

RESEARCH ARTICLE

# Abacaxis River: new information on birds from the central region of the Madeira-Tapajós Interfluve, Amazonas, Brazil

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**ABSTRACT.** The Amazon Basin harbors one of the most diverse avifaunas in the world, especially in the interfluvial region between the Madeira and Tapajós rivers, with many endemic and recently described species. Even though ornithologists have visited the region since the 19<sup>th</sup> century, there is little basic information about the local birds. Herein, the ornithological results of a scientific expedition carried out in the central and upper regions of the Abacaxis River are reported. A total of 356 bird species were recorded, including two that are threatened and five that are endemic to the region. The avian community of this species-rich region is very similar to more eastern communities, but the Abacaxis River does not form a geographic barrier for birds. The rapid loss of forest in the Amazon Basin makes it necessary to generate the type of information provided in this study, to aid in conservation efforts.

**KEY WORDS.** Amazon, bird inventory, conservation, endangered species, migratory species.

## INTRODUCTION

The Amazon Basin is the richest and most biodiverse region of the world, and new species are being discovered and described every year (Mittermeier et al. 2003, Vale et al. 2008, Whitney and Conh-Haft 2013). The biome is home to 1,300 to 1,800 bird species, with the avifauna of the Madeira-Tapajós interfluve being among its most diversified and rich in endemic species (Cracraft 1985, Rego et al. 2023). As typical for the Amazon, ornithological exploration took place along the margins of larger rivers, while intervening areas remained largely unexplored. The first bird specimens from the Tapajós River were collected in the early 19<sup>th</sup> century by F. Sieber, who was sent to Brazil by Count J.C. Hoffmannsegg, some of which still exist at the Museum für Naturkunde, Berlin. A few years later, localities along the Tapajós and Madeira rivers, and some of their tributaries, were explored by G.H. von Langsdorff and J. Natterer, respectively, while J.B. Spix was the only early naturalist to collect along both rivers. In the middle 19<sup>th</sup> Century, A.R. Wallace and H.W. Bates explored Santarém, at the mouth of Tapajós (Pinto 1979, Sick 1997).

Some minor collections were made along the Tapajós and Madeira rivers during the end of the 19<sup>th</sup> century, but especially at Santarém due to the ease of access for foreigners. Knowledge of the avifauna of the Madeira-Tapajós interfluve increased significantly after the arrival of E. Snethlage, at the beginning of 20<sup>th</sup> century, whose scientific collections of birds of the Tapajós River provided the first specimens to be housed in Brazilian museums. The middle section of the interfluve was visited in 1914 by the Roosevelt-Rondon scientific expedition, at the Dúvidas River, which subsequently became known as the Roosevelt River (Vasconcelos et al. 2016). Knowledge of the avifauna of the interfluve has increased greatly since, benefitting from the outstanding collections of A.M. Olalla and others (see Pinto 1938, 1944, Lanyon et al. 1990, Oren and Parker III 1997, Aleixo and Poletto 2007, Cohn-Haft et al. 2007, Whittaker 2009, Dantas et al. 2011, Guilherme 2014, Costa et al. 2017a, Pulido-Santacruz et al. 2018, Maximiano et al. 2020, Valério et al. 2020, Lopes et al. 2021, Del-Rio et al. 2021, to cite a few).

Despite the documentation of a diverse avifauna, vast portions of the interfluve have never been explored, particularly in its central region, which remains virtually

unknown. The southern portion of the entire interfluvium is severely threatened by deforestation, with the region of Alta Floresta representing the best example of how human activities can rapidly alter the landscape. Despite the presence of established conservation units, several vectors of development continuously pressure the remaining forests of the interfluvium. The present work provides the results of an expedition to the Abacaxis River, in one of the poorest known areas of the Madeira-Tapajós interfluvium.

## MATERIAL AND METHODS

### Study area

The Abacaxis River is located in the Madeira-Tapajós Interfluvium, on the south bank of the Amazon River, state of Amazonas, Brazil. It runs through the municipalities of Borba, Maués, Nova Olinda do Norte and Apuí, and is a tributary of the Paran do Urari River, which subsequently feeds into the right bank of the Amazon River (Fig. 1) via its connection with the Paran dos Ramos. The climate of the region is humid tropical (Kppen Am type), with an average annual temperature between 26 and 27 °C, relative air humidity around 86% and annual precipitation varying between 1,287 and 2,538 mm. It is strongly seasonal, with a rainy season from December to July, during which monthly average rainfall varies between 170 and 300 mm, and a dry season from August to November, with monthly averages below 60 mm. The region has a variety of forest physiognomies, with a predominance of Dense Tropical Forest, in addition to patches of natural fields (cerrado, savannah and meadow, with sandy soil), igap, floodplain and open forest with palm trees. The rivers of the region are classified as clear water rivers, with their main tributaries draining the Brazilian shield. The relief is predominantly formed by the Amazonian plain and includes seasonally flooded areas and some isolated rugged areas. There are also areas of lowered plateaus in the Amazon and Serras and chapadas with higher and rugged relief, which do not experience flooding (Py-Daniel et al. 2007, Brocardo and Giacomin 2021).

Birds were sampled during January, 2007 at five sites in the middle and upper parts of the Abacaxis River, as described below:

1. Igarap-Au. Right bank of the Abacaxis River, Nova Olinda do Norte Municipality (4°20'S; 58°38'W). Terra firme forest with emergent trees reaching ca. 50 m in height. The banks of the Igarap-Au and Abacaxis rivers have extensive areas of alluvial forest (vrzea/igap forest), where the water level varies throughout the year (Fig. 2A). Birds were mist-netted between 6–11 January, with additional collecting on 12 January.
2. Maruim. Left bank of the Abacaxis River, Borba Municipality (4°18'S; 58°38'W). Terra firme forest with emergent trees reaching ca. 35 m in height and abundant palm trees, *Attalea speciosa*. The margins of the Abacaxis River have small portions of vrzea/igap forest. The present study observed local deforestation for subsistence agriculture (Fig. 2B). Birds were mist-netted between 10–12 January, with additional collecting between 10 and 26 January.
3. Above Maruim. Both banks of the Abacaxis River, Borba and Nova Olinda do Norte municipalities (4°30'21"S; 58°27'17"W). A mosaic of habitats, including terra firme forest and vrzea/igap forest (Fig. 2C). Fieldwork took place on 15 January.
4. Paca-Areal. Right bank of the Abacaxis River, Maus Municipality (4°35'S; 58°13'W). The area borders the Pau-Rosa National Forest (988,187 ha), with the Abacaxis River as its southwestern limit (Fig. 1). A mosaic of habitats, including campina/campinarana with a sandy shore having low and somewhat open vegetation (up to 5 m in height) and a few emergent trees along the river (Fig. 2D), which is followed by a more closed and taller forest (up to 15 m in height). Dense rainforest dominates about 1 km from the river, with emergent trees reaching ca. 50 m in height. Birds were mist-netted between 19–22 January, and shotgun collection occurred during 16–18 January.
5. Camaro. Left bank of the Abacaxis River, Borba Municipality (4°16'S; 58°39'W). Terra firme forest with dense rainforest and emergent trees reaching ca. 35 m in height, many palm trees, and some deforestation for subsistence agriculture. Fieldwork took place only on 25 January.

### Bird Sampling

Fieldwork was carried out over 20 days (6–26 January 2007) by Fabio Schunck and Lus Fbio Silveira. Birds were collected by mist-netting and with shotguns. All specimens were field prepared and deposited at the Museu de Zoologia da Universidade de So Paulo (MZUSP). Mist nets (21, 12 X 2 m, 30 mm mesh) were open from 05:30 to 17:00 h, with a total mist-net sampling effort of 11 days or 2,090 mist net hours. Birds were observed with 10 X 40 and 10 X 50 binoculars. Vocalizations were recorded with a Sony TCM 5000-EV using Sennheiser ME 66 and Mineroff shotgun microphones. Recordings are stored at the Sound Archives of the Bird Section of the MZUSP, personal archive of FS and

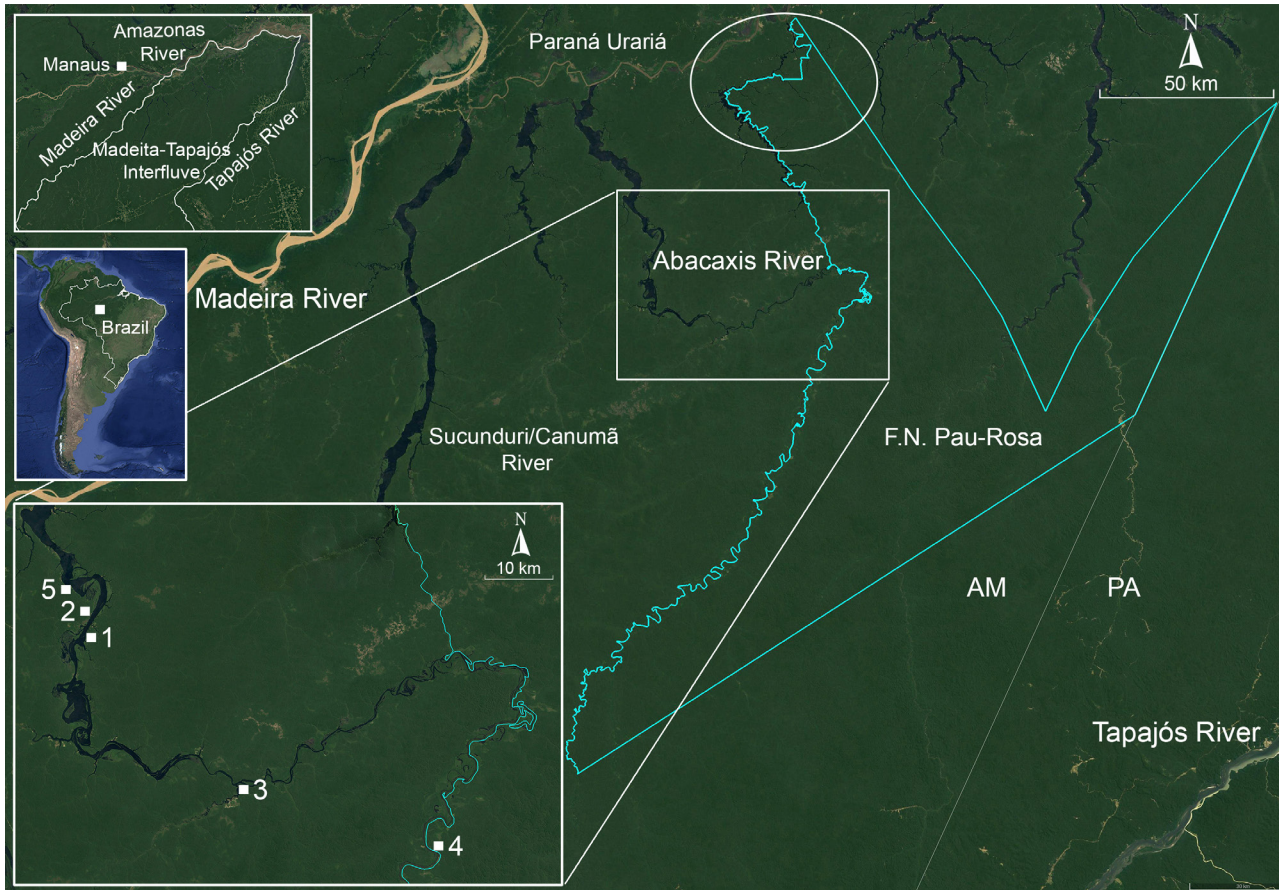


Figure 1. Study area (inset, white square): 1) Igarapé-Açu, 2) Maruim, 3) Above Maruim, 4) Paca – Areal, 5) Camarão. The area enclosed within the blue line is the Pau-Rosa National Forest (the winding blue line [zigzags] is where it is bordered by the Abacaxis River). The white ellipse indicates the region studied by Dantas et al. (2011). The white rectangle, enlarged in the lower left, details the study area. Source: Google Earth (Landsat/Copernicus 2015).

in Xeno-Canto (<https://www.xeno-canto.org/>, acronym XC, followed by the catalogue number). Photographs of some individual birds are available in the personal collections of the researchers (provided upon request). Nomenclature follows the Brazilian Ornithological Records Committee (Pacheco et al. 2021).

