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BOLETÍN

DEL

MUSEO NACIONAL DE HISTORIA NATURAL DEL PARAGUAY

PARAGUAYAN BIRD SPECIMENS IN THE "IBIS" COLLECTION, PILAR, DEPTO. ÑEEMBUCÚ

PAUL SMITH, KARINA ATKINSON & YOLANDA E. DAVIES



UN HOMENAJE A DOS VIDAS DEDICADAS A LA CIENCIA PARAGUAYA

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EDITORIAL

Un homenaje a dos vidas dedicadas a la ciencia paraguaya

El presente número especial pretende honrar la memoria de dos investigadores argentinos que han hecho de nuestro país su segunda patria y que sobresalieron en su dedicación a la ciencia paraguaya y de forma particular en los estudios sobre el departamento de Ñeembucú: Julio R. Contreras (1933-2017) y su hijo Andrés Contreras (1960-2013).

Julio Rafael Contreras, naturalista, incursionó sobre todo en la zoología y la historia de la ciencia. Se destacó grandemente por sus estudios acerca de los roedores fosoriales del género *Ctenomys*, además de sus contribuciones a la ornitología, teniendo a Argentina y Paraguay como sitios de trabajo y objeto de sus publicaciones científicas. Describió a dos de los tres mamíferos considerados endémicos del Paraguay, *Ctenomys pilarensis* y *Ctenomys paraguayensis*). Así también, además de sus contribuciones zoológicas publicó libros acerca de figuras importantes de la historia natural paraguaya y regional, como ser Félix de Azara, Aimé Bonpland y Arnaldo de Winkelried Bertoni.

Andrés Óscar Contreras, zoólogo, realizó la mayor parte de su carrera profesional en Pilar-Ñeembucú, en donde se radicó a inicios de la década de 1990, allí se centró en la docencia y la educación ambiental y así también en el estudio de la fauna de lepidópteros del departamento de Ñeembucú, sobre los que publicó numerosas obras. Andrés llevó adelante numerosos proyectos buscando generar conciencia ambiental y valoración de los recursos naturales locales por parte de la comunidad pilarense. Junto a su padre y su hermana Yolanda Davies, realizó innumerables campañas para coleccionar aves y micromamíferos en toda la región.

Julio y Andrés, llevaron adelante el Instituto de Biología e Investigación Subtropical (IBIS), dependiente de la Universidad Nacional de Pilar y que fue el depositario de numerosas colectas desarrolladas en Paraguay.

En el 2013, luego del temprano fallecimiento de Andrés, surgió la posibilidad de realizar un libro colegiado dedicado a su memoria; gracias a la gestión de Paul Smith se recopilieron varios manuscritos, sobre todo siguiendo el hilo conductor de tratarse acerca del Dpto. de Ñeembucú. Por diversos motivos el proyecto no prosperó, sin embargo, estos trabajos se publicaron en el volumen 20 del Boletín del Museo Nacional de Historia Natural del Paraguay, pero el homenaje no quedó del todo explícito.

Este número especial del Boletín está íntegramente compuesto por el catálogo de las aves depositadas en la colección del IBIS. Con más de mil ejemplares, se trata de la segunda colección ornitológica más grande de Paraguay, siendo superada en número solo por la del Museo Nacional de Historia Natural del Paraguay. La colección está mayormente compuesta por ejemplares colectados en Ñeembucú, lo que le da un valor agregado por su enfoque a nivel regional.

Hoy día la colección IBIS se encuentra bajo el cuidado de la Fundación Para La Tierra y su Centro IDEAL, organización que continúa arduamente con los trabajos, tanto científicos como de educación ambiental y conservación, iniciados en Ñeembucú por la familia Contreras.

Sergio D. Ríos
Editor Asociado





Paraguayan bird specimens in the “IBIS” collection, Pilar, dep. Ñeembucú

Especímenes de aves paraguayas en la colección “IBIS”, Pilar, dep. Ñeembucú

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Abstract.- A catalogue of the Paraguayan specimens in the “IBIS” collection, Pilar is provided. A total of 1164 Paraguayan specimens of 216 species are represented in the collection, approximately 30.29 % of the Paraguayan avifauna. The importance of the collection is highlighted, particularly in view of the fact that almost half of the specimens are from the poorly sampled Ñeembucú department. The need for further collecting and its role in the development of Paraguayan ornithology are emphasized. A full gazetteer of collecting localities is given as an appendix.

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

Resumen.- Se presenta un catálogo de las aves Paraguayas en la Colección “IBIS”, Pilar. Se comprende de 1164 ejemplares de 216 especies, aproximadamente 30.29 % de la avifauna Paraguaya. Se resalta la importancia de la colección, notando que casi la mitad de los ejemplares provienen del poco conocido departamento de Ñeembucú. Se enfatiza la necesidad de realizar más colectas y el importante papel de las colecciones en el desarrollo de ornitología en Paraguay. Se incluye en un apéndice un diccionario geográfico completo de las localidades de colecta.

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

Despite a long and proud history in the collection of natural history specimens, Paraguay has a rather less impressive record in the preservation of its national collections. Several notable ornithological collections have perished due to inadequate curation following the death of their founders, in many cases before these were properly studied or documented, including those of Arnaldo de Winkelried Bertoni and the initial collection of the Revista de la Sociedad Científica del Paraguay, of which only fragments remain. Though, perhaps fortunately, many Paraguayan specimens are housed in large international natural history collections (Hayes 1995), very few ornithological collections currently exist in Paraguay and those that do are suffering from the same lack of resources for their preservation that has contributed to the loss of valuable collections in the past. Bearing this in mind, the documentation of the contents of existing collections in the scientific literature

takes on a singular importance which, whilst being no replacement for the proper long term preservation of these vital sources of biological data, at least ensures that the collection data survives in the public sphere.

The present IBIS collection consists of part of the results of the field campaigns by Professor Julio Contreras, Andres Contreras and Yolanda E. Davies during the late 1980s and 1990s. It represents one of the few sustained ornithological collection campaigns in Paraguay in modern times. The partial results of some of these field expeditions have been previously published (Contreras, 1989; Contreras & González-Romero, 1989b; Contreras *et al.* 1989), but these do not directly reference the specimens collected and for this reason we document the contents of the surviving Paraguayan collection. Legal responsibility for the collection lies with the Universidad Nacional de Pilar, but it is currently housed at



the Fundación Para La Tierra Centro IDEAL (Investigación, Desarrollo, Educación Ambiental y Liderazgo) (ex-IBIS Institute), Pilar, Ñeembucú department.

Methods

The collection was reviewed by the first and second author during September 2018 to February 2019. Specimen numbers on the specimen tags are either in the form of a catalogue number (beginning either CE0... or EBÑ0...), or when these do not exist, a field number (beginning with the last two digits of the year of collection eg 95...). The future of the collection remains uncertain, so we elected not to apply new standardised catalogue numbers to avoid further confusion, though we recommend that these be applied as soon as the collection finds a permanent home.

The following abbreviations are used in the catalogue:

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

Paraguayan Departments: (APA) Alto Paraná; (BOQ) Boquerón; (CAN) Canindeyú; (CEN) Central; (CON) Concepción; (COR) Cordillera; (MIS) Misiones; (ÑEE) Ñeembucú; (PAR) Paraguari; (PHA) Presidente Hayes; (SPE) San Pedro.

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

Threat status: ^{NT} Near Threatened (Birdlife International, 2019).

Collector/Preparator: AOC: Andres Oscar Contreras; JRC: Julio Rafael Contreras Roque; YED: Yolanda Ester Davies. Where data is available for only one of these it is presented as Col. XYZ (Collector) or Prep. XYZ (Preparator). Where no data is available for either it is presented as (No coll.).

Specimens of a single species are hierarchically ordered by department, locality and specimen number. Species marked * represent additions to the avifauna for Ñeembucú department according to distribution maps in Guyra Paraguay (2005). Taxonomy follows Remsen et al. (2019). A gazetteer for the localities is provided in the appendix, though no coordinates are provided with the collection data and thus they should be treated as approximate.

The IBIS (Instituto de Bioecología e Investigación Subtropical) collection contains additional specimens from Argentina, Bolivia and Brazil which are not listed here, as well as several specimens for which field numbers are written on the specimen label but for which no data could be traced.

An attempt is made to cross reference some specimens to the published literature, but this should not be considered a complete reference list. All specimens collected at Estancia Coë Pyahú (BOQ) are those referred to in Contreras (1989). Specimens collected in Paraguari at and around Lago Ypoá during the 1980s are those referred to in Contreras *et al.* (1989). Specimens with collection locality “Pozo Colorado” collected in September 1986 are not those “collected in the last week of September” cited by Contreras & Mandelburger (1985).

Results

A total of 1164 Paraguayan specimens of 216 species are represented in the collection, representing approximately 30.29 % of the Paraguayan avifauna. All specimens are preserved as skins. The geographic distribution of the collection by department is shown in Table 1. There are no specimens in the collection from the following departments: Alto Paraguay, Amambay, Caaguazú, Caazapá, Guairá or Itapúa.

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 endemics for that eco-region in parentheses): Atlantic Forest

11(14.5%); Cerrado 1 (8.3%); Chaco 5 (27.8%). No globally threatened species are present in the collection, and just two near threatened species (*Eleothreptus anomalus* and *Polystictus pectoralis*) are represented.

Table 1. Geographic distribution of specimens by political department and percentage of the total collection that they represent.

Department	Number of specimens	Percentage of total
Alto Paraná (APA)	37	3,18
Boquerón (BOQ)	62	5,33
Canindeyú (CAN)	42	3,61
Central (CEN)	25	2,15
Concepción (CON)	6	0,52
Cordillera (COR)	86	7,39
Misiones (MIS)	74	6,36
Ñeembucú (ÑEE)	574	49,31
Paraguari (PAR)	143	12,11
Presidente Hayes (PHA)	116	9,97
San Pedro (SPE)	1	0,09
Total	1164	

TINAMIDAE
(4 species)

Small-billed Tinamou

Crypturellus parvirostris (Wagler, 1827) (1)
CE007764 ♂ (APA) Itabó Itaipú (YED/
YED) 06 AUG 1992

Tataupa Tinamou

Crypturellus tataupa (Temminck, 1815) (1)
ssp. *tataupa* (Temminck, 1815)
CE008889 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (JRC/YED) 16 JUL
1993

Red-winged Tinamou

Rhynchotus rufescens (Temminck, 1815) (2)
ssp. *pallescens* Kothe, 1907
CE009902 ♀ (ÑEE) Villalbín (AOC/YED)
04 OCT 1994
ssp. *rufescens* (Temminck, 1815)
CE007635 ♂ (SPE) 6 km E Puerto Ybapobo
(N. González/YED) 06 SEP 1981
CE007635 from the Cerrado zone has the strong-
ly reddish neck of the nominate subspecies.
CE009902 from Ñeembucú has a paler neck
typical of *R. r. pallescens* Kothe, 1907.

Spotted Nothura

Nothura maculosa (Temminck, 1815) (4)
ssp. *maculosa* (Temminck, 1815)
CE008588 ♀ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 MAY 1993
CE008981 ♀ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 04 SEP 1993
CE008991 ♀ (ÑEE) Gavor Cue (Fernando
Arce/YED) 10 SEP 1993
CE008719 ♂ (PAR) Mburicá, Sapucaí (Fer-
nando Arce/YED) 10 JUL 1993

The specimens are tentatively ascribed to *N. m. maculosa* on account of the pale yellowish underparts, and black and rufescent colouration of the dorsum.

COLUMBIDAE
(7 species)

Picazuro Pigeon

Patagioenas picazuro (Temminck, 1813) (2)
ssp. *picazuro* (Temminck, 1813)
CE008921 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993
CE009101 ♂ (ÑEE) Isla Hú, 17 km NE Pilar

(AOC/YED) 06 NOV 1993

Pale-vented Pigeon

Patagioenas cayennensis (Bonaterre, 1792)
(1)

ssp. *sylvestris* (Vieillot, 1818)

CE004009 ♂ (CAN) 17 km SE Ygatimí
(JRC/YED) 16 FEB 1988

White-tipped Dove

Leptotila verreauxi (Bonaparte, 1855) (9)

ssp. *chalcauchenia* Sclater & Salvin, 1870

CE005394 ♂ (BOQ) Estancia Coë Pyahú
(No coll.) 10 SEP 1989

CE004614 ♀ (MIS) Corate-i, Ayolas (No
coll.) 16 FEB 1989

97MP0269 ♂ (ÑEE) Boquerón (Col. AOC)
17 MAR 1997

CE008631 ♂ (ÑEE) Estancia Paso Pucú,
Curupyty (AOC/YED) 06 AUG 1993

95OP094 Un (ÑEE) Isla Hú (AOC/YED)
15 OCT 1995

99PM025 ♂ (PAR) Lago Ypoá (AOC/YED)
06 MAY 1999

CE002643 ♂ (PAR) Tarumá Playa, Lago
Ypoa (AOC/YED) 27 AUG 1986

CE002644 ♀ (PAR) Tarumá Playa, LagoY-
poá (JRC/YED) 28 AUG 1986

CE002870 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986

Eared Dove

Zenaida auriculata (Des Murs, 1847) (1)

ssp. *chrysauchenia* Reichenbach, 1847

CE006633 ♀ (PHA) Estancia Villa Rey
(JRC/YED) DEC 1990

Ruddy Ground Dove

Columbina talpacoti (Temminck, 1811) (18)

ssp. *talpacoti* (Temminck, 1811)

CE004670 ♀ (CAN) Puente Kyhá, F Ca-
ballero d'Álvarez (JRC/YED) 13 JAN
1989

CE004678 ♂ (CAN) Puente Kyhá, F Cabal-
lero d'Álvarez (JRC/YED) 15 JAN 1989

CE003208 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 07 JAN 1987

CE006723 ♀ (COR) La Escondida, 7 km
NE Eusebio Ayala (YED/YED) 27 JAN
1991

CE006745 ♂ (COR) Parque Nacional Vapor
Cué (AOC/YED) 25 JAN 1991

EBÑ0003 ♂ (ÑEE) Riacho Cai Mbocá, 5km
S Mburicá (AOC/YED) 14 JAN 1992

CE008910 ♀ (ÑEE) Puerto Arara'a, Rio
Paraguay (JRC/YED) 18 APR 1993

CE008919 ♂ (ÑEE) Puerto Arara'a, Rio
Paraguay (JRC/YED) 18 APR 1993

CE007663 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 14 JAN 1992

CE007933 ♂ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 17 SEP 1992

CE007959 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (JRC/YED) 14 JAN 1992

CE003954 ♂ (PAR) Laguna Lugo 7 km S
Paraguari (JRC/YED) 22 OCT 1987

CE003957 ♂ (PAR) Laguna Lugo 7 km S
Paraguari (YED/YED) 22 OCT 1987

CE005457 ♂ (PAR) Mbocáyá, Sapucaí
(JRC/YED) 15 NOV 1989

CE005458 ♀ (PAR) Mbocayá, Sapucaí
(JRC/YED) 16 NOV 1989

CE002781 ♀ (PAR) Puesto Taruma Fondo,
Lago Ypoá (AOC/YED) 29 AUG 1986

CE006627 ♂ (PHA) Casco Estancia Guy
(JRC/YED) 10 DEC 1990

CE002853 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

Scaled Dove

Columbina squammata (Lesson, 1831) (2)

ssp. *squammata* (Lesson, 1831)

CE005312 ♀ (BOQ) Estancia Coë Pyahú
(AOC/YED) 10 SEP 1989

CE004666 ♀ (CAN) Puente Kyhá, F Ca-
ballero d'Álvarez (AOC/YED) 16 JAN
1989

These are the specimens referred to in Contreras
& González-Romero (1989a).

Picui Ground Dove*Columbina picui* (Temminck, 1813) (13)ssp. *picui* (Temminck, 1813)CE004008 ♂ (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988CE004031 ♀ (BOQ) Fortín Toledo (YED/
YED) 25 FEB 1988CE003265 ♀ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 07 JAN 198796-JP034 ♂ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 15 JUN 199696-JP036 ♀ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 13 JUN 199696-JP048 ♀ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 14 JUN 199698FP0336 ♂ (ÑEE) Camba Cuá, Isla Umbú
(Col. AOC) 21 FEB 1998CE008079 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992CE008078 ♂ (ÑEE) Riacho Ñeembucú
(AOC/YED) 17 JAN 1992CE003955 ♂ (PAR) Laguna Lugo 7 km S
Paraguari (YED/YED) 22 OCT 1987CE006405 ♂ (PHA) Casco Estancia Guy
(JRC/YED) 09 DEC 1990CE006632 ♂ (PHA) Casco Estancia Guy
(JRC/YED) 10 DEC 1990CE002850 ♂ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986**CUCULIDAE**

(5 species)

Guira Cuckoo*Guira guira* (Gmelin, 1788) (1)92EP0103 ♂ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992**Smooth-billed Ani***Crotophaga ani* Linnaeus, 1758 (3)88PF033 ♂j (CAN) 17 km SE Ygatimí
(YED/YED) 16 FEB 1988CE004645 ♀ (CAN) Puente Kyhá, F Ca-
ballero d'Álvarez (AOC/YED) 14 JAN
1989CE005558 ♀ (PAR) Mbocayá, Sapucaí (No
coll.) 15 NOV 1989**Striped Cuckoo***Tapera naevia* (Linnaeus, 1766) (5)CE007544 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992CE008584 ♂j (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993CE007395 ♀j (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 17 JAN 1992CE007413 ♀j (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992CE003381 ♂ (PAR) Puesto Cerro Lima,
Lago Ypoá (AOC/YED) 27 AUG 1986**Ash-coloured Cuckoo***Coccyua cinerea* (Vieillot, 1817) (2)EBÑ00010 Un (ÑEE) Paso Lengá, Tres
Bocas (AOC/YED) 20 JAN 199293AP036 ♂ (ÑEE) Tacuaras (AOC/
YED) 02 APR 1993**Dark-billed Cuckoo***Coccyzus melacoryphus* Vieillot, 1817 (2)CE005556 ♀ (PAR) Mbocayá, Sapucaí
(JRC/YED) 15 NOV 1989. Broken lower
mandible and overgrown culmen.CE005557 ♂ (PAR) Mbocayá, Sapucaí
(JRC/YED) 16 NOV 1989**CAPRIMULGIDAE**

(6 species)

Common NighthawkChordeiles minor* (Forster, 1771) (3)ssp. cf. *chapmani* Coues, 1888CE006688 ♀ (COR) La Escondida, Eusebio
Ayala (AOC/YED) 29 JAN 1991Wing: 180 mm; Bill length: 7.6 mm; Tarsus:
22.9 mm; Tail: 106 mm.Total length: 225 mm; Wing span: 540 mm;
Mass: 58.5 g.CE007334 ♂ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 15 JAN 1992

Wing: 189 mm; Bill length: 5.4 mm; Tarsus: 17.7 mm; Tail: 118 mm.

Mass: 58.5 g.

CE007399 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992

Wing: 189 mm; Bill: 7.0 mm; Tarsus: 22.1 mm; Tail: 93 mm.

Total length: 230mm; Wing span: 567mm, Mass: 37.5 g.

Specimens and measurements (provided above) are broadly consistent with *C. m. chapmani*, to which some Paraguayan specimens have previously been assigned (Brodkorb 1938).

Band-winged Nightjar

Stellura longirostris (Bonaparte, 1825) (1)

ssp. *bifasciatus* (Gould, 1837)

CE005317 ♀ (BOQ) Fortín Teniente Rivarola (AOC/YED) 09 SEP 1989

This is the specimen referred to in Contreras & González-Romero (1991).

*Common Pauraque

Nyctidromus albicollis (Gmelin, 1789) (3)

ssp. *derbyanus* (Gould, 1838)

CE004683 ♂ (MIS) Estancia Guarepyá, Santiago (No coll.) 20 JAN 1989

CE011269 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993

CE008980 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993

Sickle-winged Nightjar

Eleothreptus anomalus^{NT} (Gould, 1837) (1)

CE010571 ♀ (COR) Valenzuela (No coll.) 27 OCT 1995

Specimen CE010571 is the first documentation of the species from Cordillera department.

