# New locality for White-masked Antbird Pithys castaneus and other avian range extensions for dpto. Loreto, Peru

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Presentamos los resultados de una expedición realizada en junio del 2013 cerca del distrito de San Lorenzo, depto. Loreto, Perú. El descubrimiento más notable es una nueva localidad para Pithys castaneus y una población de Epinecrophylla sp., la cual presenta características fenotípicas intermedias entre E. fjeldsaai y E. haematonota. Pensamos que esa población de Epinecrophylla apoya la idea que E. fjeldsaai debería considerarse como una subespecie de E. haematonota. También documentamos extensiones de rango de distribución para otras cuatro especies: Cypseloides cryptus, Polytmus theresiae, Conopias trivirgatus y Tachyphonus rufus. Nuestra lista total de 252 especies incluye varias especies de ocurrencia poco común o raras, tales como Anurolimnas fasciatus, Bucco capensis, B. tamatia, Neoctantes niger, Neopipo cinnamomea y Phoenicircus nigricollis. Con estos resultados esperamos promover en las autoridades locales y regionales acciones de conservación en esta área amenazada por deforestación.

Few ornithological expeditions have been undertaken in the Amazon lowlands north of the río Marañón and west of the río Tigre, in Peru. Brooks *et al.*<sup>3</sup> compiled the results of >60 years of exploration in the Pongos area, while Pitman *et al.*<sup>7</sup> reported a Rapid Biological Assessment of the Cordillera de Kampankis, both at the western

boundaries of this general area. Álvarez Alonso¹ made the only bird inventory along the río Morona and we are unaware of any similar survey along the Peruvian stretch of the río Pastaza. Motivated by the recent rediscovery of White-masked Antbird *Pithys castaneus* along the Morona⁵, our team, comprising the authors, R. Barros, F. Díaz &

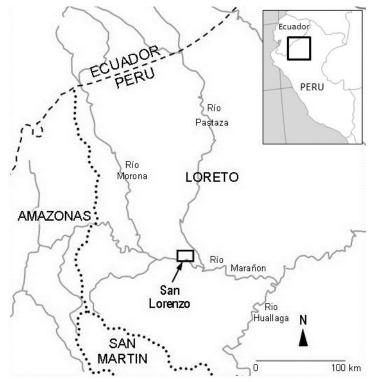


Figure 1. Map of north-west dpto. Loreto, Peru, showing the location of San Lorenzo.

C. Gouraud, organised an expedition along the Pastaza, where the type specimen was collected<sup>2</sup>. Unfortunately, after a few days exploring the lower Pastaza, Candoshi people requested that we leave their territory despite having pre-expedition authorisation from the village elder. Obliged to return towards the río Marañón, we present results from a nine-day avian survey near San Lorenzo, dpto. Loreto, Peru, in June 2013.

# **Study sites and Methods**

Our field work was conducted on 9-11 and 17-22 June 2013 near San Lorenzo, Loreto. San Lorenzo is the capital of both prov. Datem del Marañón and Barranca district, and has a population of c.7,5004. It is located north of the río Marañón and 18 km west of its confluence with the rio Pastaza (Fig. 1). San Lorenzo lies on an 'island' of terra firme completely surrounded by swamps that has perhaps switched back and forth between the right and left banks of the río Marañón. We made observations, photographs and sound-recordings during short transects along logging tracks and forest trails, from dawn to early evening. Moreover, at one site we set ten mist-nests (each 9-12 m in length) at ground level and opened them for a full day (from first light until late evening) and during two mornings. We experienced rainfall, ranging in periods of a few minutes to two hours, almost daily. Precipitation was more frequent during the final three days of the work. We surveyed three main areas as follows.

'Puente Machete' is the name given by local people to a forested area along a dirt road leading north / north-east of San Lorenzo (04°46'48"S 76°31'38"W; 155 m). Areas surveyed were 5–10 km from San Lorenzo and included relatively untouched terra firme forest as well as logged terra firme and second growth, with several newly cleared areas along the dirt road and adjacent tracks. The area is drained by several small black-water streams. Soil is apparently poor, with some sand but is composed mostly of clay. The presence of the palm Lepidocaryum tenue is noteworthy, and in many respects the forest around Puente Machete can be categorised as *irapayal* (forest with understory dominated by Lepidocaryum tenue, locally known as Irapay). Mist-nets were erected in the forest near our camp (04°46'32"S 76°31'20"W). Surveys were conducted on 9, 11 and 17-22 June.

