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Mammals and Birds of the Manu Biosphere Reserve, Peru

Bruce D. Patterson Douglas F. Stotz Sergio Solari

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Mammals and Birds of the Manu Biosphere Reserve, Peru

Bruce D. Patterson, Douglas F. Stotz, and Sergio Solari

Abstract

The eastern slope of the tropical Andes and adjacent Amazonian lowlands are home to some of the world's richest biotas. Here we report on recent surveys and inventories of mammal and bird faunas in Peru's Manu National Park and Biosphere Reserve and compile these records with prior literature, museum specimens, and unpublished records to produce updated lists for both taxa. The lists of 222 species of mammals and 1005 species of birds recorded along an elevational transect in the Manu Biosphere Reserve are the largest for any similarly sized area in the world. Mammals recently documented in the reserve include 147 species, 130 with specimen vouchers. Twelve species were new to science, and most of these have been recently described; four others might be new and are currently being evaluated. Twenty-nine mammal species are newly added to Manu's list. The cumulative tally comprises 20 species of opossums, 1 shrew opossum, 2 armadillos, 5 sloths and anteaters, 92 bats, 14 primates, 21 carnivores, 1 tapir, 7 even-toed ungulates, 58 rodents, and 1 rabbit. Avian records include 682 species with specimen vouchers and another 108 documented by recognizable photographs or voice recordings. The avifauna is largely resident, including 911 species that are year-round residents, 42 migrants from the north, 24 migrants from the south or other tropical areas, and 28 vagrants (represented by fewer than three records).

Resumen

La vertiente oriental de los Andes y las selvas bajas advacentes de la Amazonia alojan algunas de las biotas más diversas del planeta. Aquí presentamos los resultados de recientes estudios e inventarios de faunas de mamíferos y aves en el Parque Nacional y Reserva de Biosfera del Manu, en Perú, y añadimos estos datos a la literatura previa, especimenes de museo y registros no publicados para producir listas actualizadas para ambos grupos. La lista de 222 especies de mamíferos y 1003 especies de aves registradas en la Reserva de Biosfera del Manu a lo largo de este transecto son las más diversas para alguna área de tamaño similar en el mundo. Los mamíferos recientemente registrados en la reserva incluyen 147 especies, de las cuales 130 están representadas por especimenes de museo. Trece especies corresponden a especies no descritas y nuevas para la ciencia, la mayoría de ellas recientemente descritas, pero otras dos podrían ser nuevas y están siendo actualmente evaluadas. Veintinueve especies son adiciones recientes a la lista conocida de mamíferos del Manu. El conteo acumulativo incluye 20 especies de didélfidos, 1 musaraña marsupial, 5 perezosos y hormigueros, 2 armadillos, 92 murciélagos, 14 monos, 21 carnívoros, 1 tapir, 7 sajinos y venados, 58 roedores, y 1 conejo. Los registros de aves incluyen 682 especies con especimenes de museo y otras 108 documentadas por fotografías o registros de cantos reconocibles. La avifauna es mayormente residente, incluyendo 914 especies que son residentes anuales, 41 que migran desde el norte, 22 que migran desde el sur u otras áreas tropicales, y 26 fuera del rango geográfico normal (representadas por menos de tres registros).

Biological Surveys and Inventories in Manu*

Bruce D. Patterson, Douglas F. Stotz, and Sergio Solari

Introduction

In 1973, the Peruvian government created one of the largest and most pristine nature reserves anywhere in the world. The preserve was christened "Manu" after the meandering river that courses through its lower reaches. Most of the park is situated in the lowlands of the department of Madre de Dios, although its highlands lie in the adjacent department of Cuzco.

The park's origins were chronicled by Kim MacQuarrie in a beautiful book illustrated with photographs by André and Cornelia Bärtschi (MacQuarrie, 1992, 1998). To us, it seems especially fitting that this magnificent park owes its origin to Peruvian naturalist-collector Celestino Kalinowski. Kalinowski was born and made his home in the Marcapata valley just south of Manu. He traveled widely in Peru and beyond, and he shipped specimens that he collected to major natural history museums the world over. However, his collections were especially strong from the region surrounding his home. The place names "Hacienda Cadena" and "Ouince Mil" are well known to students of South America's vertebrate faunas. So valuable were those he

1973, the area became a national park, ensuring its legal status and protection. In 1977, UN-ESCO recognized its global status by making the

national park and an adjacent reserved zone—an

area of 1.881.200 hectares—Manu Biosphere

Reserve. A decade later, it was named a World

shipped to the bird and mammal divisions of Chicago's Field Museum that the Museum sponsored his trip to Chicago to study his and

other collections and to confer with the scien-

tists-Colin Sanborn, Philip Hershkovitz, Mel-

vin Traylor, and Emmet Blake-who were

in southeastern Peru in the 1960s, Kalinowski

sought to secure governmental protection for the

Alarmed by growing commercial development

studying material that he sent here.

Heritage Site, one of only 200 areas in the world accorded this designation (MacQuarrie, 1992).

Recognition of Manu's incredible biological riches has grown hand in hand with the reference collections of its plants and animals. Seemingly, each collection made there added more species to the regional fauna; many proved to be species new to science. Despite focused biological collections in Manu for more than 50 years, this still applies today, even to the best-known vertebrate

natural areas remaining in best condition. He actively lobbied governmental official Don Felipe Benavides to advocate setting aside a "reserved zone" consisting of the entire watershed of the Manu River. He also escorted Major Ian Grimwood, an English consultant hired to locate a national reserve in the Amazon, to Manu. Although Grimwood had earlier concluded that much of Peru's Amazon forest had already been despoiled, Kalinowski opened his eyes to Manu's pristine riches. A three-week trip sufficed to convince Grimwood that Manu was the place for the reserve, and he so reported his recommendation to the government. A year later, in 1968, Manu was declared a national reserve, and hunting and lumbering were prohibited. In

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groups—birds and mammals (Fitzpatrick and Willard, 1990). During the course of surveys in Manu in 1999–2001, our teams added dozens of additional bird and mammal species to the park list and collected the first-known specimens of many undescribed species of mammals.

Modern surveys in the park can be traced to collections made by John W. Fitzpatrick and David E. Willard, mostly after their arrival at the Field Museum in the late 1970s. Manu had already become incorporated as a national park, and both men had completed their doctorates at Princeton University, where John Terborgh had initiated studies of Manu. Over a series of years, they visited various sites along the Eastern Versant and in isolated foothill ranges, like the Pantiacolla. Their collections and surveys contributed to Manu's first scientific mammal and bird inventory, organized around Terborgh's studies at Cocha Cashu (Terborgh et al., 1984).

One of us (DFS) was a participant in the last of these expeditions, which took place in 1985. Remarkably, the team met Celestino Kalinowski, who gave them a long-delayed consignment of specimens for the Field Museum; Kalinowski died the following year. But the collections that Fitzpatrick, Willard, and their companions made and deposited in the Field Museum and San Marcos University in Lima attracted the attention and interest of others, including the authors. In 1984, James L. Patton and colleagues from the University of California at Berkeley sampled mammals at various montane sites along the Alto Madre de Dios drainage as well as in adjacent valleys of Cuzco. Between 1987 and 1992, Don E. Wilson and colleagues from the Smithsonian Institution conducted a series of studies at Pakitza, a guard station at the northeastern boundary of the park, under the auspices of Terry Erwin's BIOLAT (Biological Diversity of Latin America) program. In 1989-1990, Víctor Pacheco evaluated the mammals of Puesto de Vigilancia Acjanaco and environs as part of a team led by Kenneth Young, returning in 1991 under the aegis of BIOLAT to sample the Cosñipata drainage; César Ascorra, Sergio Solari, and Elena Vivar, all of the Museo de Historia Natural, San Marcos, also participated in these programs. Results of these expeditions were summarized in Manu mammal lists by Patterson et al. (1992) and Pacheco et al. (1993), who presented the first detailed listing of mammals distributed in the reserve, documenting 190 species across 32 sampling localities. Voss and Emmons (1996) updated the mammal list for Cocha Cashu and Pakitza, tallying 139 species at this lowland "site". Meanwhile. Terborgh and Carol L. Mitchell executed the "Amazon Biodiversity Project," adding several species to Manu's list of mammals (Mitchell, 1998). Solari made additional trips to explore highland communities with support of the Chicago Zoological Society (Brookfield Zoo). Harald Beck of the University of Miami studied and sampled small terrestrial mammals at Cocha Cashu, which were reported in Beck (2002) and Leite-Pitman et al. (2003).

The far-more-complete bird list grew much more slowly and in less specified fashion through repeated visits by ornithologists and birders attracted to Manu's incomparable avifauna. An early list assembled by Charles Munn that included records from Fitzpatrick and Willard was published in the first MacQuarrie volume (Munn & Wust, 1992). Concerted sampling in the environs of Pakitza was reported by Grace Servat (1996). Barry Walker and associates continued to ply the slopes for additions to the bird list (Walker, 1998, and continuing). Incidental records by itinerant ornithologists continued into the 21st century.

The establishment of the Biotic Surveys and Inventories (BS&I) program at the National Science Foundation breathed new life into efforts to inventory hyperdiverse tropical biotas. Because a primary focus of the BS&I program is to generate collections and databases for unstudied groups and regions, the mammals and birds of Manu were not a high priority. Most Andean vertebrates are represented in collections even if many remain poorly known. However, the ectoparasites of these species surely were. No systematic collections or study had ever been devoted to the mites, ticks, fleas, chewing lice, sucking lice, bat flies, bot flies, and others that treat Andean mammals and birds as hosts, although Guerrero had published some novelties from early expeditions (Guerrero, 1996a, 1996b). We enlisted a cadre of collaborators to study these collections and recruited several ectoparasitologists to assist us in harvesting arthropods in the field.

Methods and Study Area

Our field plan called for sampling vertebrate and parasite communities over an elevational

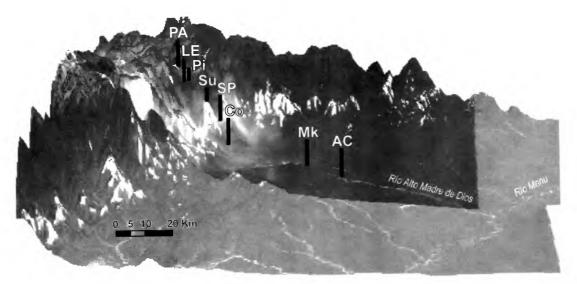


Fig. 1. A digital elevation model of Manu showing the elevational positions of the 8 collecting localities visited in 1999–2001.

gradient, to encompass the maximal range of habitats and inhabitants. Because the lowest stretches of the Manu reserve—including the Cocha Cashu Biological Station and the BIO-LAT research station at Pakitza—were the best sampled, we intentionally focused our work on higher elevations. There, the succession of habitats and their elevational limits are a complex product of biology, edaphic factors, temperature, and precipitation (Young, 1992).

Over a three-year span, we worked at eight sites distributed along an elevational gradient oriented by the Carretera Paucartambo-Shintuya and north of the axis created by this road along the Río Alto Madre de Dios (Fig. 1). Although the gradient was intended to be complete and balanced in itself, it was designed to complement and expand earlier sampling efforts (Pacheco et al., 1993). Teams of mammalogists, ornithologists, and parasitologists were assembled from the staff, students, and associates of the Field Museum and Museo de Historia Natural, Universidad de San Marcos (Figs. 2, 3). From 1999 to 2001, we took to the field during the dry season (August–November), although the "2000 field season" was eventually executed during March and April 2001. We spent three weeks at each elevation, using as many techniques as possible for documenting and collecting mammals and birds at each elevation and for harvesting their ectoparasites.

For mammals, we used mist nets at each elevation, placing them on the ground in likely flyways and as parts of extended net lines or hoisting them into trees in canopy sets. We also deployed arrays of both live (Tomahawk-National and Sherman traps) and snap traps (Museum Special and Victor rat traps) set in alternation and with vegetable and animal baits. We also employed lines of pitfall traps strung with drift fences. Where permitted, we used shotguns (.410 caliber and 20-gauge) and several times documented animals recently collected by indigenous hunters. When identifications were firm, we also made sight records while checking traps or nets or while conducting bird counts.

Birds were primarily collected using mist nets 12 m long and set at ground level in forest habitat; nets were typically placed in lines of 4 to 10 nets running along trails. We occasionally set single nets in patchy habitats or second growth. Additional birds came opportunistically from nets set specifically for bats. Typically these nets were single nets (6 and 12 m) placed in openings. Most were at ground level, although a few nets at most camps were elevated 5 m or more above the ground. At some camps (Aguas Calientes, Suecia, Maskoitania, and Consuelo), we also collected birds with shotguns.

Observations of birds not collected at the camps came from daily forays from camp. Each day, Stotz and Pequeño left camp before dawn



Fig. 2. Participants of the 1999 Zoological Expeditions to Manu: (back) Douglas F. Stotz, Máximo Careche, Sergio Solari, Navidad Avendaño, Matthew D. Dean, John Chavez, Lucia Luna, José G. Tello, Jessica Amanzo; (front) Bruce D. Patterson, Christian Albujar, Thomas P. Gnoske, Tatiana Pequeño.

on roads or trails and returned to camp in early afternoon. Some days, they returned to the field for one to two hours in the late afternoon. Approximately half the days, they remained together in the field, and half the days they covered portions of the area separately. All observations were made within a 5 km radius of camp. The elevations spanned by these observations varied with local topography and is given with other site-specific information below. Included among these observations are a few species only observed by companions: José Tello in 1999 and Brian O'Shea in 2000 and 2001.

Although the collections we made will be the subject of separate studies, both descriptive and monographic, we include some characterizations of each site to detail the provenience of listed species. Coordinates for each of these sites are listed beyond in the Gazetteer.

Aguas Calientes—450 m, a camp on the left bank of the Río Alto Madre de Dios, 2.75 km E (downstream) from Shintuya. The name derives from geothermal springs that empty into the

river near our camp, set in a clearing on the first terrace above the river. The camp lay at the foot of a 50-m slope leading up to various successions of lowland *terra firme* forest. Most sampling effort was concentrated on the forests of the upper terrace. Birds and larger mammals were observed from 500 to 650 m.

Maskoitania—480 m, an ecotourism camp on the left bank of the Río Alto Madre de Dios, about 13 km downstream from Atalaya. Our camp was 0.4 km from the landing beach, in a large grass-filled clearing surrounded by secondary lowland forest. Trails emanated from this site south along the river; west into thick, brushy, bamboo-filled forest; and to the northwest, where 3 km distant we encountered substantial glades of mature forest. Birds and mammals were observed from 450 to 500 m.

Consuelo—1000 m, a roadside camp set at the foot of a long ridge descending to the road from the WNW. Our lines and nets extended from the cloud forest at the crest of this ridge to the tropical riparian growth along the boulder-strewn Río Cosñipata far below the road. Several



Fig. 3. Participants of the 2001 Zoological Expeditions to Manu: (back) John Chavez, Carl W. Dick, Raul Cobos, Don Gettinger, Douglas F. Stotz, Bruce D. Patterson; (front) Máximo Careche, Sergio Solari, Ursula Paredes, Edith Suazo, Tatiana Pequeño, July Poma, Brian J. O'Shea.

glades of second-growth forest were sampled below the highway, and smaller patches of nearly pure bamboo were also trapped and netted. Observations of birds and mammals at this site spanned the 800- to 1200-m interval.

San Pedro—1450 m, an ecotourism lodge near the bridge by that name, along the road (near km marker 152). A large stream comes down from the west; several smaller creeks also feed into this. The slope is moderate, and small areas were flooded during our sampling. In the secondary forests of the area down the slope, the primary understory vegetation included thickets of Chusquea, which become monocultures in deforested regions. However, upslope, we sampled a relatively mature and humid forest, with large trees covered in epiphytes, and a dense understory composed of ferns, palms, and small trees also covered by mosses and epiphytes. Birds and larger mammals were observed from 1250 to 1700 m.

Succia—1920 m, a place marked by a roadside restaurant called "El Rocotal," opposite a cleared slope blanketed by pepper plants. Collecting lines and transects in cloud forests at this elevation extended perhaps 150 m above the camp and as much as 120 m below it, following the courses of the road and tumbling river. The upper (and steep) part reached a flat patch of cloud forest with tall, medium-sized trees (60 cm dbh) and rocky ground. We traveled along the road for up to 2 km in each direction, looking for accessible patches of undisturbed cloud forests to sample with nets and lines; observations here spanned the 1800- to 1822-m range. We sampled along several creeks, one studded with large boulders and flanked by small epiphyte-covered trees, others smaller and bordered by bushes.

Pillahuata—2450 m, a small, old settlement along the road (near km marker 128) in a particularly steep region (slopes often above 50); the area itself is severely affected by the road, which crosses those hills several times. Because of roadworks and the exposure, vegetation surrounding our camp was dryer than

typical forests at this elevation. Above Pillahuata, we sampled mammals in a mix of grassland and thorn scrubs; we also sampled in the forest around (through a few short trails); here the understory was open, with large trees covered with epiphytes and thick litter (20 cm). Birds and larger mammals were observed here from 2450 to 2700 m.

La Esperanza—2850 m, near a roadside restaurant and spring by that name. The region surrounding this camp marked an ecotone between mossy and elfin forests in mesic situations and more xeric ericaceous or chaparral-like brush on more open slopes. Certain trap and net lines followed the course of fast-flowing streams that eventually crossed the road, passing beneath bridges or culverts. Our observations of birds and larger mammals from this site ranged from 2750 to 2950 m.

Puesto de Vigilancia Acjanaco—3450 m, but also above (to 3550 m) in the pajonal near Abra Acjanaco or Cerro Macho Cruz, as well as below (to 3250 m) along Trocha Ericcson, a hiking trail from Puesto de Vigilancia Abra Acjanaco into the Manu Reserve. In the pajonal, the dominant vegetation is bunchgrasses (Poaceae) almost 1 m high, with a few sparse shrubs. Because of low slopes, high elevation and exposure, the climate is cold and wet and the vegetation open. Downslope, along Trocha Ericcson, mossy elfin forest blankets the steep, humid slopes of the narrow trail between elevations 3250 and 3350 m. Two small, almost dry creeks and one broad (50 m) landslide bisect this trail. To distinguish these two contrasting habitats, which were sampled from a single camp in our 1999 expedition, we have annotated specimen records from this site as PA and TE. Accordingly, records from our 1999 fieldwork at PA or TE appear boldfaced in Table 1. Bird and mammal observations along both the trail and the road ranged from 3100 to 3550 m.

For Tables 1 and 2, we compiled cumulative records of all mammals and birds documented in the Manu Biosphere Reserve. Most mammal records are documented by museum vouchers and are based on study (and in some cases restudy and reidentification) of specimens. As noted by Pacheco et al. (1993), most of these localities fall within the Cosñipata and Alto Madre de Dios drainages and the Cerros de Pantiacolla, with additional samples from Pakitza along the Río Manu; sight records and some vouchers document the fauna from Cocha

Cashu. Bird sampling was concentrated in the same areas but strengthened along the lower reaches of the Ríos Madre de Dios and Manu. Besides records from recent expeditions, we drew on the work of Fitzpatrick, Stotz, and their colleagues between 1980 and 1985; numerous trips through the region by Walker beginning in the mid-1990s; and publications on birds at Cocha Cashu (Bolster & Robinson, 1990; Terborgh et al., 1984). Fitzpatrick and Walker obtained additional records from other observers, mainly leaders of tours for bird-watchers through the area. There are a small handful of records based on other collections made in the region by Blake or C. Kalinowski in the 1950s (housed at FMNH) and Whitely in the 1870s. Elevations for the records come from altimeters or GPS readings and are rounded to the nearest 50 m.

Gazetteer

Following are localities documenting the distribution of mammals in the Manu Biosphere Reserve (Fig. 4). Coordinates, given in decimal degrees south latitude and west longitude, were determined from several sources: various museum records (FMNH, MUSM, and MVZ); published literature sources (LIT), especially Stephens and Traylor (1983) and Wilson and Sandoval (1996); the National Imagery and Mapping Agency's online database of foreign geographic feature names (GNS)—this database is now the official repository of foreign placename decisions approved by the U.S. Board on Geographic Names (USBGN); 1:100,000 series maps from the Instituto Geográfico Militar (IGM) del Peru; and by direct determination (GPS). Following a description of the locality are acronyms denoting the disposition of voucher materials: FMNH. Field Museum of Natural History, Chicago, Illinois; KU, Natural History Museum, University of Kansas, Lawrence, Kansas; MUSM, Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru; MVZ, Museum of Vertebrate Zoology, University of California, Berkeley; and USNM, National Museum of Natural History, Washington, D.C.