Little Nightjar

Setopagis parvula (Gould, 1837) (14)

CE003929 ♀ (BOQ) Fortín Toledo (YED/YED) 25 FEB 1988

CE004059 ♀ (CEN) Ñu Guazú, Asunción

(YED/YED) 21 OCT 1987

CE004060 ♂ (CEN) Ñu Guazú, Asunción (YED/YED) 23 OCT 1987

CE006682 ♂ (COR) 8 km NE Eusebio Ayala (AOC/YED) 29 JAN 1991

CE003296 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 07 JAN 1987

CE006681 ♀ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991

CE004766 ♀ (MIS) Estancia San Vicente, Santiago (No coll.) 14 FEB 1989

CE008575 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993

CE008576 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

CE007396 ♂ (ÑEE) Paso Lengá, Tres Bocas (Rafael González & JRC/YED) 22 JAN 1992

CE007850 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992

CE003298 ♀ (PHA) 20 km N Villa Hayes (AOC/YED) 06 JAN 1987

CE002844 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

CE003299 ♂ (PHA) Riacho Pucu, Rio Paraguay (JRC/YED) 06 JAN 1987

Scissor-tailed Nightjar

Hydropsalis torquata (Gmelin, 1788) (5)

ssp. *furcifer* (Vieillot, 1817)

CE005389 ♂ (BOQ) 13 km SE General Eugenio Garay (AOC/YED) 11 SEP 1989

CE005401 ♀ (BOQ) 13 km SE General Eugenio Garay (AOC/YED) 11 SEP 1989

CE005318 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

93AP0284 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

86AP058 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 29 AUG 1986

TROCHILIDAE

(5 species)

Planalto Hermit

Phaethornis pretrei (Lesson & De Lattre, 1839) (1)

CE000915 ♀ (PAR) 8 km N of Paraguari (Estela Muñoz & YED/YED) 07 AGO 1985

This is the specimen referred to in Contreras (1986).

***Blue-tufted Starthroat**

Heliomaster furcifer (Shaw, 1812) (2)

EBÑ00029 ♀ (ÑEE) Arroyo Montuoso at Ruta Nacional IV (AOC/YED) 11 JAN 1992

CE012838 ♀ (ÑEE) Pilar (AOC/ Benigna Ramírez Villasanti) 09 SEP 1996

Glittering-bellied Emerald

Chlorostilbon lucidus (Shaw, 1812) (1)

ssp. *lucidus* (Shaw, 1812)

CE005223 ♀ (CEN) Ñu Guazú, Asunción (YED/YED) 04 AUG 1989

Subspecies are distinguished mainly on the basis of male plumage characters. The subspecific identity in the case of this specimen is assumed based on type locality.

^{AF}Purple-crowned Plovercrest

Stephanoxis loddigesii (Gould, 1831) (1)

CE006781 ♂ (APA) Itabó Itaipú (YED/YED) 15 MAY 1991

Gilded Hummingbird

Hylocharis chrysura (Shaw, 1812) (1)

96NP0179 Un (ÑEE) San Roque Medina (Col. AOC) 13 NOV 1996

RALLIDAE

(4 species)

Purple Gallinule

Porphyrio martinica (Linnaeus, 1766) (4)

CE003223 ♂ (COR) Acosta Nü (AOC/YED) 09 JAN 1987

CE003281 ♀ (COR) Acosta Nü (AOC/YED) 09 JAN 1987

CE008864 ♂ (ÑEE) 6 km N Mayor Martinez (AOC/YED) 30 OCT 1993

CE003280 ♂ (PHA) Isla Piedra Rara (AOC/YED) 06 JAN 1987

***Grey-breasted Crake**

Laterallus exilis (Temminck, 1831) (2)

CE009391 ♂ (ÑEE) Barrio 12 de Octubre, Pilar (AOC/YED) 20 JAN 1994

97SP0276 ♀ (ÑEE) Boquerón (Col. AOC) 27 SEP 1997

Specimen CE009391 was previously published by Contreras & Contreras (1994) where the locality was given as “sobre el Riacho Ñeembucú al norte de la ciudad de Pilar”. This record was overlooked by Guyra Paraguay (2005), but it is the first mention of the species in Paraguay.

Ash-throated Crake

Mustelirallus albicollis (Vieillot, 1819) (3)

ssp. *albicollis* (Vieillot, 1819)

CE008620 Un (ÑEE) Pilar (AOC/YED) 30 JUN 1993

CE009087 ♂ (ÑEE) Isla Hu, 17 km NE Pilar (AOC/YED) 06 JUN 1993

CE009900 ♂ (ÑEE) Zanjita, Compañía Apipé, N Villalbín (Angel Brusquetti/YED) 03 DEC 1994

***Spotted Rail**

Pardirallus maculatus (Boddaert, 1783) (2)

ssp. *maculatus* (Boddaert, 1783)

96SP063 ♂ (ÑEE) Barrio General Díaz, Pilar (YED/YED) 25 AUG 1996

CE008875 ♂ (ÑEE) Pilar (AOC/YED) 24 OCT 1993

CHARADRIIDAE

(2 species)

***American Golden-Plover**

Pluvialis dominica (Müller, 1776) (1)

CE009002 ♀ (ÑEE) Isla Hú, Arroyo Montuoso, 17 km NE Pilar (AOC/YED) 12 SEP 1993

Southern Lapwing*Vanellus chilensis* (Molina, 1782) (1)ssp. *lampronotus* (Wagler, 1827)96NP0106 ♀ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996**SCOLOPACIDAE**

(1 species)

Buff-breasted SandpiperCalidris subruficollis* (Vieillot, 1819) (1)CE009384 ♀ (ÑEE) Isla Jara Cué, Playa
Ybycuí, Rio Paraguay frente al Rio Bermejo
(AOC/YED) 13 JAN 1994

This is the specimen published by Contreras & Contreras (1994) as *Calidris bairdii*. The same misidentification appeared on the specimen label.

LARIDAE

(1 species)

Yellow-billed Tern*Sternula superciliaris* (Vieillot, 1819) (1)CE003190 ♂ (PHA) Riacho Pucu, Rio Para-
guay (AOC/YED) 06 JAN 1987**ACCIPITRIDAE**

(4 species)

Black-collared Hawk*Busarellus nigricollis* (Latham, 1790) (1)ssp. *leucocephalus* (Vieillot, 1816)CE004924 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986**Crane Hawk***Geranospiza caerulescens* (Vieillot, 1817) (1)ssp. *flexipes* J.L. Peters, 1935CE005430 ♀ (BOQ) Estancia Coë Pyahú
(JRC/YED) 10 SEP 1989**Savanna Hawk***Buteogallus meridionalis* (Latham, 1790) (1)CE003188 ♂j (PHA) Pozo Colorado (AOC/
YED) AUG 1986**Roadside Hawk***Rupornis magnirostris* (Gmelin, 1788) (3)ssp. *saturatus* (P. L. Sclater & Salvin, 1876)EBÑ00030 ♀ (ÑEE) Arroyo Montuoso at
Ruta IV (No coll.) 11 JAN 1992CE008892 ♂ (ÑEE) Estancia San Anto-
nio, Tacuaras (AOC/YED) 12 MAY
1993ssp. *magniplumis* (W. Bertoni, 1901)CE003233 ♂ (PHA) Riacho Pucu, Rio Para-
guay (AOC/YED) 09 JAN 1987

Specimens from NEE are larger, darker above, more richly coloured below and with broader, more rufous tail bands. CE003233 (PHA) here assigned to *R. m. magniplumis* is in poor condition, but the base colour of the underparts is notably more whitish, the tail bands are paler and greyer, and the dark bands of the tail thinner and more numerous.

STRIGIDAE

(3 species)

Tropical Screech-Owl*Megascops choliba* (Vieillot, 1817) (1)ssp. *choliba* (Vieillot, 1817)CE004691 ♀ (CAN) Puente Kyhá, Fortín
Caballero Alvarez (AOC/YED) 11 JAN
1989**Ferruginous Pygmy-Owl***Glaucidium brasilianum* (Gmelin, 1788) (2)ssp. *brasilianum* (Gmelin, 1788)99PM078 ♀ (PAR) Lago Ypoá (AOC/YED)
10 MAY 1999ssp. *pallens* Brodtkorb, 1938CE005130 ♂ (BOQ) Estancia Coë Pyahú
(JRC/YED) 10 SEP 1989**Burrowing Owl***Athene cunicularia* (Molina, 1782) (3)ssp. *grallaria* (Temminck, 1822)CE007389 ♂ (CON) San Alfredo (JRC/
YED) 03 SEP 1991ssp. *cunicularia* (Molina, 1782)

96JP012 Un (ÑEE) General Díaz 23 (No coll.) JUN 1996

EBÑ00019 Un (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 20 JAN 1992

The two ÑEE specimens are whitish below and dull brown above, consistent with the nominate subspecies. The CON specimen (CE007389), however, is more rufescent above, and with a yellowish-buff wash to the underparts, characters we consider to tend towards *A. c. grallar-ia* of central Brazil.

TROGONIDAE

(1 species)

^{AF}Surucua Trogon

Trogon surrucura Vieillot, 1817 (4)

ssp. *surrucura* Vieillot, 1817

CE004638 ♂ (MIS) Corate-i, Ayolas (AOC/YED) 16 FEB 1989

97MP0258 ♂j (ÑEE) Boquerón (Col. AOC) 17 MAR 1997

CE008739 ♂ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008850 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

MOMOTIDAE

(1 species)

Rufous-capped Motmot

Baryphthengus ruficapillus (Vieillot, 1818) (1)

CE007762 ♀ (APA) Reserva Itabó (YED/YED) 06 AUG 1992

ALCEDINIDAE

(1 species)

Ringed Kingfisher

Megaceryle torquata (Linnaeus, 1766) (1)

ssp. *torquata* (Linnaeus, 1766)

CE004759 ♂ (MIS) Ayolas (AOC/YED) 15 FEB 1989

BUCCONIDAE

(1 species)

White-eared Puffbird

Nystalus chacuru (Vieillot, 1816) (2)

ssp. *chacuru* (Vieillot, 1816)

CE004642 ♀ (CAN) Santa Maria, 12 km N Puente Kyhá (AOC/YED) 12 JAN 1989

CE004648 ♂ (CAN) Santa Maria, 12 km N Puente Kyhá (AOC/YED) 12 JAN 1989

RAMPHASTIDAE

(1 species)

Chestnut-eared Aracari

Pteroglossus castanotis Gould, 1833 (1)

ssp. *australis* Cassin, 1867

99PM041 ♀ (PAR) Costa E Lago Ypoá (AOC/YED) 06 MAY 1999

PICIDAE

(15 species)

White-barred Piculet

Picumnus cirratus Temminck, 1825 (14)

ssp. *cirratus* Temminck, 1825

CE004005 ♀ (CAN) 17 km SE Ygatimí (JRC/YED) 17 FEB 1988

CE003198 ♀ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 06 JAN 1987

CE005002 j (MIS) Corate-i, Ayolas (AOC/YED) 16 FEB 1989

CE004763 ♀ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 20 AUG 1989

CE004765 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 21 JAN 1989

CE008899 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 16 JUL 1993

98FP6335 ♂ (ÑEE) Camba Cuá, Isla Umbú (Col. AOC) 21 FEB 1998

CE008614 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 AUG 1993

EBÑ00209 ♀ (ÑEE) Tacuaras (AOC/YED) 02 APR 1993

CE005478 ♂ (PAR) Mbocayá, Sapucaí (JRC/YED) 15 NOV 1989

99PM009 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM010 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM034 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999

CE002628 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 28 AUG 1986

All specimens show tightly and densely-barred underparts consistent with the nominate subspecies.

^{AF}Ochre-collared Piculet

Picumnus temminckii Lafresnaye, 1845 (1)

CE006801 ♂ (APA) Itabó Itaipú (Andrés Colmán/YED) 15 MAY 1991

White-wedged Piculet

Picumnus albosquamatus d'Orbigny, 1840 (1) ssp. *guttifer* Sundevall, 1866

CE012704 ♀ (CAN) Salto del Guairá (Nelson Pérez/Nelson Pérez) 20 OCT 1988

The first report of this species in Paraguay mentions a specimen collected on 15 November 1988 (Contreras et al, 1993b), but the exact same measurements are provided as those on the specimen label for CE012704. Pérez Villamayor & Colmán Jara (1995) who collected this specimen stated that this species was first collected on 22 October 1988 at Refugio Biológico Mbaracayú (= Salto del Guairá) and that the second observation was of a nesting pair during September 1989. We suspect strongly that both citations refer to this specimen.

White Woodpecker

Melanerpes candidus (Otto, 1796) (4)

CE005320 ♀ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

CE005322 ♀ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

CE003192 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 07 JAN 1987

CE008742 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

^{AF}Yellow-fronted Woodpecker

Melanerpes flavifrons (Vieillot, 1818) (3)

CE007560 ♀ (APA) Tatí Yupí (YED/YED) 27 MAY 1992

CE004024 ♂j (CAN) 17 km SE Ygatimí (JRC/YED) 16 FEB 1988

CE004677 ♂ (CAN) Puente Kyhá (No coll.) 14 JAN 1989

White-fronted Woodpecker

Melanerpes cactorum (d'Orbigny, 1840) (1)

CE005348 ♂ (BOQ) Estancia Coë Pyahú (YED/YED) 12 SEP 1989

Little Woodpecker

Veniliornis passerinus (Linnaeus, 1766) (10)

ssp. *olivinus* (Natterer & Malherbe, 1845)

96NP0186 ♀ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 26 NOV 1996

97FP0214 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 14 FEB 1997

97FP0232 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 14 FEB 1997

97FP0233 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 14 FEB 1997

97FP0241 ♀ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 27 FEB 1997

97FP0242 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 27 FEB 1997

96NP0165 ♂ (ÑEE) San Roque Medina (Col. AOC) 13 NOV 1996

99PM064 ♂ (PAR) Lago Ypoá (AOC/YED) 08 MAY 1999

CE005560 ♀ (PAR) Mbocayá, Sapucaí (AOC/YED) 14 NOV 1989

CE002771 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 15 OCT 1986

*Crimson-crested Woodpecker

Campephilus melanoleucos (Gmelin, 1788) (2)

ssp. *melanoleucos* (Gmelin, 1788)

93SP0331 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 OCT 1993

CE008973 ♂ (ÑEE) Estancia San Antonio,

Tacuaras (AOC/YED) 04 SEP 1993

^{CH}**Cream-backed Woodpecker**

Campephilus leucopogon (Valenciennes, 1826) (7)

CE006635 ♂ (PHA) 6 km E Casco Estancia Guy (JRC/YED) 09 DEC 1990

CE009039 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (Angel Brusquetti/YED) 16 JUL 1993

97MP0253 ♀ (ÑEE) Boquerón (AOC/YED) 12 MAY 1997

CE008774 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 06 SEP 1993

95OP096 ♂ (ÑEE) Isla Hú (AOC/YED) 15 OCT 1995

CE006635 ♂ (PHA) 6 km E Casco Estancia Guy (JRC/YED) 09 DEC 1990

CE002830 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

Crimson-crested x Cream-backed Woodpecker

Campephilus melanoleucus x *Campephilus leucopogon* (1)

EBÑ00139 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 JUL 1993

Specimen described and illustrated in Contreras-Chialchia & Smith (2014).

Lineated Woodpecker

Dryocopus lineatus (Linnaeus, 1766) (3)

ssp. *erythroptus* (Valenciennes, 1826)

CE004805 ♀ (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989

ssp. *lineatus* (Linnaeus, 1766)

CE008713 ♂ (PHA) Estancia El Quebrachal, Puerto Colón (Angel Brusquetti/YED) 08 AUG 1993

CE002831 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

Specimen CE004805 from MIS has no white tramlines on the back, a strongly streaked throat and is more broadly barred on the belly consist-

ent with *D. l. erythroptus* (Valenciennes, 1826). The other two specimens from PHA have a finely barred belly, a virtually unstreaked throat and clear white tramlines on the back and are probably referable to nominate *D. l. lineatus*.

Pale-crested Woodpecker

Celeus lugubris (Malherbe, 1851) (3)

ssp. *kerri* Hargitt, 1891

93SP0372 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE008597 ♀ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993

99PM004 ♂ (PAR) Playa Taruma, Lago Ypoá (JRC/YED) 04 MAY 1999

^{AF}**Blond-crested Woodpecker**

Celeus flavescens (Gmelin, 1788) (1)

ssp. *flavescens* (Gmelin, 1788)

CE006776 ♀ (APA) Itabó Itaipú (Andres Colmán/YED) 17 MAY 1991

Golden-green Woodpecker

Piculus chrysochloros (Vieillot, 1818) (11)

ssp. *chrysochloros* (Vieillot, 1818)

CE008830 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE008630 ♀ (ÑEE) Estancia Paso Pucú, Curupaty (AOC/YED) 06 AUG 1993

CE007354 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 21 JAN 1992

CE007355 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992

99PM035 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999

CE002900 ♂ (PAR) Playa Taruma, Lago Ypoá (JRC/YED) 29 AUG 1986

CE002897 ♂ (PAR) Puesto Cerro Lima, Lago Ypoá (AOC/YED) 27 AUG 1986

CE002898 ♀ (PAR) Puesto Cerro Lima, Lago Ypoá (AOC/YED) 27 AUG 1986

CE002899 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 28 AUG 1986

CE008717 ♀ (PHA) Estancia El Quebrachal,
Puerto Colón (Angel Brusquetti/YED) 08
AUG 1993

CE002829 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986

Green-barred Woodpecker

Colaptes melanochloros (Gmelin, 1788) (22)

ssp. *melanochloros* (Gmelin, 1788)

CE004723 ♂ (CAN) Puente Kyhá (No Coll.)
12 JAN 1989

CE004644 ♂ (CAN) Puente Kyhá, Caballero
Alvarez (AOC/YED) 12 JAN 1989

CE003225 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 07 JAN 1987

CE003226 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

CE006753 ♂ (COR) Mbocayáty del Yhaguy
(JRC/YED) 26 JAN 1991

CE004752 ♂ (MIS) Corate-i, Ayolas (No
Coll.) 16 FEB 1989

CE005470 ♂ (PAR) Mbocayá, Sapucaí (No
Coll.) 14 NOV 1989

CE005471 ♀ (PAR) Mbocayá, Sapucaí
(JRC/YED) 16 NOV 1989

ssp. *nigroviridis* (Grant, 1911b)

CE005407 ♀ (BOQ) Estancia Coë Pyahú
(AOC/YED) 12 SEP 1989

CE002197 ♀ (BOQ) Teniente Montañía
(AOC/YED) 09 SEP 1984

CE008874 ♂ (ÑEE) Arroyo Dos Hermanas
y Ruta Nacional IV (AOC/YED) 28 AUG
1993

CE008890 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 16 JUL
1993

93AP0254 ♂ (ÑEE) Curupaty (AOC/YED)
05 AUG 1993

93AP059 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 MAY 1993

93AP0108 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 10 MAY 1993

EBÑ000125 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 14 SEP 1993

CE007343 ♂ (ÑEE) Paso Lengá, Tres Bocas

(AOC/YED) 15 JAN 1992

CE002510 ♀ (PAR) Puesto Cerro Lima,
Lago Ypoá (AOC/YED) 27 AUG 1986

CE002511 ♂ (PAR) Puesto Cerro Lima,
Lago Ypoá (AOC/YED) 27 AUG 1986

CE002512 ♀ (PAR) Puesto Taruma Fondo,
Lago Ypoá (AOC/YED) 28 AUG 1986

CE006758 ♀ (PHA) 7 km E Casco Estancia
Guy (JRC/YED) 24 FEB 1991

CE006664 ♀ (PHA) Puesto Santa Cristina,
Estancia Villa Rey (JRC/YED) 09 DEC
1990

Short (1972) discussed the complexities of distribution of forms of this species in Paraguay with a large series covering most of Paraguay except “the critical southwestern corner”. The specimens examined here contain seven from that area (ÑEE), allowing some gaps in understanding to be filled.

We found specimens from ÑEE to be essentially indistinguishable from those of the Chaco region (BOQ and PHA), being long-billed, with a more or less paler, fairly uniform belly contrasting moderately with a yellower breast, and the barring of the upperparts yellowish. We assign all these specimens to *C. m. nigroviridis*.

Specimens from the “Central Forests” (CAN, COR and MIS) are shorter-billed, uniformly greenish-yellow below, more or less evenly spotted on the breast and belly, and with the bars of the upperparts greenish-yellow. We do not believe that these are true *C. m. melanochloros* and are perhaps the intermediate forms referred to by Short (1972). However we find them to be consistently and reliably distinguishable from both *C. m. nigroviridis* and true *C. m. melanochloros*, as well as biogeographically separable and they are perhaps worthy of subspecific rank.

