

**Article XIV.—LIST OF BIRDS COLLECTED IN THE
DISTRICT OF SANTA MARTA, COLOMBIA,
BY MR. HERBERT H. SMITH.**

By J. A. ALLEN.

The basis of the present paper is a collection of 2834 birds collected under the direction of Mr. Herbert H. Smith, in the neighborhood of Santa Marta, Colombia, between sea-level and an altitude of about 8000 feet, from May 4, 1898, to September 7, 1899, and purchased for the American Museum of Natural History by its President, Morris K. Jesup, Esq., together with Mr. Smith's large collection of mammals obtained in the same region, as elsewhere noted.¹

The Smith Collection of birds numbers 304 species, and includes all but 84 hitherto recorded from this small area. As a matter of interest and convenience to future workers in this field I have interpolated in brackets the species not obtained by Mr. Smith's collectors, and as a matter of geographical interest have deemed it best to give a complete summary of our present knowledge of the distribution of the species definitely known from the district under consideration, and have therefore cited the previous records as given by Messrs. Salvin and Godman and Mr. Outram Bangs.

As Messrs. Salvin and Godman stated in 1879 (Ibis, April, 1879, p. 197), in their report on the collection made in this region by Mr. F. Simons in 1878 and 1879: "There are few places in South America of which the zoology is less known than that of the mountainous tract of land lying between the mouth of the Magdalena river and the Gulf of Maracaibo, usually known as the Sierra Nevada of Santa Marta. Though this district has been visited by botanical travellers, no zoologist has as yet penetrated into it; or, at any rate, no results of any such expedition have been made public.¹ If we except the immediate neighborhood of Santa Marta itself, where several collectors have worked for a

¹ Bull. Am. Mus. Nat. Hist., Vol. XII, 1899, p. 195.

² "In 1870 Mr. G. Joad, F.Z.S., rode round the Sierra Nevada from Santa Martha, and collected a few birdskins. Amongst these was the type of the new *Furnarius*, described by us in the 'Nomenclator' as *F. agnatus*, which was obtained at Valle Dupar."

short time, the remainder of this limited district is so little known that we can only recall the name of one bird, a Humming-bird (*Anthocephala floriceps*), found in it; and this was obtained by a botanist, so Mr. Gould tells us, near San Antonio, in the Nevada itself. Here, then, was a promising field for an ornithologist—this isolated mass of mountains, whose snowy peaks, visible from far out on the Caribbean Sea, form so striking a feature in the scenery on the northern coast of South America.”

Mr. Simons worked mainly on the southern slope of the Sierra Nevada, at Valle Dupar, San Sebastian, Atanques, San José, and Chinchicua, these points varying in altitude from 700 to 11,000 feet. He ascended to 17,000 feet, and collected some specimens at altitudes above 14,000 feet. He also collected at Santa Marta and Minca, near the coast, and at Manaure, about ten miles south-east of Valle Dupar, on the eastern side of the valley of the Rio Cesar, at the foot of the western slope of the Cordillera de los Andes, and hence really outside of the Sierra Nevada region proper. A rectangular area of about 30 by 50 miles, the longer diameter being east and west, would include the whole district where Mr. Simons collected, and much more than cover the regions since visited by Mr. W. W. Brown in the interest of Mr. Bangs, and by Mr. Smith's collectors in the interest of this Museum.

This region, for the obvious reasons already quoted from Salvin and Godman, has of late presented strong attractions to a number of American naturalists, and for nearly a year before Mr. Smith's departure he had been preparing to thoroughly explore the Santa Marta district of Colombia, both zoologically and botanically, beginning at sea-level and later working up to the highest points of the Sierra, it being his intention to devote from three to five years to the work, aided by a number of assistants. By a singular coincidence, Messrs. O. and E. O. Bangs, well-known naturalists of Boston, Mass., were at the same time arranging to send an experienced collector, Mr. W. W. Brown, Jr., to this same region, in absolute ignorance of Mr. Smith's plans, and Mr. Smith and myself were in equal ignorance of the plans of Messrs. Bangs. It happened that Mr. Brown was first on the ground, and his collections began to reach Boston long before any portion of Mr. Smith's were received here. For months after Mr. Smith's

arrival at Santa Marta he was laid up with a nearly fatal illness, and for the last year his work has been almost wholly suspended in consequence of the disturbed condition of the region, due to a violent insurrection in his immediate neighborhood. Although further shipments are expected from Mr. Smith, nothing has been received from him for many months, and it has therefore seemed desirable to place on record the results of his first shipments of birds, numbering, as already stated, nearly 3000 specimens, and to collate them with the published results of other collectors in this limited area, as recorded in the following papers :

- 1879-80. SALVIN, OSBERT, and F. DUCANE GODMAN. On a Collection of Birds from the Sierra Nevada of Santa Marta, Colombia. *Ibis*, 1879, pp. 196-206; 1880, pp. 114-125, 169-178, pll. iii-v.
1879. SIMONS, F. A. A. Notes on the Topography of the Sierra Nevada of Santa Marta, U. S. Colombia. *Proc. Roy. Geogr. Soc.*, I, Nov., 1879, pp. 689-701, with map.
1898. BANGS, OUTRAM. On Some Birds from Santa Marta, Colombia. *Proc. Biol. Soc. Wash.*, XII, pp. 131-144. Jan. 3, 1898.
1898. ————. On Some Birds from Pueblo Viejo, Colombia. *Ibid.*, pp. 157-160. Aug. 10, 1898.
1898. ————. On Some Birds from the Sierra Nevada de Santa Marta, Colombia. *Ibid.*, pp. 171-182. Oct. 31, 1898.
1899. ————. On the Subspecies of *Manacus manacus* (Linn.). *Proc. N. England Zool. Club*, I, pp. 33-37. March 31, 1899.
1899. ————. On Some New or Rare Birds from the Sierra Nevada de Santa Marta, Colombia. *Proc. Biol. Soc. Wash.*, XIII, pp. 91-108. Nov. 11, 1899.
1899. ————. On a Small Collection of Birds from San Sebastian, Colombia. *Proc. N. Engl. Zool. Club*, pp. 75-80. Dec. 27, 1899.
1900. ————. A New Dove from the Sierra Nevada de Santa Marta, Colombia. *Ibid.*, pp. 107-109. May 14, 1900.

Only two collections of birds of any considerable importance appear to have been made in the Santa Marta region of Colombia prior to the Smith collection. The first of these, made by Simons in 1878-79, was reported upon by Salvin and Godman in 1879-80, as above noted, the number of species recorded being 160. (The number of specimens in the collection is not stated.) Apparently two¹ other species were overlooked, or not reported in the Salvin-Godman paper, as shown by the record of the Salvin-

¹ *Doleromyia fallax* (Bourc.) and *Heliochera rubrocristata* (d'Orb. & Lafr.).

