New distributional information for 25 species in eastern Paraguay

James C. Lowen¹, Juan Mazar Barnett², Mark Pearman³, Rob Clay⁴ and Bernabé López Lanús²

¹ BirdLife International, Wellbrook Court, Girton Road, Cambridge CB3 0NA, UK.
² Asociación Ornitológica del Plata, 25 de Mayo 749 – 2º Piso, 1002 Buenos Aires, Argentina; jmbco@ssdnet.com.ar
³ 58 Prospect Place, London E1 9TJ, UK
⁴ Large Animal Research Group, Department of Zoology, University of Cambridge, Downing Street, Cambridge CB2 3EJ, UK; rc124@hermes.cam.ac.uk

Received on 17 de julho de 1997; accepted on 30 de agosto de 1997

PALAVRAS-CHAVE: conservação, distribuição, novas informações, Paraguai.

Key words: conservation, distribution, new information, Paraguay.

Hayes (1995) divided Paraguay into seven “geographical regions”, primarily based on major vegetation units and geographical features, for the purpose of analyzing bird distribution. We provide the first records for 25 species in one or more of the following geographical regions of eastern Paraguay: Campos Cerrados, Ñeembucú, Central Paraguay and Alto Paraná. The majority of these species are relatively common and widespread in Paraguay (e.g., Hayes 1995), but these records present notable (if not unexpected) range extensions. This new information, with one exception, was obtained during 2,000 hours of ornithological surveys in 1995 (Lowen et al. 1996a, b).

Abbreviations and conventions. We use the following abbreviations throughout: Depto. = Departamento; MN = Monumento Natural; PN = Parque Nacional; RNBM = Reserva Natural del Bosque Mbaracayú, Depto. Canindeyú; RNP = Reserva Natural Privada; RVS = Reserva de Vida Silvestre.

We follow Hayes (1995) in the allocation of sites to geographical regions for all but two localities: PN Caaguazú and PN San Rafael. We include these sites in the Alto Paraná region rather than in Central Paraguay, because both sites show avifaunal characteristics of extreme southeast Paraguay (and adjacent Misiones province, Argentina). Additionally, Hayes' border between the two regions (Hayes 1995: Figure 7, p. 14) follows the watershed between the Rio Paraguay (Central Paraguay) and Rio Paraná (Alto Paraná). Our study area at San Rafael fell within the Rio Paraná drainage system (and thus the Alto Paraná region), whereas the Cordillera de Caaguazú itself forms part of the Rio Paraná watershed (and thus forms the border to the Alto Paraná region).

Most data presented here derives from multi-observer sight or aural records, and is presented as such. The authors and other observers (see Acknowledgments) had extensive prior field experience with all species involved. Moreover, the identification of all but three species concerned (Gray-rumped Swift Chaetura cinereiventris, Mouse-coloured Tyrannulet Phaeoconyx murina, and White-crested Elaenia Elaenia albiceps) is very straightforward. Brief notes on the identification of these species are provided.

We specify any documentation obtained. Tape-recordings have been deposited at the Wildlife Section, British Library National Sound Archive, UK. Photographs have been deposited in the BirdLife International slide library, UK. The single species mist-netted was measured and photographed before release. No specimens were taken. Details of region, department and co-ordinates are given for all localities mentioned (Appendix).

Species accounts. For each species, we state the region to which it is new, followed by the date(s), site(s), and, where relevant, a brief discussion. Unless otherwise specified, all dates refer to 1995.