## RESULTS

We detected 356 species of birds, distributed in 61 families and 24 orders, of which 172 were documented by specimens and/or sound recordings (Appendices 1 and 2). The nine families with the greatest number of species were Thamnophilidae (with 39 species), Tyrannidae (23), Thraupidae (23), Psittacidae (19), Dendrocolaptidae (17), Rhynchocyclidae (17), Accipitridae (14), Picidae (12) and

Bucconidae (10). Most species were found in terra firme forest (251 species), followed by várzea/igapó forest (122) and campina/campinarana (26).

Five species and one subspecies are endemic to the Madeira-Tapajós interfluve according to Sick (1997) and Rego et al. (2023): Brown-chested Barbet *Capito brunneipectus* Chapman, 1921, Pale-faced Bare-eye *Phlegopsis borbae* Hellmayr, 1907, Harlequin Antbird *Rhegmatorhina berlepschi* (Sneath, 1907), Hoffmann's Woodcreeper *Dendrocolaptes hoffmannsi* Hellmayr, 1909, Sucunduri Flycatcher *Tolmomyias sucunduri* Whitney, Schunck, Rêgo & Silveira, 2013 (considered a species by Pacheco et al. 2021 and subspecies by Rego et al. 2023) and Buff-cheeked Tody-Flycatcher *Poecilatriccus senex* (Pelzeln, 1868). Two species, the White-crested Guan *Penelope pileata* Wagler, 1830, and the Golden Parakeet *Guaruba guarouba* (Gmelin, 1788), are considered as Vulner-



Figure 2. Examples of Abacaxis River habitats: (A) Várzea forest – Igarapé-Açu; (B) Terra firme – Maruim; (C) Várzea forest –Above Maruim; (D) Campinarana – Paca-Areal. Photos: Fabio Schunck.

able to extinction (MMA 2022, IUCN 2023). Five species are migratory: the Osprey *Pandion haliaetus* (Linnaeus, 1758), the Swallow-tailed Kite *Elanoides forficatus* (Linnaeus, 1758), the Plumbeous Kite *Ictinia plumbea* (Gmelin, 1788), the Red-eyed Vireo *Vireo olivaceus* (Linnaeus, 1766), and the Purple Martin *Progne subis* (Linnaeus, 1758) (Somenzari et al. 2018). A total of 254 species were registered in Paca-Areal, 232 in Igarapé-Açu, 200 in Maruim, 103 above Maruim and 18 in Camarão (Fig. 1, Appendix 1).

The taxa White-eyed Stipplethroat *Epinecrophylla leucophthalma phaeonota* (Todd, 1927), Black-faced Antbird *Myrmoborus myotherinus ochrolaemus* (Hellmayr, 1906), Xingu Scale-backed Antbird *Willisornis vidua nigrigula* (Snethlage, 1914) and *Rhegmatorhina berlepschi* were collected on both banks of the Abacaxis River, and the taxa Bar-breasted Piculet *Picumnus aurifrons borbae* Pelzeln, 1870, Spix's War-

bling-Antbird *Hypocnemis striata implicata* Zimmer, 1932 and Ringed Antpiper *Corythopis torquatus anthoides* (Pucheran, 1855) were collected on only one margin and detected (visual and auditory) on both margins (Appendix 1).

#### Noteworthy records

White-crested Guan, *P. pileata*. Endemic to Brazil, the population of this species has experienced a sharp decline throughout its distribution, which extends from the lower Madeira River to the Xingu River, also occurring in the states of Maranhão and Tocantins (Pinto 1938, Sick 1997, Del Hoyo and Kirwan 2020). Not observed in the Pau-Rosa National Forest (PRNF) by Dantas et al. (2011) but was cited for the Tapajós-Arapiuns Extractive Reserve (TAER) along the lower Tapajós river by Lopes et al. (2021). The species was recorded three times in terra firme forest of Paca-Areal,

where the Abacaxis River marks the southwestern boundary of the forest. Individuals were observed in pairs or in small groups (less than six individuals), suggesting that the species is rather rare, even in pristine forests, with few signs of hunting. Deforestation is occurring, at its fastest rate in the Amazon Basin, in a large portion of the distribution of this species, and the combination of habitat loss and relentless hunting is responsible for the inclusion of this guan in the category of Vulnerable of both the IUCN and the Brazil Red List (MMA 2022, IUCN 2023).

Rusty-margined Guan, *Penelope superciliaris pseudonyma* Neumann, 1933. Endemic to Brazil and characterized by bright-blue facial skin (Vargas et al. 2017). Not observed in PRNF by Dantas et al. (2011) but cited for TAER by Lopes et al. (2021). A single pair was observed at Paca-Areal, in low vegetation along the river shore. In contrast to *P. s. pseudonyma* and the previous species, Spix's Guan *P. jacquacu* Spix, 1825, was common with good numbers at most of the sampling sites. The *P. superciliaris* group includes at least three valid species and is currently under a taxonomic revision (Vargas et al. unpublished data)

Rufous Potoo *Phyllaemulor bracteatus* (Gould, 1846). Widespread in Amazon and Orinoco basins, but often unrecorded, this species has recently received great attention, with a substantial increase of natural history and systematics information (e.g., Ingels et al. 2008, Costa et al. 2017b, Cohn-Haft and Kirwan 2020). It was not previously reported for the Madeira-Tapajós interfluvium by Oren and Parker III (1997), Dantas et al. (2011) and Guilherme (2014) but cited for TAER by Lopes et al. (2021). This potoo was found singing at dawn at two of the study sites where palms were common in the understory of terra firme forest. One bird was tape-recorded (XC 584128) at Maruim.

Fiery-tailed Awlbill *Avocettula recurvirostris* (Swainson, 1822). This poorly known hummingbird is often reported from new locations, including in the Cerrado and the Amazon (Pinheiro et al. 2008, Grantsau 2010). Not detected in the interfluvium by Oren and Parker III (1997), Whittaker (2009), Dantas et al. (2011) and Guilherme (2014) but recorded by Cohn-Haft (2004) in Novo Aripuanã Municipality and Lopes et al. (2021) for TAER. This awlbill was found in Camarão, where a male was collected (MZUSP 76751) in an open subsistence agricultural area with some dense shrubs and near terra firme forest.

Brown-chested Barbet *C. brunneipectus*. Endemic to a narrow area between the Madeira and Tapajós rivers, where it is rare (e.g., Oren and Parker III 1997, Dantas et al. 2011, Lopes et al. 2021). There is little natural history

information on the species (Short et al. 2021). It was found in mixed-species flocks on two consecutive days in terra firme forest at Paca-Areal.

Golden Parakeet *G. guarouba*. Another endemic to Brazil and Vulnerable species once common at Belem Endemism Centre, with scattered records eastward of the Madeira River (Laranjeiras and Cohn-Haft 2009) and previously reported alongside the Tapajós River (Oren and Parker III 1997, Laranjeiras and Cohn-Haft 2009, Guilherme 2014). This species was detected almost every day at all sites, occurring in groups of up to six individuals. No birds were found in captivity in the communities of the region and there were no signs of poaching. A typical terra firme forest species, the abundance at the Abacaxis River suggests that the Golden Parakeet is safe in the region.

Brown-throated Parakeet *Eupsittula pertinax paraensis* (Sick, 1959). Described from campinaranas on the right margin of the Tapajós River (Sick 1959, 1963) but later recorded on both sides of the Madeira River (Cohn-Haft et al. 2007) and in PRNF (Dantas et al. 2011) and eastwards to the Tapajós-Xingu interfluvium, as in Serra do Cachimbo. This parakeet was found at four study sites, in groups of 2–20 individuals. This is a rather distinct subspecies of the *E. pertinax* species complex, the only one occurring south of Amazon, and is very rare in scientific collections. The taxonomic status of the species must be more properly assessed though the collection of more specimens, especially from the right bank of Madeira River. As true with any Brazilian *Eupsittula*, the species is common in open areas, breeding on arboreal termitaria, and not very sensitive to modified environments.

Bald Parrot *Pyrilia aurantiocephala* (Gaban-Lima, Raposo & Höfling, 2002). A Brazilian endemic found from the lower Madeira River (e.g., Dantas et al. 2011) to the Xingu River (Gaban-Lima et al. 2002, Fjeldså and Boesman 2020). It was easily found at the study sites, where it was observed daily in small flocks of 3–8 individuals, always in tall, pristine terra firme forest. It was especially common at Maruim and Pac-Areal (MZUSP 76746-48), eating small fruits, almost motionless and silent. Its behavior and flying shape are extremely similar to its sister species *P. vulturina* (Kuhl, 1820), which occurs eastwards.

Harlequin Antbird *R. berlepschi*, and Pale-faced Bare-eye, *P. borbae*. Endemic, common, and typical of terra firme forest and widespread through Madeira-Tapajós interfluvium (e.g., Oren and Parker III 1997, Dantas et al. 2011, Guilherme 2014, Whittaker 2009, Lopes et al. 2021). The Harlequin Antbird was found at Maruim (MZUSP 76892-95), Paca-Areal (MZUSP 76896-98), and Igarapé-Açu (MZUSP 76899-901).