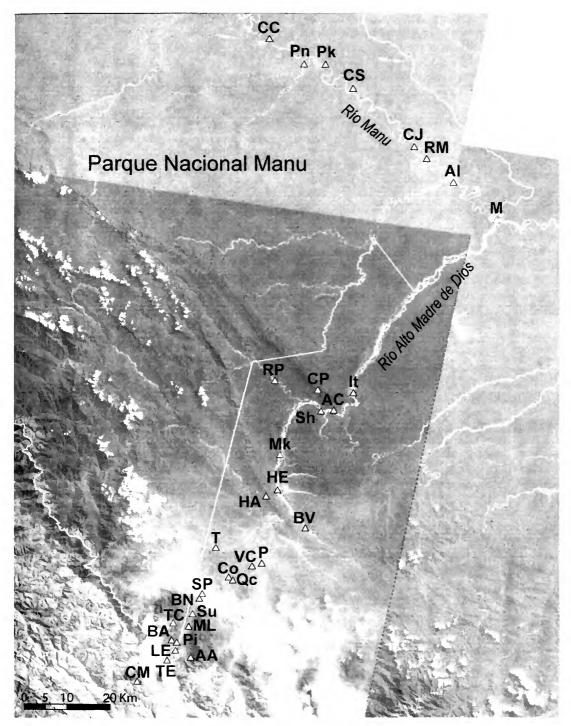


Fig. 4. Thirty-three localities sampled for small mammals and represented by codes in Table 1. Names and locations of these localities are given in the Gazetteer.

AC 12.6683 / 71.269 (GPS)
Aguas Calientes, Río Alto Madre de Dios, ca.
1 km below Shintuya (also Quebrada Aguas
Calientes, lest bank, Río Alto Madre de Dios,
2.75 km E Shintuya), 450-520 m (FMNH,
MUSM, MVZ).
A1
Altamira, 350–400 m (FMNH).
AM
Alto Río Madre de Dios, 15 km below
Shintuya, 420–430 m (FMNH, MUSM).
BA
Buenos Aires, carretera Paucartambo-Pilco-
pata, km 132, 2360 m (MUSM).
BN 13.2273 / 71.6196 (MUSM)
Albergue Bosque de las Nubes (also Bosque de
las Nubes, carretera Paucartambo-Pilcopata,
km 150, Puente Union; Est. Biol. Bosque
Nublado), 1480–1800 m (MUSM).
BV
Puerto Buena Vista (= El Carbon) 550 m
(FMNH).
CC
70 km NW mouth of Río Manu on Río
Manu; Río Manu, 70 Airline km above
Mouth, N Bank), 380 m (AMNH, MUSM,
MVZ, USNM).
CJ 12.0184 / 71.2147 (MUSM)
Cocha Juares (also Río Manu, 40 km up from
mouth), 365 m (MUSM).
CM
Cerro Macho Cruz, above Puesto de Vigilan-
cia Abra Acjanaco, 3450 m (MUSM).
Cñ
Cosñipata, 1000 m (FMNH).
Co 13.0236 / 71.49185 (GPS)
Consuelo, 15.9 km SW Pilcopata (also Con-
suelo, km 165, 17 km by rd W of Pilcopata),
1000-1400 m (FMNH, MUSM).
CP 12.5833 / 71.25 (LIT)
Cerro de Pantiacolla (also Cerro de Pantia-
colla, above Río Palotoa; Cerro de Pantia-
colla, E slope near summit), 900-1300 m
(FMNH).
CS
Cocha Salvador (Río Manu, ca. 50 km from
mouth; also Río Manu, Salvador), 370 m
(FMNH, MUSM, USNM).

HA 12.8773 / 71.3865 (FMNH)

Hacienda Amazonia (Alto Río Madre de Dios.

Hacienda Amazonia: also Hacienda Amazonia. ridge above). 500-1050 m (FMNH,

- Hacienda Erika, Río Alto Madre de Dios opposite Salvacion, 350-500 (MVZ). Itahuania, 450 m (FMNH, MUSM). LE 13.1777 / 71.6045 (GPS) La Esperanza (39 km NE [by road] Paucartambo, km 119), 2850-3240 m (FMNH, MUSM, MVZ). Manu (Boca Río Manu, near Manu) 365 m (FMNH, MUSM, USNM). Mk 12.7717 / 71.3855 (GPS) Maskoitania, 13.4 km NNW Atalaya, left bank Río Alto Madre de Dios, 480 m (FMNH, MUSM).

 - P. 12.9018 / 71.3742 (MUSM) Pilcopata, Queros (also Pilcopata, Sabaluyo), 350 m (MUSM).

MUSM).

- Shintuya (Yanamayo [Shintuya]), 420–450 m (FMNH, MUSM).

Acknowledgments

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Mammals of the Manu Biosphere Reserve*

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Mammals occurring in the Manu Biosphere Reserve. New additions to the faunal list are denoted by asterisks; common names not used by contributors to Wilson and Reeder (2005) are denoted by carets. Records documented during recent NSF-funded surveys of the reserve are in boldface, first listing those with museum vouchers, while sight, sound, or sign records appear in parentheses. Locality codes and their locations are listed in the Gazetteer and shown in Figure 4. Minimum and maximum elevations along the Manu transect are in meters.

	Common name	Localities	Min M	Max
Didelphimorphia				
Didelphidae				
Caluromys lanatus	Brown-eared Woolly Opossum	VC (CC)	380	600
Caluromysiops irrupta	Black-shouldered Opossum	It (CC)	380	450
Chironectes minimus	Water Opossum	HÈ, Sh, VC (CC, Pk)	350	600
Didelphis marsupialis	Common Opossum	Al, Co, (CC, Pk, SP, Su)	400 1	920
Glironia venusta	Bushy-tailed Opossum	(CC)	380	380
* Gracilinanus aceramarcae	Aceramarca Gracile Opossum	LE ´	2880 2	2880
Gracilinanus agilis ¹	Agile Gracile Opossum	Pk	350	350
Marmosa andersoni	Anderson's Mouse Opossum ²	VC	600	600
Marmosa quichua ³	Quechuan Mouse Opossum	Pk, SI (CC)	350 1	700
Marmosa rubra	Red Mouse Opossum	VĆ	600	600
Marmosops bishopi ⁴	Bishop's Slender Opossum	AC, CC, Pk, VC	350	600
Marmosops impavidus	Tschudi's Slender Opossum	SP, VC	600 1	460
Marmosops noctivagus	White-bellied Slender Opossum	Al, BN, CC, Co, HA, Mk,	350 1	920
2	•	P, Pk, SP, Su		
Metachirus nudicaudatus	Brown Four-eyed Opossum	AC, CC, Co, HE, M, Mk, Pk, SP	350 1	480
Micoureus regina	Bare-tailed Woolly Mouse Opossum	Al, CC, Co, HA, lt, Mk, Pk	400 1	1050
Monodelphis emiliae	Emilia's Short-tailed Opossum	CC	380	380
Monodelphis glirina ⁵	Amazonian Red-sided Opossum	CC, Pk	350	380
Monodelphis peruviana ⁶	Peruvian Short-tailed Opossum [^]	HA, Pi, SP, Su	825 2	2460
* Monodelphis ronaldi ⁷	Pine's Short-tailed Opossum	Pk	350	350
Philander opossum	Gray Four-eyed Opossum	AC, HE, Pk (CC)	350	500

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	Common name	Localities	Min Max
Paucituberculata			
Caenolestidae			
Lestoros inca	Incan Shrew Opossum	AA, LE, ML, Pi, SP, TE	2190 3350
Cingulata			
Dasypodidae			
Dasypus novemeinetus	Nine-banded Armadillo	VC (CC, Co)	380 1000
Priodontes maximus	Giant Armadillo	(CC)	380 380
Pilosa			
Bradypodidae			
Bradypus variegatus	Brown-throated Sloth	(AC, CC, Pk)	350 500
Megalonychidae	Brown uneared stem	(110)	220 200
Choloepus hoffmanni	Hoffmann's Two-toed Sloth	HA (Pk)	350 500
Cyclopedidae ⁸	Hollmaini 3 Two-tocd Slotti	11/1 (1 K)	330 300
Cyclopes didactylus	Silky Anteater	(CC)	380 380
	Silky Afficater	(CC)	200 200
Myrmecophagidae	Ciant American	(CC Db)	250 200
Myrmecophaga tridactyla Tamandua tetradactyla	Giant Anteater Southern Tamandua	(CC, Pk) (CC, Pk)	350 380 350 380
·	Southern Tamandua	(CC. 1 K)	330 360
Primates ⁹			
Cebidae		K	
Callimico goeldii	Goeldi's Marmoset	Al (CC)	380 400
Callithrix pygmaea	Pygmy Marmoset	(CC, Pk)	350 380
Cebus albifrons (cuscinus) Cebus apella (peruanus)	White-fronted Capuchin Tufted Capuchin	Al (CC, Pk) Al, lt (AC, CC, Co, Mk,	350 400 350 1460
ceous apena (pernamas)	runca Capacinii	Pk. SP)	220 1400
Saguinus fuscicollis	Brown-mantled Tamarin	AC, It (CC, Pk)	350 450
Saguinus imperator	Emperor Tamarin	Al, It (CC, Pk)	350 400
* Saguinus mystax ¹⁰	Black-chested Mustached Tamarin	PB	350 350
Saimiri boliviensis	Black-capped Squirrel Monkey	AC, Al. It (CC, Mk, Pk)	350 450
(<i>peruviensis</i>) Aotidae			
Aotus nigriceps	Black-headed Night Monkey	AC, Al, HE, VC (CC, Co.	350 1550
Toms ingriceps	Buck headed Pight Workey	Mk, Pk, SP)	330 1330
Pitheciidae			
Callicebus brunneus	Brown Titi	AC, Al. It (CC. Pk)	350 450
Pithecia irrorata	Gray Monk Saki 11	Al (CC)	380 400
Atelidae Alouatta sara	Bolivian Red Howler	It (CC, Mk, Pk)	250 450
Ateles chamek ¹²	Peruvian Spider Monkey	It (CC, NK, FK)	350 450 350 450
Lagothrix cana (tschudii)	Gray Woolly Monkey	CS. P. Su (CC. Co. ML,	350 2150
	,	Pk, SP)	
Lagomorpha			
Leporidae			
Sylvilagus brasiliensis	Tapeti	AC, Co, Mk, P, VC (CC,	350 1000
Chiroptera		Pk)	
Emballonuridae			
Cormura brevirostris	Chestnut Sac-winged Bat	HA	680 680
Peropteryx kappleri	Greater Dog-like Bat	VC	600 600
* Peropteryx leucoptera	White-winged Dog-like Bat	AC	450 450
Rhynchonycteris naso	Proboscis Bat	Pk (CC)	350 380
Saccopteryx bilineata	Greater Sac-winged Bat	Mk, Pk	350 480
Saccopteryx leptura Phyllostomidae	Lesser Sac-winged Bat	AC, P	350 450
Phyllostomidae Anoura caudifer	Tailed Tailless Bat	AC, Co, CP, HA, HE, Mk,	340 1020
- income constitut	ranca ranness Bat	Pk, SP, Su, T	J#U 1740
Anoura cultrata	Handley's Tailless Bat	CP, Su	975 1920

	Common name	Localities	Min Max
Anoura geoffroyi	Geoffroy's Tailless Bat	Co, CP, HA, LE, Pi, Su, T,	780 3350
Anoura sp. nov. 13	Andean Tailless Bat	TE LE, Pi, TE	2450 3320
Artibeus lituratus	Great Fruit-eating Bat	AC, Co, HA, HE, Mk, Pk,	
Artibeus obscurus	Dark Fruit-eating Bat	RP, T (CC) AC, CJ, Co, CP, CS, HA, HE, Mk, Pk, RP, T	340 1030
Artibeus planirostris ¹⁴	Flat-faced Fruit-eating Bat*	(CC) AC, Co, CS, HA, HE, M,	340 1050
Carollia henkeithi ¹⁵	Southern Chesnut Short-tailed Bat	Mk, Pk (CC) AC, AM, CJ, Co, CS, HA, M, Mk, Pk, RP, Sh, T	340 1000
Carollia brevicanda	Silky Short-tailed Bat	(CC) AC, AM, BN, CJ, Co, CP, CS, HA, M, Mk, P, Pk,	340 1700
Carollia mamı ¹⁶ Carollia perspicillata	Manu Short-tailed Bat [^] Seba's Short-tailed Bat	Qc, RP, SP, T (CC) BN, CP, ML, SP AC, AM, CC, CJ, Co, CP, CS, HA, M, Mk, P, Pk, RP, Sh, T	1300 2250 340 1300
Chiroderma salvini Chiroderma trinitatum	Salvin's Big-eyed Bat Little Big-eyed Bat	AC, Co, HA, Mk, Su, T AC, CC, Co, HA, Mk, Pk, T	450 1920 340 1000
Chiroderma villosum	Hairy Big-eyed Bat	AC, CC, CS, HA, Mk, Pk,	340 950
Choeroniscus minor	Lesser Long-tailed Bat	T HA, Mk , Pk	340 825
Chrotopterus auritus	Woolly False Vampire Bat	AC, HA (CC)	380 520
Dermanura anderseni ¹⁷	Andersen's Fruit-eating Bat	AC, AM, CC, Co, HA, HE, Mk, Pk, RP, Sh	340 1000
Dermanura glauca	Silvery Fruit-eating Bat	AC, BN, Co, CP, HA, Mk, ML, Pi, Qc, SP, Su, T, TE (CC?)	450 3350
Dermanura gnoma	Dwarf Fruit-eating Bat	AC, HA, Mk, Pk	340 680
Desmodus rotundus	Common Vampire Bat	HA, HE, Mk, Pk	340 680
Diphylla ecandata	Hairy-legged Vampire Bat	CP, HE, Pk	350 900
Enchisthenes hartii	Velvety Fruit-eating Bat	AC, BN, Co, CP, HA, Mk, Pi, Qc, Su, SP, T	450 2600
Glossophaga commissarisi	Commissaris's Long-tongued Bat	Pk	350 350
Glossophaga soricina	Pallas's Long-tongued Bat	HA, HE, Pk	340 950
Glyphonycteris daviesi	Graybeard Bat	Pk	350 350
Lampronycteris brachyotis	Orange-throated Bat	(CJ)	365 365
Lichonycteris obscura	Dark Long-tongued Bat Chestnut Long-tongued Bat	Pk	350 350
Lionycteris spurrelli * Lonchophylla handleyi	Handley's Nectar Bat	AC, CP, HA, Mk AC	450 1050 450 450
Lonchophylla thomasi	Thomas's Nectar Bat	AC, CC, Co, HA, HE, Mk, P, Pk, RP	
* Lonchorhina aurita	Common Sword-nosed Bat	Co, Mk	480 1000
Lophostoma brasiliense ¹⁸	Pygmy Round-eared Bat	HE, Pk, RP	340 500
* Lophostoma carrikeri	Carriker's Round-eared Bat	Mk	480 480
Lophostoma silvicolum ¹⁹	White-throated Round-eared Bat	AC, CP, Co, HA, HE, It, M, Pk	350 1000
Macrophyllum macrophyllum	Long-legged Bat	Pk	340 340
Mesophylla macconnelli	MacConnell's Bat	AC, Al, CC, Co, HA, Pk, T	
Micronycteris hirsuta	Hairy Big-eared Bat	AC, RP	490 520
Micronycteris megalotis	Little Big-eared Bat	Co, HA, Mk, Pk, Pi, RP	350 2600
Micronycteris minuta Micronycteris schmidtorum	Tiny Big-eared Bat Schmidts' Big-eared Bat ²⁰	HA, Mk , Pk HA, Pk, RP	350 500 350 680
Mimon crenulatum	Striped Hairy-nosed Bat	Co, HA, Pk	350 1400
Phylloderma stenops	Pale-faced Bat	AC, Co, Pk (CC)	350 1200
Phyllostomus elongatus	Lesser Spear-nosed Bat	AC, Co, CS, HA, HE, M,	340 1180

	Common name	Localities	Min Max
Phyllostomus hastatus	Greater Spear-nosed Bat	AC, BV, Co, HA, HE, It, Mk, Pk, RP (CC)	340 1000
* Platyrrhinus albericoi ²¹	Alberico's Broad-nosed Bat	Pi, SP. Su	1480 2460
Platyrrhinus brachycephalus	Short-headed Broad-nosed Bat	AC, Co, HA, HE, Mk, Pk RP, T (CC?)	
Platyrrhinus helleri	Heller's Broad-nosed Bat	AC, CC, Co, HA, HE, Mk Pk, RP, T	, 350 1400
Platyrrhinus infuscus	Buffy Broad-nosed Bat	AC, Co, CP, HA, HE, It, Mk, Pk, RP, T	340 1300
Platyrrhimus masu ²²	Quechuan Broad-nosed Bat	Co, CP, HA, HE, LE, Pi, Qc, SP, Su, TE	350 3350
Platyrrhinus nigellus ²³	Blackish Broad-nosed Bat	AC, BN, Co, CP, HA, Qc RP, SP, T	460 1700
Rhinophylla pumilio	Dwarf Little Fruit Bat	AC, HA, HE, Mk, Pk	350 825
Sphaeronycteris toxophyllum	Visored Bat	(CC)	380 380
Sturnira erythromos	Hairy Yellow-shouldered Bat	AA, BN, HA, LE, ML, Pi SP, Su, TE	, 1050 3450
Sturnira lilium	Little Yellow-shouldered Bat	AC, Co, HA, HE, Mk, Pk Qc, RP, SP, T	, 350 1500
Sturnira magna	Greater Yellow-shouldered Bat	AC, Co, CP, HA, HE, SP, Su, T	350 1920
Sturnira oporaphilum	Tschudi's Yellow-shouldered Bat	BN, Co, CP, HA, SP, T	500 1700
Sturnira tildae	Tilda's Yellow-shouldered Bat	AC, HA, Mk, Pk	340 780
Tonatia saurophila	Stripe-headed Round-eared Bat	CP, HA, Pk (CC)	380 1030
Trachops cirrĥosus	Fringe-lipped Bat	AC, CP, CS, HE, M, Mk, Pk (CC)	340 975
Uroderma bilobatum	Common Tent-making Bat	AC, Co, CP, HA, HE, Mk Pk, RP, T (CC)	, 340 1050
Uroderma magnirostrum	Brown Tent-making Bat	AC, CC, Mk, Pk	340 520
Vampyressa melissa	Melissa's Yellow-eared Bat	BN, Co, Qc, SP	1000 1700
Vampyressa thyone ²⁴	Northern Little Yellow-eared Bat	AC, Co, HA, Pk, T (CC)	350 1000
Vampyriscus bidens ²⁵	Bidentate Yellow-eared Bat	AC, CP, CS, HA, Pk, T	350 1050
Vampyrodes caraccioli	Great Stripe-faced Bat	AC, Co, CP, HA, Mk, Pk	
Vampyrum spectrum	Spectral Bat	HA (CC)	380 820
Noctilionidae Noctilio albiventris	Lassan Dulldan Dut	MI. Dl. (CC)	240 490
Noctilio albiventris Noctilio leporinus	Lesser Bulldog Bat Greater Bulldog Bat	Mk, Pk (CC) Pk	340 480 350 350
Furipteridae	Greater buildog bat	PK	350 350
Furipterus horrens	Thumbless Bat	HA, Pk, T	350 900
Thyropteridae	mamoress but	1171, 1 K, 1	330 700
* Thyroptera lavali	LaVal's Disk-winged Bat	Mk	480 480
Thyroptera tricolor	Spix's Disk-winged Bat	HA, Pk (CC)	340 680
Molossidae			
Molossus molossus	Pallas's Mastiff Bat	HA, HE, Pk, Sh, T	350 950
* Molossus rufus	Black Mastiff Bat	Co	1000 1000
Nyctinomops laticaudatus	Broad-eared Free-tailed Bat	Pk	350 350
* Tadarida brasiliensis	Brazilian Free-tailed Bat	Pi	2460 2600
Vespertilionidae Eptesicus brasiliensis	Provilian Provin Dat	LE D: C.,	1000 2000
* Eptesicus chiriquinus	Brazilian Brown Bat Chiriquinan Serotine	LE, Pi, Su Co, Mk	1900 2880 480 1000
Eptesicus furinalis	Argentinian Brown Bat	ML, T	900 2250
* Lasiurus blossevillii	Red Bat	Pi	2460 2460
Lasiurus ega	Southern Yellow Bat	Pk	350 350
Myotis albescens	Silver-tipped Myotis	AC, HE, Mk, Pk	340 480
Myotis keaysi	Hairy-legged Myotis	AC, HA, Mk, Pi, SP, Su, TE	450 3450
Myotis nigricans	Black Myotis	AC, Co, HA, Mk, Pk, RP, T, VC (CC)	350 1050
* Myotis oxyotus	Montane Myotis	LE, Pi	2600 3170