'Oleoducto' extends along another dirt road 2 km east of San Lorenzo (from 04°50'16"S 76°31'52"W to a few km further east; 140 m). Forest along this road is mainly secondary, with extensive tracts of selectively logged forest both sides of the road. Open and semi-open areas are patchily distributed along the road, with newly cleared areas, bushy second growth and *chacras* (small slash-and-

burn units), as well as 1.5 m-tall grassland with scattered bushes. Surveys were conducted on 9, 10 and 17 June 2013.

The 'creek' area is a small black-water stream 2 km west of San Lorenzo on the left (north) bank of the río Marañón (from 04°49'36"S 76°34'27"W up to 7 km west; 140 m). Some 30 m at its width near the mouth, it narrows to a few metres within a quite short distance upstream. White-sand banks are scattered across calmer parts of the streambed, but were too small to support any vegetation. Except a few *chacras*, the banks were covered on both sides by floodplain forest. Field work was conducted from a canoe (with several stops on the banks) for one day by three of us on 10 June 2013.

We collected 22 specimens and deposited these in the scientific collection of the Museo de Historia Natural de la Universidad Nacional de San Agustín de Arequipa (MUSA). Additionally, we deposited 119 sound-recordings of 95 species at www.xeno-canto.org, and most of our sightings are recorded on eBird (www.ebird.org). Taxonomy and nomenclature follow Remsen et al.8.

#### Results

We encountered a total of 252 species near San Lorenzo (Appendix 1). Our main discoveries were a new locality for White-masked Antbird *Pithys castaneus* and a population of antwrens *Epinecrophylla* sp. showing phenotypic characters intermediate between Brown-backed *E. fjeldsaai* and Stipple-throated Antwrens *E. haematonota*. Referring primarily to distribution maps in Schulenberg *et al.*<sup>10</sup>, we also document range extensions for an additional four species.

#### White-chinned Swift Cypseloides cryptus

On 22 June, we photographed at least five at Puente Machete (Fig. 2) circling low above the canopy of terra firme forest, together with Whitecollared Swifts Streptoprocne zonaris. Observations were made in early morning light. No vocalisations were heard. Identification of Cypseloides is not straightforward, but the medium size, short square tail and bulbous head, lack of white on the breast, white mottling on the lower belly (at least on some individuals) and white ventral band eliminates White-chested Swift C. lemosi; juvenile C. lemosi would have longer wings, longer tail and white scalloping on the breast (S. N. G. Howell pers. comm.). The lack of white supraloral line and white spot behind the eye on all of the birds rules out Spot-fronted Swift C. cherriei. All of the photographed individuals were in primary moult (Fig. 2), which agrees with the moult timing of many birds observed in eastern Ecuador (S. N. G. Howell pers. comm.). *C. cryptus* is a rare, probably



Figure 2. White-chinned Swift Cypseloides cryptus, San Lorenzo, Loreto, Peru, June 2013 (Fabrice Schmitt)

overlooked, species in Peru, usually found on the east slope of Andes and over a wide variety of habitats, including heavily degraded areas. It breeds behind waterfalls and in gorges, like other *Cypseloides*<sup>9,10</sup>. As with most swifts, they may commute long distances from their breeding / roosting sites to feed, and the birds conceivably came from the relatively close Kampankis range (c.100 km west of our sighting), although the species was not found there during a recent field expedition<sup>7</sup>.

#### **Green-tailed Goldenthroat** Polytmus theresiae

Fairly common along the Oleoducto road, in tall grassland dominated by *Andropogon* (Poaceae), with *Verbena* (Verbenaceae), *Anoda* (Malvaceae) and a few Melastomataceae growing as scattered bushes with some tree re-growth. We discovered a loose lek of at least ten singing individuals (XC187549, XC187553) within c.4 ha. Singing males usually perched 2–4 m above ground in



Figure 3. Green-tailed Goldenthroat *Polytmus theresiae*, San Lorenzo, Loreto, Peru, June 2013 (Christophe Gouraud)

small trees and bushes, just above the level of the surrounding grass (Fig. 3), sometimes aggressively chasing a neighbouring male before returning to the same perch. *P. theresiae* is very patchily distributed in northern Peru. Our record fills a distributional gap between its two previously known locations in Peru, 50 km south-east (Jeberos) and 150 km north (along the río Pastaza) of our study site<sup>10</sup>.

