Cotinga 37 Short Communications

# Sympatry of Turquoisefronted Amazona aestiva, Orange-winged A. amazonica and Yellow-faced Amazons Alipiopsitta xanthops extends to the Paraguayan cerrado

Turquoise-fronted Amazona aestiva, Orange-winged A. amazonica and Yellow-faced Amazons *Alipiopsitta xanthops* are widely sympatric throughout the Cerrado biome of central Brazil and eastern Bolivia, and at least part of the Pantanal<sup>3,17</sup>. Within this zone of overlap, Alipiopsitta prefers open cerrado with scattered forest islands while the two Amazona prefer forest formations, with amazonica especially associated with gallery forest<sup>7</sup>. Until recently, of these three species, only A. aestiva had been documented in the Paraguayan cerrado<sup>5,9</sup>.

Alipiopsitta xanthops is a Near Threatened, Cerrado endemic<sup>2,15</sup>. It was 'not evaluated' by Guyra Paraguay<sup>5</sup>, being treated as a species that has previously appeared in lists of Paraguayan avifauna<sup>3</sup>, but for which 'no details ... are available'. In a review of psittacids in dpto. Concepción<sup>8</sup>, captive specimens seen in the city of Concepción were considered to have been imported from Brazil, but the species was subsequently documented for Paraguay<sup>1</sup>, at several localities in northern dpto. Concepción, where it is well known to local people and it appears to be a localised but perhaps not uncommon resident.

On 8-10 June 2013 we visited northern dpto. Concepción to document additional localities for A. xanthops in Paraguay. Nine were observed arriving at a known roost at Estancia Ñu Pyahu (22°25'10"S 56°49'30"W), near Colonia Sargento José Félix López (or Puentesiño) at dusk on 8 June 2013 and at dawn on 9 June 2013 three more were seen flying west along the río Apa at Colonia 6 de Enero Apa (22°15'54"S  $56^{\circ}54'06"W$ ). The latter is a new locality for the species in Paraguay (a full list of known Paraguayan localities is presented in Fig. 1,

with coordinates for published localities¹ being corrected or provided for the first time). At the same location, numerous pairs and small flocks of *Amazona aestiva*, and at least five pairs of *A. amazonica* were observed, and one photographed (RD) along the río Apa. These observations represent the first documentation of the species in Paraguay.

In south-central Brazil A. amazonica is widespread throughout Mato Grosso do Sul (www.wikiaves.com.br/mapaRegistros\_papagaio-galego) including the Serra da Bodoquena, which area shares considerable avifaunal affinity with dpto. Concepción<sup>11</sup>. The species is also considered to probably occur in Paraná<sup>14</sup>. Thus, given extensive overlap of these three species elsewhere, that the same is true in Paraguay is unsurprising<sup>15</sup>.

A. amazonica is frequently abundant over its vast South American range and may even have increased locally as a result of forest fragmentation. However, hunting for food and capture for the pet trade are potential threats<sup>7</sup>. As in many South American countries, an illegal trade in wild psittacids is well established in Paraguay and is particularly prevalent in speciesrich dpto. Concepción, where environmental law enforcement is almost non-existent. The area is within the range of several psittacids of high value on the black market (notably Anodorhynchus, Ara and Primolius macaws)6,9,16, but most are rare, and the common A. aestiva is thus the main target for trappers<sup>4,12,14</sup>. Though not known to all parrot traders we spoke to, one stated that the species is known locally as 'loro arai' ('cloud parrot') and that it is occasionally traded.

Traders are also familiar with *Alipiopsitta xanthops* but do not consider it a desirable species and thus of limited value, a fact supported by its rarity in the cagebird market<sup>10,16</sup>. The preference of *A. xanthops* for more open habitats, plus its tendency towards semi-nomadism<sup>16</sup> means that it may even be expanding its

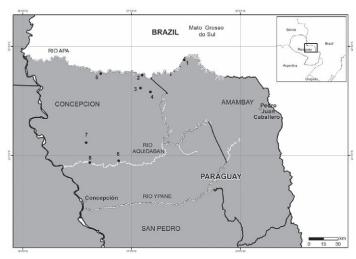


Figure I. Localities where Alipiopsitta xanthops has been recorded in Paraguay, based on Álvarez et al. with names of observers provided. Dpto. Amambay: (1) Bella Vista Norte (22°07'30"S 56°30'50"W) fide D. Aguilera. Dpto. Concepción: (2) Colonia 6 de Enero Apa (22°15'54"S 56°54'06"W) this work; (3) Colonia Jorge Sebastián Miranda (Hugua Ñandú) (22°23'S 56°55'W) fide F. Diaz; (4) Estancia Ñu Pyahu, near Colonia Sargento José Félix López (Puentesiño) (22°25'10"S 56°49'30"W) fide A. Diana; (5) San Carlos del Apa (22°15'S 57°17'W) fide A. Díaz; (6) Paso Barreto (23°03'S 57°07'W) fide R. López; (7) Colonia San Alfredo (22°53'S 57°25'W) fide B. Garcete; (8) Paso Horqueta (23°04'S 57°23'W) fide J. Benitez.

