The birds of Reserva Ecológica Guapiaçu (REGUA), Rio de Janeiro, Brazil

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É apresentada uma lista da avifauna da Reserva Ecológica de Guapiaçu (REGUA), uma reserva privada de 6.500 ha localizada no município de Cachoeiras de Macacu, vizinha ao Parque Estadual dos Três Picos, Estação Ecológica do Paraíso e Parque Nacional da Serra dos Órgãos, parte de um dos maiores conjuntos protegidos do Estado do Rio de Janeiro. Foram registradas um total de 450 espécies de aves, das quais 63 consideradas de interesse para conservação, como Leucopternis lacernulatus, Harpyhaliaetus coronatus, Triclaria malachitacea, Myrmotherula minor, Dacnis nigripes, Sporophila frontalis e S. falcirostris. A reserva também está desenvolvendo um projeto de reintrodução dos localmente extintos Crax blumembachii e Aburria jacutinga, e de reforço das populações locais de Tinamus solitarius.

The Atlantic Forest of eastern Brazil and neighbouring Argentina and Paraguay is among the most imperilled biomes in the world. At least 188 bird species are endemic to it, and 70 globally threatened birds occur there, most of them endemics^{4,8}. The Atlantic Forest is not homogeneous and both latitudinal and longitudinal gradients account for diverse associations of discrete habitats and associated bird communities. Another factor accounting for the heterogeneity of the biome is the frequently steep altitudinal gradient found in parts of south-east Brazil, where the Serra do Mar and associated ranges rise steeply to over 1,000 m from the surrounding lowlands and coastal plain 18. Forest at lower altitudes was the first to be impacted by humans and has been mostly cleared for agriculture and pasture, making it unsurprising that many threatened birds are associated with lowland habitats^{3,4,6,18}.

The Serra dos Órgãos is one of the ornithologically best-known areas in the Atlantic Forest¹⁴. Its foothills have been visited by naturalists since the early 19th century, and are the source of rarities such as Kinglet Calyptura Calyptura cristata 10,14,15. The foothills were largely cleared to make room to coffee plantations and to obtain timber and firewood, while most of the vast swamp forests covering the lowlands between the hills and Guanabara Bay are gone because of extensive drainage in the early 20th century, mostly as part of efforts to control mosquito-borne diseases^{5,19}. Nevertheless small patches of forest in the lowlands did survive and the steep terrain of higher elevations retains much larger forests, while the abandonment of former plantations has permitted forest regeneration at lower altitudes. In consequence, more forest perhaps remains today than at the peak of the coffee boom in the early 20th century.

Some information has been published on the birds of lower (90-500 m) elevations in the region^{10,13}, but few areas have been subject to long-term surveys. Here we present the cumulative list of a privately protected area, Reserva Ecológica Guapiaçu (REGUA), which includes both low-lying parts of the Serra dos Órgãos massif and nearby higher ground, now mostly incorporated within the recently decreed 46,350-ha Três Picos State Park^{12,13,19}. REGUA, the Três Picos park and Serra dos Órgãos National Park (11,800 ha) form a continuum of some 600 km², one of the most extensive protected patches of Atlantic Forest¹⁶. REGUA is renowned in the ornithological literature as the sole site where Rio de Janeiro Antwren Myrmotherula fluminensis has been recorded since its description³.

Study area and Methods

Reserva Ecológica de Guapiaçu (REGUA) is located near the village of Guapiaçu, Cachoeiras de Macacu, Rio de Janeiro. The reserve comprises 6,500 ha of forest, ranging from c.30 to 2,200 m, adjoining the 46,350-ha Três Picos State Park. The reserve is drained by the rio Macacu basin. Most areas of level ground, originally covered by swamp forest, have been drained and are now occupied by pastures with scattered huge fig trees *Ficus clusiifolia* and *F. enormis* clad in bromeliads. In some parts (Fazenda São José) man-made wetlands with dense herbaceous cover and open water are used by waterbirds.

In the rolling terrain of the foothills to c.500 m, vegetation is mostly old (>25 years) second growth, with many legumes (Piptadenia gonoacantha, Anadenathera colubrina, Schizolobium parahyba and Inga spp.), figs and Myrsinaceae (Rapanea spp., mostly at edges), spiny palms Astrocaryum aculeatissimum and palmito palms Euterpe edulis





but comparatively few epiphytes. Patches of old banana groves and scattered jackfruit Artocarpus jaca are testimony to recent cultivation. Damp areas along creeks and in low-lying bowls possess dense Maranthaceae and banana-like Heliconia that attract hummingbirds. Higher, forest epiphytes, especially bromeliads, become much more common and there are more Myrtaceae, Sapotaceae and Lauraceae, indicative of more mature forest, as well as scattered very large Cariniana estrellensis trees. Above 600 m the forest is much like mature Atlantic Forest elsewhere. Bamboo thickets (especially a large Guadua sp.) are common only above 600 m, with only scattered plants in lower areas.

Higher elevation areas (above 900 m) are accessed from the northern edge of the Serra dos Órgãos massif, via Nova Friburgo and Teresópolis and local properties like Fazenda Campestre (22°21'42.50"S 42°40'30.77"E), and from there walking to REGUA through the forest. This area is the source of most high-elevation species. Another higher elevation site, recently incorporated into REGUA, is Casa do Waldenoor (22°25'14.22"S 42°49'00.30"W), near Teresópolis.

The main study sites were the trails leading to and around the research quarters $(22^{\circ}25'14.5"S 42^{\circ}44'19.3"W; 90 \text{ m})$, Casa do Aníbal $(22^{\circ}24'47.8"S 42^{\circ}45'17.6"W; 60-355 \text{ m})$, the Green Trail $(22^{\circ}22'52.8"S 42^{\circ}43'34.7"W; 170-1,300 \text{ m})$, Red Trail $(22^{\circ}23'27.7"S 42^{\circ}44'22.8"W; 400-950 \text{ m})$, Orange Trail $(22^{\circ}23'03.8"S 42^{\circ}43'47.7"W)$, Blue Trail $(22^{\circ}24'22.8"S 42^{\circ}44'37.8"W; 80-615 \text{ m})$ and the wetlands near the lodge of Vila São José $(22^{\circ}26'52"S 42^{\circ}46'14"W)$. A brief description of these follows.

Green Trail: one of the most important and frequently covered, with a length of $4.8\,\mathrm{km}$, starting at the Casa de Pesquisa and cutting a transect from 130 to 1,300 m. Up to 500 m the forest is old second growth with few palms and epiphytes. Above 500 m older, primary-looking forest appears, especially at 600–800 m. There are pockets with large trees >30 m, many *Euterpe edulis* palms, epiphytes and giant bamboos *Guadua* spp.

Red Trail: this cuts through some of the best forest in the reserve, and is a branch of the Green Trail. With a length of 3.3 km at elevations of 400–900 m, the lower montane forest along the trail has many trees >25 m laden with epiphytes, and many palms. Above 700 m the understorey is rich in *Guadua* bamboos, and at 800–900 m to the hilltops there is elfin forest clad in epiphytes such as orchids.

Blue Trail: a branch of the Green Trail, with a length of 4.2 km and a gradient of 80–615 m. Below 500 m the second-growth forest is dominated by legumes, has few palms and epiphytes but many old banana orchards. Higher, the forest is much

better, with trees >25 m, some quite large. *Euterpe* palms are common as well as epiphytes. The highest stretch, at c.600 m, cuts through *Chusquea* bamboo thickets.

Casa do Aníbal: one of the best areas for lowland species. The trail cuts a transect of $2.8~\rm km$ at $60-350~\rm m$, with second-growth forest $<80~\rm years$ old but very few epiphytes and Euterpe palms.

Wetland: in 2004 a project aiming to restore the wetlands commenced and this site was created. It is located in the lowest part of the reserve, at c.30 m, and is surrounded by pasture being planted with native trees or secondary forest edge.

Part of the survey was undertaken along the Red Trail, at 600–900 m, during a period when the common giant bamboos (Guadua spp.) were seeding, attracting the specialist Buffy-fronted Sporophila frontalis and Temminck's Seedeaters S. falcirostris. Another area of special attention was the wetland, where monitoring was deemed important, as was the 'antwren trail', near the Casa de Pesquisa, where Rio de Janeiro Antwrens were reportedly recorded. Other sites around the headquarters (younger forest and edge) were also surveyed.

The first bird list for REGUA was compiled during the 1990s by S. Knapp and A. Foster, who made extensive observations and mist-netted over the entire altitudinal gradient, and observed or photographed species not reported since, e.g. Chilean Flamingo *Phoenicopterus chilensis* and Minute Hermit *Phaethornis idaliae*. Subsequently, FO surveyed birds on 5–10 October (Casa de Pesquisa and Casa de Maria) and 9–16 November 2003 (the same), and on 31 May–8 June 2004 (all sites). LP has made observations in the area since November 2005, this paper presenting his results prior to May 2008. His total effort sums c.1,620 field hours.

Surveys were undertaken from dawn to about noon, and in late afternoon before sunset. Bird vocalisations were documented using a Sony TCM-EV5000 tape-recorder and a Sennheiser ME67 microphone. Reference recordings were used to locate selected species through playback. Whenever possible birds were documented with photographs and sound-recordings, the latter being available at http://www.xeno-canto.org (cited as XC hereafter).

During October–November 2003 mist-nets were placed along the trail near the Casa de Pesquisa where Rio de Janeiro Antwrens² had been reportedly seen, in an attempt to document the species. Fifteen 10-m nets were placed for two days in October and thirty on two days in November. Another ten mist-nets were used on one day near Casa de Maria in November. Trapped birds were photographed and released.

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Results and Discussion

A total of 453 bird species has been recorded at REGUA, 443 by us. The cumulative list for REGUA includes birds documented by other observers, such as Minute Hermit *Phaethornis idaliae* and Rufous-tailed Antbird *Drymophila genei* (both photographed) but not recently. This remarkable total owes much to the dramatic altitudinal gradient and habitat diversity of the area, and the large forest in the adjoining Três Picos State Park.

