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BOLETÍN

DEL

MUSEO NACIONAL DE HISTORIA NATURAL DEL PARAGUAY

PARAGUAYAN BIRD SPECIMENS IN THE MUSEUM OF NATURAL HISTORY, GENEVA, SWITZERLAND



LAURENT VALLOTTON & PAUL SMITH

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DIRECCIÓN: Ruta Mcal Estigarribia, Km 11, Sucursal 1 Campus U.N.A, Casilla de Correo 19004,
111421 CDP, Central XI, San Lorenzo, PARAGUAY

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Ilustración de la portada: Especímenes paraguayos de *Pteroglossus castanotis* Gould (Ramphastidae) depositados en el Museo de Historia Natural de Ginebra, Suiza [foto de Martin Bozon].



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EDITORIAL

Nuestro conocimiento sobre la biodiversidad está fundado sobre la base de especímenes auténticos, que cumplen el papel de representantes corporales de las poblaciones de las que fueron tomados. Cada nombre científico, por ejemplo, está ligado a un ejemplar testigo (el tipo primario) o una serie de ejemplares testigo (la serie típica), que permiten consultar y evaluar las características físicas, tanto descritas como no descritas, y compararlas ya sea con las descripciones escritas o con otros ejemplares de identidad dudosa. Ya contando con las tecnologías de esta época, estas comparaciones no sólo pueden ser visuales, sino también químicas e incluso genéticas, permitiendo alcanzar dimensiones de estudio nunca antes soñadas.

Por otra parte, un buen espécimen se espera que esté acompañado de datos escritos (en etiquetas, catálogos, cuadernos de campo, etc.), que aporten la ubicación espacial (localidad geográfica), temporal (fechas de colecta) y ecológica (tipo de bioma habitado, especies con las que interactuaba, condiciones climáticas, etc.) a cada espécimen en el momento en que fue capturado, además de permitir trazar su contexto histórico (quién lo colectó, quién lo preparó, cómo llegó hasta la colección donde se encuentra, etc.).

Uniendo los contextos de los especímenes como representantes físicos, y sus datos como fuente de información biológica, las colecciones de ejemplares biológicos nos aportan un cúmulo de información invaluable, irremplazable e inacabable, pues a partir de su estudio y análisis siempre existe el potencial de generar más información y llegar a nuevas conclusiones que ayuden a resolver las más variadas problemáticas ligadas a recursos biológicos.

De esa manera, no sólo los ejemplares tipo son de crucial importancia, sino toda colección de referencia debidamente cuidada, documentada y curada. Sobre todo cuando representan la diversidad existente en un área geográfica determinada y dentro de un particular intervalo de tiempo. Nos ayuda por un lado a comprender cuestiones más abarcativas, como la diversidad de la biota de dicha área y época, y por otro lado cuestiones más particulares, como las características especiales y la variabilidad de las poblaciones locales de cada especie en particular.

Dentro de la dimensión recién descrita caen colecciones como la que es catalogada en el trabajo que hace a este número especial del Boletín. El Museo de Historia Natural de Ginebra posee una de las más importantes colecciones de aves del Paraguay, representando un corte en tiempo que abarca desde fines de la década de 1970 hasta comienzos de la década del 2000, y a su vez un aproximado de 40% de la riqueza de aves conocidas para el País hasta el día de hoy. El trabajo titánico de catalogar los 1618 ejemplares de aves paraguayas queda finalmente disponible para el mundo, plasmado en las 88 páginas que comprenden el artículo hoy publicado, preparado por los señores Laurent Vallotton y Paul Smith.

Bolívar R. Garcete-Barrett

Editor Asociado





Paraguayan bird specimens in the Museum of Natural History, Geneva, Switzerland

Especímenes de aves paraguayas en la colección del Museo de Historia Natural de Ginebra, Suiza

Laurent Vallotton¹ & Paul Smith^{2, 3,*},

¹Natural History Museum of Geneva, Route de Malagnou 1, 1208 Genève, Switzerland. Email: laurent.vallotton@ville-ge.ch

²FAUNA Paraguay, Encarnación, Paraguay, www.faunaparaguay.com. Email: faunaparaguay@gmail.com

³Fundación Para La Tierra, Centro IDEAL, Mariscal Estigarribia 321 c/ Tte. Capurro, Pilar, Dpto. Ñeembucú, Paraguay. www.paralatierra.org

Abstract.- A catalogue of the Paraguayan specimens in the Museum of Natural History collection, Geneva, Switzerland, is provided. A total of 1618 Paraguayan specimens of 319 species are represented in the collection, approximately 44.9% of the Paraguayan avifauna. Some information is provided about the history of the collection and its collectors, and its importance to the development of Paraguayan ornithology is highlighted. A full gazetteer of collecting localities is given as an appendix.

Key words: *catalogue, distribution, , museum, ornithology, specimens.*

Resumen.- Se presenta un catálogo de las aves paraguayas en Museo de Historia Natural de Ginebra, Suiza. Comprende 1618 ejemplares de 319 especies, aproximadamente 44.9% de la avifauna Paraguaya. Se provee información sobre la historia de la colección y sus colectores, y se destaca su importancia en el desarrollo de la ornitología paraguaya. Se incluye un apéndice con un diccionario geográfico completo de las localidades de colecta.

Palabras clave: *catálogo, distribución, , especímenes, museo, ornitología.*

Though it was one of the first South American countries to be surveyed ornithologically (Azara 1802, 1805a,b), Paraguay has since lagged behind its neighbours in production of research on national avifauna. With the notable exception of the studies by Arnaldo de Winkelried Bertoni in the early 20th century, most of the studies emanating out of Paraguay have been performed by foreigners with limited local assistance, and funded by foreign museums and institutions. Important collecting expeditions were led by American and European institutions during the late 1970s, 1980s and 1990s, and though these expeditions have greatly enhanced our knowledge of the Paraguayan avifauna in recent years, much of the material collected during these campaigns is housed in foreign museums and has never been completely published.

Given the paucity of extensive national bird collections in Paraguay, these overseas collections contain a wealth of information on

distribution and seasonality that is unavailable to national researchers, thus retarding the development of ornithology as a science.

Some of the most significant collections by a European museum were those by the Natural History Museum of Geneva (MHNG), Switzerland during the 1980s. This is one of the largest surviving collections of Paraguayan birds, but was unavailable to Hayes (1995) in his excellent review of the Paraguayan avifauna. Though some specimens were alluded to in Czaplinski & Vaucher (1981), Guyra Paraguay (2004) and Smith *et al.* (2014, 2015) its contents have never been fully published. A complete catalogue of Paraguayan birds in the MHNG collection is thus published here for the first time.

History of the collection

In 1974, prior to the collecting efforts coordinated by the Czech-born, Paraguayan



adventurer and ornithologist Carlo Dlouhy (1933-2017), the Natural History Museum of Geneva held a limited Paraguayan vertebrate collection of just 4 birds and 9 mammals. Of those, 7 bats were bought around 1930 from the Austrian zoologist Juan Francisco Humberto Schade (1902-1976), jointly with a collection of 114 molluscs.

Carlo Dlouhy established his first links with the Natural History Museum of Geneva in the 1970s when he migrated to Paraguay with the intention of earning a living from small-scale agriculture. Whilst selling off his possessions at a flea market in Geneva he met Claude Weber, then a scientific assistant at the Museum. Claude Weber was aware that several prominent naturalists had worked in Paraguay during the 19th Century like Luigi Balzan (1865-1893), Carl H. Eigenmann (1863-1927), Sir John Graham Kerr (1869-1957), Otto Fuhrmann (1871-1945) and Moisés Bertoni (1857-1932) among others and so he convinced Carlo to learn the basics of specimen preservation with a view to starting a collaboration.

Carlo left for Paraguay in 1975 but very

soon became aware that market gardening was going to be an unprofitable occupation for him in this highly fertile agricultural country where many of its inhabitants were already self-sufficient. Hired as a zoology teacher in a forestry school financed by the Swiss Agency for Development and Cooperation (COSUDE), he began to send (and sell) specimens to the Museum in Geneva. The curator of the mammal department, François Baud, and the director of the Museum, Villy Aellen, proved to be very interested in the results of the collection (Dlouhy 2009). They convinced other colleagues to join the group: F. Baud (mammalogy), A. de Chambrier (parasitology, herpetology), T. Jaccoud (taxidermy), V. Mahnert (ichthyology, herpetology, arachnology), S. Muller (ichthyology), J.-L. Perret (herpetology), C. Vaucher (parasitology) and C. Weber (ichthyology, ornithology), all employees of the Natural History Museum of Geneva (MHNG).

With considerable hard work and assistance from the Swiss program for cooperation and development (DDA), the first

Table 1. List of the expeditions with participants, dates and areas prospected.

| Date | Participants | Area prospected |
|------------------|---|------------------|
| 2.10-15.11.1979 | F. Baud, A. Colman, C. Dlouhy, B. Jacquet, V. Mahnert, J.-L. Perret, C. Vaucher | East and north |
| 10-11.1982 | F. Baud, G. Caballero, C. Dlouhy, M.-C. Durette-Desset, B. Jacquet, N. Lopez, V. Mahnert, J.-L. Perret, C. Vaucher, P. Vaucher. | South |
| 10-11.1983 | C. Dlouhy, B. Jacquet, C. Weber | West and north |
| 10.03-26.04.1985 | F. Baud, L. Benitez, C. Dlouhy, V. Mahnert | Chaco |
| 10-11.1985 | C. Dlouhy, V. Mahnert, Estela Munoz, C. Vaucher | Centre and north |
| 10.1986 | C. Dlouhy, O. Garcia, C. Weber | South |
| 10-12.1987 | A. de Chambrier, C. Dlouhy, C. Vaucher | North |
| 10-11.1988 | F. Baud, C. Dlouhy, T. Jaccoud, C. Wylar | North |
| 10-11.1989 | A. de Chambrier, C. Dlouhy, C. Vaucher | Centre and north |
| 10-11.1990 | D. Béchut, C. Dlouhy, V. Mahnert, S. Muller | Centre |
| 4.10-11.11.1991 | D. Béchut, C. Dlouhy, S. Muller, C. Vaucher | North |

multidisciplinary expedition of the Geneva Museum to Paraguay took place in 1979. Ten other expeditions followed between 1979 and 1991 (see Table 1), collecting 1611 birds, 1619 mammals (1405 of which were bats; 86.8 %), 46 000 fishes (8455 sets), 400 reptiles, 3140 amphibians, about 2500 sets of intestinal parasites, 114 sets of molluscs and over 100,000 arthropods. These numbers include the specimens collected by Carlo Dlouhy alone from 1974 to 2006 (1976-2004 for birds), prior to, during and after the 11 missions of the MHNG to Paraguay. During the expeditions, Carlo Dlouhy took care of the logistics and served as a guide, hunter, driver, cook, car mechanic and translator. He did his Masters thesis on the taxonomy and biology of some Paraguayan bird species and subspecies (Dlouhy 2001 unpubl.).

Methods

The collection was reviewed by the authors between January 2017 and October 2019. Data for each specimen is shown as: SPECIMEN NUMBER (preceded by Museum code MHNG); Sex; (DEPARTMENT); Locality; (Collector); Preparation type. The data provided is the original data from the museum database (in French). Translations of these localities are given in the gazetteer at the end of the catalogue.

The following abbreviations are used in the catalogue:

Sex: ♂ male; ♀ female; Un Unsexed;
j juvenile

Paraguayan departments: (APA) Alto Paraná; (APY) Alto Paraguay; (AMA) Amambay; (BOQ) Boquerón; (CAA) Caaguazú; (CAN) Canindeyú; (CAZ) Caazapá; (CEN) Central; (CON) Concepción; (COR) Cordillera; (GUA) Guairá; (ITA) Itapúa; (MIS) Misiones; (ÑEE)

Ñeembucú; (PAR) Paraguari; (PHA) Presidente Hayes; (SPE) San Pedro.

Eco-region endemism: ^{AF} Atlantic Forest; ^{CE} Cerrado; ^{CH} Chaco; ^{MG} Mesopotamian Grasslands; ^{PA} Pantanal (Guyra Paraguay, 2005).

Threat status: ^{EN} Endangered; ^{VU} Vulnerable; ^{NT} Near Threatened (Birdlife International, 2019).

Collector/Preparator: Collector is given in parentheses after the locality. No collector refers to specimens for which the collector was not specified..

Taxonomy follows Smith & Clay (in press). A gazetteer for the localities is provided in the appendix. The geographic distribution of the collection by department is summarised in Table 2.

Results

A total of 1618 Paraguayan specimens of 319 species are represented in the collection (2 nests, 4 skulls, 47 mounts, 1522 skins (5 found to be missing), 4 “head and wing”, 34 wet specimens [1 destroyed] and 6 sets of eggs [n = 11 eggs]), representing approximately 44.7% of the Paraguayan avifauna (Smith & Clay in press).

Eco-region endemics are poorly represented in the collection. The number of eco-region endemics per region is as follows (with the percentage of the Paraguayan total in parentheses afterwards): Atlantic Forest 19 (14.3%); Cerrado 1 (8.3%); Chaco 10 (55.6%); Mesopotamian Grasslands 0 (0%); Pantanal 0 (0%).

Threatened species are also poorly represented in the collection, with just two of the 28 threatened species represented (*Amazona vinacea*^{EN} and *Crax fasciolata*^{VU}) and two of the 35 near-threatened species represented

Table 2. Geographic distribution of specimens by political department and percentage of the total collection that they represent.

| Department | Number of specimens | Percentage of total (rounded to 1 decimal place) |
|------------------------|---------------------|--|
| Alto Paraguay (APY) | 87 | 5.4% |
| Alto Paraná (APA) | 155 | 9.6% |
| Amambay (AMA) | 33 | 2.0% |
| Boquerón (BOQ) | 181 | 11.2% |
| Caaguazú (CAA) | 24 | 1.5% |
| Caazapá (CAZ) | 45 | 2.8% |
| Canindeyú (CAN) | 25 | 1.5% |
| Central (CEN) | 73 | 4.5% |
| Concepción (CON) | 247 | 15.3% |
| Cordillera (COR) | 27 | 1.7% |
| Guairá (GUA) | 22 | 1.4% |
| Itapúa (ITA) | 106 | 6.6% |
| Misiones (MIS) | 48 | 3.0% |
| Ñeembucú (ÑEE) | 69 | 4.3% |
| Paraguarí (PAR) | 88 | 5.4% |
| Presidente Hayes (PHA) | 329 | 20.3% |
| San Pedro (SPE) | 40 | 2.5% |
| No locality | 19 | 1.2% |
| Total | 1618 | |

(*Dryocopus schulzi* and *Polystictus pectoralis*)
(Birdlife International, 2019).

Tinamidae

(4 species)

Undulated Tinamou

Crypturellus undulatus (Temminck, 1815) (1)
ssp. *undulatus* (Temminck, 1815)

MHNG 1720,051 Un (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.

Tataupa Tinamou

Crypturellus tataupa (Temminck, 1815) (2)
ssp. *tataupa* (Temminck, 1815)

MHNG 1632,061 Un (APA) Arroyo Dos Hermanas, 10 km nord Puerto Palma (No collector) 28 SEP 1980. Skin.

MHNG 3301,033 Un (GUA) Villarrica (No collector) No date. 2 eggs.

Red-winged Tinamou

Rhynchotus rufescens (Temminck, 1815) (1)
ssp. *rufescens* (Temminck, 1815)

MHNG 1720,052 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 18 OCT 1985. Skin.

This specimen shows the strongly orange neck of the nominate subspecies.

Spotted Nothura

Nothura maculosa (Temminck, 1815) (3)
 ssp. *maculosa* (Temminck, 1815)

MHNG 1720,055 Un (CAA) Arroyo Yukuyry,
 17 km sud Yhu (No collector) 12 APR
 1985. Skin.

ssp. *paludivaga* Conover, 1950

MHNG 1720,053 ♀ (CON) 5 km Estancia
 Santa Sofia (Estancia Sofia) (C. Vaucher &
 A. de Chambrier) 30 SEP 1989. Skin.

MHNG 1720,054 Un (CON) 20 km sud de
 Puente Zinho, Col Sgto José F. Lopez (No
 collector) 6 NOV 1987. Skin.

The CON specimens (MHNG 1720,053
 and 1720,054) are those referred to as *Nothura
 darwini* in Contreras *et al.* (1990) and most
 subsequent publications referring to that
 species in Paraguay, although doubt was often
 expressed as to their identity (Hayes 1995,
 Guyra Paraguay 2004). The specimens were
 illustrated in Smith *et al.* (2014) and their correct
 identity elucidated. These two specimens are
 very dull above and pale below and are closely
 similar to the subspecies *N. m. paludivaga* that
 occurs on the western bank of the Paraguay
 River. Specimen MHNG 1720,055 (CAA) is
 conspicuously more rufous-brown above and
 ochraceous below than these specimens and is
 assigned to the nominate subspecies following
 Blake (1977).

Anhimidae

(1 species)

Southern Screamer

Chauna torquata (Oken, 1816) (1)

MHNG 1721,052 Un (CON) Embouchure Río
 Aquidaban (No collector) 14 OCT 1988.
 Mounted.

Anatidae

(5 species)

White-faced Whistling Duck

Dendrocygna viduata (Linnaeus, 1766) (5)

MHNG 1721,020 Un (PHA) Route Transchaco

au km 70 (C. Dlouhy) 1 JAN 1983. Skin.

MHNG 1721,021 Un (CON) Estancia Laguna
 Negra, 15 km est Paso Barreto (No collector)
 19 OCT 1983. Skin.

MHNG 1721,022 Un (CON) Estancia Laguna
 Negra, 15 km est Paso Barreto (No collector)
 19 OCT 1983. Skin.

MHNG 1721,023 Un (CON) Estancia Laguna
 Negra, 15 km est Paso Barreto (No collector)
 19 OCT 1983. Skin.

MHNG 1721,024 Un (APY/BOQ) Route
 Fortín Teniente Montanía-Fortín Madrejón,
 km 85 (C. Dlouhy) 8 FEB 1984. Skin.

Specimen MHNG 1721,024 (APY/BOQ)
 shows a complete white throat and lower neck,
 the black collar being completely broken.

Black-bellied Whistling Duck

Dendrocygna autumnalis (Linnaeus, 1758) (9)
 ssp. *autumnalis* (Linnaeus, 1758)

MHNG 1629,010 ♀ (PHA) km 300 Transchaco
 (C. Dlouhy) 13 JAN 1979. Skin.

MHNG 1721,025 Un (PHA) Route Transchaco
 au km 70 (C. Dlouhy) 1 JAN 1983. Skin.

MHNG 1721,026 Un (PHA) Route Transchaco
 au km 70 (C. Dlouhy) 1 JAN 1983. Skin.

MHNG 1721,027 Un (PHA) Route Transchaco
 au km 120 (C. Dlouhy) 26 DEC 1983. Skin.

MHNG 1721,028 Un (PHA) Route Transchaco
 au km 180 (No collector) 24 OCT 1988.
 Skin.

MHNG 1721,029 ♀ (PHA) Route Transchaco
 au km 180 (No collector) 24 OCT 1988.
 Mounted.

MHNG 1721,030 Un (PHA) Route Transchaco
 au km 180 (No collector) 24 OCT 1988.
 Skin.

MHNG 1721,031 Un (PHA) Route Transchaco
 au km 180 (No collector) 24 OCT 1988. Skin.

MHNG 1721,032 Un (PHA) Route Transchaco
 au km 180 (No collector) 24 OCT 1988.
 Skin.

Muscovy Duck*Cairina moschata* (Linnaeus, 1758) (5)

- MHNG 1630,059 ♂ (CON) Riacho La Paz, 20 km sud Estancia Estrellas, Campo Bragado (No collector) 17 OCT 1979. Skin.
- MHNG 1631,096 ♂ (CON) Riacho La Paz, 20 km sud Estancia Estrellas, Campo Bragado (No collector) 18 OCT 1979. Mounted.
- MHNG 1721,033 ♂ (PHA) Route Transchaco au km 205 (C. Dlouhy) 30 AUG 1984. Skin.
- MHNG 1721,034 ♂ (PHA) Route Transchaco au km 170 (C. Dlouhy) 1987. Skin.
- MHNG 1721,035 ♂ (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (No collector) 3 NOV 1987. Mounted.

Ringed Teal*Callonetta leucophrys* (Vieillot, 1816) (7)

- MHNG 1629,011 ♂ (PHA) km 300 Transchaco (C. Dlouhy) 12 JAN 1979. Skin.
- MHNG 1721,036 ♂ (PHA) Route Transchaco au km 100 (C. Dlouhy) 1 JAN 1983. Skin.
- MHNG 1721,037 ♂ (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 4 FEB 1984. Skin.
- MHNG 1721,038 ♂ (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 6 FEB 1984. Skin.
- MHNG 1721,040 ♂ (PHA) Route Transchaco au km 195 (C. Dlouhy) 6 JUL 1985. Skin.
- MHNG 1721,044 ♀ (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 6 FEB 1984. Skin.
- MHNG 1721,051 ♀ (BOQ) Chaco, 5 km nord Filadelfia, Campo Aroma (No collector) 5 NOV 1988. Skin.

Brazilian Teal*Amazonetta brasiliensis* (Gmelin, 1789) (10)
ssp. ipecutiri (Vieillot 1816)

- MHNG 1632,051 ♂ (PHA) Route Transchaco au km 330 (C. Dlouhy) 25 OCT 1980. Skin.

MHNG 1721,041 ♀ (MIS) Arroyo Yabebyry (No collector) 21 OCT 1982. Skin.

MHNG 1721,042 ♂ (MIS) Arroyo Yabebyry (No collector) 21 OCT 1982. Skin.

MHNG 1721,043 ♂ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 17 OCT 1983. Skin.

MHNG 1721,045 ♂ (PHA) Route Transchaco au km 70 (C. Dlouhy) 22 AUG 1984. Skin.

MHNG 1721,046 ♂ (PHA) Route Transchaco au km 70 (C. Dlouhy) 22 AUG 1984. Skin.

MHNG 1721,047 ♂ (PHA) Route Transchaco au km 340 (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1721,048 ♀ (CON) Embouchure Río Aquidaban (No collector) 16 OCT 1988. Skin.

MHNG 1721,049 ♀ (CON) Embouchure Río Aquidaban (No collector) 16 OCT 1988. Skin.

MHNG 1721,050 ♂ (PHA) Río Paraguay, km 640, rive droite (No collector) 16 OCT 1988. Mounted.

Specimens of this species from “12 km South of Bella Vista (Province of Amambay, Paraguay)” were cited as hosts in parasitological works by Czaplinski & Vaucher (1981, 1986), but we were unable to locate these specimens in the ornithological collection.

Cracidae

(2 species)

^{CH}Chaco Chachalaca*Ortalis canicollis* (Wagler, 1830) (7)*ssp. canicollis* (Wagler, 1830)

MHNG 1721,053 Un (PHA) 25 km est de Pozo Colorado/Puerto Militar (No collector) 7 OCT 1983. Skin.

MHNG 1721,054 Un (PHA) km 316 Transchaco, Río Sombrero-Piri (C. Dlouhy) 23 APR 1984. Skin.

MHNG 1721,055 Un (PHA) km 316 Transchaco, Río Sombrero-Piri (C. Dlouhy)

23 APR 1984. Skin.

MHNG 1721,056 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 29 SEP 1985. Skin.

MHNG 1721,057 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 3 NOV 1988. Skin.

MHNG 1721,058 Un (APY) km 20 Teniente Montanía-Madrejón (C. Dlouhy) 21 APR 1984. Skin.

MHNG 1721,059 Un No locality (No collector) No date. Skin.

Bare-faced Curassow

Crax fasciolata^{VU} Spix, 1825 (1)
ssp. *fasciolata* Spix, 1825

MHNG 1630,058 ♂ (CON) Riacho La Paz, 20 km sud Estancia Estrellas, Campo Bragado (No collector) 17 OCT 1979. Skin.

Podicipedidae

(1 species)

Least Grebe

Tachybaptus dominicus (Linnaeus, 1766) (2)
ssp. *brachyrhynchus* (Chapman, 1899)

MHNG 1720,056 ♀ (CON) Estancia Santa Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 1 OCT 1989. Skin.

MHNG 1828,058 Un (BOQ) Route Teniente Montanía-Madrejón (C. Dlouhy) 2 FEB 2002. Skin.

Columbidae

(8 species)

Picazuro Pigeon

Patagioenas picazuro (Temminck, 1813) (3)
ssp. *picazuro* (Temminck, 1813)

MHNG 1722,021 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1722,022 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1722,023 Unj (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

Pale-vented Pigeon

Patagioenas cayennensis (Bonaterre, 1792)
(4)

ssp. *sylvestris* (Vieillot, 1818)

MHNG 1722,024 ♂ (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.

MHNG 1722,025 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

MHNG 1722,026 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

MHNG 1722,027 Un (CON) Embouchure Río Aquidaban (No collector) 13 OCT 1988. Skin.

White-tipped Dove

Leptotila verreauxi (Bonaparte, 1855) (10)
ssp. *chalcauchenia* Sclater & Salvin, 1870

MHNG 1490,003 ♀ (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 6 NOV 1976. Skin.

MHNG 1629,013 ♂ (APA) Río Itabó-Guazú (A. Colmán) 3 JUL 1979. Skin.

MHNG 1722,057 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1722,058 ♀ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 28 OCT 1982. Skin.

MHNG 1722,059 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1722,060 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1722,061 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.

MHNG 1722,062 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

MHNG 1808,044 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 7 AUG 1996. Skin.

MHNG 1939,031 Un (CON) Embouchure Río Aquidaban (No collector) 11 OCT 1988. Skin.

Blue Ground-Dove

Claravis pretiosa (Ferrari-Pérez, 1886) (5)

MHNG 1632,052 ♀ (APA) Arroyo Pira Pyta, 20 km nord Hernandarias (C. Dlouhy) 5 SEP 1980. Skin.

MHNG 1632,053 ♂ (APA) Arroyo Pira Pyta, 20 km nord Hernandarias (C. Dlouhy) 5 SEP 1980. Skin.

MHNG 1722,054 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1722,055 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

MHNG 1722,056 ♂ (CON) Arroyo Alegre, 5 km ouest de Estancia Primavera (No collector) 4 NOV 1987. Skin.

Plain-breasted Ground-Dove

Columbina minuta (Linnaeus, 1766) (2)
ssp. minuta (Linnaeus, 1766)

MHNG 1721,039 Un (APA) 10 km nord de Hernandarias, ex Tati Yupi (C. Dlouhy) 10 FEB 1983. Skin.

MHNG 1722,040 Un (APA) 10 km nord de Hernandarias, ex Tati Yupi (C. Dlouhy) 10 FEB 1983. Skin.

Ruddy Ground-Dove

Columbina talpacoti (Temminck, 1811) (18)
ssp. talpacoti (Temminck, 1811)

MHNG 1495,085 ♀ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1629,033 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1635,026 ♂ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1722,041 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1722,042 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1722,043 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1722,044 ♂ (MIS) Panchito López (No collector) 22 OCT 1982. Skin.

MHNG 1722,045 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1722,046 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1722,047 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 30 OCT 1982. Skin.

MHNG 1722,048 Un (APA) 6 km nord de Hernandarias (C. Dlouhy) 10 FEB 1983. Skin. Specimen missing.

MHNG 1722,049 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt Gill (No collector) 11 OCT 1986. Skin.

MHNG 1722,050 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt Gill (No collector) 11 OCT 1986. Skin.

MHNG 1722,051 ♀ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.

MHNG 1722,052 ♀ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 31 OCT 1986. Skin.

MHNG 1722,053 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 31 OCT 1986. Skin.

MHNG 1732,084 Un (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Alcohol.

MHNG 1939,032 ♂ (ITA) San Benito (No collector) 30 OCT 1982. Skin.

Scaled Dove

Columbina squammata (Lesson, 1831) (3)
ssp. *squammata* (Lesson, 1831)

MHNG 1608,062 ♂ (APA) Río Carapá (C. Dlouhy) 17 OCT 1978. Skin.

MHNG 1632,054 Un (APA) Arroyo Pira Pyta, 20 km nord Hernandarias (C. Dlouhy) 5 SEP 1980. Skin.

MHNG 1722,028 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta), route Santa Fe (C. Dlouhy) 7 JUN 1984. Skin.

Picui Ground-Dove

Columbina picui (Temminck, 1811) (15)
ssp. *picui* (Temminck, 1811)

MHNG 131,003 ♀ No locality (M. Bâcle) No date. Mounted.

MHNG 1495,086 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 8 APR 1977. Skin.

MHNG 1722,029 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1722,030 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1722,031 Un (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1722,032 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1722,033 Un (BOQ) Ea Partex, 40 km ouest Fortín Teniente Agripino Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1722,034 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1722,035 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.

MHNG 1722,036 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1722,037 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1722,038 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1722,039 Un (MIS) Panchito López (No collector) 23 OCT 1982. Skin.

MHNG 1732,079 Un (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 7 OCT 1985. Alcohol.

MHNG 1808,045 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1986. Skin.