#### Antwren sp. Epinecrophylla sp.

We observed Epinecrophylla antwrens daily in terra firme forest near Puente Machete, and two males and three females were collected (Figs. 4-5; MUSA 4953-4957). Unfortunately, we obtained no soundrecordings, although we briefly heard songs similar to those given by Stipple-throated Antwren E. haematonota. Skull ossification of the specimens, as well as presence of a brood patch and active moult, confirm that they were adults. Members of the genus are similar, but we eliminated White-eyed Antwren E. leucophthalma by the presence of dark streaks on the females' throats. The other species most closely resembling the San Lorenzo birds is E. haematonota, which is widespread to the south and east in Amazonian Peru, and Brown-backed Antwren E. fjeldsaai, in Amazonian Ecuador and northern Peru west of the río Napo. Whitney et al.11 recently proposed that E. haematonota is paraphyletic with respect to E. fjeldsaai, but they had no evidence of presence or absence of reproductive isolation. The back colour of the San Lorenzo birds varied from all brown (one female) to brown on the upper back with some rufous on the lower back (two males and two females), intermediate between E. haematonota (rufous back in both sexes) and E. fieldsaai (brown back in both sexes). Our observations of phenotypically intermediate birds suggest historic or ongoing gene flow and lack of reproductive isolation between the two taxa, supporting the idea that E. fjeldsaai is a subspecies of E.  $haematonota^{11}$ .

#### White-masked Antbird Pithys castaneus

We encountered this rare and poorly known species daily along a 470m-long forest transect near Puente Machete; seven were trapped (Fig. 6) of which two were collected (MUSA 4936-4937). Our records are the first east of the rio Morona since the type specimen was collected (its precise provenance is debated, but it was reportedly taken at 'Andoas', somewhere along the río Pastaza). Other localities are Tierra Blanca, near Puerto Alegria on the west bank of the río Morona<sup>5</sup>, the Kampankis range between the río Santiago and the río Morona<sup>5,7</sup>, and Chicais in dpto. Amazonas<sup>6</sup>. San Lorenzo is 95 km south-east of Tierra Blanca, the nearest known location. All of these localities are north of the río Marañón. Although we caught P. castaneus daily in mist-nets, we seldom observed





Figures 4–5. Specimens of an Epinecrophylla antwren sp., collected at San Lorenzo, Loreto, Peru, June 2013 (Raphaël Sané)



Figure 6. White-masked Antbird Pithys castaneus, San Lorenzo, Loreto, Peru, June 2013 (Gabriel Vásquez)

the species in the field, probably because we found very few army ant swarms, which usually provide the best opportunity to observe this 'professional' ant-follower. Most observations pertained to birds responding to pre-recorded playback, with some individuals coming to the sound over a distance of probably >100 m. On approaching, a bird would first deliver the usual song (long whistle), then circle us, sometimes perching up to 3 m above ground. All birds that did this were very shy and never stayed more than 1-2 minutes. Occasionally, we heard spontaneous song during the first hour of daylight. All of our sightings were in irapayal forest. Typically, after playback of P. castaneus song within a large stand of these palms, a bird would respond within c.5 minutes.

### Three-striped Flycatcher Conopias trivirgatus

We photographed (Fig. 7) and sound-recorded (XC188227) a pair on 10 June in a mosaic of logged forest, second growth and gardens in the Oleoducto road area. Two (possibly the same) were photographed on 17 June at forest edge along the Oleoducto road, and another pair was seen on 18 June at Puente Machete in forest edge. The species' distribution in Peru is poorly known<sup>10</sup> and our observations appear to be the first records in country north of the río Marañón. Superficially similar to Social Flycatcher Myiozetetes similis (separated by throat colour and vocalisations), C. trivirgatus is easily confused with Yellow-throated Flycatcher C. parvus (best separated by vocalisations but also by eyebrow shape and forehead coloration) and is perhaps overlooked in Peru.



Figure 7. Three-striped Flycatcher Conopias trivirgatus, San Lorenzo, Loreto, Peru, June 2013 (Marc Thibault)



Figure 8. Male White-lined Tanager Tachyphonus rufus, San Lorenzo, Loreto, Peru, June 2013 (Christophe Gouraud)

#### White-lined Tanager Tachyphonus rufus

We saw a pair, of which the male was photographed along the Oleoducto road on 17 June (Fig. 8). The species is patchily distributed in eastern Peru, where it mostly occurs in less humid areas or at sites with sandy soil<sup>10</sup> in inter-Andean valleys. Our record suggests that it is rare or uncommon in the San Lorenzo area, where it has possibly colonised recently opened habitats, and constitutes one of the few records from lowland Amazonian Peru.