The presence of wetlands surrounded by young second growth adds to species richness. Some 114 species use the wetlands, most of them restricted to that habitat. Some (Wing-banded Hornero Furnarius figulus and Masked Water Tyrant Fluvicola nengeta) are recent colonisers that appeared only during the most recent decades 15,21. The same appears true of a few open-country species such as Whistling Heron Syrigma sibilatrix and Rufous-fronted Thornbird Phacellodomus rufifrons. Deforestation has permitted species such as Toco Toucan Ramphastos toco, Curl-crested Jay Cvanocorax cristatellus and Pale-breasted Spinetail Synallaxis albescens to invade the environs of the reserve. The record of a pair of Blue-fronted Amazon Amazona aestiva certainly refers to escapees, but this species has become established and nests in other parts of south-east Brazil (even in São Paulo city¹¹).

Other species such as Magnificent Frigatebird Fregata magnificens, Black-bellied Whistling Duck Dendrocygna autumnalis, Phoenicopterus chilensis and South American Tern Sterna hirundinacea are stragglers from Guanabara Bay, where the first two and last-named are common (A. Aroeira in litt. 2009), while the flamingo has been recorded several times²⁰.

The results show an obvious bias to lower elevation areas where most effort was expended. It is probable that many species recorded to date only in the lowlands will be found higher (especially raptors), while more time spent in montane forest and bamboo thickets will produce additional species.

REGUA lies at the southernmost tip of the range of several species of Amazonian affinity that occur in the northern Atlantic Forest lowlands¹⁷. These include White-flanked Antwren Myrmotherula axillaris luctuosa, Sooretama Slaty Antshrike Thamnophilus ambiguus, Cinereous Antshrike Thamnomanes caesius, White-lored Tyrannulet Ornithion inerme, Ochre-bellied Flycatcher Mionectes oleagineus, Dusky-capped Flycatcher Myiarchus tuberculifer, Eastern Striped Manakin Machaeropterus regulus, White-bellied Tanager Tangara brasiliensis, Yellow-green Grosbeak Caryothraustes canadensis and Orange-bellied Euphonia Euphonia xanthogaster. Other lowland species include Orange-winged Parrot Amazona

amazonica, which is common around Rio de Janeiro city and at Pocos das Antas Biological Reserve.

REGUA harbours several species of conservation concern, mostly Near Threatened taxa or birds considered threatened in the state of Rio de Janeiro. It should be noted that the populations of some species found at REGUA and elsewhere around the Serra dos Órgãos (e.g. Unicoloured Antwren *Myrmotherula unicolor*, Spot-breasted Antvireo *Dysithamnus stictothorax* and Eye-ringed Tody-Tyrant *Hemitriccus orbitatus*) contributed to their being downlisted by BirdLife International⁴.

As might be expected, following prolonged human impact, several species appear to be locally extinct and others no longer breed. Among the latter, we recorded a single Crested Oropendola *Psarocolius decumanus*, which species has been occasionally recorded along the rio Macacu, near REGUA¹⁴, and may be recolonising the region.

Locally extinct species include Red-billed Curassow Crax blumenbachii, Black-fronted Piping Guan Aburria jacutinga (all but extinct in Rio de Janeiro except, perhaps, near the border with São Paulo^{1,7}), Yellow-legged Tinamou *Crypturellus* noctivagus (considered extinct in Rio de Janeiro¹), Little Tinamou C. soui (another lowland bird still found at União and Poço das Antas biological reserves; J. F. Pacheco in litt. 2009), Variegated Tinamou C. variegatus (apparently extinct in Rio de Janeiro but recorded from lower areas around Cachoeiras de Macacu in the late 1960s1,17) and Blue-headed Parrot Pionus menstruus reichenowi (probably extinct in Rio de Janeiro1). Solitary Tinamou Tinamus solitarius is still present above 600 m, but is apparently unknown in the lowlands¹⁴. REGUA is promoting the reintroduction of Red-billed Curassow and Black-fronted Piping Guan^{1,2}, and plans to do likewise with the extinct tinamous and to augment the depleted population of Solitary Tinamou.

These 'missing' birds (and mammals such as Brazilian Tapir *Tapirus terrestris* and White-lipped Peccary *Tayassu pecari*) are poached, showing the impact this activity has on sensitive species, especially those restricted to low elevations. Human persecution may also account for the absence or extreme rarity of cagebirds such as Chestnut-bellied Seed Finch *Sporophila angolensis*, Rusty-collared Seedeater *S. collaris* and Ultramarine Grosbeak *Cyanocompsa brissonii*. Reintroductions and translocations could restore all of these species.

Continuous protection is needed to guarantee populations of species currently uncommon (such as guans and Solitary Tinamou) to increase and, eventually, to reintroduce some of the 'lost' species.

Selected species accounts

Solitary Tinamou Tinamus solitarius Uncommon throughout Rio de Janeiro, where considered

threatened¹. In the reserve, found only above 500 m, where rare. On 10 October 2008 one observed on the Red Trail following playback, while a nest with four eggs found on 15 November 2007 was predated. Captive-bred birds have been released at lower elevations since early 2009. A globally Near Threatened species⁴.

Bicoloured Hawk *Accipiter bicolor* Not previously recorded in the Serra dos Órgãos¹⁴. Rare with only two records: one seen perched at 15 m on a *Cecropia* near Casa do Aníbal, on 10 November 2006, and, more recently, one was seen on 15 October 2007, on the São José Trail.

White-necked Hawk Leucopternis lacernulatus Found only in the lower part of the reserve, with records year-round, sometimes following army ant swarms. One seen perched low (c.2 m) along the trail to Casa de Maria on 7 October 2003. A large half-eaten Leptodactylus frog found nearby was a potential prey. This globally Vulnerable species seems commonest at lower elevations but does occur higher such as in the outskirts of São Paulo city. A lone Mantled Hawk L. polionotus (Near Threatened) was recorded along the same trail on 8 June 2004.

Mantled Hawk *Leucopternis polionotus* Fairly common throughout the reserve, with most observations of soaring birds. Also seen following army ant swarms and catching large insects such as cockroaches. Considered Near Threatened in Rio de Janeiro¹ and globally³. Tape-recorded (XC13726).

Crowned Eagle Harpyhaliaetus coronatus Rare in the Serra dos Órgãos, where associated with montane grassland¹⁴. Recorded once, on 5 June 2007, when a pair was observed soaring low above forest until mobbed by a Black-and-white Hawk-Eagle Spizaetus melanoleucus. Tape-recorded (XC14006). The Museu de Zoologia da Universidade de São Paulo has two juveniles collected near Rio de Janeiro (Niterói) suggesting dispersal to lower areas. A globally threatened species⁴.

Black Hawk-Eagle *Spizaetus tyrannus* Perhaps the commonest large raptor in the reserve and over much of the southern Atlantic Forest. Detected by its conspicuous calls almost daily in higher areas of REGUA, and commonly seen soaring over lower parts (Fig. 1). Records of juveniles suggest breeding in the area. Considered probably threatened in Rio de Janeiro¹. Tape-recorded (XC14001, XC13981).

Black-and-white Hawk-Eagle Spizaetus melanoleucus Recorded throughout the reserve, most frequently in the second half of the year. A pair seen soaring with a Grey-headed Kite Leptodon

cayanensis on 15 November 2003 at the start of the trail to Casa de Maria and three soaring low over forest in October 2007. Usually at low density and uncommon throughout the Atlantic Forest, it is considered Vulnerable in Rio de Janeiro¹.

Brown-backed Parrotlet Touit melanonotus A rare and globally threatened species³ with few records in the Serra dos Órgãos¹⁴. A flock of four heard calling in low flight over the Green Trail on 26 May 2008.

Golden-tailed Parrotlet *Touit surdus* This genus of small, inconspicuous parrots is notoriously difficult to identify to species. Two seen in flight near the Casa de Pesquisa on 7 October 2003 could have been either *T. surdus* or *T. melanonotus*. Calls tape-recorded (XC13972) on 3 June 2004 were identified as being of *T. surdus* (J. F. Pacheco *in litt*. 2009). Positive sightings of small groups have been made with some frequency at 200–700 m. On 5 May 2006 a group of six was observed feeding in the canopy of a Lauraceae. Considered globally Vulnerable⁴.

Blue-bellied Parrot Triclaria malachitacea Pairs or small groups (3–4) can be seen or heard daily (sometimes on the ground) above 500 m, especially along the Green, Red and Orange trails. REGUA appears to harbour a significant population of this species, and may be its stronghold in Rio de Janeiro¹². Considered globally Near Threatened⁴. Tape-recorded (XC12828).

Lesser Swallow-tailed Swift Panyptila cayennensis Rarely recorded in the Serra dos Órgãos¹⁴, there are several records by visiting birdwatchers, who sometimes misidentified it for the similar Neotropical Palm Swift Tachornis squamata, and one by FO of a single bird over the wetlands in 27 November 2006.

White-bearded Antshrike *Biatas nigropectus* A bamboo specialist with a patchy and local distribution, it is globally Vulnerable^{4,17}. Rare in the reserve, where occasionally recorded in *Guadua*-dominated areas above 700 m (Fig. 2).

Cinereous Antshrike Thamnomanes caesius One responded to playback (but did not approach), near the Casa de Pesquisa on 7 October 2003, but not recorded since. This species reaches the southern limit of its range in Rio de Janeiro, where it is known from very few sites^{10,14}.

Salvadori's Antwren Myrmotherula minor First recorded on 10 November 2003, the species is rare and has been recorded above 400 m along the Green, Red, Grey and Blue trails, always in







Figure I. Black Hawk-Eagle Spizaetus tyrannus, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, August 2007 (Leonardo Pimentel)



Figure 2. Male White-bearded Antshrike *Biatas nigropectus*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, August 2010 (Leonardo Pimentel)



Figure 3. Male Salvadori's Antwren *Myrmotherula minor*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, May 2008 (Leonardo Pimentel)



Figure 4. Female Slaty Bristlefront *Merulaxis ater*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, September 2009 (Leonardo Pimentel)







Figure 4 (left). Oustalet's Tyrannulet *Phylloscartes oustaleti*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, August 2007 (Leonardo Pimentel)

Figure 5 (middle). Russet-winged Spadebill *Platyrinchus leucoryphus*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, October 2007 (Leonardo Pimentel)

Figure 6 (right). Elegant Mourner *Laniisoma elegans*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, October 2007 (Leonardo Pimentel)

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pairs or small groups of up to five, sometimes with mixed-species flocks, moving c.3–4 m above ground (Fig. 3). Considered globally Vulnerable⁴ and not previously recorded in the Serra dos Órgãos¹⁴.