	Continued.			
	Common name	Localities	Min	Max
Myotis riparius	Riparian Myotis	AC, Co, HA, HE, Mk, Pk, SP	350	1480
Myotis simus	Velvety Myotis	Pk	350	350
Carnivora				
Felidae				
Leopardus pardalis	Ocelot	AC, Al, M (CC, HE, Pk)	350	450
* Leopardus tigrinus ²⁶	Oncilla	(SP)		1460
Leopardus wiedii	Margay	Al, CS (CC)	370	400
Panthera onca	Jaguar	Cñ (CC, HÉ, Pk)	350	1000
Puma concolor	Cougar	(CC, CM, Pk, Su)	350	3450
Puma yagouaroundi	Jaguarundi	(Mk, ML, Pk)	350	2200
Canidae	C	, ,		
Atelocynus microtis	Short-eared Dog	AC, Al (CC)	380	450
Lycalopex culpaeus	Culpeo	(CM, PA)	3450	3450
* Speothos venaticus ²⁷	Bush Dog	(CC)	380	380
Ursidae	8	,		
Tremarctos ornatus	Spectacled Bear	(BN, CM, ML, Pi, Su)	1920	3450
Mustelidae	1	, , , , , , ,		
Eira barbara	Tayra	(CC, Mk, Pk, Su)	350	1920
Galictis vittata	Greater Grison	(CC)		380
Lontra longicaudis	Neotropical Otter	Al (CC, Co, Pk, Mk)		1000
* Mustela africana ²⁸	Amazon Weasel	(CC)		380
Mustela frenata	Long-tailed Weasel	TE	3350	
Pteronura brasiliensis	Giant Otter	Al (CC, Pk)		400
Mephitidae		(00, 11.)		•••
Conepatus chinga	Molina's Hog-nosed Skunk	PA (CM, LE, Pi)	2520	3450
Procyonidae	months and most sham	(6, 22, 1.)		
Bassaricyon alleni ²⁹	Allen's Olingo	(CC)	380	380
Nasua nasua	South American Coati	Al (CC, Co, Mk, Pk, SP)		1450
Potos flavus	Kinkajou	AC, Co, It (CC, Mk Pk,		1460
Procyon cancrivorus Perissodactyla	Crab-eating Raccoon	SP) (CC, Co, Mk)	380	1000
Tapiridae				
Tapirus terrestris	South American Tapir	(AC, CC, Co, Mk, Pk)	350	1000
Artiodactyla	•			
Artiodactyla				
Tayassuidae	C 11 1 D	AC (CC PI)	350	450
Pecari tajacu	Collared Peccary	AC (CC, Pk)	350	
Tayassu pecari	White-lipped Peccary	Mk (CC, Pk)	350	480
Cervidae	W 1.5	(P1)	250	2.00
Blastoceros dichotomus ³⁰	Marsh Deer	(Pk)	350	
Mazama americana	South American Red Brocket	Mk (CC, Pk)		480
Mazama chunyi	Dwarf Brocket	(Pi, TE)	2450	
Mazama gouazoubira	South American Brown Brocket	(CC)	380	
Odocoileus peruvianus ³¹	Peruvian White-tailed Deer^	LE, PA (CM)	2880	3450
Rodentia				
Sciuridae				
Microsciurus flaviventer	Amazon Dwarf Squirrel	AC, Al, Co, CP, HA, It (CC)	380	1000
Sciurus ignitus	Bolivian Squirrel	Al, M, VC (Pk)	350	600
Sciurus igniventris	Northern Amazon Red Squirrel	HA (VC)	600	
Sciurus sanborni ³²	Sanborn's Squirrel	Al, M	350	
Sciurus spadiceus	Southern Amazon Red Squirrel	AC, M, VC (CC, Pk)	350	
* Sciurus sp. 33	[Red Squirrel—possibly new]	(Su)	1920	
Cricetidae ³⁴	r and dimension becomes manif		_,	
	Yungas Akodont	BN, Co, ML, SP, Su	1000	2250
Akodon aerosus	Puno Akodont	AA, CM, LE, PA, Pi, Su	1900	
Akodon subfuscus	Cloud Forest Akodont	AA, CM, LE, FA, FI, Su AA, CM, LE, ML, PA, Pi,		
Akodon torques	Cioud I ofest Akodolit	Su, TC, TE	2170	5025

	Common name	Localities	Min Max
Holochilus sciureus	Amazonian Marsh Rat	CC, M	365 380
Microryzomys minutus	Montane Colilargo	AA, LE, PA, Pi, SP, Su,	1900 3625
* **	Mussar's Nagaamus	TC, TE	450 1460
* Neacomys musseri Neacomys spinosus	Musser's Neacomys Common Neacomys	AC, SP CC, Co, HE, Mk, Pk, SP,	450 1460 340 1480
weacomy's spinosus	Common reacomys	VC	340 1400
* Neacomys sp. nov. ³⁵	[New Neacomys]	SP, Su	1480 2100
Nectomys garleppii ³⁶	Garleppi's Water Rat	AC, Co, HA, Pk, SP, VC	340 1500
	B : I I I I	(CC)	240 450
Neusticomys peruviensis ³⁷ Oecomys bicolor	Peruvian Ichthyomyine White-bellied Oecomys	AC, Pk AC, Al, CC, Co, HA, Pk	340 450 340 1000
Oecomys vicoioi Oecomys phaeotis	Dusky Oecomys	BN, SP, Su, VC	600 1920
Oecomys roberti	Robert's Oecomys	CC, Co, It, Pk	350 1000
Oecomys superans	Large Oecomys	CC, HE, Pk	340 500
* Oecomys trinitatis ³⁸	Long-furred Oecomys	CC	380 380
* Oligoryzomys andinus ³⁹	Andean Colilargo	SP, Pi, PA?	1480 3450
* Oligoryzomys destructor	Tschudi's Colilargo	LE, Pi, SP, Su	1480 2880
Oligoryzomys microtis	Small-eared Colilargo	AC, CC, Co, HA, M, Mk P, Pk, Sh, Su, VC	, 340 1900
Oligoryzomys sp. B ⁴⁰	Colilargo species B	AA, CM, LE, PA	2850 3450
Oryzomys keaysi	Keays' Oryzomys	BN, Co, ML, Pi, Qc, SP,	
		Su	
Oryzomys levipes	Nimble-footed Oryzomys	AA, BN, LE, ML, Pi, SP,	1700 3140
0 ""	M G W G	Su	200 450
Oryzomys macconnelli Oryzomys nitidus	MacConnell's Oryzomys	AC, CC	380 450
Oryzomys nutaus	Elegant Oryzomys	CC, Co, CP, HA, Mk, Pk RP	, 340 1030
Oryzomys perenensis	Western Amazonian Oryzomys	AC, Al, CC, Co, CS, HA,	340 1400
		HE, It, M, Mk, Pk, RP	
* 0 41		VC	200 200
* Oryzomys yunganus ⁴¹ * Oryzomys sp. nov. ⁴²	Amazonian Oryzomys [New Rice Rat]	CC Pi	380 380
Oxymycterus inca	Inca Hocicudo	Co, Mk, P, SP, VC	2460 2460 350 1480
Oxymycterus med Oxymycterus paramensis	Yungas Hocicudo	CM, PA	3350 3450
Phyllotis osilae	Bunchgrass Pericote	PA	3450 3450
* Rhagomys longilingua ⁴³	Long-tongued Rhagomys	Mk, Su	480 1920
Rhipidomys gardneri 44	Gardner's Rhipidomys	Pk, SP (CC)	350 1480
* Thomasomys daphne	Daphne's Thomasomys	AA, LE, Pi, TE	2460 3450
Thomasomys notatus Thomasomys sp. nov. ⁴⁵	Dusky-footed Thomasomys Golden Thomasomys	Pi, SP, Su AA, BA, LE, ML, Pi, SP,	1460 2460
Thomasomys sp. nov.	Golden Thomasomys	Su, TE	1400 3420
Thomasomys sp. nov. 46	Montane Thomasomys	AA, LE, Su, TC, TE	1900 3505
Erethizontidae	•		
Coendou bicolor	Bicolor-spined Porcupine	AC (CC, Pk)	350 480
Dinomyidae	D.	66.6	200 1000
<i>Dinomys branickii</i> Caviidae	Pacarana	CC, Co	380 1000
Cavia tschudii	Montane Guinea Pig	PA	3450 3450
Hydrochoeridae	Montane Guinea Fig		3430 3430
Hydrochoerus hydrochaeris	Capybara	Al (CC, Pk)	350 400
Dasyproctidae			
Dasyprocta variegata ⁴⁷	Brown Agouti	Al, M (CC, Co, Pk)	350 1000
Myoprocta pratti	Green Acouchy	Al, CC (Pk)	350 400
Cuniculidae			
Charles Inc.	Lowland Paca	AC, Co (CC, Pk)	350 1000
Cuniculus paca	Manustain Daga	BN, PA, Su, TE (Pi, LE)	1920 3450
Cuniculus taczanowskii	Mountain Paca		
Cuniculus taczanowskii Echimyidae			
Cuniculus taczanowskii	Bolivian Bamboo Rat Amazon Bamboo Rat	Co, Mk (CC, Pk, SP)	480 1450 850 900

	Common name	Localities	Min Max
Mesomys hispidus	Ferreira's Spiny Tree Rat	CC, Pk	340 380
Pattonomys occasius ⁴⁹	Bare-tailed Armored Tree Rat	(CC)	380 380
Proechimys brevicauda	Short-tailed Spiny-Rat	CC, Pk	350 380
Proechimys pattoni 50	Patton's Spiny-Rat	Mk, Pk	340 480
Proechimys simonsi	Simons' Spiny-Rat	AC, Co, HE, It, M, Mk,	340 1180
Proechimys steerei	Steere's Spiny-Rat	Pk, Qc, VC CC, It, M, Pk	340 450

Total Species recorded to date: 222 Species

Taxonomic notes

- ¹ Recent work (Costa et al., 2003) shows that *Gracilinanus agilis* occurs primarily in the Cerrado, so this could actually be *G. buenavistae* or *G. peruana* (see Voss et al., 2005).
- ² In keeping with other honorific names for mouse opossums, the common name for this species has been changed from that in Gardner (2005).
- ³ Voss et al. (2001) recognized it as a valid species from western Amazonia, different from *M. murina* which is apparently restricted to the Guyanas. Its type locality (Ocobamba, Cuzco) is close to MBR.
- ⁴ Previously listed by Pacheco et al. (1993) as *Marmosops parvidens* but distinguished from that form by Voss et al. (2001).
- ⁵ Previously listed by Pacheco et al. (1993) as *Monodelphis brevicaudata*, this follows the usage of Voss et al. (2001).
- ⁶ Recognition of *Monodelphis peruviana* as specifically different from *M. adusta*, previously listed by Pacheco et al. (1993), follows unpublished analyses by Solari.
 - ⁷ This new species of short-tailed opossum was described by Solari (2004) from a specimen taken at Pakitza.
- ⁸ Allocation of the silky anteater to a family of its own follows reappraisals of its distinctions by McKenna and Bell (1997), Gaudin and Branham (1998), and Delsuc et al. (2002).
- ⁹ Substantial changes in the higher-level classification of Primates reflect ongoing phylogenetic studies—many informed by molecular sequence analyses—and the reclassifications of Rylands et al. (2000) and Groves (2001).
- ¹⁰ This new record for the MBR is based on a sight record by Leite-Pitman et al. (2003) from Playa Bonita, at the northern border of Manu National Park.
- ¹¹ In view of its broad distribution outside the Rio Tapajóz drainage, the more descriptive name used in Wilson and Cole (2000) and in various governmental listings is employed here.
- ¹² Collins and Dubach (2000) demonstrated the distinction of *Ateles chamek* from *A. paniscus*, placing it closer to *A. belzebuth*.
 - ¹³ This high-elevation species is being described by V. Pacheco, S. Solari, and R. Cadenillas.
- ¹⁴ Simmons (2005) listed *planirostris* as a synonym of *A. jamaicensis*, but Lim et al. (2004) showed that the two are distinct and not each other's sisters, recovering the relationships ((((obscurus + planirostris) + amplus) + (lituratus + intermedius)) + jamaicensis).
 - ¹⁵ Formerly listed as Carollia castanea, this new species was described by Solari and Baker (2006).
- ¹⁶ This new species from southeastern Peru and northern Bolivia was described by Pacheco et al. (2004) from specimens collected in the Cosñipata Valley.
- ¹⁷ Many authorities have treated *Dermanura*, *Koopmania*, and *Enchisthenes* as subgenera of an inclusive *Artibeus*. None disputes the monophyly of these taxa (*Koopmania* and *Enchisthenes* are monotypic) or the monophyly of an *Artibeus-Koopmania-Dermanura* clade. We follow Van Den Bussche et al. (1998) in according generic status to both *Dermanura* and *Enchisthenes*. Although *D. cinerea* had been included in earlier checklists of Manu (e.g., Pacheco et al., 1993), Solari and coworkers (in prep.) restrict this species to northern South America. Specimens formerly listed as *D. cinerea* instead represent *D. anderseni*.
 - ¹⁸ Use of *Lophostoma* instead of *Tonatia* for these species follows Lee et al. (2002).
- ¹⁹ This usage follows Simmons (2005), who employed the name that d'Orbigny and Gervais associated with the text description ("silvicohum"), not the revised plate associated with it ("sylvicohum").
- ²⁰ The etymology of this scientific name was in honor of brothers Frank and Karl Schmidt; the common name is accordingly amended here to reflect its plural character.
- ²¹ This large, brightly striped species represents the southern member of what was formerly known as *P. vittatus*; it was described by Velazco (2005) from specimens collected during the recent transect.

- ²² This montane-forest species was formerly reported as *P. dorsalis* but corresponds to a new species described by Velazco (2005) from transect-collected specimens.
- ²³ This species was formerly reported as *P. lineatus* (Pacheco et al., 1993) and is treated as a synonym of that species by Simmons (2005). Distinction of *P. nigellus* from *P. lineatus* follows Velazco and Solari (2003) and is supported by phylogenetic analyses of Velazco (2005).
- ²⁴ This species was distinguished from *Vampyressa pusilla*, as this species had been previously listed (Pacheco et al., 1993), by the molecular analyses of Lim et al. (2003).
- ²⁵ Porter and Baker (2004) have shown that *Vampyressa* s.l. is paraphyletic—*M. macconnelli* is sister to a group of species (including *melissa*, *thyone*, and *pusilla*) properly called *Vampyressa*, but a second group of species is basal to that clade. Accordingly, they allocated *brocki* and *bidens* to the genus *Vampyriscus* and separate *Mesophylla* from the Central American *Ectophylla*, where it sometimes has been placed.
- ²⁶ During our field survey at San Pedro (2000), Roland Kays identified this small spotted cat over a bamboo field near our camp.
 - ²⁷ New MBR record based on a sight record and tracks from Cocha Cashu, by Leite-Pitman et al. (2003).
 - ²⁸ This new record for MBR is based on track records at Cocha Cashu by Leite-Pitman et al. (2003).
- ²⁹ Use of *Bassaricyon alleni* for Peruvian populations of olingo (in place of *B. gabbii* as this record was previously listed) follows Wozencraft (2005).
- ³⁰ For purposes of their meta-analysis, Voss and Emmons (1996) excluded Pacheco and Vivar's (1996) record of swamp deer from their list of forest animals of Cocha Cashu and Pakitza, believing it to be a savanna transient. However, there is no question concerning the accuracy or authenticity of the record.
- ³¹ Recognition of Peruvian white-tailed deer as the distinct species *Odocoileus peruvianus* follows the provisional treatment of Molina and Molinari (1999).
- ³² Recognized as a valid species by Thorington and Hoffmann (2005); however, its status was early questioned by Voss and Emmons (1996).
- ³³ On two occasions during our camp at Suecia, different parties observed a small reddish-brown squirrel obviously larger than *Microsciurus* yet decidedly smaller than *Sciurus igniventris* or *S. spadiceus*. It appeared less reddish and more brown than *S. pyrrhinus* from the Huallaga drainage but may be related to that form.
- ³⁴ Inclusion of the subfamily Sigmodontinae in Cricetidae instead of Muridae follows Steppan et al. (2004) and Musser and Carleton (2005).
 - 35 This species is being described by Luna and Patterson.
- ³⁶ Amazonian *Nectomys* are distinguished from *Nectomys squamipes* of the Atlantic Forest by their chromosomes (Bonvicino et al., 1996). Species limits in Amazonian water rats, especially *N. apicalis* and *N. garleppii*, need further investigation (Patton et al. 2000). With a type locality in Ocobamba, Cuzco, the name *garleppii* certainly applies to Manu populations, whether or not it proves to be distinct from *apicalis*.
 - ³⁷ Pending further study, the two ichthyomyine records for MBR are listed as a single species.
 - ³⁸ New record based on specimens from Cocha Cashu reported by Leite-Pitman et al. (2003).
- ³⁹ This seems to be the best name for this small and grayish "colilargo," which occurs within the geographic and altitudinal range described by Carleton and Musser (1989).
- ⁴⁰ This undescribed species is identified by the same name it was designated in Carleton and Musser's (1989) revision of *Microryzomys*. The awkwardness of this nomenclature and the abundance, ubiquity, and ecological roles of colilargos as agricultural pests and reservoirs for disease vectors warrant renewed attention to revisions of this group.
 - ⁴¹ New record based on specimens from Cocha Cashu reported by Leite-Pitman et al. (2003).
 - ⁴² Patterson and Luna are evaluating the distinctions of this species.
- ⁴³ This distinctive mouse was described by Luna and Patterson (2003) in the enigmatic sigmodontine genus *Rhagomys*, hitherto known only from coastal Brazil (see also Percequillo et al., 2004). Its relationships to other sigmodontines are assessed in D'Elia et al. (2006), who relate it to the Andean endemics *Aepeomys* and *Thomasomys* as well as the widespread genus *Rhipidomys*.
- ⁴⁴ This species was listed by Terborgh et al. (1984) and Pacheco et al. (1993) as *Rhipidomys leucodactylus* but represents the distinct species *R. gardneri* for reasons discussed by Patton et al. (2000).
- ⁴⁵ This new species, denoted *Thomasomys* sp. 1 in Pacheco (2003), is a member of the *aureus* group and was earlier listed by Pacheco et al. (1993) as that species.
- ⁴⁶ This new species, denoted *Thomasomys* sp. 9 in Pacheco (2003), is a member of the *oreas* group and was earlier listed by Pacheco et al. (1993) as that species. Also includes a specimen from Tres Cruces previously listed as *T. gracilis*.

- ⁴⁷ Usually called *Dasyprocta punctata*, both the scientific and common names for the smaller agouti follow Emmons and Feer (1997).
- ⁴⁸ This crested cloud forest rodent was pictured in Patterson (2002) and is being described by Patterson and Velazco.
- ⁴⁹ This species was previously recognized and listed as an *Echimys*; its removal from that genus is justified by Emmons (1993) and Patton et al. (2000). This new genus has recently been erected by Emmons (2005).
- ⁵⁰ This species was previously listed as *Proechimys* sp. nov. (Pacheco et al., 1993) and was subsequently described by da Silva (1998).

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Birds of the Manu Biosphere Reserve*

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Birds known from Manu Biosphere Reserve[#], including records with vouchers or sight, sound, or sign records (localities in parentheses). Taxonomy, nomenclature, English names, and sequence follow Remsen et al. (2006), except as noted. Elevational range is given in meters. Localities for records documented during recent NSF-funded surveys of the reserve are presented with those supported by museum vouchers in bold, with sight and sound records appearing in normal font. Codes for seasonal status are R, Resident; B, Boreal Migrant; A, Austral Migrant; V, Vagrant. Documentation is encoded with s, Specimen (an asterisk indicates that a specimen collected during 1999–2001 expeditions was the first specimen for the MBR); r, Recording; p, Photograph; [blank], heard or seen only.

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Tinamiformes	_				
Tinamidae					
Gray Tinamou	Tinamus tao	250-1300) R	Mk, AC, Co	s
Black Tinamou	Tinamus osgoodi	900-1350) R		S
Great Tinamou	Tinamus major	250-700	R	Mk, AC	s
White-throated Tinamou	Tinamus guttatus	250-1100) R	Mk, AC, Co	r
Hooded Tinamou	Nothocercus nigrocapillus	1600-3200) R	SP, Su, Pi, LE, AA	r
Cinereous Tinamou	Crypturellus cinereus	250-1000) R	Mk, AC, Co	s
Little Tinamou	Crypturellus soui	250-1500) R	Mk, AC, Co	S
Brown Tinamou	Crypturellus obsoletus	450–2200) R	Mk, AC, Co, SP, Su, Pi, LE, AA	S
Undulated Tinamou	Crypturellus undulatus	250-800	R	Mk, AC	s
Brazilian Tinamou	Crypturellus strigulosus	350	R		r
Black-capped Tinamou	Crypturellus atrocapillus	250-1000) R	Mk, AC, Co	S
Variegated Tinamou	Crypturellus variegatus	250-500	R	AC	s
Bartlett's Tinamou	Crypturellus bartletti	250-450	R	AC	s
Taczanowski's Tinamou	Nothoprocta taczanowskii	3200	R		
Andean Tinamou	Nothoprocta pentlandii	2600-4000) R		

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[#] Previously published lists of birds from Manu National Park that were consulted in preparing this list are Terborgh et al, (1984), Karr et al. (1990), Servat (1995), and Walker (1998).

