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DESCRIPTIONS OF PROPOSED NEW BIRDS FROM BRAZIL AND PARAGUAY

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This is the third preliminary report on the Roosevelt Collections made by Mr. Cherrie in the years 1913 and 1916. The authors are indebted to the authorities of the natural history museums of Munich, Frankfort, Berlin, Vienna, Tring, and South Kensington for affording Mrs. Reichenberger opportunity to study material in connection with the preparation of the present paper.

All measurements are given in millimeters and made with dividers, the wing retaining the curvature of its primaries as well as the bent position of the manus taken in drying.

Tangara cyaneicollis melanogaster, new subspecies

SUBSPECIFIC CHARACTERS.—Similar to *Tangara cyaneicollis cæruleocephala* from northern and central Peru, but with very little if any bluish wash on lower flanks, the whole abdomen being nearly uniform black, whereas the rump is more or less conspicuously mixed with verditer blue.

TYPE.—No. 128220, Amer. Mus. Nat. Hist.; ♂ ad.; Utiarity near Salto Bello, Papagaio River, alt. 1500–2500 ft., Matto Grosso, Brazil; January 30, 1914; George K. Cherrie. Wing, 66; tail, 44.5; exposed culmen, 10.5.

SPECIMENS EXAMINED

Tangara cyaneicollis melanogaster.—BRAZIL: Matto Grosso,—Engenho do Gama, 4 ♂, 1 ♀, Utiarity, 1 ♂, 3 ♀, Tapirapoan, 1 ♂, 1 ♀, Doze Octobre, 1 ♀.

Tangara cyaneicollis cyaneicollis.—BOLIVIA (north): Yungas,—Songo, 1 ♂. PERU (southeast): Andes of Carabaya, Yahuarmayo, 2 ♂; Chaquimayo, alt. 3000 ft., 2 ♂, 1 ♀; Rio Inambari, 3 ♂, 1 ♀; Santo Domingo, 3 ♂, 3 ♀; La Pampa, 1 ♂; Candamo, 2 ♂; Rio Javara, 3 ♂, 1 ♀.

Tangara cyaneicollis cæruleocephala.—PERU (north): Nuevo Loreto, eastern Tayabamba, 2 ♂; Piña, 1 ♀. PERU (central): Chanchamayo, alt. 3300–5000 ft., 1 ♂, 1 ♀, 1 ♀ juv.; Prov. Huanuco,—Pozuzo, 1 ♂. ECUADOR (east): Rio Napo, San José, 1 ♀ juv.; Zamora, 3 ♂, 3 ♀.

Tangara cyaneicollis granadensis.—COLOMBIA: Bogotá Collection, 3 ♂, 1 ♀; Cauca Valley, 1 ♂; La Candela, 1 ♀; Andalucia, 1 ♂; near San Agustín, 2 ♂, 2 ♀.

Tangara cyaneicollis hannahæ.—VENEZUELA (western): Tachira,—San Cristóbal, 3 ♂, 1 ♀; Mérida, 1? (Cassin's type, Academy of Natural Sciences, Philadelphia).

This interesting new race resembles *Tangara cyaneicollis cæruleocephala* in the possession of a strong indigo blue tinge on the middle of the

MEASUREMENTS (Extremes and Averages)