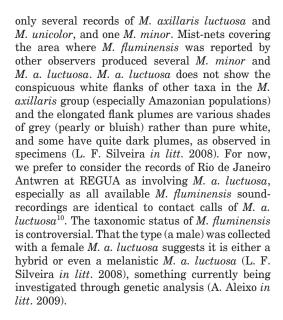
Rio de Janeiro Antwren *Myrmotherula fluminensis* Documenting this species was one of the main goals of the surveys in 2003–04. Observations along the 'antwren trail' produced



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Figure 8. Male Black-legged Dacnis *Dacnis nigripes*, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, August 2007 (Leonardo Pimentel)



Unicoloured Antwren Myrmotherula unicolor Recorded daily below 500 m, both in old second growth and in dense, tangled vegetation along creeks. Formerly considered Vulnerable, this Atlantic Forest endemic is now treated as Near Threatened⁴, and REGUA can be considered as a stronghold. Tape-recorded (XC11809).

Slaty Bristlefront *Merulaxis ater* Common >700 m, but lower only in two areas along the Green and Blue trails (Fig. 4). Globally Near Threatened⁴. Tape-recorded (XC15839).

Pale-breasted Spinetail Synallaxis albescens One record, on 30 October 2007, when two birds called repeatedly from tangled vegetation in the wetland area. They readily approached to playback and were tape-recorded (XC15858).



Figure 9. Buffy-fronted Seedeater Sporophila frontalis, Reserva Ecológica Guapiaçu, Rio de Janeiro, south-east Brazil, May 2008 (Leonardo Pimentel)

Eye-ringed Tody-Tyrant Hemitriccus orbitatus Fairly common in lower areas and was mist-netted several times. As in other areas near the Serra dos Órgãos this species appears to be among the commonest forest insectivores⁷. Considered globally Near Threatened⁴, a designation it perhaps does not merit. Tape-recorded (XC13027).

Greenish Elaenia *Myiopagis viridicata* REGUA is the site of the first record for Rio de Janeiro¹⁵. One foraged at the edge of secondary forest by the reserve headquarters on 5 May 2008 and several times thereafter; also seen around the lodge's gardens in early morning. Tape-recorded (XC20642).

White-lored Tyrannulet Ornithion inerme One bird observed on 8 October 2004 by the 'antwren trail' while perched in the lower canopy. The species reaches the southern edge of its range in Rio de Janeiro, where it is considered Vulnerable¹. This appears to be the first record for the Serra dos Órgãos¹⁴.

São Paulo Tyrannulet *Phylloscartes paulista* One seen in the midstorey on 8 June 2003 with a large mixed-species flock near Casa de Maria. Considered globally Near Threatened⁴, the species' distribution and taxonomy still pose problems (J. F. Pacheco pers. comm.). A globally Near Threatened species⁴, this appears to be the first record for the Serra dos Órgãos region¹⁴.

Oustalet's Tyrannulet *Phylloscartes oustaleti* Records in the Serra dos Órgãos are based on old specimens and it was considered probably extinct there¹⁴. In 2006 it was rediscovered at Nova Friburgo within the Três Picos park¹². On 6 October 2003 a pair was present in a mixed-species canopy flock in mature forest at Base 1, one individual descending in response to playback. Several records





since, always >500 m, especially along the Red, Green and Black trails (Fig. 5). Tape-recorded (XC13714).

Russet-winged Spadebill Platyrinchus leucoryphus First recorded by us on 5 June 2007 at c.500 m on the Red Trail. Since found regularly throughout the reserve, always singly in the lower understorey foraging for insects (Fig. 6). Regular in at least five places on the Green, Red and Grey trails. Globally Vulnerable^{1,4}. Tape-recorded (XC13716).

Olive-sided Flycatcher Contopus cooperi A Nearctic migrant that is uncommon in south-east Brazil²¹. One present for two weeks in March 2006 flycatching from a dead Cecropia at Casa do Aníbal is the first record for the Serra dos Órgãos¹⁴.

Bare-throated Bellbird Procnias nudicollis Easily recorded throughout the reserve, most conspicuously after May-June, when vocal activity is more intense. Scarce in Rio de Janeiro and elsewhere in the Atlantic Forest because of heavy trapping and considered globally Vulnerable⁴. Tape-recorded (XC12851, XC15833).

Red-ruffed Fruitcrow Pyroderus scutatus Rare and threatened in Rio de Janeiro¹, its presence in the Serra dos Órgãos is documented only by old specimens and the species was feared locally extinct¹³. Scattered records available in the reserve, below 200 m. On 14 July 2007, one at the edge of secondary forest in the wetland area responded promptly to playback, and two were seen next day on the Green Trail at c.150 m while perched in the canopy, but were very wary.

Wing-barred Piprites Piprites chloris On 18 August 2008 one with a mixed-species canopy flock at c.500 m along the Grey Trail; it responded immediately to playback. The first documented record for Rio de Janeiro¹⁷. Tape-recorded (XC29562).

Thrush-like Mourner Schiffornis turdina Uncommon in Rio de Janeiro, where it reaches the southern edge of its range near REGUA. Scattered records along the Blue and Red trails, always responding strongly to playback. Tape-recorded (XC14003).

Elegant Mourner Laniisoma elegans Frequent at REGUA, where almost common. During February-August it is found at lower elevations (50–300 m), moving to 500-800 m thereafter. Always found alone, hairy caterpillars are a common food item. This Atlantic Forest endemic is considered globally Near Threatened⁴. Tape-recorded (XC14005) and photographed (Fig. 7).

Long-billed Gnatwren Ramphocaenus melanurus A pair observed for several minutes and photographed at Base 1 on 6 October 2003 foraging in the canopy; the species is usually found at lower elevations in the southern Atlantic Forest. Considered Vulnerable in Rio de Janeiro¹, this is the first documented record for the Serra dos Órgãos¹⁴.

Eastern Slaty Thrush Turdus subalaris On 2 September 2008 one was singing constantly in the canopy along the Green Trail at c.150 m. The next week two birds were found along the same trail, at 400 m, when photographs were taken. This is the first documented record for the Serra dos Órgãos of this inter-tropical migrant¹⁴.

White-bellied Tanager Tangara brasiliensis Formerly treated as a subspecies of T. mexicana, T. brasiliensis in eastern Brazil is as genetically distinct from T. mexicana in Amazonia as other Tangara⁶. This Atlantic Forest endemic is considered Vulnerable in Rio de Janeiro, at the southern end of its range, and may merit listing as globally Near Threatened or even Vulnerable. A group of 3–4 were first recorded along the 'antwren trail' on 9-11 October 2003, occasionally with other tanagers. Common in open areas and at forest edge, frequently visiting fruiting fig trees in adjoining pastures. Seen in family groups of 2-8 birds. Tape-recorded (XC13062).

Black-legged Dacnis Dacnis nigripes First recorded when three females (or immatures) were seen on 8 October 2003 along the 'antwren trail' in a canopy flock (including Rufous-winged Antwren Herpsilochmus rufimarginatus) that may also have included one male (not seen well). Easily overlooked and few records since, usually involving small flocks of up to five visiting lower areas during winter (Fig. 8). On 20 August 2007 a flock of four was at Casa do Aníbal. Considered globally Near Threatened⁴.

Buffy-fronted Seedeater Sporophila frontalis A globally threatened 1,4 specialist tracking mast-seedings of Guadua and Merostachys bamboos. First recorded at REGUA on 11 July 2006, when flocks numbering >100 were feeding on seeds of Guadua bamboo at 700-1,000 m on the Green and Red trails. When seeding was over in higher areas they moved to secondary forests at c.300 m where they fed on seeds of an abundant Cyperaceae (apparently a Scleria sp.) on the forest floor and in clearings. Tape-recorded (XC11727).

Temminck's Seedeater Sporophila falcirostris Another threatened bamboo specialist^{1,4} it was recorded during the same bamboo seeding as the





previous species, but in smaller numbers. After the bamboo set seed at higher elevations, the species was also observed between 50 and 400 m. Males were seen alone singing constantly atop the tallest trees, while females and young occurred in small flocks in the understorey and bamboo tickets. Tape-recorded (XC12826).

Chestnut-bellied Seed Finch Sporophila angolensis Considered probably extinct in the Serra dos Órgãos, the last record was made in 1950¹⁴. An adult male was singing in a dead tree at the wetland on 2 April 2007, and was seen for the next three weeks until it disappeared, probably caught by bird trappers living nearby. Tape-recorded (XC13103).

Acknowledgements

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Cotinga 33

Table 1. Bird species recorded in Reserva Ecológica de Guapiaçu (REGUA), Rio de Janeiro, Brazil. Nomenclature follows CBRO (http://www.ib.usp/cbro).

Abundance: C = common (recorded in appropriate habitat >80% of field days); F = fairly common (50-80%); U = uncommon (20-50%); R = rare (>20%).

Evidence: S = sight; V = voice; T = tape-recorded; M = mist-netted; P = photographed.

Habitat: W = wetlands; O = pasture and agricultural areas; E = edges; L = old second growth at 90-500 / 600 m; H = forest above 600 m.