Cuculidae

(7 species)

Guira Cuckoo

Guira guira (Gmelin, 1788) (4)

MHNG 1495,073 ♀ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 19 OCT 1977. Skin.

MHNG 1495,074 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1722,099 Un (APA) Río Itabó-Guazú (C. Dlouhy) 16 FEB 1989. Skin.

MHNG 3346,089 Un (GUA) Villarrica (No collector) No date. Egg.

Greater Ani

Crotophaga major Gmelin, 1788 (1)

MHNG 1495,066 ♂ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 14 OCT 1977. Skin.

Smooth-billed Ani

Crotophaga ani Linnaeus, 1758 (4)

MHNG 1489,100 ♀ (CEN) Colonia Thompson,

10 km sud San Lorenzo (C. Dlouhy) 6 NOV 1976. Skin.

MHNG 1630,082 Un (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1722,097 ♀ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 28 OCT 1982. Skin.

MHNG 1722,098 Un (CON) 11 km à l'est de l'Estancia San Luis de la Sierra (C. Vaucher & A. de Chambrier) 3 OCT 1989. Skin.

Striped Cuckoo

Tapera naevia (Linnaeus, 1766) (2)

MHNG 1722,100 Unj (BOQ) Ruta Transchaco, km 610 (C. Dlouhy) 16 AUG 1984. Skin.

MHNG 1732,069 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

Ash-coloured Cuckoo

Coccyua cinerea (Vieillot, 1817) (3)

MHNG 1722,091 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1722,092 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1722,093 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

The collection of three specimens within two days at the same locality, of this otherwise uncommon species, may be indicative of movements.

Squirrel Cuckoo

Piaya cayana (Linnaeus, 1766) (5)

ssp. macroura Gambel, 1849

MHNG 1495,064 ♂ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 11 OCT 1977. Skin.

MHNG 1495,065 ♂ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este

(S. Gonzales) 19 OCT 1977. Skin.

MHNG 1722,095 Un (CAA) km 230, rte N° 7, à 10 km est Campo 8 (C. Dlouhy) 13 AUG 1984. Skin.

MHNG 1722,096 ♀ (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 10 OCT 1989. Skin.

MHNG 1761,092 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 22 OCT 1991. Skin.

Dark-billed Cuckoo

Coccyzus melacoryphus Vieillot, 1817 (1)

MHNG 1722,094 ♀ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

Nyctibiidae

(1 species)

Common Potoo

Nyctibius griseus (Gmelin, 1789) (2)

ssp. griseus (Gmelin, 1789)

MHNG 1723,007 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1723,008 Un (APA) Río Itabó-Guazú (C. Dlouhy) 12 FEB 1989. Skin.

Caprimulgidae

(7 species)

Nacunda Nighthawk

Chordeiles nacunda (Vieillot, 1817) (1)

ssp. nacunda (Vieillot, 1817)

MHNG 1723,010 Un (PHA) Route Transchaco au km 150 (C. Vaucher & A. de Chambrier) 11 OCT 1989. Skin.

Common Nighthawk

Chordeiles minor (Forster, 1771) (1)

ssp. minor (Forster, 1771)

MHNG 1490,004 ♀ (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 6 NOV

1976. Skin.

We were unable to confirm the subspecies because of a lack of comparative material and the subspecies listed here is that given on the specimen label.

Short-tailed Nighthawk

Lurocalis semitorquatus (Gmelin, 1789) (2)
ssp. *nattereri* (Temminck, 1822)

MHNG 1723,009 ♀ (CON) 11 km à l'est de l'Estancia San Luis de la Sierra (C. Vaucher & A. de Chambrier) 3 OCT 1989. Skin.

MHNG 1743,029 Un (CON) 11 km à l'est de l'Estancia San Luis de la Sierra (C. Vaucher & A. de Chambrier) 3 OCT 1989. Egg.

Common Pauraque

Nyctidromus albicollis (J.F. Gmelin, 1789) (2)
ssp. *derbyanus* Gould, 1838

MHNG 1723,011 ♂ (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 16 OCT 1983. Skin.

MHNG 1723,012 ♂ (APA) Río Itabó-Guazú (No collector) 12 FEB 1989. Skin.

Little Nightjar

Setopagis parvula (Gould, 1837) (17)
ssp. *parvula* (Gould, 1837)

MHNG 1629,030 ♂ (CON) Arroyo Azotey, km 230 (No collector) 10 OCT 1979. Skin.

MHNG 1723,013 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1723,014 ♂ (MIS) Panchito Lopez (C. Dlouhy) 23 OCT 1982. Skin.

MHNG 1723,015 ♂ (MIS) Panchito Lopez (C. Dlouhy) 24 OCT 1982. Skin.

MHNG 1723,016 ♂ (MIS) Panchito Lopez (C. Dlouhy) 24 OCT 1982. Skin.

MHNG 1723,017 ♀ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 18 OCT 1983. Skin.

MHNG 1723,018 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 27

OCT 1983. Skin.

MHNG 1723,019 ♀ (APA) Lac Itaipú (ex Arroyo Pira Pyta), route Santa Fe (C. Dlouhy) 14 JAN 1984. Skin.

MHNG 1723,020 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1723,021 ♂ (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 12 NOV 1985. Skin.

MHNG 1723,022 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986

MHNG 1723,023 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1723,024 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1723,025 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1723,026 ♀ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1723,027 ♀ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1939,038 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.

Scissor-tailed Nightjar

Hydropsalis torquata (J.F. Gmelin, 1789) (5)
ssp. *furcifer* (Vieillot, 1817)

MHNG 1723,028 ♀ (CEN) Tobatí (No collector) 21 MAR 1985. Skin.

MHNG 1723,029 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 10 OCT 1986. Skin.

MHNG 1723,030 ♂ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 4 NOV 1988. Skin.

MHNG 1723,031 ♀ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1808,043 ♀ (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 1 OCT 1986. Skin.

Rufous Nightjar

Antrostomus rufus (Boddaert, 1783) (1)
ssp. *rutilus* Burmeister, 1856

MHNG 1954,046 Un (BOQ) Estancia La Conquista 10 km ouest Pratt Gill (No collector) OCT 1986. Alcohol.

Apodidae

(3 species)

Great Dusky Swift

Cypseloides senex (Temminck, 1826) (1)

MHNG 1723,032 Un (APA) Lac Itaipú, Vivero (C. Dlouhy) 3 JUN 1982. Skin.

Grey-rumped Swift

Chaetura cinereiventris Sclater, 1862 (1)
ssp. *cinereiventris* Sclater, 1862

MHNG 1723,033 Un (CON) Arroyo Allegre, 5 km est Estancia Primavera (No collector) 4 NOV 1987. Skin.

Sick's Swift

Chaetura meridionalis (Hellmayr, 1907) (8)

MHNG 1723,034 ♂ (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1723,035 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1723,036 ♂ (CON) Embouchure Río Aquidaban (No collector) 12 OCT 1988. Skin.

MHNG 1723,037 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1723,038 Un (APY) Santo Domingo,

17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1723,039 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1723,040 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1939,039 Un (BOQ) Montanía 17 (KM 17) (No collector) 5 NOV 1988. Skin.

Trochilidae

(9 species and 2 nests)

Rufous-breasted Hermit

Glaucis hirsutus (J.F. Gmelin, 1788) (1)
ssp. *hirsutus* (J.F. Gmelin, 1788)

MHNG 1723,041 ♀ No locality (No collector) "between 1983 and 1989". Skin.

The specimen label states "the first capture in Paraguay", however Smith *et al.* (2014) treated it as hypothetical in Paraguay because of the lack of details provided, and we consider that this should remain the case until further details become available or further records are obtained.

Planalto Hermit

Phaethornis pretrei (Lesson & De Lattre, 1839) (3)

MHNG 1723,047 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

MHNG 1723,048 Un (CEN) Tobatí (No collector) 20 MAR 1985. Skin.

MHNG 1723,049 Un (COR) Salto Pirareta (No collector) 23 SEP 1989. Skin.

^{AF}Scale-throated Hermit

Phaethornis eurynome (Lesson, 1831) (5)
ssp. *paraguayensis* M. & W. Bertoni, 1901

MHNG 1723,042 Un (CAZ) Arroyo Yvira-Pari, 2 km est Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1723,043 Un (CAZ) Arroyo Yvira-

Pari, 2 km est Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1723,044 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1723,045 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1723,046 Un (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (No collector) 28 AUG 1984. Skin.

Blue-tufted Starthroat

Heliomaster furcifer (Shaw, 1812) (5)

MHNG 1723,057 ♀ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 29 SEP 1989. Skin.

MHNG 1723,069 ♂ (CEN) 5 km est San Lorenzo, Colonia Thomson (C. Dlouhy) DEC 1976. Skin.

MHNG 1723,070 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

MHNG 1723,071 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 7 OCT 1986. Skin.

MHNG 1937,034 ♂ (BOQ) Pozo Hondo (C. Dlouhy) 5 AUG 1994. Skin.

Glittering-bellied Emerald

Chlorostilbon lucidus ssp. (8)

MHNG 866,072 ♂j No locality (A. Vaucher) No date. Skin.

MHNG 1723,052 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1723,053 ♀ (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

MHNG 1723,054 ♀ (CEN) Tobatí (No collector) 20 MAR 1985. Skin.

MHNG 1723,055 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 3 AUG 1985. Skin.

MHNG 1723,056 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 10 OCT 1986. Skin.

MHNG 1808,056 ♀ No locality (C. Dlouhy) No date. Skin.

MHNG 1808,057 ♂ No locality (C. Dlouhy) No date. Skin.

We were unable to confidently assign these specimens to subspecies.

^{AF}Purple-crested Plovercrest

Stephanoxis loddigesii (Gould, 1831) (2)

MHNG 1723,050 ♀ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1723,051 ♂ (APA) Río Parana, Ciudad del Este (No collector) JUL 1989. Skin.

Versicoloured Emerald

Amazilia versicolor (Vieillot, 1818) (1)

ssp. *kubtchecki* (Ruschi, 1959)

MHNG 1723,068 ♀ No locality (No collector) No date. Skin.

Rufous-throated Sapphire

Hylocharis sapphirina (J.F. Gmelin, 1788) (1)

MHNG 1723,058 ♂ No locality (No collector) No date. Skin.

The lack of any collection data coupled with the fact that “Paraguay” was hand written on to the printed specimen label at some point after collection renders the provenance as questionable. There are several reported sightings of the species in Paraguay (Bertoni 1939, Brooks *et al.* 1995, Lowen *et al.* 1997), but as there are no other specimens we prefer to treat this one with caution.

Gilded Hummingbird

Hylocharis chrysura (Shaw, 1812) (10)

MHNG 1723,059 Un (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.

MHNG 1723,060 Un (CEN) San Lorenzo (C.

Dlouhy) SEP 1988. Skin.

MHNG 1723,061 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 16 OCT 1983. Skin.

MHNG 1723,062 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 6 APR 1985. Skin.

MHNG 1723,063 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.

MHNG 1723,064 Un (CON) Estancia Primavera, 30 km sud Estrellas (No collector) 31 OCT 1987. Skin.

MHNG 1723,065 Un (CON) Estancia Santa Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 5 OCT 1989. Skin.

MHNG 1723,066 Un (CON) Arroyo Allegre, 5 km est Estancia Primavera, 30 km Estrellas (C. Vaucher & A. de Chambrier) 10 OCT 1989. Skin.

MHNG 1723,067 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 17 OCT 1989. Skin.

MHNG 1761,100 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 22 OCT 1991. Skin.

Nest Undetermined Species (2)

MHNG 1819,051 Un (CEN) Asunción (C. Dlouhy) 1979.

MHNG 1819,052 Un (CEN) Asunción (C. Dlouhy) 1979.

Ciconiidae

(2 species)

Maguari Stork

Ciconia maguari (Gmelin, 1789) (2)

MHNG 1720,074 Un (CON) Embouchure Río Aquidaban (No collector) 14 OCT 1988. Skin.

MHNG 1720,075 Un (PHA) Route Transchaco au km 150 (No collector) 7 NOV 1988. Skull.

Jabiru

Jabiru mycteria (Lichtenstein, 1819) (1)

MHNG 1720,076 Un (PHA) Route Transchaco au km 175 (No collector) 6 JUL 1985. Skin.

Phalacrocoracidae

(1 species)

Neotropic Cormorant

Phalacrocorax brasilianus (Gmelin, 1789) (1)
ssp. *brasilianus* (Gmelin, 1789)

MHNG 1720,057 Un (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Mounted.

This is the specimen referred to in the parasitology paper by Kostadinova *et al.* (2002).

Aramidae

(1 species)

Limpkin

Aramus guarauna (Linnaeus, 1766) (3)

ssp. *guarauna* (Linnaeus, 1766)

MHNG 1635,003 Un (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.

MHNG 1635,004 Un (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.

MHNG 1721,060 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Mounted.

Rallidae

(5 species)

Purple Gallinule

Porphyrio martinica (Linnaeus, 1766) (3)

MHNG 1721,071 Un (PHA) Route Transchaco au km 310, Río Salado-i (No collector) 2 APR 1983. Skin.

MHNG 1721,072 Unj (PHA) Route Transchaco au km 310, Río Salado-i (No collector) 2 APR 1983. Skin.

MHNG 1721,073 Unj (PHA) Route Transchaco

au km 310, Río Salado-i (No collector) 2
APR 1983. Skin.

Ash-throated Crake

Mustelirallus albicollis (Vieillot, 1819) (1)
ssp. albicollis (Vieillot, 1819)

MHNG 1916,046 Un (CEN) San Lorenzo,
Campus Universitaire (C. Dlouhy) 15 AUG
2002. Skin.

Giant Wood-Rail

Aramides ypecaha (Vieillot, 1819) (6)

MHNG 1629,012 Un (PHA) km 300
Transchaco, Centre Recherche (C. Dlouhy)
13 JAN 1979. Skin.

MHNG 1721,065 Un (PAR) Estancia Montiel
Potrero, 15 km est de Cerrito (No collector)
13 OCT 1982. Skin.

MHNG 1721,066 Un (CON) Estancia Laguna
Negra, 15 km est Paso Barreto (No collector)
17 OCT 1983. Mounted.

MHNG 1721,067 Un (PHA) Route Transchaco
au km 80 (C. Dlouhy) 16 DEC 1983. Skin.

MHNG 1721,068 Un (PHA) Route Transchaco
au km 340 (C. Dlouhy) 30 AUG 1984.
Skin.

MHNG 1721,069 Un (PHA) Route Transchaco
au km 175 (C. Dlouhy) 6 JUL 1985. Skin.

Grey-necked Wood-Rail

Aramides cajaneus (Müller, 1776) (4)
ssp. cajaneus (Müller, 1776)

MHNG 1721,061 Un (PAR) Arroyo Mbaey,
3 km nord de Carapeguá (No collector) 9
OCT 1982. Skin.

MHNG 1721,062 Un (PHA) Route Transchaco
au km 137 (C. Dlouhy) 3 JUL 1985. Skin.

MHNG 1721,063 Un (BOQ) 15 km nord-est
Fortín Boqueron (C. Dlouhy) 26 JUL 1985.
Skin.

MHNG 1721,064 Un (PHA) Route Transchaco
au km 180 (C. Dlouhy) 3 AUG 1985. Skin.

Spot-flanked Gallinule

Gallinula melanops (Vieillot, 1819) (1)
ssp. melanops (Vieillot, 1819)

MHNG 1721,070 Un (BOQ) Route Fortín
Teniente Montanía-Fortín Madrejón, km 10
(C. Dlouhy) 21 APR 1984. Skin.

Heliornithidae

(1 species)

Sungrebe

Heliornis fulica (Boddaert, 1783) (1)

MHNG 1721,074 ♀ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María
(No collector) 23 OCT 1985. Skin.

Charadriidae

(1 species)

Southern Lapwing

Vanellus chilensis (Molina, 1782) (3)
ssp. lampronotus (Wagler, 1827)

MHNG 1632,058 ♀ (APA) Centro Forestal
Alto Parana, 12 km ouest Ciudad del Este
(C. Dlouhy) 27 JUN 1978. Skin.

MHNG 1721,079 ♀ (PAR) Arroyo Mbaey, 3
km nord de Carapeguá (No collector) 10
OCT 1982. Skin.

MHNG 1721,080 ♂ (PAR) Arroyo Mbaey, 3
km nord de Carapeguá (No collector) 10
OCT 1982. Skin.

Recurvirostridae

(1 species)

Black-necked Stilt

Himantopus mexicanus (Müller, 1776) (3)
ssp. melanurus Vieillot, 1817

MHNG 1630,073 ♂ (AMA) Capitán Bado (No
collector) 26 OCT 1979. Skin.

MHNG 1722,013 Un (BOQ) 20 km est de
Pozo Colorado/Puerto Militar (C. Vaucher
& A. de Chambrier) 29 SEP 1989. Skin.

MHNG 1722,014 Un (BOQ) 20 km est de
Pozo Colorado/Puerto Militar (C. Vaucher
& A. de Chambrier) 29 SEP 1989. Skin.

Scolopacidae

(8 species)

Stilt Sandpiper*Calidris himantopus* (Bonaparte, 1826) (4)

MHNG 1630,067 Un (AMA) Capitán Bado (No collector) 26 OCT 1979. Skin.

MHNG 1630,068 Un (AMA) Capitán Bado (No collector) 26 OCT 1979. Skin.

MHNG 1722,012 Un (BOQ) Ea Partex, 40 km ouest Fortín Teniente Agripino Enciso (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1808,048 Un (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 1 OCT 1996. Skin.

White-rumped Sandpiper*Calidris fuscicollis* Vieillot, 1819 (6)

MHNG 1630,069 Un (AMA) Capitán Bado (No collector) 26 OCT 1979. Skin.

MHNG 1722,004 Un (BOQ) Route Transchaco au km 702, 18 km Fortín Teniente Agripino Enciso (C. Dlouhy) 28 AUG 1984. Skin.

MHNG 1722,006 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1722,007 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1722,008 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1722,009 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 23 OCT 1989. Skin.

Pectoral Sandpiper*Calidris melanotos* Vieillot, 1819 (3)

MHNG 1722,005 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1722,010 Un (CON) Embouchure Río Aquidaban (No collector) 15 OCT 1988.

Skin.

MHNG 1722,011 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

South American Snipe*Gallinago paraguayiae* Vieillot, 1816 (1)

MHNG 1722,003 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 6 APR 1985. Skin.

Wilson's Phalarope*Phalaropus tricolor* Vieillot, 1819 (1)

MHNG 1722,015 Un (BOQ) 20 km est de Pozo Colorado/Puerto Militar (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

Solitary Sandpiper*Tringa solitaria* Wilson, 1813 (16)ssp. *cinnamomea* (Brewster, 1890)

MHNG 1721,089 Un (PHA) Route Transchaco au km 149 (C. Dlouhy) 26 DEC 1983. Skin.

MHNG 1721,090 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta), route Santa Fe (C. Dlouhy) 14 JAN 1984. Skin.

MHNG 1721,091 Un (PHA) Route Transchaco au km 325, Río Verde (C. Dlouhy) 5 FEB 1985. Skin.

MHNG 1721,092 Un (PHA) Route Transchaco au km 325, Río Verde (C. Dlouhy) 5 FEB 1985. Skin.

MHNG 1721,093 Un (APY) Route Fortín Teniente Montanía-Fortín Madrejón, km 85 (C. Dlouhy) 5 FEB 1985. Skin.

MHNG 1721,094 Un (BOQ) Route Transchaco au km 702, Fortín Teniente Agripino Enciso (C. Dlouhy) 27 AUG 1984. Skin.

MHNG 1721,095 Un (COR) Salto Pirareta (No collector) 22 MAR 1985. Skin.

MHNG 1721,096 Un (PAR) Caballero (No collector) 25 MAR 1985. Skin.

MHNG 1721,097 Un (PAR) Caballero (No collector) 26 MAR 1985. Skin.

MHNG 1721,098 Un (PAR) Caballero (No collector) 26 MAR 1985. Skin.

MHNG 1721,099 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 12 NOV 1985. Skin.

MHNG 1721,100 Un (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (No collector) 4 NOV 1987. Skin.

MHNG 1722,001 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

MHNG 1722,002 Un (COR) Salto Pirareta (No collector) 22 NOV 1989. Skin.

MHNG 1761,090 Un (CON) Arroyo Trementina (No collector) 12 OCT 1991. Skin.

MHNG 1939,040 Un (PAR) Caballero (No collector) 25 MAR 1985. Skin.

Greater Yellowlegs

Tringa melanoleuca (Gmelin, 1789) (1)

MHNG 1721,088 Un (CON) Embouchure Río Aquidaban (No collector) 15 OCT 1988. Skin.

Lesser Yellowlegs

Tringa flavipes (Gmelin, 1789) (8)

MHNG 1721,081 Un (PHA) km 313 Transchaco, Río Salado-i, Ao. Mboreví (No collector) 8 NOV 1985. Skin.

MHNG 1721,082 Un (PHA) km 313 Transchaco, Río Salado-i, Ao. Mboreví (No collector) 8 NOV 1985. Skin.

MHNG 1721,083 Un (PHA) Route Transchaco au km 320 (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1721,084 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1721,085 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1721,086 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1721,087 Un (PHA) km 120 rte Pozo Colorado/Puerto Militar (C. Vaucher & A. de Chambrier) 29 SEP 1989. Skin.

MHNG 1939,041 Un (PHA) Chaco, route Transchaco km 115 (No collector) 24 OCT 1988. Skin.

Jacanidae

(1 species)

Wattled Jacana

Jacana jacana (Linnaeus, 1766) (7)

ssp. *jacana* (Linnaeus, 1766)

MHNG 1489,047 ♂ (PHA) Río Siete Puntas, 5 km avant Pozo Colorado (C. Dlouhy) 15 SEP 1976. Skin.

MHNG 1608,060 ♀ (CAN) Río Carapá (C. Dlouhy) 20 OCT 1978. Skin.

MHNG 1721,075 ♀ (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.

MHNG 1721,076 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 19 OCT 1983. Skin.

MHNG 1721,077 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 6 APR 1985. Skin.

MHNG 1721,078 ♂ (CAA) Juan O'Leary (No collector) 18 OCT 1987. Mounted

MHNG 1732,076 Unj (COR) Río Piribebuy, 5 km nord Emboscada Nueva (C. Dlouhy) 6 APR 1985. Alcohol.

Rynchopidae

(1 species)

Black Skimmer

Rynchops niger (Linnaeus, 1758) (1)

ssp. *intercedens* H. Saunders, 1895

MHNG 1722,020 Un (PHA) Río Paraguay, km 492 (rive droite) (No collector) 18 OCT 1988. Mounted.

Laridae

(2 species)

Large-billed Tern

Phaetusa simplex (J.F. Gmelin, 1789) (3)
ssp. *chloropoda* (Vieillot, 1819)

MHNG 1722,016 Un (APY) Estancia Laguna General Díaz (No collector) 23 NOV 1987. Skin.

MHNG 1722,017 Un (APY) Estancia Laguna General Díaz (No collector) 23 NOV 1987. Mounted.

MHNG 1722,018 Un (PHA) Río Paraguay, km 492 (rive droite) (No collector) 18 OCT 1988. Skin.

Yellow-billed Tern

Sternula superciliaris (Vieillot, 1819) (1)

MHNG 1722,019 Un (CEN) Villeta (No collector) 13 NOV 1987. Skin.

Ardeidae

(5 species)

Rufescent Tiger-Heron

Tigrisoma lineatum (Boddaert, 1783) (4)
ssp. *marmoratum* (Vieillot, 1817)

MHNG 1720,070 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.

MHNG 1720,071 Un (PHA) Route Transchaco au km 230 (No collector) 2 AUG 1985. Skin.

MHNG 1720,072 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Mounted.

MHNG 1720,073 Un (APY) Estancia Laguna General Díaz (No collector) 19 NOV 1987. Skin.

Specimen MHNG 1720.070 was initially identified as Fasciated Tiger-Heron *T. fasciatum* (Guyra Paraguay 2004) but its identity as an immature of this species was confirmed by Smith *et al.* (2015).

Striated Heron

Butorides striata (Linnaeus, 1758) (7)
ssp. *striata* (Linnaeus, 1758)

MHNG 1720,063 ♀ (MIS) Panchito Lopez (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,064 Unj (CEN) San Lorenzo (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,065 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,066 Un (GUA) Arroyo Ovie, rte N° 8, à 10 km sud Villarica (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,067 Un (GUA) Arroyo Ovie, rte N° 8, à 10 km sud Villarica (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,068 ♀ (SPE) Río Jejuí-Guazú, rte N° 3 (C. Dlouhy) 6 JUL 1985. Skin.

MHNG 1720,069 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (C. Dlouhy) 6 JUL 1985. Skin.

Cattle Egret

Bubulcus ibis (Linnaeus, 1758) (1)
ssp. *ibis* (Linnaeus, 1758)

MHNG 1720,062 Un (PHA) Route Transchaco au km 160 (C. Dlouhy) 6 JUL 1985. Skin.

Great Egret

Ardea alba Linnaeus, 1758 (3)
ssp. *egretta* Gmelin, 1789

MHNG 1720,060 Un (PHA) Route Transchaco au km 175 (No collector) 6 JUL 1985. Skin.

MHNG 1720,061 ♂ (CON) Embouchure Río Aquidaban (No collector) 14 OCT 1988. Skin.

MHNG 1761,052 Un (PHA) Route Transchaco au km 175 (No collector) 6 JUL 1985. Alcohol. Specimen destroyed.

Whistling Heron

Syrigma sibilatrix (Temminck, 1824) (2)

ssp. *sibilatrix* (Temminck, 1824)

MHNG 1720,058 Un (PHA) Route Transchaco
au km 175 (No collector) 6 JUL 1985. Skin.

MHNG 1720,059 ♀ (PHA) Route Transchaco
au km 235 (rive droite) (No collector) 25
OCT 1988. Mounted.

Threskiornithidae

(4 species)

White-faced Ibis

Plegadis chihi (Vieillot, 1817) (2)

MHNG 1720,083 Un (PHA) Route Transchaco
au km 250 (No collector) 6 JUL 1985. Skin.

MHNG 1720,084 Un (PHA) Route Transchaco
au km 250 (No collector) 6 JUL 1985. Skin.

Bare-faced Ibis

Phimosus infuscatus (Lichtenstein, 1823) (6)
ssp. *infuscatus* (Lichtenstein, 1823)

MHNG 1720,077 Un (PHA) Route Transchaco
au km 175 (No collector) 6 JUL 1985. Skin.

MHNG 1720,078 Un (PHA) Route Transchaco
au km 175 (No collector) 6 JUL 1985.
Mounted.

MHNG 1720,079 Un (CON) Embouchure Río
Aquidaban (No collector) 15 OCT 1988.
Skin.

MHNG 1720,080 Un (CON) Embouchure Río
Aquidaban (No collector) 15 OCT 1988.
Skin.

MHNG 1720,081 Un (CON) Embouchure Río
Aquidaban (No collector) 15 OCT 1988.
Skin.

MHNG 1720,082 Un (CON) Embouchure Río
Aquidaban (No collector) 15 OCT 1988.
Skin.

Plumbeous Ibis

Theristicus caerulescens (Vieillot, 1817) (2)

MHNG 1720,085 Un (PHA) Route Transchaco
au km 250 (No collector) 6 JUL 1985. Skin.

MHNG 1720,086 Un (PHA) Route Transchaco
au km 250 (No collector) 6 JUL 1985. Skin.

Roseate Spoonbill

Platalea ajaja Linnaeus, 1758 (1)

MHNG 1720,087 Un (PHA) Río Paraguay, km
492 (rive droite) (No collector) 6 JUL 1985.
Mounted.

Cathartidae

(2 species)

Black Vulture

Coragyps atratus (Bechstein, 1793) (2)
ssp. *foetens* (Lichtenstein, 1818)

MHNG 1629,004 Un (AMA) 15 km sud-est
de Bella Vista, Ancien camp indien (C.
Dlouhy) 25 OCT 1979. Skull.

MHNG 1720,088 Un (CON) Embouchure Río
Aquidaban (No collector) 16 OCT 1988.
Mounted.

South American populations are usually
separated as *C. a. brasiliensis* (Bonaparte,
1850) east of the Andes, and *C. a. foetens*
(Lichtenstein, 1817) west of the Andes
(Ferguson-Lees & Christie 2001). However
Paraguayan populations have often been
attributed to the latter (Bertoni 1939, Laubmann
1939, Willim 1947, Schade & Masi Pallarés
1967, Contreras *et al.* 1990).

MHNG 1720,088 is the specimen referred to
in the parasitological paper by Kostadinova *et al.*
(2002).

Turkey Vulture

Cathartes aura (Linnaeus, 1758) (1)
ssp. *ruficollis* Spix, 1824

MHNG 1720,089 Un (BOQ) Chaco, 5 km nord
Filadelfia, Campo Aroma (No collector) 5
NOV 1988. Skin.

Accipitridae

(10 species)

Snail Kite

Rostrhamus sociabilis (Vieillot, 1817) (4)
ssp. *sociabilis* (Vieillot, 1817)

MHNG 1634,097 Unj (PHA) Route Transchaco
au km 330 (C. Dlouhy) DEC 1980. Skin.