Godman collection given *passim* in the various volumes of the 'Catalogue of the Birds in the British Museum,' making a total of 162. Of this number 21 still rest on the authority of the Simons collection, being unrepresented in either the Brown or Smith collections. The following species were described as new :

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| 1. <i>Campylopterus phainopeplus.</i> | 5. <i>Basileuterus conspicillatus</i> = <i>B. cinereicollis</i> <i>Sclater.</i> |
| 2. <i>Ramphomicron dorsale.</i> | 6. <i>Pœcilothraupis melanogenys.</i> |
| 3. <i>Oxyopogon cyanolæmus.</i> | 7. <i>Buarremon melanocephalus.</i> |
| 4. <i>Ochthoeca poliogastra.</i> | |

The second is the fine collection of about 2500 specimens made by Mr. Brown for the Bangs Brothers of Boston, in 1897-99, and reported upon by Mr. O. Bangs in the series of papers already cited, and which, it is to be hoped, will be followed by a general paper embodying the collector's field notes. Mr. Bangs appears to have recorded 242 species and subspecies, of which 40, and one genus, were described as new. While many of these new forms were now for the first time made known from the region, others are simply new names for species previously recorded by Salvin and Godman, the large amount of material now available for comparison showing them to be local forms entitled to subspecific recognition. In nearly all cases the abundant material in the Smith collection, in so far as such forms are represented in it, confirms Mr. Bangs's conclusions. As Mr. Brown collected extensively at altitudes above the points Mr. Smith has thus far reached, quite a number of Mr. Bangs's new forms are unrepresented in the Smith collection. The Brown collection contained 121 species not obtained by Simons, raising the number of species definitely known from the Santa Marta region to 283. Of this number 36 rest thus far solely on the authority of the Brown collection. Following is a list of the new forms, with their equivalents in the Salvin-Godman paper, so far as they are there represented :

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| 1. <i>Neocrex columbianus.</i> | 5. <i>Pharomacrus festatus</i> = <i>P. fulgidens.</i> |
| 2. <i>Geotrygon linearis infusca.</i> | 6. <i>Melanerpes wagleri sanctæ-martæ</i> = <i>Centurus tricolor.</i> |
| 3. <i>Aulacorhamphus lautus</i> = <i>A. albivittatus.</i> | 7. <i>Acestrura astreans</i> = <i>A. multisanti.</i> |
| 4. <i>Galbula ruficauda pallida</i> = <i>G. ruficauda.</i> | |

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| 8. <i>Leucuria</i> (gen. nov.) <i>phalerata</i> . | 25. <i>Haplospiza nivaria</i> = <i>Phrygilus unicolor</i> . |
| 9. <i>Metallura districta</i> = <i>M. smaragdinicollis</i> ? | 26. <i>Spinus spinescens capitaneus</i> . |
| 10. <i>Elænea sororia</i> . | 27. <i>Cyanocompsa concreta sanctæ-martæ</i> . |
| 11. <i>Elænea browni</i> . | 28. <i>Buarremon basilicus</i> . |
| 12. <i>Myiopatis montensis</i> . | 29. <i>Piranga faceta</i> . |
| 13. <i>Hapalocercus paulus</i> . | 30. <i>Cyclorhis flavipectus canticus</i> = <i>C. flavipectus</i> . |
| 14. <i>Ochthodiæta pernix</i> . | 31. <i>Diglossa nocticola</i> . |
| 15. <i>Pipreola auripectus decorus</i> . | 32. <i>Dacnis napæa</i> . |
| 16. <i>Manacus manacus abdivitus</i> = <i>Chromachæris manacus</i> . | 33. <i>Troglodytes monticola</i> . |
| 17. <i>Dendrocincla olivacea anguina</i> . | 34. <i>Thryothorus lætus</i> . |
| 18. <i>Sclerurus albigularis propinquus</i> . | 35. <i>Henicorhina anchoreta</i> . |
| 19. <i>Automolus rufipectus</i> . | 36. <i>Cinclus rivularis</i> . |
| 20. <i>Grallaria spiator</i> . | 37. <i>Merula incompta</i> . |
| 21. <i>Conopophaga browni</i> . | 38. <i>Merula albiventris fusa</i> . |
| 22. <i>Scytalopus latebricola</i> . | 39. <i>Merula gigas cacozela</i> = <i>Turdus gigas</i> . |
| 23. <i>Arremonops caneus</i> = <i>Embernagra conirostris</i> . | 40. <i>Merula phæopyga minuscula</i> . |
| 24. <i>Sycalis browni</i> . | |

The Smith collection, forming the basis of the present paper, contained nearly 3000 specimens, representing 304 species, and adding 105 to the list of positively known Santa Marta birds, which now numbers 388 species. Thus all but 84 of the 388 species are represented in the Smith collection, which also includes, as just said, 105 not previously recorded. In the course of the present paper the following species are described as new, namely :

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| <i>Odontophorus atrifrons</i> . | <i>Attila parvirostris</i> . |
| <i>Myiobius assimilis</i> . | <i>Attila rufipectus</i> . |
| <i>Ochthoeca jesupi</i> . | <i>Myiotherula sanctæ-martæ</i> . |
| <i>Ochthoeca olivacea</i> . | <i>Hylophilus brunneus</i> . |

The Simons and Brown collections were both made in large part in the higher portions of the Sierra Nevada, while much of the Smith collection was gathered near the coast, only a small amount of collecting being done at altitudes above 5000 to 8000 feet. This sufficiently accounts for the absence from the Smith collection of a number of species obtained by Simons and Brown in the higher parts of the Sierra.

As will be seen from the list of species given below, very few water birds have been obtained from the Santa Marta district, neither Simons nor Brown collecting along the coast, and appar-

ently a week in September, 1898, covers the whole time spent by Mr. Smith's collectors on or near the seashore at Cienaga.

While to Mr. Smith is due the credit of organizing and equipping the Expedition and directing its work, he has personally done very little of the actual work of bird collecting, which has been carried on by Mrs. Smith, so well known for her previous work on similar expeditions in Southern Brazil, Mexico, and the lesser Antilles, and who, with Mr. G. H. Hull, appears to have secured and prepared the principal part of the collection of birds. Their further work in the Santa Marta region, if they are not driven out by the disturbed condition of the country, will probably add many more species to the list of Santa Marta birds.

In respect to the faunal relationships of the Santa Marta region, it may be said that while many wide-ranging species common to a large part of tropical America are found here, many of them are represented by geographical forms peculiar to this region, while in the higher parts of the Sierra Nevada occur many distinct species quite unlike their nearest congeners found elsewhere, and belonging for the most part to genera not found in the adjoining low coast region, but which occur in the Cordillera regions of other parts of northern South America. Also it may be noted that many of the species of the list which are abundant at the lower levels, are not recorded from points above 5000 to 6000 feet.

It is further evident that the avifauna of the Bogota region is very different from that of the Santa Marta district, and that also the home of many 'Colombia' species is to be looked for elsewhere than in eastern Colombia. Indeed, a very different set of birds was met with by Wyatt¹ in "the eastern Cordillera of the State of Santander," in the Bucaramanga district, midway between Santa Marta and Bogota.

Unfortunately no field notes are as yet available for publication, but the number of specimens taken of the different species, as here recorded, doubtless indicates to some extent the relative abundance of the species; while the dates, especially for North American migrants, indicate the season of occurrence.

I am indebted to Mr. Bangs for sending me for examination

¹ Notes on Some of the Birds of the United States of Colombia. By Claude W. Wyatt. *Ibis*, 1871, pp. 113-131, 319-335, 373-384. An annotated list of 210 species.

his large series of *Elænea browni* and *E. sororia*, and to Mr. Ridgway for the loan of material for comparison in several of the more difficult groups, and for his opinion on a few species sent to him for examination, as noted below. I am also indebted to Mr. Herbert H. Smith for the use of several hundred duplicates from the Santa Marta collection of birds, the whole collection sent by him to New York having been utilized in the preparation of the present paper. The number of specimens recorded under the different species thus includes the whole number sent.

The principal localities, with their approximate altitudes, visited by Simons and Brown, and by Smith's collectors, are for convenience of reference here listed in alphabetical sequence :

Agua Dulce, coast region, near Santa Marta.

Arehueca, near coast, 3 m. south of Cienaga.

Atanques, alt. 2800 ft. (Simons); 4000 ft. (Salv. & Godm.); about 10 m. north of Valle Dupar.

Bonda, alt. 150-250 ft., on Rio Manzanares, 10 m. east of Santa Marta.

Cacagualito, coast region, alt. 1500 ft.

Chinchicua, Valley of, in Sierra Nevada, alt. 6500 ft..