* = introduced or feral, " = probable migrant, absent during part of year or subject to obvious changes in numbers, * = not recorded by us.

recorded by us.				
Species	English name	Abundance	Evidence	Habitat
TINAMIDAE			01/7	
Tinamus solitarius	Solitary Tinamou	R	S,V,T	H
Crypturellus obsoletus	Brown Tinamou	C	S,V,T	L,H
Crypturellus tataupa	Tataupa Tinamou	С	S,V,T	E,L
ANATIDAE	·	_		
Dendrocygna viduata	White-faced Whistling Duck	С	S,V,T,P	W
Dendrocygna autumnalis	Black-bellied Whistling Duck	R	S,V,P	W
Cairina moschata	Muscovy Duck	F	S,P	W
Amazonetta brasiliensis	Brazilian Duck	С	S,V,T,P	W
Nomonyx dominica	Masked Duck	F	S,P	W
CRACIDAE				
Penelope superciliaris	Rusty-margined Guan	U	S,V	E,L
Penelope obscura	Dusky-legged Guan	F	S,V,T,P	Н
ODONTOPHORIDAE				
Odontophorus capueira	Spot-winged Wood Quail	F	S,V,T	L,H
PODICIPEDIDAE	opot milgot moot Quaii			
Tachybaptus dominicus	Least Grebe	С	S,V,P	W
Podilymbus podiceps	Pied-billed Grebe	U	S,P	W
PHALACROCORACIDAE	rica-billed drebe			
Phalacrocorax brasilianus	Neotropic Cormorant	R	S,P	W
ANHINGIDAE	reodropic Cormorane			
Anhinga anhinga	Anhinga	R	S	W
FREGATIDAE	Allilliga			
	Magnificant Enjoyatahind	R	S	W
Fregata magnificens ARDEIDAE	Magnificent Frigatebird			
	Defenses Time House	U	S,V,P	W
Tigrisoma lineatum	Rufescent Tiger Heron	R	S	W
Cochlearius cochlearius	Boat-billed Heron	R	S,P	W
Botaurus pinnatus	Pinnated Bittern	R	S	W
Ixobrychus exilis	Least Bittern	R	S,P	W
lxobrychus involucris	Stripe-backed Bittern	C	S,V,T,P	W
Nycticorax nycticorax	Black-crowned Night Heron	C	S,V,T,P	W
Butorides striata	Striated Heron	C	S,V,T,P	W,O
Bubulcus ibis	Cattle Egret	R	S,P	W
Ardea cocoi	White-necked Heron	F	S,P	W
Ardea alba	Great Egret	F	S,P	W
Syrigma sibilatrix ^m	Whistling Heron	C	S,P	W
Pilherodius pileatus	Capped Heron	C	S,V,T,P	W
Egretta thula	Snowy Egret	R	S,P	W
Egretta caerulea	Little Blue Heron	IX.	3,1	* *
THRESKIORNITHIDAE		R	S,V,P	0
Theristicus caudatus	Buff-necked Ibis	R	S,P	0
Platalea ajaja	Roseate Spoonbill	N	3,1	O
PHOENICOPTERIDAE		D	C D	W
Phoenicopterus chilensis ⁺	Chilean Flamingo	R	S,P	٧٧
CATHARTIDAE		С	C D	\\\ O
Cathartes aura	Turkey Vulture	F	S,P	W,O,E,L
Cathartes burrovianus	Lesser Yellow-headed Vulture	•	S,P	W,O,E
Coragyps atratus	Black Vulture	С	S,P	W,O,E,L,H





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Recipiter bottor	Accipiter striatus ⁺	Rufous-thighed Hawk			
Certainspiac acerulescens	Accipiter bicolor	Bicoloured Hawk			_
Leucopteria doctinuitus Vinte-necked hawk R S E	Geranospiza caerulescens			,	_
Leucoptems potentials	Leucopternis lacernulatus	White-necked Hawk		,	_
Butee	Leucopternis polionotus			, ,	,
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Southern Laracara Vellow-headed Caracara R Milvago chimandpo* Chimango Caracara R Milvago chimandpo* Collared Forest Falcon R Micrastur semitorquatus Collared Forest Falcon R S,V,T,P E,L Micrastur semitorquatus Collared Forest Falcon R S,V,P O Falco sparverius American Kestrel R S,V,P O Falco femoralis Aplomado Falcon R ARAMIDAE Aramies guarauna Limpkin U S,V,P W Aramies cajanea Grey-necked Wood Rail R RALLIDAE Aramiedes cajanea Grey-necked Wood Rail R Aramiedes cajanea Grey-necked Wood Rail F S,V,T W Aramies saracura Slaty-breasted Wood Rail F S,V,T W Amaurolimnos concolor Uniform Crake R S,V,T W Amaurolimnos concolor Uniform Crake R S,V,T W Laterallus wiridis Russet-crowned Crake C S,V,T,P W Laterallus melanophoius R Rufous-sided Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pordrirollus ingircans Blackish Rail R S,V,T,P W Pordrirollus ingircans Blackish Rail R S,V,T,P W Pordrirollus ingircans Blackish Rail R S,V,T,P W Gallinula chloropus Moorhen R S,P W Gallinula melanops Spot-flanked Gallinule C S,V,T,P W Porlyphyrio martinica Purple Gallinule C C S,V,T,P W CARIAMIDAE C C C S,V,T,P W C C C CARIAMIDAE C C C C CARIAMIDAE C C C C C CARIAMIDAE C C C C C C C C C C C C C C C C C C C	FALCONIDAE		C	C \/ D	W/OF
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Milvago chrimango Chimango Caracara Laughing Falcon Micrastur ruficollis Barred Forest Falcon Micrastur ruficollis Barred Forest Falcon Micrastur semitorquatus Collared Forest Falcon R SV,T,P EL Micrastur semitorquatus Collared Forest Falcon R SV,P O Falco Sparverius American Kestrel R SV,P O Falco rufigularis Bat Falcon R SV,P WO ARAMIDAE Aramus guarauna Limpkin R RLLIDAE Aramus guarauna Caraced Wood Rail R Aramides soriacura Slaty-breasted Wood Rail R Aramides soriacura Slaty-breasted Wood Rail R Aramides soriacura Slaty-breasted Wood Rail R SV,T W W Aramides soriacura Slaty-breasted Wood Rail R SV,T W W Aramides soriacura Slaty-breasted Wood Rail R SV,T W W Aramides soriacura	Milvago chimachima	Yellow-headed Caracara			
Herpetothrees acchinans Laughing Falcon Microstur ruficollis Barred Forest Falcon R SV,T,P E,L Microstur semitorquatus Collared Forest Falcon R SV,P O Falco sparverius American Kestrel R S S W,O Falco emoralis Aplomado Falcon RARAMIDAE Aramides carjanea Limpkin RALLIDAE Aramides carjanea Grey-necked Wood Rail R Aramides soracura Slaty-breasted Wood Rail R S,V,T W W Aramides soracura Slaty-breasted Wood Rail R S,V,T W W Aramides soracura Slaty-breasted Wood Rail R S,V,T W W Aramides cojenea C S,V,T,P W W Aramides cojenea C S,V,T,P W W Aramides cojenea R S,V,T W W W Aramides cojenea S,V,T,P W W W Aramides cojenea R S,V,T W W W Aramides cojenea R S,V,T W W W W Aramides cojenea S,V,T,P W W W W W Aramides cojenea R S,V,T W W W W W Aramides cojenea R S,V,T W W W W W W W W W W W W W W W W W W W	Milvago chimango [†]	Chimango Caracara			
Microstur remitorquatus Collared Forest Falcon Ricrostur semitorquatus Collared Forest Falcon Ricrostur semitorquatus American Kestrel Ricks sproverius American Kestrel Ricks sproverius Bat Falcon Ricks sproverius Aplomado Falcon Richo femoralis Apramus guarauna Limpkin RILLIDAE Aramides cajanea Grey-necked Wood Rail Richo femoralis	Herpetotheres cachinnans	Laughing Falcon	•		
Micristur seminorquatus American Kestrel R S,V,P O Falco payorerius Aplomado Falcon RAPIDAE Aramise guarauna Limpkin RALLIDAE Aramides cajanea Aramides cajanea Aramides caracura Slaty-breasted Wood Rail Aramides saracura Slaty-breasted Wood Rail F Aramides saracura Slaty-breasted Wood Rail Aramides saracura Mulform Crake C S,V,T W Aramides wirdis Russet-crowned Crake Literallus wirdis Russet-crowned Crake C S,V,T,P W Cardirallus melanophalus Rufous-sided Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus ingiricans Blackish Rail C S,V,T,P W Aramides sanguinolentus Plumbeous Rail C S,V,T,P W Aramides sanguinolentus Plumbeous Rail R S,P W Callinula chloropus Moorhen C S,V,T,P W Allinula chloropus Moorhen R S,P W CARIAMIDAE Aramides Sungrebe C C S,V,T,P W Aramides cajanea R S,P W CARIAMIDAE CAR	Micrastur ruficollis	Barred Forest Falcon			
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Aramus guarauna Limpkin RALLIDAE Aramides cajanea Aramides saracura Slaty-breasted Wood Rail Aramides saracura Aramides saracura Slaty-breasted Wood Rail Aramides Sy,T,T W W Aramides saracura	Falco femoralis	Aplomado Falcon	U	3	vv,O
RALLIDAE Aramides cajanea Aramides cajanea Aramides saracura Slaty-breasted Wood Rail Aramides saracura Slaty-breasted Wood Rail Aramides saracura Slaty-breasted Wood Rail Aramides saracura Amaurolinnas concolor Laterallus viridis Russet-crowned Crake C S,V,T W Laterallus melanophaius Rufous-sided Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nigricans Blackish Rail C S,V,P W Pardirallus sanguinolentus Plumbeous Rail R S,V,T,P W Gallinula chloropus Moorhen C S,V,T,P W Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliomis fulica CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T,P W Gallinago undulata R S,V,T,P W,O SV,T,P W,O SV,T,P W,O SV,T,P W,O SV,T,P W,O	ARAMIDAE		П	C \/ D	\\/
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Aramides cajanea Grey-hecked Wood Rail Aramides saracura Slaty-breasted Wood Rail Amaurolimnas concolor Uniform Crake R S,V,T W Amaurolimnas concolor Uniform Crake C S,V,T W Laterallus viridis Russet-crowned Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nigricans Blackish Rail C S,V,T,P W Pardirallus sanguinolentus Plumbeous Rail C S,V,T,P W Gallinula chloropus Moorhen C Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica Sungrebe CARIAMIDAE Cariama cristata Red-legged Seriema C CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T W S,V,T W S,V,T W S,V,T W S,V,T W Gallinago paraguaiae South American Snipe R S,V,T W Gallinago mudulata Giant Snipe R S,V,T W S,V,T W Gallinago paraguaiae South American Snipe R S,V,T W Gallinago paraguaiae South South Sinpe R S,V,T W Gallinago paraguaiae South American Snipe R S,V,T W Gallinago paraguaiae South American Snipe R S,V,T W Gallinago paraguaiae South South Sinpe R S,V,T W Gallinago paraguaiae South South Sinpe R S,V,T W Gallinago paraguaiae South Sinpe R S,V,T W GELIORNICH S,V,T W	RALLIDAE		D	CVT	\٨/
Aramides saracura Amaurolimnas concolor Laterallus viridis Russet-crowned Crake C S,V,T,P W Laterallus melanophaius Rufous-sided Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nejaricans Blackish Rail R S,V,T,P W Pardirallus sanguinolentus Plumbeous Rail C S,V,T,P W Gallinula chloropus Moorhen C S,V,T,P W Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R R S,V,T W O S,V,T,P W,O S,V,T,P W,O S,V,T,P W,O S,V,T,P W,O S,V,T,P W,O S,V,T,P W,O	Aramides cajanea	Grey-necked Wood Rail		, ,	
Amdurolininas Concolor Laterallus viridis Russet-crowned Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nigricans Blackish Rail R Pardirallus sanguinolentus Plumbeous Rail C Gallinula chloropus Moorhen C Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica C CARIAMIDAE	Aramides saracura	,	•		
Laterallus melanophaius Russet-Growned Crake C S,V,T,P W Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nigricans Blackish Rail R S,V,T,P W Pardirallus sanguinolentus Plumbeous Rail C S,V,T,P W Pardirallus sanguinolentus Plumbeous Rail C S,V,T,P W Gallinula chloropus Moorhen C S,V,T,P W Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica Sungrebe CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T W Gallinago undulata Giant Snipe R S,V,T,P W,O	Amaurolimnas concolor				
Porzana albicollis Ash-throated Crake C S,V,T,P W Pardirallus nigricans Blackish Rail C S,V,T,P W Pardirallus sanguinolentus Plumbeous Rail R S,V,T,P W Gallinula chloropus Moorhen C S,V,T,P W Gallinula melanops Spot-flanked Gallinule R S,P W Gallinula melanops Purple Gallinule C S,V,T,P W HELIORNITHIDAE Heliornis fulica Sungrebe R S,P W CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T,P W Gallinula melanops S,V,T,P W,O Gallinago undulata Giant Snipe R S,V,T,P W,O					
Pardirallus nigricans Blackish Rail Pardirallus nigricans Plumbeous Rail R S,V,T,P W Gallinula chloropus Moorhen Gallinula melanops Spot-flanked Gallinule Purple Gallinule HeliORNITHIDAE Heliornis fulica CARIAMIDAE Cariama cristata CARIAMIDAE CARIAMIDAE	Laterallus melanophaius				
Pardirallus nigricans Pardirallus sanguinolentus Plumbeous Rail Plumbeous Rail C S,V,T,P W Gallinula chloropus Moorhen R S,P W Gallinula melanops Spot-flanked Gallinule Purple Gallinule HELIORNITHIDAE Heliornis fulica Sungrebe CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata Giant Snipe R S,V,T,P W W S,V,T,P W,O S,V,T,P W,O S,V,T,P W,O		Ash-throated Crake			
Gallinula chloropus Moorhen C S,V,T,P W Gallinula melanops Spot-flanked Gallinule C S,P W Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica Sungrebe R S,P W CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe G S,V,T,P W Gallinula chloropus P S,V,T,P W,O Gallinago undulata C S,V,T,P W,O C S,V,T,P W,O C S,V,T,P W,O C S,V,T,P W,O C S,V,T,P W	Pardirallus nigricans	Blackish Rail			
Gallinula chiloropus Gallinula melanops Spot-flanked Gallinule Porphyrio martinica Purple Gallinule HELIORNITHIDAE Heliornis fulica CARIAMIDAE Cariama cristata CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata Giant Snipe R S,P W W S,P W C S,V,T,P W C S,V,T,P W,O C S,V,T,P W C C S,V,T,P W C C S,V,T,P W C C C S,V,T,P W C C C C C S,V,T,P W C C C C C C C C C C C C C C C C C C	Pardirallus sanguinolentus	Plumbeous Rail			
Porphyrio martinica Purple Gallinule C S,V,T,P W HELIORNITHIDAE Heliornis fulica Sungrebe R S,P W CARIAMIDAE Red-legged Seriema R S,V,P O CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T W Gallinago undulata Giant Snipe R S,V,T,P W Gallinago undulata Giant Snipe R S,V,T,P W C S,V,T W C S,V,T,P C S,V,T,	'	Moorhen			
HELIORNITHIDAE Heliornis fulica CARIAMIDAE Cariama cristata CHARADRIIDAE Vanellus chilensis SOUTH American Snipe Gallinago paraguaiae Gallinago undulata Furpie Gallinule Furpie Gallinule Furpie Gallinule Red. S,P W R S,V,P O C S,V,T,P W,O SOUTH American Snipe Gallinago undulata Furpie Gallinule R S,P W C S,V,P O C S,V,T,P W,O C S,V,T,P W C Gallinago undulata	'	Spot-flanked Gallinule			
Heliornis fulica CARIAMIDAE Cariama cristata Red-legged Seriema CHARADRIIDAE Vanellus chilensis SOuthern Lapwing SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata Sungrebe R S,P W S,V,P O S,V,T,P W,O S,V,T,P W,O C S,V,T,P W Gallinago paraguaiae South American Snipe Gallinago undulata R Sungrebe R S,V,T W S,V,T W S,V,T W S,V,T,P W South American Snipe R S,V,T W S,V,T,P W South American Snipe R S,V,T,P W	' '	Purple Gallinule	C	3, 7, 1,1	**
CARIAMIDAE Cariama cristata CHARADRIIDAE Vanellus chilensis SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata Sungrebe Red-legged Seriema C S,V,P O S,V,T,P W,O S,V,T,P W,O C S,V,T,P W Gallinago paraguaiae Giant Snipe R S,V,T W C S,V,T,P W C S,V,T,P W C S,V,T,P W	HELIORNITHIDAE		D	C D	\\/
Cariama cristata Red-legged Seriema R S,V,P O CHARADRIIDAE Vanellus chilensis Southern Lapwing SCOLOPACIDAE Gallinago paraguaiae South American Snipe R S,V,T W Gallinago undulata Giant Snipe R S,V,T,P W Gallinago undulata Giant Snipe R S,V,T,P W	•	Sungrebe	17	3,1	* *
CHARADRIIDAE Vanellus chilensis SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata South Snipe Gallinago undulata South Snipe Red-legged Seriema C S,V,T,P W,O S,V,T,P W C S			R	SVP	0
Vanellus chilensis SOUTHERN Lapwing C S,V,T,P W,O SCOLOPACIDAE Gallinago paraguaiae Giant Snipe C S,V,T,P W C S,V,T W C S,V,T W C S,V,T W C S,V,T,P W South American Snipe R S S W		Red-legged Seriema		٥, ۲, ۱	9
SCOLOPACIDAE Gallinago paraguaiae Gallinago undulata Giant Snipe R S,V,T W C S,V,T,P W Sallinago undulata Giant Snipe R S S W			C	SVTP	WO
Gallinago paraguaiae South American Snipe R S,V,T W Gallinago undulata Giant Snipe R S,V,T,P W R S,V,T,P W		Southern Lapwing	C	5, 7, 1,1	11,0
Gallinago undulata Giant Snipe C S,V,T,P W Gallinago undulata Giant Snipe R S W			R	SVT	W
Gaintogo unduiata Giant Snipe R S W	Gallinago paraguaiae	South American Snipe			
Actitis macularius ⁺ Spotted Sandpiper Spotted Sandpiper		•			
	Actitis macularius [†]	Spotted Sandpiper			**