	Wing	Tail	Exposed Culmen	Collection
<i>Tangara cyaneicollis melanogaster</i>				
Brazil: Matto Grosso	6♂ 64.5-70. (66.) ¹	44. -47.5 (44.9)	9.5-10.5 (10.)	Amer. Mus. Nat. Hist.
" "	6♀ 62.5-66.5 (64.1)	41. -46.5 (43.5)	10. -10.5 (10.3)	" " "
<i>Tangara cyaneicollis cyaneicollis</i>				
North Bolivia: Yungas, Songo	1♂ 69.5	46.5	10.	Munich Museum
Southeast Peru	4♂ 67. -70. (68.5)	44. -47.5 (46.1)	10. -11. (10.5)	" "
" "	1♀ 67.	48.	10.	" "
<i>Tangara cyaneicollis caeruleocephala</i>				
Eastern Ecuador: Zamora	3♂ 67. -69. (67.6)	43.5-45.5 (44.3)	10. -11. (10.5)	Amer. Mus. Nat. Hist.
" North Peru: Nuevo Loreto	1♂ 67.5	47.5	9.	Munich Museum
" " "	1♂ 68.5	48.5	9.5	" "
Eastern Ecuador: Zamora	3♀ 65. -68.5 (66.6)	43. -44. (43.6)	9.5-10.5 (10.)	Amer. Mus. Nat. Hist.
Central Peru: Chanchamayo	1♀ 63.5	44.	8.5	" " "
<i>Tangara cyaneicollis granadensis</i>				
Colombia	7♂ 67. -70. (68.8)	44. -49. (47.)	8.5-11. (10.1)	Munich Museum
Colombia: La Candela	1♀ 67.	48.	9.5	" "
" Bogota Collection	1♀ 66.5	46.5	10.	" "
<i>Tangara cyaneicollis hannahae</i>				
Venezuela: San Cristobal	3♂ 65.5-67.5 (66.5)	46. -50. (48.)	9.5-10.5 (9.8)	Berlepsch
" "	1♀ 67.	46.5	10.5	" "
" Mérida (Cassin's type)	1? 65.	50.	8.5	Philadelphia Academy of Nat. Sci.

¹Averages given in parentheses.

throat, in the color of the upper part of the head, and in the decidedly golden shoulder patch. When compared with *Tangara cyaneicollis cyaneicollis*, the upper part of the head is of a darker tinge, slightly washed with purple about the forehead and across the nape. In *Tangara cyaneicollis cæruleocephala*, however, the whole of the lower breast and abdomen is mainly deep purplish blue, shading into azure blue on the flanks, whereas in the new race the entire belly is either wholly black or slight obsolete edges of dull blue show only on some of the feathers of the flanks and anal region, this being especially noticeable in males in first annual plumage and in females. In the absence of blue on the belly, *Tangara cyaneicollis melanogaster* recalls *Tangara cyaneicollis hannahæ*, from the mountains of Venezuela (Tachira to Carabobo). *T. c. hannahæ*, however, may immediately be recognized by the deeper velvety black of the under parts, the much clearer verditer blue crown, without a purplish tinge on forehead and neck; by the decidedly lighter, more bronzy or silvery greenish shoulder patch; and by the silver greenish rump without any bluish admixture.

Tangara cyaneicollis melanogaster seems to have a peculiarly restricted range, it being as yet known only from the western portion of Matto Grosso.

***Eupsittula aurea major*, new subspecies**

SUBSPECIFIC CHARACTERS.—Indistinguishable in coloration from *Eupsittula aurea aurea* from various Brazilian localities but wing and tail longer.

TYPE.—No. 149401, Amer. Mus. Nat. Hist.; ♂ ad.; Puerto Pinasco, Rio Paraguay, Paraguay; October 20, 1916; George K. Cherrie. Wing, 159.5; tail, 142; exposed culmen, 20.5.

Because it seems desirable to have a specified type locality for *Eupsittula aurea aurea*, a bird of widespread range, we formally propose Bahia, eastern Brazil.

SPECIMENS EXAMINED

Eupsittula aurea major.—PARAGUAY: Puerto Pinasco, 1 ♂ (the type), 1 ♀; Concepcion, 1 ♂.

Eupsittula aurea aurea.—BRAZIL: Bahia,—2 ♂, 1 ♀; West Minas Geraës,—Agua Suja near Bagagem, 1 ♀, 1 ?; Matto Grosso,—Palmiras, 1 ♂, 1 ♀, Tapirapoan, 1 ♂, José Bonifacio, 1 ♂; Maranhão,—Miritiba, 1 ♂, 1 ♀; Isle of Marajó,—Cachoneira, 1 ♂, 1 ♀; Fazenda Ararý on the upper Rio Ararý, 1 ♂, 1 ♀; Tuyuyu, 1 ♂, 1 ♀; Natal, 1 ♀.