Chinchicua, Pass of, alt. 11,000 ft.

Chirua, in Sierra Nevada, alt. 4000 ft., Salv. & Godm.; 7000 ft., Bangs.

Chiruqua, Paramo de, or Pass of, 11,000-15,000 ft.

Concha, coast region, near Santa Marta.

Cienaga, coast, 20 m. south of Santa Marta.

El Libano, Sierra Nevada, alt. 6000 ft.

El Lorenzo, Sierra Nevada, alt. 7000-7500 ft.

El Mamon, Sierra Nevada, alt. 8000 ft.

Guallabol, alt. 3000 ft.

Jordan, coast, near Santa Marta.

La Concepcion, alt. 3000 ft.

Las Nubes, Sierra Nevada, alt. 5000 ft.

Macotama, alt. 8000 ft. (Bangs).

Macotama, Paramo de, or Pass of, 11,000-15,000 ft.

Mamatoco, near sea-level, 10 m. from Santa Marta.

Manaure, alt. 2700 ft., 20 m. S. E. of Valle Dupar, at base of western slope of Cordillera de los Andes.

Marocaso, alt. 2000 ft., on Rio Rancheria, southern slope of the Sierra Nevada.

Masinga Vieja, alt. 300 ft., on the Rio Manzanares, about 6 m. east of Bonda.

Minca (misspelled Minea by Simons and by Salvin & Godman), alt. 2000 ft., about 15 m. from the coast at head of Rio Gairu.

- Naranjo**, near coast, alt. 500 ft.
Onaca, near coast, alt. 2500 ft.
Palomina, in Sierra Nevada, alt. 5000 ft.
Paramo, see Chiruqua and Macotama.
Pueblo Viejo, Sierra Nevada, near San Sebastian, alt. 8000 ft.
Quebra Concha, see Concha.
Quebra Mojoba, near coast.
San Francisco, Sierra Nevada, alt. 6000 ft.
San José, Sierra Nevada, alt. 5000 ft.
San Lorenzo, Sierra Nevada, alt. 7500 ft.
San Miguel, Sierra Nevada, alt. 7500 ft.
San Sebastian, Sierra Nevada, alt. 6700 ft.
Santa Cruz, Sierra Nevada, alt. 8000 ft.
Santa Marta, coast, alt. 500 ft. Mr. Brown's collections from this point were made at altitudes of "from 500 to 1500 ft." (*Cf.* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 131.)
Tayanga, coast, about 2 m. north of Santa Marta.
Valencia, alt. ———.
Valparaiso, Sierra Nevada, alt. 4500-5500 ft.
Valle Dupar, on a plain, south of the Sierra Nevada, near the mouth of the Rio Guatapuri.

1. *Crypturus soui* (Hermann.).¹

Crypturus pileatus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Two specimens: Minca, Jan. 19; Bonda, April 6.

2. *Crypturus columbianus* Salvadori.

Crypturus columbianus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 131. Santa Marta.

One specimen, Bonda, Nov. 14.

3. *Tinamus ruficeps* ScL. & Salv.

One specimen, Cacagualito, May 18.

4. *Phalacrocorax vigua* (Vicill.).

One specimen, Bonda, November.

5. *Cancroma cochlearia* Linn.

Two specimens, Minca, ♂ ad., June 29; Bonda, juv., March 21.

¹ = *Crypturus pileatus* (Bodd.) auct. *Cf.* Richmond, Auk, XVII, April, 1900, p. 179.

6. *Nycticorax nycticorax nævius* (Bodd.).

One specimen, ♂ ad., Bonda, June 10.

7. *Tigrisoma salmoni* *Sl. & Salv.*

Tigrisoma salmoni SALV. & GODM. Ibis, 1880, 178. Minca.

One specimen, Valparaiso, April 20.

8. *Butorides striata* (Linn.).

Butorides cyanurus SALV. & GODM. Ibis, 1879, 206 (no locality stated).

One specimen, Bonda, April 7.

9. *Butorides virescens* (Linn.).

One specimen, Bonda, October.

10. *Agamia agami* (Gmel.).

Ardea agami SALV. & GODM. Ibis, 1880, 178. Minca.

Two specimens: Mamatoca, ♂ ad., July 11; Bonda, juv., Dec. 9.

11. [*Porzana albigularis* *Lawr.*

Porzana albigularis BANGS, Proc. Biol. Soc. Wash. XII, 157, 172. Pueblo Viejo and Palomina.]

12. [*Neocrex colombianus* *Bangs.*

Neocrex colombianus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 171. Palomina, one specimen.]

13. *Aramides cajanus* (Müller).

One specimen, Minca, July 6.

14. [*Aramides axillaris* *Lawr.*

Aramides axillaris BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. Chirua.]

15. *Tryngites subruficollis* (Vieill.).

Two specimens, Cienaga, Sept. 12 and 17.

16. *Bartramia longicauda* (Bechst.).

One specimen, Cienaga, Sept. 15.

17. *Actitis macularia* (Linn.).

Actitis macularia BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. La Concepcion, March 23.

Three specimens, Cienaga, Sept. 13 and 14.

18. Totanus solitarius (Wils.).

Rhyacophilus solitarius SALV. & GODM. Ibis, 1880, 178. Santa Marta.
Three specimens, Cienaga, Sept. 10-12.

19. Totanus flavipes (Gmel.).

One specimen, Cienaga, Sept. 12.

20. Micropalama himantopus (Bonap.).

One specimen, Cienaga, Sept. 13.

21. Tringa maculata (Vieill.).

One specimen, Cienaga, Sept. 14.

22. Tringa minutilla (Vieill.).

Eight specimens, Cienaga, Sept. 10-14.

23. Ereunetes pusillus (Linn.).

Two specimens, Cienaga, Sept. 12.

24. Ægialitis collaris (Vieill.).

Two specimens, Cienaga, Sept. 10 and 13.

25. Jacana nigra (Gmel.).

One specimen, Cienaga, Sept. 13.

26. Ortalis garrula (Humb.).

One specimen, Bonda, Nov. 5.

27. Chamæpetes goudoti (Lesson).

Fourteen specimens: El Libano, 13 specimens, April 21-29,
and May 4-20; Valparaiso, 1 specimen, April 17.

28. Penelope argyrotis (Bonap.).

Penelope argyrotis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa
Marta.

Three specimens, El Libano, April 24 and May 11 and 19.

29. Penelope cristata (Linn.).

One specimen, Bonda, Dec. 7.

30. *Crax alberti* Fraser.

Crax alberti BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Three specimens, 1 adult and 2 chicks, Bonda, July 21 and 26, and Naranjo, July.

Young birds in first plumage show little resemblance to the adults, and may be thus described :

Frontlet and broad superciliaries dark rufous, with a similar line running from the angle of the mouth beneath the ear-coverts, which are deep buffy ; top of the head blackish with a median and a broad lateral stripe on each side gray, the gray occupying only the tips of the feathers ; nape blackish, more or less rufous on the median line ; back mixed chestnut and blackish with many buffy-tipped feathers on the anterior portion, and posteriorly a broad white band on each side passes from the middle of the dorsal region to the base of the tail ; tail black, tipped and varied with pale rufous ; wings with the lesser coverts uniform rusty brown, the middle and greater coverts black broadly edged with rufous ; quills black, the primaries broadly edged with rufous, the secondaries conspicuously barred with rufous ; chin, throat, abdomen and thighs buffy white ; breast dark ferruginous on the sides but lighter on the middle line ; bill and feet flesh color. The only resemblance to the adult is the color pattern of the wings, in which the narrow white crossbars in the adult are replaced by broader rufous bars in the young.

31. *Eupsychortyx leucopogon* (Lesson).

Three specimens, Bonda, Jan. 5, Aug. 27, and Oct. 6.