#### Conclusion

Our list of 252 bird species from the San Lorenzo region is certainly far from exhaustive. Nevertheless, in addition to the above records, we also found several additional uncommon or rare species, including Black-banded Crake Anurolimnas fasciatus, Collared Bucco capensis and Spotted Puffbirds B. tamatia, Black Bushbird Neoctantes niger, Cinnamon Manakin-Tyrant Neopipo cinnamomea and Black-necked Red Cotinga Phoenicircus nigricollis, and further visits will certainly add species to this list. Following our survey, the organisation Nature and Culture International worked together with the Provincial Municipality of Datem del Marañón to create the 53,761.75-ha 'Área de Conservación Ambiental Máscara Blanca' in May 2016, protecting habitat for White-masked Antbird.

## Acknowledgements

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# Appendix I. List of birds seen in the San Lorenzo area (Loreto, Peru)

Mach = Puente Machete, Oleo = Oleoducto area, Creek = Creek area

Evidence: P = species photographed, A = species sound-recorded and recording deposited at www.xeno-canto. org, S = specimen deposited in the scientific collection of the Museo de Historia Natural de la Universidad Nacional de San Agustín de Arequipa (MUSA).

Scientific name	English name	÷		ě	lence
	· ·	Ψaσ	Oleo	Ş	Ε̈́
TINAMIDAE					
Tinamus guttatus	White-throated Tinamou	х			Α
Crypturellus cinereus	Cinereous Tinamou	Х	Х		Α
Crypturellus soui	Little Tinamou	Х	Х		Α
Crypturellus bartletti	Bartlett's Tinamou	Х			Α
CRACIDAE					
Ortalis guttata	Speckled Chachalaca	х	Х		
ODONTOPHORIDA	E				
Odontophorus sp.	wood quail sp.		Х		
ANHINGIDAE					
Anhinga anhinga	Anhinga	х			
ARDEIDAE	•				
Tigrisoma lineatum	Rufescent Tiger Heron	х			Р
Nycticorax nycticorax	Black-crowned Night Heron	Х			
Butorides striata	Striated Heron	Х	х	х	Р
CATHARTIDAE					
Cathartes aura	Turkey Vulture	х	х	х	
Cathartes melambrotus	Greater Yellow-headed Vulture	х	х		Р
Coragyps atratus	Black Vulture	х	х	х	Р
Sarcoramphus papa	King Vulture	х			P
ACCIPITRIDAE					
Leptodon cayanensis	Grey-headed Kite			х	
Elanoides forficatus	Swallow-tailed Kite	х			
Harpagus bidentatus	Double-toothed Kite	х	х		Р
Accipiter superciliosus	Tiny Hawk	х			P, A
Geranospiza caerulescens	Crane Hawk	х			.,
Buteogallus schistaceus	Slate-coloured Hawk	х			Р
Rupornis magnirostris	Roadside Hawk	x	х	х	Р, А
RALLIDAE	Trought Tierric	^	^	^	.,,,
Anurolimnas fasciatus	Black-banded Crake	х	х		P. A
Laterallus melanophaius	Rufous-sided Crake	X	х		.,,,
EURYPYGIDAE	Transact of arts	^	^		
Euryþyga helias	Sunbittern	х			
LARIDAE	ounineed in	^			
Sternula superciliaris	Yellow-billed Tern			х	
COLUMBIDAE	TCIIOW-DIIICG TCTTI			^	
Patagioenas cayennensis	Pale-vented Pigeon	x	х	х	Α
Patagioenas subvinacea	Ruddy Pigeon	x	x	^	P, A
Geotrygon montana	Ruddy Quail-Dove	x	^		P
Leptotila verreauxi	White-tipped Dove	^	х		A
Leptotila rufaxilla	Grey-fronted Dove	Х	^		A
Columbina talpacoti	Ruddy Ground Dove	x	х	х	A
Claravis pretiosa	Blue Ground Dove	^	X	^	^
Ciaravis predosa	Dide Ground Dove		^		

