaptes rubiginosus X X X Family Picidae (Woodpecker Colaptes rubiginosus X X X Smoky-brown Woodpecker Colaptes rubiginosus X X Smoky-brown Woodpecker Campephilus guatemalensis X X Double Positracidae (Palcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X X Double Positracidae (Palcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X X Double Positracidae (Palcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X X Double Positracidae (Palcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X X Doub					Χ		Χ				
Double-toothed Kite	Family Accipitridae (Hawks and Ea						V				
Semiplumbeous Hawk Common Black Hawk Roadside Hawk Roadside Hawk Buteogalius anthracinus Grey Hawk Broad-winged Hawk Buteo platypterus Swainson's Hawk Buteo platypterus With a buteout a buteo platypterus With a buteout a bu										\dashv	
Common Black Hawk Roadside Hawk Rupomis magnirostris Roadside Hawk Rupomis magnirostris Roadside Hawk Rupomis magnirostris Road-winged Hawk Buteo plagiatus Road-winged Hawk Buteo plagiatus Road-winged Hawk Buteo plagiatus Road-winged Hawk Buteo plagiatus Road-winged Hawk Rupomis magnirostris Road-winged Hawk Rupomis magnirostris Road-winged Hawk Rupomis magnirostris Rufous Magnirostris Ramily Trogonidae (Trogons and Quetzals) Slaty-tailed Trogon Road-group Road-group Road-Billed Togon Road-Billed Motmot Rufous Motmot Rufous Motmot Rufous Motmot Ramily Alcedinidae (Kingfishers) Ringed Kingfisher Road-Billed Motmot Road-Billed							Х			_	
Roadside Hawk Rupornis magnirostris X					Χ	V	V			_	
Grey Hawk Broad-winged Frogons and Relations and Relationship Hawk Broad-winged Howers Broad-Bro		<u> </u>					Χ	V		_	
Broad-winged Hawk Swainson's Hawk Salay-tailed Trogon and Quetzals) Slaty-tailed Trogon Gartered Trogon Trogon massena Trogon caligatus Tr		_				Χ		Χ	V		
Swainson's Hawk ORDER TROGONIFORMES Family Trogonidae (Trogons and Quetzals) Slaty-tailed Trogon Gartered Trogon ORDER CORACIIFORMES Family Momotidae (Motmots) Lesson's Motmot Rufous Motmot Broad-billed Motmot Broad-billed Motmot Family Alcedinidae (Kingfishers) Ringed Kingfisher Amazon Kingfisher Amazon Kingfisher Green-Ringfisher Chloroceryle amazona Green-and-rufous Kingfisher Chloroceryle inda Green-and-rufous Kingfisher Family Galbulidae (Jacamars) Rufous-tailed Jacamar Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X X X X X X X X X X X X X X X X X				V	V	V			_		
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Salay-tailed Trogon Trogon massena X X X X X X X X X		Buteo swainsoni							Χ		
Slaty-tailed Trogon Trogon massena X X X X X X X X X											
Gartered Trogon Trogon caligatus X X X ORDER CORACTIFORMES Family Momotidae (Motmots) Lesson's Motmot Momotus lessonii X X Broad-billed Motmot Electron platyrhynchum X Broad-billed Kingfishers Megaceryle torquata X X X Green Kingfisher Chloroceryle amazona X X X Green Kingfisher Chloroceryle americana X X X Green Kingfisher Chloroceryle inda X X Family Galbulidae (Jacamars) Rufous-tailed Jacamar Galbula ruficauda X Family Bucconidae (Puffbirds) Macaloptila panamensis X Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X Keel-billed Toucan Ramphastos swainsonii X X X Keel-billed Toucan Ramphastos suffuratus X X X Family Capitonidae (American Barbets) Red-headed Barbet Eubucco bourcierii X Family Picidae (Woodpecker Eubucco bourcierii X Hoffmann's Woodpecker Melanerpes pucherani X X Smoky-brown Woodpecker Melanerpes pucherani X X Rufous-winged Woodpecker Picoides fumigatus X X Rufous-winged Woodpecker Colaptes rubiginosus X X Rufous-winged Woodpecker Campephilus guatemalensis X X Pale-billed Woodpecker Campephilus guatemalensis X Rufous-winged Woodpecker C					V						