32. *Odontophorus atrifrons*, sp. nov.

Type (and only specimen), No. 73246, ♂. ad., Valparaiso, March 25, 1899 ; coll. H. H. Smith.

Forehead, chin, throat, cheeks and ear-coverts uniform deep black ; whole top of head and crest dark chestnut brown, passing into rufous on the sides of the ear-coverts ; mantle olivaceous gray vermiculated with black ; scapulars with the inner vanes black broadly barred and edged with chestnut, with light shaft-stripes, and central portion of outer vane gray ; lower back olivaceous brown, the rump and upper tail-coverts similar but darker, with a few blotches of black at the tips of some of the feathers ; tail dark brown, indistinctly barred with blackish and freckled with rusty ; wings dark brown, the secondaries freckled and indistinctly barred with rusty, the primaries with broad distinct bars of pale rufous on the outer vanes ; upper breast similar to the mantle, but varied slightly with buffy white, which takes the form of ill-defined apical spots on the lower border of this area ; lower breast ochraceous rufous with indistinct crossbars and shaft-stripes of black ; flanks buffy olivaceous brown, with black crossbars ; lower tail-coverts black barred and tipped with rufous ; bill deep black ; feet dusky horn color. Wing, 130 ; tail, 87 ; tarsus, 44 ; culmen, 17 mm.

This species is readily distinguished by its wholly black forehead, throat and sides of the head, which are without any trace of whitish shaft-lines or other markings.

33. *Geotrygon montana* (Linn.).

One specimen, Bonda, June.

34. *Geotrygon linearis infusca* Bangs.

Geotrygon linearis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 157. Pueblo Viejo.

Geotrygon linearis infusca BANGS, Proc. N. Engl. Zool. Club, I, 108, May 14, 1900. Chirua and La Concepcion.

Seven specimens, 5 adult and 2 juv. (nestlings): Valparaiso, 2 (juv.), May 24 and 25; El Libano, 4 specimens, April 22; San Lorenzo, 1 specimen, May 10.

35. *Leptotila verreauxi* Bonap.

Leptotila verreauxi SALV. & GODM. Ibis, 1880, 178. Minca.

Leptotila verreauxi BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Ten specimens, all from Bonda, taken June —, July 13, Aug. 3, 5 and 16, Oct. 4, Nov. 8 and 21, and Dec. 5.

36. *Claravis pretiosa* (Ferrari-Perez).¹

Four specimens: Minca, Jan. 19; Cacagualito, May 13; Matoca (no date).

37. *Columbigallina passerina granatina* (Bonap.).

Columbigallina passerina pallescens BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Eight specimens, all from Bonda, taken Jan. —, Feb. 23, July 11, Aug. 27, Sept. 13, Oct. 27, and Dec. 1.

38. *Columbigallina rufipennis* (Bonap.).

Chamaepelia rufipennis SALV. & GODM. Ibis, 1880, 178. Santa Marta.

Columbigallina rufipennis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Seventeen specimens: Bonda, 15 specimens, Jan. 10, June 25, July 5, Aug. 5 and 16, Oct. 7, Nov. 4-12; Masinga Vieja, 1 specimen, Sept. 7; Cienaga, Sept. 13.

¹ = *Peristera cinerea* (Temm.) auct.; cf. Oberholser, Proc. Acad. Nat. Sci. Phila., 1899, p. 203.

39. [Scardafella squamosa (Temm.).

Sardafella [sic] *squamosa* SALV. & GODM. Ibis, 1880, 178. Valencia.]

40. Columba speciosa Gmel.

Five specimens, Bonda, Jan. 13, June 6, July 7, Dec. 8.

41. Columba albilineata Gray.

Columba albilineata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 172 (Palomina); *ibid.* Proc. N. Engl. Zool. Club. I, 1899, 75 (San Sebastian and El Mamon).

One specimen, Valparaiso, April 16.

42. Columba gymnophthalma Temm.

One specimen, ♂ juv., Tayanga, June 22, is referred provisionally to this species. Probably more material would show that the mainland form is separable from true *C. gymnophthalma*.

43. Columba rufina (Temm.).

One specimen, Bonda, Aug. 1.

44. [Cathartes aura (Linn.).

Cathartes aura SALV. & GODM. Ibis, 1880, 178. Santa Marta.]

45. Gypagus papa (Linn.).

Gypagus papa BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. El Paramo de Macotama, Chirua, and La Concepcion.

One specimen, Bonda, Aug. 19.

46. Asturina nitida (Lath.).

Four specimens, Bonda, June —, July 22, Aug. 16 and 17 — 3 adults and 1 juv.

47. Rupornis magnirostris (Gmel.).

Asturina magnirostris SALV. & GODM. Ibis, 1880, 176. Santa Marta and Minca.

Rupornis magnirostris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Two specimens, Bonda, April 2 and Nov. 13.

48. Rupornis leucorrhoea (Quoy & Gaim.).

One specimen, ♂ ad., El Libano, May 23. Identified by Mr. Ridgway.

August, 1900.]

49. *Buteo latissimus* (Wilson).

Buteo pennsylvanicus SALV. & GODM. Ibis, 1880, 177. Minca, Jan. 17 and 22.

Buteo latissimus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta, winter.

Seven specimens : Bonda, Feb. 9, March 26, Nov. 13-20, Dec. 22 ; Valparaiso, March 21.

50. *Busarellus nigricollis* (Lath.).

Two specimens, Bonda, March 8 and 29.

51. *Urubitinga zonura* (Shaw).

Three specimens, Bonda, March 11, May 26, and June 27.

52. *Urubitinga anthracina* (Nitzsch).

Urubitinga anthracina SALV. & GODM. Ibis, 1880, 177. Santa Marta.

Four specimens, Bonda, May 25, June 29, Aug. 23, and Sept. 1.

53. *Geranoëtus melanoleucus* (Vieill.).

One specimen, Agua Dulce, April 26.

54. *Lophotriorchis isidorii* (Des Murs).

One specimen, ♀ ad., Bonda, May 27.

55. *Accipiter bicolor* (Vieill.).

Four specimens : Bonda, May 17, Aug. 20, and Dec. — ; Onaca, Jan. 7.

56. *Accipiter tinus* (Lath.).

One specimen, Las Nubes, Dec. 19.

57. *Micrastur semitorquatus* (Vieill.).

Micrastur semitorquatus SALV. & GODM. Ibis, 1880, 177 (Valencia) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132 (Santa Marta).

Two specimens, Bonda, April 3 and Sept. 10.

58. *Micrastur ruficollis* (Vieill.).

Two specimens, Valparaiso, March 17 ; El Libano, April 29.

59. *Geranospizias cærulescens* (Vieill.).

One specimen, Bonda, April 2.

60. Falco rufigularis (Daud.).

Falco rufigularis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. La Concepcion.

One specimen, Minca, June 20.

61. [Tinnunculus sparverius (Linn.).

Tinnunculus sparverius SALV. & GODM. Ibis, 1879, 206; 1880, 177 (Manauare and Valencia, May and June); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 172 (Palomina and San Miguel).]

62. Gampsonyx swainsoni Vigors.

Two specimens, Bonda, Feb. 14 and Dec. 1.

63. Rostrhamus sociabilis (Vieill.).

One specimen, Bonda, Aug. 22.

64. Leptodon cayanensis (Gmel.).

One specimen, Masinga, Aug. 21.

65. Leptodon uncinatus (Temm.).

Two specimens, Bonda, June 20.

66. Ictinea plumbea (Vieill.).

Ictinea plumbea SALV. & GODM. Ibis, 1879, 200. Manauare.

One specimen, Valparaiso, June 6.

67. Herpetotheres cachinnans (Linn.).

Two specimens, Bonda, June 14 and Nov. 28.

68. [Milvago chimachima (Vieill.).