Scientific name	English name	ach	Oleo	reek	vidence
CUCULIDAE		Σ	0	Ū	ú
	Greater Ani			.,	
Crotophaga major	Smooth-billed Ani	.,	.,	X	Р
Crotophaga ani	Little Cuckoo	X X	X X	Х	r P
Coccycua minuta					Г
Piaya cayana	Squirrel Cuckoo Black-bellied Cuckoo	X	X		ВΛ
Piaya melanogaster STRIGIDAE	biack-deliled Cuckoo	Х	Х		P, A
	Tuested Commands Oud				Α
Megascops choliba	Tropical Screech Owl Crested Owl	X	Х		P. A
Lophostrix cristata Glaucidium brasilianum		X			г, А
NYCTIBIDAE	Ferruginous Pygmy Owl	Х	Х		
	C D				
Nyctibius grandis	Great Potoo	Х			
CAPRIMULGIDAE	C D				n
Nyctidromus albicollis  APODIDAE	Common Pauraque	Х	Х		Р
	AA/I : 1: 1.0 :6				_
Cypseloides cryptus	White-chinned Swift	X			Р
Streptoprocne zonaris	White-collared Swift	Х			Р
Chaetura egregia	Pale-rumped Swift	Х			
Chaetura brachyura	Short-tailed Swift	Х	Χ	X	
Tachornis squamata	Fork-tailed Palm Swift	Х	Χ	X	
TROCHILIDAE					
Florisuga mellivora	White-necked Jacobin	Х	Х		P
Glaucis hirsutus	Rufous-breasted Hermit	Х	Χ		Р
Phaethornis ruber	Reddish Hermit	Х			
Phaethornis bourcieri	Straight-billed Hermit	Х			
Phaethornis malaris	Great-billed Hermit	Х			Р
Polytmus theresiae	Green-tailed Goldenthroat		Χ		P, A
Anthracothorax nigricollis	Black-throated Mango	Х	Χ		Р
Heliomaster longirostris	Long-billed Starthroat		Χ		Р
Thalurania furcata	Fork-tailed Woodnymph	Х			Р
Amazilia fimbriata	Glittering-throated Emerald		Χ	Χ	Р
TROGONIDAE					
Trogon melanurus	Black-tailed Trogon			Χ	
Trogon viridis	Green-backed Trogon	Χ	Χ		P, A
Trogon ramonianus	Amazonian Trogon	Χ			
ALCEDINIDAE					
Megaceryle torquata	Ringed Kingfisher			Χ	
Chloroceryle aenea	American Pygmy Kingfisher	Х	Χ		
MOMOTIDAE					
Momotus momota	Amazonian Motmot		Χ		
GALBULIDAE					
Galbalcyrhynchus leucotis	White-eared Jacamar			Χ	
Galbula albirostris	Yellow-billed Jacamar	Х			Р
Galbula tombacea	White-chinned Jacamar	Х	Χ		Р
Galbula dea	Paradise Jacamar	Х			Р
Jacamerops aureus	Great Jacamar	Х			Α
BUCCONIDAE					
Notharchus tectus	Pied Puffbird	Х			
Bucco macrodactylus	Chestnut-capped Puffbird		х		Р
Bucco tamatia	Spotted Puffbird	Х			P, A
Bucco capensis	Collared Puffbird	Χ			P, A