MHNG 1720,091 ♀ (PHA) Route Transchaco au km 330 (No collector) 25 OCT 1988. Mounted.

MHNG 1720,092 ♂ (PHA) Route Transchaco au km 204 (No collector) 7 NOV 1987. Skin.

MHNG 1720,093 ♂ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 4 NOV 1988. Mounted.

MHNG 1720,092 is the specimen referred to in the parasitological paper by Kostadinova *et al.* (2006).

Plumbeous Kite

Ictinia plumbea (Gmelin, 1788) (2)

MHNG 1608,089 ♂ (CAN) Río Carapá (C. Dlouhy) 20 AUG 1978. Skin.

MHNG 1720,094 Un (CAZ) Arroyo Yta-Y à 8 km à l'est de San Juan Nepomuceno (No collector) 30 OCT 1983. Mounted.

Long-winged Harrier

Circus buffoni (Gmelin, 1788) (1)

MHNG 1720,095 Un (APA) Lac Itaipu, 10 km nord Hernandarias, Arroyo Tati Yupi (No collector) 28 JUL 1984. Skin.

Sharp-shinned Hawk

Accipiter velox (Wilson, 1812) (1)
ssp. *erythronemius* (Kaup, 1850)

MHNG 1720,090 Un (BOQ) Ea Partex, 40 km ouest Fortín Teniente Agripino Enciso (No collector) 29 AUG 1984. Skin.

Catanach *et al.* (2021) recommended the use of the name *A. velox* (Wilson, 1812) for mainland Sharp-shinned Hawks, with the former name *A. striatus* Vieillot, 1817 being restricted to the Hispaniolan resident population, which they considered to be a distinct species.

Crane Hawk

Geranospiza caerulescens (Vieillot, 1817) (2)
ssp. *flexipes* J.L. Peters, 1935

MHNG 1495,060 ♀i (BOQ) Chaco, Filadelfia

(C. Dlouhy) 10 APR 1977. Skin.

MHNG 1720,096 Un (BOQ) Pratt's Gill (No collector) 3 AUG 1985. Skin.

Savanna Hawk

Buteogallus meridionalis (Latham, 1790) (5)

MHNG 1720,100 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 5 JUL 1985. Skin.

MHNG 1721,001 Un (PHA) Route Transchaco au km 195 (C. Dlouhy) 5 JUL 1985. Skin.

MHNG 1721,002 Un (PHA) km 30, ouest Puerto Militar, rte de Pozo Colorado (C. Dlouhy) 7 NOV 1987. Skin.

MHNG 1721,003 Un (PHA) Route Transchaco au km 235 (C. Dlouhy) 25 OCT 1988. Skin.

MHNG 1721,004 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (C. Dlouhy) 4 NOV 1988. Skin.

Great Black Hawk

Buteogallus urubitinga (Gmelin, 1788) (3)
ssp. *urubitinga* (Gmelin, 1788)

MHNG 1720,097 Un (PHA) Route Transchaco au km 95 (No collector) 3 JUL 1985. Skin.

MHNG 1720,098 Un (PHA) Route Transchaco au km 70 (No collector) 24 OCT 1988. Skin.

MHNG 1720,099 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

Roadside Hawk

Rupornis magnirostris (Gmelin, 1788) (6)
ssp. *saturatus* (P.L. Sclater & Salvin, 1876)

MHNG 1721,008 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (C. Dlouhy) 12 AUG 1982. Skin.

MHNG 1721,009 Un (PHA) Route Transchaco au km 110 (C. Dlouhy) 3 JUL 1985. Skin.

MHNG 1721,010 ♂i (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

MHNG 1721,011 ♂i (BOQ) Estancia La

Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

MHNG 1721,012 Un (PHA) km 35 ouest Puerto Militar, route Pozo Colorado (No collector) 7 NOV 1987. Skin.

MHNG 1808,042 ♀ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

Harris's Hawk

Parabuteo unicinctus (Temminck, 1824) (3)
ssp. *unicinctus* (Temminck, 1824)

MHNG 1632,062 Uni (APY) Aguadulce, 90 km nord Fortín Madrejón (C. Dlouhy) 21 OCT 1980. Skin.

MHNG 1721,005 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 29 SEP 1985. Skin.

MHNG 1721,006 Uni (PHA) Route Transchaco au km 115 (C. Dlouhy) 7 NOV 1987. Skin.

Black-chested Buzzard-Eagle

Geranoaetus melanoleucus (Vieillot, 1819)
(1)

ssp. *melanoleucus* (Vieillot, 1819)

MHNG 1721,007 Un (CON) Embouchure Río Aquidaban (C. Dlouhy) 12 OCT 1988. Skin.

Tytonidae

(1 species)

American Barn Owl

Tyto furcata (Temminck, 1827) (1)
ssp. *tuidara* (Gray, 1829)

MHNG 1638,026 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 7 DEC 1981. Skin.

New World populations show a high degree of genetic divergence from Old World populations, and may merit recognition as a distinct species American Barn-owl *T. furcata* (Temminck, 1827) (Aliabadian *et al.* 2016, Uva *et al.* 2018).

Strigidae

(5 species)

Tropical Screech-Owl

Megascops choliba (Vieillot, 1817) (3)
ssp. *choliba* (Vieillot, 1817)

MHNG 1723,001 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1723,002 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 24 JAN 1983. Skin.

MHNG 1723,003 Un (ITA) Arroyo Agua-Pey, rte No 1, 52 km nord-ouest Encarnación (No collector) 24 JAN 1985. Skin.

Great Horned Owl

Bubo virginianus (Gmelin, 1788) (1)
ssp. *nacurutu* (Vieillot, 1817)

MHNG 1732,094 Un (PHA) km 120 Transchaco (C. Dlouhy) AUG 1990. Skin.

^{CH}Chaco Owl

Strix chacoensis Cherrie & Reichenberger,
1921 (2)

MHNG 1723,005 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 29 SEP 1985. Skin.

MHNG 1723,006 Unj (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 5 OCT 1986. Skin.

Ferruginous Pygmy-Owl

Glaucidium brasilianum (Gmelin, 1788) (4)
ssp. *brasilianum* (Gmelin, 1788)

MHNG 1608,081 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 23 OCT 1978. Skin.

MHNG 1635,027 ♂ (CAN) Río Carapá (No collector) 3 NOV 1979. Skin

MHNG 1723,004 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

ssp. *pallens* Brodkorb, 1938b

MHNG 1808,047 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

Specimens 1608,081 (APY) and 1808,047 (PHA) are of the rufous phase. Specimens 1635,027 (CAN) and 1723,004 (CON) are of the brown phase. Though theoretically the Paraguayan Chaco is occupied by the subspecies *G. b. pallens* Brodkorb, 1938b, we are unable to identify clear diagnostic characters within the species description (we were unable to review the type series). Brodkorb (1938b) describes *G. b. pallens* as follows:

“Similar to *Glaucidium brasilianum brasilianum* (Gmelin), of Brazil and eastern Paraguay, but much paler both above and below, and in the brown phase less rufescent; pileum drab; back, wing coverts, rump, sides, and streaks on breast pale hair brown; light spotting and streaking above more nearly white, with less buffy”.

This description is both vague and subjective, lacking clear diagnostic characters making reference to an overall tendency towards paler colouration in Chaco birds when compared with those of the Oriental region of Paraguay (a commonly observed trend in many species). It is rendered yet more difficult to interpret with the addition of the following paragraph suggesting considerable variation in the population, where the author notes variation in crown pattern, base colour and tail pattern within the Chaco population:

“A series of eight specimens from west of Puerto Casado exhibits complete gradation between the red and brown phases in body color. There is also a complete chain from almost plain crowns, through progressively more streaked stages, to spotted crowns. None of the birds examined has a wholly plain tail, although one in the red phase has only the faintest indication of bars on the median pair of rectrices, the remaining pairs being

lightly barred with dusky. Two other red Paraguayan birds, together with a bird from Bolivia, are barred with rufous and dusky on all the rectrices. All those in the brown phase, including the type, have the tail barred with dark brown and white”.

Specimen MHNG 1808,047 (PHA) comes closest to the description of *G. b. pallens*, but the other Chaco specimen MHNG 1608,081 (APY) cannot be confidently associated with that form. MHNG 1808,047 (PHA) is indeed less boldly streaked below than the birds from eastern Paraguay (CAN and CON), however this is not the case for MHNG 1608,081 (APY) which is equally heavily streaked below as the Oriental birds. We have also observed birds with both heavy and light streaking on the underparts within the proposed range of *G. b. pallens* during the course of 15 years of field work. Furthermore, MHNG 1808,047 (PHA) does show whiter spotting on the upperparts, but it shares this characteristic with the two Oriental birds (CAN and CON) and not with the other Chaco specimen (MHNG 1608,081: APY) in which the spotting is largely tinged with rufescent. MHNG 1808,047 (PHA) has more limited streaking on the nape and a less conspicuously barred tail than MHNG 1608,081, but the crown patterns are otherwise similar to each other.

We tentatively assign MHNG 1808,047 (PHA) to *G. b. pallens*, but assign MHNG 1608,081 (APY) to *G. b. brasilianum*. We note that there is a difference in habitat between the two localities, with Aguadulce (APY) lying at the interface of Dry Chaco and Pantanal ecoregions, whilst Pozo Arias (PHA) lies at the interface of the Dry Chaco and Humid Chaco ecoregions. However, in doing so we note several points of consideration for future authors: 1) the variation described within the subspecies *G. b. pallens* is far greater than the variation between it and the nominate subspecies, and that this variation may be exaggerated in small series of birds containing

multiple colour phases; 2) the subjective nature of the description makes it extremely difficult to confidently assign small series of specimens to the proposed subspecies; and 3) the majority of Brodkorb's proposed new subspecies from the Paraguayan Chaco have subsequently been invalidated. Further study is required to confirm the validity of *G. b. pallens* and its distribution in the Paraguayan Chaco.

Burrowing Owl

Athene cucularia (Molina, 1782) (2)
ssp. *grallaria* (Temminck, 1822) / *cucularia*
(Molina, 1782)

MHNG 1630,070 Un (AMA) Capitán Bado
(No collector) 26 OCT 1979. Skin.

MHNG 1630,071 Un (AMA) Capitán Bado
(C. Dlouhy) 26 OCT 1979. Skin.

These specimens are somewhat intermediate between the nominate with white underparts and brown upperparts, and *A. c. grallaria* of southern Brazil which has buffy underparts and more rufescent tinge to the upperparts.

Trogonidae

(2 species)

Blue-crowned Trogon

Trogon curucui Linnaeus, 1766 (9)
ssp. *behni* Gould, 1875

MHNG 1723,073 ♂ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María
(No collector) 13 OCT 1983. Skin.

MHNG 1723,074 ♂ (CON) Embouchure Río
Aquidabán (No collector) 11 OCT 1988.
Mounted.

MHNG 1723,075 ♀ (CON) Embouchure Río
Aquidabán (No collector) 11 OCT 1988.
Skin.

MHNG 1723,076 ♀ (CON) Embouchure Río
Aquidabán (No collector) 11 OCT 1988.
Skin.

MHNG 1742,025 ♂ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María

(No collector) 13 OCT 1983. Skin.

MHNG 1759,056 ♂ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María
(No collector) 22 OCT 1991. Skin.

MHNG 1761,093 ♂ (CON) Puente Zinho (No
collector) 15 OCT 1991. Skin.

MHNG 1761,095 ♂ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María
(No collector) 22 OCT 1991. Skin.

MHNG 1761,096 ♀ (CON) Arroyo Tagatiya-
Mi, 15 km nord-ouest Estancia Santa María
(No collector) 23 OCT 1991. Skin.

^{AF}Surucua Trogon

Trogon surrucura Vieillot, 1817 (2)
ssp. *surrucura* Vieillot, 1817

MHNG 1495,071 ♀ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 15 AUG 1977. Skin.

MHNG 1723,072 ♂ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 17 DEC 1982. Skin.

Momotidae

(1 species)

^{AF}Rufous-capped Motmot

Baryphthengus ruficapillus (Vieillot, 1818) (2)
ssp. *ruficapillus* (Vieillot, 1818)

MHNG 1632,057 ♀ (APA) Arroyo Santa
Helena (C. Dlouhy) 6 SEP 1980. Skin.

MHNG 1882,024 Un (APA) Arroyo Dos
Hermanas (C. Dlouhy) OCT 1979.
Unmounted.

Alcedinidae

(5 species)

Ringed Kingfisher

Megaceryle torquata (Linnaeus, 1766) (4)
ssp. *torquata* (Linnaeus, 1766)

MHNG 1723,077 ♂ (MIS) Panchito Lopez (C.
Dlouhy) 23 OCT 1982. Skin.

MHNG 1723,078 ♂ (PHA) Route Transchaco
au km 212, Río Montelindo (No collector)

16 MAR 1985. Mounted.

MHNG 1723,079 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Skin.

MHNG 1723,080 ♀ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

Amazon Kingfisher

Chloroceryle amazona (Latham, 1790) (8)
ssp. *amazona* (Latham, 1790)

MHNG 1723,081 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1723,082 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1723,083 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1723,084 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1723,085 ♂ (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 21 OCT 1983. Skin.

MHNG 1723,086 ♀ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 15 OCT 1985. Skin.

MHNG 1723,087 Un (CON) Arroyo Allegre, 5 km est Estancia Primavera (No collector) 3 NOV 1987. Mounted.

MHNG 1732,088 ♂ (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 15 MAR 1985. Alcohol.

American Pygmy Kingfisher

Chloroceryle aenea (Pallas, 1764) (1)
ssp. *aenea* (Pallas, 1764)

MHNG 1724,001 ♂ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur

l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.

Green Kingfisher

Chloroceryle americana (Gmelin, 1788) (18)
ssp. *mathewsii* Laubmann, 1927

MHNG 1630,055 ♂ (CON) Riacho La Paz, 20 km sud Estancia Estrellas (No collector) 16 OCT 1979. Skin.

MHNG 1630,061 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 21 OCT 1979. Skin.

MHNG 1630,062 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1979. Skin.

MHNG 1723,088 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1723,089 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1723,090 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 26 OCT 1983. Skin.

MHNG 1723,091 ♀ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 28 OCT 1983. Skin.

MHNG 1723,092 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1723,093 ♀ (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

MHNG 1723,094 ♂ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 14 OCT 1985. Alcohol.

MHNG 1723,095 ♂ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 14 OCT 1985. Skin.

MHNG 1723,096 ♂ (CON) Arroyo Allegre, 5 km est Estancia Primavera, 30 km sud Estancia Estrellas (No collector) 31 OCT 1987. Mounted.

MHNG 1723,097 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier A. de Chambrier) 17 OCT 1989. Skin.

MHNG 1741,095 ♀ (CON) Estancia Estrellas, Arroyo Alegre (No collector) 31 OCT 1987. Skin.

MHNG 1761,097 ♂ (CON) Arroyo Alegre (5 km E de Estancia Primavera) (No collector) 18 OCT 1991. Skin.

MHNG 1761,098 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 22 OCT 1991. Skin.

MHNG 1939,035 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1939,036 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 12 OCT 1983. Skin.

Green-and-Rufous Kingfisher

Chloroceryle inda (Linnaeus, 1766) (5)

MHNG 1630,060 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 20 OCT 1979. Skin.

MHNG 1723,098 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1723,099 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 12 OCT 1983. Skin.

MHNG 1723,100 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1985. Skin.

MHNG 1761,099 ♂ (CEN) Villeta (C. Dlouhy) 13 NOV 1987. Skin.

Bucconidae

(2 species)

^{AF}**Buff-bellied Puffbird**

Notharchus swainsoni (Gray, 1846) (1)

MHNG 1629,021 ♀ (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

White-eared Puffbird

Nystalus chacuru (Vieillot, 1816) (2)
ssp. *chacuru* (Vieillot, 1816)

MHNG 1724,002 Un (CEN) Tobatí (No collector) 20 MAR 1985. Skin.

MHNG 1954,048 Un (CAA) Río Acaray, Paso Cadena (No collector) 17 OCT 1986. Alcohol.

Ramphastidae

(4 species)

Toco Toucan

Ramphastos toco Müller, 1776 (3)
ssp. *albugularis* Cabanis, 1862

MHNG 1629,003 Un (AMA) 15 km sud-est de Bella Vista, Ancien camp indien (No collector) 25 OCT 1979. Skull.

MHNG 1724,003 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 17 OCT 1983. Skin.

MHNG 1724,004 Un (CON) 60 km sud Puente Zinho (No collector) 6 NOV 1987. Mounted.

^{AF}**Red-breasted Toucan**

Ramphastos dicolorus Linnaeus, 1766 (1)

MHNG 1608,087 Un (APA) Río Itabó-Guazú (4 km Embouchure) (C. Dlouhy) 23 NOV 1978. Skin.

^{AF}**Saffron Toucanet**

Pteroglossus bailloni (Vieillot, 1819) (2)

MHNG 1608,061 ♀ (CAN) Río Carapá (C. Dlouhy) 20 OCT 1978. Skin.

MHNG 1635,001 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 1 JUL 1981. Skin.

Chestnut-eared Aracari

Pteroglossus castanotis Gould, 1833 (4)
ssp. *australis* Cassin, 1867

MHNG 1495,072 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 10 OCT 1977. Skin.

MHNG 1629,019 Un (APA) Río Itabó-Guazú (4 km Embouchure) (C. Dlouhy) No date. Skin.

MHNG 1634,099 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) DEC 1980. Skin.

MHNG 1634,100 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) OCT 1980. Skin.

Picidae

(15 species)

White-barred Piculet

Picumnus cirratus Temminck, 1825 (6)
ssp *cirratus* Temminck, 1825

MHNG 1724,009 ♀ (CAA) Arroyo Hondo, 10 km nord-est de Carayao (C. Vaucher & A. de Chambrier) 21 OCT 1989. Skin.

MHNG 1724,010 ♂ (CAA) Arroyo Hondo, 10 km nord-est de Carayao (C. Vaucher & A. de Chambrier) 22 OCT 1989. Skin.

ssp *pilcomayensis* Hargitt, 1891

MHNG 1954,039 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Alcohol.

MHNG 1724,006 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 3 AUG 1985. Skin.

MHNG 1724,007 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1724,008 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

Specimens from CAA are more boldly barred black on the underparts than those assigned here to *P. c. pilcomayensis*. Chaco specimens typically show fine black barring, which in some cases are broken at the midline. However, our field experience suggests that the extent of barring is variable in this species, and large series of specimens will help to reveal

whether this variation is subspecific or clinal.

^{AF}Ochre-collared Piculet

Picumnus temminckii Lafresnaye, 1845 (1)

MHNG 1724,005 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

White Woodpecker

Melanerpes candidus (Otto, 1796) (3)

MHNG 1724,026 ♀ (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Mounted.

MHNG 1724,027 ♂ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1724,028 ♀ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

^{AF}Yellow-fronted Woodpecker

Melanerpes flavifrons (Vieillot, 1818) (2)

MHNG 1630,092 ♀ (None) No locality (No collector) No date. Skin.

MHNG 1634,098 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) No date. Skin.

White-fronted Woodpecker

Melanerpes cactorum (d'Orbigny, 1839) (12)

MHNG 1724,029 ♂ (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1724,030 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 JUL 1985. Skin.

MHNG 1724,031 ♂ (APY) Estancia Laguna General Díaz (No collector) 18 NOV 1987. Skin.

MHNG 1724,032 ♂ (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1724,033 ♂ (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987.

Skin.

MHNG 1724,034 ♂ (APY) Estancia Laguna General Díaz (No collector) 22 NOV 1987. Skin.

MHNG 1724,035 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Mounted.

MHNG 1724,036 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.

MHNG 1808,052 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.

MHNG 1808,053 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

MHNG 1808,054 ♀ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.

MHNG 1808,055 ♀ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

Checkered Woodpecker

Veniliornis mixtus (Boddaert, 1783) (4)
ssp. *malleator* (Wetmore, 1922)

MHNG 1724,038 ♀ (PHA) Route Transchaco au km 340 (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1724,039 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 10 OCT 1986. Skin.

MHNG 1724,040 ♂ (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1808,069 ♀ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

Little Woodpecker

Veniliornis passerinus (Linnaeus, 1766) (1)
ssp. *olivinus* (Natterer & Malherbe, 1845)

MHNG 1724,037 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier)

16 OCT 1989. Skin.

^{CH}Cream-backed Woodpecker

Campephilus leucopogon (Valenciennes, 1826) (2)

MHNG 1495,070 ♀ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1724,041 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 4 JUL 1985. Mounted.

Lineated Woodpecker

Dryocopus lineatus (Linnaeus, 1766) (1)
ssp. *erythroops* (Valenciennes, 1826)

MHNG 1495,069 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 15 AUG 1977. Skin.

The specimen belongs to the Atlantic Forest subspecies *D. l. erythroops*, which lacks white tram lines on the dorsum.

^{CH}Black-bodied Woodpecker

Dryocopus schulzi^{NT} (Cabanis, 1883) (2)

MHNG 1808,049 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

MHNG 1808,050 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 17 JUN 1996. Skin.

Specimen MHNG 1808,050 shows white tram lines on the dorsum consistent with the “*shiptoni*” morph. MHNG 1808,049 is a typical specimen.

Pale-crested Woodpecker

Celeus lugubris (Malherbe, 1851) (4)
ssp. *kerri* Hargitt, 1891

MHNG 1724,023 ♂ (CEN) Tobatí (No collector) 21 MAR 1985. Skin.

MHNG 1724,024 ♂ (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Mounted.

MHNG 1724,025 ♀ (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988.

Skin.

MHNG 1762,001 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 24 OCT 1991. Skin.

Blond-crested Woodpecker

Celeus flavescens (Gmelin, 1788) (3)
ssp. *flavescens* (Gmelin, 1788)

MHNG 1495,068 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 13 OCT 1977. Skin.

MHNG 1632,060 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 5 OCT 1980. Skin.

MHNG 1724,022 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 15 MAY 1979. Skin.

Golden-green Woodpecker

Piculus chrysochloros (Vieillot, 1818) (3)
ssp. *chrysochloros* (Vieillot, 1818)

MHNG 1724,020 ♀ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 16 OCT 1983. Skin.

MHNG 1724,021 ♀ (PAR) Lago Ypoá, Estancia Monitor (C. Dlouhy) 26 NOV 1988. Skin.

MHNG 1808,051 ♂ (BOQ) Route Transchaco au km 340 (C. Dlouhy) 1 AUG 1994. Skin.

Green-barred Woodpecker

Colaptes melanochloros (Gmelin, 1788) (3)

MHNG 1724,019 ♂ (APY) Estancia Laguna General Díaz (No collector) 20 SEP 1987. Mounted. Specimen not examined.

ssp. *melanochloros* (Gmelin, 1788)

MHNG 1495,067 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 14 OCT 1977. Skin.

ssp. *nigroviridis* > *melanochloros* (Grant, 1911b)

MHNG 1724,018 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Skin.

The specimen from SPE shows heavily

spotted underparts (including the belly) on a yellow background, and distinctly greenish barring on the upperparts and is not true *C. m. nigroviridis*. It may be referable to the “intermediate” specimens referred to by Short (1972).

Campo Flicker

Colaptes campestris (Vieillot, 1818) (8)
ssp. *campestroides* (Malherbe, 1849)

MHNG 1489,045 ♂ (CEN) Environ d'Asuncion, Colonia Thompson (C. Dlouhy) 3 MAY 1976. Skin.

MHNG 1724,011 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1724,012 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1724,013 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1724,014 ♂ (MIS) Panchito Lopez (No collector) 23 OCT 1982. Skin.

MHNG 1724,015 ♀ (MIS) 25 km sud Villa Florida (No collector) 21 OCT 1986. Skin.

MHNG 1724,016 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1724,017 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

All specimens in the collection are of the white-throated subspecies *C. c. campestroides*.

Cariamidae

(1 species)

Red-legged Seriema

Cariama cristata (Linnaeus, 1766) (1)

MHNG 1629,005 Un (AMA) 15 km sud-est de Bella Vista, Ancien camp indien (No collector) 25 OCT 1979. Skull.

Falconidae

(5 species)

Laughing Falcon*Herpetotheres cachinnans* (Linnaeus, 1758)

(1)

ssp. *cachinnans* (Linnaeus, 1758)

MHNG 1721,017 Un (CON) 10 km Estancia Santa Sofia (C. Vaucher & A. de Chambrier) 11 OCT 1989. Skin.

Crested Caracara*Caracara plancus* (J.F. Miller, 1777) (4)

MHNG 1721,013 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 OCT 1985. Skin.

MHNG 1721,014 Un (PHA) km 25 ouest Puerto Militar, route de Pozo Colorado (No collector) 7 NOV 1987. Skin.

MHNG 1721,015 Un (PHA) Route Transchaco au km 350 (No collector) 5 NOV 1988. Skin.

MHNG 1761,091 Un (PHA) Pozo Colorado (No collector) 7 NOV 1987. Mounted.

Yellow-headed Caracara*Daptrius chimachima* (Vieillot, 1816) (2)ssp. *chimachima* (Vieillot, 1816)

MHNG 1495,059 ♀j (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 28 SEP 1977. Skin.

MHNG 1721,016 ♂ (CON) Estancia Santa Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 11 OCT 1989. Skin.

Chimango Caracara*Daptrius chimango* (1)ssp. *chimango*

MHNG 1630,072 Un (AMA) Capitán Bado (C. Dlouhy) 26 OCT 1979. Skin.

American Kestrel*Falco sparverius* (Vieillot, 1816) (4)ssp. *cinnamominus* (Vieillot, 1816)

MHNG 1632,059 ♂ (APA) Puerto Eirene, 10 km nord Puerto Palma (C. Dlouhy) 25 APR 1979. Skin.

MHNG 1721,018 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 29 SEP 1985. Skin.

MHNG 1721,019 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 29 SEP 1985. Skin.

MHNG 3325,010 Un (GUA) Villarrica (No collector) No date. 4 eggs.

Psittacidae

(10 species)

A specimen of Military Macaw *Ara militaris* (MHNG 133,030) with locality "probably Paraguay" and entry date "1831" was considered to be clearly an error of provenance by Rodriguez *et al.* (2019).

Monk Parakeet*Myiopsitta monachus* (Boddaert, 1783) (7)ssp. *cotorra* (Vieillot, 1818)

MHNG 1608.064 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 21 AUG 1978. Skin.

MHNG 1722,079 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1722,080 Un (PHA) 25 km est de Pozo Colorado/Puerto Militar (No collector) 8 OCT 1983. Skin.

MHNG 1722,081 Un (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1722,082 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1722,083 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1939,034 Un (PHA) Route Transchaco

au km 293, Estancia Apendice (No collector)
2 NOV 1988. Skin.

Scaly-headed Parrot

Pionus maximiliani (Kuhl, 1820) (4)

ssp. *melanoblepharus* Miranda-Ribeiro, 1920

MHNG 1722,086 Un (APA) Salto Tembey (No collector) 3 NOV 1982. Skin.

MHNG 1722,087 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) 8 JAN 1985. Skin.

MHNG 1722,088 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) 8 JAN 1985. Skin.

MHNG 1722,089 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) 8 JAN 1985. Skin.

^{AF}Vinaceous-breasted Parrot

Amazona vinacea^{EN} (Kuhl, 1820) (1)

MHNG 1629,017 Un (APA) Arroyo Pozuelo (C. Dlouhy) 24 JUL 1979. Skin.

Turquoise-fronted Parrot

Amazona aestiva (Linnaeus, 1758) (3)

ssp. *aestiva* (Linnaeus, 1758) > *xanthopteryx* (Berlepsch, 1896)

MHNG 1629,018 Un (APA) Río Itabó-Guazú (4 km Embouchure) (C. Dlouhy) 17 JUL 1979. Skin.

ssp. *xanthopteryx* (Berlepsch, 1896)

MHNG 1634,096 Un (PHA) Route Transchaco au km 400 (C. Dlouhy) OCT 1980. Skin.

MHNG 1722,090 Un (BOQ) Route Transchaco au km 540 (C. Dlouhy) 27 AUG 1984. Skin.

Specimen MHNG 1629,018 from the Atlantic Forest of APA is from a broad area of intergrade between the two subspecies in the Upper Paraná River Basin (Darrieu 1983a, Juniper & Parr 1998, Leite *et al.* 2008). It has turquoise ear coverts typical of the nominate race and small amounts of yellow on the wing bend mixed into the red.

Cobalt-rumped Parrotlet

Forpus xanthopterygius (Spix, 1824) (3)

ssp. *xanthopterygius* (Spix, 1824)

MHNG 1722,084 ♂ (APA) Río Itabó-Guazú (C. Dlouhy) 12 FEB 1989. Skin.

MHNG 1722,085 ♂ (APA) Río Itabó-Guazú (C. Dlouhy) 12 FEB 1989. Skin.

MHNG 1766,082 ♂ (APA) Lac Itaipú (No collector) FEB 1994. Skin.

Maroon-bellied Parakeet

Pyrrhura frontalis (Vieillot, 1818) (12)

ssp. *chiripepe* (Vieillot, 1818)

MHNG 1495,061 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (N. Pérez) 13 OCT 1977. Skin.