ORDER CORACTIFORMES Family Momotidae (Motmots) Lesson's Motmot											
Lesson's Motmot Momotus lessonii X X X Rufous Motmot Baryphthengus martii X X X Broad-billed Motmot Electron platyrhynchum X X X X X X X X X		Trogon caligatus			Χ				Χ		
Rufous Motmot Baryphthengus martii X N N N N N N N N N N N N N N N N N N											
Broad-billed Motmot Family Alcedinidae (Kingfishers) Ringed Kingfisher Amazon Kingfisher Amazon Kingfisher Chloroceryle amazona Green Kingfisher Chloroceryle amazona Green-and-rufous Kingfisher Chloroceryle inda Family Galbulidae (Jacamars) Rufous-tailed Jacamars Rufous-tailed Jacamar Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis Chestnut-mandibled Toucan Keel-billed Toucan Ramphastos swainsonii Keel-billed Toucan Ramphastos suffuratus X X X X Family Capitonidae (American Barbets) Red-headed Barbet Family Picidae (Woodpeckers) Black-cheeked Woodpecker Black-cheeked Woodpecker Golden-olive Woodpecker Smoky-brown Woodpecker Picoides fumigatus Rufous-winged Woodpecker Rufous-winged Woodpecker Picoides fumigatus Rufous-winged Woodpecker Ruf	Lesson's Motmot	Momotus lessonii						Χ	Χ		
Family Alcedinidae (Kingfishers) Ringed Kingfisher Megaceryle torquata X X X Amazon Kingfisher Chloroceryle amazona X X X Green Kingfisher Chloroceryle americana X X X Green-and-rufous Kingfisher Chloroceryle inda X X X Family Galbulidae (Jacamars) Rufous-tailed Jacamar Galbula ruficauda X Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis X Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii X X X Keel-billed Toucan Ramphastos sulfuratus X X X Collared Aracari Pteroglossus torquatus X X X Family Capitonidae (American Barbets) Red-headed Barbet Eubucco bourcierii X Family Picidae (Woodpeckers) Black-cheeked Woodpecker Melanerpes pucherani X X X Hoffmann's Woodpecker Melanerpes hoffmannii X X X Golden-olive Woodpecker Picoides fumigatus X X Rufous-winged Woodpecker Picoides fumigatus X X Rufous-winged Woodpecker Campephilus guatemalensis X X ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X X Northern Crested Caracara Caracara cheriway Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)	Rufous Motmot	Baryphthengus martii			Χ						
Ringed Kingfisher Amazon Kingfisher Chloroceryle amazona Green Kingfisher Chloroceryle americana Green-rand-rufous Kingfisher Chloroceryle americana Chloroceryle americana Green-rand-rufous Kingfisher Chloroceryle inda Family Galbulidae (Jacamars) Rufous-tailed Jacamar Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii Keel-billed Toucan Ramphastos sulfuratus Collared Aracari Pteroglossus torquatus Red-headed Barbet Eubucco bourcierii X Red-headed Barbet Family Picidae (Woodpeckers) Black-cheeked Woodpecker Hoffmann's Woodpecker Melanerpes pucherani X X X X X X X X X X X X X	Broad-billed Motmot	Electron platyrhynchum			Χ						
Ringed Kingfisher Amazon Kingfisher Chloroceryle amazona Green Kingfisher Chloroceryle americana Green-rand-rufous Kingfisher Chloroceryle americana Chloroceryle americana Green-rand-rufous Kingfisher Chloroceryle inda Family Galbulidae (Jacamars) Rufous-tailed Jacamar Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis Family Ramphastidae (Toucans) Chestnut-mandibled Toucan Ramphastos swainsonii Keel-billed Toucan Ramphastos sulfuratus Collared Aracari Pteroglossus torquatus Red-headed Barbet Eubucco bourcierii X Red-headed Barbet Family Picidae (Woodpeckers) Black-cheeked Woodpecker Hoffmann's Woodpecker Melanerpes pucherani X X X X X X X X X X X X X	Family Alcedinidae (Kingfishers)										