Scientific name	English name	Mach	Oleo	Creek	Evidence	Scientific name	English name	Mach	Oleo	Creek	Evidence
Monasa nigrifrons	Black-fronted Nunbird	х		х		Myrmelastes leucostigma	Spot-winged Antbird	х		Х	P, A
CAPITONIDAE						Akletos melanoceps	White-shouldered Antbird	Х	Х	Х	P, A
Capito aurovirens	Scarlet-crowned Barbet	х	Х	Х	P	Pithys castaneus	White-masked Antbird	Х			P, A, S
Capito auratus	Gilded Barbet	х	Х		P, A	Gymnopithys leucaspis	White-cheeked Antbird	Х			
RAMPHASTIDAE						Gymnopithys lunulatus	Lunulated Antbird		х		Р
Ramphastos tucanus	White-throated Toucan	х	Х			Willisornis poecilinotus	Common Scale-backed Antbird	Х			P, S
Ramphastos vitellinus	Channel-billed Toucan	х	Х			GRALLARIIDAE					
Selenidera reinwardtii	Golden-collared Toucanet		Х			Myrmothera campanisona	Thrush-like Antpitta	Х			
Pteroglossus inscriptus	Lettered Aracari	х				FORMICARIIDAE					
Pteroglossus pluricinctus	Many-banded Aracari	х		Х	P, A	Formicarius colma	Rufous-capped Antthrush		Х		
Pteroglossus azara	Ivory-billed Aracari	х	Х		P	FURNARIIDAE					
PICIDAE						Sclerurus rufigularis	Short-billed Leaftosser	Х			Α
Melanerpes cruentatus	Yellow-tufted Woodpecker	х	Х	Х	P, A	Deconychura longicauda	Long-tailed Woodcreeper	Х			P, A, S
Veniliornis passerinus	Little Woodpecker		Х	Х	P	Dendrocincla merula	White-chinned Woodcreeper	Х			P
Veniliornis affinis	Red-stained Woodpecker	х			Р	Dendrocincla fuliginosa	Plain-brown Woodcreeper	Х			Р
Piculus flavigula	Yellow-throated Woodpecker	х				Glyphorynchus spirurus	Wedge-billed Woodcreeper	Х	Х		P, S
Piculus chrysochloros Colaptes punctigula	Golden-green Woodpecker Spot-breasted Woodpecker	х	x	x	A P	Dendrexetastes rufigula	Cinnamon-throated Woodcreeper	х	Х		
Celeus torquatus	Ringed Woodpecker	х	^	^	'	Nasica longirostris	Long-billed Woodcreeper	Х			Α
Campephilus rubricollis	Red-necked Woodpecker	x				Dendrocolaptes certhia	Amazonian Barred Woodcreeper	х			P, A
FALCONIDAE						Dendrocolaptes picumnus	Black-banded Woodcreeper	х			Α
Daptrius ater	Black Caracara	Х		Χ	Α	Xiphorhynchus obsoletus	Striped Woodcreeper	х			Р
Milvago chimachima	Yellow-headed Caracara		Χ			Xiphorhynchus elegans	Elegant Woodcreeper	х			P, A, S
Falco rufigularis	Bat Falcon	Х				Xiphorhynchus guttatus	Buff-throated Woodcreeper	х	х	Х	A
PSITTACIDAE						Lepidocolaptes duidae	Duida Woodcreeper	х			P, A
Brotogeris versicolurus	Canary-winged Parakeet		Χ	Χ	Α	Microxenops milleri	Rufous-tailed Xenops	х			Á
Brotogeris cyanoptera Pyrilia barrabandi	Cobalt-winged Parakeet Orange-cheeked Parrot	Х	X X		P, A	Philydor pyrrhodes	Cinnamon-rumped Foliage-	х			Α