Specimens from northern PAR (Mbocayá, Sapucaí) are also of this “Central Forest” type, whilst those from southern PAR (Lago Ypoá) are of the *C. m. nigroviridis* type, suggesting that the former is associated with humid forest areas and the latter with Chaco-style habitats.

Campo Flicker

- Colaptes campestris* (Vieillot, 1818) (18)
 ssp. *campestris* (Vieillot, 1818) (black throat)
 CE006717 ♀ (COR) La Escondida, 7 km NE
 Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE006792 ♂ (PHA) 1.5 km S Casco Estancia
 Guy (JRC/YED) 23 FEB 1991
 CE006666 ♀ (PHA) 10 km al E del límite
 W de Estancia Villa Rey hacia Estancia
 Guy (JRC/YED) 09 DEC 1990
 CE006667 ♂ (PHA) Al W de Puerto Santa
 Cristina, Estancia Villa Rey (JRC/YED)
 09 DEC 1990
- Intergrade *campestris* x *campestroides* (throat
 streaked black-and-white)
 CE003289 ♀ (COR) Acosta Ñu, Compañía
 Costa (AOC/YED) 08 JAN 1987
 CE006751 ♀ (COR) Mbocayaty del Yhaguy
 (JRC/YED) 26 JAN 1991
 CE006752 ♀ (COR) Parque Nacional Vapor
 Cué (JRC/YED) 25 JAN 1991
 CE005486 ♂ (PAR) Mbocayá, Sapucaí
 (JRC/YED) 16 NOV 1989
 CE006665 ♀ (PHA) 2 km al E del límite W
 de Estancia Villa Rey hacia Estancia Guy
 (JRC/YED) 09 DEC 1990
- ssp. *campestrioides* (Malherbe, 1849) (white
 throat)
 CE003288 ♀ (COR) Acosta Ñu, Compañía
 Costa (JRC/YED) 08 JAN 1987
 93AP099 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 MAY 1993
 CE007313 ♀ (ÑEE) Paso Lengá, Tres Bocas
 (AOC/YED) 15 JAN 1992
 CE007420 ♂ (ÑEE) Paso Lengá, Tres Bocas
 (AOC/YED) 21 JAN 1992
 CE007344 ♂ (ÑEE) Riacho Cai Mbocá, 5
 km SW Mbucuricá (AOC/YED) 16 JAN
 1992
 96NP0157 ♂ (ÑEE) Yatatyty, 3ra Compañía
 (AOC/YED) 08 NOV 1996
 96NP0158 ♀ (ÑEE) Yatatyty, 3ra Compañía
 (AOC/YED) 08 NOV 1996
 CE005487 ♀ (PAR) Mbocayá, Sapucaí

(JRC/YED) 16 NOV 1989

- CE006772 ♀ (PHA) Casco Estancia Guy
 (Rafael González/YED) 25 FEB 1991

FALCONIDAE

(3 species)

Yellow-headed Caracara

- Milvago chimachima* (Vieillot, 1816) (1)
 93SP0324 ♂ (ÑEE) Isla Hú (AOC/YED)
 12 OCT 1993

Chimango Caracara

- Milvago chimango* (Vieillot, 1816) (1)
 ssp. *chimango* (Vieillot, 1816)
 CE004698 ♂ (MIS) Estancia Guarepyá,
 Santiago (AOC/YED) 19 JAN 1989

American Kestrel

- Falco sparverius* Linnaeus, 1758 (1)
 Ssp. *cinnamominus* Swainson, 1838
 CE005511 ♀ (PAR) Mbocayá, Sapucaí (JRC/
 YED) 14 NOV 1989

PSITTACIDAE

(5 species)

Monk Parakeet

- Myiopsitta monachus* (Boddaert, 1783) (6)
 ssp. *cotorra* (Vieillot, 1818) > *monacha*
 CE005309 ♂ (BOQ) Estancia Coë Pyahú
 (No coll.) 10 SEP 1989
 CE002843 ♀ (PHA) Pozo Colorado (AOC/
 YED) 28 SEP 1986
- ssp. *monacha* > *cotorra* (Vieillot, 1818)
 98FP0323 ♂ (ÑEE) Arroyo Hondo (Col.
 AOC) 24 FEB 1998
 CE008700 ♀ (ÑEE) Estancia Paso Pucú,
 Curupayty (AOC/YED) 06 AUG 1993
 CE009046 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 10 MAY 1993
 EBÑ00020 ♂ (ÑEE) Paso Lengá, Tres Bocas
 (AOC/YED) 20 JAN 1992

We were unable to confidently assign these specimens to subspecies. There was no obvious difference in plumage, with the exception of

CE005309 (BOQ) which has a more intensely blue tail. The two Chaco specimens were also appreciably smaller than the others in wing length (135-136 mm), tail length (116-129 mm) and culmen length (15.5-18 mm) compared to those from ÑEE (wing 141-147 mm; culmen 17.5-19.5; tail 139-148 mm). Darrieu (1979) included southern Paraguay in the range of the nominate subspecies (wing 146-158 mm; tail 150-165 mm, culmen 18-21 mm) and the rest of the Paraguayan range in the smaller *M. m. cotorra* (wing 132-137 mm; tail 141-150 mm; culmen 17-17.8 mm).

Scaly-headed Parrot

Pionus maximiliani (Kuhl, 1820) (2)

ssp. *siy* Souancé, 1856

CE002586 ♀ (PAR) Puesto Cerro Lima, Lago Ypoá (AOC/YED) 27 AUG 1986

CE002588 Un (PAR) Puesto Cerro Lima, Lago Ypoá (AOC/YED) 27 AUG 1986

Turquoise-fronted Parrot

Amazona aestiva (Linnaeus, 1758) (1)

ssp. *xanthopteryx* (Berlepsch, 1896)

CE008619 ♂ (ÑEE) Estancia San Antonio, Tacuaras (Angel Brusquetti/ YED) 10 JUL 1993

Maroon-bellied Parakeet

Pyrrhura frontalis (Vieillot, 1818) (10)

ssp. *chiripepe* (Vieillot, 1818)

CE004032 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 16 FEB 1988

CE004754 ♂ (CAN) Puente Kyhá (AOC/YED) 14 JAN 1989

CE004755 ♂ (CAN) Puente Kyhá (AOC/YED) 14 JAN 1989

CE004756 ♂ (CAN) Puente Kyhá, F Caballero d'Álvarez (AOC/YED) 14 JAN 1989

CE008787 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

CE008852 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

CE002581 ♀ (PAR) Puesto Cerro Lima,

Lago Ypoá (AOC/YED) 27 AUG 1986

CE002582 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (JRC/YED) 28 AUG 1986

CE002584 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 29 AUG 1986

CE002585 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 29 AUG 1986

Peach-fronted Parakeet

Eupsittula aurea (Gmelin, 1788) (4)

96JP060 ♀ (ÑEE) Barrio General Díaz, Pilar (AOC/YED) 06 SEP 1996

99PM062 ♀ (PAR) Costa E Lago Ypoá (Prep. YED) 08 MAY 1999

CE008714 ♂ (PHA) Estancia El Quebrachal, Puerto Colón (Angel Brusquetti/YED) 08 AUG 1993

CE008715 ♀ (PHA) Estancia El Quebrachal, Puerto Colón (Angel Brusquetti/YED) 08 AUG 1993

These specimens were consistent in size (wing 154-164 mm; tail 136-147 mm) with those of the proposed subspecies *E. a. major* Cherrie & Reichenberger, 1923, which was distinguished on the basis of larger size (wing 153-159.5 mm; tail 137.5-142 mm). However, size differences have been attributed to clinal variation and the subspecies is no longer recognized (Collar & Boesman 2020).

THAMNOPHILIDAE

(6 species)

Spot-backed Antshrike

Hypoedaleus guttatus (Vieillot, 1816) (1)

CE003880 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 15 FEB 1988

Great Antshrike

Taraba major (Vieillot, 1816) (16)

ssp. *major* (Vieillot, 1816)

CE003197 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 06 JAN 1987

96JP021 ♂ (ÑEE) Barrio General Díaz, Pilar (AOC/YED) 23 JUN 1996

97MP0265 ♀ (ÑEE) Boquerón (Col. AOC)

- 17 MAR 1997
 CE008577 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 APR 1993
 CE008937 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 APR 1993
 CE010480 ♀ (ÑEE) Isla Hú, 17 km NE Pilar
 (JRC/YED) 15 OCT 1995
 CE008086 ♀ (ÑEE) Isla Hú, 19 km NE
 Pilar (JRC & R. González Baston/YED)
 13 JAN 1992
 CE010223 ♂ (ÑEE) Paraje Yacaré, Arroyo
 Yacaré y Ruta Nacional IV (YED/YED)
 12 MAY 1996
 CE007951 ♀ (ÑEE) Puerto Naranjito (YED/
 YED) 19 SEP 1992
 CE007952 ♂ (ÑEE) Puerto Naranjito (YED/
 YED) 19 SEP 1992
 CE002671 ♂ (PAR) Puesto Cerro Lima,
 Lago Ypoá (AOC/YED) 27 AUG 1986
 CE002672 ♂ (PAR) Puesto Taruma Fondo,
 Lago Ypoá (AOC/YED) 27 AUG 1986
 CE002882 ♂ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986
 CE002884 ♂ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986
 CE002888 ♀ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986
 CE002923 ♀ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986

The collection date for specimen CE010223 says 1996 on the label, but we note that other specimens collected on the same date and at the same location date from 1995.

T. m. albatrus Brodtkorb, 1937 was described for Chaco populations (type UMMZ 90849, type locality “265 kilometers west of Puerto Casado, Paraguayan Chaco”). Though currently included within nominate *T. m. major*, it was separated from that subspecies (of the Oriental region of Paraguay) as follows:

T. m. albatrus “Bill short, less attenuate, less deep (culmen 24-26 mm.; depth of bill 8.5-9 mm.). Male with black bands of lateral retrices reduced (3-5 mm. in width), the white interspaces wider; white tips to wing coverts more

extensive. Female with upperparts much paler (ochraceous-tawny); flanks, belly, crissum, and auriculars more whitish, less ochraceous”.

T. m. major “Bill large (culmen 26-27.5 mm.; depth of bill at posterior end of nostrils 9.5-10 mm.). Male with black bands on lateral retrices 6-8 mm wide, the white interspaces rather narrower; white tips to wing coverts reduced in extent. Female with upperparts ochraceous-tawny to dull amber brown; flanks, belly, and crissum strongly ochraceous”.

We found that specimens from PHA conformed broadly to the description of *T. m. albatrus* whilst those from east of the Paraguay River conformed to *T. m. major*. For males the described differences in proportion of black and white on the pattern of the outer tail feather of males is notably different even on preliminary examination. However we note difficulties in measuring the width of black bands on the outer retrices in specimens in which these have an uneven width. The two females with the whitest underparts were from PHA as might be expected from the range of *T. m. albatrus*, however upperpart colouration was perhaps only slightly paler (not much paler) and we found the colour of the auriculars to be variable regardless of origin. Furthermore we were unable to support the supposed differences in bill morphology between the two forms. Given the small sample size, the apparent subjectivity of some of the characters and the inability to confidently assign specimens to these two subspecies, we assign all specimens to the nominate subspecies.

Barred Antshrike

Thamnophilus doliatus (Linnaeus, 1764) (19)
 ssp. *radiatus* (Vieillot, 1816)

CE005240 ♀ (CEN) Ñu Guazú, Asunción
 (YED/YED) 05 AUG 1989

CE005242 ♂j (CEN) Ñu Guazú, Asunción
 (YED/YED) 07 AUG 1989

CE006721 ♂j (COR) 10 km NE Eusebio
 Ayala (AOC/YED) 27 JAN 1991

- CE006727 ♀ (COR) 10 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE003667 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 08 JAN 1987
 CE003668 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 09 JAN 1987
 CE006709 ♀ (COR) Compañía Puruiú, 12 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE006679 ♂ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE006680 ♂ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE006724 ♂j (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991
 CE006742 ♂j (COR) Parque Nacional Vapor Cué (AOC/YED) 28 JAN 1991
 99PM018 ♂ (PAR) Lago Ypoá (AOC/YED) 05 MAY 1999
 99PM019 ♂ (PAR) Lago Ypoá (AOC/YED) 05 MAY 1999
 99PM030 ♂ (PAR) Lago Ypoá (AOC/YED) 06 MAY 1999
 CE002536 ♂ (PAR) Quiindy (AOC/YED) 01 SEP 1986
 CE002821 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986
 CE002822 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986
 CE007392 ♀ (PHA) Puerto Militar (AOC/YED) 04 SEP 1991
 CE003666 ♂ (PHA) Riacho Pucu, 20 km W Villa Hayes (AOC/YED) 09 JAN 1987.
 Lacks a tail.

Variation in the intensity of barring on the ventrum of males was apparent in the sample, but could not be linked to geographic distribution. CE002536 (PAR) shows the most distinct white, unbarred patch on the lower belly with the breast strongly barred, whilst CE006679 (COR) shows very fine barring, often broken on the upper breast and a more diffuse white patch on the lower belly. CE003666 (PHA) on the other hand has the whole of the underparts densely and clearly barred with black-and-white, including

the lower belly. We consider the ventral pattern to be of no taxonomic value and assign all specimens to *T. d. radiatus*.

Variable Antshrike

Thamnophilus caerulescens Vieillot, 1816
(13)

- ssp. *caerulescens* Vieillot, 1816
 CE004753 ♀ (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989
 CE008654 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993
 CE008720 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 04 AUG 1993
 CE008566 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993
 CE008896 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993
 CE007372 ♀ (ÑEE) Isla Hú (AOC/YED) 13 JAN 1992
 95OP083 ♀ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 15 OCT 1995
 CE009075 ♀ (ÑEE) Isla Hú, 17 km NE Pilar (AOC/YED) 06 NOV 1993
 CE007267 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992
 CE008902 ♀ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993
 ssp. *gilviger* (Pelzeln, 1868)
 CE006806 ♂ (APA) Tatí Yupí (Andres Colmán and Nelson Perez/YED) 26 APR 1991
 ssp. *paraguayensis* Hellmayr, 1904
 CE002826 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986
 CE002865 ♀ (PHA) Pozo Colorado (AOC/YED) 29 SEP 1986

The male from PHA (CE002826) is typical *T. c. paraguayensis* with extensive white on the underparts reaching the breast, contrasting jet black crown and bold wing patternation. The male from APA (CE006806) is of the tawny-vented form *T. c. gilviger*.

Plain Antvireo*Dysithamnus mentalis* (Temminck, 1823) (2)ssp. *mentalis* (Temminck, 1823)

CE004048 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 16 FEB 1988

CE004738 ♂ (CAN) Puente Kyhá (AOC/YED) 13 JAN 1989

^{AF}White-shouldered Fire-eye*Pyriglena leucoptera* (Vieillot, 1818) (1)

CE007754 ♀ (APA) Itabó Itaipú (YED/YED) 05 AUG 1992

CONOPOPHAGIDAE

(1 species)

^{AF}Rufous Gnateater*Conopophaga lineata* (Wied, 1831) (1)ssp. *vulgaris* Ménétries, 1835

CE006831 ♂ (APA) Itabó Itaipú (Nelson Pérez and Andres Colmán/YED) 16 MAY 1991

FURNARIIDAE

(19 species)

Olivaceous Woodcreeper*Sittasomus griseicapillus* (Vieillot, 1818) (16)ssp. *sylviellus* (Temminck, 1821)

CE006775bis ♀ (APA) Reserva Itabó (No coll.) 15 MAY 1991 no tail

CE007783 ♂ (APA) Reserva Itabó (YED/YED) 16 MAY 1991

ssp. *griseicapillus* (Vieillot, 1818)

CE007290 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 13 JAN 1992

CE008825 Un (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE008885 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE009017 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE008734 ♀ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008707 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 04 AUG 1993

CE008776 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

CE008803 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

CE009005 ♂ (ÑEE) Estancia San Antonio, Tacuaras (JRC/YED) 04 SEP 1993

CE009190 ♀ (ÑEE) Granja San Ysidoro, Villa Paso (JRC/YED) 08 FEB 1994

CE007410 ♂ (ÑEE) Isla Hu, 12 km NE Pilar (AOC/YED) 13 JAN 1992

CE007947 ♂ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992

CE008887 Un (ÑEE) Riacho Cai Mbocá, 5 km SW Mburicá (Angel Brusquetti / YED) 15 APR 1993

EBÑ00005 Un (ÑEE) Riacho Cai Mbocá, 5km SW Mburicá (JRC/YED) 14 JAN 1992

Specimens from APA have strongly cinnamon underparts corresponding to the subspecies *S. g. sylviellus* (Temminck, 1821), whilst the underparts of specimens from ÑEE are greyish, consistent with the nominate form *S. g. griseicapillus*.

Planalto Woodcreeper*Dendrocolaptes platyrostris* Spix, 1824 (2)ssp. *platyrostris* Spix, 1824

99PM069 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 09 MAY 1999

CE002395 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 28 AUG 1986

^{CH}Great Rufous Woodcreeper*Xiphocolaptes major* (Vieillot, 1818) (10)ssp. *major* Spix, 1824

CE004210 ♀ (BOQ) Fortín Toledo (YED/YED) 24 FEB 1988

CE0000470 ♀ (ÑEE) Boca del Tebicuary (Nicolás Roberts/YED) 26 JUN 1979

EBÑ0046 Un (ÑEE) Estancia San Antonio,

- Tacuaras (AOC/YED) 09 MAY 1993
 CE008617 ♀ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 12 DEC 1993
 CE008840 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (JRC/YED) 04 SEP 1993 Bill
 broken.
 CE008894 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 APR 1993
 Broken lower mandible.
 CE010222 ♀ (ÑEE) Paraje Yacare, Arroyo
 Yacaré y Ruta Nacional IV (YED/YED)
 12 MAY 1995
 99PM042 ♂ (PAR) Lago Ypoá (AOC/YED)
 07 MAY 1999
 CE002397 ♂ (PAR) Puesto Taruma Fondo,
 Lago Ypoá (AOC/YED) 28 AUG 1986
 CE002824 ♂ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986

The four described subspecies of this species are based largely on plumage characteristics. We note considerable variation in the colouration of the head, barring and streaking on the underparts and the tone of the upperparts in this sample (most of which come from a limited area in southwestern Paraguay) and we suggest that the proposed subspecific diagnoses would benefit from review. We conservatively ascribe all specimens to the nominate subspecies, which has a Paraguayan type locality.

Red-billed Scythebill

Campylorhamphus trochilirostris (Lichtenstein, 1820) (1)

ssp. *lafresnayanus* (d'Orbigny, 1846) / *hellmayri* Laubmann, 1930

- CE008602 ♀ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 MAY 1993

The measurements of this specimen are as follows. Total length 306 mm (from label), wingspan 341 mm (from label), head and body 212 mm, bill length (in straight line) 81 mm, bill width across nostrils 6 mm, bill depth across nostrils 6.5 mm, tarsus 26.5 mm, wing 115 mm. We lack sufficient material to be able to assign this specimen to either of the two subspecies that

might converge upon this locality.

^{CH}Scimitar-billed Woodcreeper

- Drymornis bridgesii* (Eyton, 1849) (4)
 CE005138 ♂j (BOQ) Estancia Coë Pyahú
 (JRC/YED) 12 SEP 1989
 CE005350 ♀ (BOQ) Estancia Coë Pyahú
 (AOC/YED) 10 SEP 1989
 CE005351 ♂ (BOQ) Estancia Coë Pyahú
 (AOC/YED) 12 SEP 1989
 CE005352 ♂ (BOQ) Estancia Coë Pyahú
 (AOC/YED) 12 SEP 1989

Bills of immature birds are shorter than those of adult birds.