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Rufous-tailed Jacamar Galbula ruficauda X	Green Kingfisher	Chloroceryle americana				Χ	Χ		Χ		
Rufous-tailed Jacamar Family Bucconidae (Puffbirds) White-whiskered Puffbird Macaloptila panamensis Chestnut-mandibled Toucan Ramphastos swainsonii Keel-billed Toucan Ramphastos sulfuratus Collared Aracari Pteroglossus torquatus Family Capitonidae (American Barbets) Red-headed Barbet Fubucco bourcierii Ramily Picidae (Woodpeckers) Black-cheeked Woodpecker Melanerpes pucherani Hoffmann's Woodpecker Melanerpes hoffmannii X X X X X X X X X X X X X X X X X	Green-and-rufous Kingfisher	Chloroceryle inda					Χ				
White-whiskered Puffbird Macaloptila panamensis X	Family Galbulidae (Jacamars)										
White-whiskered Puffbird		Galbula ruficauda			X						
Chestnut-mandibled Toucan Ramphastos swainsonii X X X X X X X X X	Family Bucconidae (Puffbirds)										
Chestnut-mandibled Toucan Ramphastos swainsonii Keel-billed Toucan Ramphastos sulfuratus Collared Aracari Pteroglossus torquatus Red-headed Barbet Family Picidae (Woodpeckers) Black-cheeked Woodpecker Hoffmann's Woodpecker Golden-olive Woodpecker Rufous-winged Woodpecker Rufous-winged Woodpecker Pale-billed Woodpecker Pale-billed Woodpecker Campephilus guatemalensis Northern Crested Caracara Ramphastos swainsonii X X X X X X X X X X X X X X X X X X	White-whiskered Puffbird	Macaloptila panamensis			X						
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Red-headed Barbet Eubucco bourcierii X X X X X X X X X	Keel-billed Toucan	Ramphastos sulfuratus						Χ	_		
Red-headed Barbet Family Picidae (Woodpeckers) Black-cheeked Woodpecker Hoffmann's Woodpecker Golden-olive Woodpecker Smoky-brown Woodpecker Rufous-winged Woodpecker Pale-billed Woodpecker Pale-billed Woodpecker Campephilus guatemalensis Campephilus guatemalensis Northern Crested Caracara Bat Falcon GRDER PSITTACIFORMES Family Psittacidae (Parrots)	Collared Aracari	Pteroglossus torquatus			Χ		Χ		Χ		
Black-cheeked Woodpecker Melanerpes pucherani X X X Woodpecker Melanerpes hoffmannii X X X X Woodpecker Melanerpes hoffmannii X X X X Woodpecker Colaptes rubiginosus X X X Woodpecker Picoides fumigatus X X Woodpecker Picoides fumigatus X X Woodpecker Piculus simplex X Woodpecker Piculus simplex X Woodpecker Piculus simplex X Woodpecker Campephilus guatemalensis X X Woodpecker Campephilus guatemalensis X X Woodpecker Campephilus guatemalensis X Woodpecker Woodpecker Piculus simplex X Woodpecker Woodpecker Woodpecker Piculus simplex X Woodpecker Woo	Family Capitonidae (American Bar	bets)									
Black-cheeked Woodpecker Hoffmann's Woodpecker Golden-olive Woodpecker Smoky-brown Woodpecker Rufous-winged Woodpecker Picoides fumigatus Rufous-winged Woodpecker Piculus simplex Pale-billed Woodpecker Campephilus guatemalensis ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Northern Crested Caracara Caracara cheriway Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)		Eubucco bourcierii		Χ							