Measurements

		Wing	Tail	Culmen	Collection
<i>Eupsittula aurea aurea</i>					
Brazil: Bahia	♂	142.	132.5	18.5	Amer. Mus. Nat. Hist.
" "	♂	139.5	125.5	18.	Munich Museum
" "	♀	140.	¹	17.5	Amer. Mus. Nat. Hist.
" Minas Geraës, Agua Suja near Bagagem	♀	146.	145.5	17.5	Munich Museum
" Minas Geraës, Agua Suja near Bagagem	?	148.5	141.	18.	" "
" Matto Grosso, Palmiras	♂	139.5	123.	18.	Amer. Mus. Nat. Hist.
" " " "	♀	141.	126.	17.5	" " " "
" " " Tapirapoan	♂	141.5	125.5	18.5	" " " "
" " " José Boni- facio	♂	147.5	136.	16.	" " " "
" Maranhão, Miritiba	♂	139.	118.5	19.5	Munich Museum
" " "	♀	145.5	126.5	20.	" "
Isle of Marajó, Cachoneira	♂	145.	135.5	20.	" "
" Fazenda Arary	♂	148.	¹	21.5	" "
" Tuyuyu	♂	141.	128.5	19.5	" "
" "	♀	142.5	134.5	20.	" "
" Fazenda Arary	♀	143.	¹	20.	" "
" Cachoneira	♀	137.5	128.	22.	" "
" Natal	♀	138.	131.	19.	" "
<i>Eupsittula aurea major</i>					
Paraguay: Puerto Pinasco (the type)	♂	159.5	142.	20.5	Amer. Nat. Nat. Hist.
" Puerto Pinasco	♀	155.	142.	19.	" " " "
" Concepcion	♂	153.	137.5	18.5	Munich Museum

***Manacus manacus subpurus*, new subspecies**

SUBSPECIFIC CHARACTERS.—Under tail coverts white as in *Manacus manacus purus*, but with the gray area on sides and flanks more extensive and deeper in color, corresponding to the gray sides and flanks of *Manacus manacus trinitatis*. There is also a faint grayish wash on breast and abdomen. The blackish area on the back is more extended than in *Manacus manacus purus*, and the gray color of rump and upper tail coverts is darker.

TYPE.—No. 127944, Amer. Mus. Nat. Hist.; 1 ♂; Tapirapoan, Siputuba River, Matto Grosso, Brazil; January 19, 1914; George K. Cherrie. Wing, 51; tail, 30.5; exposed culmen, 9.

¹Tail defective.

SPECIMENS EXAMINED

Species with White Under Tail Coverts

Manacus manacus subpurus.—BRAZIL: Matto Grosso,—Tapirapoan (type), 1 ♂, Mütum Cavallo, 1 ♂, Santa Isabel (Rio Preto; right bank of the Rio Madeira), 1 ♂, Engenho do Gama, 1 ♂, 1 ♀, S. Vicente, 1 ♀.

Manacus manacus purus.—BRAZIL: Santarem, 6 ♂; Baião, 2 ♂; Providencia, 1 ♂; Pará, 1 ♂; Pedreira near Pará, 1 ♂; Utinga near Pará, 2 ♂; Calama (Rio Machados), 1 ♂; Borba, 3 ♂¹; Maranhão,—Miritiba, 2 ♂.

Species with Gray Under Tail Coverts

Manacus manacus manacus.—FRENCH GUIANA: Cayenne, 1 ♂. BRITISH GUIANA: Demarara, 1 ?; Wismar, 4 ♂; Rockstone (Essequibo River), 3 ♂; Faro, 1 ♂; Monte Alegre, 1 ♂.

Manacus manacus trinitatis.—TRINIDAD: Princetown, 5 ♂.