Pionus menstruus	Blue-headed Parrot	х	x	v			gleaner				
Amazona ochrocephala	Yellow-crowned Parrot	X	^	^		Ancistrops strigilatus	Chestnut-winged Hookbill	Χ			
Amazona amazonica	Orange-winged Parrot	x			Р	Automolus infuscatus	Olive-backed Foliage-gleaner		Χ		Α .
Pionites melanocephalus	Black-headed Parrot	X			P, A	Synallaxis gujanensis	Plain-crowned Spinetail	Χ			P, A
Pyrrhura melanura	Maroon-tailed Parakeet	X			1,71	Synallaxis albigularis	Dark-breasted Spinetail		Х		P, A
Orthopsittaca manilatus	Red-bellied Macaw		х			Synallaxis rutilans	Ruddy Spinetail	Χ			Р
Ara ararauna	Blue-and-yellow Macaw	^	x		Р	TYRANNIDAE					
THAMNOPHILIDAE	,		^		•	Tyrannulus elatus	Yellow-crowned Tyrannulet	Х			P, A
Cymbilaimus lineatus	Fasciated Antshrike	х	v		P, A	Myiopagis gaimardii	Forest Elaenia		Х		
Taraba major	Great Antshrike	^	^	х	1,71	Myiopagis caniceps	Grey Elaenia	Χ			_
Thamnophilus murinus	Mouse-coloured Antshrike	х	v	^	P, A	Elaenia spectabilis	Large Elaenia		Χ		Р
Neoctantes niger	Black Bushbird	X	^		P, A	Ornithion inerme	White-lored Tyrannulet	Χ			
Thamnomanes ardesiacus	Dusky-throated Antshrike	x	v		P, A	Phaeomyias murina	Mouse-coloured Tyrannulet		Χ		P, A
Isleria hauxwelli	Plain-throated Antwren	x	x		P, A	Corythopis torquatus	Ringed Antpipit	Χ			P, A, S
Pygiptila stellaris	Spot-winged Antshrike	X	^		P, A	Mionectes oleagineus	Ochre-bellied Flycatcher	Х			P, S
Epinecrophylla sp.	antwren sp.	X			P, S	Myiornis ecaudatus	Short-tailed Pygmy Tyrant	Χ			
Myrmotherula brachyura	Pygmy Antwren	^		х	1, 3	Lophotriccus vitiosus	Double-banded Pygmy Tyrant				A, S
Myrmotherula ignota	Moustached Antwren	х		^	P, A	Poecilotriccus latirostris	Rusty-fronted Tody-Flycatcher			Χ	Α
Myrmotherula axillaris	White-flanked Antwren		х		P, A, S	Todirostrum	Yellow-browed Tody-Flycatcher	Χ	Χ		
Myrmotherula menetriesii	Grey Antwren	X	Χ.		P, S	chrysocrotaphum	Yallow marginad Elycatcher	v			Α
Мутпоспетиа тепеспези Нуроспетіs регичіапа	Peruvian Warbling Antbird	X	х	х	г, з Р, А	Tolmomyias assimilis Tolmomyias poliocephalus	Yellow-margined Flycatcher Grey-crowned Flycatcher	X			A
Cercomacra cinerascens	Grey Antbird	۸	x	^	ι, Λ	Onychorhynchus coronatus		X			P, A
Myrmoborus myotherinus	Black-faced Antbird	х	^		Α	Terenotriccus erythrurus	Ruddy-tailed Flycatcher	X X			1, 1
Sclateria naevia	Silvered Antbird		х		A	Neopipo cinnamomea	Cinnamon Manakin-Tyrant	X X			P, S
Selectio Hueria	S C. CG / WILDING	^	^		**	recopipo cimamomea	Character Flanaring Lyl allt	^			1,5