Hoffmann's Woodpecker Golden-olive Woodpecker Smoky-brown Woodpecker Rufous-winged Woodpecker Pale-billed Woodpecker Pale-billed Woodpecker Campephilus guatemalensis CRDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Northern Crested Caracara Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)	Family Picidae (Woodpeckers)	_									
Golden-olive Woodpecker Smoky-brown Woodpecker Rufous-winged Woodpecker Pale-billed Woodpecker Pale-billed Woodpecker Campephilus guatemalensis ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Northern Crested Caracara Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)	· ·				Χ				Χ		
Smoky-brown Woodpecker Rufous-winged Woodpecker Piculus simplex Pale-billed Woodpecker Campephilus guatemalensis ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Northern Crested Caracara Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)	Hoffmann's Woodpecker	,		Χ			Χ				
Rufous-winged Woodpecker Piculus simplex Pale-billed Woodpecker Campephilus guatemalensis ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Herpetotheres cachinnans Northern Crested Caracara Caracara cheriway Bat Falcon Falco rufigularis ORDER PSITTACIFORMES Family Psittacidae (Parrots)	Golden-olive Woodpecker	Colaptes rubiginosus									
Pale-billed Woodpecker ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Northern Crested Caracara Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots)									Χ		
ORDER FALCONIFORMES Family Falconidae (Falcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X Northern Crested Caracara Caracara cheriway X Bat Falcon Falco rufigularis X ORDER PSITTACIFORMES Family Psittacidae (Parrots)											
Family Falconidae (Falcons and Caracaras) Laughing Falcon Herpetotheres cachinnans X Northern Crested Caracara Caracara cheriway X Bat Falcon Falco rufigularis X ORDER PSITTACIFORMES Family Psittacidae (Parrots)		Campephilus guatemalensis			Χ		Χ				
Laughing Falcon Northern Crested Caracara Bat Falcon ORDER PSITTACIFORMES Family Psittacidae (Parrots) Herpetotheres cachinnans X X X X Caracara cheriway X X V V V V V V V V V V V		racaras)									
Northern Crested Caracara	-							Χ			
Bat Falcon Falco rufigularis X ORDER PSITTACIFORMES Family Psittacidae (Parrots)		•			Х			/ (
ORDER PSITTACIFORMES Family Psittacidae (Parrots)		,		Х						\neg	
	ORDER PSITTACIFORMES	. a.co i arigaiario		^							
Great Green Macaw Ara ambiguus X X		4									
	Great Green Macaw	Ara ambiguus			Χ						

ENGLISH NAME	SCIENTIFIC NAME	12^{th}	13^{th}	14 th	15 th	16^{th}	17th	18^{th}	19th
Crimson-fronted Parakeet	Aratinga finschi		Х	Х	Х			Х	
Olive-throated Parakeet	Aratinga nana						Χ		
White-crowned Parrot	Pionus senilis	Ħ		Χ			Χ	Χ	
Red-lored Parrot	Amazona autumnalis			Χ		Х			
Mealy Parrot	Amazona farinosa			Х		Х			
ORDER PASSERIFORMES	,								
Family Furnariidae (Ovenbirds)									
Sub-family Furnariinae (Ovenbi	rds)								
Western Buff-throated Foliage-glear								Х	_
Twestern built tillouted Follage glear	cervinigularis								
(Western) Plain Xenops	Xenops (genibarbis) mexicanus			Х					
Sub-family Dendrocolaptinae (V									
Plain-brown Woodcreeper	Dendrocincla fuliginosa			Х					_
Streak-headed Woodcreeper	Lepidocolaptes souleyetii	\vdash			Χ		Χ	Х	
Cocoa Woodcreeper	Xiphorhynchus susurrans	\vdash		Χ			_	^	
Family Pipridae (Manakins)	Alphornyrichus susurrans			^					
White-collared Manakin	Manacus candei			Χ		V	Χ	V	
Family Cotingidae (Cotingas)	manacus canuei			^		^	^	^	
	Carpodectes nitidus			Χ					
Snowy Cotinga Purple-throated Fruitcrow	,	+		^	_	Χ			
	Querula purpurata					^			