Narrow-billed Woodcreeper

Lepidocolaptes angustirostris (Vieillot, 1818)
 (57)

- ssp. *angustirostris* (Vieillot, 1818)
 CE003193 ♂ (COR) Acosta Ñu, Compañía
 Costa (AOC/YED) 08 JAN 1987
 CE006675 ♀ (COR) La Escondida, 7 km NE
 Eusebio Ayala (YED/YED) 26 JAN 1991
 CE004729 ♀j (MIS) Corate-i, Ayolas (no
 col.) 16 FEB 1989
 CE004651 ♀ (MIS) Estancia Guarepyá,
 Santiago (AOC/YED) 21 JAN 1989
 CE004674 ♂j (MIS) Estancia Guarepyá,
 Santiago (No coll.) 19 JAN 1989
 CE004795 ♀ (MIS) Estancia San Vicente,
 Santiago (No coll.) 14 FEB 1989
 CE004820 ♀ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 13 FEB 1989
 CE004830 ♂ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 15 FEB 1989
 CE004832 ♀ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 15 FEB 1989
 CE005061 ♀ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 12 FEB 1989
 99PM083 ♂ (PAR) Lago Ypoá (AOC/YED)
 09 MAY 1999 Broken upper mandible
 CE005527 ♀ (PAR) Mbocayá, Sapucaí
 (JRC/YED) 14 NOV 1989
 CE005528 ♀ (PAR) Mbocayá, Sapucaí
 (JRC/YED) 14 NOV 1989

- CE005529 ♀ (PAR) Mbocayá, Sapucaí (JRC/YED) 16 NOV 1989
- CE002635 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 30 AUG 1986
- ssp. certhiolus* (Todd, 1913)
- CE005319 ♀ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989
- CE005357 Un (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989
- CE005358 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989
- CE005359 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989
- CE005379 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 12 SEP 1989
- CE005409 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989
- CE004023 ♀ (BOQ) Fortín Toledo (YED/YED) 25 FEB 1988
- CE004025 ♂i (BOQ) Fortín Toledo (YED/YED) 25 FEB 1988
- CE006786 ♀ (PHA) 2.5 km N Casco Estancia Villa Rey (Rafael González/YED) 24 FEB 1991
- CE006787 ♀ (PHA) Casco Estancia Guy (YED/YED) 24 FEB 1991
- CE006625 ♂ (PHA) E Casco Estancia Guy (JRC/YED) 08 DEC 1990
- CE002838 ♀ (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986
- CE002839 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986
- CE006626 ♀ (PHA) Puesto Santa Cristina, Estancia Villa Rey (JRC/YED) 09 DEC 1990
- ssp. praedatus* (Cherrie, 1916)
- CE008550 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993
- CE009018 Un (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993
- CE009030 Un (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993
- CE008044 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992
- CE009530 ♂ (ÑEE) Compañía Teniente Sanchez, Villazón (AOC/YED) 21 MAR 1994
- CE008696 Un (ÑEE) Curupayty (AOC/YED) 05 AUG 1993
- CE008702 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993
- CE008568 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993
- CE008778 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 06 SEP 1993
- CE008797 Un (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993
- CE008835 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993
- CE008837 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993
- CE008969 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993
- CE008994 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993
- CE007365 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 13 JAN 1992
- CE007380 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (AOC/YED) 13 JAN 1992 Broken mandible
- CE009065 ♀ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 06 NOV 1993
- CE010486 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 15 OCT 1995
- CE007398 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 19 JAN 1992
- CE007846 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 20 JAN 1992
- CE007908 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 SEP 1992
- CE007923 ♀ (ÑEE) Paso Lengá, Tres Bocas (YED/YED) 15 SEP 1992
- EBÑ00013 Un (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 20 JAN 1992
- CE008914 ♀ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993

CE007371 ♂ (ÑEE) Riacho Cai Mbocá, Mburiá (AOC/YED) 16 JAN 1992

CE007860 ♂ (ÑEE) Riacho Cai Mbocá, Mburiá (AOC/YED) 14 JAN 1992

CE010209 ♂ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 11 MAY 1995

CE010211 ♀ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 11 MAY 1995

Specimens from BOQ and PHA west of the Paraguay River are not strongly streaked below and have a broadly-streaked crown; birds from this region have been long associated with the subspecies *L. a. certhiolus*. Specimens from PAR, COR and MIS east of the Paraguay River are strongly streaked below, with the crown more thinly and lightly streaked and have traditionally been attributed to the nominate subspecies *L. a. angustirostris*. Birds from ÑEE average longer-billed 30.5-37 mm (compared to 29 - 35 mm for Oriental birds, and 29.5-33 mm for Chaco birds) and are quite strongly streaked below in general. They may represent *L. a. praedatus* or an intermediate form.

Rufous Hornero

Furnarius rufus (Gmelin, 1788) (35)

ssp. *rufus* (Gmelin, 1788)

CE006804 ♀ (APA) Itabó Itaipú (Andres Colman and Nelson Pérez /YED) 14 MAY 1991

CE006708 Un (APA) Itaipú (Nelson Pérez and Andres Colmán/Nelson Pérez and Andres Colmán) No date

CE004668 ♂ (CAN) Puente Kyhá, F Caballero d'Álvarez (AOC/YED) 14 JAN 1988

CE007385 Un (CON) Colonia San Alfredo (JRC/YED) 03 SEP 1991

CE006469 ♀ (COR) 5 km E Eusebio Ayala (AOC/YED) 26 JAN 1991

CE003200 ♀ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 09 JAN 1987

CE003240 ♀ (COR) Acosta Ñu, Compañía

Costa (AOC/YED) 09 JAN 1987

CE006470 ♂ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 26 JAN 1991

CE006704 ♂ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 28 JAN 1991

ssp. *paraguayae* Cherrie & Reichenberger, 1921

CE009033 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE010221 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (YED/YED) 12 MAY 1995

CE007662 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

CE008044 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (JRC/YED) 11 JAN 1992

98FP0330 ♂ (ÑEE) Camba Cuá, Isla Umbú (Col. AOC) 21 FEB 1998

CE008651 ♂ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE009043 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993

CE010479 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 15 OCT 1995

CE007394 ♂ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 17 JAN 1992 No tail.

CE007424 ♀ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 17 JAN 1992

CE010212 ♀ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 11 MAY 1995

CE010213 ♀ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 11 MAY 1995

CE010214 ♂ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 11 MAY 1995

CE010216 ♂ (ÑEE) Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (YED/YED) 12 MAY 1995

CE010217 ♂ (ÑEE) Paraje Yacaré, Arroyo

Yacaré y Ruta Nacional IV (YED/YED)
12 MAY 1995

CE01218 ♂ (ÑEE) Paraje Yacaré, Arroyo
Yacaré y Ruta Nacional IV (YED/YED)
12 MAY 1995

CE007367 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 10 JAN 1992

CE007432 Un (ÑEE) Paso Lengá, Tres Bo-
cas (AOC/YED) 10 JAN 1992

CE007911 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

CE007914 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

CE007918 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

CE007366 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992

CE005424 ♂ (PAR) Mbocayá, Sapucaí
(JRC/YED) 14 NOV 1989

CE006705 ♀ (PHA) Casco Estancia Guy
(JRC/YED) 10 DEC 1990

CE006707 Un (PHA) Casco Estancia Guy
(JRC/YED) 10 DEC 1990

CE002833 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986 Broken upper man-
dible

Paraguayan specimens are traditionally attrib-
uted to *F. r. paraguayae*. However, we note
that the specimens from APA, CAN, COR and
PAR are more warmly buff below (those from
APA and CAN most strongly so, verging on
cinnamon), including the vent and perhaps
tend towards *F. r. rufus*, whilst those from
ÑEE and PHA are notably greyer-buff below
with a white vent, and a darker, browner head
and are perhaps true *F. r. paraguayae*. The
subspecific designations should be considered
tentative.

Ochre-breasted Foliage-gleaner

Anabacerthia lichtensteini (Cabanis & Heine,
1859) (1)

CE007761 ♂ (APA) Itabó Itaipú (YED/
YED) 06 AUG 1992

Little Thornbird

Phacellodomus sibilatrix Sclater, 1879 (2)
CE007887 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 15 JAN 1992

EBÑ0016 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 20 JAN 1992

Greater Thornbird

Phacellodomus ruber (Vieillot, 1817) (26)

CE004043 ♂ (CEN) Ñu Guazú, Asunción
(YED/YED) 21 OCT 1987

CE004044 ♂ (CEN) Ñu Guazú, Asunción
(YED/YED) 23 OCT 1987

CE003263 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987

CE004783 ♂ (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 20 JAN 1989

98FP0328 ♂ (ÑEE) Camba Cuá, Isla Umbú
(AOC/YED) 21 FEB 1998

CE008758 ♀ (ÑEE) Curupayty (AOC/YED)
05 AUG 1993

CE008976 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993

96NP0114 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996

96NP0142 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996

CE007183 ♂ (ÑEE) Isla Hú (AOC/YED)
13 JAN 1992

CE007352 ♂ (ÑEE) Isla Hú (AOC/YED)
13 JAN 1992

CE008810 ♂ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 18 JAN 1992

CE008811 ♀ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 18 JAN 1992

CE007878 ♀ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 JAN 1992

CE007941 ♀ (ÑEE) Puerto Naranjito (YED/
YED) 19 SEP 1992

CE007950 ♂ (ÑEE) Puerto Naranjito (YED/
YED) 19 SEP 1992

CE009398 ♂ (ÑEE) Puerto Naranjito (JRC/
YED) 13 JAN 1994

CE007661 ♂ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 14 JAN 1992

- CE007875 ♀ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992
 CE007879 ♂ (ÑEE) Riacho Ñeembucú (AOC/YED) 17 JAN 1992
 CE007880 ♂ (ÑEE) Riacho Ñeembucú (AOC/YED) 18 JAN 1992
 CE005429 ♂ (PAR) Mbocayá, Sapucaí (JRC/YED) 16 NOV 1989
 CE002855 ♀ (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986
 CE002856 ♀ (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986
 CE002858 Un (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986
 CE003264 ♂ (PHA) Rio Paraguay, 65 km N de Asunción (AOC/YED) 06 JAN 1987

Firewood-gatherer

- Anumbius annumbi* (Vieillot, 1817) (2)
 CE007377 ♂ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 18 JAN 1992
 CE008199 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 20 JAN 1992

Lark-like Brushrunner

- Coryphistera alaudina* Burmeister, 1860 (12)
 CE004014 ♀ (BOQ) Fortín Toledo (YED/YED) 23 FEB 1988
 CE008828 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993
 CE007844 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992
 CE008747 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993
 CE007874 ♀ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 17 JAN 1992
 CE008055 Un (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 18 JAN 1992
 CE008057 ♂ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 18 JAN 1992
 CE007873 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992
 CE008056 ♂ (ÑEE) Paso Lengá, Tres Bocas

(AOC/YED) 19 JAN 1992

- CE007664 ♀ (ÑEE) Riacho Cai Mbocá, 5 km SW Mburicá (YED/YED) 14 JAN 1992
 CE008045 ♂ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992
 CE005341 ♂ (PHA) Teniente Primera Irala Fernández (AOC/YED) 14 SEP 1989

We concur with Contreras (1980) that the characteristics that separate the two proposed subspecies *C. a. alaudina* Burmeister, 1860 and *C. a. campicola* Todd, 1915 are invalid. Supposed differences in wing length (70-73 mm in *C. a. alaudina*; 79-80 mm in *C. a. campicola*) and tail length (67-70 mm in *C. a. alaudina*; 75 mm in *C. a. campicola*) disappear in this single series from ÑEE where wing lengths of 70.2-80.8 mm (mean 74.7 mm) and tail lengths of 59-76 mm (mean 67.3 mm) were recorded, covering the entire range of variation for the species. Nor were we able to identify the proposed differences in colouration, with considerable variation in appearance noted.

*Short-billed Canastero

- Asthenes baeri* (Berlepsch, 1906) (1)
 ssp. *chacoensis* Brodkorb, 1938
 CE003928 ♀ (BOQ) Fortín Toledo (YED/YED) 23 FEB 1988

*Sharp-billed Canastero

- Asthenes pyrrholeuca* (Vieillot, 1817) (1)
 ssp. *pyrrholeuca* (Vieillot, 1817)
 CE008794 Un (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

Stripe-crowned Spinetail

- Cranioleuca pyrrhophia* (Vieillot, 1818) (1)
 ssp. *pyrrhophia* (Vieillot, 1818)
 No number Un (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

Yellow-chinned Spinetail

Certhiaxis cinnamomeus (Gmelin, 1788) (3)ssp. *russeolus* (Vieillot, 1817)

EBÑ00017 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 21 JAN 1992

EBÑ00036 ♂ (ÑEE) Paso Lengá, Tres Bocas (JRC & Rafael González/YED) 19 JAN 1992

EBÑ00037 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 21 JAN 1992

Chotoy Spinetail*Schoeniophylax phryganophilus* (Vieillot, 1817) (10)ssp. *phryganophilus* (Vieillot, 1817)

CE004682 ♀ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 21 JAN 1989

CE010176 ♂ (ÑEE) Colonia Mburicá (AOC/YED) 07 JUL 1995

CE008659 Un (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008751 ♀ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008750 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

CE008048 ♂ (ÑEE) Isla Hũ 19 km NE Pilar (AOC/YED) 13 JAN 1992

CE008053 ♀ (ÑEE) Orilla N Riacho Ñeembucú (JRC/YED) 18 JAN 1992

CE008054 ♂ (ÑEE) Orilla N Riacho Ñeembucú (AOC/YED) 18 JAN 1992

EBÑ0002 ♂ (ÑEE) Riacho Cai Mbocá, 5 km SW Mburicá (AOC/YED) 14 JAN 1992

CE006757 ♂ (PHA) 3 km N Casco Estancia Villa Rey (Rafael González Bordón/YED) 24 FEB 1991

Pale-breasted Spinetail*Synallaxis albescens* Temminck, 1823 (2)ssp. *australis* Zimmer 1935

CE005231 ♂ (CEN) Ñu Guazú, Asunción (YED/YED) 05 AUG 1989

CE008907 ♂ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993

Sooty-fronted Spinetail*Synallaxis frontalis* Pelzeln, 1859 (25)

CE004639 ♂ (MIS) Corate-i, Ayolas (AOC/YED) 16 FEB 1989

CE004654 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 19 JAN 1989

CE004790 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989

CE004800 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989

No number ♂ (ÑEE) 17 km NE Pilar (JRC/YED) 15 OCT 1995

92EP205 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (JRC/YED) 13 JAN 1992

CE007552 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (YED/YED) 12 SEP 1992

CE008655 Un (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008966 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993

CE008996 ♂ (ÑEE) Estancia San Antonio, Tacuaras (JRC/YED) 04 SEP 1993

CE009076 ♀ (ÑEE) Isla Hũ, 17 km NE Pilar (AOC/YED) 06 NOV 1993

CE007428 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 19 JAN 1992

CE008694 ♂ (ÑEE) Paso Lengá, Tres Bocas (JRC/YED) 19 JAN 1992

CE007936 ♀ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992

CE007939 ♂ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992

CE007940 ♀ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992

CE007948 ♂ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992

CE007866 ♂ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992

CE007901 ♀j (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992

99PM007 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

- 99PM022 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999
 99PM032 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999
 CE003054 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 28 AUG 1986
 86SP091 Un (PAR) Quiindy (AOC/YED) 01 SEP 1986
 CE002815 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

TYRANNIDAE
(46 species)

Greenish Elaenia

- Myiopagis viridicata* (Vieillot, 1817) (1)
 ssp. *viridicata* (Vieillot, 1817)
 CE004583 Un (MIS) Estancia Guarepyá, Santiago (AOC/YED) 22 JAN 1988

Yellow-bellied Elaenia

- Elaenia flavogaster* (Thunberg, 1822) (3)
 ssp. *flavogaster* (Thunberg, 1822)
 CE003361 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 09 JAN 1987
 CE006697 ♀ (COR) La Escondida, 7 km NE Eusebio Ayala (YED/YED) 28 JAN 1991
 CE002665 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) AUG 1986

***Large Elaenia**

- Elaenia spectabilis* (Pelzeln, 1868) (6)
 CE004593 ♀ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 21 JAN 1989
 96AP001 ♂ (ÑEE) Barrio General Díaz, Pilar (JRC/YED) 21 APR 1996
 CE009085 ♀ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 06 NOV 1993
 CE010474 ♀ (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 15 OCT 1995
 CE008790 ♂ (ÑEE) Paso Lengá, Tres Bocas (JRC/YED) 19 JAN 1992
 CE005413 ♂ (PAR) Sapucaí (JRC/YED) 15 NOV 1989

White-crested Elaenia

- Elaenia albiceps* (Lafresnaye & d'Orbigny, 1837) (1)
 ssp. *chilensis* Hellmayr, 1927
 CE004069 ♀ (CEN) Ñu Guazú, Asunción (YED/YED) 20 OCT 1987

Small-billed Elaenia

- Elaenia parvirostris* (Pelzeln, 1868) (6)
 CE006698 ♀ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 28 JAN 1991
 CE006699 ♀ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 24 JAN 1991
 CE008841 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993
 96NP0113 ♂ (ÑEE) Humaitá (AOC/YED) 05 NOV 1996
 CE008556 ♀ (ÑEE) Puerto Naranjito (AOC/YED) 11 APR 1993
 99PM073 ♀ (PAR) Lago Ypoá (AOC/YED) 09 MAY 1999

Southern Beardless-Tyrannulet

- Camptostoma obsoletum* (Temminck, 1824) (10)
 ssp. *obsoletum* (Temminck, 1824)
 CE004029 ♀ (BOQ) Fortín Toledo (No coll.) 22 FEB 1988
 CE004741 ♂ (MIS) Estancia Guarepyá, Santiago (No coll.) 20 JAN 1989
 CE008779 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 04 SEP 1993
 CE008983 ♀ (ÑEE) Medina 15 km E Pilar (JRC/AOC) 08 SEP 1993
 CE008248 Un (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 11 JAN 1992
 EBÑ000039 Un (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 11 JAN 1992
 99PM049 ♀ (PAR) Lago Ypoá (AOC/YED) 08 MAY 1999
 99PM077 Un (PAR) Lago Ypoá (AOC/YED) 11 MAY 1999
 CE002889 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (No coll.) 29 AUG 1986
 CE002901 ♂ (PHA) Pozo Colorado (AOC/

YED) 28 SEP 1986

Suiriri Flycatcher*Suiriri suiriri* (Vieillot, 1818) (20)ssp. *suiriri* (Vieillot, 1818)

CE005131 ♀ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

CE008823 Un (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE009026 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

EBÑ000128 ♂ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (AOC/YED) 28 AUG 1993

CE007892 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

92EP0271 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (JRC/YED) 11 JAN 1992

CE008767 ♀ (ÑEE) Curupaty (AOC/YED) 05 AUG 1993

CE008808 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

CE009004 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 APR 1993

CE007407 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992

CE007913 ♀ (ÑEE) Paso Lengá, Tres Bocas (Nelson Pérez/YED) 15 SEP 1992

CE008090 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992

CE008097 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 21 JAN 1992

CE008913 ♂ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993

CE006645 ♂ (PHA) 2.5 km SW Casco Estancia Villa Rey (JRC/YED) 23 FEB 1991

CE006634 ♀ (PHA) Casco Estancia Guy (JRC/YED) 08 DEC 1990

CE002825 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

CE002863 ♂ (PHA) Pozo Colorado (AOC/

YED) 28 SEP 1986

CE002886 ♂ (PHA) Pozo Colorado (AOC/YED) 29 SEP 1986

CE002887 ♂ (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986

Sooty Tyrannulet*Serpophaga nigricans* (Vieillot, 1817) (1)

99PM089 ♀ (PAR) Lago Ypoá (AOC/YED) 12 MAY 1999

White-crested Tyrannulet*Serpophaga subcristata* (Vieillot, 1817) (5)Ssp. *subcristata* (Vieillot, 1817)

EBÑ00040 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992

CE007943 ♀ (ÑEE) Puerto Naranjito (Nelson Pérez/YED) 19 SEP 1992

99PM005 Un (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM006 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM023 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

White-bellied Tyrannulet*Serpophaga "munda"* Berlepsch, 1893 (1)

CE008284 Un (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993

The tail measurement of this specimen is 46 mm, concurring with the findings of Zimmer (1955), who restricted longer-tailed (tail 50-56 mm) "true *munda*" to highlands of Bolivia and Argentina and included white-bellied "Chaco *munda*" of Paraguay as a variant form of *Serpophaga subcristata* (tail 45-49.5 mm).