The bare-eye was found at Paca-Areal (MZUSP 76879-80) and Igarapé-Açú (MZUSP 76881). Both species were in obligate ant-following mixed-species flocks, along with the abundant Black-spotted Bare-eye *Phlegopsis nigromaculata* (d'Orbigny & Lafresnaye, 1837).

Sucunduri Flycatcher *T. sucunduri*. Described in 2013 and endemic to the region (Whitney et al. 2013). Not detected in PRNF by Dantas et al. (2011) but cited for TAER by Lopes et al. (2021). Common in all mixed-species flocks of terra firme forest. Tape-recorded at Paca-Areal (XC 584127).

Buff-cheeked Tody-Flycatcher *P. senex*. Once one of the rarest and most poorly-known species in the Neotropics, and apparently endemic to seasonally flooded habitats in the Madeira-Tapajós interfluvium (Whittaker 2009, Walther and Boesman 2020). Not detected in PRNF by Dantas et al. (2011) but cited for TAER by Lopes et al. (2021). This tody-flycatcher was extremely common at Igarapé-Açú (MZUSP 77057-58) and Paca-Areal (MZUSP 77059). It was found in dense várzea/igapó forest (XC 584124), together with Zimmer's Tody-Tyrant *Hemitriccus minimus* (Todd, 1925) (see Whittaker 2009), on the right margin of the Abacaxis River (MZUSP 77032, XC 584126).

## DISCUSSION

During this expedition, we were able to identify 356 bird species in a pristine area of the Brazilian Amazon, helping to fill an important gap in knowledge of the Madeira-Tapajós interfluvium. Geographically, the Abacaxis River is closer to the Madeira River than to the Tapajós River, yet the community of birds found is similar to that on the western margin of Tapajós, such as in Amazônia National Park (Oren and Parker III 1997), or other sites throughout the interfluvium such as the Amaná National Forest (Guilherme 2014), and Pau-Rosa National Forest (Dantas et al. 2011).

Based on the detection of seven taxa that have geographic distribution limits within the Madeira-Tapajós interfluvium according to Rego et al. (2023) on both banks of the Abacaxis River, four of which were collected (*Epinecrophylla leucophthalma phaenota*, *Myrmoborus myotherinus ochrolaemus*, *Willisornis vidua nigrigula* and *Rhegmatorhina berlepschi*) and three collected on only one bank and detected visually and vocally on both banks (*Picumnus aurifrons borbae*, *Hypocnemis striata implicata* and *Corythopsis torquatus anthoides*) we can suggest that this river is not a geographic barrier for them, otherwise we would have distinct taxa on each bank. These subspecies, as well as others that were recorded in the field (e.g., *Penelope superciliaris pseudonyma*,

Long-winged Antwren *Myrmotherula longipennis ochrogyna* Todd, 1927), after taxonomic revisions, may form this group with occurrence restricted to this region of the Amazon.

With the data presented herein, Paca – Areal, part of the Pau-Rosa National Forest, now has 337 species of birds, adding 69 species to the previous count made by Dantas et al. (2011). In addition, this also increases the geographic distribution for the mid-southern regions of the reserve to 254 species. Increased diversity in most regions of the Amazon is expected as studies gather more data (De Luca et al. 2009, Dantas et al. 2011). Additionally, our observations demonstrate that the Abacaxis River is not a barrier for dispersal of birds in this region, in contrast to larger rivers, such as the Madeira and Tapajós, and the Roosevelt/Aripuanã, Sucunduri and Jiparaná Rivers (Whitney and Conh-Haft 2013, Whitney et al. 2013).

Of the two endangered species in the region (*P. pileata*, *G. guarouba*), the White-crested Guan seems at much greater risk due to hunting (Sick 1997, IUCN 2023). Many illegal activities occur along the Abacaxis River, including fishing and logging, among others, and so all animals the size of this guan are hunted by those engaged in other illegal activities as well as by local residents. All four cracid (guans and relatives) species detected in the field were recorded in Paca-Areal, probably because it is the most isolated site and has less water traffic. Nonetheless, despite the isolation, only a few sightings were made and only two individuals were ever seen together. It should be noted that Maruim, Igarapé-Açú and Camarão have communities nearby and so hunting is likely to be more of an issue. Furthermore, a few species other than the guans also tend to be hunted in this region, including *Tinamus tao* Temminck, 1815 and *Ara macao* (Linnaeus, 1758) (Guilherme 2014). Hunting is a perpetual threat to these birds where even subsistence hunting can have a large impact on populations. Thus, the question of hunting, wildlife management, and conservation of these important Amazonian species requires continued analysis and discussion (Thiollay 2005, Roper 2006).

Most (243) of the species encountered in the present study were found in terra firme forest, which is also a common formation in the mid and upper Abacaxis River basin and found at all the study areas. The 119 species that seem to be associated with seasonally flooded habitats (várzea and igapó) were more common at Igarapé-Açú, which has a large area that is underwater during the rainy season. Most species typical of campina (25) were found at Paca-Areal, but due to the logistical limitations of dividing effort among the different habitat types, greater effort could not be expended in this habitat type. Nonetheless, it was possible to add

several important species to the previous list of the regional campina of the Pau-Rosa National Forest. (Dantas et al. 2011). Those species found in more open forests, typically on poor, sandy soils (campinarana), remain poorly studied in the Amazon. While not extremely large in extent, campinarana habitat is widespread in the Madeira-Tapajós interfluvium, as well as elsewhere in the Amazon Basin, with many associated species, and so it should receive greater attention (Silva et al. 1997, Sanaiotti and Cintra 2001, Borges 2004, Aleixo and Poletto 2007, Guilherme 2014).

The Abacaxis River has long been understudied with respect to birds, as well as other taxonomic groups. Nonetheless, little by little information is accumulating that reinforces the importance of the region due to its diversity and because of threats to conservation. The priority for ornithological studies of the Abacaxis River is the southern region, around the Transamazon Highway (BR-230), and its headwaters. Continued and new studies are required throughout the Madeira-Tapajós interfluvium, mainly in the southern region, where the headwaters of the main rivers are located (including the Abacaxis River). This is a contact region for the avifauna of the Madeira and Tapajós rivers, where recent research has revealed unique biogeographic patterns and a great mix of avifauna (Whitney et al. 2013), with hybrid populations of different bird species (Pulido-Santacruz et al. 2018, Del-Rio et al. 2021). Thus, continued research is immediately required before human actions spoil one of the richest avifaunas in the world.

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Appendix 1. Bird species recorded in this study on the Abacaxis River. Abbreviations following species names indicate threat level (VU – Vulnerable, MMA 2022; IUCN 2023), status (MT – migratory, Somenzari et al. 2018) and endemic taxa of the Madeira-Tapajós interfluve (En – Rego et al. 2023). The column Type of evidence refers to the level of documentation for each species: C – specimen collected, V – visual (sighting only), A – auditory (without recording), R – auditory (with recording). Habitat: tf - terra firme forest, ca – capoeira (second-growth with open areas), cm – campina, va – várzea forest and igapó, ri - riparian. Study areas: 1. Igarapé-Açu, 2. Maruim, 3. Above Maruim, 4. Paca-Areal, 5. Camarão. For each study site, X indicates species presence and C indicates collected material deposited at MZUSP.

Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<b>Tinamiformes</b>								
<b>Tinamidae (8)</b>								
<i>Tinamus tao</i>	Gray Tinamou	A	tf		X	X	X	
<i>Tinamus major</i>	Great Tinamou	R	tf, va	X	X	X	X	
<i>Tinamus guttatus</i>	White-throated Tinamou	A	tf	X	X		X	
<i>Crypturellus cinereus</i>	Cinereous Tinamou	A	tf, va		X		X	
<i>Crypturellus soui</i>	Little Tinamou	A	tf, va	X		X	X	
<i>Crypturellus undulatus</i>	Undulated Tinamou	R	ca, cm				X	
<i>Crypturellus strigulosus</i>	Brazilian Tinamou	A	tf	X			X	
<i>Crypturellus variegatus</i>	Variiegated Tinamou	R	tf	X	X	X	X	
<b>Anseriformes</b>								
<b>Anatidae (1)</b>								
<i>Cairina moschata</i>	Muscovy Duck	V	ri	X	X	X	X	
<b>Galliformes</b>								
<b>Cracidae (4)</b>								
<i>Penelope superciliaris</i>	Rusty-margined Guan	V	tf, cm, va				X	
<i>Penelope jacquacu</i>	Spix's Guan	V	tf, va		X	X	X	
<i>Penelope pileata</i> <sup>VU</sup>	White-crested Guan	V	tf, va				X	
<i>Pauxi tuberosa</i>	Razor-billed Curassow	V	tf, va				X	
<b>Odontophoridae (1)</b>								
<i>Odontophorus gujanensis</i>	Marbled Wood-Quail	A	tf				X	
<b>Columbiformes</b>								
<b>Columbidae (9)</b>								
<i>Patagioenas speciosa</i>	Scaled Pigeon	A, V	tf	X	X	X	X	
<i>Patagioenas cayennensis</i>	Pale-vented Pigeon	A, V	tf	X	X	X	X	
<i>Patagioenas plumbea</i>	Plumbeous Pigeon	C, R	tf	C	C	X	X	
<i>Patagioenas subvinacea</i>	Ruddy Pigeon	C	tf	X	C		C	
<i>Geotrygon montana</i>	Ruddy Quail-Dove	C	tf		C	X	C	
<i>Leptotila verreauxi</i>	White-tipped Dove	R	tf, ca					X
<i>Leptotila rufaxilla</i>	Gray-fronted Dove	R	tf		X		X	
<i>Columbina passerina</i>	Common Ground-Dove	V	ca		X			
<i>Columbina talpacoti</i>	Ruddy Ground-Dove	V	ca	X				
<b>Cuculiformes</b>								
<b>Cuculidae (5)</b>								
<i>Crotophaga major</i>	Greater Ani	V	ri				X	
<i>Crotophaga ani</i>	Smooth-billed Ani	V	ca		X	X	X	
<i>Coccyzua minuta</i>	Little Cuckoo	V	ca, ri				X	
<i>Piaya cayana</i>	Squirrel Cuckoo	V	tf, va, ca	X	X	X	X	
<i>Piaya melanogaster</i>	Black-bellied Cuckoo	V	tf	X	X		X	
<b>Nyctibiiformes</b>								
<b>Nyctibiidae (2)</b>								
<i>Phyllaemulor bracteatus</i>	Rufous Potoo	R	tf		X	X		
<i>Nyctibius griseus</i>	Common Potoo	A	tf, ca, ri	X			X	