Milvago chimachima SALV. & GODM. Ibis, 1880, 177. Valencia.]

69. Polyborus cheriway (Jacq.).

Polyborus cheriway SALV. & GODM. Ibis, 1880, 177. Valencia.

Five specimens, Bonda, Jan. 11, July 26, Aug. 23, Nov. 19.

70. Syrniium perspicillatum (Latham).

Syrniium perspicillatum BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Three specimens, Bonda, Jan. 7, May —, and Aug. 29. The August specimen is still partly in nestling plumage, the whole

head, nape, throat (not the chin) and upper breast being in the white downy plumage of the young bird.

71. [*Syrnium virgatum* Cassin.]

Syrnium virgatum BANGS, Proc. Biol. Soc. Wash. XII, 1898, 157. Santa Marta,—"one female just emerging from immature plumage, March 21, 1898."

72. *Glaucidium ferox* (Viell.).

Six specimens, Bonda, Jan. 11 and 18, Aug. 18, Oct. 13, and Nov. 30.

73. *Pionus sordidus* (Linn.).

Pionus sordidus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133, 172 (Santa Marta and San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 75 (San Sebastian).

Two specimens, Valparaiso, April 6 and 7.

74. *Pionus menstruus* (Linn.).

Pionus menstruus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Three specimens; Bonda, June 27, and Aug. 3 and 15.

75. [*Amazona amazonica* (Linn.).

Chrysolis amazonica SALV. & GODM. Ibis, 1880, 176. Arihueca.]

76. [*Amazona mercenaria* (Tsch.).

Amazona mercenaria BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. "Two males, from Paramo de Chiruqua, 11,000 feet."

77. *Brotogerys jugularis* (Müller).

Brotogerys tovi SALV. & GODM. Ibis, 1880, 176. Santa Marta.

Brotogerys jugularis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132. Santa Marta.

Thirty-three specimens, all from Bonda, collected Jan. 11, May 10, June 23-30, July 2 and 25-27, Aug. 8, 13 and 23, and Oct. 7.

78. [*Psittacula guianensis* (Swains.).

Psittacula cyanoptera SALV. & GODM. Ibis, 1880, 176. Valle Dupar and Valencia.

79. *Conurus wagleri* Gray.

Conurus wagleri SALV. & GODM. Ibis, 1879, 206 (Atanques); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 172 (Palomina and San Miguel).

One specimen, Valparaiso, March 23.

80. [*Ara chloroptera* Gray.

Ara chloroptera SALV. & GODM. Ibis, 1880, 176 (Valle Dupar); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132 (Santa Marta).]

81. [*Ara militaris* (Linn.).

Ara militaris SALV. & GODM. Ibis, 1880, 176 (Arihueca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 132 (Santa Marta).

One specimen, Bonda, Aug. 11.

82. *Aulacorhamphus lautus* Bangs.

Aulacorhamphus albivittatus SALV. & GODM. Ibis, 1879, 206. Chinchicua, altitude 6500 feet.

Aulacorhamphus lautus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 173 (San Miguel); *ibid.* XIII, 1899, 92 (Chirua and La Concepcion).

Nineteen specimens, collected as follows: Valparaiso, 3 specimens, March 23 and April 12 and 13; San Lorenzo, 1 specimen, May 14; El Libano, 6 specimens, April 25, May 3, 6 and 20, and June 16; Las Nubes, 9 specimens, Dec. 8-14.

83. *Aulacorhamphus calorhynchus* Gould.

Aulacorhamphus calorhynchus SALV. & GODM. Ibis, 1879, 206 (Chinchicua); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134, 158, 172 (Santa Marta, Pueblo Viejo and Palomina).

Fifteen specimens, all from Valparaiso, March and April.

84. *Pteroglossus torquatus* (Gmel.).

Pteroglossus torquatus SALV. & GODM. Ibis, 1880, 175 (Santa Marta and Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134 (Santa Marta).

Three specimens, Bonda, Sept. 2, Nov. 1, and Dec. 16.

85. [*Rhamphastos brevicarinatus* Gould.

Rhamphastos tocard SALV. & GODM. Ibis, 1879, 206. Manaure.

Rhamphastos brevicarinatus SCLATER, Cat. Bds. Brit. Mus. XIX, 1891, 126 (includes the Manaure specimen recorded by Salvin & Godman, *l. c.*); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134, 157 (Santa Marta and Pueblo Viejo).

Two specimens: Bonda, November; Cacagualito, May 14.

[*Rhamphastos carinatus* Swainson.

Rhamphastos carinatus SALV. & GODM. Ibis, 1879, 206. "Manaure (2700 ft.), ♂, 18th May. . . . This is the first South American specimen I have seen, the range of the species being hitherto supposed to be restricted to Central America."

It is to be noted that no specimen of this species is recorded by Sclater (Cat. Bds. Brit. Mus. XIX, 1891, 126, 127) from south of Nicaragua, and only one specimen is recorded under *R. brevicarinatus* from Colombia. It therefore seems probable that the record of *R. carinatus* for Manaure, Santa Marta, U. S. Colombia, was made in error.]

86. *Coccyzus americanus* (Linn.).

Nine specimens, Bonda, Oct. 27 and 31, Nov. 8, 17 and 21.

87. *Coccyzus melanocoryphus* Vieill.

One specimen, Bonda, Aug. 7.

88. *Coccyzus landsbergi* Bonap.

One specimen, Cienaga, September.

89. *Piaya cayana mehleri* (Bonap.).

Piaya cayana SALV. & GODM. Ibis, 1879, 206. Valle Dupar.

Piaya cayana mehleri BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta); *ibid.* Proc. N. Eng. Zool. Club, I, 1899, 76 (San Sebastian).

Nine specimens, all from Bonda, collected as follows: Jan. 13 and 24, Feb. 8, 22 and 24, Aug. 11, 18 and 22, and Sept. 5.

90. *Crotophaga sulcirostris* Swainson.

Crotophaga sulcirostris SALV. & GODM. Ibis, 1880, 175 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

Eleven specimens: Santa Marta, 2 specimens, July 12 and 21; Bonda, Aug. 2, 3, 5 and 23, and Nov. 19. The last two are half-grown fledglings.

91. [*Crotophaga ani* Linn.]

Crotophaga ani BANGS, Proc. Biol. Soc. Wash. XII, 1898, 172 (Palomina, one female).]

92. *Malacoptila mysticalis* Sclater.

Malacoptila mysticalis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

Seven specimens: Onaca, 2 specimens, Dec. 26 and 27; Valparaiso, 3 specimens, April 10 and June 1; Las Nubes, 2 specimens, Nov. 29 and Dec. 21.

93. *Bucco ruficollis* (Wagler).

Bucco ruficollis SALV. & GODM. Ibis, 1879, 205; 1880, 175 (Valle Dupar and Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

Thirty-seven specimens, taken as follows: Santa Marta, 3 specimens, July 10 and 13; Bonda, 34 specimens, Jan. 17-31, Feb. 10-17, June 27 and 28, July 12-26, Aug. 21-30, Sept. 2-8, Oct. 7, Nov. 5, 8 and 21, Dec. 27.

94. *Galbula ruficauda pallida* Bangs.

Galbula ruficauda SALV. & GODM. Ibis, 1879, 205; 1880, 175. Santa Marta and Valle Dupar.

Galbula ruficauda pallida BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133. Santa Marta.

Nine specimens: Cienaga, 1 specimen, September; Bonda, 8 specimens, June 28, Aug. 17 and 29, Oct. 6, Nov. 17 and 29.

95. *Pharomacrus festatus* Bangs.

Pharomacrus fulgidens SALV. & GODM. Ibis, 1879, 205. Valley of Chinchica, 6500 feet.

Pharomacrus festatus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 92. Chirua, altitude 7000 feet.