Plumbeous Ibis Theristicus caerulescens
Central Paraguay: two on 12 August at PN Ypacarai, Depto. Cordillera.
Campos Cerrados: one on 12 November at Estancia Ybu, Depto. Concepción.
Black-collared Hawk Busarellus nigricollis
Alto Paraná: one on 21 August 1992 in open country two km north of RNP Itábó, Depto. Canindeyú.
Black Hawk-eagle Spizaetus tyrannus
Alto Paraná: at RNP Itábó, Depto. Canindeyú, one on 12 August, a pair on 16 October, and one on 17 October. Additionally, two all dark hawk-eagle Spizaetus sp., presumably this species, were seen distantly on the latter date. These records may relate to just a single pair. Madroño N. and Esquivel (1997) provided the first records for Paraguay (from the RNBM, Depto. Canindeyú, in Central Paraguay).
Blackish Rail Pardirallus nigricans
Ñeembucú: single birds seen and heard daily from 3-6 November at Puerto Turi, MN Bosque de Arary, Depto. Itapúa.
Upland Sandpiper Bartramia longicauda
Ñeembucú: one on 29 October and eight on 30 October at RVS Yabeyry, Depto. Misiones; four on 2 November and two on 20 December at Base Aerea, MN Bosque de Arary, Depto. Itapúa.
White-rumped Sandpiper Calidris fuscicollis
Ñeembucú: four on 20 December at Base Aerea, MN Bosque de Arary, Depto. Itapúa.
Piliated Parrot Pionopsittsa pileata
Campos Cerrados: observed frequently (and tape-recorded from 10-12 October at PN Cerro Cordí, Depto. Amambay, including a dawn flight of at least 50 birds on October 10. Pionopsitta pileata may be seasonal at this site, having been unrecorded during previous surveys (see Hayes and Scharf 1995).
Pheasant Cuckoo Dromococcys phasianellus
Ñeembucú: up to three seen and tape-recorded from 29-31 October at RVS Yabeyry, Depto. Misiones; one heard on 31 October at Base Aerea, MN Bosque de Arary, Depto. Itapúa.
Variable Screech-owl Otus atricapillus
Alto Paraná: single birds heard on four dates from 16-24 July at PN Caaguazú, Depto. Caazapá; two heard on 26 July at PN San Rafael, Deptos. Itapúa/Caazapá; at RNP Itábó, Depto. Canindeyú, one heard on 1 August, and up to
seven birds calling (and tape-recorded) on eight dates from 14-23 October 1995. The species is evidently widespread in the Alto Paraná forests: it was presumably overlooked during surveys in the unusually cold winter of 1992 (Brooks et al. 1993).

Striped Owl *Asio clamator*

Ñeembucú: at Puerto Turi, MN Bosque de Arary, Dep. Itapúa; one seen on 4 November, and two seen and tape-recorded on 6 November.

Gray Potoo *Nyctibius griseus*

Ñeembucú: three calling on 30 October and one on 31 October at RVS Yabeybyr, Dep. Misiones; up to three calling from 1-2 November at Base Aerea, MN Bosque de Arary, Dep. Itapúa; and up to three birds calling from 3-6 November at nearby Puerto Turi.

Gray-rumped Swift *Chaetura cinereiventer*

Campos Cerrados: two on 11 October at PN Cerro Corá, Dep. Amambay. *Chaetura cinereiventer* was easily distinguished from Ashy-tailed Swift *C. andrewsi* by its smaller size, more scythe-shaped wings, proportionally longer tail, and more fluttering, bat-like flight. In addition, *C. cinereiventer* (the nominate form occurring in Paraguay) has a restricted, neat square rump patch, contrasting markedly with the long dark tail. The undertail feathers grade from a pale throat (demarcated from the dark “cap”) to almost black undertail coverts. Although first observed in Paraguay in 1977 (R. S. Ridgely in litt. 1994), but not documented until 1992 (Brooks et al. 1995, Hayes 1995), *C. cinereiventer* has now proved to be widespread throughout eastern Paraguay (Lowen et al. 1996b, Madroño N. and Esquivel 1997).

Green-and-nitidous Kingfisher *Chloroceryle inda*

Alto Paraná: a male on 28 July at PN San Rafael, Dep. Caazapá. Itapúa, appears to extend the southern limit of the species' known distribution (see Fry et al. 1992).

Mouse-colored Tyrannulet *Phaeomyias murina*

Ñeembucú: a pair on 31 October and one on 1 November at Base Aerea, MN Bosque de Arary, Dep. Itapúa. Its distinctive chattering call was tape-recorded. *Phaeomyias murina* is a thick-billed tyrannulet with a pale base to the lower mandible. It lacks the prominent crest of Southern Beardless-tyrannulet *Campylostoma obsoletum*, and, unlike that species, does not cock its tail.

Yellow Tyrannulet *Capsiempis flavoeola*

Campos Cerrados: two on 11 October at PN Cerro Corá, Dep. Amambay.

Ñeembucú: two on 4 November at Puerto Turi, MN Bosque de Arary, Dep. Itapúa.

White-crested Elaenia *Elaenia albiceps*

Ñeembucú: one on 29 October and five on 30 October at RVS Yabeybyr, Dep. Misiones; three on 2 November and two on 3 November at Base Aerea, MN Bosque de Arary, Dep. Itapúa; and two from 3-4 November at nearby Puerto Turi. Although the identification of *Elaenia* spp. is problematic (see, e.g., Ridgely and Tudor 1994), these birds all gave the typical call of *E. albiceps* (a drawn-out, emphatic “teeeoo”) and showed a broad white crown-patch. In addition, they lacked the strong contrast between bright uppersparts and grey throat typical of Small-billed Elaenia *Elaenia parvirostris*.