Straneck's Tyrannulet*Serpophaga griseicapilla* Straneck, 2007 (3)

CE005384 Un (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

CE008310 ♀ (ÑEE) Estancia Paso Pucú, Curupaty (AOC/YED) 05 AUG 1993

CE003147 ♂ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

Yellow Tyrannulet

- Capsiempis flaveola* (Lichtenstein, 1823) (1)
 ssp. *flaveola* (Lichtenstein, 1823)
 CE007577 ♀ (APA) Vivero Forestal Itaipú,
 Hernandárias (YED/YED) 29 MAY 1992

Bearded Tachuri

- Polystictus pectoralis*^{NT} (Vieillot, 1817) (1)
 ssp. *pectoralis* (Vieillot, 1817)
 CE012753 ♂ (COR) Caacupé (B. Piran/B.
 Piran) 18 JAN 1950

Crested Doradito

- Pseudocolopteryx sclateri* (Oustalet, 1892) (2)
 CE008865 ♂ (ÑEE) Isla Hú, 17 km NE Pilar
 (JRC/YED) 06 NOV 1993
 99PM092 Un (PAR) Lago Ypoá (AOC/YED)
 12 MAY 1999

Southern Antpipit

- Corythopsis delalandi* (Lesson, 1830) (1)
 CE007752 ♂ (APA) Itabó Itaipú (YED/
 YED) 05 AUG 1992

***Tawny-crowned Pygmy-Tyrant**

- Euscarthmus meloryphus* Wied, 1831 (2)
 ssp. *meloryphus* Wied, 1831
 CE009036 Un (ÑEE) Arroyo Dos Hermanas
 y Ruta Nacional IV (AOC/YED) 28
 AUG 1993
 EBÑ00008 ♀ (ÑEE) Paso Lengá, Tres Bocas
 (AOC/YED) 20 JAN 1992

Greater Wagtail-Tyrant

- Stigmatura budytoides* (Lafresnaye &
 d'Orbigny, 1837) (1)
 ssp. *inzonata* Wetmore & Peters, 1923
 CE005411 ♀ (BOQ) Estancia Coë Pyahú
 (JRC/YED) 10 SEP 1989

Grey-hooded Flycatcher

- Mionectes rufiventris* Cabanis, 1846 (1)
 CE003936 ♀ (CAN) 17 km SE Ygatimí
 (JRC/YED) 16 FEB 1988

Sepia-capped Flycatcher

- Leptopogon amaurocephalus* Tschudi, 1846
 (3)
 ssp. *amaurocephalus* Tschudi, 1846
 CE001244 ♂ (PAR) Cordillera de los Altos
 (YED/YED) 07 AUG 1985
 CE001327 ♀ (PAR) Cordillera de los Altos
 (YED/YED) 07 AUG 1985
 CE004037 ♀ j (CAN) 17 km SE Ygatimí
 (JRC/YED) 16 FEB 1988

***Southern Scrub-Flycatcher**

- Sublegatus modestus* (Wied, 1831) (2)
 ssp. *brevirostris* (Wied, 1831)
 EBÑ000127 ♀ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 04 SEP 1993
 CE002914 ♂ (PHA) Pozo Colorado (AOC/
 YED) 28 SEP 1986

Pearly-vented Tody-Tyrant

- Hemitriccus margaritaceiventer* (d'Orbigny &
 Lafresnaye, 1837) (27)
 ssp. *margaritaceiventer* (d'Orbigny & La-
 fresnaye, 1837)
 CE004053 ♂ (CEN) Ñu Guazú, Asunción
 (YED/YED) 21 OCT 1987
 CE005195 ♀ (CEN) Ñu Guazú, Asunción
 (YED/YED) 05 AUG 1989
 CE005239 ♂ (CEN) Ñu Guazú, Asunción
 (YED/YED) 04 AUG 1989
 CE005243 ♂ (CEN) Ñu Guazú, Asunción
 (YED/YED) AUG 1989
 CE004788 ♀ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 13 FEB 1989
 96JP010 ♂ (ÑEE) Arroyo Montuoso y
 Ruta Nacional IV (AOC/YED) 14
 JUN 1996
 96JP033 ♀ (ÑEE) Arroyo Montuoso y
 Ruta Nacional IV (AOC/YED) 15
 JUN 1996
 CE008649 ♀ (ÑEE) Curupayty (AOC/
 YED) 05 AUG 1993
 CE008658 ♂ (ÑEE) Curupayty (AOC/
 YED) 05 AUG 1993
 CE008660 Un (ÑEE) Curupayty (AOC/

YED) 05 AUG 1993

CE008699 ♀ (ÑEE) Curupayty (AOC/
YED) 06 AUG 1993CE008232 ♀ (ÑEE) Isla Hú (AOC/YED)
13 JAN 199295OP070 ♀ (ÑEE) Isla Hú (AOC/YED)
15 OCT 199595OP076 ♂ (ÑEE) Isla Hú (AOC/YED)
15 OCT 199595OP087 ♀ (ÑEE) Isla Hú 17 km NE Pilar
(JRC/YED) 15 OCT 1995CE008903 ♂ (ÑEE) Puerto Arara'a, Rio
Paraguay (JRC/YED) 18 APR 1993CE008905 ♀ (ÑEE) Puerto Arara'a, Rio
Paraguay (JRC/YED) 18 APR 1993CE008217 ♀ (ÑEE) Riacho Ñeembucú
(AOC/YED) 17 JAN 1992CE008229 ♂ (ÑEE) Riacho Ñeembucú
(AOC/YED) 17 JAN 1992CE008230 ♂ (ÑEE) Riacho Ñeembucú
(AOC/YED) 17 JAN 1992CE008231 Un (ÑEE) Riacho Ñeembucú
(AOC/YED) 18 JAN 199299PM053 ♂ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 08 MAY 199999PM013 ♂ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 05 MAY 1999CE002481 ♀ (PAR) Quiindy (AOC/YED)
31 AUG 1986CE002867 Un (PHA) Pozo Colorado
(YED/YED) 27 SEP 1986CE002877 ♀ (PHA) Pozo Colorado
(AOC/YED) 27 SEP 1986CE003276 ♂ (PHA) Riacho Pucu, Rio
Paraguay (AOC/YED) 06 JAN 1987**Yellow-olive Flycatcher***Tolmomyias sulphurescens* (Spix, 1825) (3)ssp. *sulphurescens* (Spix, 1825)No number ♂ (ÑEE) 16 km E Pilar (AOC/
YED) 27 SEP 1996CE008621 ♀ (ÑEE) Estancia Paso Pucú,
Curupayty (AOC/YED) 06 AUG 1993CE006617 ♀ (PHA) Casco Estancia Guy
(JRC/YED) 10 DEC 1990**White-throated Spadebill***Platyrrinchus mystaceus* Vieillot, 1818 (1)ssp. *mystaceus* Vieillot, 1818CE007565 ♂ (APA) Tatí Yupí (YED/YED)
27 MAY 1992**Bran-coloured Flycatcher***Myiophobus fasciatus* (Müller, 1776) (7)ssp. *flammeiceps* (Temminck, 1822)CE004066 ♂ (CEN) Ñu Guazú, Asunción
(No coll.) 20 OCT 1987CE004067 ♀ (CEN) Ñu Guazú, Asunción
(No coll.) 20 OCT 1987CE005187 ♀ (CEN) Ñu Guazú, Asunción
(No coll.) 05 AUG 1989CE004740 Un (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 21 JAN 1989CE004796 ♂ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 14 FEB 198996NP0139 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996CE002835 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986**Euler's Flycatcher***Lathrotriccus euleri* (Cabanis, 1868) (1)ssp. *argentinus* (Cabanis, 1868)CE009433 ♀ (ÑEE) Isla Hú, 19 km NE Pilar
(JRC/YED) 15 OCT 1995**Fuscous Flycatcher***Cnemotriccus fuscatus* (Wied, 1831) (9)ssp. "*bimaculatus*" (d'Orbigny & Lafresnaye,
1837)CE003948 ♀ (CAN) 17 km SE Ygatimí
(JRC/YED) 17 FEB 1988 No tail.CE007060 ♂ (CON) Paso Mbutu (Rafael
González & AOC/YED) 02 APR 199196NP0150 ♀ (ÑEE) Humaitá (Col. AOC)
05 NOV 1996CE008286 ♂ (ÑEE) Isla Hú, 17 km N Pilar
(JRC/YED) 13 JAN 1992CE013062 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 15 JAN 1992

CE007939 Un (ÑEE) Puerto Naranjito (Nel-

son Pérez/YED) 19 SEP 1992

99PM051 Un (PAR) Lago Ypoá (AOC/YED)
08 MAY 1999

99PM054 Un (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 08 MAY 1999

CE002978 ♂ (PAR) Puesto Taruma Fondo,
Lago Ypoá (AOC/YED) 29 AUG 1986

All of the specimens are of the white-bellied subspecies traditionally assigned to ssp. *bimaculatus*. However, there are nomenclatural issues regards the correct name for this form which are still to be resolved, and the name traditionally used probably does not apply (Herzog et al. 2017).

Vermilion Flycatcher

Pyrocephalus rubinus (Boddaert, 1783) (7)

ssp. *rubinus* (Boddaert, 1783)

CE005383 ♂i (BOQ) Estancia Coë Pyahú
(JRC/YED) 10 SEP 1989

CE008615 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 10 JUL 1993

CE008108 ♂i (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 10 JAN 1992

CE008109 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

CE003041 ♂ (PHA) Pozo Colorado (AOC/
YED) 2 SEP 1986

CE003042 ♂i (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

CE003043 ♂i (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

Blue-billed Black-Tyrant

Knipolegus cyanirostris (Vieillot, 1818) (1)

CE008603 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 15 SEP
1993

Cinereous Tyrant

Knipolegus striaticeps (Lafresnaye &
d'Orbigny, 1837) (2)

CE005352bis ♀ (BOQ) Estancia Coë Pyahú
(JRC/YED) 10 SEP 1989

CE000923 ♂ (BOQ) Teniente Montanía

(AOC/YED) 08 SEP 1984

Yellow-browed Tyrant

Satrapa icterophrys (Vieillot, 1818) (8)

CE004676 ♂ (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 29 JAN 1989

CE008466 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 MAY 1993

CE009082 ♀ (ÑEE) Isla Hú, 17 km NE Pilar
(AOC/YED) 06 NOV 1993

EBÑ00083 Un (ÑEE) Orilla N Riacho
Ñeembucú (AOC/YED) 18 JAN 1992

EBÑ00084 ♂ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 18 JAN 1992

EBÑ00085 ♂ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 18 JAN 1992

96NP0167 ♀ (ÑEE) San Roque Medina
(Col. AOC) 13 NOV 1996

CE006636 ♂ (PHA) Casco Estancia Guy
(JRC/YED) 24 JAN 1991 No tail.

White Monjita

Xolmis irupero (Vieillot, 1823) (5)

ssp. *irupero* (Vieillot, 1823)

CE005321 ♀ (BOQ) Estancia Coë Pyahú
(JRC/YED) 10 SEP 1989

CE004782 ♂j (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 20 JAN 1988

CE008585 ♀ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993

EBÑ00014 ♂ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 20 JAN 1992

CE002970 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

White-headed Marsh Tyrant

Arundinicola leucocephala (Linnaeus, 1764)
(1)

98FP0325 ♂ (ÑEE) Camba Cuá, Isla Umbú
(No coll.) 21 FEB 1998

Long-tailed Tyrant

Colonia colonus (Vieillot, 1818) (2)

ssp. *colonus* (Vieillot, 1818)

CE004055 ♂ (CAN) 17 km SE Ygatimí

(JRC/YED) 17 FEB 1988
 CE004716 ♂j (CAN) Puente Kyhá, F Cabal-
 lero d'Álvarez (AOC/YED) 14 JAN 1989

Cattle Tyrant

Machetornis rixosa (Vieillot, 1819) (9)

ssp. *rixosa* (Vieillot, 1819)

CE004673 ♀ (MIS) Estancia Guarepyá,
 Santiago (AOC/YED) 19 JAN 1989
 98FP0332 ♂ (ÑEE) Camba Cuá, Isla Umbú
 (Col. AOC) 21 FEB 1998
 CE008607 ♂ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 MAY 1993
 CE008784 ♀ (ÑEE) Estancia San Antonio,
 Tacuaras (AOC/YED) 09 APR 1993
 CE008222 ♀ (ÑEE) Riacho Ñeembucú (Ra-
 fael González/YED) 18 JAN 1992
 CE008223 ♂ (ÑEE) Riacho Ñeembucú (Ra-
 fael González/YED) 18 JAN 1992
 CE008224 Un (ÑEE) Riacho Ñeembucú
 (Rafael González/YED) 18 JAN 1992
 CE005330 ♂ (PAR) Mbocayá, Sapucaí (No
 coll.) 14 NOV 1989
 CE002849 ♀ (PHA) Pozo Colorado (AOC/
 YED) 27 SEP 1986

Great Kiskadee

Pitangus sulphuratus (Linnaeus, 1766) (12)

ssp. *argentinus* Todd, 1952

98FP0329 ♀ (ÑEE) Camba Cuá, Isla Umbú
 (AOC/YED) 21 FEB 1998
 96NP0126 Un (ÑEE) Estero Cambá, Tac-
 uaras (Col. AOC) 14 NOV 1996
 CE009092 ♂ (ÑEE) Isla Hú (AOC/YED)
 06 NOV 1993
 CE007927 ♀ (ÑEE) Paso Lengá, Tres Bocas
 (YED/YED) 15 SEP 1992
 CE007930 ♀ (ÑEE) Paso Lengá, Tres Bocas
 (YED/YED) 15 SEP 1992
 CE008908 ♀ (ÑEE) Puerto Arara'a, Rio
 Paraguay (JRC/YED) 18 APR 1993
 CE007934 ♂ (ÑEE) Riacho Cai Mbocá,
 Mburiacá (YED/YED) 17 SEP 1992
 CE008075 ♂ (ÑEE) Riacho Ñeembucú
 (AOC/YED) 17 JAN 1992

CE008076 ♀j (ÑEE) N. Riacho Ñeembucú
 (AOC/YED) 17 JAN 1992
 CE009379 ♀ (ÑEE) Ruta Nacional IV km 2
 (AOC/YED) 19 FEB 1994
 CE009380 ♀ (ÑEE) Ruta Nacional IV km 2
 (YED/YED) 19 FEB 1994
 99PM063 ♂ (PAR) Playa Taruma, Lago
 Ypoá (AOC/YED) 08 MAY 1999

Three-striped Flycatcher

Conopias trivirgatus (Wied, 1831) (1)

ssp. *trivirgatus* (Wied, 1831)

CE004672 ♂ (CAN) Santa Maria, 12 km N
 Puente Kyhá (AOC/YED) 12 JAN 1989

Streaked Flycatcher

Myiodynastes maculatus (Müller, 1776) (17)

ssp. *solitarius* (Vieillot, 1819)

CE004669 ♂ (CAN) Puente Kyhá, F Cabal-
 lero d'Álvarez (JRC/YED) 14 JAN 1989
 CE006678 ♂ (COR) 9 km NE Eusebio Ayala
 (AOC/YED) 28 JAN 1991
 CE004767 ♂ (MIS) Corate-i, Ayolas (AOC/
 YED) 16 FEB 1989
 CE004829 ♀ (MIS) Corate-i, Ayolas (AOC/
 YED) 16 FEB 1989
 CE004827 ♂ (MIS) Estancia San Vicente,
 Santiago (AOC/YED) 14 FEB 1989
 97FP0239 ♂ (ÑEE) Estero Cambá, Tacuaras
 (Col. AOC) 27 FEB 1997
 CE009191 ♂ (ÑEE) Granja San Ysidoro,
 Villa Paso (JRC/YED) 08 FEB 1994
 CE008100 ♂ (ÑEE) Isla Hú, 9 km NE Pilar
 (AOC/YED) 13 JAN 1992 no tail
 CE008099 ♂ (ÑEE) Orilla N Riacho Ñeem-
 bucú (AOC/YED) 17 JAN 1992
 CE007310 ♂ (ÑEE) Paso Lengá, Tres Bocas
 (JRC/YED) 15 JAN 1992
 CE009399 Un (ÑEE) Puerto Naranjito (JRC/
 YED) 13 JAN 1994
 CE009378 ♂ (ÑEE) Ruta Nacional IV km
 2 (Rómulo Ribón/YED) 19 FEB 1994
 96NP0161 ♂ (ÑEE) Yatayty, 3ª Compañía
 (Col. AOC) 08 NOV 1996 No tail.
 CE005422 ♂ (PAR) Mbocayá, Sapucaí

(JRC/YED) 14 NOV 1989

CE005428 ♀ (PAR) Mbocayá, Sapucaí
(JRC/YED) 16 NOV 1989

CE002854 ♂ (PHA) Pozo Colorado (JRC/
YED) 28 SEP 1986

CE006630 ♀ (PHA) Puesto Santa Cristina,
Estancia Villa Rey (JRC/YED) 09 DEC
1990

Boat-billed Flycatcher

Megarynchus pitangua (Linnaeus, 1766) (1)

ssp. *pitangua* (Linnaeus, 1766)

CE008608 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 18 APR 1993

Variiegated Flycatcher

Empidonomus varius (Vieillot, 1818) (1)

ssp. *varius* (Vieillot, 1818)

CE005425 Un (PAR) Mbocayá, Sapucaí (No
coll.) 16 NOV 1989

*Crowned Slaty Flycatcher

Empidonomus aurantioatrocristatus
(d'Orbigny & Lafresnaye, 1837) (2)

ssp. *aurantioatrocristatus* (d'Orbigny &
Lafresnaye, 1837)

EBÑ00104 Un (ÑEE) Isla Hú, 12 km NE
Pilar (AOC/YED) 13 JAN 1992

CE007393 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 15 JAN 1992

Tropical Kingbird

Tyrannus melancholicus Vieillot, 1819 (22)

ssp. *melancholicus* Vieillot, 1819

CE004062 ♀ (CEN) Ñu Guazú, Asunción
(YED/YED) 21 OCT 1987

CE004063 ♀ (CEN) Ñu Guazú, Asunción
(YED/YED) 23 OCT 1987

CE003194 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 06 JAN 1987

CE003196 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987

CE003224 ♀ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987

CE003248 ♂ (COR) Acosta Ñu, Compañía

Costa (AOC/YED) 07 JAN 1987

CE003249 ♀ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 07 JAN 1987

CE006731 ♀ (COR) La Escondida, 7 km
NE Eusebio Ayala (YED/YED) 24 JAN
1991

CE006714 ♂ (COR) La Escondida, Eusebio
Ayala (AOC/YED) 27 JAN 1991

CE007958 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992

CE008080 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 13 JAN
1992

CE008191 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992

CE010528 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 13 JAN
1992

96NP0205 ♂ (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 26 NOV 1996

97FP0221 Un (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 14 FEB 1997

98FP0321 Un (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 24 FEB 1998

98FP0322 Un (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 24 FEB 1998

96NP0124 ♂ (ÑEE) Humaitá (Col. AOC)
05 NOV 1996

CE007847 Un (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992

CE007957 ♀ (ÑEE) Riacho Cai Mbocá, 5
km SW Mburicá (AOC/YED) 14 JAN
1992

96NP0160 ♂ (ÑEE) Yatayty, 3ª Compañía
(YED/YED) 08 NOV 1996

CE005534 ♂ (PAR) Mburicá, Sapucaí
(JRC/YED) 16 NOV 1989

Fork-tailed Flycatcher

Tyrannus savana Daudin, 1802 (2)

ssp. *savana* Daudin, 1802

CE003204 ♀ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

CE009083 ♂ (ÑEE) Isla Hú (AOC/YED)
06 NOV 1993

Rufous Casiornis

Casiornis rufus (Vieillot, 1816) (3)