Three specimens, El Libano, altitude 6000 feet, April 29, May 6 and 18.

96. *Trogon caligatus* Gould.

Trogon caligatus SALV. & GODM. Ibis, 1880, 174. Minca.

Two specimens: Cacagualito, May 26, and Minca, July 27.

97. *Trogon personatus* Gould.

Trogon personatus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 93. Chirua, La Concepcion, and Macotama.

Thirteen specimens: Valparaiso, 7 specimens, March 15-27, April 5, 6 and 19, May 25; Las Nubes, 1 specimen, Dec. 6; El Libano, April 23-26 and Dec. 14.

98. *Momotus subrufescens* Sclater.

Momotus subrufescens SALV. & GODM. Ibis, 1880, 174 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

Twenty-six specimens, all from Bonda, Jan. 2, Feb. 2, 8 and 22, May 11, July 5, 7 and 27, Aug. 3-11 and 23, Oct. 8, Nov. 14-23.

99. *Ceryle torquata* (Linn.).

Ceryle torquata SALV. & GODM. Ibis, 1880, 174 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

One specimen, Bonda, Sept. 8.

100. *Ceryle amazona* (Lath.).

Ceryle amazona BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133. Santa Marta.

Three specimens, Bonda, Feb. 7, July 2, and Aug. 3.

101. *Ceryle americana* (Gmel.).

Ceryle americana SALV. & GODM. Ibis, 1880, 174 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 133 (Santa Marta).

Fifteen specimens: Bonda, 12 specimens, Jan. 12, Feb. 4 and 22, June 28, July 10, Aug. 3 and 4, Sept. 1, Oct. 13, Nov. 15; Cienaga, 3 specimens, Sept. 13-15.

102. *Melanerpes wagleri sanctæ martæ* Bangs.

Centurus tricolor SALV. & GODM. Ibis, 1879, 205; 1880, 174. Santa Marta and Valle Dupar.

Melanerpes wagleri sanctæ-martæ BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134. Santa Marta.

Twenty-five specimens: Santa Marta, 1 specimen, July 12; Bonda, 24 specimens, Jan. 17, Feb. 17, June 21-30, July 5, Aug. 3-21, Oct. 7-11, Nov. 17.

103. *Chrysoptilus guttatus* (Spix).

One specimen, Cienaga, Sept. 15.

104. *Chloronerpes yucatanensis uropygialis* (Cab.).

Chloronerpes yucatanensis uropygialis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 93 (La Concepcion and San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 76 (San Sebastian).

Five specimens, Valparaiso, March 18, April 8, 14 and 19, and June 11.

105. *Ceophlæus lineatus* (Linn.).

Ceophlæus lineatus BANGS, Proc. Biol. Soc. Wash. 1898, XII, 144. Santa Marta.

Two specimens: Minca, June 24, and Valparaiso, May 31.

106. *Campephilus malherbii* Gray.

Campephilus malherbii SALV. & GODM. Ibis, 1879, 205 (Atanques); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134 (Santa Marta).

Seven specimens: Bonda, June, August and October; Valparaiso, March 17 and May 25; El Libano, May 3.

107. *Picumnus cinnamomeus* Wagler.

Two specimens, Bonda, Oct. 1.

108. *Steatornis caripensis* Humb.

One specimen, Bonda, Sept. —

109. *Nyctidromus albicollis* (Gmel.).

Nyctidromus albicollis SALV. & GODM. Ibis, 1880, 174 (Arihueca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 (Santa Marta).

Eight specimens: Santa Marta, 1 specimen, July 14; Bonda, 7 specimens, Jan. 11, Aug. 28, Nov. 4 and 11.

110. [*Antrostomus rufus* (Bodd.).

Antrostomus rufus BANGS, Proc. N. Engl. Zool. Club, I, 1899, 78. San Sebastian, one specimen.]

111. *Chætura spinicauda* (Temm.).

One specimen, Cacagualito, May 11.

112. [*Hemiprocne zonaris* (Shaw).

Hemiprocne zonaris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158. Santa Marta, one specimen.]

113. *Acestrura astreans* Bangs.

Acestrura mulsanti SALV. & GODM. Ibis, 1879, 205. Atanques, 2700 feet. One specimen, ♀ ad.

Mr. Bangs (*l. c.*) thinks this may be the same as his *A. astreans*, which is quite probable.

Acestrura astreans BANGS, Proc. N. Engl. Zool. Club, I, 1899, 76. San Sebastian and El Mamon, 6600 to 8000 feet.

Three specimens, all females or immature males, Valparaiso, June 12 and 14, and Bonda, Sept. 27.

114. [*Rhamphomicron dorsale* Salv. & Godm.

Rhamphomicron dorsale SALV. & GODM. Ibis, 1880, 172, pl. v (Sierra Nevada, 2000 to 9000 feet); BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 94 (Paramo de Chiruqua, altitude 15,000 feet).]

115. [*Oxyopogon cyanolæmus* Salv. & Godm.]

Oxyopogon cyanolæmus SALV. & GODM. *Ibis*, 1880, 172, pl. iv, fig. 2. Sierra Nevada, 10,000 to 14,000 feet.]

116. *Florisuga mellivora* (Linn.).

Mellisuga mellivora SALV. & GODM. *Ibis*, 1880, 172 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 (Santa Marta).

Three specimens: Bonda, Sept. 23 and Oct. 24; Cacagualito, May 14.

117. [*Lafresnaya gayi* (Bourc. & Muls.).

Lafresnaya gayi SALVIN, Cat. Bds. Brit. Mus. XVI, 1892, 329 (San José); BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 94 (Macotama, San Miguel, and Paramo de Chiruqua).]

118. [*Campylopterus phainopeplus* Salv. & Godm.]

Campylopterus phainopeplus SALV. & GODM. *Ibis*, 1879, 202 (San José and Atanques, altitude 4000-5000 feet); *ibid.* 1880, 171, pl. iv, fig. 1 (San Sebastian, altitude 6700 feet)].

119. [*Pygmornis striigularis* (Gould).]

Pygmornis striigularis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 93. La Concepcion.]

120. [*Phaëthornis anthophilus* (Bourc. & Muls.).]

Phaëthornis anthophilus SALV. & GODM. *Ibis*, 1880, 171 (Valle Dupar and Valencia); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 (Santa Marta).]

121. *Phaëthornis longirostris* (Less. & Delattre.).

Phaëthornis longirostris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134. Santa Marta.

Six specimens: Cacagualito, May 18 and 20; Las Nubes, Dec. 22 and 23.

122. *Hylocharis cyanea* (Vieill.).

Hylocharis cyanea BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Six specimens: Bonda, Feb. 10, June 25, July 28, Oct. 8; Cacagualito, May 18; Jordan, May 11.

123. *Floricola longirostris* (Vieill.).

Floricola longirostris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Four specimens: Bonda, Feb. 21; Cacagualito, May 14, 21 and 27.

124. *Leucuria phalerata* Bangs.

Leucuria phalerata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 174 (Macotama, one specimen; altitude 8000 feet); *ibid.* XIII, 1899, 93 (Paramo de Macotama, one specimen; altitude 15,000 feet).

Five specimens: El Libano, altitude 6000 feet, April 25, May 12-14.

Two specimens have the tail wholly pure white; the other three have the apical fourth of the tail blackish.

125. *Helianthea*, sp.

Two specimens, El Libano, April 27 and May 5, kindly identified by Mr. Ridgway as "females of some species of *Helianthea*."

126. *Amizillis*¹ *warszewiezi* (Cab. & Hein.).

Saucerottia warszewiezi SALV. & GODM. Ibis, 1880, 173. Santa Marta and Minca.

Amazilia warszewiezi BANGS, Proc. Biol. Soc. Wash. XII, 135 (Santa Marta); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 78 (San Sebastian).