Continues

Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<b>Caprimulgiformes</b>								
<b>Caprimulgidae (5)</b>								
<i>Antrostomus rufus</i>	Rufous Nightjar	A	va, ca					X
<i>Lurocalis semitorquatus</i>	Short-tailed Nighthawk	A, V	tf	X				
<i>Nyctiprogne leucopyga</i>	Band-tailed Nighthawk	R	ri	X	X	X	X	
<i>Nyctidromus nigrescens</i>	Blackish Nightjar	A, V	ca, cm					X
<i>Nyctidromus albicollis</i>	Common Pauraque	C	ca, cm	X	X			C
<b>Apodiformes</b>								
<b>Apodidae (3)</b>								
<i>Chaetura spinicaudus</i>	Band-rumped Swift	V	tf					X
<i>Chaetura brachyura</i>	Short-tailed Swift	V	tf, va					X
<i>Tachornis squamata</i>	Fork-tailed Palm-Swift	V	va, ca					X
<b>Trochilidae (9)</b>								
<i>Glaucis hirsutus</i>	Rufous-breasted Hermit	V	tf	X				
<i>Phaethornis ruber</i>	Reddish Hermit	V	tf, ca			X	X	
<i>Phaethornis philippii</i>	Needle-billed Hermit	C	tf	C	C	X	X	
<i>Phaethornis superciliosus</i>	Long-tailed Hermit	C	tf, va	C	C			C
<i>Heliodytes auritus</i>	Black-eared Fairy	V	tf, va	X				X
<i>Polytmus guainumbi</i>	White-tailed Goldthroat	V	ca, cm					X
<i>Avocettula recurvirostris</i>	Fiery-tailed Awlbill	C	va, ca					C
<i>Campylopterus largipennis</i>	Gray-breasted Sabrewing	C	tf, va		C	X	X	
<i>Thalurania furcata</i>	Fork-tailed Woodnymph	C	tf, va	C	X			C
<b>Opisthocomiformes</b>								
<b>Opisthocomidae (1)</b>								
<i>Opisthocomus hoazin</i>	Hoatzin	V	va, ri					X
<b>Gruiformes</b>								
<b>Psophiidae (1)</b>								
<i>Psophia viridis</i>	Green-winged Trumpeter	C, R	tf		X			C
<b>Rallidae (2)</b>								
<i>Laterallus viridis</i>	Russet-crowned Crane	A	ca					X
<i>Aramides cajaneus</i>	Gray-necked Wood-Rail	C	ca, va, ri					C
<b>Charadriiformes</b>								
<b>Jacanidae (01)</b>								
<i>Jacana jacana</i>	Wattled Jacana	V	ri					X
<b>Sternidae (2)</b>								
<i>Sternula superciliaris</i>	Yellow-billed Tern	V	ri	X				
<i>Phaetusa simplex</i>	Large-billed Tern	V	ri	X	X			
<b>Eurypygiiformes</b>								
<b>Eurypygidae (1)</b>								
<i>Eurypyga helias</i>	Sunbittern	V	va, ri					X
<b>Suliformes</b>								
<b>Anhingidae (1)</b>								
<i>Anhinga anhinga</i>	Anhinga	V	ri	X	X	X	X	
<b>Phalacrocoracidae (1)</b>								
<i>Nannopterum brasilianus</i>	Neotropic Cormorant	V	ri	X	X	X	X	
<b>Pelecaniformes</b>								
<b>Ardeidae (9)</b>								
<i>Tigrisoma lineatum</i>	Rufescent Tiger-Heron	V	ri	X				
<i>Cochlearius cochlearius</i>	Boat-billed Heron	C	va, ri		C			X
<i>Zibralus undulatus</i>	Zigzag Heron	A, V	va	X				

Continues



Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<i>Butorides striata</i>	Striated Heron	C	ri	C				
<i>Bubulcus ibis</i>	Cattle Egret	V	ca	X				
<i>Ardea cocoi</i>	Cocoi Heron	V	ri	X		X	X	
<i>Ardea alba</i>	Great Egret	V	ri	X				
<i>Pilherodius pileatus</i>	Capped Heron	V	ca, ri			X		
<i>Egretta thula</i>	Snowy Egret	V	ri	X				
<b>Threskiornithidae (1)</b>								
<i>Mesembrinibis cayennensis</i>	Green Ibis	R	tf, va, ri	X		X	X	
<b>Cathartiformes</b>								
<b>Cathartidae (5)</b>								
<i>Sarcoramphus papa</i>	King Vulture	V	tf					X
<i>Coragyps atratus</i>	Black Vulture	V	ca, va	X	X	X	X	
<i>Cathartes aura</i>	Turkey Vulture	C	tf, ca, va	C	X	X	X	
<i>Cathartes burrovianus</i>	Lesser Yellow-headed Vulture	V	ca	X				
<i>Cathartes melambrotus</i>	Greater Yellow-headed Vulture	V	tf, va	X	X	X		
<b>Accipitriformes</b>								
<b>Pandionidae (1)</b>								
<i>Pandion haliaetus</i> <sup>MT</sup>	Osprey	V	ri	X			X	
<b>Accipitridae (14)</b>								
<i>Leptodon cayanensis</i>	Gray-headed Kite	V	tf, va	X			X	
<i>Elanoides forficatus</i> <sup>MT</sup>	Swallow-tailed Kite	V	tf, ca	X				
<i>Harpia harpyja</i>	Harpy Eagle	A, V	tf					X
<i>Spizaetus ornatus</i>	Ornate Hawk-Eagle	R	tf	X			X	
<i>Busarellus nigricollis</i>	Black-collared Hawk	V	va, ri	X				
<i>Harpagus bidentatus</i>	Double-toothed Kite	V	tf				X	
<i>Ictinia plumbea</i> <sup>MT</sup>	Plumbeous Kite	V	tf, ca	X	X	X	X	
<i>Accipiter poliogaster</i>	Gray-bellied Hawk	V	tf		X			
<i>Geranospiza caerulescens</i>	Crane Hawk	C	va, ri	C		X		
<i>Buteogallus schistaceus</i>	Slate-colored Hawk	V	va, ri	X				
<i>Heterospizias meridionalis</i>	Savanna Hawk	V	ca, ri	X				
<i>Rupornis magnirostris</i>	Roadside Hawk	V	ca	X			X	
<i>Leucopternis kuhli</i>	White-browed Hawk	V	tf	X	X			
<i>Buteo nitidus</i>	Gray-lined Hawk	V	ca		X			
<b>Strigiformes</b>								
<b>Strigidae (3)</b>								
<i>Megascops choliba</i>	Tropical Screech-Owl	A	ca	X	X	X	X	
<i>Megascops usta</i>	Austral Screech-Owl	R	tf	X		X	X	
<i>Pulsatrix perspicillata</i>	Spectacled Owl	R	tf	X	X	X	X	
<b>Trogoniformes</b>								
<b>Trogonidae (7)</b>								
<i>Pharomachrus pavoninus</i>	Pavonine Quetzal	A, V	tf		X			
<i>Trogon melanurus</i>	Black-tailed Trogon	C, R	tf, va	C	X	X	X	
<i>Trogon viridis</i>	Green-backed Trogon	C, R	tf, va, ca	C	X	X	C	
<i>Trogon violaceus</i>	Guianan Trogon	R	tf		X	X	X	
<i>Trogon curucui</i>	Blue-crowned Trogon	C	tf, va	C	X		X	
<i>Trogon rufus</i>	Black-throated Trogon	C, R	tf		X	X	C	
<i>Trogon collaris</i>	Collared Trogon	R	tf	X	X		X	
<b>Coraciiformes</b>								
<b>Momotidae (2)</b>								
<i>Baryphthengus martii</i>	Rufous Motmot	C, R	tf	C	C		X	
<i>Momotus momota</i>	Amazonian Motmot	A	tf, va	X	X		X	

Continues

Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<b>Alcedinidae (5)</b>								
<i>Megaceryle torquata</i>	Ringed Kingfisher	V	ri	X	X	X	X	
<i>Chloroceryle amazona</i>	Amazon Kingfisher	V	ri	X	X	X	X	
<i>Chloroceryle aenea</i>	American Pygmy Kingfisher	C	tf	C	X			
<i>Chloroceryle americana</i>	Green Kingfisher	V	ri	X	X	X	X	
<i>Chloroceryle inda</i>	Green-and-rufous Kingfisher	C	tf	X	C	X	X	
<b>Galbuliformes</b>								
<b>Galbulidae (4)</b>								
<i>Galbula cyanicollis</i>	Blue-cheeked Jacamar	C, R	tf	X				C
<i>Galbula leucogastra</i>	Bronzy Jacamar	C	tf, ca	C				X
<i>Galbula dea</i>	Paradise Jacamar	A, V	tf, ca, va	X				X
<i>Jacamerops aureus</i>	Great Jacamar	C, R	tf		C	X	X	
<b>Bucconidae (10)</b>								
<i>Chelidoptera tenebrosa</i>	Swallow-winged Puffbird	C	tf, ca	X	X			C
<i>Monasa morphoeus</i>	White-fronted Nunbird	C	tf	C	X			C
<i>Monasa nigrifrons</i>	Black-fronted Nunbird	C, R	tf, va, ca	C	X	X	X	
<i>Nonnula rubecula</i>	Rusty-breasted Nunlet	C	tf	C				C
<i>Malacoptila rufa</i>	Rufous-necked Puffbird	C	tf	C	C	X	X	
<i>Notharchus tectus</i>	Pied Puffbird	A, V	tf, ca					X
<i>Notharchus macrorhynchos</i>	Guianan Puffbird	A, V	tf, ca, va					X
<i>Cyphos macrodactylus</i>	Chestnut-capped Puffbird	A, V	tf, va	X				
<i>Tamatia tamatia</i>	Spotted Puffbird	A, V	va	X				
<i>Bucco capensis</i>	Collared Puffbird	C	tf					C
<b>Piciformes</b>								
<b>Capitonidae (1)</b>								
<i>Capito brunneipectus</i> <sup>En</sup>	Brown-chested Barbet	A, V	tf					X
<b>Ramphastidae (04)</b>								
<i>Ramphastos tucanus</i>	White-throated Toucan	C, R	tf, va	X	C	X	X	X
<i>Ramphastos vitellinus</i>	Channel-billed Toucan	R	tf, va	X	X	X	X	
<i>Selenidera gouldii</i>	Gould's Toucanet	A, V	tf		X			
<i>Pteroglossus aracari</i>	Black-necked Aracari	A, V	tf, va	X	X		X	
<b>Picidae (12)</b>								
<i>Picumnus aurifrons</i>	Bar-breasted Piculet	C	tf, ca, va, cm	C	X			C
<i>Melanerpes cruentatus</i>	Yellow-tufted Woodpecker	R	tf, ca, va	X	X		X	
<i>Veniliornis affinis</i>	Red-stained Woodpecker	C	tf		X			C
<i>Campephilus rubricollis</i>	Red-necked Woodpecker	R	tf		X	X	X	
<i>Campephilus melanoleucos</i>	Crimson-crested Woodpecker	A, V	tf, ca	X				X
<i>Dryocopus lineatus</i>	Lineated Woodpecker	R	tf, ca, va	X		X	X	X
<i>Celeus torquatus</i>	Ringed Woodpecker	C	tf		X			C
<i>Celeus undatus</i>	Waved Woodpecker	C, R	tf	C	X		X	
<i>Celeus flavus</i>	Cream-colored Woodpecker	C	tf					C
<i>Celeus elegans</i>	Chestnut Woodpecker	A, V	tf, ca, va	X				
<i>Piculus flavigula</i>	Yellow-throated Woodpecker	A, V	tf	X			X	
<i>Piculus laemostictus</i>	Spot- throated Woodpecker	A, V	tf	X	X	X	X	
<b>Falconiformes</b>								
<b>Falconidae (9)</b>								
<i>Herpetotheres cachinnans</i>	Laughing Falcon	R	ca		X	X	X	
<i>Micrastur ruficollis</i>	Barred Forest-Falcon	C	tf	C	X	X		
<i>Micrastur mintoni</i>	Cryptic Forest-Falcon	A	tf					X
<i>Micrastur mirandollei</i>	Slaty-backed Forest-Falcon	A	tf					X