		D	S,V,P	W
Tringa solitaria ^m	Solitary Sandpiper	R	5, ۷, ۲	٧٧
JACANIDAE		С	S,V,T,P	W
Jacana jacana	Wattled Jacana	C	3, 4, 1,1	**
STERNIDAE		R	S,P	W
Sterna hirundinacea ⁺	South American Tern	IX	5,1	**
COLUMBIDAE		R	S,V,T,P	0
Columbina minuta	Plain-breasted Ground Dove	C	S,V,T,M,P	0
Columbina talpacoti	Ruddy Ground Dove	R	S,V,P	W,E
Columbina squamata	Scaled Dove	R	S,V,P	E
Claravis pretiosa	Blue Ground Dove	R	S, v,i	0
Columba livia	Rock Pigeon	C	S,V,P	0
Patagioenas picazuro	Picazuro Pigeon	R	S,V	O,E
Patagioenas cayennensis	Pale-vented Pigeon	R	S,V	L,H
Patagioenas plumbea	Plumbeous Pigeon	C	S,V,T,M	L
Leptotila verreauxi	White-tipped Dove	F	S,V,T	L,H
Leptotila rufaxilla	Grey-fronted Dove	U	S,V,T,M	L
Geotrygon montana	Ruddy Quail-Dove		2,1,1,1	_
PSITTACIDAE		R	S,V	Е
Primolius maracana	Blue-winged Macaw	R	S,V	E
Aratinga leucophthalma	White-eyed Parakeet	R	S,P	E
Aratinga aurea*	Peach-fronted Parakeet	C	S,V,T,P	E,L,H
Pyrrhura frontalis	Maroon-bellied Parakeet	C	S,V,T,P	E,L,H
Forpus xanthopterygius	Blue-winged Parrotlet	C	S,V,T,P	L,H
Brotogeris tirica	Plain Parakeet	R	S,V	L,H
Touit melanonotus	Brown-backed Parrotlet	F	S,V,T	L,H
Touit surdus	Golden-tailed Parrotlet	F	S,V,T,P	L,H
Pionopsitta pileata	Pileated Parrot	C	S,V,T	L,H
Pionus maximiliani	Scaly-headed Parrot	U	S,V,P	W,O,E
Amazona amazonica	Orange-winged Parrot	R	S, v,i	L
Amazona aestiva*	Blue-fronted Amazon	C	S,V,T,P	L,H
Triclaria malachitacea	Blue-bellied Parrot	· ·	3, 7, 1,1	_,, ,
CUCULIDAE		С	S,V,T,M,P	E,L,H
Piaya cayana	Squirrel Cuckoo	R	S,V,P	E, =, 1 1
Coccyzus melacoryphus	Dark-billed Cuckoo	R	S,P	E
Coccyzus americanus	Yellow-billed Cuckoo	R	S,P	E
Coccyzus euleri	Pearly-breasted Cuckoo	R	S,V,T,P	W,E
Crotophaga major	Greater Ani	C	S,V,T,P	W,O
Crotophaga ani	Smooth-billed Ani	C	S,V,T,P	W,O
Guira guira	Guira Cuckoo	C	S,V,T,P	W,E
Tapera naevia	Striped Cuckoo		-, . , . , .	,_
TYTONIDAE	D 0 1	U	S,V,P	0
Tyto alba	Barn Owl		-, -,-	
STRIGIDAE	T : 15 1 0 1	F	S,V,P	E,L
Megascops choliba	Tropical Screech Owl	U	S,V,T,P	Ĺ
Megascops atricapilla	Variable Screech Owl	C	S,V,T,P	E,L
Pulsatrix koeniswaldiana	Tawny-browed Owl	R	S,V	E,L
Strix virgata	Mottled Owl	R	S,P	L
Strix huhula	Black-banded Owl	F	S,V,T,P	Н
Glaucidium minutissimum	Least Pygmy Owl	С	S,V,T,M,P	E,L
Glaucidium brasilianum	Ferruginous Pygmy Owl	С	S,V,T,P	0
Athene cunicularia	Burrowing Owl	F	S,V,P	E,L
Asio clamator NYCTIBIIDAE	Striped Owl			
Nyctibius aethereus	Long-tailed Potoo	R	S,P	L
Nyctibius griseus	Common Potoo	F	S,V,P	W,E,L
CAPRIMULGIDAE		_		
Lurocalis semitorquatus	Short-tailed Nighthawk	R	S,V	L
Nyctidromus albicollis	Pauraque	C	S,V,P	E,L
Caprimulgus longirostris	Band-winged Nightjar	R	S,V	W,E
Caprimulgus maculicaudus	Spot-tailed Nightjar	R	S,V	W,O