Cotinga 37 Short Communications

range in south-central Brazil (F. C. Straube *in litt*. 2012) and perhaps also in Paraguay.

Despite its location on the border with Brazil and at the interface of the humid Chaco and Cerrado eco-regions, difficulties of access and political instability have resulted in dpto. Concepción being one of the ornithologically least-known regions in Paraguay. Testament to this is that large. conspicuous species such as the two parrot species reported here, have escaped previous detection by ornithologists. It can be assumed that more intensive field work in the area will reveal additional, more elusive bird species, and that current knowledge underestimates the region's true biodiversity.

### **Acknowledgements**

Mónica Montiel accompanied us in the field, the forest guards at Parque Nacional Paso Bravo provided a place to sleep and anonymous parrot traders provided much useful information. Hugo Cabral and Sergio Rios produced the map. Thanks also to the observers listed in the legend to Fig. 1 for sharing their locality data for Alipiopsitta xanthops.

### References

- Álvarez, A., Amarilla, L. & Fernández, R. (2012) Primer registro reportado de loro keréu (Amazona xanthops) en la ecorregión cerrado del Paraguay. Comp. Cienc. Vet. 2: 7–11.
- 2. BirdLife International (2013) Species factsheet: Alipiopsitta xanthops. www.birdlife.org/datazone/speciesfactsheet. php?id=1676.
- Forshaw, J.M. & Cooper, W. T. (1989) Parrots of the world. Third (revised) edn.

- Melbourne: Landsdowne Editions.
- Guix, J. C., Jover, L. & Ruiz, X. (1997) Muestreos del comercio de psitácidos neotropicales en la ciudad de Barcelona, España 1991–1996. Ararajuba 5: 159–167.
- Guyra Paraguay (2004) Lista comentada de las aves del Paraguay. Asunción: Guyra Paraguay.
- Guyra Paraguay (2005) Atlas de las aves de Paraguay. Asunción: Guyra Paraguay.
- 7. Juniper, T. & Parr, M.
  (1998) Parrots: A guide to
  the parrots of the world.
  Robertsbridge: Pica Press.
- 8. López, N. E. (1991)
  Distribución, ecología y situación de psitácidos en el departamento de Concepción, Paraguay. M.Sc. thesis. San José: Universidad Nacional de Costa Rica.
- 9. López, N. E. (1992)
  Observaciones sobre la
  distribución de psitácidos
  en el Departamento de
  Concepción, Paraguay.
  Bol. Mus. Nac. Hist. Nat.
  Paraguay 11: 2–25.
- Low, R. (1992) Parrots in aviculture: a photo reference guide. London, UK: Blandford Press.
- Pivatto, M. A. C., Manco,
   D. D. G., Straube, F. C.,
   Urben-Filho, A. & Mileno,
   M. (2006) Aves do Planalto da Bodoquena, Estado do
   Mato Grosso do Sul (Brasil)
   Atualidades Orn. 129: 1–26.
- Ridgely, R. S. (1981) The current distribution and status of mainland Neotropical parrots.
   In: Pasquier, R. F. (ed.) Conservation of New World parrots.

- International Council for Bird Preservation.
- Scherer-Neto, P., Straube,
   F. C., Carrano, E. & Urben
   Filho, A. (2011) Lista das
   aves do Paraná. Curitiba:
   Hori Consultoria Ambiental.
- 14. Sick, H. (1993) Birds in Brazil.
  Princeton, NJ: Princeton
  University Press.
- Silva, J. M. C. (1997) Endemic bird species and conservation in the cerrado region, South America. *Biodiver. Conserv*. 6: 535–550.
- Snyder, N., McGowan, P., Gilardi, J. & Grajal, A. (2000) Parrots: status survey and conservation action plan 2000–2004. Gland & Cambridge, UK: IUCN.
- 17. Tubelis, D. P. & Tomas, W. M. (2003) Bird species of the Pantanal wetland, Brazil. Ararajuba 11: 5–37.

#### Paul Smith

Fauna Paraguay, Encarnación, Paraguay; and Para La Tierra, Reserva Natural Laguna Blanca, Santa Rosa del Aguaray, San Pedro, Paraguay. E-mail: faunaparaguay@gmail.com.

## Roberto Derna

Fauna Paraguay, Encarnación, Paraguay.

### Hugo del Castillo

Fauna Paraguay, Encarnación, Paraguay; and Guyra Paraguay, Gaetano Martino 215 esq. Tte. Ross., Asunción, Paraguay.

## Andrés Álvarez

Dpto. de Recursos Faunísticos y Medio Natural, Facultad de Ciencias Veterinarias, Universidad Nacional de Asunción, San Lorenzo, Paraguay.

Received 16 July 2013; final revision accepted 25 February 2014; published online 10 March 2015