		Elevational S range (m)	Seasonal status	Localities	Documen- tation
Anseriformes					
Anhimidae					
Horned Screamer	Anhima cornuta	250-500	R		p
Anatidae		2.20			
Fulvous Whistling-Duck	Dendrocygna bicolor	300	V		
Black-bellied Whistling Duck	Dendrocygna autumnalis	600	•		
Andean Goose	Chloephaga	3800	R		
	melanoptera				
Orinoco Goose	Neochen jubata	250-500	R		p
Muscovy Duck	Cairina moschata	250-500	R	CD C	p
Torrent Duck	Merganetta armata	1400-2200	R R	SP. Su	
Crested Duck	Lophonetta specularioides	3450	K	AA	
Speckled Teal	Anas flavirostris	3500	R	AA	
Yellow-billed Pintail	Anas georgica	3200	R		
Blue-winged Teal	Anas discors	350	V		
Rosy-billed Pochard	Netta peposaca	350	1.		p
Masked Duck	Nomonyx dominica	250-500	R		
Galliformes					
Cracidae					
Speckled Chachalaca	Ortalis guttata	250-1600		Mk. AC. Co. SP	Š
Andean Guan	Penelope montagnii	900-3200	R	Co. SP. Su. Pi. LE.	S
Spin's Guan	Panalana igaguasu	250-1500	R	AA Mk. AC. Co	s*
Spix's Guan Blue-throated Piping-Guan	Penelope jacquacu Pinile comunensis	250-500	R	Mk	p
Wattled Guan	Aburria aburri	650-1600		SP. Su	Р 5
Sickle-winged Guan	Chamaepetes goudotii	2800	R		
Razor-billed Curassow	Mitu tuberosum	250-1000	R	Mk, Co	Š
Odontophoridae			_		
Rufous-breasted	Odontophorus	1000-2100	R	Co. SP. Su. Pi	s*
Wood-Quail Stripe-faced Wood-Quail	speciosus Odontophorus	800-3100	R	LE. AA	г
Stripe-raced wood-Quan	balliviani	300-2100	IX.	LL. AA	1
Starred Wood-Quail	Odontophorus stellatus	250-1050	R	Mk, AC	S
Podicipediformes	*				
Podicipedidae					
Least Grebe	Tachybaptus dominicus	250-500	R		р
Silvery Grebe	Podiceps occipitalis	250	Ÿ		P
Pelecaniformes					
Phalacrocoracidae					
Neotropic Cormorant	Phalacrocorax	250-3600	R	Mk, AC, Co	р
	brasiliamıs	200 2000			P
Anhingidae					
.Anhinga	Anhinga anhinga	250-500	R		p
Ciconiiformes					
Ardeidae					
Rufescent Tiger-Heron	Tigrisoma lineatum	250-600	R	Mk	Š
Fasciated Tiger-Heron	Tigrisoma fasciatum	400-1600		Mk, AC, Co, Su	Š
Agami Heron Boat-billed Heron	Agamia agami Cochlearius	250-500	R	1.0	p
Doat-onied fiction	cochlearius	250-500	R	AC	Š
Zigzag Heron	Zebrilus undulatus	250-500	R		
Stripe-backed Bittern	Ixobrychus involucris	300	V		р
Least Bittern	Ixobrychus exilis	250-500	R		£
Black-crowned	Nyeticorax nyeticorax	250-500	R	Mk. AC	
Night-Heron					

		Elevational S range (m)	Seasonal status	Localities	Documen- tation
Striated Heron	Butorides striata	250-800	R		S
Cattle Egret	Bubulcus ibis	250-1500	R	Mk	
Cocoi Heron	Ardea cocoi	250-500	R	Mk, AC	S
Great Egret	Ardea alba	250-500	R	Mk, AC	p
Capped Heron	Pilherodius pileatus	250-500	R	Mk, AC	p
Snowy Egret	Egretta thula	250-500	R	Mk, AC	
Little Blue Heron	Egretta caerulea	250–600	R	Mk	
Threskiornithidae			_		
Puna Ibis Green Ibis	Mesembrinibis	50) 3400–3500 250–500	R R		p
Black-faced Ibis	cayennensis	3500	R		
	Theristicus melanopis Platalea ajaja	250-500	R		
Roseate Spoonbill	Piaiaiea ajaja	230-300	K		
Ciconiidae Jabiru	Iahim, mustania	250-500	R		
Wood Stork	Jabiru mycteria		R		p
	Mycteria americana	250–500	K		
Cathartidae Turkey Vulture	Cathartes aura	250-2700	R	Mk, AC, Co, SP	S
Greater Yellow-headed	Cathartes melambrotus	250-2700	R	Mk, AC, Co, Si Mk, AC, Co	
Vulture	Cathartes metamorotus	230-1100	IX.	MIK, AC, CO	p
Black Vulture	Coragyps atratus	250-1300	R	Mk, AC, Co	
King Vulture	Sarcoramphus papa	250-900	R	Mk, AC, Co	
Andean Condor	Vultur gryphus	3500	R	MR, AC	
Phoenicopteriformes	r intui gryphiis	3300	•		
Phoenicopteridae					
Puna Flamingo	Phoenicoparrus jamesi	350	V		p
Falconiformes	• •				_
Accipitridae					
Osprey	Pandion haliaetus	250-500	В		
Gray-headed Kite	Leptodon cayanensis	250-600	R	AC	
Hook-billed Kite	Chondrohierax uncinatus	250-2000		Mk, SP	
Swallow-tailed Kite	Elanoides forficatus	250-2000	R	Mk, AC, Co, SP	
Pearl Kite	Gampsonyx swainsonii	250-500	R	WK, 71C, CO, 51	
Snail Kite	Rostrhamus sociabilis	250-500	R		
Slender-billed Kite	Rostrhamus hamatus	250-500	R		
Double-toothed Kite	Harpagus bidentatus	250-1350		Mk, AC, Co, SP	s
Mississippi Kite	Ictinia mississippiensis	250-500	В	,,,,	
Plumbeous Kite	Ictinia plumbea	250–1450		Mk, AC, Co, SP	S
Cinereous Harrier	Circus cinereus	2900-4000		LE	Ü
Long-winged Harrier	Circus buffoni	300	v		
Gray-bellied Hawk	Accipiter poliogaster	250-500	Ŕ		
Tiny Hawk	Accipiter superciliosus	250-500	R	Mk, AC	s
Semicollared Hawk	Accipiter collaris	1100-2500		SP	-
Sharp-shinned Hawk	Accipiter striatus	900-3500	R	Co, SP, Su, Pi, LE,	S
Bicolored Hawk	Accipiter bicolor	250-1300			S
Crane Hawk	Geranospiza	250-500	R		
Slate-colored Hawk	caerulescens Leucopternis	250-500	R		
	schistacea				
White-browed Hawk	Leucopternis kuhli	250–500	R		
White Hawk	Leucopternis albicollis	500-1500		Mk	
Gray Hawk	Asturina nitida	250–1200		N 4 G	
Great Black-Hawk	Buteogallus urubitinga	250-500	R	Mk, AC	р
Solitary Eagle	Harpyhaliaetus solitarius	700–2100	R	Co, SP, Su	
Black-collared Hawk	Busarellus nigricollis	250-500	R	Mk	p

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Black-chested	Geranoaetus	2600-4000) R		
Buzzard-Eagle	melanoleucus				
Roadside Hawk	Buteo magnirostris	250-2500		Mk, AC, Co, SP	S
Broad-winged Hawk	Buteo platypterus	250-3000		LE	
White-rumped Hawk	Buteo leucorrhous	1400-3500			
Short-tailed Hawk	Buteo brachyurus	250-1100		AC	
White-throated Hawk	Buteo albigula	1500-3400		Su	
Swainson's Hawk	Buteo swainsoni	250-650			
Red-backed Hawk	Buteo polyosoma	2000-3500		Su, AA	S
Puna Hawk	Buteo poecilochrous	3500-3800			
Zone-tailed Hawk	Buteo albonotatus	250-500			
Crested Eagle	Morphnus guianensis	250-850			
Harpy Eagle	Harpia harpyja	250-500			
Black-and-white Hawk-Eagle	Spizastur melanoleucus	250-1300			
Black Hawk-Eagle	Spizaetus tyrannus	250-1100		Mk, AC	
Ornate Hawk-Eagle	Spizaetus ornatus	250-1100		AC	S
Black-and-chestnut Eagle	Oroaetus isidori	900–3600) R	SP, Pi, LE	
Falconidae					
Black Caracara	Daptrius ater	250-600	R	Mk, AC	s
Red-throated Caracara	Ibycter americanus	250-1250		Mk, AC. Co, SP	r
Mountain Caracara	Phalcoboenus megalopterus	2850-3500		LE, AA	•
Southern Caracara	Polyborus plancus	450	V		
Yellow-headed Caracara	Milvago chimachima	350	V		
Laughing Falcon	Herpetotheres cachinnans	250-1000		Mk, AC, Co	S
Barred Forest-Falcon	Micrastur ruficollis	250-2000) R	Mk, AC, Co, SP, Su	S
Lined Forest-Falcon	Micrastur gilvicollis	250-1000		Mk, Co	s
Slaty-backed Forest-Falcor		250-500		Min, Co	r
Collared Forest-Falcon	Micrastur semitorquatus	250–1200		SP	r
Buckley's Forest-Falcon	Micrastur buckleyi	250-600	R	Mk	S
American Kestrel	Falco sparverius	2200-3500		Su	J
Bat Falcon	Falco rufigularis	250-1500		Mk, AC	r
Orange-breasted Falcon	Falco deiroleucus	250-750		,e	•
Aplomado Falcon	Falco femoralis	2500-3500		AA	
Peregrine Falcon	Falco peregrinus	350-3000		Pi	
Gruiformes	t tires peregrams	550 500	•		
Aramidae					
Limpkin Psophiidae	Aramus guarauna	250-500	R		p
Pale-winged Trumpeter Rallidae	Psophia leucoptera	250-1050) R	AC	S
Gray-necked Wood-Rail	Aramides cajanea	250-1450) R	Mk, AC, Co, SP	s
Uniform Crake	Amaurolimnas concolor	250–1000		Mk, Co	r
Black-banded Crake	Anurolimnas fasciatus	500	R	Mk	
Rufous-sided Crake	Laterallus melanophaius	250-800	R	Mk, Co	s
Gray-breasted Crake	Laterallus exilis	250-600	R		r
Spotted Rail	Pardirallus maculatus	250-500	V		
Blackish Rail	Pardirallus nigricans	250-600	Ŕ		r
Common Moorhen	Gallinula chloropus	300	R		-
Purple Gallinule	Porphyrio martinica	250-500		Mk	s
Azure Gallinule	Porphyrio flavirostris	250-300	Ä	-	_
Heliornithidae			=		
Sungrebe	Heliornis fulica	250-500	R		s

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Charadriiformes					
Eurypygidae					
Sunbittern	Eurypyga helias	250-1600) R	Mk, AC, Co, SP	S
Jacanidae	3133				
Wattled Jacana	Jacana jacana	250-300	R		p
Himantopidae					
Black-necked Stilt	Himantopus mexicanus	250-1000) V		
Charadriidae	•				
Pied Lapwing	Vanellus cayanus	250-500	R		s
Andean Lapwing	Vanellus resplendens	3500	R		
American Golden-Plover	Pluvialis dominica	250-2000) B		
Black-bellied Plover	Phivialis squatarola	350-500	В		
Collared Plover	Charadrius collaris	250-500	R	Mk	s
Scolopacidae					
Puna Snipe	Gallinago andina	2700-4000) R		S
Andean Ŝnipe	Gallinago jamesoni	2700-3550) R	Pi, LE	r
Short-billed Dowitcher	Linmodromus griseus	300	V		
Upland Sandpiper	Bartramia longicauda	250-500	В		s
Greater Yellowlegs	Tringa melanoleuca	250-2850	0 B	Mk, AC, LE	S
Lesser Yellowlegs	Tringa flavipes	250-600	В	AC	
Solitary Sandpiper	Tringa solitaria	250-3450	0 B	Mk, AC, AA	s
Spotted Sandpiper	Actitis macularius	250-350		Mk, AC, Co, SP, AA	S
Ruddy Turnstone	Arenaria interpres	450-500	В		
Sanderling	Calidris alba	250-500	В		
Least Sandpiper	Calidris minutilla	300	V		
White-rumped Sandpiper	Calidris fuscicollis	250-3450	0 B	AA	S
Baird's Sandpiper	Calidris bairdii	250-3450			
Pectoral Sandpiper	Calidris melanotos	250-500			S
Stilt Sandpiper	Calidris himantopus	250-500			
Buff-breasted Sandpiper	Tryngites subruficollis	250-500			
Wilson's Phalarope	Phalaropus tricolor	250-3450	0 B	AA	p
Laridae	z timin spins tracers				1
Andean Gull	Larus serranus (3	300) 3300–350	0 R	AA	
Franklin's Gull	Larus pipixcan	350	V		
Arctic Tern	Sterna paradisaca	350	V		p
Yellow-billed Tern	Sterna superciliaris	250-500	R	Mk, AC	p
Black Tern	Chlidonias niger	600	V	,	•
Large-billed Tern	Phaetusa simplex	250-500	R	Mk, AC	p
Black Skimmer	Rynchops niger	250-500	R		p
	T				•
Columbiformes					
Columbidae			-		
Ruddy Ground-Dove	Columbina talpacoti	250-700			
Picui Ground-Dove	Columbina picui	250-500			S
Blue Ground-Dove	Claravis pretiosa	250-600			, to
Maroon-chested	Claravis mondetoura	1900–250	0 R	Su, LE	s*
Ground-Dove	16	2000 220	0 D	Ç	
Bare-faced Ground-Dove	Metriopelia ceciliae	2000-220		Su	
Spot-winged Pigeon	Patagioenas maculosa	3500-400		C D' LE AA	
Band-tailed Pigeon	Patagioenas fasciata	1200-350		Su, Pi, LE, AA	S
Pale-vented Pigeon	Patagioenas .	250-900	R	Mk, AC, Co	r
	cayennensis	250 100	0 P	MI- AC C CD	_
Plumbeous Pigeon	Patagioenas plumbea	250-180		Mk, AC, Co, SP	S
Ruddy Pigeon	Patagioenas	250–155	0 R	Mk, AC, Co, SP	S
	subvinacea	250, 2000 220	0 13		
Eared Dove		250) 3000–330		MI AC C CD	
Gray-fronted Dove	Leptotila rufaxilla	250-125		Mk, AC, Co, SP	S
Sapphire Quail-Dove	Geotrygon saphirina	600-100	0 R	Co	

		Elevational range (m)	Seasonal status	Localities	Documen- tation
White-throated Quail-Dove	Geotrygon frenata	700-2850) R	Co, SP, Su, LE	S
Ruddy Quail-Dove	Geotrygon montana	250-1200) R	Mk, AC, Co	S
Psittaciformes					
Psittacidae					
Blue-and-yellow Macaw	Ara ararauna	250-1000) R	Mk, AC	p
Military Macaw	Ara militaris	600-1500		Co	
Scarlet Macaw	Ara macao	250-1000) R	Mk, AC	р
Red-and-green Macaw	Ara chloropterus	250-1050) R	Mk, AC	p
Chestnut-fronted Macaw	Ara severus	250-1200		Mk, AC, Co	S
Red-bellied Macaw	Orthopsittaca manilata	250–650		AC	
Blue-headed Macaw	Primolius couloni	250-1300		Mk, AC, Co	S
Mitred Parakeet	Aratinga mitrata	2000-3200		AA	
White-eyed Parakeet	Aratinga leucophthalma	250–1650) R	Mk, AC, Co, SP	S
Dusky-headed Parakeet	Aratinga weddellii	250-700	R	Mk, AC	S
Golden-plumed Parakeet	Leptosittaca branickii	2500-3250			r
Painted Parakeet	Pyrrhura picta	250-1000		Mk, AC	s
Rock Parakeet	Pyrrhura rupicola	250-1100		AC	s
Barred Parakeet	Bolborhynchus lineola	1100-2550) R	Co, SP, Su, Pi	
Andean Parakeet	Bolborliynchus orbygnesius	2500-3500) R	LE	
Dusky-billed Parrotlet	Forpus sclateri	250-500	R	Mk. AC	r
Cobalt-winged Parakeet	Brotogeris cyanoptera	250-500	R	Mk, AC	S
Tui Parakeet	Brotogeris sanctithomae	250-500	R		
Amazonian Parrotlet	sancimomae Nannopsittaca dachilleae	250-1050) R	Mk, AC	r
Scarlet-shouldered Parrotlet	Touit huetii	300-1300) R		S
White-bellied Parrot	Pionites leucogaster	250-500	R	Mk, AC	S
Orange-cheeked Parrot	Pionopsitta barrabandi	250-500	R	Mk, AC	p
Blue-headed Parrot	Pionus menstruus	250-1250) R	Mk, AC, Co	s
Speckle-faced Parrot	Pionus tunnultuosus	1100-3000) R	SP, Su, Pi, LE, AA	s*
Yellow-crowned Parrot	Amazona ochrocephala	250-850	R	Mk, AC	S
Scaly-naped Parrot	Amazona mercenaria	1100-3100) R	Co, SP, Su, Pi, LE,	r
Mealy Parrot	Amazona farinosa	250-1200) R	Mk, AC, Co	S
Opisthocomiformes					
Opisthocomidae					
Hoatzin	Opisthocomus hoazin	250-500	R		S
Cuculiformes					
Cuculidae					
Ash-colored Cuckoo	Cocevzus cinereus	250-600	Α	Mk	
Black-billed Cuckoo	Coccyzus erythropthalmus	250–500	В	AC	s
Yellow-billed Cuckoo	Coccyzus americanus	250-1000) B	Со	S
Dark-billed Cuckoo	Coccyzus melacoryphus	250-700	R	Mk	
Squirrel Cuckoo	Piaya cayana	250-2800) R	Mk, AC, Co, SP, Su,	S
Black-bellied Cuckoo	Piaya melanogaster	250-900	R	Mk, AC	s*
Little Cuckoo	Piaya minuta	250-600	R	Mk	S
Greater Ani	Crotophaga major	250-500	R		p
Smooth-billed Ani	Crotophaga ani	250-800	R	Mk, AC, Co	S
Striped Cuckoo	Tapera naevia	250-500	R		
Pheasant Cuckoo	Dromococcyx phasianellus	250–1000) R	Mk	r