Twenty-two specimens, all from Bonda and immediate vicinity, taken as follows: Bonda, Jan. 5 and 20-25, June 25-27, July 2-7, Aug. 3-30, Sept. 5-7, Oct. 11 and 24, Nov. 11-16; Minca, July 25-27; Cacagualito, May 20.

127. *Amizillis fuscicaudata* (Frazer).

Amazilia fuscicaudata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Seven specimens: Bonda, Oct. 9 and Nov. 14; Cacagualito, May 7, 16, 20, 21 and 27.

128. *Amizillis*, sp.

One specimen, Bonda, Aug. 16.

¹ Cf. Oberholser, Proc. Acad. Nat. Sci. Phila., 1899, p. 207.

129. [Doleromyia fallax (Bourc.).

Doleromyia fallax SALVIN, Cat. Bds. Brit. Mus. XVI, 1892, 177.

Two specimens are recorded from "Northern Colombia (*F. Simons*)," but the species is not included in Salvin & Godman's 'Ibis' papers on Mr. Simons's collection.]

130. Anthocephala floriceps (Gould).

Anthocephala floriceps. BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 (Pueblo Viejo); *ibid.* XIII, 1899, 94 (Pueblo Viejo, Santa Cruz, La Concepcion, San Francisco, and Chirua).

One specimen, Valparaiso, April 6.

131. Metallura districta Bangs.

Metallura smaragdinicollis? SALV. & GODM. *Ibis*, 1879, 205 (Valley of Chinchicua, one specimen, ♂ juv.); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 194 (Palomina and San Miguel, two females).

Metallura districta BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 94. Pueblo Viejo, La Concepcion, San Miguel, Paramo de Macotama, and Paramo de Chirua.

Thirteen specimens: El Libano, 12 specimens, April 22-27, and May 1-12; Valparaiso, 1 specimen, March 7.

132. Chrysolampis moschitus (Linn.).

Twelve specimens, Bonda, June 24-28, July 1, 11 and 14.

133. Petasophora delphinæ (Less.).

Petasophora delphinæ SALV. & GODM. *Ibis*, 1880, 173 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 (Santa Marta).

Seven specimens, Bonda, Sept. 23-27.

134. Petasophora cyanotis (Bourc. & Muls.).

Petasophora cyanotis SALV. & GODM. *Ibis*, 1880, 173 (Minca and San Sebastian); BANGS, Proc. N. Engl. Zool. Club, I, 1899, 76 (San Sebastian and El Mamon).

Two specimens: Valparaiso, March 8; El Libano, April 25.

135. [Petasophora iolata Gould.

Petasophora anais SALV. & GODM. *Ibis*, 1880, 173 (San Sebastian and Sierra Nevada, 9200-10,000 ft.).

Petasophora iolata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 173 (Macotama and San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 76 (San Sebastian and El Mamon).]

136. *Lampornis violicauda* (Bodd.).

Lampornis violicauda BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Eight specimens: Bonda, 5 specimens, Jan. 23 and 25, Feb. 23, Aug. 23, and Nov. 14; Cacagualito, May 16; Masinga, Nov. 15.

137. *Hypuroptila buffoni* (Less.).

Chalybura buffoni SALV. & GODM. Ibis, 1879, 205 (Manaure); *ibid.* 1880, 171 (Minca).

Hypuroptila buffoni BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 (Santa Marta).

Forty specimens: Bonda, 11 specimens, Jan. 10, Feb. 9, March 3, July 1, Aug. 12-22, Oct. 10, Nov. 8 and 23; Minca, 9 specimens, June 23, July 25-Aug. 3; Jordan, 1 specimen, May 11; Cacagualito, 18 specimens, May 10-27; Valparaiso, 2 specimens, June 8 and 10.

138. *Thalurania columbica* (Bourc.).

Thalurania columbica SALV. & GODM. Ibis, 1880, 172 (Minca and San José); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 and 174 (Santa Marta, San Miguel, and Palomina).

Forty-four specimens: Bonda, 2 specimens, Jan. 1 and Aug. 19; Onaca, 4 specimens, Jan. 6 and Dec. 28 and 29; Minca, 3 specimens, June 6, July 29, Aug. 4; Cacagualito, 1 specimen, May 27; Las Nubes, 7 specimens, Dec. 1-21; Valparaiso, 15 specimens, March 7, April 5, June 6-July 1; El Libano, 9 specimens, April 23-29, May 14.

139. *Panychlora russata* Salv. & Godm.

Panychlora, sp., SALV. & GODM. Ibis, 1879, 205; 1880, 174. Manaure and San Sebastian.

Panychlora russata SALV. & GODM. Ibis, 1881, 597 (San Sebastian and San José); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 174 (San Miguel and Palomina); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 76 (San Sebastian and El Mamon).

Two specimens, Bonda, Feb. 2 and July 2.

140. *Chlorostilbon hæberlini* (Reich.).

Chlorostilbon, sp., SALV. & GODM. Ibis, 1880, 174. Valencia, one female.

Four specimens, Bonda, July 8, Aug. 16, Oct. 11, and Nov. —.

141. [*Glaucis hirsuta* (Gmel.).

Glaucis hirsuta BANGS, Proc. Biol. Soc. Wash. XII, 1898, 134. Santa Marta].

142. *Milvulus tyrannus* (Linn.).

Milvulus tyrannus SALV. & GODM. Ibis, 1879, 202 (Manaure and San Sebastian); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 and 176 (Santa Marta and Palomina); *ibid.* Proc. N. Engl. Zool. Club, I, 1900, 71 (San Sebastian).

Fifteen specimens: Bonda, Jan. 23-31, Feb. 4 and 22; Valparaiso, May 29; Cienaga, Sept. 8-14.

143. *Tyrannus melancholicus satrapa* (Licht.).

Tyrannus melancholicus SALV. & GODM. Ibis, 1879, 202. Atanques.

Tyrannus melancholicus satrapa BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 and 176 (Santa Marta, Palomina, and Macotaina); Proc. N. Engl. Zool. Club, I, 1900, 79 (San Sebastian).

Thirty-seven specimens: Bonda, 26 specimens, Jan. 6-Feb. 14, June 23-29, July 6-11, Sept. 1-8, Oct. 11, Nov. 14, Dec. 30; Minca, 4 specimens, June 28, July 5, 24, and Aug. 1; Onaca, 2 specimens, Dec. 31, Jan. 6; Cacagualito, 4 specimens, May 13-29; Valparaiso, 1 specimen, April 15.

144. *Tyrannus griseus* Vieill.

Tyrannus griseus SALV. & GODM. Ibis, 1880, 125. Santa Marta, April 3.

One specimen, Bonda, March 24.

145. [*Tyrannus tyrannus* (Linn.).

Tyrannus pipiri SALV. & GODM. Ibis, 1880, 125. Santa Marta, April 4.]

146. *Myiarchus crinitus* (Linn.).

Myiarchus crinitus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta.

Five specimens, Bonda, Nov. 22, Dec. 5, Jan. 21, Feb. 10 and 27.

147. *Myiarchus ferox* (Gmel.).

Myiarchus tyrannulus SALV. & GODM. Ibis, 1880, 125 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta.

Eight specimens, Bonda, Jan. 10 and 14, Feb. 18 and 22, June 27 and 29, Oct. 6, Nov. 25.

148. *Myiarchus erythrocerus* *ScL. & Salv.*

Myiarchus erythrocerus SALV. & GODM. Ibis, 1880, 125 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 (Santa Marta).

Fifty-five specimens, taken as follows: Bonda, 51 specimens, representing nearly every month of the year; Santa Marta, 3 specimens, July 12-14; Cacagualito, 1 specimen, May 19.