Tawny-crowned Pygmy-tyrant *Euphagus melophus*

Campos Cerrados: up to six individuals were seen and tape-recorded from 10-12 October at PN Cerro Corá, Dep. Amambay. Previous studies at the park (e.g. Hayes and Scharf 1995) did not record the species.

Large-headed Flathill *Rhamphotrichon megacephala*

Campos Cerrados: two singing birds seen at PN Cerro Corá, Dep. Amambay, in riverside bamboo *Guadua* sp. on 11 October. Although Hayes (1995) listed just three or four records for the country, *Rhamphotrichon megacephala* has now been found in at least six widely spaced sites in eastern Paraguay (Lowen et al. 1996b, Madroño N. and Esquivel 1997, A. Madroño N. in litt. 1997). It is easy to overlook if the song (a disyllabic *whu-hoo*) is not known (Aleixo 1997, pers. obs.).

Piratic Flycatcher *Legatus leucophaius*

Ñeembucú: one seen and tape-recorded on 3 November at Base Aerea, MN Bosque de Arary, Dep. Itapúa; and up to five from 3-6 November at nearby Puerto Turi.

Bank Swallow *Riparia riparia*

Alto Paraná: single birds on 15, 17 and 20 October at RNP Itabó, Dep. Canindeyú; and two on 6 December at RNP Ypetí, Dep. Caazapá.

Cliff Swallow *Hirundo pyrrhonota*

Alto Paraná: approximately 50 on 15 October and one on 20 October at RNP Itabó, Dep. Canindeyú; approximately 100 birds on 5 December at RNP Ypetí, Dep. Caazapá.

Blue Dacnis *Dacnis cayana*

Ñeembucú: a pair on 4 November at Puerto Turi, MN Bosque de Arary, Dep. Itapúa.

Plumbeous Seedate *Sporophila plumbea*

Central Paraguay: up to 20 individuals daily from 14-19 September at Aguará Nú, RNBX, Dep. Canindeyú (photographed, mist-netted, tape-recorded); two males on 27 September in an isolated area of cerrado at Estancia Jiménez, Dep. Canindeyú.

White-bellied Seedate *Sporophila leucoptera*

Ñeembucú: at Puerto Turi, MN Bosque de Arary, Dep. Itapúa, three birds (adult male, immature male and a female) on 3 November, with the immature male still present on 4 November.

Giant Cowbird *Scaphidura oryzivora*

Ñeembucú: up to six birds daily from 28-31 October at RVS Yabeybyr, Dep. Misiones; at Base Aerea, MN Bosque de Arary, Dep. Itapúa, two on 1 November and one on 2 November; and up to 12 birds daily from 3-6 November at nearby Puerto Turi.

Closing remarks. Even compared to most countries in the Neotropics, all of which are under-studied, ornithological surveys in Paraguay remain in their infancy. Almost all species detailed here are relatively common, widespread, and easy to identify. That they had not previously been recorded in their respective geographical region is most likely due to lack of fieldwork in suitable habitat, rather than vagrancy or expanding populations.
ACKNOWLEDGMENTS

For their fieldwork we thank Ignacio Avila, Roger Barnes, Lucia Bartrina, Thomas Brooks, Vanessa Dorfa, Estela Esquivel, Nubia Etcheverry, Rosalina Farina, Bolivar Garcete Barrett, Richard Johnson, Durwyn Liley, Alberto Madrono N., Mirna Perrens, Jane Reid, Joe Tobias, Ramon Villalba, Sergio Villanueva, and Kristof Zyskowski. Our surveys were conducted with the help of the Direccio de Parques Nacionales y Vida Silvestre, the Facultad de Ciencias Exactas y Naturales, the Fundacion Moises Berardi, and the Museo Nacional de Historia Natural del Paraguay. Additional logistical support was provided by the British Embassy in Asuncion. Individuals from these institutions are credited in Lowen et al. (1996b), as are donors. Luciano Naka and Gina Pfaff provided the Portuguese abstract. Miguel Marini, Joe Tobias, David Wege, and two anonymous reviewers provided very helpful comments on an earlier version of this article.

REFERENCES


APPENDIX

Location of sites mentioned in the text. All sites were 100-450m elevation.

<table>
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<th>Region</th>
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