MHNG 1608,063 ♂ (CAN) Río Carapá (C. Dlouhy) 18 OCT 1978. Skin.

MHNG 1630,086 Un (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1630,087 Un (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1722,073 Un (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1722,074 ♀ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1722,075 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

MHNG 1722,076 Un (CON) Arroyo Alegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 8 OCT 1989. Skin.

MHNG 1722,077 Un (CON) Arroyo Alegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 8 OCT 1989. Skin.

MHNG 1722,078 Un (None) No locality (No collector) No date. Skin.

MHNG 1808,046 Un (CON) Arroyo Alegre (5 km E de Estancia Primavera) (C. Dlouhy) 18 OCT 1991. Skin.

MHNG 1939,033 Un (CON) Arroyo Alegre (5 km E de Estancia Primavera) (No collector) 4 NOV 1987. Skin.

Peach-fronted Parakeet

Eupsittula aurea (Gmelin, 1788) (6)

MHNG 1629,022 Un (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

MHNG 1722,067 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 18 OCT 1983. Skin.

MHNG 1722,068 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 18 OCT 1983. Skin.

MHNG 1722,069 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 20 OCT 1983. Skin.

MHNG 1722,070 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Skin.

MHNG 1722,071 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Skin.

Nanday Parakeet

Aratinga nenday (Vieillot, 1823) (2)

MHNG 1495,063 ♂ (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 3 JUL 1977. Skin.

MHNG 1722,072 ♂ (PHA) Route Transchaco au km 235 (No collector) 25 OCT 1988. Skin.

Blue-crowned Parakeet

Thectocercus acuticaudatus (Vieillot, 1818)
(6)

ssp. *acuticaudatus* (Vieillot, 1818)

MHNG 707,068 Un (None) No locality (No collector) No date. Egg.

MHNG 1629,014 Un (PHA) km 300 Transchaco (C. Dlouhy) 13 JAN 1979. Skin.

MHNG 1634,094 Un (BOQ) Mariscal Estigarribia (C. Dlouhy) OCT 1980. Skin.

MHNG 1634,095 Un (BOQ) Mariscal Estigarribia (C. Dlouhy) OCT 1980. Skin.

MHNG 1722,063 Un (BOQ) Mariscal Estigarribia (C. Dlouhy) 6 AUG 1980. Skin.

MHNG 1722,064 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Mounted.

White-eyed Parakeet

Psittacara leucophthalmus (Müller, 1776) (4)
ssp. *leucophthalmus* (Müller, 1776)

MHNG 1495,062 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 19 OCT 1977. Skin.

MHNG 1630,066 Un (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.

MHNG 1722,065 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) 20 SEP 1984. Skin.

MHNG 1722,066 Un (CEN) San Lorenzo (C. Dlouhy) 2 AUG 1988. Mounted.

Thamnophilidae

(4 species)

Great Antshrike

Taraba major (Vieillot, 1816) (11)
ssp. *major* (Vieillot, 1816)

MHNG 1725,049 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1725,050 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1725,051 ♂ (PHA) Route Transchaco au km 310 (C. Dlouhy) 6 FEB 1984. Skin.

MHNG 1725,052 ♂ (PHA) Route Transchaco au km 248 (C. Dlouhy) 25 AUG 1984. Skin.

MHNG 1725,053 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 4 JUL 1985. Skin.

MHNG 1725,054 ♂ (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988.

Skin.

MHNG 1725,055 ♂ (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1988. Skin.

MHNG 1725,056 ♂ (APY) Estancia Laguna General Díaz (No collector) 23 NOV 1988. Skin.

MHNG 1725,057 ♀ (ÑEE) 18 km est de San Lorenzo (No collector) 16 OCT 1987. Skin.

MHNG 1725,058 ♂ (ÑEE) 18 km est de San Lorenzo (No collector) 16 OCT 1987. Skin.

MHNG 1808,067 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 1 AUG 1996. Skin.

Barred Antshrike

Thamnophilus doliatus (Linnaeus, 1764) (7)
ssp. *radiatus* (Vieillot, 1816)

MHNG 1725,059 ♀ (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.

MHNG 1725,060 ♂ (BOQ) Transchaco, Estancia Patria, km 680 (C. Dlouhy) 16 AUG 1984. Skin.

MHNG 1725,061i ♂i (CEN) Tobatí (No collector) 20 MAR 1985. Skin.

MHNG 1725,062 ♂ (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1725,063 ♀ (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1762,006 ♂i (CON) Río Salado, Piquete-Cué (No collector) 9 OCT 1991. Skin.

MHNG 1808,068 ♂ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 2 AUG 1994. Skin.

Two male Chaco specimens (MHNG 1725,060 and MHNG 1725,062) show greatly reduced banding on the underparts and extensive unbanded areas on the belly. This is consistent with the description of *T. d. cadwaladeri* Bond & Meyer de Schauensee 1940 with a type locality in the Bolivian Chaco at Villa Montes, Tarija, very close to

the Paraguayan border. Certainly no obvious ecological barriers exist between the proposed range of *T. d. cadwaladeri* and the Paraguayan Chaco that might result in subspecification, however our field experience suggests that the extent of barring on the underparts of males is highly variable in the Paraguayan Chaco, with some specimens more boldly marked than others. We also note from our field observations in the Chaco region that the extent of barring on the underparts is highly variable. We take the conservative action of considering all Paraguayan specimens to belong to *T. d. radiatus* (which has a Paraguayan type locality) and suggest that a review of the validity of *T. d. cadwaladeri* is desirable.

Variable Antshrike

Thamnophilus caerulescens Vieillot, 1816
(11)

ssp. *caerulescens* Vieillot, 1816

MHNG 1725,064 ♂i (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1725,065 ♀ (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 6 APR 1985. Skin.

MHNG 1725,070 ♂ (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) AUG 1989. Skin.

ssp. *paraguayensis* Hellmayr, 1904

MHNG 1725,066 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 2 AUG 1985. Skin.

MHNG 1725,067 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.

MHNG 1725,068 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.

MHNG 1725,069 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.

MHNG 1725,071 ♂ (CON) Estancia Santa

Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 5 OCT 1989. Skin.

MHNG 1762,003 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (C. Vaucher & A. de Chambrier) 18 OCT 1991. Skin.

MHNG 1762,004 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (C. Vaucher & A. de Chambrier) 18 OCT 1991. Skin.

MHNG 1762,005 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (C. Vaucher & A. de Chambrier) 19 OCT 1991. Skin.

Plain Antvireo

Dysithamnus mentalis (Temminck, 1823) (1)
ssp. *mentalis* (Temminck, 1823)

MHNG 1608,097 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 11 OCT 1978. Skin.

Conopophagidae

(1 species)

^{AF}Rufous Gnateater

Conopophaga lineata (Wied, 1831) (1)
ssp. *vulgaris* Ménétries, 1835

MHNG 1725,072 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 JAN 1983. Skin.

Furnariidae

(29 species)

Olivaceous Woodcreeper

Sittasomus griseicapillus (Vieillot, 1818) (3)

MHNG 1760,067 Un (APY) Estancia Laguna General Díaz (No collector) 22 NOV 1987. Skin. Specimen missing.

ssp. *griseicapillus* (Vieillot, 1818)

MHNG 1724,042 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

ssp. *sylviellus* (Temminck, 1821)

MHNG 1724,043 Un (APA) 30 km nord-est

de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) AUG 1989. Skin.

Planalto Woodcreeper

Dendrocolaptes platyrostris Spix, 1824 (6)
ssp. *platyrostris* Spix, 1824

MHNG 1495,077 ♂ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 22 OCT 1977. Skin.

MHNG 1630,091 Un (APA) Río Itabó-Guazú (4 km Embouchure) (No collector) 5 NOV 1979. Skin.

MHNG 1724,048 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1724,049 Un (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) JUL 1989. Skin.

ssp. *intermedius* Berlepsch, 1883

MHNG 1732,067 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1985. Skin.

MHNG 1762,002 ♀ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 18 OCT 1991. Skin.

The two specimens from CON (MHNG 1732,067 and 1762,002) are assigned to the subspecies *D. p. intermedius* on the basis of more rufous upperparts, a less streaked back and a browner base colour to the crown. MHNG 1630,091 is the host cited as Py.539 in the parasitological paper by Georgiev & Vaucher (2001).

White-throated Woodcreeper

Xiphocolaptes albicollis (Vieillot, 1818) (1)
ssp. *albicollis* (Vieillot, 1818)

MHNG 1495,076 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 22 AUG 1977. Skin.

This locality is certainly erroneous. There are two specimen labels, a printed label

giving the data as cited above. A second hand written label contains the locality “Presidente Stroesser” (APA) which has been crossed out and replaced with “Filadelfia (sic), Chaco” as well as a different collection date of 8 APR 1977 (which has also been altered from an unreadable original, possibly to coincide with other specimens collected at that locality). There are no records of this species from the Paraguayan Chaco and the dry habitat there is completely unsuited to this humid forest species. Vagrancy is highly unlikely in this sedentary species, and in fact other specimens collected by C. Dlouhy during August 1977 are from Alto Paraná department. The specimen surely originates from there.

^{CH}Great Rufous Woodcreeper

Xiphocolaptes major (Vieillot, 1818) (4)
ssp. *major* (Vieillot, 1818)

MHNG 1495,075 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1724,045 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1724,046 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1724,047 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

The four specimens show considerable variation in size, colouration and overall patternation that exceeds the published variation for subspecies. MHNG 1724,047 is extremely pale-headed, contrasting notably with the rufous lower underparts, and with only slight streaking on the breast. MHNG 1724,045 and MHNG 1724,046 are strongly rufous below, with a contrasting paler throat and heavy pale streaking on the breast that extends more lightly to the belly. MHNG 1495,075 on the other hand is generally pale on the throat and underparts, more rufous at the

sides, and with indistinct darker barring on the breast and belly (the breast also with long pale streaks). Subspecific limits are require review.

Red-billed Scythebill

Campylorhamphus trochilirostris
(Lichtenstein, 1820) (11)

ssp. *lafresnayanus* (d’Orbigny, 1846)

MHNG 1724,071 Un (BOQ) Route Transchaco au km 702 (C. Dlouhy) 28 AUG 1984. Skin. Bill broken.

MHNG 1724,072 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1724,073 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.

MHNG 1724,074 ♀ (CON) Embouchure Río Aquidabán (No collector) 12 OCT 1988. Skin.

MHNG 1724,075 Un (CON) Embouchure Río Aquidabán (No collector) 12 OCT 1988. Skin.

MHNG 1724,076 ♂ (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Mounted.

MHNG 1724,077 ♂ (ÑEE) 18 km est de San Lorenzo (No collector) 16 OCT 1987. Skin. Bill broken.

MHNG 1724,078 Un (ÑEE) 18 km est de San Lorenzo (No collector) 16 OCT 1987. Skin.

MHNG 1724,079 ♂ (ÑEE) 18 km est de San Lorenzo (No collector) 17 OCT 1988. Skin.

MHNG 1732,066 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Mounted.

MHNG 1808,058 Un (BOQ/APY) 8 km Fortín Teniente Montanía (C. Dlouhy) 23 NOV 1993. Skin.

Theoretically two subspecies occur in the region covered by these specimens, with *C. t. lafresnayanus* in the Cerrado and Chaco and *C. t. hellmayri* in ÑEE which are distinguished

largely based on morphometric characters. We note considerable variation in this sample, but were unable to confidently associate it with geographical distribution or described subspecies. We tentatively assign them all to *C. t. lafresnayanus*, the name which pertains to the more widespread subspecies and which has date priority.

^{CH}Scimitar-billed Woodcreeper

Drymornis bridgesii (Eyton, 1849) (1)

MHNG 1724,044 Un (BOQ) 40 km ouest Fortín Teniente Agripino Enciso (C. Dlouhy) 30 AUG 1984. Skin.

Narrow-billed Woodcreeper

Lepidocolaptes angustirostris (Vieillot, 1818)
(26)

ssp. *angustirostris* (Vieillot, 1818)

MHNG 1629,036 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1724,050 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 COT 1982. Skin.

MHNG 1724,051 Un (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1724,052 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1724,053 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 17 OCT 1982. Skin.

MHNG 1724,054 ♂ (MIS) Panchito López (C. Dlouhy) 22 OCT 1982. Skin.

MHNG 1724,061 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 25 OCT 1986. Skin.

MHNG 1724,062 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 20 OCT 1986. Skin.

MHNG 1724,066 Un (CON) Embouchure Río

Aquidabán (No collector) 11 OCT 1988. Skin.

MHNG 1724,067 Un j (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.

MHNG 1724,069 Un (PAR) Lago Ypoá, Estancia Monitor (C. Dlouhy) 26 NOV 1988. Skin.

ssp. *angustirostris* (Vieillot, 1818) >
praedatus (Cherrie, 1916)

MHNG 1724,068 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

ssp. *praedatus* (Cherrie, 1916)

MHNG 1939,042 Un (ÑEE) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

ssp. *certhiolus* (Todd, 1913)

MHNG 1495,078 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 15 APR 1977. Skin.

MHNG 1724,055 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (C. Dlouhy) 21 APR 1984. Skin.

MHNG 1724,056 Un (BOQ) 40 km ouest Fortín Teniente Agripino (sic) Enciso (C. Dlouhy) 16 AUG 1984. Skin.

MHNG 1724,057 Un (BOQ) 40 km ouest Fortín Teniente Agripino (sic) Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1724,058 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 4 JUL 1985. Skin.

MHNG 1724,059 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

MHNG 1724,060 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 11 OCT 1986. Skin.

MHNG 1724,063 ♂ (APY) Estancia Laguna

- General Díaz (No collector) 20 NOV 1987. Skin.
- MHNG 1724,064 Unj (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.
- MHNG 1724,065 Un (APY) Estancia Laguna General Díaz (No collector) 20 NOV 1987. Skin.
- MHNG 1732,071 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Alcohol.
- MHNG 1808,061 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.
- MHNG 1808,062 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.
- The field numbers cited by Georgiev & Vaucher (2001) parasitology paper correspond to the following specimens: Py.3588 = MHNG 1724,055; Py.4834 = MHNG 1724,060 and Py.8837 = MHNG 1808,062.
- Scaled Woodcreeper**
- Lepidocolaptes squamatus* (Lichtenstein, 1822) (1)
- ssp. *falcinellus* (Cabanis & Heine, 1860)
- MHNG 1724,070 Un (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- The Atlantic Forest endemic subspecies *L. s. falcinellus* (Cabanis & Heine, 1860) is sometimes split as a distinct species.
- Rufous Hornero**
- Furnarius rufus* (Gmelin, 1788) (31)
- ssp. *paraguayae* Cherrie & Reichenberger, 1921
- MHNG 1489,099 ♂ (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 3 NOV 1976. Skin.
- MHNG 1608,078 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 3 NOV 1976. Skin.
- MHNG 1629,034 Un (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1629,037 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1629,043 ♀ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1724,080 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.
- MHNG 1724,081 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1724,082 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1724,083 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.
- MHNG 1724,084 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1724,085 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1724,086 ♂ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 28 OCT 1983. Mounted.
- MHNG 1724,087 Un (PHA) Route Transchaco au km 310, Río Verde (C. Dlouhy) 3 FEB 1984. Skin.
- MHNG 1724,088 Un (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 30 AUG 1984. Skin.
- MHNG 1724,089 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 15 MAR 1985. Skin.
- MHNG 1724,090 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector)

- 15 MAR 1985. Skin.
 MHNG 1724,091 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 15 MAR 1985. Skin.
 MHNG 1724,092 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 15 MAR 1985. Skin.
 MHNG 1724,093 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.
 MHNG 1724,094 Un (CEN) Tobatí (No collector) 20 MAR 1985. Skin.
 MHNG 1724,095 Un (CEN) Tobatí (No collector) 20 MAR 1985. Skin.
 MHNG 1724,096 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.
 MHNG 1724,097 Un (PAR) Caballero (No collector) 24 MAR 1985. Skin.
 MHNG 1724,098 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 30 JUL 1985. Skin.
 MHNG 1724,099 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.
 MHNG 1724,100 ♀ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.
 MHNG 1725,001 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 28 OCT 1988. Skin.
 MHNG 1725,002 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 4 NOV 1988. Skin.
 MHNG 1725,003 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
 MHNG 1732,080 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Alcohol.
 MHNG 1939,043 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

Paraguayan specimens are traditionally attributed to *F. r. paraguayae* Cherrie &

Reichenberger, 1921. We are unable to identify clear geographical variation in this sample, however there are some observable tendencies. Specimens from APY are pale below and more strongly rufous on the wings and tail and possibly tend towards *F. r. commersoni*. Paler greyer underparts are also seen in most specimens from BOQ and ÑEE, but these do not show notably more reddish upperparts and are perhaps transitional forms. Specimens from PHA are not notably different from those of most of eastern Paraguay, with warm buff on the breast and flanks and a whiter vent and these are probably typical *F. r. paraguayae*. Specimens from AMA are also rather pale and greyish below but not notably more reddish than other specimens above (including on the forehead or nape) and may be tending towards *F. r. rufus* (Gmelin, 1788).

^{CH}Crested Hornero

Furnarius cristatus Burmeister, 1888 (6)

- MHNG 1725,004 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 4 JUL 1985. Skin.
 MHNG 1725,005 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.
 MHNG 1725,006 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.
 MHNG 1725,007 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 2 AUG 1985. Skin.
 MHNG 1808,063 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunké) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.
 MHNG 1808,064 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunké) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

Sharp-tailed Streamcreeper

Lochmias nematura (Lichtenstein, 1823) (4)

ssp. *nematura* (Lichtenstein, 1823)

MHNG 1725,045 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1725,046 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 3 NOV 1983. Skin.

MHNG 1725,047 Un (COR) Salto Pirareta (No collector) 26 MAR 1985. Skin.

MHNG 1725,048 Un (PAR) Caballero (No collector) 26 MAR 1985. Skin.

Buff-fronted Foliage-Gleaner

Dendroma rufa (Vieillot, 1818) (1)

ssp. *rufa* (Vieillot, 1818)

MHNG 1630,089 ♂ (APA) Río Itabó-Guazú (4 km Embouchure) (No collector) 4 NOV 1979. Skin.

^{AF}Ochre-breasted Foliage-Gleaner

Anabacerthia lichtensteini (Cabanis & Heine, 1859) (2)

MHNG 1495,081 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 22 AUG 1977. Skin.

MHNG 1725,043 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) JUL 1989. Skin.

Buff-browed Foliage-Gleaner

Syndactyla rufosuperciliata (Lafresnaye, 1832) (1)

ssp. *rufosuperciliata* (Lafresnaye, 1832)

MHNG 1725,042 Un (APA) Río Monday, 10 km sud de Ciudad del Este (C. Dlouhy) 19 OCT 1994. Skin.

We tentatively assign this specimen to the nominate subspecies on the basis of the rufescent tinge to the wings and rump and somewhat diffuse streaking on the rather pale underparts.

Russet-mantled Foliage-Gleaner

Syndactyla dimidiata (Pelzeln, 1859) (1)

MHNG 1762,009 ♀ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 18 OCT 1991. Skin.

Chestnut-capped Foliage-Gleaner

Clibanornis rectirostris (Wied, 1831) (3)

MHNG 1725,034 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1725,044 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 20 OCT 1985. Skin.

MHNG 1762,013 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 24 OCT 1991. Skin.

^{AF}White-eyed Foliage-Gleaner

Automolus leucophthalmus (Wied, 1821) (1)

ssp. *sulphurascens* (Lichtenstein, 1823)

MHNG 1608,095 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 9 OCT 1978. Skin.

Rufous-fronted Thornbird

Phacellodomus rufifrons (Wied, 1821) (1)

ssp. *sincipitalis* Cabanis, 1883

MHNG 1725,033 Un (CON) Embouchure Río Aquidabán (C. Dlouhy) 13 OCT 1988. Skin.

Greater Thornbird

Phacellodomus ruber (Vieillot, 1817) (7)

MHNG 1490,006 ♀ (CEN) Colonia Thompson, 10 km sud San Lorenzo (C. Dlouhy) 3 NOV 1976. Skin.

MHNG 1725,028 ♂ (PHA) 25 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1725,029 Un (PHA) Route Transchaco au km 149 (C. Dlouhy) 26 DEC 1983. Skin.

MHNG 1725,030 Un (PHA) Route Transchaco au km 50 (No collector) 24 OCT 1988. Skin.

MHNG 1725,031 Un (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 29 SEP 1989. Skin.

MHNG 1725,032 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1808,065 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

Firewood-Gatherer

Anumbius annumbi (2)

MHNG 1725,039 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1725,040 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

Lark-like Brushrunner

Coryphistera alaudina Burmeister, 1860 (8)

MHNG 1495,079 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1495,080 ♀ (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1725,035 Un (PHA) Route Transchaco au km 310, Río Verde (C. Dlouhy) 3 FEB 1985. Skin.

MHNG 1725,036 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.

MHNG 1725,037 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 SEP 1988. Skin.

MHNG 1725,038 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 4 NOV 1988. Skin.

MHNG 1808,059 Un (None) No locality (C. Dlouhy) No date. Skin.

MHNG 1808,060 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

We follow Contreras (1980) in considering the proposed subspecies *C. a. campicola* Todd, 1915 to represent an extreme of clinal variation.

Stripe-crowned Spinetail

Cranioleuca pyrrhophia (Vieillot, 1818) (1)

ssp. *pyrrhophia* (Vieillot, 1818)

MHNG 1808,066 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 15 AUG 1996. Skin.

Brown Cacholote

Pseudoseisura lophotes (Reichenbach, 1853)

(1)

ssp. *lophotes* (Reichenbach, 1853)

MHNG 1725,041 Un (BOQ) Route Transchaco au km 702 (C. Dlouhy) 30 AUG 1984. Skin.

Yellow-chinned Spinetail

Certhiaxis cinnamomeus (Gmelin, 1788) (14)

ssp. *russeolus* (Vieillot, 1817)

MHNG 1725,018 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

MHNG 1725,019 Un (PHA) Route Transchaco au km 80 (No collector) No date. Skin.

MHNG 1725,020 Un (PHA) Route Transchaco au km 80 (No collector) No date. Skin.

MHNG 1725,021 ♀ (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 17 OCT 1985. Skin.

MHNG 1725,022 ♂ (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 12 NOV 1985. Skin.

MHNG 1725,023 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1725,024 Un (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

MHNG 1725,025 Un (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

MHNG 1725,026 Un (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

MHNG 1725,027 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 17 OCT 1989. Skin.

MHNG 1762,010 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 4 NOV 1991. Skin.

MHNG 1762,011 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

MHNG 1762,012 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

MHNG 1939,044 Un (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Skin.

Chotoy Spinetail

Schoeniophylax phryganophilus (Vieillot, 1817) (4)

ssp. *phryganophilus* (Vieillot, 1817)

MHNG 1725,008 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1725,009 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1725,010 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1725,011 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 18 OCT 1989. Skin.

Grey-bellied Spinetail

Synallaxis cinerascens Temminck, 1823 (3)

MHNG 1725,015 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) JUL 1989. Skin.

MHNG 1725,016 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) MAY 1990. Skin.

MHNG 1725,017 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) MAY 1990. Skin.

^{AF}Rufous-capped Spinetail

Synallaxis ruficapilla Vieillot, 1819 (1)

MHNG 1725,013 Un (APA) Río Itabó-Guazú (C. Dlouhy) AUG 1989. Skin.

Austral Spinetail

Synallaxis australis Zimmer 1935

MHNG 1725,014 Un (PHA) Río Sombrero-Piri, km 316 Transchaco (C. Dlouhy) 23 APR 1984. Skin.

Sooty-fronted Spinetail

Synallaxis frontalis Pelzeln, 1859 (1)

MHNG 1725,012 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 25 OCT 1986. Skin. Missing tail.

Tyrannidae

(50 species)

Grey Elaenia

Myiopagis caniceps (Swainson, 1835) (1)

ssp. *caniceps* (Swainson, 1835)

MHNG 1725,083 ♀ (APA) Río Acaray, 30 km ouest Ciudad del Este (C. Dlouhy, C. Weber) 31 OCT 1986. Skin.

Greenish Elaenia

Myiopagis viridicata (Vieillot, 1817) (3)

ssp. *viridicata* (Vieillot, 1817)

MHNG 1635,006 Un (APA) Río Itabó-Guazú (4 km Embouchure) (F. Baud, C. Dlouhy, V. Mahnert, J.-L. Perret, C. Vaucher) 5 NOV 1979. Skin.

MHNG 1725,084 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (C. Dlouhy, C. Weber, B. Jacquet) 2 NOV 1983. Skin.

MHNG 1725,085 Un (CON) Arroyo Allegre (5 km E de Estancia Primavera) (C. Vaucher & A. de Chambrier) 10 OCT 1989. Skin.

Yellow-bellied Elaenia

Elaenia flavogaster (Thunberg, 1822) (14)

ssp. *flavogaster* (Thunberg, 1822)

MHNG 1629,047 ♀ (CON) Puente Zinho, Colonia Sgto José E. Lopez (No collector) 14 OCT 1979. Skin.

MHNG 1630,078 Un (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

- MHNG 1725,086 Un (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.
- MHNG 1725,088 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1725,089 ♀ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1725,090 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 27 OCT 1982. Skin.
- MHNG 1725,092 ♂ (ITA) 4 km amont Salto Tembey (No collector) 2 NOV 1982. Skin.
- MHNG 1725,093 Un (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.
- MHNG 1725,094 Un (CON) Estancia Laguna Negra, 15 km est Paso Barreto (No collector) 18 OCT 1983. Skin.
- MHNG 1725,095 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.
- MHNG 1725,096 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.
- MHNG 1725,097 ♀ (SPE) Río Jejui-Guazú, Rte N° 3 (No collector) 9 OCT 1985. Skin.
- MHNG 1725,098 ♂ (SPE) Río Jejui-Guazú, Rte N° 3 (No collector) 9 OCT 1985. Skin.
- MHNG 1725,099 ♂ (ÑEE) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 19 OCT 1989. Skin.
- Large Elaenia**
Elaenia spectabilis (Pelzeln, 1868) (11)
- MHNG 1608,071 ♂ (CAN) Río Carapá (C. Dlouhy) 18 OCT 1978. Skin.
- MHNG 1725,087 ♀ (MIS) Panchito Lopez (No collector) 23 OCT 1982. Skin.
- MHNG 1725,100 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.
- MHNG 1726,001 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 25 OCT 1986. Skin.
- MHNG 1726,002 Un (CON) Embouchure Río Aquidabán (No collector) 12 OCT 1988. Skin.
- MHNG 1726,003 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.
- MHNG 1726,004 Un (CON) Estancia Santa Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 5 OCT 1989. Skin.
- MHNG 1726,005 Un (CON) Estancia Santa Sofia (Estancia Sofia) (C. Vaucher & A. de Chambrier) 5 OCT 1989. Skin.
- MHNG 1726,006 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1726,007 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.
- MHNG 1726,008 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.
- White-crested Elaenia**
Elaenia albiceps (Lafresnaye & d'Orbigny, 1837) (4)
ssp. *chilensis* Hellmayr, 1927
- MHNG 1726,018 Un (APA) 30 km nord-est de Santa Fe del Paraná, ex Río Itabó-Guazú (C. Dlouhy) MAY 1990. Skin.
- MHNG 1762,031 ♂ (CON) Arroyo Trementina (No collector) 12 OCT 1991. Skin.
- MHNG 1762,032 ♀ (CON) Estancia Primavera (No collector) 18 OCT 1991. Skin.
- MHNG 1762,033 ♀ (CON) Estancia Primavera (No collector) 18 OCT 1991. Skin.

Small-billed Elaenia*Elaenia parvirostris* (Pelzeln, 1868) (14)

MHNG 1630,051 Un (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.

MHNG 1725,091 Un (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1726,009 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 27 OCT 1982. Skin.

MHNG 1726,010 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 27 OCT 1982. Skin.

MHNG 1726,011 ♀ (ITA) 10 km au sud Estancia Santa María (No collector) 27 OCT 1982. Skin.

MHNG 1726,012 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 28 OCT 1983. Skin.

MHNG 1726,013 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 10 OCT 1986. Skin.

MHNG 1726,014 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 26 OCT 1986. Skin.

MHNG 1726,015 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 26 OCT 1986. Skin.

MHNG 1726,016 Un (APY) Estancia Laguna General Díaz (No collector) 18 NOV 1987. Skin.

MHNG 1726,017 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1732,068 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1939,050 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

MHNG 1939,048 Un (SPE) Río Jejui-Guazú, Rte N° 3 (No collector) 7 OCT 1985. Skin.

Southern Beardless-Tyrannulet*Camptostoma obsoletum* (Temminck, 1824)

(3)

ssp. *obsoletum* (Temminck, 1824)

MHNG 1629,029 ♂ (CON) Arroyo Azotey, rte N° 3 à 10 km au nord de Cororo (No collector) 10 OCT 1982. Skin.

MHNG 1725,073 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta) (C. Dlouhy) 7 JUN 1984. Skin.

MHNG 1725,074 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.