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Pavonine Cuckoo	Dromococcyx payoninus	250-900	R		r
Rufous-vented Ground-Cuckoo	Neomorphus geoffroyi	250-700	R		p
Strigiformes					
Tytonidae					
Barn Owl	Tyto alba	500-3500	0 R	Pi, AA	
Strigidae			_		
Tropical Screech-Owl	Megascops choliba	250-500		AC CP C	
Rufescent Screech-Owl Tawny-bellied Screech-Owl	Megascops ingens Megascops watsonii	1000-2100 250-600		Co, SP, Su Mk, AC	s s
Vermiculated Screech-Owl	Megascons guatemalae	600-160	0 R	Co	S
White-throated Screech-Owl	Megascops albogularis	2500–3250		LE	s*
Crested Owl	Lophostrix cristata	250-700	R		S
Spectacled Owl	Pulsatrix perspicillata	250-600		AC	r
Band-bellied Owl	Pulsatrix melanota	650-140		Co	r
Great Horned Owl	Bubo virginianus	3400-350		MI- C-	
Mottled Owl	Ciccaba virgata	250-1050 250-500		Mk, Co	S
Black-banded Owl Rufous-banded Owl	Ciccaba huhula Ciccaba albitarsis	1900-320		Su, Pi, LE	r s*
Yungas Pygmy-Owl	Glaucidium bolivianum	1500-320		Su. Pi, LE	S
Subtropical Pygmy-Owl	Glaucidium parkeri	1000	R	Su. Fi, EE	r
Amazonian Pygmy-Owl	Glaucidium hardyi	250-115		Mk	r
Ferruginous Pygmy-Owl	Glaucidium brasilianum	250-100			S
Burrowing Owl Striped Owl	Athene cunicularia (50 Pseudoscops clamator	0) 1900–350 300	0 R R	Su	
Caprimulgiformes					
Steatornithidae					
Oilbird	Steatornis caripensis	450-800	R	AC	s*
Nyctibiidae	•				
Great Potoo	Nyetibius grandis	250-600		Mk, AC	r
Long-tailed Potoo	Nyctibius aethereus	250-500		Mk, AC	s*
Gray Potoo	Nyctibius griseus	250-500		Mk, AC, Co	Γ
Andean Potoo	Nyctibius maculosus	1400–280	0 R	Pi	r/p
Caprimulgidae Short-tailed Nighthawk	Lurocalis semitorquatus	250-500	R	AC	
Rufous-bellied Nighthawk		1500-345	0 R	SP, Su, LE, AA	
Sand-colored Nighthawk	Chordeiles rupestris	250-500		Mk	S
Common Nighthawk	Chordeiles minor	300	В		
Pauraque	Nyctidromus albicollis	250-800		Mk, AC	S
Ocellated Poorwill	Nyctiphrynus ocellatus	250-100		Mk, AC	S
Silky-tailed Nightjar	Caprimulgus sericocaudatus	250–350		D:	r -*
Band-winged Nightjar	Caprimulgus longirostris	1700–350		Pi	s*
Blackish Nightjar	Caprimulgus nigrescens	600-120			r
Ladder-tailed Nightjar	Hydropsalis climacocerca	250-500		Mk	S
Scissor-tailed Nightjar	Hydropsalis torquata	250-170		D' 1 E 4 4	S
Swallow-tailed Nightjar	Uropsalis segmentata	2000-350		Pi, LE, AA	s*
Lyre-tailed Nightjar	Uropsalis lyra	1300–280	0 R	SP, LE	S
Apodiformes					
Apodidae White-chinned Swift	Cypseloides cryptus	600-195	0 R	SU	s*

		Elevational : range (m)	Seasonal status	Localities	Docume tation
White-chested Swift	Cypselodes lemosi	350-900	R		
Chestnut-collared Swift	Streptoprocne rutila	250-3000	R	Mk, AC, Co, SP, SU, Pi, LE	S
White-collared Swift	Streptoprocne zonaris	250-4000	R	Mk, AC, Co, SP, SU, LE, AA	S
Grav-rumped Swift	Chaetura cinereiventris	250-1450	R	Mk, AC, Co, SP	S
Pale-rumped Swift	Chaetura egregia	250-1600	R	Mk, Co	S
Chimney Swift	Chaetura pelagica	250-500	В		
Amazonian Swift	Chaetura viridipennis	500-600	R		
Short-tailed Swift	Chaetura brachvura	250-1000	R	Mk, Co	
White-tipped Swift	Aeronautes montivagus	1800-3000	R		
Andean Swift	Aeronautes andecolus	2800-3500	R		
Fork-tailed Palm-Swift	Tachornis squamata	250-800	R		
Lesser Swallow-tailed Swift	Panyptila cayennensis	250-800	R	Mk	
rochilidae					
Buff-tailed Sicklebill	Eutoxeres condamini	450-1950	R	Mk, AC, Co, SP, SU	S
Rufous-breasted Hermit	Glaucis hirsutus	250-1000		Mk, AC, Co	S
Pale-tailed Barbthroat	Threnetes leucurus	250-1200		Mk, AC, Co	S
Reddish Hermit ²	Phaethornis ruber	250-1400		MK, AC, Co	s
White-browed Hermit	Phaethornis stuarti	450	R	MIK, Me, co	S
White-bearded Hermit	Phaethornis hispidus	250-1400		Mk. AC. Co. SP	S
Green Hermit	Phaethornis guy	550-1600		Co. SP	S
Koepcke's Hermit	Phaethornis koepekeae	500-1300		Mk. AC	S
Needle-billed Hermit	Phaethornis philippii	250-500	R	WIR, AC	S
Great-billed Hermit	Phaethornis malaris	250-1350		Mk, AC, Co, SP	S
Blue-fronted Lancebill	Dorvfera johannae	500-1000		Ne. eo. 51	p
Green-fronted Lancebill	Doryfera ludovicae	800-1900		Co. SP. Su	S
Gray-breasted Sabrewing	Campylopterus largipennis	250-1300		Mk. AC. Co	s
White-necked Jacobin	Florisuga mellivora	250~1200	R	Mk, AC, Co	S
Brown Violet-ear	Colibri delphinae	800-1700	R		S
Green Violet-ear	Colibri thalassinus	1000-2850		Co, SP, Su, Pi, LE	S
Sparkling Violet-ear	Colibri coruscans	400-3500		Mk. AC, Co, SP, Su, LE, AA	S
Black-throated Mango	Anthracothorax nigricollis	250-800	R	Mk Mk	
Violet-headed	Klais guimeti	500-1000	R		s
Hummingbird		* 00 1000	-		
Rufous-crested Coquette	Lophornis delattrei	500-1900		Su	p
Festive Coquette	Lophornis chalybeus	250-400	R		p
Wire-crested Thorntail Black-bellied Thorntail	Discosura popelairii	500-1500		Co	p
Blue-chinned Sapphire	Discosura langsdorffi Chlorestes notata	250	R	Ca	
Blue-tailed Emerald	Chlorostilbon	500-900	R	Co AC. Co	
	mellisugus	250–900	R		
Fork-tailed Woodnymph	Thalurania furcata	250-1400		Mk, AC, Co, SP	S
Rufous-throated Sapphire	Hylocharis sapphirina	500	R		
White-chinned Sapphire	Hylocharis cyanus	250-500	R	MI 10 0 00	
Golden-tailed Sapphire	Chrysuronia oenone	250–1550 750–1500		Mk, AC, Co, SP	S
Many-spotted	Taphrospilus	750–1500	R	Co	S
Hummingbird White bellied	hypostictus	1100 3400	D		
White-bellied	Amazilia chionogaster	1100-3400	R		S
Hummingbird Green-and-white	Amazilia viridicauda	1500-2500	R	SP	
Hummingbird	4 11 1	250		N 44 GD	
Sapphire-spangled Emerald	Amazilia lactea	250–1400	R	Mk, SP	s*
Speckled Hummingbird	Adelomyia melanogenys	1000-2800	R	Co, SP, Su, Pi, LE	S

Peruvian Piedtail Phlogophilus harterti Rufous-webbed Brilliant Black-throated Brilliant Gould's Jewelfront Fawn-breasted Brilliant Violet-fronted Brilliant Chestnut-breasted Brilliant Coronet Shining Sunbeam Aglaeactis castelnaudii Aufous Rufous	Documentation S S S S S S S S S S S S S S S S S S
Rufous-webbed Brilliant Black-throated Brilliant Gould's Jewelfront Fawn-breasted Brilliant Violet-fronted Brilliant Chestnut-breasted Shining Sunbeam White-tufted Sunbeam Reliodoxa branickii Heliodoxa schreibersii Heliodoxa aurescens Heliodoxa aurescens Heliodoxa aurescens Heliodoxa aurescens Heliodoxa aurescens Heliodoxa aurescens 1500–2200 R SP, Su 1900–2900 R Su, Pi, LE 2500–3350 R Pi, LE, AA	s s s s* s
Rufous-webbed Brilliant Black-throated Brilliant Gould's Jewelfront Fawn-breasted Brilliant Violet-fronted Brilliant Chestnut-breasted Shining Sunbeam White-tufted Sunbeam Reliodoxa branickii Heliodoxa schreibersii Heliodoxa aurescens Heliodoxa aurescens Heliodoxa aurescens Heliodoxa rubinoides 1500–2200 R SP, Su 1900–2900 R Co, SP, Su 1900–2900 R Su, Pi, LE 2500–3350 R Pi, LE, AA	s s s s* s
Gould's Jewelfront Heliodoxa aurescens Fawn-breasted Brilliant Violet-fronted Brilliant Heliodoxa leadbeateri Chestnut-breasted Boissonneaua 1900–2900 R Su, Pi, LE Coronet matthewsii Shining Sunbeam Aglaeactis castelnaudii 250–3500 R Gould's Jewelfront Heliodoxa aurescens 250–1050 R Mk, AC, Co R SP, Su 900–2000 R Co, SP, Su 1900–2900 R Su, Pi, LE 2500–3500 R	s s* s
Fawn-breasted Brilliant Violet-fronted Brilliant Violet-fronted Brilliant Chestnut-breasted Coronet Shining Sunbeam White-tufted Sunbeam Fawn-breasted Brilliant Heliodoxa leadbeateri Boissonneaua Boissonneaua Falaeactis cupripennis Aglaeactis castelnaudii 1500–2200 R 900–2000 R 900–2000 R 900–2900 R Su, Pi, LE 2500–3350 R Pi, LE, AA 2500–3500 R	s* s s
Violet-fronted Brilliant Chestnut-breasted Coronet Shining Sunbeam White-tufted Sunbeam Violet-fronted Brilliant Boissonneaua Boissonneauaa Boissonneauaa Boissonneauaa Boissonneauaa Bois	s s
Chestnut-breasted Boissonneaua 1900–2900 R Su, Pi, LE Coronet matthewsii Shining Sunbeam Aglaeactis cupripennis 2500–3350 R Pi, LE, AA White-tufted Sunbeam Aglaeactis castelnaudii 2500–3500 R	S
Coronet matthewsii Shining Sunbeam Aglaeactis cupripennis 2500–3350 R Pi, LE, AA White-tufted Sunbeam Aglaeactis castelnaudii 2500–3500 R	
White-tufted Sunbeam Aglaeactis castelnaudii 2500–3500 R	S*
Andean Hillstar Oreotrochilus estella 3000–3500 R	~.
Mountain Velvetbreast Lafresnaya lafresnaya 2000–3200 R LE	S^*
Bronzy Inca Coeligena coeligena 1000–2400 R Co, SP, Su, Pi	S
Collared Inca Coeligena torquata 2000–3000 R Pi, LE	S
Violet-throated Coeligena violifer 1900–3350 R Su, Pi, LE, AA Starfrontlet	S
Sword-billed Ensifera ensifera 2500–3500 R Pi, LE, AA Hummingbird	s*
Great Sapphirewing Pterophanes 2600–3500 R Pi, LE, AA cyanopterus	s*
Giant Hummingbird Patagona gigas 3400–3500 R AA	
Amethyst-throated Heliangelus 1950–3500 R Su, Pi, LE, AA Sunangel amethysticollis	S
Sapphire-vented Puffleg Eriocnemis luciani 2400–3450 R Pi, AA	s
Buff-thighed Puffleg Haplophaedia assimilis 1500–2200 R SP, Su	S
Booted Racket-tail Ocreatus underwoodii 1000–1850 R Co, SP, Su	S
Green-tailed Trainbearer Lesbia nuna 3000–3500 R Purple-backed Thornbill Ramphomicron 2500–3500 R microrhynchum	
Tyrian Metaltail Metallura tyrianthina 1900–3500 R Su, Pi, LE, AA Scaled Metaltail Metallura aeneocauda 2750–3500 R Pi	s
Rufous-capped Thornbill Chalcostigma ruficeps 1800–2700 R Su, Pi, LE	s
Long-tailed Sylph Aglaiocercus kingi 1200–2200 R SP, Su	s
Wedge-billed Schistes geoffroyi 800–1900 R Co, SP Hummingbird	s
Black-eared Fairy Heliothryx aurita 250–1100 R Mk, AC, Co Long-billed Starthroat Heliomaster 250–600 R Mk, AC	s
Amethyst Woodstar Calliphlox amethystina 250–800 R Co	p
White-bellied Woodstar Chaetocercus mulsant 900–3000 R Co, SP, Su	S
Trogoniformes Trogonidae	
White-tailed Trogon Trogon viridis 250–750 R Mk, AC	r
Blue-crowned Trogon Trogon curucui 250–1500 R Mk, AC, Co	S
Violaceous Trogon Trogon violaceus 250–800 R Mk, AC	S
Collared Trogon Trogon collaris 250–1050 R Mk, AC, Co	S
Masked Trogon Personatus 1100–3500 R Co, SP, Su, Pi, LE, AA	S
Black-tailed Trogon Trogon melanurus 250–1000 R Mk, AC, Co Pavonine Quetzal Pharomachrus 250–1200 R AC pavoninus	s s
Golden-headed Quetzal Crested Quetzal Pharomachrus auriceps Pharomachrus 1300–2800 R SP, Su, Pi, LE 1000–2100 R SP, Su antisianus	s* s*
Coraciiformes	
Alcedinidae	
Ringed Kingfisher Ceryle torquata 250–1000 R Mk, AC, Co	p
Amazon Kingfisher Chloroceryle amazona 250–1300 R Mk, AC, Co, SP	S
Green Kingfisher Chloroceryle americana Chloroceryle 250–1350 R Mk, AC	s

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Green-and-rufous Kingfisher	Chloroceryle inda	250-500	R	Mk, AC	S
American Pygmy Kingfisher	Chloroceryle aenea	250-500	R	Mk	S
Momotidae Broad-billed Motmot	Electron platyrhynchum	250-700	R	AC	S
Rufous Motmot	Baryphthengus martii	250-160	0 R	Mk, AC, Co, SP	S
Blue-crowned Motmot Highland Motmot ³	Momotus momota Momotus aequatorialis	250-700 1000-240	R	Mk, AC Co, SP, Su,	s s
Galbuliformes					
Galbulidae					
Purus Jacamar	Galbalcyrhynchus purusianus	250–400	R		r
White-throated Jacamar	Brachygalba albogularis	250–600	R	Mk, AC	S
Bluish-fronted Jacamar	Galbula cyanescens	250-145		Mk, AC, Co, SP	S
Paradise Jacamar Great Jacamar	Galbula dea Jacamerops aureus	250-500 250-500		AC	s*
Bucconidae White-necked Puffbird	Notharchus hyperrhynchus	250-550	R	AC	r
Pied Puffbird	Notharchus tectus	250-500	R		
Chestnut-capped Puffbird	Bucco macrodactylus	250-100		Mk, AC	s
Spotted Puffbird	Bucco tamatia	250-500		,	S
Collared Puffbird	Bucco capensis	250-500			
Striolated Puffbird	Nystalus striolatus	250-120	0 R	Mk, AC, Co	S
Semicollared Puffbird	Malacoptila semicincta	250-125	0 R	AC, Co	S
Black-streaked Puffbird	Malacoptila fulvogularis	900–195	0 R	SP, Su	S
Lanceolated Monklet	Micromonacha lanceolata	500-150	0 R	Со	S
Rufous-capped Nunlet	Nonnula ruficapilla	250-125	0 R	Mk, Co	S
Black-fronted Nunbird	Monasa nigrifrons	250-750	R	Mk, AC	S
White-fronted Nunbird	Monasa morphoeus	250-750	R	AC	S
Yellow-billed Nunbird	Monasa flavirostris	250-125	0 R	Mk, Co	s*
Swallow-wing	Chelidoptera tenebrosa	250-800	R	Mk, AC, Co	S
Piciformes Capitonidae					
Gilded Barbet	Capito auratus	250-135	0 R	AC	S
Lemon-throated Barbet	Eubucco richardsoni	250-100		Mk. AC. Co	s
Scarlet-hooded Barbet	Eubucco tucinkae	250-800		Mk	s
Versicolored Barbet	Eubucco versicolor	750–210		Co, SP, Su	s
Ramphastidae	D. uumb ust sa tu sauur	250 000	D	Mlr AC Co	
White-throated Toucan	Ramphastos tucanus	250-800	_	Mk, AC, Co	S
Channel-billed Toucan Emerald Toucanet	Ramphastos vitellinus	250-600		Mk, AC	S
Chestnut-tipped Toucanet	Aulacorhynchus prasinus	250–150		Mk, AC, Co, SP Co, SP	S
Blue-banded Toucanet	derbianus Aulacorhynchus	800-155		,	s s*
	coeruléicinctis	1300-270		SP, Su, Pi, LE	
Gray-breasted Mountain-Toucan	Andigena hypoglauca	1450–350		Pi, LE, AA	s*
Golden-collared Toucanet		250-105		Mk, AC	S
Lettered Aracari	Pteroglossus inscriptus	250-500		Mk	p
lvory-billed Aracari	Pteroglossus azara	250-120		AC, Co	S
Chestnut-eared Aracari	Pteroglossus castanotis	250-100	0 R	Mk, AC, Co	S

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Curl-crested Aracari	Pteroglossus	250-800	R	AC	s
Picidae	beauharnaesii				
Bar-breasted Piculet	Picumnus aurifrons	250-1250	0 R	AC	S
Ocellated Piculet	Picumnus dorbignyanus	1950	R	Su	3
Rufous-breasted Piculet	Picumnus rufiventris	250-1250	0 R	Mk, AC, Co, SP	s
Fine-barred Piculet	Picumnus subtilis	450-110		Mk, AC, Co	S
Yellow-tufted Woodpecker	Melanerpes cruentatus	250-120		Mk, AC, Co	S
Bar-bellied Woodpecker	Veniliornis nigriceps	2400-350	0 R	LE, AA	S
Little Woodpecker	Veniliornis passerinus	250-1000	0 R	Mk, AC, Co	S
Red-stained Woodpecker	Veniliornis affinis	250-140	0 R	AC, Co	S
White-throated Woodpecker	Piculus leucolaemus	250-850	R	AC	S
Golden-green Woodpecker	Piculus chrysochloros	250-500	R		
Golden-olive Woodpecker	Piculus rubiginosus	750-200	0 R	SP, Su	s
Crimson-mantled Woodpecker	Piculus rivolii	1500-3350	0 R	SP, Su, Pi, LE, AA	s*
Spot-breasted Woodpecker		250-800	R		S
Andean Flicker	Colaptes rupicola	3000-3500	0 R		
Scaly-breasted Woodpecker	Celeus grammicus	250–120	0 R	Mk, AC	S
Chestnut Woodpecker	Celeus elegans	250-500	R		s
Cream-colored Woodpecker	Celeus flavus	250–500	R	Mk, AC	r/p
Rufous-headed Woodpecker	Celeus spectabilis	250–500	R	Mk	S
Ringed Woodpecker	Celeus torquatus	250-500	R		r
Lineated Woodpecker	Dryocopus lineatus	250-1550	0 R	Mk, AC, Co, SP	S
Crimson-bellied Woodpecker	Campephilus haematogaster	1450-2000	0 R	SP, Su	S
Red-necked Woodpecker	Campephilus rubricollis	300-650	R	Mk, AC	S
Crimson-crested Woodpecker	Campephilus melanoleucos	250–1400	0 R	Mk, AC, Co	S
Passeriformes					
Furnariidae					
Slender-billed Miner	Geositta tenuirostris	3100-3500	0 R		
Bar-winged Cinclodes	Cinclodes fuscus	3350-3500		AA	s*
Pale-legged Hornero	Furnarius leucopus	250-1100		Mk, AC, Co	S
Andean Tit-Spinetail	Leptasthenura andicola	3500	R	,,	3
Puna Thistletail	Schizoeaca helleri	2700-3500		LE, AA	s
Azara's Spinetail	Synallaxis azarae	1000-3000		Co, SP, Su, Pi, LE	S
Pale-breasted Spinetail	Synallaxis albescens	600	V	, , , ,	
Dark-breasted Spinetail	Synallaxis albigularis	250-900	R	Mk, Co	s
Ruddy Spinetail	Synallaxis rutilans	250-400	R	,	r
Chestnut-throated Spinetail	Synallaxis cherriei	300	R		S
Cabanis' Spinetail	Synallaxis cabanisi	250-1500) R	Mk, Co, SP	S
Plain-crowned Spinetail	Synallaxis gujanensis	250-1300) R	Mk, AC, Co, SP	s
Marcapata Spinetail	Čranioleuca marcapatae	2350-3500) R	Pi, LE, AA	S
Ash-browed Spinetail	Cranioleuca curtata	700-1600) R	Co, SP	S
Speckled Spinetail	Cranioleuca gutturata	250-1100		Mk, AC, Co	S
Creamy-crested Spinetail	Cranioleuca albicapilla	2500-3300		Pi	S
Plain Šofttail	Thripophaga fusciceps	250-600	R	Mk	r
Streak-throated Canastero	Asthenes humilis	3500	R		
Line-fronted Canastero	Asthenes urubambensis	3350-3450		AA	S
Scribble-tailed Canastero	Asthenes maculicauda	3450-3500) R	AA	p