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Hydropsalis torquata APODIDAE	Scissor-tailed Nightjar	R	S,P	W,E
Cypseloides fumigatus	Sooty Swift	R	S	L
Streptoprocne zonaris	White-collared Swift	C	S,V,T,P	O,L,H
Streptoprocne biscutata	Biscutate Swift	R	S	L
Chaetura cinereiventris	Grey-rumped Swift	С	S,V,T	L,H
Chaetura meridionalis ^m	Ashy-tailed (Sick's) Swift	C	S,V	E,L
Panyptila cayennensis	Lesser Swallow-tailed Swift	R	S	L
TROCHILIDAE	Carry hilland I I amount	С	S,V,T,M,P	L,H
Ramphodon naevius Glaucis hirsutus	Saw-billed Hermit Rufous-breasted Hermit	С	S,V,T,M,P	E,L
		R	S,M,P	L,H
Phaethornis squalidus Phaethornis idaliae ⁺	Dusky-throated Hermit Minute Hermit	R	S,M,P	L
Phaethornis ruber	Reddish Hermit	С	S,V,T,M,P	L,H
	Planalto Hermit	R	S	Н
Phaethornis pretrei Phaethornis eurynome	Scale-throated Hermit	F	S,V,P	L,H
Eupetomena macroura	Swallow-tailed Hummingbird	С	S,V,M,P	E,L
Aphantochroa cirrochloris	Sombre Hummingbird	R	S	Н
Florisuga fusca ^m	Black Jacobin	С	S,V,M,P	E,L,H
Colibri serrirostris	White-vented Violet-ear	R	S,P	E,L
Anthracothorax nigricollis	Black-throated Mango	R	S	E
Stephanoxis lalandi	Plovercrest			
Lophornis magnificus	Frilled Coquette	U	S,P	L
Chlorostilbon lucidus	Glittering-bellied Emerald	R	S	L
Thalurania glaucopis	Violet-capped Woodnymph	С	S,V,M,P	E,L,H
Hylocharis cyanus	White-chinned Sapphire	F	S,V,P	E
Leucochloris albicollis	White-throated Hummingbird	С	S,V,P	L,H
Amazilia versicolor	Versicoloured Emerald	U	S	L,H
Amazilia fimbriata	Glittering-throated Emerald	С	S,P	E,L
Amazilia lactea	Sapphire-spangled Emerald	F	S	L
Clytolaema rubricauda	Brazilian Ruby	U	S,V,T,P	L,H
Calliphlox amethystina	Amethyst Woodstar	R	S	L
TROGONIDAE	7 4.1104.1/54 1 1 50 4544.			
Trogon viridis	White-tailed Trogon	R	S,V	L
Trogon surrucura aurantius	Surucua Trogon	С	S,V,T,P	L,H
Trogon rufus	Black-throated Trogon	F	S,V,T,P	L
ALCEDINIDAE	Ü	_		
Megaceryle torquata	Ringed Kingfisher	С	S,V,P	W
Chloroceryle amazona	Amazon Kingfisher	F	S,V,P	W
Chloroceryle americana	Green Kingfisher	U	S,V,P	W
MOMOTIDAE	•	_		
Baryphthengus ruficapillus GALBULIDAE	Rufous-capped Motmot	F	S,V,T	L
Galbula ruficauda	Rufous-tailed Jacamar	С	S,V,T,M,P	E,L
BUCCONIDAE	, ,			
Notharchus swainsoni	Buff-bellied Puffbird	R	S,V,T,P	L
Nystalus chacuru	White-eared Puffbird	R	S,V,T,P	0
, Malacoptila striata	Crescent-chested Puffbird	С	S,V,T,P	E,L
RAMPHASTIDAE				=
Ramphastos toco	Toco Toucan	R	S,V	W,E
Ramphastos vitellinus	Channel-billed Toucan	C	S,V,M,T,P	L,H
Ramphastos dicolorus	Red-breasted Toucan	R	S	L,H
Selenidera maculirostris	Spot-billed Toucanet	C	S,V,T,P	L,H
Pteroglossus bailloni	Saffron Toucanet	U	S,V,T,P	L,H
Pteroglossus aracari PICIDAE	Black-necked Aracari	R	S,V	E
Picumnus cirratus	White-barred Piculet	С	S,V,T,P	E,L,H
	White Woodpecker	U	S,V,T	W,O,E
Meignerbes candidus		•	0) / T	1.11
Melanerpes candidus Melanerpes flavifrons	Yellow-fronted Woodpecker	C C	S,V,T	L,H L,H

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Piculus flavigula	Yellow-throated Woodpecker	С	S,V,T,P	L
Piculus aurulentus	Yellow-browed Woodpecker	U	S,V,T,P	H
Colaptes melanochloros	Green-barred Woodpecker	R	S,V,T	W,L,H
Colaptes campestris	Campo Flicker	С	S,V,T,P	0
Celeus flavescens	Blond-crested Woodpecker	С	S,V,M,P	E,L
Dryocopus lineatus	Lineated Woodpecker	R	S,V,T,P	L,H
THAMNOPHILIDAE			01/77	
Hypoedaleus guttatus	Spot-backed Antshrike	С	S,V,T,P	L,H
Batara cinerea	Giant Antshrike	R	S,V,T	L,H
Mackenziaena severa	Tufted Antshrike	С	S,V,T,P	L,H
Biatas nigropectus	White-bearded Antshrike	R	S,V,T	H
Thamnophilus ruficapillus	Rufous-capped Antshrike	R	S,V	E
Thamnophilus palliatus	Chestnut-backed Antshrike	С	S,V,T,P	E
Thamnophilus ambiguus	Sooretama Slaty Antshrike	С	S,V,T,P	E,L
Thamnophilus caerulescens	Variable Antshrike	U	S,V,T,P	H
Dysithamnus stictothorax	Spot-breasted Antvireo	С	S,V,T,P	L
Dysithamnus mentalis	Plain Antvireo	С	S,V,T,P	L,H
Dysithamnus xanthopterus	Rufous-backed Antvireo	R	S,V	Н
Thamnomanes caesius	Cinereous Antshrike	R	V	L
Myrmotherula gularis	Star-throated Antwren	С	S,V,T,M,P	L,H
Myrmotherula axillaris	White-flanked Antwren	С	S,V,T,M,P	E,L
Myrmotherula minor	Salvadori's Antwren	U	S,V,T,P	L,H
Myrmotherula unicolor	Unicoloured Antwren	С	S,V,T,M,P	L
, Herpsilochmus rufimarginatus	Rufous-winged Antwren	С	S,V,T	L
Drymophila ferruginea	Ferruginous Antbird	С	S,V,T,P	L,H
Drymophila rubricollis	Bertoni's Antbird	С	S,V,T,P	Н
Drymophila genei [†]	Rufous-tailed Antbird	R	S,P	Н
Drymophila ochropyga	Ochre-rumped Antbird	F	S,V,T,P	L,H
Drymophila malura	Dusky-tailed Antbird	С	S,V,T,P	Н
Drymophila squamata	Scaled Antbird	С	S,V,T,M,P	L
Terenura maculata	Streak-capped Antwren	С	S,V,T	L,H
Pyriglena leucoptera	White-shouldered Fire-eye	С	S,V,T,M,P	L,H
Myrmeciza Ioricata	White-bibbed Antbird	С	S,V,T,M,P	L,H
CONOPOPHAGIDAE				
Conopophaga lineata	Rufous Gnateater	F	S,V,T,P	L,H
Conopophaga melanops	Black-cheeked Gnateater	С	S,V,T,M,P	L
GRALLARIIDAE				
Grallaria varia	Variegated Antpitta	С	S,V,T	L,H
RHYNOCRYPTIDAE	0 1			
Psilorhamphus guttatus	Spotted Bamboowren	F	S,V,T	Н
Merulaxis ater	Slaty Bristlefront	С	S,V,T,P	L,H
Scytalopus notorius	Mouse-coloured Tapaculo	R	S,V	Н
FORMICARIIDAE	·			
Formicarius colma	Rufous-capped Antthrush	С	S,V,T,P	L
Chamaeza campanisoma	Short-tailed Antthrush	F	S,V,T	L,H
Chamaeza meruloides	Cryptic Antthrush	F	S,V,T	Н
Chamaeza ruficauda	Rufous-tailed Antthrush	R	S,V,T	Н
SCLERURIDAE				
Sclerurus scansor	Rufous-breasted Leaftosser	С	S,V, T,M,P	L,H
DENDROCOLAPTIDAE				
Dendrocincla turdina	Thrush-like Woodcreeper	С	S,V,T,M,P	L,H
Sittasomus griseicaþillus	Olivaceous Woodcreeper	С	S,V,T,M,P	L,H
Xiphocolaptes albicollis	White-throated Woodcreeper	F	S,V,T	L,H
Dendrocolaptes platyrostris	Planalto Woodcreeper	U	S,V,P	L,H
Xiphorhynchus fuscus	Lesser Woodcreeper	С	S,V,T,M,P	L,H
Lepidocolaptes squamatus	Scaled Woodcreeper	F	S,V,T,P	Н
Campylorhamphus falcularius	Black-billed Scythebill	U	S,V,T,P	L,H
FURNARIIDAE				
Furnarius figulus	Wing-banded (Band-tailed) Hornero	С	S,V,T,P	W,O
Furnarius rufus	Rufous Hornero	С	S,V,T,P	W,O