Suiriri Flycatcher*Suiriri suiriri* (Vieillot, 1818) (6)ssp. *suiriri* (Vieillot, 1818)

MHNG 1608,100 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 27 AUG 1978. Skin.

MHNG 1725,079 Un (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 3 FEB 1984. Skin.

MHNG 1725,080 Un (BOQ) 40 km ouest Fortín Teniente Agripino (sic) Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1725,081 Un (PHA) Chaco-í (F. Baud, C. Dlouhy, V. Mahnert) 18 MAR 1985. Skin.

MHNG 1725,082 Un (PHA) Route Transchaco au km 293, Estancia Apendice (F. Baud, C. Dlouhy, V. Mahnert) 3 NOV 1988. Skin.

MHNG 1808,070 Un (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 1 AUG 1994. Skin.

Sooty Tyrannulet*Serpophaga nigricans* (Vieillot, 1817) (1)

MHNG 1762,034 ♂ (ÑEE) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 10 OCT 1985. Skin.

collector) 6 NOV 1991. Skin.

Straneck's Tyrannulet

Serpophaga griseicapilla (6)

MHNG 1608,099 Un (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 20 AUG 1978. Skin.

MHNG 1808,076 Un (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 1 AUG 1994. Skin.

MHNG 1808,077 Un (None) No locality (C. Dlouhy) No date. Skin.

MHNG 1808,078 Un (PHA) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 11 AUG 1996. Skin.

None of these specimens show any white in the crown.

White-crested Tyrannulet

Serpophaga subcristata (3)

MHNG 1808,074 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1808,075 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1937,035 Un (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 1 AUG 1994. Skin.

All of these specimens show white in the crown. MHNG 1937,035 is of the White-bellied form, sometimes assigned to the subspecies *S. s. munda* Berlepsch, 1893

Mouse-coloured Tyrannulet

Phaeomyias murina (Spix, 1825) (5)
ssp. *murina* (Spix, 1825)

MHNG 1725,075 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 13 OCT 1983. Skin.

MHNG 1725,076 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

MHNG 1725,077 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1725,078 ♂ (CON) 11 km à l'est de l'Estancia San Luis de la Sierra (C. Vaucher & A. de Chambrier) 3 OCT 1989. Skin.

MHNG 1762,038 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 19 OCT 1991. Skin.

Yellow Tyrannulet

Capsiempis flaveola (Lichtenstein, 1823) (1)
ssp. *flaveola* (Lichtenstein, 1823)

MHNG 1726,024 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 28 AUG 1984. Skin.

Bearded Tachuri

Polystictus pectoralis^{NT} (Vieillot, 1817) (2)
ssp. *pectoralis* (Vieillot, 1817)

MHNG 1726,022 ♀ (PHA) Pozo Colorado, 20 km est (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1726,023 ♂ (PHA) Pozo Colorado, 20 km est (C. Vaucher & A. de Chambrier) 29 SEP 1989. Skin.

Southern Antpipit

Corythopsis delalandi (Lesson, 1830) (1)

MHNG 1732,070 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

Greater Wagtail-Tyrant

Stigmatura budytoides (Lafresnaye & d'Orbigny, 1837) (2)
ssp. *inzonata* Wetmore & Peters, 1923

MHNG 1726,020 Un (BOQ) 40 km ouest Fortín Tte Agripino Enciso Transchaco km 702 (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1726,021 Un (BOQ) 40 km ouest Fortín Tte Agripino Enciso Transchaco km 702 (C. Dlouhy) 30 AUG 1984. Skin.

Mottle-cheeked Tyrannulet

Phylloscartes ventralis (Temminck, 1824) (1)
ssp. *ventralis* (Temminck, 1824)

MHNG 1726,019 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) DEC 1989. Skin.

Sepia-capped Flycatcher

Leptopogon amaurocephalus Tschudi, 1846
(8)

ssp. *amaurocephalus* Tschudi, 1846

MHNG 1726,025 ♀ (MIS) Panchito Lopez (No collector) 24 OCT 1982. Skin.

MHNG 1726,026 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1726,027 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1726,028 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1726,029 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1726,030 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 2 NOV 1983. Skin.

MHNG 1762,036 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 25 OCT 1991. Skin.

MHNG 1762,037 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 25 OCT 1991. Skin.

^{AF}Drab-breasted Pygmy-Tyrant

Hemitriccus diops (Temminck, 1822) (1)

MHNG 1608,096 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 11 OCT 1978. Skin.

Pearly-vented Tody-Tyrant

Hemitriccus margaritaceiventer (Lafresnaye & d'Orbigny, 1837) (15)

ssp. *margaritaceiventer* (Lafresnaye & d'Orbigny, 1837)

MHNG 1609,001 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 28 AUG 1978. Skin.

MHNG 1635,005 Un (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1726,031 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1726,032 Un (MIS) Panchito Lopez (No collector) 23 OCT 1982. Skin.

MHNG 1726,033 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1726,034 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 11 OCT 1986. Skin.

MHNG 1726,035 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1726,036 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

MHNG 1726,037 Un (PHA) Pozo Colorado, 20 km est (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1726,038 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1726,039 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1762,035 ♂ (CON) Estancia Primavera (No collector) 17 OCT 1991. Skin.

MHNG 1808,079 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunké)

Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.
MHNG 1937,036 Un (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 3 AUG 1994. Skin.

MHNG 1939,051 Un (BOQ) Estancia La Conquista, Pratt's Gill (No collector) 11 OCT 1986. Skin.

Common Tody-Flycatcher

Todirostrum cinereum (Linnaeus, 1766) (1)
ssp. *coloreum* Ridgway, 1906

MHNG 1726,040 Un (APY) Estancia Laguna General Díaz (No collector) 22 NOV 1987. Skin.

Yellow-olive Flycatcher

Tolmomyias sulphurescens (Spix, 1825) (5)
ssp. *sulphurescens* (Spix, 1825)

MHNG 1726,041 ♀ (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.

MHNG 1726,042 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1726,043 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1726,044 Un (CON) Embouchure Río Aquidabán (No collector) 14 OCT 1988. Skin.

MHNG 1762,023 Un (CON) Estancia Primavera (No collector) 19 OCT 1991. Skin.

White-throated Spadebill

Platyrinchus mystaceus Vieillot, 1818 (4)
ssp. *mystaceus* Vieillot, 1818

MHNG 1726,045 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 12 OCT 1983. Skin.

MHNG 1726,046 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1985. Skin.

MHNG 1762,024 ♂ (CON) Estancia Primavera

(No collector) 19 OCT 1991. Skin.

MHNG 1762,025 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1991. Skin.

Bran-coloured Flycatcher

Myiophobus fasciatus (Müller, 1776) (3)
ssp. *flammeiceps* (Temminck, 1822)

MHNG 1630,076 ♂ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1726,047 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.

MHNG 1726,048 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.

Cliff Flycatcher

Hirundinea ferruginea (J.F. Gmelin, 1788) (3)
ssp. *bellicosa* (Vieillot, 1819)

MHNG 1726,081 Un (CEN) Tobatí (C. Dlouhy) 28 DEC 1983. Skin.

MHNG 1726,082 Un (CEN) Tobatí (No collector) 20 MAR 1985. Skin.

MHNG 1726,083 Un (CEN) Tobatí (No collector) 23 SEP 1989. Skin.

Euler's Flycatcher

Aphanotriccus euleri (Cabanis, 1868) (3)
ssp. *euleri* (Cabanis, 1868)

MHNG 1608,094 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (A. Colman) 23 SEP 1978. Skin.

MHNG 1762,026 ♂ (CON) Arroyo Alegre (5 km E de Estancia Primavera) (No collector) 17 OCT 1991. Skin.

MHNG 1762,027 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 24 OCT 1991. Skin.

Whistling Fuscous-Flycatcher

Cnemotriccus fuscatus (Wied, 1831) (14)
ssp. "*bimaculatus*" (d'Orbigny & Lafresnaye, 1837)

MHNG 1726,049 Un (GUA) Arroyo Ovie, 10

- km sud Villarica (No collector) 27 OCT 1983. Skin.
- MHNG 1726,050 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 27 OCT 1983. Skin.
- MHNG 1726,051 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 28 OCT 1983. Skin.
- MHNG 1726,052 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.
- MHNG 1726,053 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.
- MHNG 1726,054 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.
- MHNG 1726,055 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.
- MHNG 1726,056 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1726,057 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1726,058 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 26 OCT 1986. Skin.
- MHNG 1762,028 ♂ (CON) Estancia Primavera (No collector) 18 OCT 1991. Skin.
- MHNG 1762,029 ♂ (CON) Estancia Primavera (No collector) 18 OCT 1991. Skin.
- MHNG 1762,030 Un (CON) Estancia Primavera (No collector) 18 OCT 1991. Skin.
- MHNG 1939,049 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 25 OCT 1986. Skin.

The name used for Paraguayan populations here is provisional (as it is the name that has been traditionally applied), but may not in fact be correct.

Vermilion Flycatcher

Pyrocephalus rubinus (Boddaert, 1783) (9)
ssp. *rubinus* (Boddaert, 1783)

- MHNG 1726,059 ♂ (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 28 AUG 1984. Skin.
- MHNG 1726,060 ♂ (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 3 FEB 1984. Skin.
- MHNG 1726,061 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.
- MHNG 1726,062 Un j (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 6 NOV 1985. Skin.
- MHNG 1726,063 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Mounted.
- MHNG 1726,064 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.
- MHNG 1726,065 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.
- MHNG 1726,066 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1808,073 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 12 AUG 1996. Skin.

^{CH}Cinereous Tyrant

Knipolegus straticiceps (Lafresnaye & d'Orbigny, 1837) (2)

- MHNG 1726,074 ♂ (BOQ) Route Transchaco au km 702, Fortín Teniente Agripino Enciso (C. Dlouhy) 30 AUG 1984. Skin.
- MHNG 1937,033 ♀ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 1 AUG 1984. Skin.

Spectacled Tyrant

Hymenops perspicillatus (Gmelin, 1789) (3)
 ssp. *perspicillatus* (Gmelin, 1789)

MHNG 1726,075 ♀ (PHA) Aguadulce, Parc national Defensores del Chaco (C. Vaucher & A. de Chambrier) 29 SEP 1989. Skin.

MHNG 1762,021 ♀ (CON) Piquete-Cué (C. Dlouhy) 7 NOV 1991. Skin.

MHNG 1762,022 ♂ (ÑEE) à 2 km ouest d'Estancia Laguna General Díaz (C. Dlouhy) 5 NOV 1991. Skin.

Yellow-browed Tyrant

Satrapa icterophrys (Vieillot, 1818) (3)

MHNG 1726,078 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta) (C. Dlouhy) 7 JUN 1984. Skin.

MHNG 1726,079 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta) (C. Dlouhy) 7 JUN 1984. Skin.

MHNG 1726,080 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 17 OCT 1989. Skin.

Grey Monjita

Nengetus cinereus (Vieillot, 1816) (1)
 ssp. *cinereus* (Vieillot, 1816)

MHNG 1726,067 Un (PHA) Route Transchaco au km 310, Río Salado-i (C. Dlouhy) 6 FEB 1984. Skin.

White Monjita

Xolmis irupero (Vieillot, 1823) (6)
 ssp. *irupero* (Vieillot, 1823)

MHNG 1726,068 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1726,069 Un (PHA) Route Transchaco au km 95 (C. Dlouhy) 3 JUL 1985. Skin.

MHNG 1726,070 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

MHNG 1726,071 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector)

2 NOV 1988. Mounted.

MHNG 1726,072 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1726,073 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

Black-backed Water-Tyrant

Fluvicola albiventer (Spix, 1825) (8)

MHNG 1608,090 ♀ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 20 AUG 1978. Skin.

MHNG 1726,084 Un (PHA) Route Transchaco au km 115 (No collector) 24 OCT 1988. Skin.

MHNG 1726,085 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1726,086 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Mounted.

MHNG 1726,087 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1726,088 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (No collector) 5 NOV 1988. Skin.

MHNG 1808,071 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1808,072 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

Long-tailed Tyrant

Colonia colonus (Vieillot, 1818) (2)
 ssp. *colonus* (Vieillot, 1818)

MHNG 1726,076 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (No collector) 13 AUG 1984. Skin.

MHNG 1726,077 ♀ (CON) Arroyo Alegre, 5 km ouest de Estancia Primavera (C. Vaucher

& A. de Chambrier) 9 OCT 1989. Skin.

Cattle Tyrant

Machetornis rixosa (Vieillot, 1819) (8)
ssp. *rixosa* (Vieillot, 1819)

MHNG 1495,084 ♀j (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1726,089 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1726,090 Un (PHA) 15 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 8 OCT 1989. Skin.

MHNG 1726,091 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1726,092 Un (PHA) Route Transchaco au km 310 (C. Dlouhy) 3 FEB 1984. Skin.

MHNG 1726,093 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

MHNG 1726,094 Un (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1762,018 Un (ÑEE) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

Piratic Flycatcher

Legatus leucophaeus (Vieillot, 1818) (1)
ssp. *leucophaeus* (Vieillot, 1818)

MHNG 1762,017 Un (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 17 OCT 1991. Skin.

Social Flycatcher

Myiozetetes similis (Spix, 1825) (1)
ssp. *pallidiventrtris* Pinto, 1935

MHNG 1727,032 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.

Great Kiskadee

Pitangus sulphuratus (Linnaeus, 1766) (23)
ssp. *argentinus* Todd, 1952

MHNG 1608,065 ♀ (APA) Centro Forestal

Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.

MHNG 1629,025 Un (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

MHNG 1630,065 Un (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.

MHNG 1727,015 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1727,016 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1727,017 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1727,018 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1727,019 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1727,020 ♂ (MIS) Panchito Lopez (C. Dlouhy) 24 OCT 1982. Skin.

MHNG 1727,021 Un (PHA) 25 km est de Pozo Colorado (No collector) 7 OCT 1983. Skin.

MHNG 1727,022 Un (PHA) 25 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1727,023 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 16 OCT 1983. Skin.

MHNG 1727,024 Un (CON) Estancia Laguna Negra (No collector) 19 OCT 1983. Skin.

MHNG 1727,025 Un (CON) Estancia Laguna Negra (No collector) 19 OCT 1983. Skin.

MHNG 1727,026 Un (PHA) Río Montelindo, km 210 Transchaco (C. Dlouhy) 25 MAR 1984. Skin.

MHNG 1727,027 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 25 OCT 1986. Skin.

- MHNG 1727,028 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 26 OCT 1986. Skin.
- MHNG 1727,029 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.
- MHNG 1732,089 Un (CON) Río Ypane, Belen (No collector) 11 OCT 1986. Alcohol.
- MHNG 1762,020 Un (CEN) Villeta (C. Dlouhy) 13 NOV 1987. Skin.
- MHNG 1916,042 Un (CEN) San Lorenzo (C. Dlouhy) 1 MAR 2004. Skin.
- MHNG 1916,043 Un (CEN) San Lorenzo (C. Dlouhy) 20 OCT 2003. Skin.
- MHNG 1939,046 Un (PAR) Caballero (No collector) 25 MAR 1985. Skin.
- We were unable to observe any clear pattern of variation in the sample that is consistent with currently understood subspecies, and assign all specimens to the widespread subspecies *P. s. argentinus* of eastern Paraguay.

Solitary Flycatcher

Myiodynastes solitarius (Vieillot, 1819)

- MHNG 1495,082 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 19 OCT 1977. Skin.
- MHNG 1608,077 ♂ (CAN) Río Carapá (C. Dlouhy) 19 OCT 1978. Skin.
- MHNG 1727,033 Un (CON) Estancia Primavera, 30 km sud Estrellas (No collector) 1 NOV 1987. Skin.
- MHNG 1727,034 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1727,035 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1727,036 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 11 OCT 1982. Skin.
- MHNG 1727,037 ♀ (ÑEE) 5 km nord-ouest de
- Pilar (No collector) 20 OCT 1982. Skin.
- MHNG 1727,038 ♂ (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.
- MHNG 1727,039 ♀ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1727,040 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.
- MHNG 1727,041 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 12 OCT 1983. Skin.
- MHNG 1727,042 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.
- MHNG 1732,085 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 24 OCT 1985. Alcohol.
- MHNG 1762,014 Un (CON) Arroyo Alegre (5 km E de Estancia Primavera) (No collector) 17 OCT 1991. Skin.
- MHNG 1939,045 Un (ITA) (Estancia) Santa María (No collector) 27 OCT 1982. Skin.

Boat-billed Flycatcher

Megarynchus pitangua (Linnaeus, 1766) (2)
ssp. *pitangua* (Linnaeus, 1766)

- MHNG 1727,030 ♂ (MIS) Panchito Lopez (No collector) 22 OCT 1982. Skin.
- MHNG 1727,031 Un (MIS) Panchito Lopez (No collector) 24 OCT 1982. Skin.

Variegated Flycatcher

Empidonomus varius (Vieillot, 1818) (4)
ssp. *varius* (Vieillot, 1818)

- MHNG 1727,043 Un (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1727,044 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 28 OCT 1982. Skin.
- MHNG 1727,045 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 31

OCT 1982. Skin.

MHNG 1762,016 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 22 OCT 1991. Skin.

Crowned Slaty-Flycatcher

Empidonamus aurantioatrocristatus

(Lafresnaye & d'Orbigny, 1837) (3)

ssp. *aurantioatrocristatus* (Lafresnaye & d'Orbigny, 1837)

MHNG 1630,057 Un (CON) Riacho La Paz, 20 km sud Estancia Estrellas (No collector) 17 OCT 1979. Skin. Specimen missing.

MHNG 1727,046 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1727,047 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

Tropical Kingbird

Tyrannus melancholicus Vieillot, 1819 (15)

ssp. *melancholicus* Vieillot, 1819

MHNG 1629,038 Un (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1629,041 ♀ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1727,048 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1727,049 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 17 OCT 1982. Skin.

MHNG 1727,050 ♂ (MIS) Panchito Lopez (No collector) 24 OCT 1982. Skin.

MHNG 1727,051 Un (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.

MHNG 1727,052 ♀ (SPE) Río Jejui-Guazú (No collector) 7 OCT 1985. Skin.

MHNG 1727,053 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 31 OCT 1986. Skin.

MHNG 1727,054 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1727,055 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1727,056 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 5 NOV 1988. Mounted.

MHNG 1727,057 Un (PHA) Río Paraguay, km 640 (No collector) 18 OCT 1988. Skin.

MHNG 1727,058 ♂ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (No collector) 24 OCT 1989. Skin.

MHNG 1732,093 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 10 OCT 1985. Alcohol.

MHNG 1762,019 Un (COR) Arroyo Yacaroya, Caacupé (No collector) 31 OCT 1991. Skin.

Fork-tailed Flycatcher

Tyrannus savana Daudin, 1802 (6)

ssp. *savana* Daudin, 1802

MHNG 651,031 Un No locality (M. Moricand) No date. 2 eggs.

MHNG 1638,027 ♂ (APA) Centro Forestal Alto Paraná), 12 km ouest Ciudad del Este (C. Dlouhy) 4 DEC 1981. Skin.

MHNG 1727,059 ♂ (ITA) CAICISA (Tembey San Rafael) (No collector) 6 NOV 1982. Skin.

MHNG 1727,060 Un (PHA) Route Transchaco au km 310 (No collector) 4 FEB 1984. Skin.

MHNG 1727,061 ♂ (SPE) Río Jejui-Guazú (No collector) 7 OCT 1985. Skin.

MHNG 1732,092 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Mounted.

Sibilant Sirystes

Sirystes sibilator (Vieillot, 1818) (1)
 ssp. *sibilator* (Vieillot, 1818)

MHNG 1762,015 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 17 OCT 1991. Skin.

Rufous Casiornis

Casiornis rufus (Vieillot, 1816) (2)

MHNG 1629,050 ♂ (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.

MHNG 1726,095 Un (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Skin.

Swainson's Flycatcher

Myiarchus swainsoni Cabanis & Heine, 1859 (8)

ssp. *swainsoni* Cabanis & Heine, 1859

MHNG 1630,084 Un (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1727,001 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1982. Skin.

MHNG 1727,002 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1727,003 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1727,005 Un (PHA) Río Paraguay, km 640 (No collector) 18 OCT 1988. Skin.

MHNG 1727,007 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

ssp. *ferocior* Cabanis, 1883

MHNG 1726,100 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

MHNG 1939,047 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María

(No collector) 11 OCT 1983. Skin.

All of the specimens identified as *M. s. swainsoni* had wing to tail ratio < 93 % and the P5 shorter than the P9, following Lanyon (1978).

Short-crested Flycatcher

Myiarchus ferox (J. F. Gmelin, 1789) (8)
 ssp. *australis* Hellmayr, 1927

MHNG 1726,096 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1726,097 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1726,098 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.

MHNG 1726,099 Un (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1727,004 Un (PAR) Caballero (No collector) 24 MAR 1985. Skin.

MHNG 1727,006 Un (COR) Salto Pirareta (No collector) 22 SEP 1989. Skin.

MHNG 1727,008 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

MHNG 1732,075 Un (ITA) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 21 OCT 1985. Alcohol.

All of the specimens identified as *M. f. australis* had wing to tail ratio > 93 % and the P5 equal to or greater than the P9 following Lanyon (1978).

Brown-crested Flycatcher

Myiarchus tyrannulus (Müller, 1776) (7)
 ssp. *tyrannulus* (Müller, 1776)

MHNG 1495,083 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 8 APR 1977. Skin.

MHNG 1727,009 ♂ (PAR) Arroyo Mbaey,

3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1727,010 ♂ (MIS) Panchito Lopez (No collector) 24 OCT 1982. Skin.

MHNG 1727,011 Un (APY) Santo Domingo, 17 km nord de Teniente Montanía (C. Dlouhy) 21 APR 1984. Skin.

MHNG 1727,012 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 11 OCT 1986. Skin.

MHNG 1727,013 Un (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 21 OCT 1987. Skin.

MHNG 1727,014 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Mounted.

Pipridae

(2 species)

^{AF}Swallow-tailed Manakin

Chiroxiphia caudata (Shaw, 1793) (1)

MHNG 1727,077 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

Band-tailed Manakin

Pipra fasciicauda Hellmayr, 1906 (3)

spp. scarlatina Hellmayr, 1927

MHNG 1727,078 ♀ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.

MHNG 1727,079 ♀ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.

MHNG 1727,080 ♂ (APA) Centro Forestal Alto Paraná), 12 km ouest Ciudad del Este (C. Dlouhy) JUL 1989. Skin.

Tityridae

(6 species)

Black-crowned Tityra

Tityra inquisitor (Lichtenstein, 1823) (2)

spp. inquisitor (Lichtenstein, 1823)

MHNG 1727,073 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.

MHNG 1727,074 ♂ (CON) Tagatiya-Guazú, 2 km sud-est Santa María (No collector) 15 OCT 1983. Skin.

Black-tailed Tityra

Tityra cayana (Linnaeus, 1766) (1)

spp. braziliensis Swainson, 1838

MHNG 1630,056 ♀ (CON) Riacho La Paz, 20 km sud Estancia Estrellas (No collector) 17 OCT 1979. Skin.

^{AF}Greenish Schiffornis

Schiffornis virescens (Lafresnaye, 1838) (1)

MHNG 1727,075 Un (APA) Río Itabó-Guazú (C. Dlouhy) AUG 1989. Skin.

Green-backed Becard

Pachyramphus viridis (Vieillot, 1816) (6)

MHNG 1727,062 ♀ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1727,063 ♂ (ITA) 10 km au sud Estancia Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1727,064 ♀ (CON) Estancia Laguna Negra (No collector) 18 OCT 1983. Skin.

MHNG 1727,065 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 11 OCT 1986. Skin.

MHNG 1727,066 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 17 OCT 1989. Skin.

MHNG 1727,067 ♀ (ÑEE) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 19 OCT 1989. Skin.

White-winged Becard

Pachyramphus polychopterus (Vieillot, 1818)
(3)

ssp. *spixi* (Swainson, 1838)

MHNG 1727,068 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 17 OCT 1982. Skin.

MHNG 1727,069 ♂ (ITA) 4 km amont Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1727,070 ♀ (ITA) 4 km amont Salto Tembey (No collector) 2 NOV 1982. Skin.

Crested Becard

Pachyramphus validus (Lichtenstein, 1823)
(4)

ssp. *validus* (Lichtenstein, 1823)

MHNG 1727,071 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1727,072 ♀ (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnación (No collector) 26 OCT 1986. Skin.

MHNG 1762,007 ♀ (CON) Riacho La Paz (No collector) 19 OCT 1991. Skin.

MHNG 1762,008 ♀ (CON) Riacho La Paz (No collector) 17 OCT 1991. Skin.

Incertae sedis

(1 species)

Wing-barred Piprites

Piprites chloris (Temminck, 1822) (2)

ssp. *chloris* (Temminck, 1822)

MHNG 1630,088 Un (APA) Río Itabó-Guazú (4 km Embouchure) (No collector) 4 FEB 1979. Skin.

MHNG 1727,076 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 7 FEB 1983. Skin.

Vireonidae

(2 species)

Rufous-browed Peppershrike

Cyclarhis gujanensis (Gmelin, 1789) (7)

ssp. *ochrocephala* Tschudi, 1845

MHNG 1608,076 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.

MHNG 1731,081 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

ssp. *ochrocephala* Tschudi, 1845 > *viridis* (Vieillot, 1822)

MHNG 1939,056 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 18 OCT 1982. Skin.

ssp. *viridis* (Vieillot, 1822)

MHNG 1731,080 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 18 OCT 1982. Skin.

MHNG 1731,083 Un (PAR) Lago Ypoá, Estancia Monitor (C. Dlouhy) 26 NOV 1989. Skin.

ssp. *tarijae* Bond & Meyer de Schauensee, 1942

MHNG 1731,082 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (C. Dlouhy) 1 AUG 1985. Skin.

ssp. unidentified

MHNG 1808,090 Un (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 2 AUG 1994. Skin.

Oriental region - The APA specimen (MHNG 1608,076) shows a fully rufous crown and near completely yellow underparts and is assigned to *C. v. ochrocephala*. Specimens MHNG 1731,080 (ÑEE) and MHNG 1731,083 (PAR) are typical *C. v. viridis* with a greyish crown. MHNG 1939,056 (ÑEE) appears transitional between *C. v. viridis* and *C. v. ochrocephala*, showing a rufous crown, and restricted yellow on the upper breast closer to *C. v. viridis* in extent.

Chaco region - BOQ specimen MHNG 1731,082 is small, has bright upperparts, a

dull brownish-grey crown and a yellow throat that extends down the sides of the breast, and is tentatively assigned to *C. v. tarijae* of southeastern Bolivia and extreme northwestern Argentina. The other BOQ specimen (MHNG 1808,090) from slightly further north in a more xeric area of Dry Chaco is large, notably whiter below, with only a slight yellow tinge to the upper breast, and with a clear rufous-brown crown like that of *C. v. ochrocephala*. We are unable to assign this specimen to subspecies.

Chivi Vireo

Vireo chivi (Vieillot, 1817) (18)

ssp. *chivi* (Vieillot, 1817)

- MHNG 1731,084 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 18 OCT 1982. Skin.
 MHNG 1731,085 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 18 OCT 1982. Skin.
 MHNG 1731,086 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.
 MHNG 1731,087 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.
 MHNG 1731,088 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.
 MHNG 1731,089 ♂ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.
 MHNG 1731,090 ♂ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.
 MHNG 1731,091 ♀ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.
 MHNG 1731,092 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 13 OCT 1983. Skin.
 MHNG 1731,093 Un (PHA) Route Transchaco au km 310 (C. Dlouhy) 3 FEB 1984. Skin.
 MHNG 1731,094 Un (PHA) Route Transchaco au km 310 (C. Dlouhy) 6 FEB 1984. Skin.
 MHNG 1731,095 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.
 MHNG 1731,096 Un (PHA) Route Transchaco

au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

MHNG 1731,097 Un (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.

MHNG 1731,098 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1731,099 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1762,048 ♀ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 19 OCT 1991. Skin.

MHNG 1762,049 ♂ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 24 OCT 1991. Skin.

Though there is some tendency towards a slightly yellow tinge to the sides of the breast in the ITA specimens (tending towards *V. c. diversus* Zimmer, 1941) they are not clearly brighter on the upperparts and are not conspicuously different from certain brighter specimens from PHA. Thus we include all of these specimens under *V. c. chivi* (Vieillot, 1817).

Corvidae

(2 species)

Purplish Jay

Cyanocorax cyanomelas (Vieillot, 1818) (2)

MHNG 1732,063 Un (CON) Estancia primavera, 30 km sud Estancia Estrellas (No collector) 1 JAN 1987. Skin.

MHNG 1732,064 ♂ (PHA) Río Paraguay, km 185 (No collector) 25 OCT 1988. Skin.

Plush-crested Jay

Cyanocorax chrysops (Vieillot, 1818) (5)

ssp. *chrysops* (Vieillot, 1818)

MHNG 1490,001 ♀ (CEN) Colonia Thompson (C. Dlouhy) 6 NOV 1976. Skin.