CE006777 ♂ (APA) Tatí Yupí (Andres
Colmán/YED) 26 APR 1991

96NP0188 ♀ (ÑEE) Estero Cambá, Tacuaras
(Col. AOC) 26 NOV 1996

CE007383 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

Swainson's Flycatcher

Myiarchus swainsoni Cabanis & Heine, 1859
(16)

ssp. *swainsoni* Cabanis & Heine, 1859

CE004742 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 13 FEB 1989

CE009044 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993

CE009080 ♀ (ÑEE) Isla Hú, Arroyo Mon-
tuoso (AOC/YED) 06 NOV 1993

95OP071 ♂ (ÑEE) Isla Hú (AOC/YED) 15
OCT 1995

95OP072 ♂ (ÑEE) Isla Hú (AOC/YED) 15
OCT 1995

95OP078 Un (ÑEE) Isla Hú (AOC/YED)
15 OCT 1995

CE007378 ♂ (ÑEE) Isla Hú, 14 km NE Pilar
(AOC/YED) 13 JAN 1992

96NP0162 ♀ (ÑEE) San Roque Medina
(Col. AOC) 13 NOV 1996

96NP0154 ♀ (ÑEE) Yatayty, 3ª Compañía
(Col. AOC) 08 NOV 1996

99PM012 ♀ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 05 MAY 1999

99PM082 ♂ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 09 MAY 1999

99PM086 ♂ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 09 MAY 1999

CE002617 ♂ (PAR) Puesto Taruma Fondo,
Lago Ypoá (AOC/YED) 28 AUG 1986

CE002618 ♀ (PAR) Puesto Taruma Fondo,
Lago Ypoá (AOC/YED) 29 AUG 1986

CE002625 ♀ (PAR) Puesto Taruma Fondo,

Lago Ypoá (AOC/YED) 27 AUG 1986

ssp. *ferocior* Cabanis, 1883

CE003001 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986

Short-crested Flycatcher

Myiarchus ferox (Gmelin, 1789) (10)

ssp. *australis* Hellmayr, 1927

CE003202 ♂i (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

CE003203 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987

CE006744 ♀ (COR) La Escondida, 7 km NE
Eusebio Ayala (YED/YED) 16 JAN 1991

CE006747 ♂ (COR) Parque Nacional Vapor
Cué (AOC/YED) 25 JAN 1991

CE004892 ♀ (MIS) Corate-i, Ayolas (AOC/
YED) 16 FEB 1989

CE004784 ♂ (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 20 FEB 1989

CE008886 ♂ (ÑEE) 4 km NW boca Arroyo
Montuoso (Alejandro Giraud/YED) 15
APR 1993

96NP0199 ♂ (ÑEE) Estero Cambá, Tacuaras
(Col. AOC) 26 NOV 1996

CE008082 ♂ (ÑEE) Isla Hú, Arroyo Mon-
tuoso (JRC/YED) 13 JAN 1992

CE007884 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 14 JAN 1992

Brown-crested Flycatcher

Myiarchus tyrannulus (Müller, 1776) (23)

ssp. *tyrannulus* (Müller, 1776)

CE003881 ♀ (BOQ) Fortín Toledo (YED/
YED) 25 FEB 1988

CE004028 ♂j (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988

CE008038 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992

CE008084 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992

97MP0246 ♂ (ÑEE) Boquerón (Col. AOC)
17 MAR 1997

- CE008721 ♂ (ÑEE) Estancia Paso Pucú,
Curupayty (AOC/YED) 04 AUG 1993
- CE008927 ♀ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993
- CE008928 ♀ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 APR 1993
- 95OP075 ♀ (ÑEE) Isla Hú (AOC/YED) 15
OCT 1995
- 95OP077 Un (ÑEE) Isla Hú (AOC/YED)
15 OCT 1995
- 95OP079 ♀ (ÑEE) Isla Hú (AOC/YED) 15
OCT 1995
- CE009079 ♂ (ÑEE) Isla Hú, 17 km NE Pilar
(AOC/YED) 06 NOV 1993
- CE009897 ♀ (ÑEE) Isla Umbú (AOC/YED)
10 AUG 1994
- CE009904 ♀ (ÑEE) Isla Umbú (AOC/YED)
10 AUG 1994
- CE007857 ♂ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 20 JAN 1992
- CE007863 ♂ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 15 JAN 1992
- CE008085 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992
- CE008792 ♂ (ÑEE) Paso Lengá, Tres Bocas
(JRC/YED) 19 JAN 1992
- CE008898 ♂ (ÑEE) Riacho Cai Mbocá,
Mburiacá (Angel Brusquetti/YED) 15
APR 1993
- CE003002 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986
- CE003003 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986
- CE003004 ♀ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986
- CE003005 ♂ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

PIPRIDAE

(3 species)

^{AF}Swallow-tailed Manakin

- Chiroxiphia caudata* (Shaw, 1793) (1)
- CE007563 ♂ (APA) Tatí Yupí (YED/YED)
27 MAY 1992

White-bearded Manakin

- Manacus manacus* (Linnaeus, 1766) (1)
- ssp. *gutturatus* (Desmarest, 1806)
- CE007745 ♀ (APA) Itabó Itaipú (YED/
YED) 05 AUG 1992

Band-tailed Manakin

- Pipra fasciicauda* Hellmayr, 1906 (2)
- ssp. *scarlatina* Hellmayr, 1915
- CE000961 ♂ (PAR) Cordillera de los Altos
(Estela Muñoz Bado/YED) 07 AUG 1985
- CE000991 ♀ (PAR) Cordillera de los Altos
(Estela Muñoz Bado/YED) 10 AUG 1985

TITYRIDAE

(5 species)

Black-crowned Tityra

- Tityra inquisitor* (Lichtenstein, 1823) (2)
- ssp. *inquisitor* (Lichtenstein, 1823)
- CE004091 ♀ (CAN) 17 km SE Ygatimí
(JRC/YED) 17 FEB 1988
- CE005060 ♂ (MIS) Corate-i, Ayolas (AOC/
YED) 16 FEB 1989

^{AF}Greenish Schiffornis

- Schiffornis virescens* (Lafresnaye, 1838) (1)
- CE004083 ♂ (CAN) 17 km SE Ygatimí
(JRC/YED) 16 FEB 1988

Green-backed Becard

- Pachyramphus viridis* (Vieillot, 1816) (3)
- CE010378 ♀ (ÑEE) Arroyo Dos Hermanas
y Ruta Nacional IV (No coll.) SEP 1993
- 96JP027 ♂ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 15 JUN 1996
- CE007916 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

***White-winged Becard**

- Pachyramphus polychopterus* (Vieillot, 1818)
(2)
- ssp. *spixi* (Swainson, 1838)
- CE007531 ♀ (ÑEE) Riacho Cai Mbocá,
Mburiacá (AOC/YED) 14 JAN 1992

CE007859 ♀ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992 (Vieillot, 1822).

***Crested Becard**

Pachyramphus validus (Lichtenstein, 1823) (10)

ssp. *validus* (Lichtenstein, 1823)

CE004735 ♀ (MIS) Corate-i, Ayolas (No coll.) 16 FEB 1989

CE004834 ♀ (MIS) Corate-i, Ayolas (No coll.) 16 FEB 1989

CE004835 ♂ (MIS) Corate-i, Ayolas (No coll.) 16 FEB 1989

CE007856 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

CE007387 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 13 JAN 1992

CE009081 ♀ (ÑEE) Isla Hú (No coll.) 06 NOV 1993

EBÑ000118 ♂ (ÑEE) Isla Hú (AOC/YED) 12 SEP 1993

CE010482 ♀ (ÑEE) Isla Hú, 17 Km NE Pilar (JRC/YED) 15 OCT 1995

CE010482bis ♀ (ÑEE) Isla Hú, 17 Km NE Pilar (JRC/YED) 15 OCT 1995

CE005495 ♂ (PAR) Mbocáyá, Sapucaí (No coll.) 15 NOV 1989

VIREONIDAE

(2 species)

Rufous-browed Peppershrike

Cyclarhis gujanensis (Gmelin, 1789) (3)

ssp. *viridis* (Vieillot, 1822)

EBÑ00032 ♀ (ÑEE) Isla Hú, y Arroyo Montuoso 12 km NE Pilar (AOC/YED) 13 JAN 1992

EBÑ00031 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992

96NP0151 ♀ (ÑEE) Humaitá (AOC/YED) 05 NOV 1996

All three specimens show a greyish crown with a contrasting rufous supercilium consistent with Chaco specimens of the subspecies *C. g. viridis*

Red-eyed Vireo

Vireo olivaceus (Linnaeus, 1766) (17)

ssp. *chivi* (Vieillot, 1817)

CE003895 ♂ (BOQ) Fortín Toledo (YED/YED) 23 FEB 1988

CE003896 ♂ (BOQ) Fortín Toledo (YED/YED) 23 FEB 1988

CE003947 ♂ (BOQ) Fortín Toledo (YED/YED) 23 FEB 1988

CE004640 ♀ (MIS) Corate-i, Ayolas (AOC/YED) 16 FEB 1989

CE004585 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 20 JAN 1989

CE007545 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 20 JAN 1989

CE004798 Un (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989

CE004799 Un (MIS) Estancia San Vicente, Santiago (AOC/YED) 12 FEB 1989

CE004821 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 14 FEB 1989

EBÑ00033 ♂ (ÑEE) Isla Hú, 12 km NE Pilar (AOC/YED) 13 JAN 1992

CE009062 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (AOC/YED) 06 NOV 1993

CE009063 ♂ (ÑEE) Isla Hú, 17 km NE Pilar (AOC/YED) 06 NOV 1993

CE010484 Un (ÑEE) Isla Hú, 17 km NE Pilar (JRC/YED) 15 OCT 1995

EBÑ00034 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 19 JAN 1992

CE002858bis Un (PHA) Pozo Colorado (AOC/YED) 29 SEP 1986

CE002859bis Un (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986 No bill.

CE002619 Un (PHA) Ruta Transchaco km 217 (Salvador Peris/Salvador Peris) 19 DEC 1983

All specimens are assigned to *V. o. chivi* and not *V. o. diversus* Zimmer, 1941 on account of the dull brownish-olive upperparts and the grey-white underparts showing no hint of a yellow wash on the sides of the body.

CORVIDAE

(2 species)

Purplish Jay

- Cyanocorax cyanomelas* (Vieillot, 1818) (2)
 99PM037 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999
 CE006732 Un (PHA) Casco Estancia Guy (JRC/YED) 08 DEC 1990

Plush-crested Jay

- Cyanocorax chrysops* (Vieillot, 1818) (2)
 ssp. *chrysops* (Vieillot, 1818)
 97AP0270 Un (ÑEE) Boquerón (No coll.) 12 SEP 1997
 99PM038 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999

HIRUNDINIDAE

(4 species)

Tawny-headed Swallow

- Alopochelidon fucata* (Temminck, 1822) (1)
 CE006735 ♀ (COR) Parque Nacional Vapor Cué (JRC/YED) 25 JAN 1991

Brown-chested Martin

- Progne tapera* (Linnaeus, 1766) (6)
 ssp. *fusca* Vieillot, 1817
 CE012925 Un (COR) La Escondida, Eusebio Ayala (AOC/YED) 08 JAN 1987
 96NP0195 ♀ (ÑEE) Humaitá (Col. AOC) 05 NOV 1996
 CE008209 ♂ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992
 CE006638 ♂ (PHA) Casco Estancia Guy (JRC/YED) 23 FEB 1991
 CE002891 ♀ (PHA) Pozo Colorado (AOC/YED) 27 SEP 1986
 CE006616 ♀ (PHA) SW Casco Estancia Guy (JRC/YED) 08 DEC 1990

***White-winged Swallow**

- Tachycineta albiventer* (Boddaert, 1783) (1)
 97FP0230 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 14 FEB 1997

White-rumped Swallow

- Tachycineta leucorrhoa* (Vieillot, 1817) (2)
 CE006718 ♂ (COR) La Escondida, 3.5 km W Eusebio Ayala (JRC/YED) 29 JAN 1991
 CE008111 ♂ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 16 JAN 1992

TROGLODYTIDAE

(2 species)

House Wren

- Troglodytes aedon* Vieillot, 1809 (11)
 ssp. *musculus* Naumann, 1823
 CE003897 ♀ (BOQ) Fortín Toledo (YED/YED) 24 FEB 1988
 CE004647 ♂ (CAN) Puente Kyhá, F Caballero d'Álvarez (AOC/YED) 19 JAN 1989
 CE003275 Un (COR) Acosta Ñu, Compañía Costa (AOC/YED) 07 JAN 1987
 CE006674 ♀ (COR) Parque Nacional Vapor Cué (AOC/YED) 25 JAN 1991
 EBÑ00026 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992
 98FP0326 ♂ (ÑEE) Barrio General Díaz, Pilar (AOC/YED) 02 MAR 1998
 93AP0222 ♂ (ÑEE) Curupayty (AOC/YED) 04 AUG 1993
 95JP045 ♂ (ÑEE) Mburicá (AOC/YED) 07 JUL 1995
 CE008208 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 20 JAN 1992
 CE007944 ♂ (ÑEE) Puerto Naranjito (YED/YED) 19 SEP 1992
 CE005552 Un (PAR) Mbocayá, Sapucaí (JRC/YED) 14 NOV 1989

The subspecific identity of Paraguayan populations is unclear with Kroodsma et al. (2020) referring Chaco populations to *T. a. rex* Berlepsch & Leverkühn, 1890 and Oriental populations to *T. a. musculus* Naumann, 1823, whilst Brewer (2001) restricted the former subspecies with “brighter isabelline” underparts and “longer and heavier bill” to “central and eastern Bolivia”,

and assigned all Paraguayan populations to *T. a. musculus*. Within this small sample only CE004647 (CAN) stands out as being notably more richly coloured below. It shows none of the suggested differences in bill morphology, but is perhaps less conspicuously barred on the flight feathers. We tentatively assign all of these specimens to a variable *T. a. musculus* pending a modern revision of the subspecific limits in this species.

Thrush-like Wren

Campylorhynchus turdinus (Wied, 1821) (1)

ssp. *unicolor* Lafresnaye, 1846

CE007384 ♀ (PHA) Puerto Militar (JRC/YED) 04 SEP 1991

This is the specimen referred to in Contreras *et al.* (1992, 1993a).

POLIOPTILIDAE

(1 species)

Masked Gnatcatcher

Polioptila dumicola (Vieillot, 1817) (13)

ssp. *dumicola* (Vieillot, 1817)

CE005315 ♀ (BOQ) 13 km SE General Eugenio Garay (JRC/YED) 11 SEP 1989

CE005328 ♂ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

CE005179 ♀ (CEN) Ñu Guazú, Asunción (YED/YED) 05 JUL 1989

CE006715 ♀ (COR) La Escondida, 7 km NE Eusebio Ayala (AOC/YED) 27 JAN 1991

CE009016 ♀ (ÑEE) Arroyo Dos Hermanas y Ruta Nacional IV (Angel Brusquetti/YED) 28 AUG 1993

92EP262 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV, 7 km N Pilar (AOC/YED) 11 JAN 1992

97AP0286 ♀ (ÑEE) Boquerón (AOC/YED) 12 APR 1997

CE008342 ♂ (ÑEE) Curupayty (AOC/YED) 04 AUG 1993

CE008731 ♂ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008283 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 10 MAY 1993
Moulting tail

CE008924 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

CE007865 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992 Damaged bill

96NP0168 ♂ (ÑEE) San Roque Medina (Col. AOC) 13 NOV 1996

DONACOBIIDAE

(1 species)

Black-capped Donacobius

Donacobius atricapilla (Linnaeus, 1766) (3)

ssp. *atricapilla* (Linnaeus, 1766)

99PM028 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 06 MAY 1999

99PM093 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 12 MAY 1999

CE003234 ♀ (PHA) 20 km N Villa Hayes (AOC/YED) 06 JAN 1987 No tail

TURDIDAE

(3 species)

Pale-breasted Thrush

Turdus leucomelas Vieillot, 1818 (4)

ssp. *leucomelas* Vieillot, 1818

CE004076 ♀ (CAN) 17 km SE Ygatimí (JRC/YED) 16 FEB 1988

CE003232 ♀ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 08 JAN 1987

CE004951 ♀j (MIS) Estancia San Vicente, Santiago (AOC/YED) 13 FEB 1989

99PM043 ♂ (PAR) Lago Ypoá (AOC/YED) 07 MAY 1999

Rufous-bellied Thrush

Turdus rufiventris Vieillot, 1818 (10)

ssp. *rufiventris* Vieillot, 1818

CE007554 ♀ (ÑEE) Arroyo Montuoso Puente y Ruta Nacional IV (YED/YED) 12 SEP 1992

98FP0320 ♂ (ÑEE) Barrio General Díaz, Pilar (Col. AOC) 24 FEB 1998

- 97MP0268 ♀ (ÑEE) Boquerón (Col. AOC)
17 MAR 1997
CE008663 Un (ÑEE) Estancia Paso Pucú,
Curupayty (AOC/YED) 05 AUG 1993
96NP0198 Unj (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 26 NOV 1996
96NP0121 ♀ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996
CE008098 ♀ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 17 JAN 1992
CE007929 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992
CE005402 ♂ (PAR) Mbocayá, Sapucaí
(JRC/YED) 15 NOV 1989
CE006777 ♀ (PHA) Casco Estancia Guy
(YED/YED) 24 FEB 1991

Creamy-bellied Thrush

- Turdus amaurochalinus* Cabanis, 1851 (20)
CE006813 ♂ (APA) Reserva Itabó (YED/
YED) 16 MAY 1991
CE006814 ♀ (APA) Tatí Yupí (Andres Col-
mán/YED) 26 APR 1991
CE005769 ♂j (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988
CE005773 ♂j (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1990
CE007555 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (YED/YED) 12 SEP
1992
CE007900 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992
CE008171 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 13 JAN
1992
96JP006 ♂ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 13 JUN 1996
96NP0100 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 02 NOV
1996
96NP0104 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 02 NOV
1996
97JP0257 ♂ (ÑEE) Barrio General Díaz,

- Pilar (Col. AOC) 02 JUL 1997
96NP0122 ♂ (ÑEE) Humaitá (Col. AOC)
05 NOV 1996
96NP0137 ♀ (ÑEE) Humaitá (Col. AOC)
05 NOV 1996
CE007921 ♂ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992
CE007922 Un (ÑEE) Paso Lengá, Tres Bo-
cas (YED/YED) 15 SEP 1992
96NP0177 ♀ (ÑEE) San Roque Medina
(Col. AOC) 13 NOV 1996
97FP0236 Un (ÑEE) Tacuaras (AOC/YED)
27 FEB 1997
99PM003 ♀ (PAR) Lago Ypoá (AOC/YED)
04 MAY 1999
CE002467 ♂ (PAR) Quiindy (YED/YED)
31 AUG 1986
CE005720 ♂ (PHA) Pozo Colorado (AOC/
YED) 28 SEP 1986

The specimen label for CE005773 states that it was collected in 1990, but other specimens collected at this locality and on this date were collected in 1988. We suspect it may be an error.

MIMIDAE

(2 species)

Chalk-browed Mockingbird

- Mimus saturninus* (Lichtenstein, 1823) (7)
ssp. modulator (Gould, 1836)
96JP043 ♂ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 14 JUN 1996
96JP046 ♀ (ÑEE) Arroyo Montuoso y Ruta
Nacional IV (AOC/YED) 14 JUN 1996
CE008639 ♂ (ÑEE) Curupayty (AOC/YED)
05 AUG 1993
CE008606 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 09 MAY 1993
CE007882 ♀ (ÑEE) Riacho Ñeembucú
(AOC/YED) 18 JAN 1992
99PM021 ♀ (PAR) Lago Ypoá (AOC/YED)
05 MAY 1999
CE002872 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

White-banded Mockingbird

Mimus triurus (Vieillot, 1818) (1)

CE005344 ♀ (BOQ) 13 mm General E.
Garay (No coll.) 11 SEP 1989

MOTACILLIDAE

(1 species)

Yellowish Pipit

Anthus lutescens Pucheran, 1855 (1)

ssp. *lutescens* Pucheran, 1855

99PM061 ♀ (PAR) Lago Ypoá (AOC/YED)
08 MAY 1999

THRAUPIDAE

(27 species)

Hooded Tanager

Nemosia pileata (Boddaert, 1783) (4)

ssp. *caerulea* (Wied, 1831)

CE004002 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

Wing: 72.3 mm; Bill length: 11.3 mm;

Tail: 51 mm; Tarsus: 20.9 mm.

Total length: 136 mm; Wing span: 235
mm; Mass: 15.2 g.

CE004733 ♂ (MIS) Corate-i, Ayolas (AOC/
YED) 16 FEB 1989

Wing: 74.2 mm; Bill length: 10.2 mm;

Tail: 48 mm; Tarsus: 20 mm.

Total length: 149 mm; Wing span: 232
mm; Mass: 18.5 g.

CE004803 ♂ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 14 FEB 1989

Wing: 76.3mm; Bill length: 11.6 mm;

Tail: 55mm; Tarsus: 20 mm.

Total length: 142 mm; Wing span: 231
mm; Mass: 17 g.

99PM076 ♀ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 11 MAY 1999

Wing: 69.5 mm; Bill length: 12.6 mm;

Tail: 49 mm; Tarsus: 15 mm.

N. p. paraguayensis Chubb, 1910 was proposed for Paraguayan birds based on claimed larger size than nominate populations. However Naumburg (1930) described this as an “exceedingly poor race” and Zimmer (1947) could find

no obvious differences between Paraguayan birds and those of southern Brazil assigned to *N. p. caerulea* (Wied, 1831). Measurements are provided for the specimens examined, which agree with those provided by Chubb (1910).