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		F	S,V,T	L,H
Synallaxis ruficapilla	Rufous-capped Spinetail	U	S,V,T,P	L
Synallaxis cinerascens	Grey-bellied Spinetail	R	S,V,T,P	W
Synallaxis albescens	Pale-breasted Spinetail	Ü	S,V,T	E.L
Synallaxis spixi	Spix's Spinetail	F	S,V,T	H
Cranioleuca pallida	Pallid Spinetail	C	S,V,T,P	W
Certhiaxis cinnamomeus	Yellow-chinned Spinetail	C	S,V,T	0
Phacellodomus rufifrons	Rufous-fronted Thornbird	C	S,V,P	Н
Phacellodomus erythrophthalmus	Red-eyed Thornbird	F	S,V,T	Н
Anabacerthia amaurotis	White-browed Foliage-gleaner	F	S,V,T	Н
Syndactyla rufosuperciliata	Buff-browed Foliage-gleaner	F	S,V,P	L,H
Philydor lichtensteini	Ochre-breasted Foliage-gleaner	C	S,V,M,P	L,H
Philydor atricapillus	Black-capped Foliage-gleaner	C	S,V,T	L,H
Philydor rufum	Buff-fronted Foliage-gleaner	C	S,V,T	ь,п Н
Anabazenops fuscus	White-collared Foliage-gleaner	F	S,V,T,P	L,H
Cichlocolaptes leucophrus	Pale-browed Treehunter	C		L,H
Automolus leucophthalmus	White-eyed Foliage-gleaner	U	S,V,T,M,P	,
Lochmias nematura	Sharp-tailed Streamcreeper	F	S,V,T,M,P	L,H H
Heliobletus contaminatus	Sharp-billed Treehunter	C	S,V,P	
Xenops minutus	Plain Xenops		S,V,T,P	L,H
Xenops rutilans	Streaked Xenops	С	S,V,P	L,H
TYRANNIDAE		6	CVTMD	
Mionectes oleagineus	Ochre-bellied Flycatcher	С	S,V,T,M,P	E,L
Mionectes rufiventris	Grey-hooded Flycatcher	С	S,V,T,M,P	L,H
Leptopogon amaurocephalus	Sepia-capped Flycatcher	С	S,V,T,M,P	L,H
Corythopis delalandi	Southern Antpipit	С	S,V,T,M,P	L
Hemitriccus diops	Drab-breasted Bamboo Tyrant	С	S,V,T,P	H
Hemitriccus orbitatus	Eye-ringed Tody-Tyrant	С	S,V,T,M,P	L
Hemitriccus nidipendulus	Hangnest Tody-Tyrant	R	S,V,P	E,L
Myiornis auricularis	Eared Pygmy Tyrant	F	S,V,T,P	E,L
Poecilotriccus plumbeiceps	Ochre-faced Tody-Tyrant	F	S,V,T,P	L,H
Todirostrum poliocephalum	Yellow-lored Tody-Flycatcher	С	S,V,T,P	E
Todirostrum cinereum	Common Tody-Flycatcher	С	S,V,T,P	W,E
Phyllomyias burmeisteri	Rough-legged Tyrannulet	F	S,V,T,P	L,H
Phyllomyias virescens	Greenish Tyrannulet	U	S,V,P	Н
Phyllomyias fasciatus ^m	Planalto Tyrannulet	С	S,V,T,P	L,H
Phyllomyias griseocapilla	Grey-capped Tyrannulet	R	S,V,T,P	L,H
Myiopagis viridicata	Greenish Elaenia	R	S,V,T,P	E
Elaenia flavogaster	Yellow-bellied Elaenia	С	S,V,T,P	W,O,E
Elaenia parvirostris ^m	Small-billed Elaenia	R	S,V,P	E
Elaenia mesoleuca ^m	Olivaceous Elaenia	R	V	Н
Ornithion inerme	White-lored Tyrannulet	R	S,V	L
Camptostoma obsoletum	Southern Beardless Tyrannulet	С	S,V,T,P	E,L
Serpophaga nigricans	Sooty Tyrannulet	R	S,P	W
Serpophaga subcristata	White-crested Tyrannulet	R	S	Е
Capsiempis flaveola	Yellow Tyrannulet	С	S,V,T,P	E,L,H
Phylloscartes ventralis	Mottle-cheeked Tyrannulet	С	S,V,T	Н
Phylloscartes paulista	São Paulo Tyrannulet	R	S	L
Phylloscartes oustaleti	Oustalet's Tyrannulet	F	S,V,T,P	Н
Phylloscartes difficilis	Serra do Mar Tyrannulet	R	S,V,P	Н
Tolmomyias sulphurescens	Yellow-olive Flycatcher	С	S,V,T,P	L,H
Tolmomyias flaviventris	Yellow-breasted Flycatcher	F	S,V,T,P	Е
Platyrinchus mystaceus	White-throated Spadebill	С	S,V,T,P	L,H
Platyrinchus leucoryphus	Russet-winged Spadebill	U	S,V,T,P	L,H
Myiophobus fasciatus	Bran-coloured Flycatcher	F	S,V,T,P	W,O
Myiobius barbatus	Sulphur-rumped Flycatcher	F	S,V,M,P	L,H
,		U	S,P	Н
Myiobius atricaudus Hirundinea ferruginea	Black-tailed Flycatcher Cliff Flycatcher	U	S,V,T,P	L,H
Lathrotriccus euleri		С	S,V,T,M,P	L,H
Cnemotriccus fuscatus	Euler's Flycatcher	U	S,V,T,P	Е
·	Fuscous Flycatcher	R	S	L
Contopus cooperi	Olive-sided Flycatcher			

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		F	S,V,T,P	L,H
Contopus cinereus	Tropical Pewee	R	5, v, 1, F S,P	W,O
Pyrocephalus rubinus	Vermilion Flycatcher	R	S,P	L,H
Knipolegus cyanirostris	Blue-billed Black Tyrant	R	S,1	0
Knipolegus lophotes	Crested Black Tyrant	R	S	Н
Knipolegus nigerrimus	Velvety Black Tyrant	U	S,P	W,O
Satrapa icterophrys	Yellow-browed Tyrant	U	s,p	
Xolmis cinereus	Grey Monjita	U	s,r S,P	0
Xolmis velatus	White-rumped Monjita			
Gubernetes yetapa	Streamer-tailed Tyrant	R	S,V,P	W
Muscipipra vetula	Shear-tailed Grey Tyrant	F	S,V,T,P	H
Fluvicola nengeta	Masked Water Tyrant	С	S,V,T,P	W
Arundinicola leucocephala	White-headed Marsh Tyrant	C	S,V,T,P	W
Colonia colonus	Long-tailed Tyrant	U	S,V,T,P	L,H
Machetornis rixosa	Cattle Tyrant	C	S,V,T,P	0
Legatus leucophaius ^m	Piratic Flycatcher	С	S,V,T	L
Myiozetetes cayanensis	Rusty-margined Flycatcher	R	S,V,T,P	W,E
Myiozetetes similis	Social Flycatcher	С	S,V,T,P	W,E,L
Pitangus sulphuratus	Great Kiskadee	С	S,V,T,P	W,O,E
Conopias trivirgatus	Three-striped Flycatcher	R	S	L
Myiodynastes maculatus	Streaked Flycatcher	С	S,V,T,P	L,H
Megarhynchus pitangua	Boat-billed Flycatcher	С	S,V,T,P	E,L,H
Empidonomus varius ^m	Variegated Flycatcher	F	S,V,P	W,E,L
Tyrannus melancholicus ^m	Tropical Kingbird	С	S,V,T,P	W,O,E
Tyrannus savana ^m	Fork-tailed Flycatcher	F	S,V,P	W,O
Rhytipterna simplex	Greyish Mourner	F	S,V,T,M,P	L
Sirystes sibilator ^m	Sirystes	R	S,V,P	L,H
Myiarchus tuberculifer	Dusky-capped Flycatcher	R	S,V,T	L
Myiarchus swainsoni	Swainson's Flycatcher	R	S,V	L
Myiarchus ferox	Short-crested Flycatcher	С	S,V,T,P	W,E
Ramphotrigon megacephalum	Large-headed Flatbill	R	S,V,T,P	L,H
Attila rufus	Grey-hooded Attila	С	S,V,T,P	L,H
COTINGIDAE	Grey-Hooded Attila		6.0	
Phibalura flavirostris ^m	Swallow-tailed Cotinga	R	S,P	L,H
Carpornis cucullata	Hooded Berryeater	U	S,V,T,P	L,H
Procnias nudicollis ^m	Bare-throated Bellbird	С	S,V,T,P	L,H
Tijuca atra	Black-and-gold Cotinga	U	S,V,T	Н
Pyroderus scutatus	Red-ruffed Fruitcrow	R	S,P	L
PIPRIDAE				
Piprites chloris	Wing-barred Piprites	R	S,V,T	L
llicura militaris	Pin-tailed Manakin	С	S,V,T,M,P	L,H
Machaeropterus regulus	Eastern Striped Manakin	U	S,V,T,P	L
Manacus manacus	White-bearded Manakin	С	S,V,T,M,P	E,L
Chiroxiphia caudata	Swallow-tailed (Blue) Manakin	С	S,V,T,M,P	E,L,H
TITYRIDAE	Swallow called (Blac) Flanakii			
Oxyruncus cristatus	Sharpbill	F	S,V,T	L,H
Schiffornis virescens	Greenish Schiffornis	F	S,V,T,P	L,H
Schiffornis turdina	Thrush-like Schiffornis	R	S,V,T	L
		F	S,V,T,P	L,H
Laniisoma elegans	Elegant Mourner	R	S	L
Tityra inquisitor	Black-crowned Tityra	R	S,V,P	L
Tityra cayana	Black-tailed Tityra	R	S,V,P	L
Pachyramphus viridis	Green-backed Becard	С	S,V,T,P	L,H
Pachyramphus castaneus	Chestnut-crowned Becard	С	S,V,T,P	E,L
Pachyramphus polychopterus	White-winged Becard	C	S,V,T,P	Ĺ
Pachyramphus marginatus	Black-capped Becard	F	S,V,P	E,L
Pachyramphus validus	Crested Becard	•	=, . ;	-,-
VIREONIDAE		С	S,V,T,P	L,H
Cyclarhis gujanensis	Rufous-browed Peppershrike	C	S,V,T,M,P	L,H
Vireo olivaceus	Red-eyed Vireo	F	S,V,P	Н
Hylophilus poicilotis	Rufous-crowned Greenlet			
Hylophilus thoracicus	Lemon-chested Greenlet	С	S,V,T,P	E