		Elevational range (m)	Seasonal status	Localities	Docume tation
Orange-fronted	Metopothrix	250-1100) R	Mk	S
Plushcrown	aurantiacus	200 1100			5
Rusty-winged Barbtail	Prenmornis guttuligera	1300-2500) R	Su	s*
Spotted Barbtail	Premnoplex	900-2100		Co, SP, Su	S
Spotted Barotan	brunnescens	, , , , , , , , , , , , , , , , , , ,		00, 01, 00	5
Pearled Treerunner		1900-3500) R	Su, Pi, LE, AA	S
realled Heerunnet	Margarornis	1900-3300	<i>)</i> K	Su, II, LE, AA	5
C. 1 1 T C 1 1 1	squamiger	2000 2500) D	C. D. LE AA	s*
Streaked Tuftedcheek	Pseudocolaptes	2000-3500) R	Su, Pi, LE, AA	S
	boissonneautii	250 (00			
Point-tailed Palmcreeper	Berlepschia rikeri	250-600	R		r
Montane Foliage-gleaner	Anabacerthia	1000-2000) R	SP, Su	S
	striaticollis				
Buff-browed	Syndactyla	1000-1950) R	SP, Su	S
Foliage-gleaner	rufosuperciliata				
Peruvian Recurvebill	Simoxenops ucayalae	250-1300) R	Mk, Co	S
Chestnut-winged Hookbill	Ancistrops strigilatus	250-1100		Mk, AC, Co	S
Striped Woodhaunter	Hyloctistes subulatus	250-1300		Mk, AC	S
Rufous-tailed		250-900	R	AC	S
	Philydor ruficaudatum	230-900	K	AC	2
Foliage-gleaner	DI II I	250 500	n	1 C	
Rufous-rumped	Philydor	250-500	R	AC	S
Foliage-gleaner	erythrocercum				
Ochre-bellied	Philydor ochrogaster	750-1600) R	Co, SP	S
Foliage-gleaner ⁴					
Chestnut-winged	Philydor	250-900	R	Mk, AC	S
Foliage-gleaner	erythropterum				
Buff-fronted	Philydor rufum	250-1000) R	Mk	S
Foliage-gleaner	1 mily dor rayam	230 100	,	1111	0
Cinnamon-rumped	Philydor pyrrhodes	250-450	R	AC	c
	Thuyaot pyrrhodes	230-430	IX	AC	S
Foliage-gleaner	4 1	250 125	\ D	MIL AC C- CD	
Dusky-cheeked	Anabazenops dorsalis	250–1350) R	Mk, AC, Co, SP	S
Foliage-gleaner	cent	200 100		G GB	
Black-billed Treehunter	Thripadectes	900-1600) R	Co, SP	S
	melanorhynchus				
Striped Treehunter	Thripadectes	1500-2500) R	SP, Su	S
-	holostictus				
Buff-throated Treehunter	Thripadectes scrutator	2300-3200) R	Pi, AA	s*
Buff-throated	Automolus	250-1400		Mk, AC, Co	S
Foliage-gleaner	ochrolaemus			,,	_
Olive-backed	Automolus infuscatus	250-550	R	Mk, AC	S
Foliage-gleaner	Automonis injuscums	230-330	1	WIK, AC	3
	Andoneslas	250 450	D		
Brown-rumped	Automolus	250-450	R		S
Foliage-gleaner	melanopezus			- 44 - 54	
Ruddy Foliage-gleaner	Automolus rubiginosus	250-1400		Mk, Co	S
Chestnut-crowned	Automolus rufipileatus	250-1000) R	Mk, AC, Co	S
Foliage-gleaner					
Tawny-throated Leaftosser	Sclerurus mexicanus	250-1100) R	AC, Co	S
Black-tailed Leaftosser	Sclerurus caudacutus	250-1100) R	AC	S
Gray-throated Leaftosser	Sclerurus albigularis	350-1500			S
Sharp-tailed Streamcreeper		500-2850		AC, Co, SP, Su, Pi,	S
		200 200	•	LE	
Rufous-tailed Xenops	Xenops milleri	250-500	R	Mk	
Slender-billed Xenops	Xenops tenuirostris	250-500	R	AC Co SD	S
Streaked Xenops	Xenops rutilans	500-1600		AC, Co, SP	S
Plain Xenops	Xenops minutus	250-1500		Mk, AC, Co	S
Tyrannine Woodcreeper	Dendrocincla	2100-3150) R	Su, Pi, LE, AA	S
	tyrannina				
Plain-brown Woodcreeper	Dendrocincla	250-120) R	Mk, AC, Co, SP	S
	fuliginosa				
White-chinned	Dendrocincla merula	250-500	R	Mk, AC	S
Woodcreeper					

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Long-tailed Woodcreeper	Deconychura longicauda	250-1250) R	AC	S
Olivaceous Woodcreeper	Sittasomus griseicapillus	250-1200) R	Mk, AC, Co	S
Wedge-billed Woodcreeper	Glyphorynchus	250-1400) R	Mk, AC, Co	s
Long-billed Woodcreeper	spirurus Nasica longirostris	250-500			s
Cinnamon-throated Woodcreeper	Dendrexetastes rufigula	250–1100	0 R	Mk, AC, Co	S
Bar-bellied Woodcreeper	Hylexetastes stresemanni	250-500	R		
Strong-billed Woodcreeper		1200-250	0 R	SP, Su, Pi	S
Rusty-breasted Woodcreeper ⁵	Xiphocolaptes orenocensis	500-110	0 R	Mk, AC, Co	s
Amazonian Barred Woodcreeper	Dendrocolaptes certhia	250-800	R	Mk, AC	s
Black-banded	Dendrocolaptes	250-1350	0 R		s
Woodcreeper Straight-billed	picumnus Xiphorhynchus picus	250-500	R	Mk	S
Woodcreeper Striped Woodcreeper	Xiphorhynchus obsoletus	250-500	R		s
Ocellated Woodcreeper	Xiphorliynchus	250-135	0 R	Co	s
Elegant Woodcreeper	ocellatus Xiphorhynchus elegans	250-600	R	Mk, AC	s
Buff-throated Woodcreeper	Xiphorhynchus guttatus	250-850	R	Mk, AC, Co	S
Olive-backed Woodcreeper		1100-240	0 R	SP, Su	S
Montane Woodcreeper	Lepidocolaptes lacrymiger	2000-320	0 R	Su, Pi, LE, AA	S
Lineated Woodcreeper	Lepidocolaptes albolineatus	250-110	0 R	Mk, AC	s
Greater Scythebill	Campylorhaniphus pucherani	2100-300	0 R		r
Red-billed Scythebill	Campylorhamphus trochilirostris	250-150	0 R	Mk, AC, Co, SP	S
Thamnophilidae Fasciated Antshrike	Cumbilainus lineatus	250-950	R	Mk, AC	s
Bamboo Antshrike	Cymbilaimus lineatus Cymbilaimus	250–145 ⁶		Mk, Co, SP	s
Undulated Antshrike	sanctaemariae Frederickena	250-105	0 R		S
Great Antshrike	unduligera Taraba major	250-150	0 R	Mk, AC, Co	S
Barred Antshrike	Thamnophilus doliatus	250-100		AC	s
Chestnut-backed Antshrike	Thamnophilus palliatus	500–160		Mk, Co, SP	S
White-shouldered Antshrike	Thamnophilus aethiops	250–950	R	Mk, AC	S
Uniform Antshrike	Thamnophilus unicolor	1250-200	0 R	SP, Su	s
Plain-winged Antshrike	Thannophilus schistaceus	250–140		Mk, AC, Co, SP	S
Amazonian Antshrike	Thamnophilus amazonicus	250-400	R		r
Variable Antshrike	Thamnophilus caerulescens	1250-200	0 R	Su	S
Black Bushbird	Neoctantes niger	250-800	R		s
Russet Antshrike	Thamnistes anabatinus	700-150		Co, SP	S
Plain Antvireo	Dysithamnus mentalis	600–160		Co, SP	S

		Elevational range (m)	Seasona status	ıl	Localities	Docum tatio
Dusky-throated Antshrike		250-850	R	AC		S
Bluish-slate Antshrike	ardesiacus Thamnomanes	250-1400	R	Mk,	AC. Co	S
	schistogynus		_			
Spot-winged Antshrike	Pygiptila stellaris	250-600	R	Mk.		Š
White-eyed Antwren	Myrmotherula leucophthalma	250-800	R	Mk.	AC	S
Foothill Antwren	Myrmotherula spodionota	700–1350) R	Co		S
Ornate Antwren	Myrmotherula ornata	250-1500) R	Mk.	AC, Co, SP	S
Rufous-tailed Antwren	Myrmotherula erythrura	250-900		Mk.		S
Pygmy Antwren	Myrmotherula brachvura	250-1300) R	Mk.	AC, Co	S
Sclater's Antwren	Myrmotherula sclateri	250-700	R	AC		s*
Amazonian Streaked	Myrmotherula	250-500	R	Mk.	AC	r
Antwren	multostriata	200 200			110	
Stripe-chested Antwren	Myrmotherula longicauda	500-1550	R	Co. S	SP	S
Plain-throated Antwren	Myrmotherula hauxwelli	250-500	R	Mk.	AC	Š
White-flanked Antwren	Myrmotherula axillaris	250-1400) R	Mk.	AC	S
Slaty Antwren	Myrmotherula schisticolor	1100–1950			SP, Su	8
Long-winged Antwren	Myrmotherula longipennis	250-700	R	AC		S
lhering's Antwren	Myrmotherula iheringi	250-650	R	Mk		S
Gray Antwren	Myrmotherula menetriesii	250-1100			AC. Co	5
Banded Antbird	Dichrozona cineta	250-450	R			r
Yellow-breasted Antwren	Herpsilochmus axillaris	750–1600		Co. S	SP	s
Rufous-winged Antwren	Herpsilochmus rufimarginatus	250-1000) R	Mk.	AC	S
Dot-winged Antwren	Microrhopias quixensis	250-1350) R	Mk	AC, Co	S
Striated Antbird	Drymophila devillei	250-1300		Mk		S
Long-tailed Antbird	Drymophila caudata	1650-2100		Su		s*
Rufous-rumped Antwren	Terenura callinota	750-1000		0 40		
Chestnut-shouldered Antwren	Terenura humeralis	250-650		AC		r
Yellow-rumped Antwren	Terenura sharpei	1000-1550) R	Co. S	SP	r/p
Gray Antbird	Cercomacra cinerascens	250-1000		Mk.		S
Blackish Antbird	Cercomacra nigrescens	250-600	R	Mk.	AC	S
Black Antbird	Cercomacra serva	250-1550			AC, Co. SP	S
Manu Antbird	Cercomacra manu	250-1350		Mk.		S
White-backed Fire-eve	Pvriglena leuconota	500-1850		Co. S		S
White-browed Antbird	Myrmoborus leucophrys	250–1350			AC. Co	S
Black-faced Antbird	Myrmoborus myotherinus	250–1250) R	Mk.	AC, Co	S
Warbling Antbird	Hypocnemis cantator	250-1600) R	Mk	AC. Co. SP	Š
Band-tailed Antbird	Hypocnemoides maculicauda	250-500				s
Silvered Antbird	Sclateria naevia	250-600	R	Mk.	AC	S
White-lined Antbird	Percnostola lophotes	250-1350			AC. Co	s
Spot-winged Antbird	Schistocichla leucostigma	250–1400			Co, SP	s
Chestnut-tailed Antbird	Myrmeciza hemimelaena	250-1550) R	Mk.	AC. Co. SP	S

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Black-throated Antbird	Myrmeciza atrothorax	250-100	0 R	Mk, AC, Co	S
Goeldi's Antbird	Myrmeciza goeldii	250-800		Mk, AC, Co	s
Plumbeous Antbird	Myrmeciza hyperythra	250-800		Mk, Co	S
Sooty Antbird	Myrmeciza fortis	250-130		Mk, AC, Co	S
White-throated Antbird	Gymnopithys salvini	250-800		Mk, AC, Co	s
Hairy-crested Antbird	Rhegmatorhina melanosticta	250–120		AC, Co	s
Spot-backed Antbird	Hylophylax naevius	250-120	0 R	Mk, AC, Co	S
Scale-backed Antbird	Hylophylax poecilinotus	250-850		AC	S
Black-spotted Bare-eye	Phlegopsis nigromaculata	250–125	0 R	Mk, AC, Co	S
Formicariidae					
Rufous-capped Antthrush	Formicarius colma	250-500	R	AC	S
Black-faced Antthrush	Formicarius analis	250-115	0 R	Mk, AC, Co	S
Rufous-fronted Antthrush	Formicarius rufifrons	250-350	R		r/p
Rufous-breasted Antthrush		1100-170		Co, SP	S
Short-tailed Antthrush	Chamaeza campanisona	1100-160			s
Striated Antthrush	Chamaeza nobilis	250-450	R		S
Barred Antthrush	Chamaeza mollissima	1900-310		Su. AA	s*
Undulated Antpitta	Grallaria squamigera	2350-350		LE, AA	s
Scaled Antpitta	Grallaria guatimalensis	700–160		Co, SP	S
Elusive Antpitta	Grallaria eludens	250-400		CO, DI	r
White-throated Antpitta	Grallaria albigula	1150-210		SP. Su	s*
	Grallaria erythroleuca	2100-300		Pi Pi	r/p
Red-and-white Antpitta	Grallaria rufula	1800-350		Su, Pi, LE, AA	s*
Rufous Antpitta		250-600		Mk, AC	
Amazonian Antpitta Thrush-like Antpitta	Hylopezus berlepschi Myrmothera campanisona	250–600 250–120		Mk, AC, Co, SP	s s
Ochre-breasted Antpitta	Grallaricula flavirostris	800-220	0 R	Su	s*
Rusty-breasted Antpitta	Grallicula ferrugineipectus	2600-325		LE, AA	r
Conopophagidae	jerragineipeeras				
Ash-throated Gnateater	Conopophaga peruviana	250-900	R	Mk, AC	s
Chestnut-crowned Gnateater	Conophaga castaneiceps	1200-200	0 R		r
Slaty Gnateater	Conopophaga ardesiaca	850–165	0 R	Co, SP	S
Rhinocryptidae					
Rusty-belted Tapaculo	Liosceles thoracicus	250-110	0 R	Mk, AC, Co	S
Trilling Tapaculo	Scytalopus parvirostris	2100-345	0 R	Su, Pi, LE, AA	s*
White-crowned Tapaculo	Scytalopus atratus	1000-220	0 R	Co, SP, Su	S
Andean Tapaculo	Scytalopus simonsi	2800-350	0 R		r
Diademed Tapaculo	Scytalopus schulenbergi	2800-335	0 R		r
Tyrannidae Rough-legged Tyrannulet	Phyllomyias	750–160	0 R		s
	burmeisteri		-	C	
Sclater's Tyrannulet Ashy-headed Tyrannulet	Phyllomyias sclateri Phyllomyias	1900 1300–270	0 R	Su SP	
Tawny-rumped	cinereiceps Phyllomyias	2700-280	0 R	Pi, LE	s*
Tyrannulet Yellow-crowned Tyrannulet	uropygialis Tyrannulus elatus	250-850	R	Mk, AC, Co	S
Tyrannulet Forest Elaenia	Myiopagis gaimardii	250-900	R	Mk, AC, Co	r
	Myiopagis gaimaraii Myiopagis caniceps	250-550		AC	s
Gray Elaenia Greenish Elaenia	Myiopagis viridicata	250-500			S

			Elevational range (m)	Seasonal status	Localities	Documen- tation
,	Yellow-bellied Elaenia	Elaenia flavogaster	450-900	R	Со	S
	Large Elaenia	Eluenia spectabilis	250-1450	0 A	AC, SP	S
	White-crested Elaenia	Elaenia albiceps	500-3250	0 R	SP, Su, Pi, LE, AA	S
•	Small-billed Elaenia	Elaenia parvirostris	250-130	0 A	Mk, Co	S
	Slaty Elaenia	Elaenia strepera	250-450	A		S
	Mottle-backed Elaenia	Elaenia gigas	250-1550	0 R	Mk, Co, SP	S
]	Lesser Elaenia	Elaenia chiriquensis	500-600	R		r
]	Highland Elaenia	Elaenia obscura	1700-300	0 R		
	Sierran Elaenia	Elaenia pallatangae	1100-3250	0 R	SP, Pi, LE, AA	S
	Mouse-colored Tyrannulet	Phaeomyias murina	250-500	R	Mk, AC	
1	White-lored Tyrannulet	Ornithion inerme	250-1000	0 R	Mk, AC, Co	S
9	Southern	Camptostoma	250-500	R	Mk	S
	Beardless-Tyrannulet	obsoletum				
,	White-banded Tyrannulet	Mecocerculus stictopterus	2400-3350	0 R	Pi, LE, AA	s*
,	White-throated Tyrannulet	Mecocerculus leucophrys	1800–350	0 R	Su, Pi, LE, AA	S
-	Tufted Tit-Tyrant	Anairetes parulus	2500-3450	0 R	Pi, LE, AA	S
	Torrent Tyrannulet	Serpophaga cinerea	600-300	0 R	SP, Su, Pi	S
]	River Tyrannulet	Serpophaga hypoleuca	250-500	R		
•	Yellow Tyrannulet	Capsiempis flaveola	250-1050	0 R	Mk, Co	S
	Subtropical Doradito	Pseudocolopteryx acutipennis	500	A		S
]	Hazel-fronted Pygmy-Tyrant	Pseudotriccus simplex	1100-1900	0 R	Co. SP. Su	S
]	Ringed Antpipit	Corythopis torquatus	250-1050	0 R	Mk. AC	S
-	Tawny-crowned Pygmy-Tyrant	Euscarthmus meloryphus	600	V		
]	Bolivian Tyrannulet	Zimmerius bolivianus	1000-2600	0 R	Co, SP, Su. Pi	S
	Red-billed Tyrannulet	Zimmerius cinereicapillus	550-1300	0 R	Co	S
	Slender-footed Tyrannulet	Zimmerius gracilipes	250-850	R	Mk, AC, Co	S
1	Variegated Bristle-Tyrant	Phylloscartes poecilotis	1500-230	0 R	Su	
]	Marble-faced Bristle-Tyrant	Phylloscartes ophthalmicus	750–180	0 R	Co, SP	S
9	Spectacled Bristle-Tyrant	Phylloscartes orbitalis	500-1250	0 R		S
]	Mottle-cheeked Tyrannulet	Phylloscartes ventralis	1000–1650	0 R	Co, SP	S
(Cinnamon-faced Tyrannulet	Phylloscartes parkeri	650–1550	0 R	Co. SP	S
9	Streak-necked Flycatcher	Mionectes striaticollis	550-2750	0 R	Co. SP, Su, Pi, LE	S
(Olive-striped Flycatcher	Mionectes olivaceus	250-1400	0 R	Mk, AC, Co, SP	S
(Ochre-bellied Flycatcher	Mionectes oleagineus	250-1350	0 R	Mk, AC, Co, SP	S
	McConnell's Flycatcher	Mionectes macconnelli	250-1200	0 R	Mk, AC, Co	S
	Sepia-capped Flycatcher	Leptopogon amaurocephalus	250–1100	0 R	Mk, AC, Co	S
	Slaty-capped Flycatcher	Leptopogon superciliaris	600-1800	0 R	Co, SP, Su	S
]	Inca Flycatcher	Leptopogon taczanowskii	1850–2750	0 R	Su, Pi	s*
	Southern Scrub-Flycatcher		250-1050	0 A	Mk	S
	Amazonian Scrub-Flycatcher	Sublegatus obscurior	250-600			S
	Plain Tyrannulet	Inezia inornata	250-500	A	Mk. AC	
	Ornate Flycatcher	Mviotriccus ornatus	500-150		Co	S
	Short-tailed	Mviornis ecaudatus	250-800		Mk, AC, Co	s
	Pygmy-Tyrant Scale-crested	Lophotriccus pileatus	800–180		Co, SP	s
	Pygmy-Tyrant					