MHNG 1495,087 ♂j (BOQ) Chaco, Filadelfia (C. Dlouhy) 10 APR 1977. Skin.

MHNG 1495,088 ♀ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 17 AUG 1977. Skin.

MHNG 1608,088 ♂ (APA) Centro Forestal Alto Parana, 12 km ouest Ciudad del Este (C. Dlouhy) 16 OCT 1978. Skin.

MHNG 1629,015 Un (APA) Hernandarias (C. Dlouhy) 16 JUL 1979. Skin.

Hirundinidae

(5 species)

Southern Rough-winged Swallow

Stelgidopteryx ruficollis (Vieillot, 1817) (11)
ssp. *ruficollis* (Vieillot, 1817)

MHNG 1727,096 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1727,097 ♀ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1727,098 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1727,099 ♀ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.

MHNG 1727,100 ♀ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1728,001 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1728,002 ♂ (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 21 OCT 1985. Skin.

MHNG 1728,003 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.

MHNG 1728,004 Un (ITA) Arroyo Pirayu-i (No collector) 28 OCT 1986. Skin.

MHNG 1732,073 Un (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 10 OCT 1985. Alcohol.

MHNG 1808,080 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.

Brown-chested Martin

Progne tapera (Linnaeus, 1766) (10)
ssp. *fusca* (Vieillot, 1817)

MHNG 1727,082 Un (APA) Lac Itaipu, Vivero (C. Dlouhy) 16 FEB 1982. Skin.

MHNG 1727,083 Un (PHA) Pozo Colorado, 25 km est (No collector) 7 OCT 1983. Skin.

MHNG 1727,084 Un (PHA) Pozo Colorado, 25 km est (No collector) 7 OCT 1983. Skin.

MHNG 1727,085 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1727,086 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.

MHNG 1727,087 Un (PHA) Route Transchaco au km 70 (No collector) 24 OCT 1988. Skin.

MHNG 1727,088 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.

MHNG 1727,089 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

MHNG 1732,072 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Alcohol.

MHNG 1762,039 ♀ (CEN) Río Salado, Piquete-Cué (No collector) 8 OCT 1991. Skin.

Grey-breasted Martin

Progne chalybea (Gmelin, 1789) (6)
ssp. *macrorhamphus* Brooke, 1974

MHNG 1727,090 ♀ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 28 OCT 1982. Skin.

MHNG 1727,091 ♂ (ITA) CAICISA (Tembey San Rafael) (No collector) 6 NOV 1982. Skin.

MHNG 1727,092 ♀ (ITA) CAICISA (Tembey San Rafael) (No collector) 6 NOV 1982. Skin.

MHNG 1727,093 ♀ (ITA) CAICISA (Tembey San Rafael) (No collector) 6 NOV 1982. Skin.

MHNG 1727,094 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 8 OCT 1985. Skin.

MHNG 1727,095 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 8 OCT 1985. Skin.

White-rumped Swallow

Tachycineta leucorrhoa (Vieillot, 1817) (2)

MHNG 1629,049 ♀ (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.

MHNG 1727,081 Un (ITA) CAICISA (Tembey San Rafael) (No collector) 5 NOV 1982. Skin.

Barn Swallow

Hirundo rustica Linnaeus, 1758 (4)
ssp. *erythrogaster* Boddaert, 1783

MHNG 1728,005 ♂ (CEN) San Lorenzo (C. Dlouhy) 15 MAR 1985. Skin.

MHNG 1808,081 Un (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 25 SEP 1996. Skin.

MHNG 1808,082 Un (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 25 SEP 1996. Skin

MHNG 1808,083 Un (None) No locality (C. Dlouhy) No date. Skin

Troglodytidae

(2 species)

House Wren

Troglodytes aedon Vieillot, 1809 (11)
ssp. *musculus*

MHNG 1608,092 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 28 AUG 1978. Skin.

MHNG 1630,080 ♂ (CAN) Río Carapá (No

collector) 2 NOV 1979. Skin.

MHNG 1728,010 ♀ (ITA) CAICISA (Tembey San Rafael) (No collector) 7 NOV 1982. Skin.

MHNG 1728,011 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 21 OCT 1983. Skin.

MHNG 1728,012 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 10 AUG 1984. Skin.

MHNG 1728,013 ♂ (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.

MHNG 1728,014 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.

MHNG 1728,015 Un (APY) Estancia Laguna General Díaz (No collector) 23 NOV 1987. Skin.

MHNG 1808,085 Un (BOQ) Río Pilcomayo (C. Dlouhy) No date. Skin.

MHNG 1916,047 Unj (CEN) San Lorenzo (C. Dlouhy) 2 DEC 2003. Skin.

MHNG 1916,048 Un (CEN) San Lorenzo (C. Dlouhy) 3 DEC 2003. Skin

Specimens from APA, CAN, CEN, CON and ITA are, to variable extent, warmly-coloured below and chestnut above with slightly more rufous wing and tail. Specimen MHNG 1808,085 is distinctly pale below, almost whitish with only a slight buffy tone, and notably paler brown on the crown and mantle than other specimens, so that the rufous base colour of the wings and tail is more contrasting. Whilst we note the distinctiveness of this specimen, we are unable to correspond the variation to any of the current subspecies descriptions and their proposed ranges, and thus tentatively include all under the nominate form pending future clarification.

Thrush-like Wren

Campylorhynchus turdinus (Wied, 1821) (3)
ssp. *unicolor* Lafresnaye, 1846

MHNG 1728,016 Un (CON) Embouchure Río

Aquidabán (No collector) 11 OCT 1988.
Skin.

MHNG 1728,017 Un (CON) Embouchure Río
Aquidabán (No collector) 12 OCT 1988.
Skin.

MHNG 1728,018 Un (CON) Embouchure Río
Aquidabán (No collector) 11 OCT 1988.
Skin.

These are the specimens referred to by
Contreras *et al.* (1993) in a review of the
distribution of the species, and represented
the first records from the Oriental region of
Paraguay.

Poliptilidae

(1 species)

Masked Gnatcatcher

Poliptila dumicola (Vieillot, 1817) (3)
ssp. dumicola (Vieillot, 1817)

MHNG 1729,002 ♂ (BOQ) Fortín Teniente
Agridino Enciso (C. Dlouhy) 29 AUG
1984. Skin.

MHNG 1746,046 Un j (None) No locality (No
collector) No date. Skin.

MHNG 1762,050 ♀ (COR) Río Salado (No
collector) 9 OCT 1991. Skin.

Donacobiidae

(1 species)

Black-capped Donacobius

Donacobius atricapilla (Linnaeus, 1766) (1)
ssp. atricapilla (Linnaeus, 1766)

MHNG 1732,065 ♀ (SPE) Arroyo Tapiracuayi,
8 km au nord-ouest de San Estanislao, sur
l'Arroyo (C. Vaucher & A. de Chambrier)
24 OCT 1989. Skin.

Turdidae

(4 species)

Pale-breasted Thrush

Turdus leucomelas Vieillot, 1818 (12)
ssp. leucomelas Vieillot, 1818

MHNG 1608,073 ♀ (APA) Centro Forestal

Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 20 SEP 1978. Skin. Specimen
missing.

MHNG 1629,027 Un (CON) Arroyo Azotey,
km 230 (No collector) 10 OCT 1979. Skin.

MHNG 1638,028 ♂ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 26 JUN 1981. Skin.

MHNG 1728,093 Un (CAZ) Arroyo Yvira-
Pari, 2 km est Tavai (No collector) 1 NOV
1982. Skin.

MHNG 1728,094 Un (COR) Salto Pirareta,
sud de Piribebuy (No collector) 22 MAR
1985. Skin.

MHNG 1728,095 Un (COR) Salto Pirareta,
sud de Piribebuy (No collector) 23 MAR
1985. Skin.

MHNG 1728,096 Un (GUA) Arroyo Yhaca-
Mi, à 4 km au nord Numi (No collector) 27
MAR 1985. Skin.

MHNG 1728,097 Un (CAA) Arroyo Yukuyry,
17 km sud Yhu (C. Dlouhy) 10 APR 1985.
Skin.

MHNG 1728,098 ♂ (ITA) Arroyo Agua-
Pey, 52 km nord-ouest Encarnación (No
collector) 25 OCT 1986. Skin.

MHNG 1728,099 Un (APA) Río Acaray, 30
km ouest Ciudad del Este (No collector) 1
NOV 1986. Skin.

MHNG 1762,041 ♂ (CON) Arroyo Trementina
(No collector) 12 OCT 1991. Skin.

MHNG 1762,042 ♀ (CON) Arroyo Trementina
(No collector) 12 OCT 1991. Skin.

Rufous-bellied Thrush

Turdus rufiventris Vieillot, 1818 (36)
ssp. rufiventris Vieillot, 1818

MHNG 1495,089 ♀ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 13 OCT 1977. Skin.

MHNG 1495,090 ♂ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este

- (C. Dlouhy) 13 OCT 1977. Skin.
- MHNG 1608,074 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.
- MHNG 1630,052 ♂? (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.
- MHNG 1630,053 ♂? (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.
- MHNG 1630,090 ♂? (APA) Río Itabó-Guazú (4 km Embouchure) (No collector) 4 NOV 1979. Skin.
- MHNG 1728,025 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.
- MHNG 1728,026 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.
- MHNG 1728,027♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1728,028 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1728,029 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.
- MHNG 1728,030 ♀ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.
- MHNG 1728,031 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 15 OCT 1982. Skin.
- MHNG 1728,032 Un (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.
- MHNG 1728,033 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.
- MHNG 1728,034 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.
- MHNG 1728,035 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.
- MHNG 1728,036 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1728,037 ♀ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 27 OCT 1982. Skin.
- MHNG 1728,038 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.
- MHNG 1728,039 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 16 MAR 1985. Skin.
- MHNG 1728,040 Un (GUA) Arroyo Yhacami, à 4 km au nord Numi (No collector) 27 MAR 1985. Skin.
- MHNG 1728,041 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.
- MHNG 1728,042 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.
- MHNG 1728,043 Un (APA) Lac Itaipú (ex Arroyo Pira Pyta), route Santa Fe (C. Dlouhy) 7 JUN 1984. Skin.
- MHNG 1728,044 ♂ (CON) Río Ypane, Belen (No collector) 11 OCT 1985. Skin.
- MHNG 1728,045 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,046 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 10 OCT 1986. Skin.
- MHNG 1728,047 ♂ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.
- MHNG 1728,048 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.
- MHNG 1728,049 ♂ (SPE) Arroyo Tapiracuayi,

- 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.
- MHNG 1728,050 ♂ (CAA) Arroyo Hondo, 10 km nord-est de Carayao (C. Vaucher & A. de Chambrier) 22 OCT 1989. Skin.
- MHNG 1732,082 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 20 OCT 1985. Alcohol.
- MHNG 1808,087 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.
- MHNG 1808,088 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.
- MHNG 1939,060 Un (ITA) San Benito (No collector) 29 OCT 1982. Skin.
- Creamy-bellied Thrush**
- Turdus amaurochalinus* Cabanis, 1851 (52)
- MHNG 1629,028 ♂ (CON) Arroyo Azotey, km 230 (No collector) 10 OCT 1979. Skin.
- MHNG 1629,046 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1630,064 ♂ (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.
- MHNG 1630,077 ♂ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.
- MHNG 1635,002 ♂ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.
- MHNG 1728,051 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.
- MHNG 1728,052 Un (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 13 OCT 1982. Skin.
- MHNG 1728,053 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 15 OCT 1982. Skin.
- MHNG 1728,054 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.
- MHNG 1728,055 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.
- MHNG 1728,056 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1728,057 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.
- MHNG 1728,058 ♀ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 30 OCT 1982. Skin.
- MHNG 1728,059 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 16 OCT 1983. Skin.
- MHNG 1728,060 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1728,061 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1728,062 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1728,063 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1728,064 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1728,065 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1728,066 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1728,067 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

- MHNG 1728,068 Un (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 7 JUN 1985. Skin.
- MHNG 1728,069 Un (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 7 JUN 1985. Skin.
- MHNG 1728,070 Un (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 7 MAY 1985. Skin.
- MHNG 1728,071 Un (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 7 MAY 1985. Skin.
- MHNG 1728,072 Un (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 7 MAY 1985. Skin.
- MHNG 1728,073 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.
- MHNG 1728,074 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.
- MHNG 1728,075 Un (CAA) Arroyo Güiragua, 3 km est Juan M. Frutos (No collector) 14 APR 1985. Skin.
- MHNG 1728,076 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.
- MHNG 1728,077 ♀ (SPE) Río Jejuí-Guazú (No collector) 7 OCT 1985. Skin.
- MHNG 1728,078 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 7 OCT 1986. Skin.
- MHNG 1728,079 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,080 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,081 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,082 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,083 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,084 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,085 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,086 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1728,087 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.
- MHNG 1728,088 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Skin.
- MHNG 1728,089 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 SEP 1988. Skin.
- MHNG 1728,090 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 SEP 1988. Skin.
- MHNG 1728,091 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1728,092 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1732,078 Un (CON) Arroyo Tagatiya-Guazú, 2 km sud-est Estancia Santa María (No collector) 20 OCT 1985. Alcohol.
- MHNG 1762,044 Un (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 19 OCT 1991. Skin.
- MHNG 1808,086 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.
- MHNG 1939,061 ♂ (ITA) (Estancia) Santa

María (No collector) 27 OCT 1982. Skin.
 MHNG 1954,047 Un (BOQ) Estancia La
 Conquista 10 km ouest Pratt's Gill (No
 collector) OCT 1986. Alcohol.

White-necked Thrush

Turdus albicollis Vieillot, 1818 (3)
 ssp. *paraguayensis* Vieillot, 1818

MHNG 1728,100 Un (CAZ) Arroyo Moroti à
 10 km au sud-est de Tavai (No collector) 2
 NOV 1983. Skin.

MHNG 1729,001 Un (CAZ) Arroyo Moroti à
 10 km au sud-est de Tavai (No collector) 3
 NOV 1983. Skin.

MHNG 1762,043 ♀ (CON) Arroyo Alegre (5
 km E de Estancia Primavera) (No collector)
 18 OCT 1991. Skin.

Mimidae

(2 species)

Chalk-browed Mockingbird

Mimus saturninus (Lichtenstein, 1823) (5)
 ssp. *modulator* (Gould, 1836)

MHNG 1728,019 Un (CON) Arroyo Azotey,
 rte N° 3 à 10 km au nord de Cororo (No
 collector) 22 OCT 1983. Skin.

MHNG 1728,020 Un (PHA) Route Transchaco
 au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1728,021 Un (PHA) Route Transchaco
 au km 293, Estancia Apendice (No collector)
 2 NOV 1988. Skin.

MHNG 1762,040 Un (CEN) Río Salado,
 Piquete-Cué (No collector) 9 OCT 1991.
 Skin.

MHNG 1869,061 Un (PHA) Estancia Las
 Margaritas, région Tifunké (Tinfunqué)
 Pilcomayo (No collector) 8 AUG 1996.
 Skin.

White-banded Mockingbird

Mimus triurus (Vieillot, 1818) (7)

MHNG 1728,022 Un (BOQ) Fortín Teniente

Agripino Enciso (C. Dlouhy) 16 AUG
 1984. Skin.

MHNG 1728,023 Un (PHA) Route Transchaco
 au km 80 (C. Dlouhy) 3 JUL 1985. Skin.

MHNG 1728,024 ♂ (PHA) 20 km est de Pozo
 Colorado (C. Vaucher & A. de Chambrier)
 29 SEP 1989. Skin.

MHNG 1808,084 Un (PHA) Estancia Las
 Margaritas, région Tifunké (Tinfunqué)
 Pilcomayo (C. Dlouhy) 10 AUG 1996.
 Skin.

MHNG 1869,062 Un (PHA) Río Pilcomayo,
 Pozo Arias (C. Dlouhy) 11 AUG 1996.
 Skin.

MHNG 1869,063 Un (BOQ) Estancia La
 Dorada, Pilcomayo (C. Dlouhy) 2 AUG
 1994. Skin.

MHNG 1869,064 Un (PHA) Estancia Las
 Margaritas, région Tifunké (Tinfunqué)
 Pilcomayo (No collector) 10 AUG 1996.
 Skin.

Motacillidae

(1 species)

Yellowish Pipit

Anthus chii Pucheran, 1855 (4)
 ssp. *chii* Pucheran, 1855

MHNG 1728,006 Un (CEN) Baie d'Asuncion
 (No collector) 10 SEP 1990. Skin.

MHNG 1728,007 Un (CEN) Baie d'Asuncion
 (No collector) 10 SEP 1990. Skin.

MHNG 1728,008 Un (CEN) Baie d'Asuncion
 (No collector) 10 SEP 1990. Skin.

MHNG 1728,009 Un (CEN) Baie d'Asuncion
 (No collector) 10 SEP 1990. Skin.

Formerly referred to as *A. lutescens*
 Pucheran, 1855 on account of the supposed
 unidentifiability of Azara's *Alondra chii*
 (Sclater 1878, Hellmayr 1935). However,
 the description is perfectly identifiable as
 demonstrated by Bertoni (1913), Zimmer
 (1953) and Smith & Clay (2021).

Thraupidae

(34 species)

Hooded Tanager*Nemosia pileata* (Boddaert, 1783) (1)ssp. *caerulea* (Wied, 1831)

MHNG 1731,009 ♂ (CON) Estancia Laguna Negra (No collector) 25 OCT 1985. Skin.

Chestnut-vented Conebill*Conirostrum speciosum* (Temminck, 1824) (1)ssp. *speciosum* (Temminck, 1824)

MHNG 1954,045 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (C. Dlouhy) 31 OCT 1986. Alcohol.

Saffron Finch*Sicalis flaveola* (Linnaeus, 1766) (14)ssp. *pelzelni* Sclater, 1872

MHNG 1495,092 ♀ (CEN) Colonia Thompson (C. Dlouhy) 15 SEP 1977. Skin.

MHNG 1608,086 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 24 AUG 1978. Skin.

MHNG 1608,091 ♀ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 20 AUG 1978. Skin.

MHNG 1729,026 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1729,027 Un (PHA) km 80 Transchaco (C. Dlouhy) 20 OCT 1982. Skin.

MHNG 1729,028 ♂i (PHA) Route Transchaco au km 310 (C. Dlouhy) 3 FEB 1984. Skin.

MHNG 1729,029 ♂ (PHA) km 316 Transchaco (C. Dlouhy) 23 APR 1984. Skin.

MHNG 1729,030 Un (PHA) Chaco-í (No collector) 18 MAR 1985. Skin.

MHNG 1729,031 Un (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 30 JUL 1985. Skin.

MHNG 1729,032 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.

MHNG 1729,033 ♂ (PHA) Route Transchaco

au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.

MHNG 1729,034 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.

MHNG 1729,035 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

MHNG 1808,094 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1986. Skin.

Blue-black Grassquit*Volatinia jacarina* (Linnaeus, 1766) (9)ssp. *jacarina* (Linnaeus, 1766)

MHNG 1630,081 ♂j (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1729,041 ♂J (APA) Río Itabó-Guazú (C. Dlouhy) 20 SEP 1984. Skin.

MHNG 1729,042 ♀ (APA) Río Itabó-Guazú (C. Dlouhy) 20 SEP 1984. Skin.

MHNG 1729,043 ♂j (APA) Río Itabó-Guazú (C. Dlouhy) 20 SEP 1984. Skin.

MHNG 1729,044 ♂j (APA) Río Itabó-Guazú (C. Dlouhy) 20 SEP 1984. Skin.

MHNG 1729,045 ♂j (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin

MHNG 1729,046 ♀ (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

MHNG 1729,047 ♂j (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

MHNG 1729,048 ♂j (CEN) Baie d'Asuncion (No collector) 10 NOV 1990. Skin.

^{AF}Ruby-crowned Tanager*Tachyphonus coronatus* (Vieillot, 1822) (16)

MHNG 1608,067 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (A. Colman) 20 SEP 1978. Skin.

MHNG 1608,075 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (A. Colman) 20 SEP 1978. Skin.

- MHNG 1731,013 ♂ (ITA) Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de (Estancia) Santa María (No collector) 29 OCT 1982. Skin.
- MHNG 1731,014 ♀ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.
- MHNG 1731,015 ♂ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.
- MHNG 1731,016 ♀ (ITA) Salto Tembey (No collector) 3 NOV 1982. Skin.
- MHNG 1731,017 ♀ (ITA) Salto Tembey (No collector) 3 NOV 1982. Skin.
- MHNG 1731,018 ♂ (ITA) Salto Tembey (No collector) 3 NOV 1982. Skin.
- MHNG 1731,019 ♀ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.
- MHNG 1731,020 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1731,021 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 3 NOV 1983. Skin.
- MHNG 1731,022 ♂ (APA) Río Itabó-Guazú (C. Dlouhy) AUG 1989. Skin.
- MHNG 1731,023 ♂ (None) No location (No collector) No date. Skin.
- MHNG 1939,052 ♂ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.
- MHNG 1939,053 ♀ (ITA) Salto Tembey (No collector) 3 NOV 1982. Skin.
- MHNG 1954,043 ♂ (BOQ) Estancia La Conquista 10 km ouest Pratt's Gill (No collector) OCT 1986. Alcohol.
- The locality for specimen MHNG 1954,043 is undoubtedly erroneous. This is an Atlantic Forest endemic that does not occur in the Dry Chaco region.
- White-winged Tanager**
Tachyphonus rufus (Boddaert, 1783) (4)
- MHNG 1629,040 ♀ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1629,044 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.
- MHNG 1731,011 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1731,012 ♂ (CON) Reyes-Cué (C. Vaucher & A. de Chambrier) 7 OCT 1989. Skin.
- Grey-headed Tanager**
Eucometis penicillata (Spix, 1825) (3)
ssp. *albicollis* (d'Orbigny & Lafresnaye, 1837)
- MHNG 1731,010 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 11 OCT 1983. Skin.
- MHNG 1762,057 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 23 OCT 1991. Skin.
- MHNG 1762,058 Un (CON) No locality (No collector) OCT 1991. Skin.
- Black-goggled Tanager**
Trichothraupis melanops (Vieillot, 1818) (7)
- MHNG 1608,066 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 12 OCT 1978. Skin.
- MHNG 1608,068 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.
- MHNG 1608,084 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.
- MHNG 1608,085 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 19 OCT 1978. Skin.
- MHNG 1731,024 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 10 AUG 1984. Skin.
- MHNG 1731,025 ♂ (ITA) Salto Tembey (No

collector) 2 NOV 1982. Skin.

MHNG 1731,026 ♂ (ITA) CAICISA (Tembey San Rafael) (No collector) 6 NOV 1982. Skin.

Red-crested Finch

Coryphospingus cucullatus (Müller, 1776)
(31)

MHNG 1495,093 ♂ (CEN) Colonia Thompson (C. Dlouhy) 15 SEP 1977. Skin.

MHNG 1495,094 ♀ (CEN) Colonia Thompson (C. Dlouhy) 15 SEP 1977. Skin.

MHNG 1495,095 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) APR 1977. Skin.

MHNG 1630,079 ♂ (CAN) Río Carapa (No collector) 2 NOV 1979. Skin.

MHNG 1729,071 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 8 OCT 1982. Skin.

MHNG 1729,072 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1729,073 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 9 OCT 1982. Skin.

MHNG 1729,074 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1729,075 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

MHNG 1729,076 ♀ (MIS) Panchito Lopez (C. Dlouhy) 24 OCT 1982. Skin.

MHNG 1729,077 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1729,078 ♀ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1729,079 ♀ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.

MHNG 1729,080 ♀ (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

MHNG 1729,081 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 27 OCT 1983. Skin.

MHNG 1729,082 ♀ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.

MHNG 1729,083 ♀ (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.

MHNG 1729,084 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.

MHNG 1729,085 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 3 NOV 1983. Skin.

MHNG 1729,086 ♂ (APA) Lac Itaipu (ex Arroyo Pira Pyta) (C. Dlouhy) 14 JAN 1984. Skin.

MHNG 1729,087 ♂ (BOQ) Route Transchaco au km 702, Fortín Teniente Agripino (sic) Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1729,088 ♀ (BOQ) Route Transchaco au km 702, Fortín Teniente Agripino (sic) Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1729,089 ♂ (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.

MHNG 1729,090 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 10 OCT 1986. Skin.

MHNG 1729,091 ♀ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 10 OCT 1986. Skin.

MHNG 1729,092 ♀ (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnacion (No collector) 25 OCT 1986. Skin.

MHNG 1729,093 ♂ (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnacion (No collector) 25 OCT 1986. Skin.

MHNG 1729,094 ♀ (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnacion (No collector) 25 OCT 1986. Skin.

MHNG 1732,090 ♂ (BOQ) Estancia La Conquista près de Fortín Pratt's Gill (No collector) 30 JUL 1985. Alcohol.

MHNG 1762,065 ♀ (CON) Arroyo Trementina (No collector) 12 OCT 1991. Skin. ssp. *rubescens*

MHNG 1939,058 ♂ (PAR) Estancia Montiel Potrero, 15 km est de Cerrito (No collector) 12 OCT 1982. Skin.

Birds from the Paraguayan Chaco are typically assigned to *C. c. fargoi* Brodkorb, 1938a, whilst those of the Oriental region are usually associated with *C. c. rubescens* (Swainson, 1825). We were not able to discern any patterns of variation consistent with the definition of these two subspecies, with birds from both regions of the country showing characters that could be associated with either subspecies. Without having access to type specimens of either subspecies, we leave the subspecific identity undetermined.

Swallow-Tanager

Tersina viridis (Illiger, 1811) (1)
ssp. *viridis* (Illiger, 1811)

MHNG 1731,068 ♂i (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

The immature male specimen shows a mixture of green and turquoise on the upperparts. The black throat is present and turquoise plumage is present on the upper breast. However, the lower breast and belly is retained from the juvenile plumage, being barred green and yellowish.

Lined Seedeater

Sporophila lineola (Linnaeus, 1758) (1)

MHNG 1608,093 ♀ (APY) Aguadulce, Parc national Defensores del Chaco (No collector) 28 DEC 1983. Skin.

White-bellied Seedeater

Sporophila leucoptera (Vieillot, 1817) (1)

ssp. *leucoptera* (Vieillot, 1817)

MHNG 1729,054 ♀ (CEN) Tobatí (C. Dlouhy) 22 AUG 1978. Skin.

Tawny-bellied Seedeater

Sporophila hypoxantha Cabanis, 1851 (6)

MHNG 1729,055 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1729,056 ♀ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.

MHNG 1729,057 ♂ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1729,058 ♂ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1729,059 ♀ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1729,060 ♀ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

Chestnut-bellied Seed-Finch

Sporophila angolensis (Linnaeus, 1766) (8)
ssp. *angolensis* (Linnaeus, 1766)

MHNG 1629,032 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 11 OCT 1979. Skin.

MHNG 1629,035 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1629,045 ♀ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1729,061 ♀ (PAR) Caballero (No collector) 25 MAR 1985. Skin.

MHNG 1729,062 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30 OCT 1986. Skin.

MHNG 1729,063 ♂ (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 30

OCT 1986. Skin.

MHNG 1729,064 ♂ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

MHNG 1729,065 ♀ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

Double-collared Seedeater

Sporophila caerulescens (Vieillot, 1817) (5)
ssp. *caerulescens* (Vieillot, 1817)

MHNG 1630,083 ♀ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1630,085 ♂ (CAN) Río Carapá (No collector) 2 NOV 1979. Skin.

MHNG 1729,051 ♀ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.

MHNG 1729,052 ♀ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.

MHNG 1729,053 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

Rusty-collared Seedeater

Sporophila collaris (Boddaert, 1783) (3)
ssp. *melanocephala* (Vieillot, 1817)

MHNG 1729,049 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 19 OCT 1989. Skin.

MHNG 1729,050 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1762,066 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

^{CH}Many-coloured Chaco-Finch

Saltatricula multicolor (Burmeister, 1860) (1)

MHNG 1729,070 Un (APY) Santo Domingo, 10 km nord de Teniente Montanía (C. Dlouhy) 21 APR 1984. Skin.

^{CE}Black-throated Saltator

Saltatricula atricollis (Vieillot, 1817) (2)

MHNG 1731,002 Un No locality (C. Vaucher & A. de Chambrier) 7 OCT 1989. Skin.

MHNG 1731,003 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (C. Dlouhy) 22 OCT 1983. Skin.

The collection locality for MHNG 1731,002 may be (CON) Reyes-Cué, as the same collectors apparently collected a White-winged Tanager *T. rufus* there on the same date. This is a plausible locality for this species.

Greyish Saltator

Saltator coerulescens Vieillot, 1817 (29)
ssp. *coerulescens* Vieillot, 1817

MHNG 1954,041 Un No locality (Mission MHNG) No date. Alcohol.

MHNG 1629,026 ♀ (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

MHNG 1730,080 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1730,081 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1730,082 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1730,083 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 22 OCT 1982. Skin.

MHNG 1730,084 Un (PAR) Caballero (No collector) 25 MAR 1985. Skin.

MHNG 1730,085 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.