Manacus manacus abditivus.—COLOMBIA: Santa Marta, 11 ♂; Puerto Valdivia, 1 ♂; Malena, 1 ♂.

Manacus manacus gutturosus.—BRAZIL: Bahia,—7 ♂; São Paulo,—Fazenda Cayoá (Salto Grande, Rio Parapanema), 1 ♂, Sebastião, 1 ♂; Espirito Santo,—Victoria, 2 ♂.

Manacus manacus flaveolus.—COLOMBIA: Bogotá, 3 ♂; within 20 miles of Honda, 6 ♂; Chicoral, 5 ♂.

Manacus manacus leucochlamys.—ECUADOR: Coast of Manaví, 3 ♂; Esmeraldas, 6 ♂.

Manacus manacus bangsi.—COLOMBIA: Barbacoas, 4 ♂.

Manacus manacus interior.—VENEZUELA: Maripá, 5 ♂. COLOMBIA: Villaviciencia, 1 ♂ (type, A. M. N. H.); Bogotá Collection, 3 ♂. ECUADOR: Rio Napo, 1 ♂.

This new subspecies is intermediate geographically, as well as in its subspecific characters, between *Manacus manacus purus* (from Santarem, type locality, and the whole lower Amazon region) and *Manacus manacus gutturosus* (from southeastern Brazil). As far as we know, *Manacus manacus subpurus* is confined to the central portion of Brazil. On the upper parts our new subspecies resembles *Manacus manacus manacus* in the extent of the black area and in the gray color of the rump and tail. It differs, however, in having the nape unbarred. We may therefore conclude that *Manacus manacus subpurus* ranges from at least Calama, on the right bank of the Rio Madeira, down to western Matto Grosso, while specimens of *Manacus manacus purus* are found at Borba on the right bank of the lower Madeira, east to Maranhão.²

¹The three males from Borba, Rio Madeira, agree in their main characters with *Manacus manacus purus* but form the connecting link with *Manacus manacus manacus* by the slight grayish admixture of the under tail coverts.

²Specimens recorded by Miss Sneath ('Cat. Aves Amaz.', p. 370, 1914), from Boim, the left bank of the Tapajoz, must be examined before ascertaining to which race they are referable. Specimens from Febas, Iquitos (Peru), belong to *Manacus manacus interior* Chapman.

***Nystalus maculatus pallidigula*, new subspecies**

SUBSPECIFIC CHARACTERS.—Agreeing with *Nystalus maculatus parvirostris* from Goyaz, in shortness of bill and tail, but differing in the considerably paler deep buff, instead of tawny color, of the throat and in having the breast and sides marked with longitudinal stripes instead of rounded "rhomboid" spots.

TYPE.—No. 127477, Amer. Mus. Nat. Hist.; ♂ ad.; Urucum, near Corumbá, Matto Grosso, Brazil; December 8, 1913; George K. Cherrie. Wing, 78.5; tail, 70; exposed culmen, 29.5; culmen from nostril, 24.

SPECIMENS EXAMINED

Nystalus maculatus pallidigula.—BRAZIL: Matto Grosso,—Chapada, 2 ♂, Urucum, 4 ♂, 3 ♀, Retiro, 2 ♂, Caiçara, 1 ♂.

Nystalus maculatus maculatus.—BRAZIL: Ceará,—Quixada, 2 ♂, 3 ♀, Jua, 2 ♂ (the type, Field Museum), 3 ♀; Bahia,—(trade skins), 18?, Lamarão, 3 ♂, Fazenda Taboa, Rio Preto, 1 ♀, Joazeiro, 1 ♂, S. Amaro, 1 ♂, 2 ♀, Alagóinas, 1 ♀, Mata de S. Joan, 1 ♀; Piauí,—Therezina, 1 ♂; Pernambuco,—Recife, 1?; Maranhão,—1 ♀, Miritiba, 1 ♂, 3 ♀; Marajó Island,—Pacoval, 2?; Santarem, 11 ♂, 9 ♀, 2 ad?; Rio de Janeiro, 1?