Continues

Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<i>Micrastur semitorquatus</i>	Collared Forest-Falcon	A	tf		X	X		
<i>Ibycter americanus</i>	Red-throated Caracara	A, V	tf	X	X		X	
<i>Daptrius ater</i>	Black Caracara	A, V	tf, ca, ri	X			X	
<i>Milvago chimachima</i>	Yellow-headed Caracara	A, V	ca, cm	X	X	X	X	
<i>Falco rufigularis</i>	Bat Falcon	A, V	tf, ca	X		X	X	
<b>Psittaciformes</b>								
<b>Psittacidae (19)</b>								
<i>Touit huetii</i>	Scarlet-shouldered Parrotlet	A, V	tf	X				
<i>Brotogeris versicolurus</i>	White-winged Parakeet	A, V	tf	X				
<i>Brotogeris chrysoptera</i>	Golden-winged Parakeet	R	tf	X	X	X	X	
<i>Pyrilia aurantiocephala</i>	Bald Parrot	C	tf		C	X	C	
<i>Pionus fuscus</i>	Dusky Parrot	R	tf	X	X	X	X	
<i>Pionus menstruus</i>	Blue-headed Parrot	A, V	tf	X	X		X	
<i>Amazona festiva</i>	Festive Parrot	A, V	va	X	X			
<i>Amazona farinosa</i>	Mealy Parrot	R	tf	X	X		X	
<i>Amazona ochrocephala</i>	Yellow-crowned Parrot	A, V	tf			X	X	
<i>Amazona amazonica</i>	Orange-winged Parrot	R	tf, va	X	X	X	X	
<i>Deroyptus accipitrinus</i>	Red-fan Parrot	A, V	tf	X	X		X	
<i>Pyrrhura perlata</i>	Crimson-bellied Parakeet	C, R	tf	C	X	X	X	
<i>Eupsittula pertinax</i>	Brown-throated Parakeet	A, V	cm	X	X	X	X	
<i>Orthopsittaca manilutata</i>	Red-bellied Macaw	A, V	tf, ca, va	X	X		X	
<i>Ara ararauna</i>	Blue-and-yellow Macaw	A, V	va, ca	X	X		X	
<i>Ara severus</i>	Chestnut-fronted Macaw	A, V	tf, ca, va	X			X	
<i>Ara macao</i>	Scarlet Macaw	A, V	tf	X	X		X	
<i>Ara chloropterus</i>	Red-and-green Macaw	C, R	tf	C	X	X	X	
<i>Guaruba guarouba</i> <sup>vu</sup>	Golden Parakeet	A, V	tf, va	X	X	X	X	
<b>Passeriformes</b>								
<b>Thamnophilidae (39)</b>								
<i>Myrmornis torquata</i>	Wing-banded Antbird	A, V	tf			X		
<i>Pygiptila stellaris</i>	Spot-winged Antshrike	R	tf				X	
<i>Microrhopias quixensis</i>	Dot-winged Antwren	A, V	tf, va	X	X		X	
<i>Epinecrophylla leucophthalma</i>	White-eyed Antwren	C, R	tf	C	C		C	
<i>Myrmotherula brachyura</i>	Pygmy Antwren	R	tf, va	X	X			
<i>Myrmotherula sclateri</i>	Sclater's Antwren	R	tf, va	X				
<i>Myrmotherula multostriata</i>	Amazonian Streaked-Antwren	C, R	va	C	C		X	
<i>Myrmotherula axillaris</i>	White-flanked Antwren	C	tf, va	X	C		X	
<i>Myrmotherula longipennis</i>	Long-winged Antwren	C	tf	C				
<i>Myrmotherula iheringi</i>	Ihering's Antwren	C, R	tf	C	C		X	
<i>Myrmotherula menetriesii</i>	Gray Antwren	R					X	
<i>Formicivora grisea</i>	White-fringed Antwren	A, V	ca, cm		X		X	
<i>Isleria huxwelli</i>	Plain-throated Antwren	C	tf, va	C			X	
<i>Thamnomanes saturninus</i>	Saturnine Antshrike	C, R	tf	C	C	X	C	
<i>Thamnomanes caesi</i>	Cinereous Antshrike	C, R	tf	C	C	X	X	
<i>Dichrozona cincta</i>	Banded Antbird	C	tf		X	X	C	
<i>Megastictus margaritatus</i>	Pearly Antshrike	A, V	tf				X	
<i>Sakesphorus luctuosus</i>	Glossy Antshrike	A, V	va				X	
<i>Thamnophilus palliatus</i>	Chestnut-backed Antshrike	A, V	ca				X	
<i>Thamnophilus schistaceus</i>	Plain-winged Antshrike	R	tf, va				X	
<i>Thamnophilus nigrocinereus</i>	Blackish-gray Antshrike	A, V	va				X	
<i>Thamnophilus aethiops</i>	White-shouldered Antshrike	C	tf				C	
<i>Thamnophilus amazonicus</i>	Amazonian Antshrike	C	tf	C	X	X	X	

Continues

Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<i>Taraba major</i>	Great Antshrike	A, V	ca					X
<i>Hypocnemoides maculicauda</i>	Band-tailed Antbird	A, V	va	X			X	
<i>Hypocnemoides melanopogon</i>	Black-chinned Antbird	C	va	C			C	
<i>Hylophylax naevius</i>	Spot-backed Antbird	C	tf	C	X		C	
<i>Hylophylax punctulatus</i>	Dot-backed Antbird	C	tf	C	X			
<i>Sclateria naevia</i>	Silvered Antbird	A, V	tf					X
<i>Myrmoborus myotherinus</i>	Black-faced Antbird	C, R	tf	C	C	X	C	
<i>Myrmoborus leucophrys</i>	White-browed Antbird	A, V	tf	X		X	X	
<i>Cercomacra cinerascens</i>	Gray Antbird	R	tf, va	X	X	X	X	
<i>Cercomacroides nigrescens</i>	Blackish Antbird	A, V	tf, va	X			X	
<i>Hypocnemis striata</i>	Spix's Warbling-Antbird	C, R	tf	C	X		C	
<i>Willisornis vidua</i>	Xingu Scale-backed Antbird	C	tf	C	C		C	
<i>Phlegopsis nigromaculata</i>	Black-spotted Bare-eye	C	tf	C	C	X	C	
<i>Phlegopsis borbae</i> <sup>En</sup>	Pale-faced Bare-eye	C, R	tf	C			C	
<i>Rhegmatorhina berlepschi</i> <sup>En</sup>	Harlequin Antbird	C, R	tf	C	C		C	
<b>Grallariidae (3)</b>								
<i>Grallaria varia</i>	Variiegated Antpitta	R	tf	X	X		X	
<i>Hylopezus macularius</i>	Spotted Antpitta	A	tf				X	
<i>Myrmothera campanisona</i>	Thrush-like Antpitta	A, R	tf	X	X		X	
<b>Rhinocryptidae (1)</b>								
<i>Liosceles thoracicus</i>	Rusty-belted Tapaculo	C, G	tf	C		X	C	
<b>Formicariidae (2)</b>								
<i>Formicarius colma</i>	Rufous-capped Antthrush	C, R	tf	C	X	X	C	
<i>Formicarius analis</i>	Black-faced Antthrush	C, R	tf	X			C	
<b>Scleruridae (3)</b>								
<i>Sclerurus macconnelli</i>	Tawny-throated Leaf-tosser	C, R	tf	X	X	X	C	
<i>Sclerurus rufigularis</i>	Short-billed Leaf-tosser	C	tf	C	C			
<i>Sclerurus caudacutus</i>	Black-tailed Leaf-tosser	C, R	tf	C	C	X	X	
<b>Dendrocolaptidae (17)</b>								
<i>Certhiasomus stictolaemus</i>	Spot-throated Woodcreeper	C	tf	C	C	X	X	
<i>Sittasomus griseicapillus</i>	Olivaceous Woodcreeper	A, V	tf	X	X	X	X	
<i>Deconychura longicauda</i>	Long-tailed Woodcreeper	C	tf	X	C	X	C	
<i>Dendrocincla merula</i>	White-chinned Woodcreeper	C	tf	C	C	X	X	
<i>Dendrocincla fuliginosa</i>	Plain-brown Woodcreeper	C	tf, va	C	X	X	X	
<i>Glyphorhynchus spirurus</i>	Wedge-billed Woodcreeper	C	tf, va	C	C	X	C	
<i>Nasica longirostris</i>	Long-billed Woodcreeper	C	va	X	C	X	X	
<i>Dendrocolaptes certhia</i>	Amazonian Barred Woodcreeper	A, V	tf, va	X	X		X	
<i>Dendrocolaptes hoffmannsi</i> <sup>En</sup>	Hoffmann's Woodcreeper	C	tf		C		X	
<i>Hylexetastes uniformis</i>	Uniform Woodcreeper	C	tf	C	C			
<i>Xiphocolaptes promeropirhynchus</i>	Strong-billed Woodcreeper	A, V	tf	X	X		X	
<i>Xiphorhynchus obsoletus</i>	Striped Woodcreeper	C, R	va	C				
<i>Xiphorhynchus ocellatus</i>	Ocellated Woodcreeper	C	tf	C	C		C	
<i>Xiphorhynchus guttatus</i>	Buff-throated Woodcreeper	C, R	tf, va	C	X			
<i>Dendroplex picus</i>	Straight-billed Woodcreeper	R	ca, va	X	X			
<i>Dendroplex kienerii</i>	Zimmer's Woodcreeper	A, V	va	X	X			
<i>Campylorhamphus procurvoides</i>	Curve-billed Scythebill	C	tf	C	X		X	
<b>Xenopidae (1)</b>								
<i>Xenops minutus</i>	Plain Xenops	C	tf, va	C	C		C	
<b>Furnariidae (6)</b>								
<i>Philydor erythrocerum</i>	Rufous-rumped Foliage-gleaner	C	tf	C			C	