Saffron Finch

Sicalis flaveola (Linnaeus, 1766) (22)

ssp. *pelzelni* Sclater, 1872

EBD8045A ♂ (BOQ) Fortín Teniente Picco
(JRC/YED) 15 AUG 1982

EBD8689A ♀ (BOQ) Fortín Teniente Picco
(JRC/YED) 15 AUG 1982

CE003873 ♂j (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988

CE004065 ♂ (CEN) San Lorenzo (JRC/
YED) 20 OCT 1987

CE004990 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 12 FEB 1989

CE007894 ♂ (ÑEE) 5 km E Pilar (AOC/
YED) 23 AUG 1991 No tail

CE008878 ♂ (ÑEE) Arroyo Dos Hermanas
y Ruta Nacional IV (AOC/YED) 16 OCT
1993

93NP0439 ♀ (ÑEE) Isla Hú (AOC/YED)
06 NOV 1993

95JP040 ♂ (ÑEE) Mburicá (AOC/YED) 07
JUL 1995

CE007411 ♂ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

CE007557 ♀ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

CE007606 ♀ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992

CE007898 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

CE008226 ♀ (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

CE008228 ♂j (ÑEE) Paso Lengá, Tres Bocas
(AOC/YED) 19 JAN 1992

CE009181 ♂ (ÑEE) Puerto Naranjito (AOC/
YED) 13 JAN 1994

CE008153 ♀ (ÑEE) Riacho Ñeembucú
(AOC/YED) 18 JAN 1992

CE008227 ♀ (ÑEE) Riacho Ñeembucú

(AOC/YED) 17 JAN 1992

CE006778 ♀ (PHA) Casco Estancia Guy
(JRC/YED) 23 FEB 1991

CE002866 ♀ (PHA) Pozo Colorado (AOC/
CYED) 27 SEP 1986

CE002922 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

CE002930 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

^{AF}Uniform Finch

Haplospiza unicolor Cabanis, 1851 (1)

CE007747 ♀ (APA) Itabó Itaipú (YED/
YED) 05 AUG 1992

Blue-black Grassquit

Volatinia jacarina (Linnaeus, 1766) (2)

ssp. *jacarina* (Linnaeus, 1766)

CE004022 ♂ (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988

CE006618 ♀ (COR) Caaby Kupe (AOC/
YED) 25 JAN 1995

White-lined Tanager

Tachyphonus rufus (Boddaert, 1783) (3)

EBÑ00035 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 13 JAN
1992

99PM011 ♂ (PAR) Playa Taruma, Lago Ypoá
(AOC/YED) 05 MAY 1999

99PM081 ♀ (PAR) Playa Taruma, Lago
Ypoá (AOC/YED) 09 MAY 1999

Red-crested Finch

Coryphospingus cucullatus (Müller, 1776)
(36)

ssp. *rubescens* (Swainson, 1825)

CE007743 ♂ (APA) Itabó Itaipú (YED/
YED) 05 AUG 1992

ssp. *fargoii* Brodtkorb, 1938

CE003937 ♂j (BOQ) Fortín Toledo (YED/
YED) 25 FEB 1988

CE004012 ♂ (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988

CE004017 ♂j (BOQ) Fortín Toledo (YED/
YED) 23 FEB 1988

YED) 23 FEB 1988

CE003257 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987

CE003312 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

CE003316 ♀ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 09 JAN 1987

CE006668 ♀ (COR) La Escondida, 7 km
NE Eusebio Ayala (YED/YED) 29 JAN
1991

CE006725 ♂ (COR) Pasaje Pirayui, 10
km E de Eusebio Ayala (AOC/YED) 26
JAN 1991

CE006730 ♀ (COR) Pasaje Pirayui, 10
km E de Eusebio Ayala (AOC/YED) 26
JAN 1991

CE004679 ♂ (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 21 JAN 1989

CE004792 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 13 FEB 1989

CE004989 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 13 FEB 1989
Missing upper mandible

96NP0101 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (YED/YED) 02 NOV
1996

EBÑ00025 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (YED/YED) 11 JAN
1992

93AP0209 ♂ (ÑEE) Curupayty (AOC/
YED) 05 AUG 1993

93AP0217 ♀ (ÑEE) Curupayty (AOC/
YED) 05 AUG 1993

CE008647 ♂ (ÑEE) Estancia Paso Pucú,
Curupayty (YED/YED) 05 AUG 1993

94FP032 ♀ (ÑEE) Granja San Ysidoro,
Villa Paso (YED/YED) 07 FEB 1994

96NP0149 ♀ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996

EBÑ00044 ♂ (ÑEE) Isla Hú, 12 km NE Pilar
(AOC/YED) 13 JAN 1992

EBÑ00042 ♂ (ÑEE) Orilla N Riacho Ñeem-
bucú (AOC/YED) 17 JAN 1992

CE007556 ♂ (ÑEE) Paso Lengá, Tres Bo-
cas (YED/YED) 15 SEP 1992

- EBÑ00041 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 19 JAN 1992
 EBÑ00043 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 11 JAN 1992
 EBÑ00045 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992
 EBÑ00132 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 21 JAN 1992
 93AP079 ♀ (ÑEE) Puerto Arara'a, Rio Paraguay (YED/YED) 18 MAY 1993
 93AP008 ♀ (ÑEE) Puerto Naranjito (AOC/YED) 11 MAR 1993
 93AP011 ♀ (ÑEE) Puerto Naranjito (AOC/YED) 11 MAR 1993
 CE000970 ♂ (PAR) Cordillera de los Altos (YED/YED) 08 AUG 1985
 CE005298 ♂ (PAR) Puesto Cerro Lima, Lago Ypoá (AOC/YED) 27 AUG 1986
 99PM052 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 08 MAY 1999
 99PM070 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 09 MAY 1999
 CE003997 ♀ (PAR) Quiindy (No coll.) 31 AUG 1986
 CE006495 ♂ (PHA) Estancia Guy (JRC/YED) 09 DEC 1990

White-bellied Seedeater

- Sporophila leucoptera* (Vieillot, 1817) (2)
 ssp. *leucoptera* (Vieillot, 1817)
 CE004791 ♀ (MIS) Estancia San Vicente, Santiago (AOC/YED) 12 FEB 1989
 99PM074 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 09 MAY 1999

Pearly-breasted Seedeater

- Sporophila pileata* (Sclater, 1864) (1)
 CE004802 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 13 FEB 1989

Tawny-bellied Seedeater

- Sporophila hypoxantha* Cabanis, 1851 (3)
 CE006684 ♂ (COR) NE Eusebio Ayala (JRC/YED) 29 JAN 1991

- CE008189 ♀ (ÑEE) Riacho Cai Mbocá, Mburicá (JRC/YED) 16 JAN 1992
 CE007864 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

Chestnut-bellied Seedfinch

- Sporophila angolensis* (Linnaeus, 1766) (2)
 ssp. *angolensis* (Linnaeus, 1766)
 CE003189 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 07 JAN 1987 Missing upper mandible
 89NP0394 ♀ (PAR) Mbocayá, Sapucaí (JRC/YED) 15 NOV 1989

We provide the field number of 89NP0394 of the female specimen as the two sides of specimen label shows different numbers, respectively CE005497 and CE005526.

Double-collared Seedeater

- Sporophila caeruleascens* (Vieillot, 1817) (9)
 ssp. *caeruleascens* (Vieillot, 1817)
 CE006802 ♂i (APA) Itabó Itaipú (YED/YED) 15 MAY 1991
 CE007749 ♀ (APA) Itabó Itaipú (YED/YED) 15 AUG 1992
 CE007767 ♂ (APA) Itabó Itaipú (YED/YED) 15 AUG 1992
 CE004781 ♀ (CAN) Puente Kyhá (AOC/YED) 14 JAN 1989
 CE004814 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 12 FEB 1989
 93AP009 ♀ (ÑEE) Puerto Naranjito (AOC/YED) 11 APR 1993
 99PM056 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 08 MAY 1999
 99PM057 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 08 MAY 1999
 CE002874 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

Immature male specimen CE006802 shows an incomplete breastband and extensive grey on the sides of the upper breast.

Rusty-collared Seedeater*Sporophila collaris* (Boddaert, 1783) (1)ssp. *melanocephala* (Vieillot, 1817)CE006772 ♀ (PHA) Casco Estancia Guy
(JRC/YED) 25 FEB 1991**^{CH}Many-coloured Chaco Finch***Saltatricula multicolor* (Burmeister, 1860) (3)CE005340 Un (BOQ) 13 km SE General
Eugenio Garay (JRC/YED) 11 SEP 1989CE005314 ♀ (BOQ) Estancia Coë Pyahú
(JRC/YED) 11 SEP 1989CE004016 ♂ (BOQ) Fortín Toledo (YED/
YED) 24 FEB 1988 No tail**^{CE}Black-throated Saltator***Saltatricula atricollis* (Vieillot, 1817) (1)91SP0182 ♂ (CON) 6 km N San Alfredo
(JRC/YED) 05 SEP 1991**Greyish Saltator***Saltator coerulescens* Vieillot, 1817 (32)ssp. *coerulescens* Vieillot, 1817CE004045 ♀ (CEN) Ñu Guazú, Asunción
(YED/YED) 23 OCT 1987CE004064 ♂ (CEN) Ñu Guazú, Asunción
(YED/YED) 23 OCT 1987CE005219 ♀j (CEN) Ñu Guazú, Asunción
(YED/YED) 04 AUG 1989CE005241 ♂ (CEN) Ñu Guazú, Asunción
(YED/YED) 06 AUG 1989CE003206 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 08 JAN 1987CE003207 ♂ (COR) Acosta Ñu, Compañía
Costa (AOC/YED) 06 JAN 1987CE006739 ♂j (COR) La Escondida, 7 km
NE Eusebio Ayala (AOC/YED) 28 JAN
1991CE006740 ♀j (COR) La Escondida, 7 km
NE Eusebio Ayala (AOC/YED) 28 JAN
1991CE004680 ♂ (MIS) Estancia Guarepyá,
Santiago (AOC/YED) 19 JAN 1989CE004789 ♂ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 14 FEB 1989CE007896 ♀j (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992EBÑ00012 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
199297AP0274 Un (ÑEE) Boquerón (No coll.)
12 APR 1995CE008705 ♂ (ÑEE) Estancia Paso Pucú,
Curupaty (YED/YED) 05 AUG 1993CE008706 ♀ (ÑEE) Estancia Paso Pucú,
Curupaty (AOC/YED) 05 AUG 1993CE009011 ♂ (ÑEE) Estancia Paso Pucú,
Curupaty (AOC/YED) 05 AUG 1993CE008893 ♀j (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 10 APR 1993CE009013 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 04 SEP 199397FP0225 ♂j (ÑEE) Estero Cambá, Tacu-
aras (Col. AOC) 14 FEB 199796NP0115 ♀ (ÑEE) Humaitá (AOC/YED)
05 NOV 199696NP0117 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 199696NP0120 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 199696NP0141 ♂ (ÑEE) Humaitá (AOC/YED)
05 NOV 1996EBÑ00001 ♀j (ÑEE) Orilla N Riacho
Ñeembucú (AOC/YED) 18 JAN 1992CE007858 ♀ (ÑEE) Paso Lengá, Tres Bo-
cas (AOC/YED) 20 JAN 1992CE007926 ♀ (ÑEE) Paso Lengá, Tres Bo-
cas (YED/YED) 15 SEP 1992CE007849 ♂ (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 14 JAN 1992CE008041 ♂j (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 19 JAN 1992CE005795 ♂ (PAR) Laguna Lugo 7 km S
Paraguarí (YED/YED) 22 OCT 1987CE003215 Un (PHA) 20 km N Villa Hayes
(JRC/YED) 06 JAN 1987CE002846 ♀ (PHA) Pozo Colorado (AOC/
YED) 27 SEP 1986

CE002847 ♀ (PHA) Pozo Colorado (AOC/

YED) 27 SEP 1986

Green-winged Saltator*Saltator similis* Lafresnaye & d'Orbigny, 1837
(7)ssp. *similis* Lafresnaye & d'Orbigny, 183796NP0103 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 02 NOV
1996CE007285 ♀ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992CE007870 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992CE008042 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 11 JAN
1992EBÑ00027 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (YED/YED) 11 JAN
1992EBÑ00028 Un (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (YED/YED) 11 JAN
1992CE007905 ♀ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992**Great Pampa-Finch***Embernagra platensis* (Gmelin, 1789) (8)ssp. *platensis* (Gmelin, 1789)CE004850 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 12 FEB 198993SP0323 ♂ (ÑEE) Estancia San Antonio,
Tacuaras (AOC/YED) 04 OCT 1993CE009184 Un (ÑEE) Puerto Naranjito
(AOC/YED) 13 JAN 1985CE007888 ♂j (ÑEE) Riacho Cai Mbocá,
Mburicá (AOC/YED) 16 JAN 1992CE008172 ♀ (ÑEE) Riacho Cai Mbocá,
Mburicá (JRC/YED) 16 JAN 1992CE007891 ♂ (ÑEE) Riacho Ñeembucú, Pilar
(AOC/YED) 17 JAN 199297FP0220 ♀ (ÑEE) Tacuaras (Col. AOC)
27 FEB 1997

CE005446 ♂ (PAR) Mbocayá, Sapucaí (No

coll.) 15 NOV 1989

Wedge-tailed Grass-Finch*Emberizoides herbicola* (Vieillot, 1817) (2)ssp. *herbicola* (Vieillot, 1817)EBÑ00007 ♀j (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (JRC/YED) 11 JAN
1992CE003446 ♂ (PAR) Puesto Cerro Lima,
Lago Ypoá (JRC/YED) 27 AUG 1986Juvenile specimen EBÑ00007 shows a strong
yellow tinge to the breast and throat and dull
grey-brown base coloration on the upperparts.
Contreras & Contreras (1992) mention this lo-
cality and these dates (11 to 23 January 1992)
for observations of *E. ypiranganus* jointly with
this species.**Orange-headed Tanager***Thlypopsis sordida* (Lafresnaye & d'Orbigny,
1837) (5)ssp. *sordida* (Lafresnaye & d'Orbigny, 1837)CE004787 ♀ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 13 FEB 1989CE004804 ♂ (MIS) Estancia San Vicente,
Santiago (AOC/YED) 14 FEB 1989CE008622 ♀ (ÑEE) Estancia Paso Pucú,
Curupaty (AOC/YED) 06 AUG 1993CE010485 ♂ (ÑEE) Isla Hú (AOC/YED)
15 OCT 1995CE007919 ♀ (ÑEE) Paso Lengá, Tres Bocas
(YED/YED) 15 SEP 1992**Chestnut-headed Tanager***Thlypopsis pyrrhocoma* Burns et al. 2016 (1)99PM050 ♀ (PAR) Lago Ypoá (AOC/YED)
08 MAY 1999**^{CH}Black-capped Warbling-Finch***Microspingus melanoleucus* (Lafresnaye &
d'Orbigny, 1837) (7)CE008233 ♂ (ÑEE) Arroyo Montuoso y
Ruta Nacional IV (AOC/YED) 13 JAN
1992

CE008613 ♂ (ÑEE) Arroyo Montuoso y

Ruta Nacional IV (AOC/YED) 15 SEP 1993

CE008643 ♀ (ÑEE) Curupayty (AOC/YED) 04 AUG 1993

CE008703 ♂ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE008162 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 22 JAN 1992

CE008126 ♀ (ÑEE) Riacho Ñeembucú (AOC/YED) 18 JAN 1992

CE006321 ♂ (PHA) Estancia Guy (JRC/YED) 25 FEB 1991

Long-tailed Reed Finch

Donacospiza albifrons (Vieillot, 1817) (1)

99PM090 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 12 MAY 1999

Red-crested Cardinal

Paroaria coronata (Miller, 1776) (1)

97FP0211 ♀ (ÑEE) Barrio General Díaz, Pilar (Col. AOC) 25 FEB 1997

Yellow-billed Cardinal

Paroaria capitata (Lafresnaye & d'Orbigny, 1837) (3)

CE008916 ♀ (ÑEE) Puerto Arara'a, Rio Paraguay (JRC/YED) 18 APR 1993

CE007558 ♀ (ÑEE) Paso Lengá, Tres Bocas (YED/YED) 15 SEP 1992

99PM055 ♀j (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 08 MAY 1999

Magpie Tanager

Cissopis leverianus (Gmelin, 1788) (4)

ssp. major (Cabanis, 1851)

CE004006 ♀ (CAN) 17 km SE Ygatimí (JRC/YED) 17 FEB 1988

CE004007 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 17 FEB 1988

CE004692 ♂ (CAN) Puente Kyhá, F Caballero d'Álvarez (AOC/YED) 15 JAN 1989

CE004693 ♀ (CAN) Puente Kyhá, F Caballero d'Álvarez (AOC/YED) 16 JAN 1989

*Fawn-breasted Tanager

Pipraeidea melanonota (Vieillot, 1819) (1)

ssp. melanonota (Vieillot, 1819)

EBÑ00203 ♂ (ÑEE) Estancia Paso Pucú, Curupayty (YED/YED) 05 AUG 1993

This is the specimen referred to in Contreras & Contreras (1993).

Sayaca Tanager

Thraupis sayaca (Linnaeus, 1766) (1)

ssp. sayaca (Linnaeus, 1766)

EBÑ00023 ♂ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

EMBERIZIDAE

(3 species)

Grassland Sparrow

Ammodramus humeralis (Bosc, 1792) (1)

ssp. xanthornus Gould, 1839

99PM065 Un (PAR) Lago Ypoá (AOC/YED) 08 MAY 1999

Saffron-billed Sparrow

Arremon flavirostris Swainson, 1838 (8)

ssp. polionotus (Bonaparte, 1850).

CE006784 ♂ (APA) Itabó Itaipú (Andres Colmán/YED) 15 MAY 1991

CE007559 ♂ (APA) Vivero Forestal Itaipú, Hernandárias (YED/YED) 29 MAY 1992

EBÑ00004 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

EBÑ00024 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN 1992

CE008612 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 15 SEP 1993

97MP0267 ♂ (ÑEE) Boquerón (Col. AOC) 17 MAR 1997

CE008735 ♂ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

CE007585 ♂ (ÑEE) Riacho Cai Mbocá, 5

km SW Mburicá (AOC/YED) 14 JAN 1992

Three specimens from Ñeembucú (97MP0267, CE008612 and EBÑ00004) show a distinct olive tinge to the mantle and a yellowish-brown tinge to the underparts. Buainain et al. (2016) attributed this variation to females and/or immatures.