Nystalus maculatus parvirostris.—BRAZIL: Goyaz,—Rio Araguaya, 2 ♂ (the type, Tring Museum), 2 ♀.

Nystalus maculatus striatipectus.—BOLIVIA: Dept. Mizque,—S. José, 1?; Dept. Santa Cruz,—Valle Grande, 1 ♀, Samaipata, 1 ♀, Pampa de la Isla, 1 ♂, Santa Cruz de la Sierra, 2 ♂, Pampas de Taperas (20 leagues south of Santa Cruz), 1?; Prov. del Sara,—1 ♂; Chiquitos,—Palmarito (Rio S. Julian), 2?; Dept. de la Cordillero,—Guanacos, 1 ♀; Dept. Tarija,—Villa Montes (Pilcomayo River), 3 ♂; neither locality nor sex given, 2; Puerto Suarez, 1 ♂. ARGENTINA: Prov. of Jujuy,—Perico, 1 ♂, 1 ♀; Prov. of Salta,—Embarcacion, 2 ♂, 6 ♀, Rosario de Lerma, 7 ♂, 4 ♀; Prov. Tucuman,—Sarmiento, 2 ♂; Prov. Santiago del Estero,—Suncho Corral, 1 ♂, 3 ♀; Prov. de Chaco,—Avia Terai (General Pinedo), 1 ♂, 1 ♀.

Nystalus maculatus pallidigula agrees with *Nystalus maculatus striatipectus* from Bolivia and northwest Argentina in the pale color of the throat, and the markings of the lower parts, but is much smaller, the bill especially being weaker. The range of this subspecies is confined to Matto Grosso.

None of the characters claimed by Mr. Cory for his proposed new race of *Nystalus maculatus nuchalis*¹ hold good. There is perhaps a slight difference in the coloration of the under parts, the birds from Ceará being, as a rule, less heavily spotted beneath. This, however, may be due in part at least to the make-up of the skins, and is not borne out by the other specimens from northeast Brazil we have seen, since examples from Miritiba, Maranhão and the neighboring states of Piauí are not distinguishable from the average Bahia birds.

MEASUREMENTS (Extremes and Averages)

	Wing	Tail	Exposed Culmen	Collection
<i>Manacus manacus subpurus</i>				
Brazil: Matto Grosso	3 ♂ 49. -51. (49.8)	30.5-31.5 (30.8)	9. -10.5 (9.6)	¹
" Borba, Rio Madeira	3 ♂ 49. -50. (49.1)	29. -31.5 (30.)	8.5-10. (9.1)	Vienna Museum
<i>Manacus manacus purus</i>				
Brazil: Santarem	6 ♂ 47. -52. (49.5)	29. -31. (30.)	8.5-10. (8.9)	Amer. Mus. Nat. Hist.
" Providencia	1 ♂ 49.	29.	8.5	" " "
" Baião, Rio Tocantins	1 ♂ 51.	32.	9.5	" " "
" "	1 ♂ 49.	30.	8.5	" " "
" Diamantina, near Santarem	1 ♂ 48.	30.5	9.5	" " "

² ♂ from the Amer. Mus. Nat. Hist., 1 ♂ from the Vienna Museum.

Nystalus maculatus maculatus inhabits northeastern Brazil from Bahia to Ceará, Maranhão, and occurs also on the Island of Marajó and at Santarem.

Nystalus maculatus parvirostris is as yet only known from the Upper Rio Araguaya, near Leopoldina in the state of Goyaz.

Nystalus maculatus pallidigula is confined to west and east Matto Grosso.

Nystalus maculatus striatipectus ranges over eastern Bolivia and northwest Argentina.