Continues



Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<i>Anabacerthia ruficaudata</i>	Rufous-tailed Foliage-gleaner	A, V	tf, va	X				
<i>Ancistrops strigilatus</i>	Chestnut-winged Hookbill	A, V	tf				X	
<i>Automolus ochrolaemus</i>	Buff-throated Foliage-gleaner	C	tf, va	C	C	X	C	
<i>Automolus paraensis</i>	Para Foliage-gleaner	C, R	tf	C	C		C	
<i>Certhiaxis cinnamomeus</i>	Yellow-chinned Spinetail	A, V	ri	X				
<b>Pipridae (7)</b>								
<i>Tyrannetes stolzmanni</i>	Dwarf Tyrant-Manakin	C, R	tf, va	X	C	X	X	
<i>Chiroxiphia regina</i>	Queen Manakin	A, V	tf	X			X	
<i>Xenopipo atronitens</i>	Black Manakin	C, R	ca, cm, va				C	
<i>Lepidothrix nattereri</i>	Snow-capped Manakin	C, R	tf	C	C	X	C	
<i>Heterocercus linteatus</i>	Flame-crowned Manakin	A, V	tf, ca, va	X				
<i>Pseudopipra pipra</i>	White-crowned Manakin	C	tf, va				C	
<i>Ceratopipra rubrocapilla</i>	Red-headed Manakin	C, R	tf, va	C	C		C	
<b>Cotingidae (5)</b>								
<i>Querula purpurata</i>	Purple-throated Fruitcrow	A, V	tf	X				
<i>Lipaugus vociferans</i>	Screaming Piha	C, R	tf	C	C		X	
<i>Cotinga cayana</i>	Spangled Cotinga	V	tf	X	X			
<i>Gymnoderus foetidus</i>	Bare-necked Fruitcrow	V	tf, va	X				
<i>Xipholena punicea</i>	Pompadour Cotinga	V	tf			X		
<b>Tityridae (08)</b>								
<i>Schiffornis turdina</i>	Thrush-like Schiffornis	C	tf, ca, va	C	C		C	
<i>Laniocera hypopyrra</i>	Cinereous Mourner	A, V	tf				X	
<i>Tityra inquisitor</i>	Black-crowned Tityra	V	tf, ca, va				X	
<i>Tityra cayana</i>	Black-tailed Tityra	C	tf, ca, va	X			C	C
<i>Tityra semifasciata</i>	Masked Tityra	V	tf, ca, va		X			
<i>Pachyramphus polychopterus</i>	White-winged Becard	A, V	tf, ca, va				X	
<i>Pachyramphus marginatus</i>	Black-capped Becard	A, V	tf	X				
<i>Pachyramphus minor</i>	Pink-throated Becard	A, V	tf, ca, va		X			
<b>Onychorhynchidae (3)</b>								
<i>Onychorhynchus coronatus</i>	Royal Flycatcher	C	tf	C	X		X	
<i>Terentriacus erythrurus</i>	Ruddy-tailed Flycatcher	A, V	tf, va	X	X			
<i>Myiobius barbatus</i>	Whiskered Flycatcher	C	tf	X	X		X	
<b>Pipritidae (1)</b>								
<i>Piprites chloris</i>	Wing-barred Piprites	R	tf, ca	X	X	X	X	
<b>Platyrinchidae (1)</b>								
<i>Platyrinchus coronatus</i>	Golden-crowned Spadebill	C	tf	C				
<b>Rhynchocyclidae (17)</b>								
<i>Mionectes oleagineus</i>	Ochre-bellied Flycatcher	C	tf, va	C	X	X	X	
<i>Mionectes macconnelli</i>	McConnell's Flycatcher	C	tf, va	C	C	X	X	
<i>Leptopogon amaurocephalus</i>	Sepia-capped Flycatcher	R	tf, va		X		X	
<i>Corythopis torquatus</i>	Ringed Antpipit	C, R	tf	C	X		X	
<i>Rhynchocyclus olivaceus</i>	Olivaceous Flatbill	C	tf, ca	C	C		X	
<i>Tolmomyias sulphurescens</i>	Yellow-olive Flycatcher	C	ca, va	C				C
<i>Tolmomyias sucunduri</i> <sup>En</sup>	Sucunduri Flycatcher	R	tf				X	
<i>Tolmomyias poliocephalus</i>	Gray-crowned Flycatcher	A, V	tf, ca	X				
<i>Tolmomyias flaviventris</i>	Yellow-breasted Flycatcher	A, V	tf, ca					X
<i>Todirostrum maculatum</i>	Spotted Tody-Flycatcher	C, R	tf, ca			X	X	C
<i>Todirostrum chrysocrotaphum</i>	Yellow-browed Tody-Flycatcher	A, V	tf, ca				X	
<i>Poecilotriccus senex</i> <sup>En</sup>	Buff-cheeked Tody-Flycatcher	C, R	cm, va	C			C	
<i>Poecilotriccus latirostris</i>	Rusty-fronted Tody-Flycatcher	R	ca, cm		X		X	

Continues



Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<i>Myiornis ecaudatus</i>	Short-tailed Pygmy-Tyrant	R	tf, va	X	X		X	
<i>Hemitriccus minor</i>	Snethlage's Tody-Tyrant	C	tf	X	C	X	X	
<i>Hemitriccus minimus</i>	Zimmer's Tody-Tyrant	C, R	cm					C
<i>Lophotriccus galeatus</i>	Helmeted Pygmy-Tyrant	V	tf, va		X			
<b>Tyrannidae (23)</b>								
<i>Inezia subflava</i>	Amazonian Tyrannulet	C	va		C			
<i>Camptostoma obsoletum</i>	Southern Beardless-Tyrannulet	R	tf, ca, cm	X	X		X	
<i>Elaenia flavogaster</i>	Yellow-bellied Elaenia	A, V	ca, cm	X	X		X	
<i>Myiopagis gaimardii</i>	Forest Elaenia	C	tf, ca, va					C
<i>Tyrannulus elatus</i>	Yellow-crowned Tyrannulet	R	tf, ca, va	X	X	X	X	X
<i>Phaeomyias murina</i>	Mouse-colored Tyrannulet	R	tf, ca, cm		X	X	X	
<i>Attila spadiceus</i>	Bright-rumped Attila	C	tf		C			
<i>Legatus leucophaeus</i>	Piratic Flycatcher	A, V	tf, ca, va	X	X	X	X	
<i>Ramphotrigon ruficauda</i>	Rufous-tailed Flatbill	C, G	tf	X	C	X	C	
<i>Myiarchus ferox</i>	Short-crested Flycatcher	R	ca, cm	X			X	
<i>Rhytipterna simplex</i>	Grayish Mourner	A, V	tf		X		X	
<i>Pitangus sulphuratus</i>	Great Kiskadee	A, V	ca	X	X	X	X	
<i>Philohydor lictor</i>	Lesser Kiskadee	A, V	tf, ca, ri	X	X		X	
<i>Myiodynastes maculatus</i>	Streaked Flycatcher	A, V	ca	X	X		X	
<i>Megarynchus pitangua</i>	Boat-billed Flycatcher	A, V	tf, ca, cm	X	X		X	
<i>Myiozetetes cayanensis</i>	Rusty-margined Flycatcher	C	ca	X	X		C	
<i>Myiozetetes similis</i>	Social Flycatcher	A, V	ca				X	
<i>Myiozetetes luteiventris</i>	Dusky-chested Flycatcher	C, R	tf, ca, va					C
<i>Tyrannus melancholicus</i>	Tropical Kingbird	C	tf, ca, cm	C	X		X	
<i>Tyrannus savana</i>	Fork-tailed Flycatcher	V	ca, cm	X		X	X	
<i>Empidonomus varius</i>	Variegated Flycatcher	V	tf, ca, cm				X	
<i>Cnemotriccus fuscatus</i>	Fuscous Flycatcher	V	ca, cm				X	
<i>Lathrotriccus euleri</i>	Euler's Flycatcher	A, V	ca, cm				X	
<b>Vireonidae (4)</b>								
<i>Cyclarhis gujanensis</i>	Rufous-browed Peppershrike	A	tf, ca, va	X	X		X	X
<i>Vireolanius leucotis</i>	Slaty-capped Shrike-Vireo	V	tf		X			
<i>Hylophilus semicinereus</i>	Gray-chested Greenlet	C, R	va		C		X	
<i>Hylophilus brunneiceps</i>	Brown-headed Greenlet	A	va, cm	X	X		X	
<i>Vireo olivaceus</i> <sup>MT</sup>	Red-eyed Vireo	A	tf, ca, va	X	X	X	X	
<b>Hirundinidae (6)</b>								
<i>Atticora fasciata</i>	White-banded Swallow	V	ri				X	
<i>Stelgidopteryx ruficollis</i>	Southern Rough-winged Swallow	C	ca, ri		C			
<i>Progne tapera</i>	Brown-chested Martin	C	ca, ri		C		X	
<i>Progne subis</i> <sup>MT</sup>	Purple Martin	V	ca, ri				X	
<i>Progne chalybea</i>	Gray-breasted Martin	V	ca	X				
<i>Tachycineta albiventer</i>	White-winged Swallow	V	ri	X	X	X	X	
<b>Troglodytidae (4)</b>								
<i>Microcerculus marginatus</i>	Scaly-breasted Wren	R	tf		X	X	X	
<i>Troglodytes musculus</i>	Southern House Wren	A, V	ca		X			
<i>Campylorhynchus turdinus</i>	Thrush-like Wren	A, V	tf, va, ca, cm				X	
<i>Pheugopedius coraya</i>	Coraya Wren	A, V	ca, va		X			
<b>Turdidae (3)</b>								
<i>Turdus leucomelas</i>	Pale-breasted Thrush	A	ca	X				
<i>Turdus fumigatus</i>	Cocoa Thrush	C, R	tf, va		C			
<i>Turdus albicollis</i>	White-necked Thrush	C	tf		C	C		C