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Long-crested	Lophotriccus	250-500	R		S
Pygmy-Tyrant	eulophotes	200 000	• • • • • • • • • • • • • • • • • • • •		
Flammulated	Hemitriccus	250-850	R	Mk, Co	S
Bamboo-Tyrant	flammulatus				
White-bellied	Hemitriccus	250-850	R	AC	S
Tody-Tyrant	griseipectus				
Johannes' Tody-Tyrant	Hemitriccus iohannis	250800	R		S
Black-throated	Hemitriceus	2600-3000) R	LE, AA	S
Tody-Tyrant	granadensis				
Buff-throated	Hemitriccus rufigularis	750-1100) R		S
Tody-Tyrant	D	250 105			
White-cheeked	Poecilotriccus	250–1050) R	Mk, AC, Co	S
Tody-Tyrant	albifacies	1600 015	. .	CD C	
Ochre-faced	Poecilotriccus	1600-2150) R	SP, Su	r
Tody-Flycatcher	plumheiceps	250 1000	, n	MI ACC	
Rusty-fronted	Poecilotriccus	250-1000) R	Mk, AC, Co	S
Tody-Flycatcher	latirostris	(00 150) D	C	
Black-backed	Poecilotriccus	600–1500) R	Co	S
Tody-Flycatcher	pulchellus T- line street	350 500	D		
Spotted Tody-Flycatcher	Todirostrum	250-500	R		r
Vallani bassisid	maculatum T- dimentum	250 1000) D	MI: AC	
Yellow-browed	Todirostrum	250-1000) R	Mk, AC	S
Tody-Flycatcher Olivaceous Flatbill	chrysocrotaphum	250-1000) R		6
Olivaceous Flatbill	Rhynchocyclus	230-1000	<i>)</i> K		S
Fulvous-breasted Flatbill	olivaceus Phymologyalus	1000-2000) R	Co, SP, Su	6
ruivous-breasted riatoili	Rhynchocyclus fulvipectus	1000-2000	<i>)</i> K	Co, Sr, Su	S
Yellow-margined	Tolmomyias assimilis	250-1000) R	Mk, AC, Co	s
Flycatcher	Tounomyus assimus	230-1000	<i>J</i> K	MIK, AC, CO	3
Gray-crowned Flycatcher	Tolmomyias	250-1450) R	Mk, AC, Co, SP	s
Gray-crowned Prycatcher	poliocephalus	250-1450	<i>)</i> K	MIK, AC, CO, SI	3
Yellow-breasted	Tolmomyias	250-1500) R	Mk, AC, Co, SP	S
Flycatcher	flaviventris	250-150	<i>y</i> 10	Mik, Me, eo, or	3
White-throated Spadebill	Platyrinchus	800-1800) R	Co, SP	S
winte-tinoated Spadeoin	mystaceus	000 100	, ,,	CO, 51	3
Golden-crowned Spadebill		250-500	R	AC	r
White-crested Spadebill	Platyrinchus Coronamis	250-850	R	710	s
Winte-crested Spadeom	platyrhynchos	250 050	••		J
Royal Flycatcher	Onychorhynchus	250-500	R	AC	s
Royal i lycatchel	coronatus	200 000			
Unadorned Flycatcher	Myiophobus inornatus	1000-2150	0 R	SP, Su	s
Handsome Flycatcher	Myiophobus pulcher	1500-2600		Su, Pi	S
Ochraceous-breasted	Myiophobus	2200-340		Su, Pi, LE	s*
Flycatcher	ochraceiventris				
Bran-colored Flycatcher	Myiophobus fasciatus	250-1450	0 A	Mk, AC, Co, SP	S
Tawny-breasted	Myiobius villosus	650-1350			s
Flycatcher	J				
Sulphur-rumped	Myiobius barbatus	250-650	R	AC	s
Flycatcher					
Ruddy-tailed Flycatcher	Terenotriccus	250-950	R	Mk, AC	S
	erythrurus				
Cinnamon	Neopipo cinnamomea	250-700	R		s
Tyrant-Manakin					
Cinnamon Flycatcher	Pyrrhomyias	900-2850	0 R	Co, SP, Su, Pi, LE	S
,	cinnamomea				
Cliff Flycatcher	Hirundinea ferruginea	500-120	0 R		S
Euler's Flycatcher	Lathrotriccus euleri	250-150	0 R	AC, Co	S
Fuscous Flycatcher	Cnemotriccus fuscatus	250-500			S
Alder Flycatcher	Empidonax alnorum	250-160		Co	S
Olive-sided Flycatcher	Contopus cooperi	250-200	0 B	Co	S

		Elevational range (m)	Seasona status	Localities	Docum tatio
Smoke-colored Pewee	Contopus fumigatus	1000-2800) R	Co, SP, Su, Pi, LE	s*
Western Wood-Pewee	Contopus sordidulus	600-1400		eo, 51, 5 u , 11, EE	
				C- CD	S
Eastern Wood-Pewee	Contopus virens	250-1400		Co, SP	S
Olive Flycatcher	Mitrephanes olivaceus	1550-2100		SP, Su	s*
Black Phoebe	Sayornis nigricans	600-2000) R	Co, SP	S
Vermilion Flycatcher	Pyrocephalus rubinus	250-600	Α	Mk, AC	S
Andean Tyrant	Knipolegus signatus	1000-2700) R		
Rufous-tailed Tyrant	Knipolegus poecilurus	900-2200		Su	s
	Knipolegus aterrimus	1250-3500			
White-winged Black-Tyrant	1 0			SP, Pi, LE	S
Drab Water-Tyrant	Ochthornis littoralis	250-500	R	Mk, AC	S
Yellow-browed Tyrant	Satrapa icterophrys	250-500	Α	Mk	
Little Ground-Tyrant	Muscisaxicola	250-1600) R	Mk, AC, Co, SP	S
•	fluviatilis				
Black-billed Shrike-Tyrant		3350-3500		AA	
Streak-throated Bush-Tyrant	Myiotheretes (2 striaticollis	250) 1300–3500) R	Pi, LE, AA	S
Smoky Bush-Tyrant	Myiotheretes fumigatus	2000–3200) R		
Rufous-bellied	Myiotheretes	2350-3400) R	Pi, LE, AA	
		2330~3400	<i>)</i> K	ri, LE, AA	S
Bush-Tyrant Red-rumped Bush-Tyrant	fuscorufus Cnemarchus	3250-3350) R		
	erythropygius				
Rufous-webbed Tyrant	Polioxolmis rufipennis	3000-3400) R		
Black-backed Water-Tyrant	Fluvicola albiventer	250-450	Α		p
Crowned Chat-Tyrant	Ochthoeca frontalis	3200-3500) R	AA	s*
Golden-browed Chat-Tyrant	Ochthoeca pulchella	2200–3250) R	Su, Pi, LE	S
Slaty-backed Chat-Tyrant	Ochthoeca cinnamomeiventris	1500-2800) R	Su, Pi, LE	S
Rufous-breasted Chat-Tyrant	Ochthoeca rufipectoralis	2500-3450) R	Pi, LE, AA	S
		2250 2500	n n		
Brown-backed	Ochthoeca fumicolor	3250-3500) R	AA	S
Chat-Tyrant					
D'Orbigny's Chat-Tyrant	Ochthoeca oenanthoides	3400–3500	R	AA	
White-browed	Ochthoeca leucophrys	3000-3500) R		
Chat-Tyrant	Othinocta reacopais	3000-3300	, 10		
	G 1 · 1	200 1200	, n	M	
Long-tailed Tyrant	Colonia colonus	300-1300		Mk, AC, Co, SP	S
Piratic Flycatcher	Legatus leucophaius	250-1200) R	Mk, AC, Co	S
Social Flycatcher	Myiozetetes similis	250-1500) R	Mk, AC, Co, SP	S
Gray-capped Flycatcher	Myiozetetes granadensis	250–1300) R	Mk, AC, Co, SP	S
Dusky-chested Flycatcher	Myiozetetes	250-500	R		
Creat Vielsed	luteiventris	250 1000	. P	MI- AC	
Great Kiskadee	Pitangus sulphuratus	250-1000		Mk, AC	S
Lesser Kiskadee	Pitangus lictor	250-500	R		S
Three-striped Flycatcher	Conopias trivirgata	250	R		
Lemon-browed Flycatcher	Conopias cinchoneti	900-1950) R	Co, SP, Su	s*
Golden-crowned Flycatcher	Myiodynastes chrysocephalus	600–2750		Co, SP, Su, Pi	S
Sulphur-bellied Flycatcher	Myiodynastes	250-1250) B	Mk	s
Streaked Flycatcher	luteiventris Myiodynastes	250-1500	R	Co, SP	s
	maculatus				
Boat-billed Flycatcher	Megarynchus pitangua	250-1200) R	Mk, AC, Co	S
Sulphury Flycatcher	Tyrannopsis sulphurea	250-600	R		r
Variegated Flycatcher	Empidonomus varius	250-450	Â		•
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		Elevational range (m)	Seasonal status	Localities	Documen- tation
Crowned Slaty-Flycatcher	Empidonomus aurantioatro- cristatus	250-100	0 A	Mk, Co	
White-throated Kingbird Tropical Kingbird	Tyrannus albogularis Tyrannus	250-500 250-260		Mk, AC, Co, SP	S
-	melancholicus			Wik, 71C, Co, 51	3
Fork-tailed Flycatcher	Tyrannus savana	250-500			
Eastern Kingbird	Tyrannus tyrannus	250-500		A.C. SD	S
Grayish Mourner	Rhytipterna simplex	250-140		AC, SP	S
Sirystes	Sirystes sibilator	250-500			r
Rufous Casiornis	Casiornis rufus	250-500		16 6 6D 6 D	S
Dusky-capped Flycatcher ⁶	Myiarchus tuberculifer	250–325	0 R	AC, Co, SP, Su, Pi, AA	S
Swainson's Flycatcher	Myiarchus swainsoni	250-500	Α	Mk, AC	S
Short-crested Flycatcher	Myiarchus ferox	250-110		Mk, AC, Co	S
Pale-edged Flycatcher	Myiarchus cephalotes	1200-190		SP, Su	-
Brown-crested Flycatcher	Myiarchus tyrannulus	250-450		AC	
Large-headed Flatbill	Ramphotrigon	250-120		Mk, Co, SP	s
	megacephala				
Dusky-tailed Flatbill	Ramphotrigon fuscicauda	250–105	0 R	Mk, Co	S
Rufous-tailed Flatbill	Ramphotrigon ruficauda	250-500	R	AC	S
Dull-capped Attila	Attila bolivianus	250-450	R	Mk, AC	S
Bright-rumped Attila	Attila spadiceus	250-125		Mk, AC, Co, SP	s
Oxyruncidae Sharpbill	Oxyruncus cristatus	850-130	00 R		s
Cotingidae	Ampelion rubrocristata	2500-345	50 R	LE, AA	s*
Red-crested Cotinga		1600-285		Su, LE	s*
Chestnut-crested Cotinga	Ampelion rufaxilla			SP, Su, Pi, LE	S
Band-tailed Fruiteater	Pipreola intermedia	1500-290			s*
Barred Fruiteater	Pipreola arcuata	2600-340		Pi, LE, AA	
Scarlet-breasted Fruiteater		1000-150			s s
Scaled Fruiteater	Ampelioides tschudii	700–140		Co CD Cu Di	
Andean Cock-of-the-rock	Rupicola peruvianus	650-255		Co, SP, Su, Pi	S
Plum-throated Cotinga	Cotinga maynana	250-100		Mk, Co	S
Spangled Cotinga	Cotinga cayana	250-800		A.C.	S
Screaming Piha	Lipaugus vociferans	250-800		AC	S
Black-faced Cotinga	Conioptilon mcilhennyi				r/p
Gray-tailed Piha	Snowornis subalaris	850-135			S
Purple-throated Cotinga	Porphyrolaema porphyrolaema	250–450) R		p
Bare-necked Fruitcrow	Gymnoderus foetidus	250-500) R	Mk, AC	S
Purple-throated Fruitcrow	Querula purpurata	250-105		Mk, AC	S
Amazonian Umbrellabird	Cephalopterus ornatus	250-165		Co, SP	S
Pipridae		250 450) D		c
Sulphur-bellied Tyrant-Manakin	Neopelma sulphureiventer	250–450) R		S
Dwarf Tyrant-Manakin	Tyranneutes stolzmanni	250-800) R	Mk, AC	S
Fiery-capped Manakin	Machaeropterus pyrocephalus	250-135	50 R	Mk, AC, Co	S
Blue-crowned Manakin	Lepidothrix coronata	250-900) R	Mk, AC	S
Cerulean-capped Manakin	Lepidothrix	750–160		Co, SP	S
	coeruleocapilla			141 C	
White-bearded Manakin	Manaeus manacus	450-950	_	Mk, Co	p
Blue-backed Manakin	Chiroxiphia pareola	250-450		AC G- CD	S
Yungas Manakin	Chiroxiphia boliviana	950-200		Co, SP	S
Green Manakin	Xenopipo holochlora	450-110		AC	S
Jet Manakin	Xenopipo unicolor	1000-180	00 R		S

		Elevational range (m)	Seasonal status	Localities	Documer tation
Band-tailed Manakin	Pipra fasciicauda	250-1000) R	Mk, AC, Co	S
Round-tailed Manakin	Pipra chloromeros	250-1400		Mk, AC, Co	S
Incertae sedis ⁷	1 qua emoromeros	250 1100		,	3
Black-crowned Titvra	Tityra inquisitor	250-600	R	AC	S
Black-tailed Tityra	Tityra cayana	250-450	R	AC	3
Masked Tityra	Tityra semifasciata	250-1500		Mk, Co, SP	S
Varzea Schiffornis	Schiffornis major	250-500	R	MR, CO, SI	S
Thrush-like Schiffornis	Schiffornis turdinus	250-1400		AC. Co	S
Cinereous Mourner	Laniocera hypopyrra	250-750	R	AC AC	S
White-browed Purpletuft	Iodopleura isabellae	250-850	R	Mk. AC	S
Shrike-like Cotinga	Laniisoma elegans	750-1400		1111, 110	S
Green-backed Becard	Pachyramphus viridis	900	R		p
Barred Becard	Pachyramphus versicolor	1500-2600		SP, Su, Pi, LE	s*
Chestnut-crowned Becard	Pachyramphus	250-500	R		
Chestilut-crowned becard	castaneus	_30 300	10		
White-winged Becard	Pachyramphus polychopterus	250-1100) R	Mk, AC, Co	S
Black-and-White Becard	Pachyramphus	1500	R		
black-alid-willte becald	albogriseus	1500	IX		
Black-capped Becard	Pachyramphus	250-750	R	AC	
Black-capped Becard	marginatus	230-730	1	AC	S
Pink-throated Becard	Pachyramphus minor	250-1050) R	Mk. AC	6
Wing-barred Piprites	Piprites chloris	250-1050		Mk. AC. Co	S S
Vireonidae	Fipriles cilioris	230-1030) K	MR, AC. Co	5
Rufous-browed	Cyclarhis gujanensis	200 1200) R	Co	
	Cyclarnis gujanensis	300-1200) K	Co	S
Peppershrike	Vireolanius leucotis	250 1500) D	A.C.	
Slaty-capped Shrike-Vireo		250-1500		AC	s s*
Brown-capped Vireo	Vireo leucophrys Vireo olivaceus	1300-2500		SP, Su, Pi	
Red-eyed Vireo Yellow-green Vireo	Vireo onvaceus Vireo flavoviridis	250-1900		Mk, AC, Co, SP, Su	S
Lemon-chested Greenlet	Hylophilus thoracicus	250-900		Co Mk, AC, Co	S
	Hylophilus Hylophilus	250-850		Mk, AC, Co	S
Dusky-capped Greenlet		250-1100) K	MK, AC, CO	S
Tawny-crowned Greenlet	hypoxanthus Hylophilus ochraceiceps	250-1050) R	AC	S
Corvidae	ocuraceiceps				
White-collared Jay	Cyanolyca viridicyanus	1850-3000) R	Su, Pi, LE	s*
Violaceous Jay	Cyanocorax violaceus	250-1400		Mk, AC, Co	
					S
Purplish Jay	Cyanocorax cyanomelas	250–1100		Mk, AC, Co	S
Green Jay	Cyanocorax yncas	1150-2200) R	SP, Su	r
Hirundinidae	T 1	350 500	D	N. 1. C	
White-winged Swallow	Tachycineta albiventer	250-500	R	Mk, AC	p
White-rumped Swallow	Tachycineta	250	V		S
D - 1 - 134 - 2	leucorrhoa	250 1400	. D	CD	
Brown-chested Martin	Progne tapera	250-1400		SP	
Purple Martin	Progne subis	250	V		
Gray-breasted Martin	Progne chalybea	250-500	R		
Southern Martin	Progne elegans	250	V		
Andean Swallow	Hapalochelidon andecola	3450-3500		AA	
Blue-and-white Swallow	Pygochelidon cyanoleuca	250–3450		AC, Co, SP, Su, Pi, LE, AA	S
Brown-bellied Swallow	Notiochelidon murina	2600-3500		AA	s*
Pale-footed Swallow	Notiochelidon flavipes	1500-3500		SP, Su	
White-banded Swallow	Atticora fasciata	250-800	R	Mk. AC	S
White-thighed Swallow	Neochelidon tibialis	250-1250		Mk, SP	S
Tawny-headed Swallow	Alopochelidon fucata	750	V		
Southern Rough-winged Swallow	Stelgidopteryx ruficollis	250–1600) R	Mk, AC, Co, SP	S

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Bank Swallow	Riparia riparia	250-500	В	Mk	
Barn Swallow	Hirundo rustica	250-3450) B	Mk, AA	S
Cliff Swallow	Petrochelidon pyrrhonota	250–750	В		
Troglodytidae					
Scaly-breasted Wren	Microcerculus marginatus	250–1250		Mk, AC, Co	S
Wing-banded Wren	Microcerculus bambla	300	R		S
Gray-mantled Wren	Odontorchilus branickii	750–1800		Co, SP	S
House Wren	Troglodytes aedon	250-3500	0 R	Mk, AC, Co, SP, Pi, LE, AA	S
Mountain Wren	Troglodytes solstitialis	1850-3400		Su, Pi, LE, AA	s*
Sedge Wren	Cistothorus platensis	2950-350	0 R	LE, AA	
Thrush-like Wren	Campylorhynchus turdinus	250–1050	0 R	Mk, Co	s
Moustached Wren	Thryothorus genibarbis	250-150	0 R	Mk, AC, Co, SP	S
Buff-breasted Wren	Thryothorus leucotis	250-450			r
Fulvous Wren	Cinnycerthia fulva	2100-300		Su, Pi, LE	S
Gray-breasted Wood-Wren	Henicorhina leucophrys	1000–285		Co, SP, Su, Pi, LE	S
Chestnut-breasted Wren	Cyphorhinus thoracicus	800–160		Co, SP	S
Musician Wren Polioptilidae	Cyphorhinus arada	250–500		Mk, AC	S
Tawny-faced Gnatwren	Microbates cinereiventris	450–100		AC	S
Long-billed Gnatwren	Ramphocaenus melanurus	250–450			S
Tropical Gnatcatcher Incertae sedis ⁸	Polioptila plumbea	250	R		
Black-capped Donacobius Cinclidae	Donacobius atricapilla	250–500		Mk	s
White-capped Dipper Turdidae	Cinclus leucocephalus	950-285		Co, SP, Su, LE	s*
Andean Solitaire	Myadestes ralloides	750–290		Co, SP, Su, Pi, LE	S
Slaty-backed Nightingale-Thrush	Catharus fuscater	1500–285	0 R	Su, Pi, LE	S
Spotted Nightingale- Thrush	Catharus dryas	700–150		Co, SP	S
Veery	Catharus fuscescens	500	V	_	
Swainson's Thrush	Catharus ustulatus	250-350		Co	S
White-eared Solitaire	Entomodestes leucotis	1300-290		SP, Su, LE	S
Pale-eyed Thrush	Platycichla leucops	850-260		SP, Su, Pi	S
Great Thrush	Turdus fuscater	2500-350		Pi, LE, AA	S
Chiguanco Thrush	Turdus chiguanco	1300-350		SP, Su, Pi, LE, AA	S
Glossy-black Thrush	Turdus serranus	1400–320		Su, LE, AA	S
Slaty Thrush	Turdus nigriceps	250-185		AC	S
Creamy-bellied Thrush	Turdus amaurochalinus			AC Co	S
Black-billed Thrush	Turdus ignobilis	250-150		Mk, AC, Co	S
Lawrence's Thrush	Turdus lawrencii	250-450		Mk, AC	S S
Hauxwell's Thrush White-necked Thrush	Turdus hauxwelli Turdus albicollis	250–800 250–850		AC	S
Motacillidae Paramo Pipit	Anthus bogotensis	3450-350	0 R	AA	
Thraupidae Black-faced Tanager	Schistochlamys melanopis	600-260	0 R		S
Magpie Tanager	Cissopis leveriana	250-160	0 R	Mk, AC, Co, SP	S
Black-and-white Tanager	Conothraupis speculigera	250-500		Mk	s*