MHNG 1730,086 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1730,087 Un (BOQ) Río Pilcomayo à

- Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1730,088 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
- MHNG 1730,089 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.
- MHNG 1730,090 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.
- MHNG 1730,091 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.
- MHNG 1730,092 ♂ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.
- MHNG 1730,093 ♂ (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 22 OCT 1987. Skin.
- MHNG 1730,094 ♀ (PHA) km 185 Transchaco (No collector) 25 OCT 1988. Skin.
- MHNG 1730,095 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1730,096 Un (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.
- MHNG 1730,097 Un (APY) à 2 km ouest d'Estancia Laguna General Diaz (No collector) 19 OCT 1988. Skin.
- MHNG 1732,077 Un (CEN) Tobatí (No collector) 21 MAR 1985. Alcohol.
- MHNG 1809,006 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.
- MHNG 1809,007 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.
- MHNG 1809,008 Un (BOQ) Estancia Juy (Yuí), région Pilcomayo, (C. Dlouhy) 21 JUL 1994. Skin.
- MHNG 1809,009 Un (BOQ) Pozo Hondo (C. Dlouhy) 5 AUG 1994. Skin.
- MHNG 1809,010 Un (BOQ) Río Pilcomayo, Estancia La Dorada (C. Dlouhy) 1 OCT 1996. Skin.
- MHNG 1916,044 Un (CEN) San Lorenzo (C. Dlouhy) 22 FEB 2004. Skin.
- MHNG 1916,049 Un (CEN) San Lorenzo (C. Dlouhy) 28 FEB 2004. Skin.
- MHNG 1939,055 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo" (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

Green-winged Saltator

Saltator similis Lafresnaye & d'Orbigny, 1837
(2)

ssp. *similis* Lafresnaye & d'Orbigny, 1837

MHNG 1762,062 ♂ (CON) Arroyo Alegre (5 km E de Estancia Primavera) (No collector) 17 OCT 1981. Skin.

MHNG 1762,063 ♀ (CON) Estancia Primavera (No collector) 18 OCT 1981. Skin.

Golden-billed Saltator

Saltator aurantirostris Vieillot, 1817 (9)

ssp. *aurantirostris* Vieillot, 1817

MHNG 1730,098 ♂ (BOQ) Estancia La Conquista près de Pratt's Gill (C. Dlouhy) 29 JUL 1985. Skin.

MHNG 1730,099 ♀ (BOQ) Estancia La Conquista près de Pratt's Gill (C. Dlouhy) 29 JUL 1985. Skin.

MHNG 1730,100 ♂ (BOQ) Estancia La Conquista près de Pratt's Gill (C. Dlouhy) 29 JUL 1985. Skin.

MHNG 1731,001 ♂ (BOQ) Estancia La Conquista près de Pratt's Gill (No collector) 11 OCT 1986. Skin.

MHNG 1732,081 Un (BOQ) Estancia La Conquista près de Pratt's Gill (C. Dlouhy) 30 JUL 1985. Alcohol.

MHNG 1809,003 ♂ (PHA) Río Pilcomayo,

Pozo Arias (C. Dlouhy) 11 AUG 1996. Skin.

MHNG 1809,004 ♂ (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1809,005 ♀ (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1954,040 Un (BOQ) Estancia La Conquista 10 km ouest Pratt's Gill (No collector) OCT 1986. Alcohol.

Great Pampa-Finch

Embernagra platensis (Gmelin, 1789) (4)
ssp. *platensis* (Gmelin, 1789)

MHNG 1729,038 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (No collector) 10 APR 1985. Skin.

MHNG 1729,039 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 3 JUL 1985. Skin.

MHNG 1729,040 ♀ (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 25 OCT 1989. Skin.

MHNG 1762,064 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 5 NOV 1991. Skin.

All specimens show streaking on the back and are assigned to the nominate subspecies.

Wedge-tailed Grass-Finch

Emberizoides herbicola (Vieillot, 1817) (2)
ssp. *herbicola* (Vieillot, 1817)

MHNG 1729,036 Un (CEN) Tobatí (No collector) 28 DEC 1983. Skin.

MHNG 1729,037 Un (CEN) Tobatí (No collector) 28 DEC 1983. Skin.

Orange-headed Tanager

Thlypopsis sordida (Lafresnaye & d'Orbigny, 1837) (1)

ssp. *sordida* (Lafresnaye & d'Orbigny, 1837)

MHNG 1731,008 i (ÑEE) 18 km est de San

Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

^{AF}Chestnut-headed Tanager

Thlypopsis pyrrhocomma Burns *et al.* 2016 (3)

MHNG 1731,005 ♀ (ITA) Salto Tembey (No collector) 2 NOV 1982. Skin.

MHNG 1731,006 ♂ (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

MHNG 1731,007 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 10 AUG 1984. Skin.

^{CH}Black-capped Warbling-Finch

Microspingus melanoleucus (Lafresnaye & d'Orbigny, 1837) (11)

MHNG 1729,021 ♀ (APY) Santo Domingo, 17 km nord de Teniente Montanía (C. Dlouhy) 21 APR 1984. Skin.

MHNG 1729,022 ♀ (BOQ) km 575 Transchaco (C. Dlouhy) 27 AUG 1984. Skin.

MHNG 1729,023 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1729,024 ♂ (PHA) km 115 Transchaco (No collector) 24 OCT 1988. Skin.

MHNG 1729,025 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 19 OCT 1989. Skin.

MHNG 1808,095 ♂ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 2 AUG 1994. Skin.

MHNG 1808,096 ♀ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 1 AUG 1994. Skin.

MHNG 1808,097 ♀ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 15 AUG 1996. Skin.

MHNG 1808,098 ♂ (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 15 AUG 1996. Skin.

MHNG 1808,099 ♀ (PHA) Río Pilcomayo,

Pozo Arias (C. Dlouhy) 15 AUG 1996.
Skin.

MHNG 1954,044 Un (BOQ) Río Pilcomayo à
Pedro P. Peña (No collector) 8 OCT 1986.
Alcohol.

Black-crested Finch

Lophospingus pusillus (Burmeister, 1860) (1)

MHNG 1729,020 ♂j (BOQ) Route Transchaco
au km 702, Fortín Teniente Agripino Enciso
(C. Dlouhy) 29 AUG 1984. Skin.

Red-crested Cardinal

Paroaria coronata (J.F. Miller, 1776) (11)

MHNG 1489,046 ♀ (CEN) Environ d' Asuncion,
Colonia Thompson (C. Dlouhy) 19 SEP
1976. Head and wings.

MHNG 1490,002 ♀ (CEN) Colonia Thompson,
10 km sud San Lorenzo (C. Dlouhy) 8 NOV
1976. Skin.

MHNG 1608,080 Un (APY) Aguadulce,
Parc national "Defensores del Chaco" (C.
Dlouhy) 20 AUG 1978. Skin.

MHNG 1729,095 Un (PHA) Route Transchaco
au km 310 (C. Dlouhy) 3 FEB 1984. Skin.

MHNG 1729,096 Un (PHA) km 316
Transchaco, Río Sombrero-piri (C. Dlouhy)
23 APR 1984. Skin.

MHNG 1729,098 Un (PHA) Chaco-í (No
collector) 18 MAR 1985. Skin.

MHNG 1729,099 Un (BOQ) Estancia La
Conquista près de Fortín Pratt's Gill (C.
Dlouhy) 30 JUL 1985. Skin.

MHNG 1729,100 Un (BOQ) Estancia La
Conquista près de Fortín Pratt's Gill (C.
Dlouhy) 30 JUL 1985. Skin.

MHNG 1730,067 Un (PHA) Route Transchaco
au km 293, Estancia Apendice (No collector)
2 NOV 1988. Skin.

MHNG 1730,068 Un (PHA) Route Transchaco
au km 293, Estancia Apendice (No collector)
2 NOV 1988. Skin.

MHNG 1808,091 Un (BOQ) Río Pilcomayo,

Estancia La Dorada (C. Dlouhy) 25 SEP
1996. Skin.

Yellow-billed Cardinal

Paroaria capitata (Lafresnaye & d'Orbigny,
1837) (14)

MHNG 1729,097 Unj (PHA) Route Transchaco
au km 212, Río Montelindo (No collector)
15 MAR 1985. Skin.

MHNG 1730,069 ♂ (PAR) Arroyo Mbaey, 3
km nord de Carapeguá (No collector) 9 SEP
1982. Skin.

MHNG 1730,070 Un (PHA) Route Transchaco
au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1730,071 ♂ (SPE) Río Jejui-Guazú, rte
N° 3 (No collector) 9 OCT 1985. Skin.

MHNG 1730,072 ♀ (PHA) km 293 Transchaco
(No collector) 6 NOV 1985. Skin.

MHNG 1730,073 Un (PHA) Río Piribebuy, 5
km nord Emboscada Nueva (No collector)
20 OCT 1986. Skin.

MHNG 1730,074 Unj (PHA) Río Aguaray-
Guazú km 117 Transchaco (No collector)
22 OCT 1987. Skin.

MHNG 1730,075 Unj (PHA) Río Aguaray-
Guazú km 117 Transchaco (No collector)
22 OCT 1987. Skin.

MHNG 1730,076 ♂ (PHA) Río Aguaray-
Guazú km 117 Transchaco (No collector)
22 OCT 1987. Mounted.

MHNG 1730,077 Un (PHA) Río Aguaray-
Guazú km 117 Transchaco (No collector)
22 OCT 1987. Skin.

MHNG 1730,078 Un (PHA) Route Transchaco
au km 293, Estancia Apendice (No collector)
3 NOV 1988. Skin.

MHNG 1732,074 ♀ (PHA) km 283 Transchaco
(No collector) 6 NOV 1985. Alcohol.

MHNG 1736,045 Un (PHA) Chaco-í (No
collector) 18 MAR 1985. Skin.

MHNG 1939,059 Un (PHA) Chaco-í (No
collector) 18 MAR 1985. Skin.

Magpie Tanager

Cissopis leverianus (Gmelin, 1788) (2)
ssp. *major* (Cabanis, 1851)

MHNG 1495,091 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 13 OCT 1977. Skin.

MHNG 1731,004 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 13 AUG 1984. Skin.

Fawn-breasted Tanager

Pipraeidea melanonota (Vieillot, 1819) (1)
ssp. *melanonota* (Vieillot, 1819)

MHNG 1731,061 ♀ (ITA) Salto Tembey (No collector) 3 NOV 1982. Skin.

This is an unusually late record for a species that is often considered a winter migrant.

Blue-and-Yellow Tanager

Rauenia bonariensis (Gmelin, 1789) (15)
ssp. *schulzei* Brodkorb, 1938

MHNG 1731,049 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,051 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,052 ♂i (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,053 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,054 ♂i (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,055 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,056 ♀ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,057 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1731,058 ♂ (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 9 OCT 1986. Skin.

MHNG 1731,059 ♀ (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1731,060 ♂i (PHA) 20 km est de Pozo Colorado (C. Vaucher & A. de Chambrier) 28 SEP 1989. Skin.

MHNG 1808,092 ♂ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 2 AUG 1994. Skin.

MHNG 1808,100 ♀ (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 2 AUG 1994. Skin.

MHNG 1809,001 ♂j (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

MHNG 1809,002 ♂j (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.

Immature male birds resemble dull adults, but have a greenish back, show greenish feathers within the blue of the crown and much paler yellow underparts, lacking the orange tinge to the breast.

All of these specimens are from the Paraguayan Chaco from the same general area where Brodkorb (1938a) described the subspecies *R. b. schulzei* on the basis of type UMMZ 93017, an adult male, taken 265 km west of Puerto Casado, Paraguay, on 2 October 1936 by A. Schulze. This subspecies was described as “decidedly smaller; orange color of posterior underparts and rump more intense”. When compared with the nominate subspecies the following measurements were provided:

Wing males 86-88 *schulzei* versus
93, 98 *bonariensis*

Wing females 85-86 *schulzei* versus
93 *bonariensis*

Tail males 63-64.5 *schulzei* versus
70.5-73 *bonariensis*

Tail females 62-63.5 *schulzei* versus
70 *bonariensis*

Culmen from bill base males 14.5
schulzei versus no data available
bonariensis

Culmen from bill base females
13.8-14 *schulzei* versus 15.5
bonariensis

This diagnosis of differential size was based on a very small sample of just four specimens of *schulzei* and three of *bonariensis*.

Within the Geneva Museum sample examined, some birds (e.g. MHNG 1731,057) showed a clearly more intense orange colour to the rump and lower underparts than others taken at the same locality (consistent with supposed phenological differences between the two subspecies) and such variation at a single locality does not support subspecific distinction. The measurements for our sample are as follows:

Males (n=11): wing 82-91 mm
(mean = 86.6 mm); tail 65-74 mm
(mean = 68.6 mm).

Females (n=4): wing 85-88 mm
(mean = 86.9 mm); tail 66-70 mm
(mean = 67.8 mm).

Wing measurements are broadly consistent with the description of *R. b. schulzei*, but the tail measurements greatly exceed the diagnosis and maximum values overlap with the values provided by the author for *R. b. bonariensis*. We tentatively retain *R. b. schulzei* but note that the supposed plumage differences apparently do not hold out in this series, and that the proposed morphometric differences are extremely minor. The subspecific limits in this species would probably benefit from review.

^{AF}Green-headed Tanager

Tangara seledon (Müller, 1776) (2)

MHNG 1731,066 ♀ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

MHNG 1731,067 ♂ (ITA) Salto Tembey (No collector) 1 NOV 1982. Skin.

Sayaca Tanager

Thraupis sayaca (Linnaeus, 1766) (27)

ssp. *sayaca* (Linnaeus, 1766)

MHNG 1608,069 ♂ (CAN) Río Carapá (C. Dlouhy) 17 OCT 1978. Skin.

MHNG 1629,048 ♀ (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.

MHNG 1630,063 Un (AMA) 15 km sud-est de Bella Vista (No collector) 24 OCT 1979. Skin.

MHNG 1731,030 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 8 OCT 1982. Skin.

MHNG 1731,031 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 11 OCT 1982. Skin.

MHNG 1731,032 Un (MIS) Panchito Lopez (No collector) 23 OCT 1982. Skin.

MHNG 1731,033 ♂ (ITA) Arroyo Poromoco, 10 km sud (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

MHNG 1731,034 Un (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.

MHNG 1731,035 Un (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.

MHNG 1731,036 Un (PHA) Route Transchaco au km 148 (No collector) 1 MAR 1983. Skin.

MHNG 1731,037 Un (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 14 OCT 1983. Skin.

MHNG 1731,038 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.

- MHNG 1731,039 Un (CON) Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo (No collector) 22 OCT 1983. Skin.
- MHNG 1731,040 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 2 NOV 1983. Skin.
- MHNG 1731,041 Un (PHA) Route Transchaco au km 212, Río Montelindo (No collector) 15 MAR 1985. Skin.
- MHNG 1731,042 Un (CEN) Río Paraguay, San Antonio (C. Dlouhy) 18 FEB 1984. Skin.
- MHNG 1731,043 Un (ITA) Arroyo Agua-Pey, 52 km nord-ouest Encarnacion (No collector) 25 OCT 1986. Skin.
- MHNG 1731,044 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 31 OCT 1986. Skin.
- MHNG 1731,045 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.
- MHNG 1731,046 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.
- MHNG 1731,047 ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 1 NOV 1988. Skin.
- MHNG 1731,048 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 2 NOV 1988. Skin.
- MHNG 1732,083 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (C. Dlouhy) 10 APR 1985. Alcohol.
- MHNG 1732,086 Un (CEN) Tobatí (No collector) 20 MAR 1985. Alcohol.
- MHNG 1732,087 Un (CAA) Arroyo Yukuyry, 17 km sud Yhu (C. Dlouhy) 10 APR 1985. Alcohol.
- MHNG 1762,061 Un (COR) Río Salado (No collector) 9 OCT 1991. Skin.
- MHNG 1939,057 Un (ITA) (Estancia) Santa María (No collector) 26 OCT 1982. Skin.

Emberizidae

(3 species)

Grassland Sparrow

- Ammodramus humeralis* (Bosc, 1792) (8)
ssp. *humeralis* (Bosc, 1792)
- MHNG 1632,055 Un (APA) Arroyo Pira Pyta (C. Dlouhy) 5 SEP 1980. Skin.
ssp. *xanthornus* Gould, 1839
- MHNG 1729,017 Un (CON) Estancia Laguna Negra (No collector) 18 OCT 1983. Skin.
- MHNG 1729,014 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.
- MHNG 1729,015 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.
- MHNG 1729,016 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.
ssp. *xanthornus* Gould, 1839 > *humeralis* (Bosc, 1792)
- MHNG 1729,018 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 5 APR 1985. Skin.
- MHNG 1729,019 Un (COR) Río Piribebuy, 5 km nord Emboscada Nueva (No collector) 7 APR 1985. Skin.
- MHNG 1762,067 Un (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.
- The subspecies that has been most recently associated with Paraguayan populations is *A. h. xanthornus* Gould, 1839, which is based on a colour plate of a specimen from Maldonado, Uruguay, that lacks a formal description (the same bird being referred to by the preoccupied name *A. h. manimbe* in the main text). This poor plate shows a bird that is clearly greyish above and the majority of the specimens in this sample correspond at least superficially with it. Hellmayr (1938), who examined the type upon which the illustration is based described it as "Similar to *M. h. humeralis*, but without, or with very little, rufescent or brownish submarginal edges to the dorsal feathers, the prevailing tone

of the upper parts being blackish and gray.” We note that this contradicts the description of the same subspecies provided by Jaramillo (2019) that “*xanthornus* is darker than nominate, has chestnut edging on upperparts, and deeper and more extensive yellow above eye.”

Specimens in this series from CON and ÑEE are consistent with Hellmayr’s (1938) description of *A. h. xanthornus*. On the other hand, MHNG 1632,055 from APA is conspicuously more richly-coloured than other specimens, being distinctly more rufous-edged above, strongly buffy-cinnamon below and with the yellow of above the eye and on the wing-bend a deeper more mustard yellow. This specimen is consistent with nominate *A. h. humeralis*. Specimens from APY and COR show transitional features between the two subspecies, and similar individuals were reported by Wetmore (1926). We agree with the statement in Hellmayr (1938) that “The proper allocation of the inhabitants of eastern Paraguay and the adjoining districts of Corrientes is a matter of personal preference, and largely depends on the hazards of the available material. The region appears to be an area of intergradation, as might be expected from its geographical intermediacy”.

Saffron-billed Sparrow

Arremon flavirostris Swainson, 1838 (4)
ssp. *polionotus* Bonaparte, 1850

- MHNG 1729,066 Un (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.
MHNG 1729,067 Un (CON) Arroyo Alegre, 5 km ouest Estancia Primavera, 30 km sud Estancia Estrellas (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.
MHNG 1729,068 Un (CON) Arroyo Alegre, 5 km ouest Estancia Primavera, 30 km sud Estancia Estrellas (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.
MHNG 1729,069 Un (APA) Río Itabó-Guazú (C. Dlouhy) MAY 1990. Skin.

Rufous-collared Sparrow

Zonotrichia capensis (Müller, 1776) (17)

- MHNG 1729,005 Unj (BOQ) Estancia La Conquista près de Fortín Pratt’s Gill (C. Dlouhy) 30 JUL 1985. Skin.
MHNG 1729,006 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
MHNG 1729,007 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.
MHNG 1869,051 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 8 AUG 1996. Skin.
MHNG 1869,052 Un (BOQ) Estancia La Dorada, Pilcomayo (C. Dlouhy) 1 AUG 1994. Skin.
MHNG 1869,053 Un (PHA) Estancia Las Margaritas, région Tifunké (Tinfunqué) Pilcomayo (C. Dlouhy) 9 AUG 1996. Skin.
MHNG 1489,049 ♂j (CEN) Colonia Thompson (C. Dlouhy) 20 SEP 1976. Head and wings.
MHNG 1608,082 Un (CAN) Río Carapá (C. Dlouhy) 18 OCT 1978. Skin.
MHNG 1608,083 ♂ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 21 AUG 1978. Skin.
MHNG 1729,003 Unj (CEN) San Lorenzo (C. Dlouhy) 6 MAR 1983. Skin.
MHNG 1729,004 Unj (PHA) Route Transchaco au km 149 (C. Dlouhy) 26 DEC 1983. Skin.
MHNG 1729,008 Un (ITA) Arroyo Pirayu-i (No collector) 25 OCT 1986. Skin.
MHNG 1729,009 ♂ (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.
MHNG 1729,010 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.
MHNG 1729,011 Un (ITA) Arroyo Pirayu-i (No collector) 27 OCT 1986. Skin.
MHNG 1729,012 ♀ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 16 OCT 1989. Skin.

MHNG 1729,013 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 19 OCT 1989. Skin.

We were unable to observe any geographical variation in this sample that is consistent with current subspecific definitions. Thus we leave the subspecies as undetermined.

Cardinalidae

(4 species)

Hepatic Tanager

Piranga flava (Vieillot, 1822) (3)

ssp. flava (Vieillot, 1822)

MHNG 1731,027 ♂ (BOQ) Croisée Filadelfia/Mariscal Estigarribia, km 415 Transchaco (C. Dlouhy) 26 AUG 1984. Skin.

MHNG 1731,028 ♀ (BOQ) Route Transchaco au km 702, Fortín Teniente Agripino Enciso (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1731,029 ♂ (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 3 AUG 1985. Skin.

Red-crowned Ant-Tanager

Habia rubica (Vieillot, 1817) (1)

ssp. rubica (Vieillot, 1817)

MHNG 1608,098 ♀ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 19 OCT 1978. Skin.

Black-backed Grosbeak

Pheucticus aureoventris (Lafresnaye & d'Orbigny, 1837) (1)

ssp. aureoventris (Lafresnaye & d'Orbigny, 1837)

MHNG 1730,079 ♀ (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 29 AUG 1984. Skin.

Ultramarine Grosbeak

Cyanocompsa brissonii (Lichtenstein, 1823) (1)

ssp. sterea (Oberholser, 1901)

MHNG 1629,020 ♂ (APA) Monte Armistiera (Puerto Armisticia), 25 km nord-ouest Itabó-Guazú (C. Dlouhy) 10 JUL 1979. Skin.

Parulidae

(5 species)

Masked Yellowthroat

Geothlypis aequinoctialis (Gmelin, 1789) (6)

ssp. velata (Vieillot, 1809)

MHNG 1629,023 ♂ (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

MHNG 1629,024 ♂ (CAA) 20 km nord Coronel Oviedo (No collector) 8 OCT 1979. Skin.

MHNG 1731,070 ♂ (ÑEE) 18 km est de San Lorenzo (C. Vaucher & A. de Chambrier) 17 OCT 1989. Skin.

MHNG 1762,051 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

MHNG 1762,052 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

MHNG 1762,053 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

Tropical Parula

Setophaga pitiayumi (Vieillot, 1817) (1)

MHNG 1731,069 ♀ (CON) Estancia Laguna Negra (No collector) 18 OCT 1983. Skin.

Flavescent Warbler

Myiothlypis flaveola Baird, 1865 (3)

MHNG 1762,054 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 18 OCT 1991. Skin.

MHNG 1762,055 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector) 18 OCT 1991. Skin.

MHNG 1762,056 ♂ (CON) Arroyo Allegre (5 km E de Estancia Primavera) (No collector)

18 OCT 1991. Skin.

White-browed Warbler

Myiothlypis leucoblephara (Vieillot, 1817) (4)

MHNG 1731,076 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 24 SEP 1978. Skin.

MHNG 1731,077 ♂ (ÑEE) 5 km nord-ouest de Pilar (No collector) 20 OCT 1982. Skin.

MHNG 1731,078 Un (GUA) Arroyo Ovie, 10 km sud Villarica (No collector) 29 OCT 1983. Skin.

MHNG 1731,079 Un (CAZ) Arroyo Moroti à 10 km au sud-est de Tavai (No collector) 1 NOV 1983. Skin.

Golden-crowned Warbler

Basileuterus culicivorus (Deppe, 1830) (8)
ssp. *azarae* Zimmer, 1949

MHNG 1731,071 ♀ (ÑEE) 5 km nord-ouest de Pilar (No collector) 19 OCT 1982. Skin.

MHNG 1731,072 Un (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 10 AUG 1984. Skin.

MHNG 1731,073 Un (APA) Río Itabó-Guazú (C. Dlouhy) MAY 1990. Skin.

ssp. *hypoleucus* Bonaparte, 1850 > *azarae* Zimmer, 1949

MHNG 1731,074 Un (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.

MHNG 1731,075 Un (CON) Arroyo Allegre, 5 km ouest de Estancia Primavera (C. Vaucher & A. de Chambrier) 9 OCT 1989. Skin.

MHNG 1762,045 ♀ (CON) Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María (No collector) 25 OCT 1991. Skin.

MHNG 1762,046 ♂ (CON) Estancia Primavera (No collector) 17 OCT 1991.

MHNG 1762,047 ♀ (CON) Estancia Primavera (No collector) 17 OCT 1991.

All specimens of ssp. *hypoleucus* show

signs of the well known integration with ssp. *azarae*, with variable amounts of yellow feathering on the underparts.

Icteridae

(12 species)

Crested Oropendola

Psarocolius decumanus (Pallas, 1769) (1)
ssp. *decumanus* (Pallas, 1769)

MHNG 1630,054 ♀? (CON) Estancia Estrellas, Río Apa, à 30 km ouest San (No collector) 16 OCT 1979. Skin.

Solitary Black Cacique

Cacicus solitarius (Vieillot, 1816) (3)

MHNG 1489,048 Un (PHA) Pozo Colorado (C. Dlouhy) 15 SEP 1976. Head and wings.

MHNG 1732,012 Un (BOQ) Río Pilcomayo à Pedro P. Peña (No collector) 8 OCT 1986. Skin.

MHNG 1732,013 Un (PHA) km 310 Transchaco (C. Dlouhy) 6 FEB 1984. Skin.

Golden-winged Cacique

Cacicus chrysopterus (Vigors, 1825) (8)

MHNG 1732,005 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1732,006 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 17 OCT 1982. Skin.

MHNG 1732,007 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.

MHNG 1732,008 Un (CON) Estancia Laguna Negra (No collector) 22 OCT 1985. Skin.

MHNG 1732,009 Un (PAR) Lago Ypoá, Estancia Monitor (C. Dlouhy) 26 NOV 1988. Skin.

MHNG 1732,010 Un (PAR) Lago Ypoá, Estancia Monitor (C. Dlouhy) 26 NOV 1988. Skin.

MHNG 1732,011A ♀ (PHA) Route Transchaco

au km 293, Estancia Apendice (No collector) 3 NOV 1988. Mounted.

MHNG 1732,011B ♀ (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 3 NOV 1988. Skin.

Red-rumped Cacique

Cacicus haemorrhous (Linnaeus, 1766) (6)
ssp. *affinis* Swainson, 1834

MHNG 1608,072 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 27 JUN 1978. Skin.

MHNG 1731,100 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 11 OCT 1982. Skin.

MHNG 1732,001 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 11 OCT 1982. Skin.

MHNG 1732,002 ♀ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 11 OCT 1982. Skin.

MHNG 1732,003 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

MHNG 1732,004 Un (SPE) Arroyo Tapiracuayi, 8 km au nord-ouest de San Estanislao, sur l'Arroyo (C. Vaucher & A. de Chambrier) 24 OCT 1989. Skin.

Orange-backed Troupial

Icterus croconotus (Wagler, 1829) (4)
ssp. *strictifrons* Todd, 1924

MHNG 1732,032 ♂ (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 19 AUG 1984. Skin.

MHNG 1732,033 Un (BOQ) Fortín Teniente Agripino Enciso (C. Dlouhy) 29 AUG 1984. Skin.

MHNG 1732,034 Un (APY) Santo Domingo, 10 km nord de Teniente Montanía (C. Dlouhy) 21 APR 1984. Skin.

MHNG 1732,035 Un (PHA) Route Transchaco

au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.

Variable Oriole

Icterus pyrrhopterus (Vieillot, 1819) (23)
ssp. *pyrrhopterus* (Vieillot, 1819)

MHNG 1495,097 ♂ (BOQ) Chaco, Filadelfia (C. Dlouhy) 8 APR 1977. Skin.

MHNG 1629,016 Un (APA) Lac Acaray (barrage du río), 8 km sud Hernandarias (C. Dlouhy) 16 JUL 1979. Skin.

MHNG 1732,014 ♂ (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 10 OCT 1982. Skin.

MHNG 1732,015 Un (PAR) Arroyo Mbaey, 3 km nord de Carapeguá (No collector) 26 OCT 1983. Skin.

MHNG 1732,016 ♀ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 16 OCT 1982. Skin.

MHNG 1732,017 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,018 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,019 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,020 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,021 Un (PHA) 15 km est de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,022 Un (PHA) km 149 Transchaco (C. Dlouhy) 26 DEC 1983. Skin.

MHNG 1732,023 Un (PHA) Route Transchaco au km 250 (C. Dlouhy) 30 AUG 1984. Skin.

MHNG 1732,024 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 1 NOV 1986. Skin.

MHNG 1732,025 Un (APA) Río Acaray, 30 km ouest Ciudad del Este (No collector) 1 NOV 1986. Skin.

MHNG 1732,026 Un (BOQ) Estancia La

Conquista près de Fortín Pratt's Gill (No collector) 12 OCT 1986. Skin.