Family Tityridae (Tityras, Becar	us and ames)								
Sub-family Tityrinae	Tita wa in a violen							V	
Black-crowned Tityra	Tityra inquisitor	-		V				X	
Masked Tityra	Tityra semifasciata	\vdash		Χ	_			X	
White-winged Becard	Pachyramphus polychopterus	1		\ <u>\</u>	\ <u>\</u>			Χ	
Cinnamon Becard	Pachyramphus cinnamomeus			Χ	Χ				
Family Tyrannidae (Tyrant Flyca	atchers)								
Sub-family Pipromorphinae (My								\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Slaty-capped Flycatcher	Leptopogon superciliaris	-						X	
Common Tody-Flycatcher	Todirostrum cinereum	\vdash		X	Χ	Χ	Χ	Χ	
Black-headed Tody-Flycatcher	Todirostrum nigriceps			Χ					
Sub-family Elaeninnae (Tyrannı									
Yellow-bellied Elaenia	Elaenia flavogaster						Χ		
Greenish Elaenia	Myiopagis viridicata							Χ	
Sub-family Tyranninae (Tyrant									
Piratic Flycatcher	Legatus leucophaius			Χ				Χ	
Great Kiskadee	Pitangus sulphuratus	Ш	Χ	Χ	Х	Χ	Χ	Χ	
(Northern) Boat-billed Flycatcher	Megarhynchus (pitangua)			Χ				Х	
	mexicanus	Ш			<u> </u>				
Sulphur-bellied Flycatcher	Myiodynastes luteiventris	Ш		Χ	<u> </u>			Χ	
Social Flycatcher	Myiozetetes similis	Ш	Χ	Χ	Χ	Χ	Χ	Χ	
Grey-capped Flycatcher	Myiozetetes granadensis			Χ				Χ	
White-ringed Flycatcher	Conopias albovittatus			Χ					
Tropical Kingbird	Tyrannus niveigularis			Χ	Χ		Χ	Χ	
Eastern Kingbird	Tyrannus tyrannus					Χ			
Great Crested Flycatcher	Myiarchus crinitus				L	Χ			_
Dusky-capped Flycatcher	Myiarchus tubericulifer			Χ					
Sub-family Fluvicolinae (Fluvico									
Long-tailed Tyrant	Colonia colonus			Χ					_
Tufted Flycatcher	Mitrephanes phaeocercus		Χ						
	Sayornis nigricans		Ħ		Х			Χ	_
Black Phoebe	Sayorns maricans							1	
Black Phoebe Tropical Pewee	Contopus cinereus						Χ		

ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	14 th	15 th	16 th	17 th	18^{th}	19 th	20 th
Family Corvidae (Crows) Brown Jay	Cyanacaray maria		V				Χ	V		
Family Hirundinidae (Swallows)	Cyanocorax morio		Χ				^	X		
Blue-and-white Swallow	Pygochelidon cyanoleuca		Χ					Χ		
Mangrove Swallow	Tachycineta albilinea		^		Х	Х	Χ	^		
Northern Rough-winged Swallow	Stelgidopteryx serripennis			Χ	^	^	^	Χ		
Southern Rough-winged Swallow	Stelgidopteryx ruficollis			^				Χ		
Family Troglodytidae (Wrens)	Steiglaopteryx rancoms							\		
Southern House Wren	Troglodytes (aedon) musculus		Χ							
Ochraceous Wren	Troglodytes ochraceus		X							
Band-backed Wren	Campylorhynchus zonatus		, ·	Χ						
Rufous-backed Wren	Campylorhynchus capistratus		Х							
Black-throated Wren	Pheugopedius atrogularis		,	Χ						
Stripe-breasted Wren	Cantorhcilus thoracicus			X						
Family Cinclidae (Dippers)				, (
American Dipper	Cinclus mexicanus		Χ							
Family Turdidae (Thrushes)										
Black-faced Solitaire	Myadestes melanops		Χ							
Slaty-backed Nightingale-Thrush	Catharus fuscater		Х							
Clay-coloured Thrush	Turdus grayi			Х	Х	Х	Х	Х		
Family Fringillidae (Finches)	The same gray.									
Olive-backed Euphonia	Euphonia gouldi						Χ	Χ		
Yellow-throated Euphonia	Euphonia hirudinacea							Χ		
White-vented Euphonia	Euphonia minuta						Χ			
Family Passerellidae (New World										
Black-striped Sparrow	Arremonops conirostris							Χ		
Dotted (Common) Bush-Tanager	Chlorospingus (ophthalmicus)		Х							
	punctulatus									
Sooty-capped Bush-Tanager	Chlorospingus pileatus		X							
Sooty-faced Finch	Arremon crassirostris		Χ							
Orange-billed Sparrow	Arremon aurantiirostris		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Χ			Χ	Χ		