MEASUREMENTS (Extremes and Averages)

		Wing	Tail	Exposed Culmen	Collection
<i>Nystalus maculatus pallidigula</i>					
Brazil: Matto Grosso, Urucum	4 ♂	71. -76. (73.2)	62.5-68. (66.)	27.5-28.5 (28.)	Amer. Mus. Nat. Hist.
" " " Retiro	1 ♂	75.	65.	30.	Vienna Museum
" " " "	1 ♂	76.5	67.	28.	" "
" " " Caiçara	1 ♂	74.	63.5	25.5	" "
<i>Nystalus maculatus maculatus</i>					
Brazil: Bahia (18 trade skins)		74.5-81. (77.)	61.5-75. (67.6)	30. -36. (33.5)	{ British Museum Tring Museum
" Lamarão	4 ♂	72. -75.5 (74.5)	67. -71. (69.1)	30. -32. (30.9)	Carnegie Museum
" Santarem	10 ♂	72. -77. (74.7)	64. -70. (66.4)	27.5-34. (32.5)	Vienna Museum
" Prov. Piahy, Therezina	1 ♂	74.	69.	33.	" "
" Maranhão, Miritiba	1 ♂	75.5	69.	32.	Tring Museum
" " "	1 ♂	75.	67.5	32.	" "
<i>Nystalus maculatus parvirostris</i>					
Brazil: Goyaz, Rio Araguaya (type)	1 ♂	74.5	62.	28.	Tring Museum
" " "	1 ♂	74.	67.	27.5	" "
<i>Nystalus maculatus striatipectus</i>					
Argentina: Prov. of Salta	9 ♂	73. -80. (75.7)	66. -71. (69.3)	28. -35. (30.7)	Amer. Mus. Nat. Hist.
" Prov. Tucuman, Prov. del Estero, Gob. de Chaco	5 ♂	75. -81. (78.5)	66. -71. (68.8)	30. -33.5 (30.1)	" " " "
Bolivia: Dept. Tarija, Villa Montes	3 ♂	80. -82.5 (81.3)	68. -77. (72.6)	28.5-33. (31.5)	Berlin Museum
" Dept. Santa Cruz (1 ♂); Santa Cruz de la Sierra (2 ♂); Prov. de la Sara (1 ♂), Puerto Suarez (1 ♂)	5 ♂	71.5-82.5 (76.5)	62. -72. (68.7)	28. -32. (30.1)	Carnegie Museum
<i>Nystalus maculatus pallidigula</i>					
Brazil: Matto Grosso, Urucum	3 ♀	77. -78.5 (77.5)	68.5-70. (69.)	25. -32. (28.5)	Amer. Mus. Nat. Hist.
<i>Nystalus maculatus maculatus</i>					
Brazil: Bahia	6 ♀	77. -80. (77.9)	67.5-75. (72.1)	32.5-37. (35.) ¹	
" Maranhão	4 ♀	76.5-78.5 (77.5)	67.5-71. (69.7)	32.5-37. (35.) ²	
" Santarem	9 ♂	77. -79. (78.1)	67. -73.5 (69.7)	34. -37.5 (35.7)	Carnegie Museum
<i>Nystalus maculatus striatipectus</i>					
Argentina: Prov. Tucuman	5 ♀	76. -81. (77.8)	64.5-77. (69.9)	29.5-33.5 (31.3) ³	
" Prov. of Salta	11 ♀	77. -81. (79.)	67. -75. (70.9)	27.5-35. (32.6) ⁴	
Bolivia: Dept. Valle Grande, Samaipata	{ 1 ♀ 1 ♀	85.5 84.5	73. 74.5	33. 34.	Berlepsch Carnegie Museum
" Dept. de la Cordillera, Guanacos	1 ♀	79.5	67.5	33.5	" "

¹ 3 ♀, Vienna Mus.; 1 ♀, Tring Mus.; 2 ♀, Amer. Mus. Nat. Hist. ² 3 ♀, Tring Mus.; 1 ♀, Munich Mus. ³ 2 ♀, Amer. Mus. Nat. Hist.; 1 ♀, Berlin Mus.; 2 ♀, Tring Mus. ⁴ 9 ♀, Amer. Mus. Nat. Hist.; 1 ♀, British Mus.; 1 ♀, Munich Mus.