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CORVIDAE	Curl appared law	R	S,V,P	W,O
Cyanocorax cristatellus HIRUNDINIDAE	Curl-crested Jay			
Pygochelidon cyanoleuca	Blue-and-white Swallow	С	S,V,P	O,E
Atticora tibialis	White-thighed Swallow	U	S,V	L
Stelgidopteryx ruficollis	Southern Rough-winged Swallow	С	S,V,P	W,O,E
Progne tapera	Brown-chested Martin	С	S,V,T,P	W,O
Progne chalybea ^m	Grey-breasted Martin	С	S,P	0
Tachycineta leucorrhoa ^m	White-rumped Swallow	F	S,V,T,P	W,O
Hirundo rustica ^m	Barn Swallow	R	S	0
TROGLODYTIDAE	Daili Swallow			
Troglodytes musculus	House Wren	С	S,V,T,P	W,O,E
Pheugopedius genibarbis	Moustached Wren	F	S,V,T,P	Е
Cantorchilus longirostris	Long-billed Wren	С	S,V,T,M,P	E,L
DONACOBIIDAE	Long billed VVI ch			
Donacobius atricapilla	Black-capped Donacobius	F	S,V,T,P	W
POLIOPTILIDAE	Statit dapped Sociationias			
Ramphocaenus melanurus	Long-billed Gnatwren	R	S,V	Н
TURDIDAE	25.18 5.11.52 5.11.21.11 5.11			
Turdus flaviþes ^m	Yellow-legged Thrush	С	S,V,T,P	L,H
Turdus rufiventris	Rufous-bellied Thrush	С	S,V,T,M,P	E,L
Turdus leucomelas	Pale-breasted Thrush	С	S,V,T,P	L,H
Turdus amaurochalinus ^m	Creamy-bellied Thrush	С	S,V,T,M,P	Е
Turdus subalaris ^m	Eastern Slaty Thrush	R	S,V,P	L
Turdus albicollis ^m	White-necked Thrush	С	S,V,T,M,P	L,H
MIMIDAE				
Mimus saturninus	Chalk-browed Mockingbird	С	S,V,T,P	W,O,E
MOTACILLIDAE	Shank Storred Fredhangen d			
Anthus lutescens	Yellowish Pipit	С	S,V,T,P	0
Anthus hellmayri	Hellmayr's Pipit	F	S,V,T,P	Н
COEREBIDAE				
Coereba flaveola	Bananaquit	С	S,V,T,P	E,L,H
THRAUPIDAE				
Saltator fuliginosus	Black-throated Grosbeak	С	S,V,T,P	L,H
Saltator maximus	Buff-throated Saltator	С	S,V,T,P	E,L
Saltator similis	Green-winged Saltator	F	S,V,T,P	L,H
Orchesticus abeillei	Brown Tanager	F	S,V,T,P	Н
Schistochlamys ruficapillus	Cinnamon Tanager	R	S,V	Н
Cissopis leverianus	Magpie Tanager	R	S,V,P	H
Nemosia pileata	Hooded Tanager	C	S,V,T,P	Ε
Orthogonys chloricterus	Olive-green Tanager	F	S,V,T,P	L,H
Pyrrhocoma ruficeps	Chestnut-headed Tanager	R	S	L,H
Trichothraupis melanops	Black-goggled Tanager	С	S,V,T,P	L,H
Tachyphonus cristatus	Flame-crested Tanager	C	S,V,T,M,P	L
Tachyphonus coronatus	Ruby-crowned Tanager	F	S,V,T,M,P	L,H
Ramphocelus bresilius	Brazilian Tanager	С	S,V,T,M,P	E,L
Thraupis sayaca	Sayaca Tanager	C	S,V,T,P	E
Thraupis cyanoptera	Azure-shouldered Tanager	F	S,V,T,P	L,H
Thraupis ornata	Golden-chevroned Tanager	С	S,V,T,P	L,H
Thraupis palmarum	Palm Tanager	С	S,V,T,P	E,L
Pipraeidea melanonota	Fawn-breasted Tanager	R	S,V,P	E,L
Tangara brasiliensis	White-bellied Tanager	С	S,V,T,P	E,L
Tangara seledon	Green-headed Tanager	C	S,T,M,P	L
Tangara cyanocephala	Red-necked Tanager	F	S,V,T,M,P	L,H
Tangara desmaresti	Brassy-breasted Tanager	F	S,V,T,P	L,H
Tangara cyanoventris	Gilt-edged Tanager	R	S	L
Tangara cayana	Burnished-buff Tanager	С	S,V,P	E
Tangara peruviana ⁺	Black-backed Tanager	R	S	E,L
Tersina viridis ^m	Swallow Tanager	F	S,V,T,P	E,L
Dacnis nigripes ^m	Black-legged Dacnis	U	S,V,T,P	E,L

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Dacnis cayana	Blue Dacnis	С	S,V,T,P	E,L,H
Cyanerpes cyaneus	Red-legged Honeycreeper	R	S,V,T,P	E,L
Hemithraupis ruficapilla	Rufous-headed Tanager	С	S,V,T,P	L,H
Hemithraupis flavicollis	Yellow-backed Tanager	С	S,V,T,P	E,L
Conirostrum speciosum	Chestnut-vented Conebill	С	S,V,T,P	E,L
EMBERIZIDAE	G.1353.135 75.1155 G5.1155.11			
Zonotrichia capensis	Rufous-collared Sparrow	R	S,V,T,P	O,E
Ammodramus humeralis	Grassland Sparrow	С	S,V,T,P	O,E
Haplospiza unicolor ^m	Uniform Finch	F	S,V,T,M,P	L,H
Sicalis flaveola	Saffron Finch	С	S,V,T,P	O,E
Emberizoides herbicola	Wedge-tailed Grass Finch	F	S,V,T,P	O,E
Volatinia jacarina	Blue-black Grassquit	С	S,V,T,P	0
Sporophila frontalis ^m	Buffy-fronted Seedeater	U	S,V,T,P	L,H
' ' '	Temminck's Seedeater	U	S,V,T	L,H
Sporophila falcirostris ^m	Lined Seedeater	С	S,V,T,P	O,E
Sporophila lineola ^m	Yellow-bellied Seedeater	U	S,P	0
Sporophila nigricollis		С	S,V,T,P	0
Sporophila caerulescens ^m	Double-collared Seedeater	F	S,V,T,P	O,E
Sporophila leucoptera	White-bellied Seedeater	R	S,V,T	W,O,E
Sporophila angolensis	Chestnut-bellied Seed Finch	U	S,V,T,P	L,H
Tiaris fuliginosus	Sooty Grassquit	R	S,V,T	H
Arremon semitorquatus	Half-collared Sparrow	F	S,V,T,P	W,O,E
Coryphospingus pileatus	Pileated Finch	R	S,V,P	0
Paroaria dominicana*	Red-cowled Cardinal		-,.,.	
CARDINALIDAE		С	S,V,T,M,P	L,H
Habia rubica	Red-crowned Ant Tanager	C	S,V,T,P	L
Caryothraustes canadensis	Yellow-green Grosbeak		5,1,1,	_
PARULIDAE	T	С	S,V,T,P	L
Parula pitiayumi	Tropical Parula	R	S,P	E
Dendroica striata ^m	Blackpoll Warbler	U	S,V,T,P	W,E
Geothlypis aequinoctialis	Masked Yellowthroat	C	S,V,T,P	L,H
Basileuterus culicivorus	Golden-crowned Warbler	F	S,V,T,P	Н
Basileuterus leucoblepharus	White-browed Warbler	R	S,V	L
Phaeothlypis rivularis	Neotropical River Warbler		-,.	_
ICTERIDAE	C	R	S,V,P	L,H
Psarocolius decumanus	Crested Oropendola	С	S,V,T,P	L,H
Cacicus haemorrhous	Red-rumped Cacique	F	S,V,T,P	W,O
Gnorimopsar chopi	Chopi Blackbird	C	S,V,T,P	W
Chrysomus ruficapillus	Chestnut-capped Blackbird	R	S,V,T,P	O,E
Molothrus oryzivorus	Giant Cowbird	R	S,V,P	0
Molothrus bonariensis	Shiny Cowbird	C	S,V,P	0
Sturnella superciliaris ^m	White-browed Blackbird		5,1,.	
FRINGILLIDAE		R	S,V,T,P	0
Sporaga magellanica ^m	Hooded Siskin	C	S,V,T,P	E
Euphonia chlorotica	Purple-throated Euphonia	C	S,V,T,M,P	E,L
Euphonia violacea	Violaceous Euphonia	Ü	S,V,T,P	H
Euphonia chalybea	Green-chinned Euphonia	R	S,V,P	L,H
Euphonia cyanocephala	Golden-rumped Euphonia	C	S,V,T,M,P	E,L
Euphonia xanthogaster	Orange-bellied Euphonia	C	S,V,T,P	L,H
Euphonia pectoralis	Chestnut-bellied Euphonia	F	S,V,T,P	E,L,H
Chlorophonia cyanea	Blue-naped Chlorophonia	•	٥, ٢, ١, ١	-,-, 1 1
ESTRILDIDAE		F	S,V,P	0
Estrilda astrild	Common Waxbill	•	٥, ۲, ۱	0
PASSERIDAE		U	S,V	0
Passer domesticus	House Sparrow	-	-, ,	•