Continues



Taxon	English name	Type of evidence	Habitat	Study site				
				1	2	3	4	5
<b>Fringillidae (2)</b>								
<i>Euphonia chlorotica</i>	Purple-throated Euphonia	R	ca					X
<i>Euphonia rufiventris</i>	Rufous-bellied Euphonia	R	tf, va	X	X			
<b>Passerellidae (2)</b>								
<i>Ammodramus aurifrons</i>	Yellow-browed Sparrow	A, V	ca	X	X			
<i>Arremon taciturnus</i>	Pectoral Sparrow	V	tf, va				X	
<b>Icteridae (6)</b>								
<i>Psarocolius viridis</i>	Green Oropendola	A, V	tf	X	X			
<i>Psarocolius bifasciatus</i>	Olive Oropendola	R	tf, va	X				
<i>Cacicus cela</i>	Yellow-rumped Cacique	R	tf, ca, va	X	X	X		
<i>Cacicus haemorrhous</i>	Red-rumped Cacique	R	tf, ca, va	X	X		X	
<i>Molothrus oryzivorus</i>	Giant Cowbird	V	ca					
<i>Molothrus bonariensis</i>	Shiny Cowbird	V	ca				X	
<b>Parulidae (1)</b>								
<i>Myiothlypis mesoleuca</i>	Riverside Warbler	A, V	tf			X		
<b>Mitrospingidae (1)</b>								
<i>Lamprospiza melanoleuca</i>	Red-billed Pied Tanager	V	tf				X	
<b>Cardinalidae (3)</b>								
<i>Habia rubica</i>	Red-crowned Ant-Tanager	C, R	tf	X	X		X	
<i>Caryothraustes canadensis</i>	Yellow-green Grosbeak	C, R	tf	X			X	C
<i>Cyanoloxia rothschildii</i>	Rothschild's Blue Grosbeak	A, V	tf, va	X	X	X		
<b>Thraupidae (23)</b>								
<i>Chlorophanes spiza</i>	Green Honeycreeper	V	tf, ca		X			
<i>Cyanerpes nitidus</i>	Short-billed Honeycreeper	V	tf	X	X			
<i>Cyanerpes cyaneus</i>	Red-legged Honeycreeper	G	tf	X				
<i>Dacnis cayana</i>	Blue Dacnis	V	tf, ca	X	X			
<i>Saltator coerulescens</i>	Grayish Saltator	R	ca		X			
<i>Saltator grossus</i>	Slate-colored Grosbeak	R	tf, va		X		X	
<i>Coereba flaveola</i>	Bananaquit	R	ca	X			X	
<i>Volatinia jacarina</i>	Blue-black Grassquit	V	ca		X			
<i>Loriotus cristatus</i>	Flame-crested Tanager	A, V	tf, va		X	X		
<i>Maschalethraupis surinamus</i>	Fulvous-crested Tanager	C	tf, va	X			X	
<i>Lanio versicolor</i>	White-winged Shrike-Tanager	V	tf, ca, va				X	
<i>Tachyphonus phoenicius</i>	Red-shouldered Tanager	V	cm				X	
<i>Ramphocelus carbo</i>	Silver-beaked Tanager	V	ca, va, ri	X	X		X	
<i>Sporophila americana</i>	Wing-barred Seedeater	V	ca	X	X			
<i>Sporophila angolensis</i>	Chestnut-bellied Seed-Finch	V	ca	X	X			
<i>Sicalis columbiana</i>	Orange-fronted Yellow-Finch	V	ca, va	X				
<i>Paroaria gularis</i>	Red-capped Cardinal	C	ri		X	X	C	
<i>Thraupis episcopus</i>	Blue-gray Tanager	A, V	tf, ca	X	X		X	
<i>Thraupis palmarum</i>	Palm Tanager	V	tf, ca	X	X		X	
<i>Tangara gyrola</i>	Bay-headed Tanager	V	tf, ca		X	X		
<i>Tangara mexicana</i>	Turquoise Tanager	R	tf, ca, va		X		X	
<i>Tangara chilensis</i>	Paradise Tanager	V	tf, va		X			
<i>Tangara velia</i>	Opal-rumped Tanager	V	tf, va		X			

Appendix 2. Bird species collected in this study in the Abacaxis River and deposited in the ornithological collection of the Museu de Zoologia da USP. In the Sex column: (M) Male, (F) Female and (ND) Not Determined. The names of the locations are in Portuguese, the same as the original labels.

Museum Number	Date	Locality	Taxon	Sex
76739	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Patagioenas plumbea</i>	ND
76738	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Patagioenas plumbea</i>	M
76737	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Patagioenas subvinacea</i>	F
76736	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Patagioenas subvinacea</i>	F
76740	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Geotrygon montana</i>	F
76741	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Geotrygon montana</i>	M
76742	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Geotrygon montana</i>	M
76743	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Geotrygon montana</i>	M
76749	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Nyctidromus albigollis</i>	F
76762	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phaethornis philippii</i>	M
76763	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phaethornis philippii</i>	M
76765	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phaethornis philippii</i>	M
76764	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phaethornis philippii</i>	M
76761	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phaethornis superciliosus</i>	F
76757	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phaethornis superciliosus</i>	F
76758	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phaethornis superciliosus</i>	F
76759	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phaethornis superciliosus</i>	M
76760	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phaethornis superciliosus</i>	M
76751	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Avocettula recurvirostris</i>	M
76756	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Campylopterus largipennis</i>	M
76754	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thalurania furcata</i>	F
76755	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thalurania furcata</i>	F
76752	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thalurania furcata</i>	M
76753	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thalurania furcata</i>	ND
76728	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Psophia viridis</i>	M
76729	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Aramides cajaneus</i>	M
76730	26/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Cochlearius cochlearius</i>	F
76731	07/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Butorides striata</i>	M
76732	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Cathartes aura</i>	F
76733	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Geranospiza caerulescens</i>	F
76789	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Trogon melanurus</i>	M
76790	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Trogon viridis</i>	M
76791	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Trogon viridis</i>	M
76793	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Trogon curucui</i>	M
76792	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Trogon rufus</i>	F
76787	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Baryphthengus martii</i>	F
76786	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Baryphthengus martii</i>	M
76783	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Chloroceryle aenea</i>	F
76784	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Chloroceryle inda</i>	ND
76785	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Chloroceryle inda</i>	ND
76769	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Galbula cyanicollis</i>	F
76770	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Galbula cyanicollis</i>	F
76771	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Galbula cyanicollis</i>	ND
76767	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Galbula leucogastra</i>	M
76768	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Galbula leucogastra</i>	M
76766	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Jacamerops aureus</i>	M
76778	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Chelidoptera tenebrosa</i>	F
76782	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Monasa morphoeus</i>	F
76780	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Monasa morphoeus</i>	F
76781	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Monasa morphoeus</i>	M
76779	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Monasa nigrifrons</i>	F

Continues

Museum Number	Date	Locality	Taxon	Sex
76776	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Nonnula rubecula</i>	F
76777	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Nonnula rubecula</i>	F
76772	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Malacoptila rufa</i>	M
76773	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Malacoptila rufa</i>	F
76774	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Malacoptila rufa</i>	F
76775	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Bucco capensis</i>	M
76788	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Ramphastos tucanus</i>	F
76800	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Picumnus aurifrons</i>	M
76798	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Picumnus aurifrons</i>	M
76799	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Picumnus aurifrons</i>	F
76797	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Veniliornis affinis</i>	F
76796	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Celeus torquatus</i>	ND
76795	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Celeus undatus</i>	M
76794	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Celeus flavus</i>	M
76735	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Micrastur ruficollis</i>	F
76746	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Pyrilia aurantiocephala</i>	F
76747	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Pyrilia aurantiocephala</i>	M
76748	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Pyrilia aurantiocephala</i>	ND
76744	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Pyrrhura perlata</i>	M
76745	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Pyrrhura perlata</i>	F
76750	12/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Ara chloropterus</i>	M
76967	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Epinecophylla leucophthalma</i>	M
76968	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Epinecophylla leucophthalma</i>	F
76969	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Epinecophylla leucophthalma</i>	F
76970	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Epinecophylla leucophthalma</i>	M
76971	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Epinecophylla leucophthalma</i>	F
76972	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Epinecophylla leucophthalma</i>	F
76973	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Epinecophylla leucophthalma</i>	F
76974	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Epinecophylla leucophthalma</i>	F
76975	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Epinecophylla leucophthalma</i>	M
76976	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Epinecophylla leucophthalma</i>	M
76977	19/1/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Epinecophylla leucophthalma</i>	F
76918	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula multostriata</i>	ND
76919	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula multostriata</i>	M
76917	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Myrmotherula multostriata</i>	M
76978	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Myrmotherula axillaris</i>	M
76984	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	M
76985	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	M
76986	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	F
76987	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	F
76988	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	F
76989	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula longipennis</i>	F
76980	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula iheringi</i>	F
76981	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula iheringi</i>	M
76982	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula iheringi</i>	M
76983	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmotherula iheringi</i>	F
76979	24/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Myrmotherula iheringi</i>	M
76964	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Isleria hauxwelli</i>	M
76965	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Isleria hauxwelli</i>	F
76966	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Isleria hauxwelli</i>	M
76942	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	M

Continues

Museum Number	Date	Locality	Taxon	Sex
76943	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	M
76944	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	M
76945	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	M
76946	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	F
76947	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	F
76948	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	F
76949	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes saturninus</i>	F
76950	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Thamnomanes saturninus</i>	M
76951	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnomanes saturninus</i>	F
76952	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnomanes saturninus</i>	F
76953	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnomanes saturninus</i>	F
76954	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnomanes saturninus</i>	ND
76957	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	M
76958	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	M
76959	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	ND
76961	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	M
76962	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	F
76963	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnomanes caesius</i>	M
76960	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Thamnomanes caesius</i>	M
76955	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Thamnomanes caesius</i>	ND
76956	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Thamnomanes caesius</i>	F
76910	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Dichrozona cincta</i>	M
76936	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnophilus aethiops</i>	M
76937	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnophilus aethiops</i>	M
76938	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnophilus aethiops</i>	F
76939	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Thamnophilus aethiops</i>	F
76935	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Thamnophilus amazonicus</i>	F
76940	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hypocnemoides melanopogon</i>	M
76941	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hypocnemoides melanopogon</i>	F
76902	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax naevius</i>	F
76903	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax naevius</i>	M
76904	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax naevius</i>	F
76905	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax naevius</i>	M
76906	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax naevius</i>	F
76907	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hylophylax naevius</i>	F
76908	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hylophylax naevius</i>	F
76909	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophylax punctulatus</i>	M
76914	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmoborus myotherinus</i>	F
76915	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmoborus myotherinus</i>	F
76916	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Myrmoborus myotherinus</i>	F
76912	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Myrmoborus myotherinus</i>	M
76913	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Myrmoborus myotherinus</i>	F
76911	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Myrmoborus myotherinus</i>	M
76920	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hypocnemis striata</i>	F
76921	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hypocnemis striata</i>	F
76922	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hypocnemis striata</i>	F
76923	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hypocnemis striata</i>	M
76930	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Willisornis vidua</i>	M
76931	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Willisornis vidua</i>	M
76932	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Willisornis vidua</i>	F
76933	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Willisornis vidua</i>	F