		Elevational range (m)	Seasonal status	Localities	Docume tation
Red-billed Pied Tanager	Lamprospiza	250-900	R	AC	S
Handal Tanana	melanoleuca	250-500	D		
Hooded Tanager	Nemosia pileata			C - CD C - D'	p
Slaty Tanager	Creurgops dentata	1100-2500		Co. SP. Su. Pi	S
Black-capped Hemispingus	Hemispingus atropileus	2600-3500		Pi, LE	s*
Superciliaried Hemispingus	Hemispingus superciliaris	2500–3000) R	Pi. LE	S
Oleaginous Hemispingus	Hemispingus frontalis	1500-2500) R	Su	s*
Black-eared Hemispingus	Hemispingus melanotis	1100-2200) R	Co. SP. Su	S
Drab Hemispingus	Hemispingus xanthophthalmus	2200–3250) R	Pi, LE, AA	
Three-striped Hemispingus	Hemispingus trifasciatus	3000-3500) R	AA	s*
Grav-hooded	Cnemoscopus	1400-2500) R	Su. Pi	р
Bush-Tanager	rubrirostris				Р
Rufous-chested Tanager	Thlypopsis ornata	2500-3250		LE. AA	
Orange-headed Tanager	Thlypopsis sordida	250-600			S
Rust-and-yellow Tanager	Thlypopsis ruficeps	1500-3500		Su, Pi, LE, AA	S
Black-goggled Tanager	Trichothraupis melanops	1000–1650) R	Co. SP	Š
Yellow-crested Tanager	Tachyphonus rufiventer	250–1250) R	Mk. AC. Co	S
Flame-crested Tanager	Tachyphomus cristatus	300	R		
White-shouldered Tanager		250-850	R	Mk. AC. Co	S
White-winged Shrike-Tanager	Lanio versicolor	250-1000) R	Mk. AC	S
Masked Crimson Tanager	Ramphocelus nigrogularis	250-1000) R	Mk	S
Silver-beaked Tanager	Ramphocelus carbo	250-1600) R	Mk, AC, Co, SP	S
Blue-gray Tanager	Thraupis episcopus	250-1600		Mk. AC. Co. SP	S
Palm Tanager	Thraupis pahnarum	250-1600		Mk, AC, Co, SP	S
Blue-capped Tanager	Thraupis cyanocephala	1500-3000		SP. Su. Pi. LE	S
Blue-and-yellow Tanager	Thraupis bonariensis	1000-3500		Co. Su. LE, AA	S
Hooded Mountain- Tanager	Buthraupis montana	2500-3250) R	Pi, LE, AA	s*
Scarlet-bellied Mountain- Tanager	Anisognathus igniventris	2600-3400) R	Pi. LE. AA	S
Blue-winged Mountain- Tanager	Anisognathus somptuosus	1600-3000) R	SP. Su	s*
Grass-green Tanager	Chlorornis rietterii	2100-3200) R	Su. Pi. LE. AA	s*
Buff-breasted Mountain-	Dubusia taeniata	1900-3200		Pi. LE. AA	s*
Tanager Chestnut-bellied	Delothraupis	2600-3500) R	Pi, LE, AA	s*
Mountain-Tanager	castaneoventris	150 3000	n n	AC CD C D' IE	
Fawn-breasted Tanager	Pipraeidea melanonota	450-3000		AC. SP. Su. Pi. LE	S
Yellow-throated Tanager		1000-2200		SP. Su	S
Golden-collared Tanager	Iridosornis jelskii	2200-3500		Pi. LE. AA	S
Orange-eared Tanager	Chlorochrysa calliparaea	1000-2200		Co. SP. Su	S
Turquoise Tanager	Tangara mexicana	250-1000		Mk. AC. Co	S
Paradise Tanager	Tangara chilensis	250-1600		Mk. AC. Co. SP	S
Green-and-gold Tanager	Tangara schrankii	250-1100		MK, AC, Co	S
Golden Tanager	Tangara arthus	600-1800		Co. SP	S
Saffron-crowned Tanager	Tangara xanthocephala	1000-2500) R	Co, SP, Su, Pi	S
Golden-eared Tanager	Tangara chrysotis	850-1600		Co. SP	S
Flame-faced Tanager	Tangara parzudakii	1550-2000		SP	
Yellow-bellied Tanager	Tangara xanthogastra	250-1300		Mk, AC, Co, SP	S
Spotted Tanager	Tangara punctata	600-2000		Co. SP	S
Bay-headed Tanager	Tangara gyrola	250-1500) R	Mk, AC, Co, SP	S

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Golden-naped Tanager	Tangara ruficervix	1000-210	0 R	Co, SP	S
Blue-browed Tanager	Tangara cyanotis	1300-200		SP SP	5
Blue-necked Tanager	Tangara cyanicollis	500-200		Mk, Co, SP	S
Masked Tanager	Tangara nigrocincta	250-110	0 R	Mk, AC, Co	S
Beryl-spangled Tanager	Tangara nigroviridis	1500-250	0 R	SP, Su, Pi	S
Blue-and-black Tanager	Tangara vassorii	1900-325		Su, Pi, LE, AA	S
Silver-backed Tanager	Tangara viridicollis	800-260		SP, Su	
Opal-rumped Tanager	Tangara velia	250-600		Mk, AC	
Opal-crowned Tanager	Tangara callophrys	250-950		Mk, AC, Co	S
Swallow-Tanager	Tersina viridis	250-145		Mk, AC, Co, SP	S
White-bellied Dacnis	Dacnis albiventris	250-400		MI- AC C- CD	_
Black-faced Dacnis	Dacnis lineata	250-130		Mk, AC, Co, SP	S
Yellow-bellied Dacnis	Dacnis flaviventer	250-100		Mk, AC, Co	S
Blue Dacnis	Dacnis cayana	250-155		Mk, AC, Co, SP	S
Purple Honeycreeper	Cyanerpes caeruleus	250–140 250–100		Mk, AC , Co, SP Mk	S
Red-legged Honeycreeper	Cyanerpes cyaneus Chlorophanes spiza	250-100 250-120		Mk, AC, Co, SP	S
Green Honeycreeper Golden-collared	Iridophanes	1100-180		Co, SP	3
Honeycreeper	pulcherrimus	1100-100	U K	C0, 51	
Guira Tanager	Hemithraupis guira	250-110	0 R	Mk, Co	
Yellow-backed Tanager	Hemithraupis gund	250-700		AC AC	S
_	flavicollis				
Chestnut-vented Conebill	Conirostrum speciosum			Co	S
Cinereous Conebill	Conirostrum cinereum	2850-350	_	LE, AA	
Blue-backed Conebill	Conirostrum sitticolor	2300-335		Pi, LE, AA	
Capped Conebill	Conirostrum albifrons	1200-300		Su, Pi, LE AA	
White-browed Conebill	Conirostrum ferrugineiventre	2700-350			
Tit-like Dacnis	Xenodacnis parina	3450-350		AA	_
Rusty Flower-piercer	Diglossa sittoides	1900-350		Su, LE	S
Moustached	Diglossa mystacalis	2600–350	00 R	Pi, LE, AA	S
Flower-piercer Black-throated	Diglossa brunneiventris	2600–350	00 R	Pi, LE, AA	S
Flower-piercer Deep-blue Flower-piercer	Diglossa glauca	1000-230	00 R	SP, Su	S
Bluish Flower-piercer	Diglossa caerulescens	1600-230		SP, Su, LE	S
Masked Flower-piercer	Diglossa cyanea	1500-350		Su, Pi, LE, AA	S
Plush-capped Finch	Catamblyrhynchus diadema	2000–325	-	Su, Pi, LE, AA	S
Incertae sedis ⁹				a an a n:	
Common Bush-Tanager	Chlorospingus ophthalmicus	1000-240		Co, SP, Su, Pi	S
Yellow-whiskered Bush-Tanager	Chlorospingus parvirostris	1100–260	00 R	Co, SP, Su, Pi	S
Yellow-throated Bush-Tanager	Chlorospingus flavigularis	800–160	00 R	Co, SP	S
Ash-throated Bush-Tanager	Chlorospingus canigularis	1000-160	00 R		S
Hepatic Tanager	Piranga flava	800-200	00 R	Co	S
Summer Tanager	Piranga rubra	250-150	00 B	SP	
Scarlet Tanager	Piranga olivacea	250-150		Co	S
White-winged Tanager	Piranga leucoptera	900-180	00 R	Co, SP	S
Red-crowned Ant-Tanager	Habia rubica	250-100		Mk, AC	S
Carmiol's Tanager	Chlorothraupis carmioli	450–125	50 R	AC, SP	S
Bananaquit	Coereba flaveola	250-150		Mk, Co, SP	S
Dull-colored Grassquit Emberizidae	Tiaris obscura	600	R		S
Rufous-collared Sparrow	Zonotrichia capensis	2500-350	00 R	Pi, LE, AA	S

		Elevational S range (m)	Seasonal status	Localities	Documen- tation
Yellow-browed Sparrow	Ammodranius aurifrons	250-1600	R	Mk, AC, Co, SP	s
Peruvian Sierra-Finch	Phrygilus punensis	3600	R		
Plumbeous Sierra-Finch	Phrygilus unicolor	3500	R		
Slaty Finch	Haplospiza rustica	950-3200		SP, Su, Pi, LE, AA	s*
Blue-black Grassquit	Volatinia jaearina	250-1000		Mk, Co	S
Slate-colored Seedeater	Sporophila schistacea	250-1000		Co, SP	s*
Lesson's Seedeater	Sporophila bouvronides	250-750	A	CU, 51	s
Lined Seedeater	Sporophila lineola	250-1000			S
Black-and-white Seedeater	Sporophila luctuosa	300-2000		Mk, Co, SP, Su	s
Yellow-bellied Seedeater	Sporophila nigricollis	300-1500	R		
Double-collared Seedeater	Sporophila caerulescens	250-600	A	Mk	
Chestnut-bellied Seedeater	Sporophila castaneiventris	250–1450	R	Mk, Co	S
Lesser Seed-Finch	Oryzoborus angolensis	250-1500	R	Mk, Co	s
Black-billed Seed-Finch	Oryzoborus atrirostris	250-500	R	-1	s
Band-tailed Seedeater	Catamenia analis	3000-3500			-
Plain-colored Seedeater	Catamenia inornata	3300-3500		AA	
Paramo Seedeater	Catamenia homochroa	2850-3450		LE, AA	s*
Pectoral Sparrow	Arremon taciturnus	250-1000		Mk, AC, Co	S
Chestnut-capped Brush-Finch	Buarremon brunneinucha	1300-2150		SP, SU	s
Stripe-headed Brush-Finch	Buarremon torquatus	2500-3250	R	Pi, AA	s
Olive Finch	Lysurus castaneiceps	900-1800	R	Co, SP	s
Black-faced Brush-Finch	Atlapetes melanolaemus	1400–3200		SP, Su, Pi, LE, AA	S
Red-capped Cardinal Cardinalidae	Paroaria gularis	250-500	R		S
Golden-bellied Grosbeak	Pheucticus chrysogaster	650–3500	R	LE	
Black-backed Grosbeak	Pheueticus aureoventris	600-3250	R	Su, LE, AA	S
Rose-breasted Grosbeak	Pheucticus ludovicianus	2600	V		
Yellow-shouldered Grosbeak	Parkerthraustes humeralis	250–650	R	AC	s*
Slate-colored Grosbeak	Saltator grossus	250-1000	R	Mk, AC, Co	S
Buff-throated Saltator	Saltator maximus	250-1500	R	Mk, AC, Co, SP	S
Grayish Saltator	Saltator coerulescens	250-900	R	Mk, AC, Co	S
Golden-billed Saltator	Saltator aurantiirostris	2600–3500	R	LE	s*
Blue-black Grosbeak	Cyanocompsa cyanoides	250–1400	R	Mk, AC, Co	S
Parulidae					
Golden-winged Warbler	Vermivora chrysoptera	2800	V		
Tropical Parula	Parula pitiayumi	700-1500	R	Mk, Co, SP	S
Blackburnian Warbler	Dendroica fusca	950-3000		Pi	S
Cerulean Warbler	Dendroica cerulea	700-1250		Co	S
Connecticut Warbler	Oporornis agilis	250-500	В		
Masked Yellowthroat	Geothlypis aequinoctialis	250–500	R	Mk	S
Canada Warbler	Wilsonia eanadensis	650-1600			S
Slate-throated Redstart	Myioborus miniatus	550-2100		Co, SP, Su	S
Spectacled Redstart	Myioborus melanocephalus	1600–3350	R	SP, Su, Pi, LE, AA	S
Two-banded Warbler	Basileuterus bivittatus	750-1500	R	Co, SP	S

		Elevational range (m)	Seasonal status	Localities	Documen- tation
Golden-bellied Warbler	Basileuterus chrysogaster	250–1200	R	Mk, AC, Co	S
Citrine Warbler	Basileuterus luteoviridis	2150-3400) R	Su, Pi, LE, AA	s
Pale-legged Warbler	Basileuterus signatus	1700-2900) R	Su, LE	s
Russet-crowned Warbler	Basileuterus coronatus	1100-2550		Co, SP, Su, Pi	S
Three-striped Warbler	Basileuterus tristriatus	1100-2100		Co, SP, Su	S
Buff-rumped Warbler	Phaeothlypis fulvicauda	250–1500		Mk, AC, Co, SP	s
lcteridae					
Russet-backed Oropendola	Psarocolius angustifrons	250-1900	R	Mk, AC, Co, SP, SU	S
Dusky-green Oropendola	Psarocolius atrovirens	1000-2700	R	SP, Su, LE	s*
Crested Oropendola	Psarocolius decumanus	250-1300		Mk, AC, Co, SP	s
Olive Oropendola	Psarocolius bifasciatus	250-800	R	Mk, AC, Co	s
Casqued Ôropendola	Clypicterus oseryi	250-800	R	Mk, AC	s
Mountain Cacique	Cacicus chrysonotus	2300-3250		Pi, LE, AA	r
Selva Cacique	Cacicus koepckeae	500	R	1., 22, 11.	r
Solitary Cacique	Cacicus solitarius	250-850	Ŕ	Mk, Co	s
Yellow-rumped Cacique	Cacicus cela	250-1050		Mk, AC, Co	S
Red-rumped Cacique	Cacicus haemorrhous	250-1000		, 110, 00	3
Yellow-billed Cacique	Amblycercus holoscriceus	2600–3300		LE	s*
Troupial	Icterus icterus	250-800	R		s
Epaulet Oriole	Icterus cayanensis	250-1200		Mk, AC, Co	s
Pale-eyed Blackbird	Agelastictus xanthophthalmus	250-500	Ř	,,	s
Giant Cowbird	Molothrus oryzivorus	250-800	R	Mk, AC	s
Shiny Cowbird	Molothrus bonariensis	250-500	R	,	
White-browed Blackbird	Leistes superciliaris	600	V		р
Bobolink Fringillidae	Dolichonyx oryzivorus	250–500	В		•
Hooded Siskin	Carduelis magellanica	400–3500	R	$\underset{Pi}{Mk, AC, Co, SP, Su,}$	S
Olivaceous Siskin	Carduelis olivacea	1100-2100	R	SP, Su	?
Purple-throated Euphonia	Euphonia chlorotica	250–450	R	,	
Thick-billed Euphonia	Euphonia laniirostris	250-1500	R	AC, Co	s
White-lored Euphonia	Euphonia chrysopasta	250-950	R	Mk, AC, Co	s
Bronze-green Euphonia	Euphonia mesochrysa	600-1800		Co, SP	s
White-vented Euphonia	Euphonia minuta	250-1050		Mk, AC, Co	S
Orange-bellied Euphonia	Euphonia xanthogaster	250-2100		Mk, AC, Co, SP, Su	S
Rufous-bellied Euphonia	Euphonia rufiventris	250-950		Mk, AC	s
Blue-naped Chlorophonia	Chlorophonia cyanea	250–1900	R	AC, Co, SP	S

¹ An individual photographed by Walker on 22 September 1995 at Cocha Salvador along the Rio Manu is the only confirmed record for Peru.

² The taxonomy of small hermits in southeastern Peru is uncertain. The treatment here follows Remsen et al. (2006), which is based on Hinkelmann and Schuchmann (1997). The common taxon in MBR is *longipennis*, treated by Remsen et al. (2006) as a subspecies of *ruber*. This taxon has been treated variously as a subspecies of *ruber* (e.g., Peters 1945; Schuchmann 1999; Dickinson 2003) or *stuarti* (e.g., Meyer de Schauensee 1966, 1970). Two specimens at the Field Museum that were collected in 1980 from 450 m at the base of the Pantiacolla were identified as nominate *stuarti* by Hinkelmann. All other specimens from MBR are *longipennis*. On the basis of this overlap, Hinkelmann and Schuchmann treated *stuarti* and *longipennis* as belonging to different species. Recent reexamination of these specimens and additional material from MBR suggests that these specimens are actually the green extreme of a variable population of hermits that belong to the taxon *longipennis* (Stotz and T. Schulenberg, pers. obs.) Farther out in the lowlands of southeastern Peru, another subspecies of *ruber*, *nigrocincta*, has been collected (Rio Colorado) as well as photographed. Additionally, Walker (pers. obs) believes he has seen

this small, more intensely colored form along forest streams in the lower parts of the Manu area, but there is no documentation of this. Our suspicion is that *longipennis* is best treated not as a subspecies of *ruber* but rather as a subspecies of *stuarti* and that birds at Manu are all *longipennis*, except perhaps for a population of *ruber* in the lower parts of the area. Clearly, further fieldwork needs to be focused on small hermits in the region.

³ The treatment of highland populations in the *Momotus momota* complex is controversial. Remsen et al. (2006) treat *aequatorialis* (comprised of two subspecies) as conspecific with the lowland *momota*. It is clear from the documentation accompanying this decision that one of the primary factors in lumping *aequatorialis* into *momota* was the existence of other lowland taxa within *momota* that were likely just as deserving of species status. In the absence of specific studies of the appropriate taxonomic rank for these taxa, the committee thought that there was no reason to treat *aequatorialis* differently.

We treat *Momotus aequatorialis* as distinct from *M. momota* to emphasize its disjunct elevational range in Manu and throughout its range (e.g., Hilty & Brown, 1986; Ridgely & Greenfield, 2001) and in recognition of its long treatment as distinct by a number of authors (Chapman, 1923; Hilty & Brown, 1986, Fjeldså & Krabbe, 1990; Ridgely & Greenfield, 2001; Dickinson, 2003).

- ⁴ Philydor erythrocercum is a widespread Amazonian foliage-gleaner. Philydor ochrogaster is the montane representative of it from central Peru to northern Bolivia. It is sometimes treated as a separate species (e.g., Sibley & Monroe, 1990), but its treatment as a subspecies by Remsen et al. (2006) is consistent with that by most authors. We treat it as a separate species here to emphasize its disjunct elevational range in Manu and throughout its range while acknowledging that there may be intergradation with the subspecies subfulvus in northern Peru (Ridgely & Tudor, 1994).
- ⁵ The Amazonian *Xiphocolaptes orenocensis* is occasionally treated as a distinct species from the Central American and Andean *Xiphocolaptes promeropirhynchus* (e.g., American Ornithologists' Union, 1983). However, most authors concur with their treatment by Remsen et al. (2006) as conspecific. We treat these taxa as separate species here in part because of the vocal differences between them but mainly to emphasize the distinct elevational ranges of the Amazonian *orenocensis* and the Andean forms of *promeropirhynchus*.
- ⁶ Two subspecies of *Myiarchus tuberculifer* replace one another elevationally in the Andes. The highland population *atriceps* and a lowland *tuberculifer* intergrade in the Andes of southern Bolivia (Lanyon, 1978). In Manu, there are *M. tuberculifer* along the entire elevational gradient. The similarity of the two forms and lack of specimens at intermediate elevations make it impossible for us to distinguish the elevational range of the two forms. The lowest elevation for which there is a specimen of *atriceps* in Manu is 1050 m; the highest *tuberculifer* specimen comes from 300 m.
- ⁷ The species treated here as incertae sedis (as in Remsen et al., 2006) include a number of taxa usually treated as cotingas, although most have at one time or another been placed in other families, especially Tyrannidae. Recent studies (Prum et al., 2000; Johansson et al., 2002; Chesser, 2004) indicate that the taxa from *Tityra* through *Pachyramphius* form a monophyletic group, but whether that group should be part of Cotingidae or a separate family (Tityridae) remains unclear. *Piprites* has usually been treated as a member of Pipridae. Most recent studies have not found evidence to support its inclusion there but have not made a convincing case for an alternate treatment.
- ⁸ *Donacobius* was long treated in Mimidae but more recently has been treated in Troglodytidae (e.g., American Ornithologists` Union, 1983). Molecular studies by Barker (2004) showed that *Donacobius* belonged in neither Mimidae nor Troglodytidae but did not provide a clear alternative placement within an existing family. As a result, Remsen et al. (2006) treat it as incertae sedis, as do we.
- ⁹ Recent molecular studies suggest that a number of genera traditionally placed in Thraupidae are not tanagers. Additionally, a set of mostly island taxa, spread among a several families but placed mainly in Emberizidae, form a monophyletic group associated with Thraupidae (Klicka et al., 2000; Burns et al., 2002, 2003; Yuri & Mindell, 2002). Because of incomplete taxon sampling and some disagreement among different studies of the placement of some genera, Remsen et al. (2006) treat these taxa as incertae sedis, awaiting the results of additional ongoing studies.

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