Scientific name	English name	Mach	Oleo	Creek	Evidence	Scientific name	English name	Mach	Oleo	Creek	Evidence
Pyrocephalus rubinus	Vermilion Flycatcher		Х		P	Pheugopedius coraya	Coraya Wren	Х	Χ		P, A
Legatus leucophaius	Piratic Flycatcher		Х		P	Cantorchilus leucotis	Buff-breasted Wren	х	Χ		Α
Myiozetetes similis	Social Flycatcher	Х	Х	Х	P	Henicorhina leucosticta	White-breasted Wood Wren	х			Р
Myiozetetes granadensis	Grey-capped Flycatcher	Х	Х	Х	P	Cyphorhinus arada	Musician Wren	х			P, A
Myiozetetes luteiventris	Dusky-chested Flycatcher	Х			P	DONACOBIIDAE					
Pitangus sulphuratus	Great Kiskadee	Х	Х	Х		Donacobius atricapilla	Black-capped Donacobius		Χ		Α
Pitangus lictor	Lesser Kiskadee		Х			TURDIDAE					
Conopias trivirgatus	Three-striped Flycatcher	Х	Х		P, A	Turdus ignobilis	Black-billed Thrush		Χ	Χ	Р
Myiodynastes maculatus	Streaked Flycatcher	Х	Χ		P	Turdus albicollis	White-necked Thrush	Х	Χ		P, A
Megarynchus pitangua	Boat-billed Flycatcher	Х	Х	Χ	P, A	THRAUPIDAE					
Tyrannopsis sulphurea	Sulphury Flycatcher	Χ			Α	Cissopis leverianus	Magpie Tanager	Х	Χ		P
Empidonomus varius	Variegated Flycatcher			Χ		Tachyphonus cristatus	Flame-crested Tanager	Х			Р
Empidonomus	Crowned Slaty Flycatcher	Х			P	Tachyphonus surinamus	Fulvous-crested Tanager	Х			P, S
aurantioatrocristatus	To a facility of the				n	Tachyphonus rufus	White-lined Tanager		Χ		Р
Tyrannus melancholicus	Tropical Kingbird	Х		Х	P	Ramphocelus nigrogularis	Masked Crimson Tanager			Χ	
Rhytipterna simplex	Greyish Mourner	Х	Х		P, A	Ramphocelus carbo	Silver-beaked Tanager	Х	Χ	Χ	Α
Myiarchus ferox	Short-crested Flycatcher	Х	Х	Х	A	Thraupis episcopus	Blue-grey Tanager	Х	Χ	Χ	
Ramphotrigon ruficauda	Rufous-tailed Flatbill	Х	Х	Х	A	Thraupis palmarum	Palm Tanager	Х	Χ	Χ	
Attila cinnamomeus	Cinnamon Attila		Х		A	Tangara nigrocincta	Masked Tanager	Х			Р
Attila citriniventris	Citron-bellied Attila	Х			A	Tangara chilensis	Paradise Tanager	Х	Χ		Р
Attila spadiceus	Bright-rumped Attila	Х	Х		P, A	Tangara velia	Opal-rumped Tanager	Х			
COTINGIDAE	DI I I I I I C :				ъ .	Tangara callophrys	Opal-crowned Tanager	Х			
Phoenicircus nigricollis	Black-necked Red Cotinga	Х			P, A	Tangara schrankii	Green-and-gold Tanager	Х	Χ		Р
Querula purpurata	Purple-throated Fruitcrow	Х	Х			Tersina viridis	Swallow Tanager		Χ		
Cotinga cayana	Spangled Cotinga	Х			Б. А	Dacnis lineata	Black-faced Dacnis		Χ		
Lipaugus vociferans	Screaming Piha	Х	Х	Х	P, A	Dacnis cayana	Blue Dacnis	Х			P
PIPRIDAE	D (T .M.):					Cyanerpes nitidus	Short-billed Honeycreeper	Х			P
Tyranneutes stolzmanni	Dwarf Tyrant-Manakin	Х			р 4	Cyanerpes caeruleus	Purple Honeycreeper	Х			
Lepidothrix coronata	Blue-crowned Manakin	Х			P, A	Cyanerpes cyaneus	Red-legged Honeycreeper		Χ		Р
Manacus manacus	White-bearded Manakin	Х			P, A, S	Chlorophanes spiza	Green Honeycreeper	Х	Χ		
Machaeropterus regulus	Striped Manakin	Х	Х		P, A	Hemithraupis flavicollis	Yellow-backed Tanager	Х			
Dixiphia pipra TITYRIDAE	White-crowned Manakin	Х	Х		P, A, S	Saltator maximus	Buff-throated Saltator	Х	Χ		P, A
	Diagle anacoma d Titoma				Р	Saltator coerulescens	Greyish Saltator	Х	Χ		P, A
Tityra inquisitor	Black-crowned Tityra		Х		Г	Volatinia jacarina	Blue-black Grassquit		Χ		Р
Tityra cayana	Black-tailed Tityra	Х				Sporophila castaneiventris	Chestnut-bellied Seedeater		Χ		
Tityra semifasciata	Masked Tityra	X	Х		ВΛ	Sporophila angolensis	Chestnut-bellied Seed Finch	Х	Χ		P, A
Laniocera hypopyrra	Cinereous Mourner	X	.,	Х	P, A P	Sporophila murallae	Caqueta Seedeater			Χ	
lodopleura isabellae	White-browed Purpletuft		X		Г	EMBERIZIDAE					
Pachyramphus polychopterus	White-winged Becard	Х	Х			Ammodramus aurifrons	Yellow-browed Sparrow	Х	Χ		P, A
INCERTAE SEDIS						CARDINALIDAE					_
Piprites chloris	Wing-barred Piprites	х			Α	Habia rubica	Red-crowned Ant Tanager	Х			Р
VIREONIDAE	6 - · · · · ·					ICTERIDAE					
Pachysylvia hypoxantha	Dusky-capped Greenlet	х			Α	Psarocolius angustifrons	Russet-backed Oropendola	Х	Χ		Р
Vireo olivaceus	Red-eyed Vireo	х				Psarocolius viridis	Green Oropendola			Χ	
HIRUNDINIDAE	,					Cacicus solitarius	Solitary Black Cacique		Х		P, A
Stelgidopteryx ruficollis	Southern Rough-winged			х		Cacicus cela	Yellow-rumped Cacique	Х	Х	Χ	
. 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Swallow					Icterus cayanensis	Epaulet Oriole	Χ	Χ		_
Progne chalybea	Grey-breasted Martin	Х		х		Lampropsar tanagrinus	Velvet-fronted Grackle			Χ	Р
Tachycineta albiventer	White-winged Swallow			х		FRINGILLIDAE					
TROGLODYTIDAE						Euphonia chrysopasta	Golden-bellied Euphonia	Χ			
Microcerculus marginatus	Scaly-breasted Wren	Х	х		Α	Euphonia minuta	White-vented Euphonia	Χ			P, A
Troglodytes aedon	House Wren		Х			Euphonia rufiventris	Rufous-bellied Euphonia	Х	Х		P, A