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Museum Number	Date	Locality	Taxon	Sex
76934	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Willisornis vidua</i>	F
76928	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Willisornis vidua</i>	M
76929	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Willisornis vidua</i>	M
76924	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Willisornis vidua</i>	M
76925	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Willisornis vidua</i>	M
76926	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Willisornis vidua</i>	F
76927	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Willisornis vidua</i>	F
76882	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phlegopsis nigromaculata</i>	M
76883	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phlegopsis nigromaculata</i>	M
76884	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phlegopsis nigromaculata</i>	F
76885	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phlegopsis nigromaculata</i>	F
76890	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phlegopsis nigromaculata</i>	F
76891	15/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Phlegopsis nigromaculata</i>	M
76886	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis nigromaculata</i>	F
76887	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis nigromaculata</i>	F
76888	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis nigromaculata</i>	M
76889	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis nigromaculata</i>	F
76881	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Phlegopsis borbae</i>	F
76879	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis borbae</i>	M
76880	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Phlegopsis borbae</i>	F
76899	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Rhegmatorhina berlepschi</i>	M
76900	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Rhegmatorhina berlepschi</i>	F
76901	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Rhegmatorhina berlepschi</i>	F
76892	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhegmatorhina berlepschi</i>	M
76893	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhegmatorhina berlepschi</i>	M
76894	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhegmatorhina berlepschi</i>	F
76895	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhegmatorhina berlepschi</i>	F
76896	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Rhegmatorhina berlepschi</i>	M
76897	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Rhegmatorhina berlepschi</i>	M
76898	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Rhegmatorhina berlepschi</i>	F
76871	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Liosceles thoracicus</i>	M
76872	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Liosceles thoracicus</i>	M
76876	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Formicarius colma</i>	M
76873	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Formicarius colma</i>	F
76874	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Formicarius colma</i>	M
76875	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Formicarius colma</i>	F
76877	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Formicarius analis</i>	M
76878	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Formicarius analis</i>	M
76848	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Sclerurus macconnelli</i>	M
76852	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Sclerurus rufigularis</i>	ND
76849	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Sclerurus rufigularis</i>	M
76850	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Sclerurus rufigularis</i>	F
76851	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Sclerurus rufigularis</i>	M
76843	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Sclerurus caudacutus</i>	F
76844	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Sclerurus caudacutus</i>	F
76845	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Sclerurus caudacutus</i>	M
76846	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Sclerurus caudacutus</i>	F
76847	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Sclerurus caudacutus</i>	M
76824	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Certhiasomus stictolaemus</i>	M
76825	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Certhiasomus stictolaemus</i>	M
76823	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Certhiasomus stictolaemus</i>	F

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Museum Number	Date	Locality	Taxon	Sex
104725	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Certhiasomus stictolaemus</i>	ND
76822	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Deconychura longicauda</i>	F
76821	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Deconychura longicauda</i>	M
76829	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Dendrocincla merula</i>	F
76830	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Dendrocincla merula</i>	M
76831	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Dendrocincla merula</i>	M
76832	12/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Dendrocincla merula</i>	M
76826	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Dendrocincla merula</i>	M
76827	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Dendrocincla merula</i>	M
76828	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Dendrocincla merula</i>	M
76820	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Dendrocincla fuliginosa</i>	F
76837	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Glyphorhynchus spirurus</i>	M
76838	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Glyphorhynchus spirurus</i>	M
76839	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Glyphorhynchus spirurus</i>	M
76840	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Glyphorhynchus spirurus</i>	M
76841	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Glyphorhynchus spirurus</i>	F
76835	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Glyphorhynchus spirurus</i>	M
76836	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Glyphorhynchus spirurus</i>	F
76833	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Glyphorhynchus spirurus</i>	M
76834	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Glyphorhynchus spirurus</i>	M
76801	26/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Nasica longirostris</i>	M
76802	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Dendrocolaptes hoffmannsi</i>	M
76805	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylexetastes uniformis</i>	M
76806	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylexetastes uniformis</i>	F
76803	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Hylexetastes uniformis</i>	M
76804	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Hylexetastes uniformis</i>	F
76808	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus obsoletus</i>	M
76809	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	M
76810	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	M
76811	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	F
76812	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	F
76813	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	M
76814	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus ocellatus</i>	M
76818	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Xiphorhynchus ocellatus</i>	M
76819	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Xiphorhynchus ocellatus</i>	F
76815	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xiphorhynchus ocellatus</i>	F
76816	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xiphorhynchus ocellatus</i>	ND
76817	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xiphorhynchus ocellatus</i>	M
76807	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xiphorhynchus guttatus</i>	M
76842	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Campylorhamphus procurvoides</i>	M
76866	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xenops minutus</i>	M
76867	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xenops minutus</i>	M
76868	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Xenops minutus</i>	F
76870	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Xenops minutus</i>	M
76869	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xenops minutus</i>	F
76865	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Philydor erythrocercum</i>	F
76853	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Automolus ochrolaemus</i>	F
76854	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Automolus ochrolaemus</i>	M
76855	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Automolus ochrolaemus</i>	M
76856	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Automolus ochrolaemus</i>	M
76863	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Philydor erythrocercum</i>	M
76864	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Philydor erythrocercum</i>	M

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Museum Number	Date	Locality	Taxon	Sex
76857	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Automolus paraensis</i>	F
76858	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Automolus paraensis</i>	M
76859	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Automolus paraensis</i>	M
76860	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Automolus paraensis</i>	F
76861	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Automolus paraensis</i>	ND
76862	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Automolus paraensis</i>	F
77077	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Tyranneutes stolzmanni</i>	M
77078	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Tyranneutes stolzmanni</i>	M
77079	10/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Tyranneutes stolzmanni</i>	M
77075	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xenopipo atronitens</i>	M
77076	18/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Xenopipo atronitens</i>	M
77072	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Lepidothrix nattereri</i>	F
77073	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Lepidothrix nattereri</i>	F
77074	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Lepidothrix nattereri</i>	F
77066	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	M
77067	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	M
77068	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	M
77069	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	F
77070	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	F
77071	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lepidothrix nattereri</i>	M
71062	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Lepidothrix nattereri</i>	M
71063	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Lepidothrix nattereri</i>	M
71064	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Lepidothrix nattereri</i>	M
71065	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Lepidothrix nattereri</i>	F
103781	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Pseudopipra pipra</i>	F
77060	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Pseudopipra pipra</i>	F
77051	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Ceratopipra rubrocapilla</i>	M
77052	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Ceratopipra rubrocapilla</i>	M
77053	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Ceratopipra rubrocapilla</i>	F
77054	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Ceratopipra rubrocapilla</i>	F
77055	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Ceratopipra rubrocapilla</i>	F
77056	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Ceratopipra rubrocapilla</i>	M
77049	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Ceratopipra rubrocapilla</i>	M
77050	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Ceratopipra rubrocapilla</i>	M
77037	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Lipaugus vociferans</i>	F
77036	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Lipaugus vociferans</i>	F
77038	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Schiffornis turdina</i>	F
77039	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Schiffornis turdina</i>	M
77040	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Schiffornis turdina</i>	M
77041	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Schiffornis turdina</i>	F
77042	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Schiffornis turdina</i>	F
77043	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Schiffornis turdina</i>	M
77044	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruí	<i>Schiffornis turdina</i>	F
77045	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Schiffornis turdina</i>	F
77046	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Schiffornis turdina</i>	F
77047	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Schiffornis turdina</i>	F
77048	19/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Schiffornis turdina</i>	M
77033	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Tityra cayana</i>	M
77034	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Tityra cayana</i>	M
77035	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Tityra cayana</i>	F
76989	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Onychorhynchus coronatus</i>	M

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Museum Number	Date	Locality	Taxon	Sex
76998	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Onychorhynchus coronatus</i>	F
76997	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Onychorhynchus coronatus</i>	ND
77004	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Platyrinchus coronatus</i>	F
77005	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Platyrinchus coronatus</i>	M
77006	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Platyrinchus coronatus</i>	M
77027	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Mionectes oleagineus</i>	F
77028	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Mionectes macconnelli</i>	F
77030	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Mionectes macconnelli</i>	M
77029	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Mionectes macconnelli</i>	F
77019	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Corythopsis torquatus</i>	F
77020	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Corythopsis torquatus</i>	ND
77000	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Rhynchocyclus olivaceus</i>	M
77001	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhynchocyclus olivaceus</i>	M
77002	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhynchocyclus olivaceus</i>	F
77003	14/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Rhynchocyclus olivaceus</i>	M
77008	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Tolmomyias sulphurescens</i>	F
77009	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Tolmomyias sulphurescens</i>	M
77010	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Tolmomyias sulphurescens</i>	M
77011	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Tolmomyias sulphurescens</i>	F
77015	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Todirostrum maculatum</i>	M
77016	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Todirostrum maculatum</i>	F
77057	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Poecilotriccus senex</i>	F
77058	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Poecilotriccus senex</i>	M
77059	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Poecilotriccus senex</i>	M
77031	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Hemitriccus minor</i>	M
77032	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Hemitriccus minimus</i>	M
77017	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Inezia subflava</i>	M
77018	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Inezia subflava</i>	F
77007	21/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Myiopagis gaimardii</i>	M
76990	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Attila spadiceus</i>	M
76991	12/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Attila spadiceus</i>	F
76994	19/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Ramphotrigon ruficauda</i>	F
76995	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Ramphotrigon ruficauda</i>	M
76992	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Myiozetetes cayanensis</i>	M
76996	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Myiozetetes luteiventris</i>	M
76993	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Tyrannus melancholicus</i>	M
77106	10/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Hylophilus semicinereus</i>	M
77080	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Stelgidopteryx ruficollis</i>	M
77081	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Stelgidopteryx ruficollis</i>	M
77082	12/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Progne tapera</i>	F
77100	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Turdus fumigatus</i>	ND
77101	08/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Turdus albicollis</i>	M
77102	09/01/2007	AM, Rio Abacaxis (margem direita), Igarapé-Açú	<i>Turdus albicollis</i>	M
77103	11/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Turdus albicollis</i>	F
77104	13/01/2007	AM, Rio Abacaxis (margem esquerda), Maruim	<i>Turdus albicollis</i>	M
77105	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Turdus albicollis</i>	M
77097	22/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Caryothraustes canadensis</i>	F
77098	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Caryothraustes canadensis</i>	M
77099	25/01/2007	AM, Rio Abacaxis (margem esquerda), Camarão	<i>Caryothraustes canadensis</i>	F
77095	20/01/2007	AM, Rio Abacaxis (margem direita), Paca	<i>Paroaria gularis</i>	M