MHNG 1732,027 Un (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Skin.

MHNG 1732,028 Un (CON) Embouchure Río Aquidabán (No collector) 11 OCT 1988. Skin.

MHNG 1732,029 Un (CON) Embouchure Río Aquidabán (No collector) 12 OCT 1988. Skin.

MHNG 1732,030 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Skin.

MHNG 1732,031 Un (CON) Embouchure Río Aquidabán (No collector) 13 OCT 1988. Skin.

MHNG 1868,058 Un (PHA) Río Pilcomayo, Pozo Arias (No collector) 15 AUG 1996. Skin.

MHNG 1868,059 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 15 AUG 1996. Skin.

MHNG 1954,042 Un (BOQ) Estancia La Conquista 10 km ouest Pratt's Gill (No collector) OCT 1986. Alcohol.

Screaming Cowbird

Molothrus rufoaxillaris Cassin, 1866 (5)

MHNG 1632,056 Un (APA) Arroyo Pira Pyta (C. Dlouhy) 5 SEP 1980. Skin. Specimen missing.

MHNG 1634,093 Un (APA) Lac Itaipu (C. Dlouhy) 31 MAR 1980. Skin.

MHNG 1732,048 Un (APY) Estancia Laguna General Díaz (No collector) 18 NOV 1987. Skin.

MHNG 1732,049 Un (APY) Estancia Laguna General Díaz (No collector) 18 NOV 1987. Skin.

MHNG 1732,057 Un (CON) 11 km à l'est de l'Estancia San Luis de la Sierra (No

collector) 5 NOV 1987. Skin.

Shiny Cowbird

Molothrus bonariensis (Gmelin, 1789) (18)
ssp. bonariensis (Gmelin, 1789)

MHNG 1489,050 Un (CEN) Colonia Thompson (C. Dlouhy) 20 SEP 1976. Head and wings.

MHNG 1490,005 ♂ (CEN) Colonia Thompson (C. Dlouhy) 3 NOV 1976. Skin.

MHNG 1495,096 ♂ (CEN) Colonia Thompson (C. Dlouhy) 15 SEP 1977. Skin.

MHNG 1608,070 ♂ (CAN) Río Carapá (C. Dlouhy) 17 OCT 1978. Skin.

MHNG 1629,042 ♂ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

MHNG 1731,050 Un (PHA) Route Transchaco au km 80 (No collector) 27 DEC 1983. Skin.

MHNG 1732,050 ♂ (MIS) Río Aguaray, 30 km sud-est de San Juan Bautista (No collector) 17 OCT 1982. Skin.

MHNG 1732,051 ♂ (ITA) CAICISA (Tembey San Rafael) (No collector) 5 NOV 1982. Skin.

MHNG 1732,052 ♀ (CON) Arroyo Tagatiya-Guazú (2 km SE de Estancia Santa María) (No collector) 22 OCT 1985. Skin.

MHNG 1732,053 ♀ (CON) Arroyo Tagatiya-Guazú (2 km SE de Estancia Santa María) (No collector) 22 OCT 1985. Skin.

MHNG 1732,054 Un (CON) Arroyo Tagatiya-Guazú (2 km SE de Estancia Santa María) (No collector) 22 OCT 1985. Skin.

MHNG 1732,055 ♀ (CON) Arroyo Tagatiya-Guazú (2 km SE de Estancia Santa María) (No collector) 22 OCT 1985. Skin.

MHNG 1732,056 Un (APY) Estancia Laguna General Díaz (No collector) 18 NOV 1987. Skin.

MHNG 1732,058 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector)

3 NOV 1988. Skin.

MHNG 1732,059 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (C. Vaucher & A. de Chambrier) 18 OCT 1989. Skin.

MHNG 1732,091 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Alcohol.

MHNG 1916,045 ♀ (CEN) San Lorenzo (C. Dlouhy) 20 DEC 2003. Skin. Dark form female of the "*melanogyna*" form.

MHNG 1939,054 ♂ (APA) Centro Forestal Alto Paraná, 12 km ouest Ciudad del Este (C. Dlouhy) 6 AUG 1984. Skin.

Chopi Blackbird

Gnorimopsar chopi (Vieillot, 1819) (1)
ssp. *chopi* (Vieillot, 1819)

MHNG 1629,039 ♀ (AMA) Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista (No collector) 12 OCT 1979. Skin.

Greyish Baywing

Agelaioides badius (Vieillot, 1819) (9)
ssp. *badius* (Vieillot, 1819)

MHNG 1732,040 Un (PHA) 85 km de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,041 Un (PHA) 85 km de Pozo Colorado (No collector) 8 OCT 1983. Skin.

MHNG 1732,042 Un (PHA) Route Transchaco au km 80 (C. Dlouhy) 27 DEC 1983. Skin.

MHNG 1732,043 Un (PHA) km 316 Transchaco, Río Sombrero-piri (C. Dlouhy) 23 APR 1984. Skin.

MHNG 1732,044 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 5 JUL 1985. Skin.

MHNG 1732,045 Un (PHA) Río Aguaray-Guazú km 117 Transchaco (No collector) 27 DEC 1983. Skin.

MHNG 1732,046 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 4 NOV 1988. Skin.

MHNG 1732,047 Un (PHA) Route Transchaco au km 293, Estancia Apendice (No collector) 4 NOV 1988. Skin.

MHNG 1808,089 Un (PHA) Río Pilcomayo, Pozo Arias (C. Dlouhy) 12 AUG 1996. Skin.

Unicoloured Blackbird

Agelasticus cyanopus (Vieillot, 1819) (5)
ssp. *cyanopus* (Vieillot, 1819)

MHNG 1732,036 ♀ (PHA) km 178 Transchaco (C. Dlouhy) 5 SEP 1981. Skin.

MHNG 1732,037 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Skin.

MHNG 1732,038 ♂ (SPE) Río Jejui-Guazú, rte N° 3 (No collector) 9 OCT 1985. Skin.

MHNG 1762,059 ♀ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

MHNG 1762,060 ♂ (APY) à 2 km ouest d'Estancia Laguna General Díaz (No collector) 6 NOV 1991. Skin.

Chestnut-capped Blackbird

Chrysomus ruficapillus (Vieillot, 1819) (2)
ssp. *ruficapillus* (Vieillot, 1819)

MHNG 1608,079 ♀ (APY) Aguadulce, Parc national Defensores del Chaco (C. Dlouhy) 26 AUG 1978. Skin.

MHNG 1732,039 ♂ (PHA) Route Transchaco au km 310 (C. Dlouhy) 4 FEB 1984. Skin.

Fringillidae

(4 species)

Hooded Siskin

Spinus magellanicus (Vieillot, 1805) (1)
ssp. *alleni* Ridgway, 1899

MHNG 1732,060 Un (PHA) Route Transchaco au km 293, Estancia Apendice (C. Dlouhy) 4 NOV 1988. Mounted.

Purple-throated Euphonia

Euphonia chlorotica (Linnaeus, 1766) (1)

ssp. *serrirostris* d'Orbigny & Lafresnaye,
1837

MHNG 1808,093 ♂ (PHA) Río Pilcomayo,
Poza Arias (C. Dlouhy) 12 AUG 1996. Skin.

Violaceous Euphonia

Euphonia violacea (Linnaeus, 1758) (4)
ssp. *aurantiicollis* W. Bertoni, 1901

MHNG 1630,075 ♂ (CAN) Salto del Guairá
(No collector) 30 OCT 1979. Skin.

MHNG 1731,062 ♂ (ITA) Arroyo Poromoco,
10 km sud (Estancia) Santa María (No
collector) 26 OCT 1982. Skin.

MHNG 1731,063 ♂ (ITA) Arroyo Poromoco,
10 km sud (Estancia) Santa María (No
collector) 27 OCT 1982. Skin.

MHNG 1731,064 ♂ (APA) Centro Forestal
Alto Paraná, 12 km ouest Ciudad del Este
(C. Dlouhy) 13 OCT 1984. Skin.

Chestnut-bellied Euphonia

Euphonia pectoralis (Vieillot, 1801) (1)

MHNG 1731,065 ♂ (APA) Río Itabó-Guazú
(C. Dlouhy) MAY 1990. Skin.

Passeridae

(1 species)

House Sparrow

Passer domesticus (Linnaeus, 1758) (4)

MHNG 1630,074 ♂ (AMA) Capitán Bado (No
collector) 26 OCT 1979. Skin.

MHNG 1732,061 ♂ (APA) 6 km nord de
Hernandarias (C. Dlouhy) 10 FEB 1983. Skin.

MHNG 1732,062 ♂ (CEN) San Lorenzo (No
collector) 6 MAR 1983. Skin.

MHNG 1762,068 ♀ (MIS) Arroyo Yabebyry
(No collector) 4 NOV 1991. Skin.

Discussion

This is a significant Paraguayan ornithological
collection, not only because of the good

number of specimens held and diversity of
species covered, but also because it contains
specimens from all of the political departments
(Table 2), with coverage of Presidente Hayes
(329 specimens), Concepción (246 specimens),
Boquerón (181 specimens) and Alto Paraná
(155 specimens) most thorough.

Nine species are represented by respectable
comparative series of > 20 specimens (*Turdus
amaurochalinus* 52, *Turdus rufiventris* 36,
Coryphospingus cucullatus 31, *Furnarius
rufus* 31, *Saltator coerulescens* 29, *Thraupis
sayaca* 27, *Lepidocolaptes angustirostris*
26, *Pitangus sulphuratus* 23 and *Icterus
pyrrhopterus* 23). Additionally, there are
strong representations of Tyrannidae (51
species), Thraupidae (34 species), Furnariidae
(29 species) and Picidae (15 species) in the
collection.

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Appendix 1

Gazetteer of localities mentioned in the text as provided in the museum database. The following translations may be understood Nord (North); Ouest (West); Est (East); Sud (South); Parc National (National Park); Barrage du Rio (River dam); Croisée (Junction); Route Transchaco au – (Transchaco Road at -); Baie (Bay); Embouchure (Mouth); avant (before); rive droite (right bank); rte (Ruta, or main road). Coordinates of localities should be considered approximate, especially where locality descriptions are vague.

Alto Paraguay (APY)

- À 2 km ouest d'Estancia Laguna General Diaz -21,133502 -58,519059
- Agua dulce, 90 km nord Fortin Madrejón -19,85536 -59,763985
- Agua dulce, Parc national "Defensores del Chaco" -20,217734 -60,296045
- Estancia Laguna General Diaz -21,133668 -58,500123
- Route Fortin Teniente Montanía-Fortin Madrejón, km 85 -21,332257 -59,840908
- Santo Domingo, 10 km nord de Teniente Montanía -21,968306 -59,948008
- Santo Domingo, 17 km nord de Teniente Montanía -21,968306 -59,948008
- Km 20 Teniente Montanía-Madrejón -21,884614 -59,939068

Alto Paraná (APA)

- 10 km nord de Hernandarias (ex Tati Yupi) -25,328649 -54,655038
- 30 km nord-est de Santa Fé del Paraná, ex Rio Itabo-Guazu -25,022548 -54,501432
- 6 km nord de Hernandarias -25,366888 -54,645079
- Arroyo Dos Hermanas -25,210527 -54,507919
- Arroyo Pira Pyta -25,277725 -54,722499
- Arroyo Pozuelo -24,522589 -54,369348
- Arroyo Santa Helena -25,607555

-54,961184

- CFAP (Centro Forestal Alto Parana), 12 km ouest Ciudad del Este (ex Puerto Presidente Stroessner) -25,49267 -54,795118
- Hernandarias -25,414165 -54,631432
- Lac Acaray (barrage du rio), 8 km sud Hernandarias -25,46647 -54,632788
- Lac Itaipu -25,277712 -54,558014
- Lac Itaipu, 10 km nord Hernandarias, arroyo Tati Yupi -25,33393 -54,654335
- Lac Itaipu, Vivero -25,44945 -54,628307
- Monte Armistiera (Puerto Armisticia), 25 km nord-ouest Itabo-guazu -24,85737 -54,670364
- Puerto Eirene, 10 km nord Puerto Palma -25,210527 -54,507919
- Rio Acaray, 30 km ouest Ciudad del Este -25,345465 -54,972911
- Rio Acaray, Paso Cadena -24,971797 -55,333765
- Rio Carapa -23,990289 -55,272242
- Rio Itabo-Guazu -25,022548 -54,501432
- Rio Monday, 10 km sud de Ciudad del Este -25,563911 -54,678083
- Rio Parana, Ciudad del Este -25,508529 -54,675323

Amambay (AMA)

- 15 km sud-est de Bella Vista -22,207864 -56,424868

- Arroyo Apa-Mi, Rte N° 3 à 10 km au sud-est de Bella Vista -22,169459 -56,450927
- Capitán Bado -23,263083 -55,546282
- -21,127405 -59,755883
- Route Transchaco au km 680, Estancia Patria -21,457059 -61,379925
- Route Transchaco au km 702 -21,076952 -61,736955

Boquerón (BOQ)

- 5 km nord Filadelfia -22,302917 -60,033096
- 15 km nord-est Fortin Boqueron -22,690106 -59,855686
- 20 km est de Pozo Colorado/Puerto Militar -23,491582 -58,589181
- Croisée Filadelfia/ Mariscal Estigarribia, km 415 Transchaco -22,465038 -60,05332
- Estancia Juy (Yuí), région Pilcomayo, -23,716667 -59,95
- Estancia La Conquista, Pratt Gill -22,559983 -61,709594
- Estancia La Dorada, Pilcomayo -23,533333 -60,466667
- Estancia Partex, 40 km ouest Fortin Teniente Agripino Enciso -21,219082 -62,02554
- Filadelfia -22,33188 -60,027245
- Fortin Teniente Agripino Enciso -21,218328 -61,644118
- Mariscal Estigarribia -22,036611 -60,616902
- Montanía km 17 -21,90405 -59,93542
- Pozo Hondo -22,366794 -62,517934
- Pratt Gill -22,559212 -61,611374
- Rio Pilcomayo à Pedro P. Peña -22,449842 -62,349977
- Route Teniente Montanía-Madrejón -21,548748 -59,830621
- Route Transchaco au km 540 -22,333527 -60,263992
- Route Transchaco au km 575 -21,402485 -59,859518
- Route Transchaco au km 610

Caaguazú (CAA)

- 20 km nord Coronel Oviedo -25,234333 -56,450301
- Arroyo Güiragua, 3 km est Juan M. Frutos -25,380056 -55,799732
- Arroyo Hondo, 10Km nord-est de Carayao -25,120489 -56,351696
- Arroyo Yukuyry, 17 km sud Yhu -25,203036 -55,976337
- Juan O'Leary -25,420712 -55,380748
- Km 230, rte N° 7, à 10 km est Campo 8 -25,406731 -55,562134

Caazapá (CAZ)

- Arroyo Moroti à 10 km au sud-est de Tavai -26,535728 -56,267928
- Arroyo Yta-Y à 8 km à l'est de San Juan Nepomuceno -26,122028 -55,863476
- Arroyo Yvira-Pari, 2 km est Tavai -26,481811 -56,326223

Canindeyú (CAN)

- Rio Carapá -23,990289 -55,272242
- Salto del Guairá -24,056585 -54,308465

Central (CEN)

- 5 km est San Lorenzo, Colonia Thompson -25,462349 -57,51581
- Asunción -25,28 -57,63
- Baie d'Asunción (sic) -25,266862 -57,631599
- Colonia Thompson, 10 km sud San Lorenzo -25,462349 -57,51581
- Rio Paraguay, San Antonio -25,409746

-57,577037

- San Lorenzo -25,299934 -57,487599
- Villeta -25,512626 -57,547945

Concepción (CON)

- 10 km Estancia Santa Sofia -22,334115 -57,052711
- 11 km à l'est de l'Estancia San Luis de la Sierra -22,256 -57,27
- 20 km sud de Puente Zinho [sic = Puentesinho], Colonia Sargento José F. Lopez -22,498597 -56,862491
- 5 km Estancia Santa Sofia (Estancia Sofia) -22,332223 -57,100008
- 60 km sud Puente Zinho [sic = Puentesinho] -22,814076 -56,845574
- Arroyo Allegre (5 km E de Estancia Primavera) -23,083966 -56,599852
- Arroyo Azotey, km 230 -23,862842 -56,513484
- Arroyo Azotey, rte N° 3 à 1 km au nord de Cororo -23,431845 -56,492226
- Arroyo Tagatiya-Guazu (2 km SE de Estancia Santa María) -22,758876 -57,448924
- Arroyo Tagatiya-Mi, 15 km nord-ouest Estancia Santa María -22,685917 -57,575117
- Arroyo Trementina -23,067222 -57,05028
- Embouchure Rio Aquidabán -23,11212 -57,624161
- Estancia Estrellas, Arroyo Allegre -22,138636 -57,738724
- Estancia Laguna Negra, 15 km est Paso Barreto -23,067821 -57,109969
- Estancia Primavera -23,083333 -56,65
- Estancia Santa Sofia (Estancia Sofia) -22,333672 -57,1498
- Piquete-Cué -23,402901 -57,429249
- Puente Zinho [sic = Puentesinho], Co-

lonia Sgto José E. Lopez -22,379601 -56,91103

- Reyes-Cue -22,347947 -57,307096
- Riacho La Paz, 20 km sud Estancia Estrellas -22,349795 -57,692281
- Rio Salado -23,402901 -57,429249
- Rio Ypane, Belen -23,46611 -57,26194
- Tagatiya-Guazu, 2 km sud-est Santa María -22,758876 -57,448924

Cordillera (COR)

- Arroyo Yacaroyosa, Caacupé -25,155162 -57,25007
- Rio Piribebuy, 5 km nord Emboscada Nueva -25,077756 -57,354943
- Rio Salado -25,228949 -57,011168
- Salto Pirareta -25,509057 -56,925732
- Tobati -25,278584 -57,088023

Guairá (GUA)

- Arroyo Ovie, rte N° 8, à 10 km sud Villarica -25,854957 -56,458911
- Arroyo Yhaca-Mi, à 4 km au nord Numi -25,914745 -56,334125
- Villarrica -25,78447 -56,450699

Itapúa (ITA)

- 4 km amont Salto Tembey -26,67787 -54,991765
- 10 km au sud Estancia Santa María -26,950701 -55,750086
- Arroyo Agua-Pey, 52 km nord-ouest Encarnacion -27,134126 -56,283636
- Arroyo Pirayu-i -26,792362 -55,668964
- Arroyo Poromoco, San Benito (Pastoreo), 15 km nord-est de Estancia Santa María -26,810821 -55,72008
- Arroyo Poromoco, 10 km sud (Estancia) Santa María -26,991317 -55,819943

- Arroyo Tagatiya-Guazu, 2 km sud-est Estancia Santa María -22,758876 -57,448924
- CAICISA (Tembey San Rafael) -26,318365 -55,223818
- Estancia Santa María -26,9 -55,816667
- Salto Tembey -26,667241 -54,959672

Misiones (MIS)

- 25 km sud Villa Florida -26,618761 -57,106013
- Arroyo Yabebry -27,279363 -57,060991
- Panchito Lopez -27,388647 -57,302582
- Rio Aguaray, 30 km sud-est de San Juan Bautista -26,848103 -56,908674

Ñeembucú (ÑEE)

- 5 km nord-ouest de Pilar -26,830545 -58,32274
- 18 km est de San Lorenzo -26,783719 -57,485105

Paraguarí (PAR)

- Arroyo Mbaey, 3 km nord de Carapegua -25,733333 -57,2
- Caballero -25,701041 -56,84758
- Estancia Montiel Potrero, 15 km est de Cerrito -26,394815 -57,314398
- Lago Ypoá, Estancia Monitor -26,04068 -57,379557

Presidente Hayes (PHA)

- 15 km est de Pozo Colorado -23,488981 -58,644609
- 20 km est de Pozo Colorado -23,491582 -58,589181
- 25 km est de Pozo Colorado/Puerto Militar -23,494705 -58,539707
- 85 km de Pozo Colorado -23,513095 -57,970565

- Chaco-í -25,255256 -57,63981
- Estancia Las Margaritas, région Tifunké (Tinfunké) Pilcomayo -23,533333 -60,466667
- Km 25 ouest Puerto Militar, route Pozo Colorado -23,482432 -57,700434
- Km 30 ouest Puerto Militar, route Pozo Colorado -23,514317 -57,738665
- Km 35 ouest Puerto Militar, route Pozo Colorado -23,518572 -57,779638
- Km 120 rte Pozo Colorado/Puerto Militar -23,473105 -57,647012
- Pozo Colorado -23,495495 -58,793172
- Rio Paraguay, km 185 -21,315504 -57,903735
- Rio Paraguay, km 492 (rive droite) -23,056252 -57,829504
- Rio Paraguay, km 640 (rive droite) -23,91131 -57,322121
- Rio Pilcomayo, Pozo Arias -23,65 -60,1
- Rio Siete Puntas, 5 km avant Pozo Colorado -23,535154 -58,77073
- Route Transchaco au km 50 -24,908917 -57,630198
- Route Transchaco au km 70 -24,808528 -57,773954
- Route Transchaco au km 80 -24,76348 -57,862988
- Route Transchaco au km 95 -24,687366 -57,975579
- Route Transchaco au km 100 -24,608312 -58,027072
- Route Transchaco au km 110 -24,525028 -58,033331
- Route Transchaco au km 115 -24,484402 -58,052743
- Route Transchaco au km 117, Rio Aguaray-Guazu -24,467997 -58,046481
- Route Transchaco au km 120

- 24,442404 -58,044743
 - Route Transchaco au km 137
-24,343731 -58,166208
 - Route Transchaco au km 148
-24,298864 -58,254002
 - Route Transchaco au km 149
-24,292374 -58,258547
 - Route Transchaco au km 150
-24,283996 -58,262255
 - Route Transchaco au km 160
-24,202853 -58,298349
 - Route Transchaco au km 170
-24,127057 -58,321878
 - Route Transchaco au km 175
-24,088694 -58,345482
 - Route Transchaco au km 178
-24,065841 -58,361085
 - Route Transchaco au km 180
-24,050773 -58,371885
 - Route Transchaco au km 185
-24,014127 -58,402355
 - Route Transchaco au km 195
-23,933886 -58,440357
 - Route Transchaco au km 204
-23,853999 -58,457119
 - Route Transchaco au km 205
-23,853999 -58,457119
 - Route Transchaco au km 210, Rio
Montelindo -23,820982 -58,490545
 - Route Transchaco au km 212, Rio
Montelindo -23,807999 -58,50222
 - Route Transchaco au km 230
-23,71362 -58,6374
 - Route Transchaco au km 235 (rive
droite) -23,682881 -58,672884
 - Route Transchaco au km 248
-23,589929 -58,731808
 - Route Transchaco au km 250
-23,577295 -58,747344
 - Route Transchaco au km 283
-23,433764 -58,898468
 - Route Transchaco au km 293, Estancia
Apendice -23,40034 -58,985014
 - Route Transchaco au km 300
-23,372938 -59,047035
 - Route Transchaco au km 310, Rio
Salado-i -23,31567 -59,115863
 - Route Transchaco au km 313, Rio
Salado-i (Arroyo Mborevi) -23,29596
-59,137006
 - Route Transchaco au km 316, Rio
Sombrero-Piri -23,277108 -59,157208
 - Route Transchaco au km 320
-23,247483 -59,180293
 - Route Transchaco au km 325, Rio
Verde -23,20701 -59,200822
 - Route Transchaco au km 330
-23,162247 -59,211457
 - Route Transchaco au km 340
-23,075156 -59,2318
 - Route Transchaco au km 350
-23,006842 -59,297919
 - Route Transchaco au km 400
-22,739333 -59,677327
- San Pedro (SPE)**
- Rio Jejui-Guazu, rte N° 3 -24,100758
-56,450891

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Los trabajos deberán respetar las disposiciones de los códigos de nomenclatura Zoológica y Botánica vigentes. Los nombres científicos deben escribirse en itálicas. Se sugiere que los nombres científicos se escriban completos, incluyendo autor(es), al menos la primera vez que se mencionan. La citación de autores de nombres científicos es obligatoria en trabajos de índole taxonómico. Los nombres genéricos al principio de una oración deben escribirse completos.

Las citas bibliográficas deberán hacerse de acuerdo a los siguientes ejemplos: López (1992) o (López, 1992). Cuando un trabajo tiene dos autores se mencionarán ambos apellidos y cuando sean más se citará como en los ejemplos: López *et al.* (1991) o (López *et al.*, 1991).

En la sección Literatura se deben incluir los trabajos citados en el manuscrito o que merecen mención justificada por su importancia en el tema tratado. Las referencias deben ir por orden alfabético y cronológico y cada una siguiendo el modelo de secuencia: Autor. Año. Título. Publicación serial o Casa editora y Ciudad, Volumen (Número): Intervalo o total de páginas. Abajo hay algunos ejemplos:

Polazek, A., Abd-Rabou, S. & Huang, J. (1999). The Egyptian species of *Encarsia* (Hymenoptera: Aphelinidae). *Zoologische Medelingen*, 73(1): 131–163.

Richards, O.W. (1978). *The social wasps of the Americas excluding the Vespinae*. London, UK: British Museum (Natural History). 580 pp.

Hanson P. & Gauld, I.D. (Eds.). (1995). *The Hymenoptera of Costa Rica*. Oxford, UK: The Natural History Museum, London. 893 pp.

Hanson, P. & Menke, A.S. (1995). The sphecic wasps (Sphecidae). Pp. 621–646, in Hanson, P. & Gauld, I.D. (Eds.). *The Hymenoptera of Costa Rica*. Oxford, UK: The Natural History Museum, London. 893 pp.

CoreoideaSF Team. (2016). *Coreoidea Species File Online*. Version 5.0/5.0. [Consulted: 17.vii.2016]. <<http://Coreoidea.SpeciesFile.org>>.

Adobe. (2010). Adobe® Illustrator® CS5. Versión 15.0.0. Program for Microsoft Windows™ Environment.

Instructions to authors

The Boletín del Museo Nacional de Historia Natural del Paraguay is published a volume a year, divided in two numbers. The manuscripts received as late as April 1 are to be considered for the June edition closure (nº 1) and those received as late as October 1 for the December edition closure (nº 2). Nonetheless, delivery of a manuscript along a certain period does not guarantee its publication in the very next edition, depending it on the time taken by the revisionary process. The papers will be published online at different dates as they are ready, and the series of papers published along a semester will constitute the body of the corresponding number. A double number volume will be published in December if no papers were available to complete of June edition.

The editorial accepts original or revisional research papers on several aspects of Botany, Zoology, Paleontology and Descriptive Geology, covering the Neotropical Region, preferably Paraguay and neighbouring areas. Papers wrote in Spanish, Portuguese or English will be accepted. The opinions given in the papers are entire responsibility of their respective authors and not necessarily reflect the ideals of the member of the editorial team.

The manuscripts should be submitted as electronic files in Microsoft Word format, in A4 size paper with 25 mm margins and text in Times New Roman font, size 11. Footnotes will not be accepted.

Figures should be submitted as original numbered electronic files with good resolution (300 dpi for graded colors/grayscale and 600 dpi for flat colors/flat black and white); in JPG, TIF or PNG format. The figure legends must go in a separate page, clearly indicating the reference numbers of the original illustrations or files. Tables should be sent separately as electronic files made in Microsoft Excel format.

All the documentation related to the manuscript must be sent to the e-mail address of the Boletín: boletin.mnhnp@gmail.com. Authors are asked to provide name, address and e-mail of at least two potential referees.

The first page of the manuscript must contain the following data: **1)** short and concise title, **2)** full name of the author(s) [at least one of the first names and one of the last names of each author must be spelled out completely], **3)** complete address of the author(s), including e-mail address(es) if available, **4)** abstract, and **5)** key words. **Title, abstract and key words will be presented in both English and Spanish versions (the two latter to be called *resumen* and *palabras clave* in the Spanish version).**

The manuscript body could be composed by the following ordered parts, each one clearly entitled: **1)** Introduction, **2)** Materials and Methods, **3)** Results and Discussion, **4)** Conclusions, **5)** Acknowledgements and **6)** Literature. Modifications could be accepted if they follow a logic sequence equivalent to the one here proposed.

Papers must respect the rules of the codes on Zoology and Botany in force. Scientific names must be in italics. It is suggested that scientific names should be mentioned complete, including author(s) at least in the first mention. Authority is mandatory in taxonomic papers. Generic names must be completely spelled at the beginning of a sentence.

References in the text should follow the examples: López (1992), or (López, 1992). Papers with two authors should mention both names, and papers with more authors should follow the examples: López *et al.* (1991), or (López *et al.*, 1991).

The Literature section must include all the works referred in the text and could include those with justified influence on the subject. References should go in alphabetic and chronologic order, each one according to the following model: Author. Year. Title. Serial publication or editorial house and city, Volume (Number): Page range or total. Examples are given below:

Polazek, A., Abd-Rabou, S. & Huang, J. (1999). The Egyptian species of *Encarsia* (Hymenoptera: Aphelinidae). *Zoologische Medelingen*, 73(1): 131–163.

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