Rufous-collared Sparrow

Zonotrichia capensis (Müller, 1776) (7)

ssp. *subtorquata* Swainson, 1837

CE008645 ♂ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 04 AUG 1993

CE008933 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

96NP0125 ♂ (ÑEE) Humaitá (AOC/YED) 05 NOV 1996

93AP007 ♂ (ÑEE) Puerto Naranjito (JRC/YED) 11 APR 1993

CE005307 ♂ (PAR) Mbocayá, Sapucaí (JRC/YED) 15 NOV 1989

CE002576 ♂ (PAR) Quiindy (AOC/YED) 28 AUG 1986

CE002836 ♀ (PHA) Pozo Colorado (AOC/YED) 28 SEP 1986

CARDINALIDAE

(1 species)

^{AF}Blackish-blue Seedeater

Amaurospiza moesta (Hartlaub, 1853) (1)

CE006775 ♂ (APA) Tatí Yupí (Andrés Colmán/YED) 25 APR 1991

PARULIDAE

(4 species)

Masked Yellowthroat

Geothlypis aequinoctialis (Gmelin, 1789) (9)

ssp. *velata* (Vieillot, 1809)

CE006610 ♀ (APA) Itabó Itaipú (YED/YED) 15 MAY 1991

CE004068 ♀ (CEN) Ñu Guazú, Asunción (YED/YED) 20 OCT 1987

CE006713 ♀ (COR) Parque Nacional Vapor Cué (AOC/YED) 25 JAN 1991

CE006676 ♂ (COR) Parque Nacional Vapor Cué (AOC/YED) 25 JAN 1991

CE004706 ♀ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 20 JAN 1989

CE008806 ♀ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

99PM016 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM017 ♀ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 05 MAY 1999

99PM044 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 07 MAY 1999

Tropical Parula

Setophaga pitiayumi (Vieillot, 1817) (2)

ssp. *pitiayumi* (Vieillot, 1817)

97MP0266 ♀ (ÑEE) Boquerón (Col. AOC) 17 MAR 1997

CE008842 ♂ (ÑEE) Estancia San Antonio, Tacuaras (AOC/YED) 09 APR 1993

White-browed Warbler

Myiothlypis leucoblephara (Vieillot, 1817) (7)

ssp. *leucoblephara* (Vieillot, 1817)

CE006805 ♂ (APA) Itabó Itaipú (YED/YED) 15 MAY 1991

CE007742 ♀ (APA) Itabó Itaipú (YED/YED) 04 AUG 1992

CE007746 ♂ (APA) Itabó Itaipú (YED/YED) 05 AUG 1992

CE004927 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 15 FEB 1989

CE008656 ♂ (ÑEE) Curupayty (AOC/YED) 05 AUG 1993

CE009188 ♂ (ÑEE) Granja San Ysidoro, Villa Paso (JRC/Romúlo Ribón) 08 FEB 1994

CE009193 ♀ (ÑEE) Granja San Ysidoro, Villa Paso (JRC/YED) 08 FEB 1994

*Golden-crowned Warbler

Basileuterus culicivorus (Deppe, 1830) (13)

ssp. *azarae* Zimmer, 1949

CE007760 ♂ (APA) Reserva Itabó Itaipú (YED/YED) 05 AUG 1992

- CE007769 ♂ (APA) Reserva Itabó Itaipú (YED/YED) 06 AUG 1992
 CE007575 ♂ (APA) Vivero Forestal Itaipú, Hernandárias (YED/YED) 29 MAY 1992
 CE004039 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 16 FEB 1988
 CE004049 ♂ (CAN) 17 km SE Ygatimí (JRC/YED) 17 FEB 1988
 CE004794 ♀ (CAN) Puente Kyhá (AOC/YED) 13 JAN 1989
 CE003297 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 08 JAN 1987
 CE003304 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 09 JAN 1987
 CE003305 ♂ (COR) Acosta Ñu, Compañía Costa (AOC/YED) 08 JAN 1987
 CE008711 ♂ (ÑEE) Curupaty (AOC/YED) 04 AUG 1993
 96NP0189 ♀ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 26 NOV 1996
 CE008623 ♂ (ÑEE) Estancia Paso Pucú, Curupaty (AOC/YED) 06 AUG 1993
 CE008059 ♂ (ÑEE) Riacho Cai Mbocá, Mburicá (AOC/YED) 14 JAN 1992

ICTERIDAE

(13 species)

White-browed Meadowlark

- Leistes superciliaris* (Bonaparte, 1850) (3)
 CE007872 ♂ (CON) Estancia Garay Cué (JRC/YED) 04 SEP 1991
 CE007903 ♀ (CON) Estancia Garay Cué (JRC/YED) 05 SEP 1991
 CE004828 ♂ (MIS) Corate-i, Ayolas (AOC/YED) 16 FEB 1989

Solitary Black Cacique

- Cacicus solitarius* (Vieillot, 1816) (1)
 CE008725 ♀ (ÑEE) Estancia Paso Pucú, Curupaty (AOC/YED) no date

Golden-winged Cacique

- Cacicus chrysopterus* (Vigors, 1825) (4)
 EBÑ00018 Un (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 11 JAN

1992

- CE008633 ♂ (ÑEE) Estancia Paso Pucú, Curupaty (AOC/YED) 05 AUG 1993
 99PM084 ♀ (PAR) Lago Ypoá (AOC/YED) 10 MAY 1999
 CE005828 ♀ (PAR) Puesto Taruma Fondo, Lago Ypoá (JRC/YED) 28 AUG 1986

Red-rumped Cacique

- Cacicus haemorrhous* (Linnaeus, 1766) (1)
 ssp. *affinis* Swainson, 1834
 99PM045 ♂ (PAR) Lago Ypoá (AOC/YED) 07 MAY 1999

Orange-backed Troupial

- Icterus croconotus* (Wagler, 1829) (1)
 ssp. *stictifrons* Todd, 1924
 CE005311 ♀ (BOQ) Estancia Coë Pyahú (JRC/YED) 10 SEP 1989

Variable Oriole

- Icterus pyrrhopterus* (Vieillot, 1819) (9)
 ssp. *pyrrhopterus* (Vieillot, 1819)
 CE004811 ♂ (MIS) Estancia San Vicente, Santiago (AOC/YED) 13 FEB 1989
 96JP008 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 14 JUN 1996
 96JP045 ♀ (ÑEE) Arroyo Montuoso y Ruta Nacional IV (AOC/YED) 14 JUN 1996
 CE007917 ♂ (ÑEE) Paso Lengá, Tres Bocas (YED/YED) 15 SEP 1992
 CE007920 ♀ (ÑEE) Paso Lengá, Tres Bocas (YED/YED) 15 SEP 1992
 CE008050 ♂ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 15 JAN 1992
 CE005336 ♂ (PAR) Puesto Taruma Fondo, Lago Ypoá (AOC/YED) 28 AUG 1986
 CE006672 ♂ (PHA) Casco Estancia Guy (JRC/YED) 10 DEC 1990
 CE004762 ♀ (PHA) Ruta Transchaco Km 126 (Carmen Vitale/YED) 15 JUL 1988

Screaming Cowbird

- Molothrus rufoaxillaris* Cassin, 1866 (4)
 CE004726 ♀ (MIS) Estancia Guarepyá

Santiago (No coll.) 20 JAN 1989

CE06669 ♀ (PHA) Casco Estancia Guy (JRC/YED) 08 DEC 1990

CE006670♂ (PHA) Puesto Santa Cristina, Estancia Villa Rey (JRC/YED) 09 DEC 1990

CE006671♂ (PHA) Puesto Santa Cristina, Estancia Villa Rey (JRC/YED) 09 DEC 1990

Shiny Cowbird

Molothrus bonariensis (Gmelin, 1789) (4)

ssp. *bonariensis* (Gmelin, 1789)

CE006733 ♂ (COR) Parque Nacional Vapor Cué (AOC/YED) 24 JAN 1991

CE006736 ♂ (COR) Parque Nacional Vapor Cué (AOC/YED) 24 JAN 1991

CE004727 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 21 JAN 1989

CE008093 ♀ (ÑEE) Yataty 5 km E Pilar (YED/YED) 23 AUG 1991

None of the male birds show the shiny black plumage of a full adult.

Scarlet-headed Blackbird

Amblyramphus holosericeus (Scopoli, 1786) (1)

99PM075 ♂ (PAR) Lago Ypoá (AOC/YED) 09 MAY 1999

Chopi Blackbird

Gnorimopsar chopi (Vieillot, 1819) (1)

ssp. *chopi* (Vieillot, 1819)

99PM046 ♂ (PAR) Playa Taruma, Lago Ypoá (AOC/YED) 07 MAY 1999

Greyish Baywing

Agelaioides badius (Vieillot, 1819) (3)

ssp. *badius* (Vieillot, 1819)

CE006711 ♂j (COR) Parque Nacional Vapor Cué (AOC/YED) 25 JAN 1991

CE008211 ♀ (ÑEE) Paso Lengá, Tres Bocas (AOC/YED) 10 JAN 1992

CE006406 Un (PHA) Estancia Guy (JRC/YED) 08 DEC 1990

Unicoloured Blackbird

Agelasticus cyanopus (Vieillot, 1819) (3)

ssp. *cyanopus* (Vieillot, 1819)

CE004655 ♀ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 21 JAN 1989 No bill.

CE004770 ♂ (MIS) Estancia Guarepyá, Santiago (AOC/YED) 20 JAN 1989

CE008785 ♀ (ÑEE) Estancia Paso Pucú, Curupayty (AOC/YED) 05 AUG 1993

Yellow-rumped Marshbird

Pseudoleistes guirahuro (Vieillot, 1819) (1)

96NP204 ♂ (ÑEE) Estero Cambá, Tacuaras (Col. AOC) 26 NOV 1996

Discussion

The collection of ornithological specimens in Paraguay has virtually halted since the late 1990s when the last specimens in the IBIS collection were taken. Only periodic collecting has taken place since then, mostly by foreign academics on short collecting trips and with the majority of specimens being translocated to foreign museums. That this should occur is perhaps not surprising given the lack of resources available for Paraguayan museum collections and the repeated history of lost collections, however this lack of comparative material seriously hampers the development of ornithology as a science in Paraguay. Whilst entomological, mammalogical and herpetological collecting have all seen a revival over the last few decades, ornithological collection has been virtually non-existent.

Currently almost all ornithological data in Paraguay is gleaned from field observations by a very small number of observers, these observations being more often than not undocumented, and there exists no official process for the acceptance or rejecting of records. Besides blurring the lines between ornithology the scientific pursuit and birdwatching the hobby, this approach also greatly limits the type of data than can be collected to distributional lists and dates for migrants, though this too is seriously hampered by the lack of active and experi-

enced field observers and data bias towards a few well-watched sites. Data on geographical and morphological variation, moult patterns, migration routes, breeding, diet, malformations and ecological requirements are almost non-existent or collected in an unsystematic, informal way such that they rarely find their way into the scientific literature. Perversely the value of scientific collections in providing such data is poorly understood, and this has no doubt contributed to the under-valuation and loss of important collections in the past.

Though the importance of ornithological collections for understanding the ecology of birds and thus for improving our ability to effectively conserve them is well documented (Remsen, 1995; Collar, 2000), there remains a reluctance to collect ornithological specimens and there persists the incorrect notion that all the data that we “need” can be gleaned from casual field observations. Until this attitude changes Paraguayan ornithology will continue to lag behind that of neighbouring countries which have long since embraced this concept.

In terms of the number of specimens the IBIS collection qualifies as one of the most important national bird collections. More importantly it is the biggest single collection of specimens from Ñeembucú, one of the most poorly known Paraguayan departments from an ornithological perspective. The specimens reported here include 18 new departmental records for Ñeembucú and one for Cordillera that were not mapped by Guyra Paraguay (2005). Thirteen species are represented by respectable comparative series of > 20 specimens (*Lepidocolaptes angustirostris* 57, *Coryphospingus cucullatus* 36, *Saltator coerulescens* 32, *Furnarius rufus* 35, *Hemitriccus margaritaceiventer* 27, *Phacellodomus ruber* 26, *Synallaxis frontalis* 25, *Myiarchus tyrannulus* 23, *Colaptes melanochloros* 22, *Sicalis flaveola* 22, *Tyrannus melancholicus* 22, *Suiriri suiriri* 20, *Turdus amaurochalinus* 20). Additionally, there is a strong representation of Picidae with 15 species in the collection.

Though there is no doubting the value of this collection, its immediate future remains undecided. The condition of some specimens is poor, but the responsibility of the new curators to carefully conserve the collection for future generations must be taken seriously if Paraguayan ornithology is not to lose yet another valuable source of data.

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Appendix

Appendix 1: Gazetteer of localities mentioned in the text. Coordinates of localities should be considered approximate, especially where locality descriptions are vague. No coordinates were provided with the collection data.

ALTO PARANÁ (APA)

- Itabó Itaipú (S 25°04' W 54°40')
- Tatí Yupí (S 25°21' W 54°36')
- Vivero Forestal Itaipú, Hernandárias (S 25°26' W 54°37')

BOQUERÓN (BOQ)

- 13 km SE General Eugenio Garay (S 20°36' W 62°02')
- Estancia Coë Pyahú (S 20°38' W 61°57')
- Fortín Teniente Picco (S 19°36' W 59°46')
- Fortín Teniente Rivarola (S 22°17' W 60°28')
- Fortín Toledo (S 22°19' W 60°21')
- Teniente Montanía (S 22°04' W 59°57')

CANINDEYÚ (CAN)

- 17 km SE Ygatimí (S 24°12' W 55°31')
- Puente Kyhá (S 24°05' W 54°30')
- Puente Kyhá, F Caballero d'Álvarez (S 24°05' W 53°34')
- Santa Maria, 12 km N Puente Kyhá (S 23°58' W 54°29')

CENTRAL (CEN)

- Asunción (S 25°15' W 57°34')
- Ñu Guazú, Asunción (S 25°16' W 57°35')
- San Lorenzo (S 25°20' W 57°31')

CONCEPCIÓN (CON)

- 6 km N San Alfredo (S 22°49' W 57°24')
- Estancia Garay Cué (S 22°43' W 57°21')
- Estancia San Alfredo (S 23°0' W 57°29')
- Paso Mbutu (S 23°06' W 56°52')

CORDILLERA (COR)

- 5 km E Eusebio Ayala (S 25°22' W 56°54')
- 9 km NE Eusebio Ayala (S 25°19' W

56°55')

- 10 km NE Eusebio Ayala (S 25°19' W 56°54')
- Acosta Ñu, Compañía Costa (S 25°18' W 56°55')
- Caacupé (S 25°23' W 57°08')
- Compañía Puruiú?, 12 km NE Eusebio Ayala (S 25°18' W 56°53')
- Eusebio Ayala (S 25°22' W 56°57')
- La Escondida, 7 km NE Eusebio Ayala (S 25°20' W 56°55')
- Mbocayáty del Yhaguy (S 25°20' W 56°43')
- Pasaje Pirayui, 10 km E de Eusebio Ayala (S 25°21' W 56°51')
- Parque Nacional Vapor Cué (S 25°12' W 56°47')

MISIONES (MIS)

- Ayolas (S 27°22' W 56°51')
- Corate-i, Ayolas (S 27°24' W 56°58')
- Estancia Guarepyá, Santiago, Estancia San Vicente, Santiago approx. (S 27°08' W 56°46')
- Santiago (S 27°07' W 56°46')

ÑEEMBUCÚ (ÑEE)

- 4 km NW boca Arroyo Montuoso (not located)
- 16 km E Pilar (S 26°51' W 58°9')
- 5 km NE Pilar (S 26°49' W 58°16')
- Arroyo Dos Hermanas y Ruta Nacional IV (S 26°52' W 57°49')
- Arroyo Hondo (S 27°01' W 58°23')
- Arroyo Montuoso y Ruta Nacional IV (S 26°52' W 57°59')
- Barrio General Díaz, Pilar (S 26°51' W 58°18')

- Barrió 12 de Octubre, Pilar (S 26°52' W 58°23')
 - Boca del Tebicuary (S 26°36' W 58°11')
 - Boquerón (S 26°58' W 58°22')
 - Camba Cuá, Isla Umbú (S 26°58' W 58°16')
 - Colonia Mburicá (S 26°40' W 58°11')
 - Compañía Teniente Sanchez, Villazón (S 27°12' W 57°58')
 - Curupayty (S 27°07' W 58°37')
 - Estación Biológica Ñeembucú (S 26°51' W 58°18')
 - Estancia San Antonio, Tacuaras (S 26°47' W 57°55')
 - Estancia Paso Pucú, Curupayty (not located)
 - Estero Cambá, Tacuaras (S 26°49' W 57°59')
 - Gavor Cue (not located)
 - Granja San Ysidoro, Villa Paso (S 26°51' W 57°17')
 - Humaitá (S 27°04' W 58°30')
 - 14 km NE Pilar (S 26°45' W 58°13')
 - Isla Hú, 9 km NE Pilar (S 26°47' W 58°14')
 - Isla Hú, 12 km NE Pilar (S 26°46' W 58°13')
 - Isla Hú, 17 km NE Pilar / 17 km NE Pilar / Isla Hú, 17 km N Pilar (S 26°42' W 58°11')
 - Isla Hú, 19 km NE Pilar/19 km NE Pilar (S 26°43' W 58°11')
 - Isla Hú, Arroyo Montuoso (S 26°39' W 58°11')
 - Isla Jara Cue, Playa Ybycuí, Rio Paraguay frente al Rio Bermejo (S 26°52' W 58°22')
 - Naranjito (S 26°57' W 58°27')
 - Isla Umbú (S 27°00' W 58°18')
 - Orilla N Riacho Ñeembucú (S 26°50' W 58°18')
 - Paraje Yacaré, Arroyo Yacaré y Ruta Nacional IV (S 26°34' W 58°07')
 - Paso Lengá, Tres Bocas (S 26°52' W 58°17')
 - Pilar (S 26°52' W 58°18')
 - Puerto Arara'a, Rio Paraguay (S 26°52' W 58°17')
 - Puerto Naranjito (S 26°57' W 58°27')
 - Riacho Cai Mbocá, Mburicá (S 26°41' W 58°14')
 - Riacho Cai Mbocá, 5 km SW Mburicá (S 26°44' W 58°13')
 - Riacho Ñeembucú (S 26°51' W 58°18')
 - Ruta Nacional IV km 2 (S 26°50' W 58°16')
 - San Roque Medina (S 27°07' W 57°13')
 - Tacuaras (S 26°49' W 58°06')
 - Villalbín (S 27°09' W 57°55')
 - Yatayty, 3ª Compañía (5km E Pilar) (S 27°14' W 57°39')
 - Zanjita, Compañía Apipé, N Villalbín (S 26°03' W 57°55')
- PARAGUARÍ (PAR)**
- 8 km N of Paraguari (S 25°33' W 57°08')
 - Cordillera de los Altos (S 25°15' W 57°15')
 - Costa E Lago Ypoá (S 25°54' W 57°24')
 - Lago Ypoá (S 25°55' W 57°25')
 - Laguna Lugo 7 km S Paraguari (S 25°40' W 57°07')
 - Mbocayá, Sapucaí (S 26°32' W 57°25')
 - Mburicá, Sapucaí (S 26°43' W 58°10')
 - Playa Taruma, Lago Ypoá (S 25°56' W 57°56')
 - Puesto Cerro Lima, Lago Ypoá (S 26°01' W 57°24')
 - Puesto Taruma Fondo, Lago Ypoá (S 25°57' W 57°27')

- Quiindy (S 25°58' W 57°13')
- Sapucaí (S 25°40' W 56°57')

PRESIDENTE HAYES (PHA)

- Casco Estancia Guy/ Estancia Guy, 1.5 km S Casco Estancia Guy, 6 km E Casco Estancia Guy, 7 km E Casco Estancia Guy (approx. S 24°40' W 57°40')
- 2 km al E del límite W de Estancia Villa Rey hacia Estancia Guy (S 24°42' W 57°29')
- 10 km al E del límite W de Estancia Villa Rey hacia Estancia Guy (S 24°42' W 57°24')
- 2.5 km N Casco Estancia Villa Rey; 2.5 km SW Casco Estancia Villa Rey; 3 km N Casco Estancia Villa Rey; Puesto Santa Cristina, Estancia Villa Rey; approx. (S 21°41' W 57°14')
- 20 km N Villa Hayes (S 24°55' W 57°34')
- Al W de Puerto Santa Cristina, Estancia Villa Rey (S 24°42' W 57°18')
- Estancia El Quebrachal, Puerto Colón (S 23°11' W 57°38')

- Esquina de Campo María (approx. S 22° 34' W 59°20')
- Isla Piedra Rara, Río Paraguay (not located)
- Puerto Militar (S 23°27' W 57°24')
- Pozo Colorado (S 23°25' W 58°51')
- Riacho Pucu, Río Paraguay (S 25°05' W 57°43')
- Medina 15 E Pilar (S 26°51' W 58°07')
- Riacho Pucu, 20 km W Villa Hayes (S 25°05' W 57°43')
- Río Paraguay, 65 km N de Asunción (S 24°47' W 57°15')
- Ruta Transchaco km 126 (S 22°39' W 59°45')
- Ruta Transchaco km 217 (S 22°54' W 58°27')
- Teniente 1a Irala Fernández (S 22°39' W 59°45')

SAN PEDRO (SPE)

- 6 km E Puerto Ybapobo (S 23°39' W 57°20')

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El Boletín del Museo Nacional de Historia Natural del Paraguay se publica en un volumen por año, dividido en dos números. Los manuscritos recibidos hasta el 1 de abril podrán ser considerados para el cierre de edición de junio (nº 1) y los recibidos hasta el 1 de octubre para el cierre de edición de diciembre (nº 2). Sin embargo, la entrega de un manuscrito dentro de un determinado periodo no garantiza su publicación en la edición inmediata siguiente, dependiendo ésta del tiempo que toma el proceso de revisión al que es sujeto. Los artículos se publicarán online en diferentes fechas a medida que estén completamente diagramados, y el conjunto publicado a lo largo de un semestre constituirá el cuerpo del correspondiente número. En caso de no tener un número completo para la edición de junio, se publicará un volumen de doble número en diciembre.

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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>>.

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CONTENIDO

[Entre corchetes la fecha de publicación online de cada artículo]

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Paul Smith, Karina Atkinson & Yolanda E. Davies. Paraguayan bird specimens in the "Ibis" collection, Pilar, Depto. Ñeembucú. [6.iv.2021] 5–55

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