Yellow-thighed Finch	Pselliophorus tibialis		X							
Rufous-collared Sparrow	Zonotrichia capensis		Χ							
Family Icteridae (New World Bla			1		V	1				
Red-winged Blackbird	Agelaius phoeniceus				X		\ <u>'</u>			
Red-breasted Blackbird	Sturnella militaris		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Х		Χ			
Eastern Meadowlark	Sturnella magna		Χ			\ <u>\</u>		· ·		
Melodious Blackbird	Dives dives		V	V	V	X	V	X		
Great-tailed Grackle	Quiscalus mexicanus		Х	X	X	Х	Χ	Χ		
Bronzed Cowbird	Molothrus aeneus			Х	Х			Χ		
Giant Cowbird	Molothrus oryzivorus			Х	Х	_		۸		
Black-cowled Oriole	Icterus prosthemelas		Х	Λ	Λ.	Χ				
Orchard Oriole	Icterus spurius		Х	~	Х		Χ	Χ		
Baltimore Oriole	Icterus galbula		Λ	X	Λ.		۸	Λ		
Scarlet-rumped Cacique	Cacicus microrhynchus			X		V	V	V		
Chestnut-headed Oropendola	Psarocolius wagleri			X	V	X	X			
Montezuma Oropendola Family Parulidae (New World Wa	Psarocolius montezuma			Χ	Χ	Χ	Χ	Χ		
Louisiana Waterthrush	Parkesia motacilla				Х					
Northern Waterthrush	Parkesia motacilia Parkesia noveboracensis				^	Х				
Golden-winged Warbler		1				_		Χ		
Black-and-white Warbler	Vermivora chrysoptera Mniotilta varia			Х				X		
Prothonotary Warbler				X		Х	Х	^		
r rounonotary warbier	Protonotaria citrea		Х			_^_	X			

			1		1					
ENGLISH NAME	SCIENTIFIC NAME	12 th	13 th	14 th	15 th	16^{th}	17 th	18^{th}	19^{th}	20th
Kentucky Warbler	Geothlypis formosa			Χ						
American Redstart	Setophaga ruticilla						Χ	Χ		
Blackburnian Warbler	Setophaga fusca		Χ					Χ		
Yellow Warbler	Setophaga (petechial) aestiva		Χ							
Chestnut-sided Warbler	Setophaga pensylvanica			Х		Χ	Χ	Χ		
Myrtle Warbler	Setophaga (c.) coronata							Χ		
Rufous-capped Warbler	Basileuterus rufifrons							Χ		
Black-cheeked Warbler	Basileuterus melanogenys		Χ							
Stripe-crowned Warbler	Basileuterus culicivorus							Χ		
Costa Rican Warbler	Basileuterus melanotis		Х							
Wilson's Warbler	Cardellina pusilla							Χ		
Family Cardinalidae (Cardinals										
Red-throated Ant-tanager	Habia fuscicauda			Χ	Χ					
Summer Tanager	Piranga rubra		Х	Х		Χ	Χ	Χ		
Family Thraupidae (Tanagers)										
Sub-family Porphyrospizinae (
Green Honeycreeper	Chlorophanes spiza						Χ	Χ		
Sub-family Dacninae (Blue Tai										
Scarlet-thighed Dacnis	Dacnis venusta						Χ	Χ		
Sub-family Saltatorinae (Salta	tors)									
Northern Grey Saltator	Saltator (coerulescens) grandis	5	Х							
Buff-throated Saltator	Saltator maximus			Х			Χ	Χ		
Sub-family Coerebinae (Dome										
Bananaquit	Coereba flaveola		Х	Х						
Yellow-faced Grassquit	Tiaris olivaceus						Χ	Χ		
Sub-family Tachyphoninae (Or										
White-lined Tanager	Tachyphonus rufus						Χ	Χ		
Crimson-collared Tanager	Ramphocelus sanguinolentus							Χ		
Scarlet-rumped Tanager	Ramphocelus passerinii			Х	Χ		Χ	Χ		
Sub-family Sporophilinae (See					,					
Black Seedeater	Sporophila corvina			Χ	Х	Χ		Х		
Sub-family Diglossinae (Highla				Ä	, , , , , , , , , , , , , , , , , , ,	, i		7.		
Slaty Flowerpiercer	Diglossa plumbea		Χ							
Sub-family Thraupinae (Typica										
Blue-grey Tanager	Tangara episcopus		Χ	Х	Χ	Χ	Χ	Χ		
Palm Tanager	Tangara palmarum		<u> </u>	Х		,,		Х		
Bay-headed Tanager	Tangara gyrola			<u> </u>				Х		
Golden-hooded Tanager	Tangara Igrvata			Χ			Χ	^		
Silver-throated Tanager	Tangara iarvata Tangara icterocephala		Х	<u> </u>			^			
Plain-coloured Tanager	Tangara inornata		\sim	Х						₩





Top: Anhinga. **Bottom:** Montezuma Oropendula.