149. *Myiarchus nigriceps* *Sclater.*

Myiarchus nigriceps SALV. & GODM. Ibis, 1879, 125 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137, 158 and 176 (Santa Marta, Pueblo Viejo, Palomina, and Macotama).

Sixteen specimens: Minca, 9 specimens, May 30, June 19, July 26-31, Aug. 4; Onaca, 2 specimens, Dec. 28 and 29; Las Nubes, 1 specimen, Dec. 20; Cacagualito, 4 specimens, May 10, 20 and 28, and June 30; Valparaiso, 2 specimens, April 7 and 10.

150. *Nuttallornis borealis* (*Swains.*)

Contopus borealis SALV. & GODM. Ibis, 1880, 125. Minca.

Nuttallornis borealis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 98. La Concepcion, March 8.

One specimen, San Lorenzo, May 13.

151. *Contopus virens* (*Linn.*)

Contopus virens SALV. & GODM. Ibis, 1880, 125. Santa Marta.

Two specimens: Valparaiso, April 19; Cacagualito, May 10.

152. *Contopus brachytarsus* (*Sclater.*)

Contopus brachytarsus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta.

Six specimens: Minca, July 31 and Aug. 3; Cacagualito, May 12, 14 and 17.

153. *Empidonax virescens* (*Vieill.*)

Empidonax virescens BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta, winter.

Four specimens: Bonda, Nov. 16; Onaca, Dec. 28 and Jan. 5; Valparaiso, March 21.

154. *Empidonax ridgwayi* Sclater.

Six specimens, Bonda, Aug. 27, Sept. 6-8, Oct. 7-24.

155. *Empidochanes cabanisi* (Léotaud).¹

Five specimens: Concha, Aug. 18; Bonda, Sept. 6, Jan. 20, Feb. 27; Valparaiso, May 16.

156. [*Pyrocephalus rubinus* (Bodd.).

Pyrocephalus rubineus SALV. & GODM. Ibis, 1879, 202 (Valle Dupar); *ibid.* 1880, 125 (Valencia).]

157. *Myiobius erythrurus* Cabanis.

One specimen, Jordan, May 11.

158. *Myiobius assimilis*, sp. nov.

Myiobius vieillotioides SALV. & GODM. Ibis, 1880, 125 (San Sebastian).
Not *M. vieillotioides* Lafr.

Myiobius vieillotioides BANGS, Proc. Biol. Soc. Wash. XII, 1898, 176 (San Francisco). Not *M. vieillotioides* Lafr.

Type, No. 72629, ♂ ad., Valparaiso (altitude 5500 feet), March 7, 1899; coll. H. H. Smith.

Above deep rufous slightly darker on pileum and nape; concealed crest deep golden; rump band deep cinnamon rufous, much lighter than the back, but much deeper than in *M. vieillotioides*; below deep rufous, strongest over the breast and fore neck, lighter on the abdomen and lower tail-coverts; chin dusky ashy suffused with rufous; tail deep rufous like the back, shaded with dusky for about the apical sixth, the dusky portion forming an ill-defined sub-terminal band, the feathers being tipped with deep rufous; the wing-coverts rufous with blackish bases, the dusky portion almost wholly concealed by the broad rufous tips; quills, including outer primaries, rufous externally, the primaries passing into dusky apically. Length, 133 mm.; wing, 69; tail, 60; tarsus, 13; culmen, 15.

The female does not differ appreciably from the male; young birds differ from the adult chiefly in wholly lacking the bright yellow crown patch.

Myiobius assimilis is most nearly related to *M. vieillotioides* Lafr, the type locality of which is Caracas, Venezuela, but differs from it in being deeper rufous throughout, with very little of the dusky shading on the pileum and nape so characteristic of *M. vieillotioides*, and in having the tail almost wholly rufous instead of mainly dusky, and with much less black on the remiges.

This species is represented by 30 specimens, collected as follows: Valparaiso, 13 specimens, March 7-19 and April 4-15;

¹ Cf. Chapman, this Bulletin, VI, 1894, 42.

El Libano, 4 specimens, April 27 and 28, and May 6 and 12 ; Las Nubes, 13 specimens, Nov. 10 and 28, and Dec. 10-22. All were collected at points between 5000 and 6000 feet elevation. This series is remarkably uniform in size and coloration.

Four specimens from Las Palmales, Venezuela (F. W. Urich), representing true *M. vieillotoides*, differ very markedly from the Santa Marta series.

159. *Myiobius navius* (Bodd.).

Myiobius navius BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 and 178. Pueblo Viejo and Palomina.

One specimen, Minca, July 24.

160. *Muscivora mexicana* Sclater.

Muscivora mexicana SALV. & GODM. Ibis, 1879, 202 (Manaure); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 (Santa Marta).

Ten specimens: Bonda, 6 specimens, Oct. 11, Nov. 3, 8, 18 and 24, Minca, June 3, and July 31; Cacagualito, May 22.

161. *Megarhynchus pitangua* (Linn.).

Megarhynchus pitangua SALV. & GODM. Ibis, 1879, 201 (Atanques); 1880, 125 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 and 176 (Santa Marta and Palomina).

Seventeen specimens: Bonda, Jan. 23-26, Feb. 22, June 23-29, July 3, 9 and 13, Aug. 16 and 27, Sept. 4, Nov. 12; Minca, June 23.

162. *Myiodynastes audax nobilis* (Sclater).

Myiodynastes audax SALV. & GODM. Ibis, 1879, 201. Manaure.

Myiodynastes nobilis SCLATER, Cat. Bds. Brit. Mus. XIV, 1888, 184. Minca, Valle Dupar, Manaure, and Santa Marta (the latter the type locality).

Myiodynastes audax nobilis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 and 176 (Santa Marta and Palomina).

Twenty-seven specimens, taken as follows: Bonda, 18 specimens, Jan. 16 and 26, Feb. 22, May 10, June 18-July 2, Aug. 5 and 18, Sept. 4, Nov. 17, Dec. 5-12; Minca, 4 specimens, June 22, July 21 and 31; Cacagualito, 5 specimens, May 12-26, June 3.

August, 1900.]

163. *Myiodynastes chrysocephalus* (Tsch.).

Myiodynastes chrysocephalus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 and 176. Pueblo Viejo and San Francisco.

Ten specimens: El Libano, May 6; Valparaiso, March 11, 17 and 29, April 13, and May 31; Las Nubes, Dec. 8-20.

164. *Pitangus derbianus rufipennis* (Lafr.).

Pitangus derbianus SALV. & GODM. Ibis, 1879, 201. Valle Dupar.

Pitangus derbianus rufipennis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta.

Four specimens: Bonda, June 29, July 15, Sept. 7; Santa Marta, July 14.

165. *Pitangus lictor* (Licht.).

One specimen, Cacagualito, May 14.

166. *Rhynchocyclus sulphureus* (Spix).

Rhynchocyclus sulphureus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 and 176. Santa Marta and Palomina.

Three specimens: Minca, Aug. 3; Bonda, Nov. 18 and Jan. —.

167. *Rhynchocyclus flaviventris* (Wied).

Rhynchocyclus flaviventris SALV. & GODM. Ibis, 1880, 124 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 (Santa Marta).

Thirty-six specimens, all collected at Bonda, except one, as follows: Jan. 11-27, Feb. 2-17, July 1-11 and 14, Aug. 10-17, Sept. 7, Oct. 12 and 13, Nov. 5-28; Dec.—; Cacagualito, May 24.

168. *Rhynchocyclus æquinoctialis* (Sclater).

Two specimens, Onaca, Dec. 28 and 29.

169. *Myiozetetes texensis colombianus* (Cab. & Hein.).

Myiozetetes texensis colombianus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 and 176. Santa Marta and Palomina.

Nine specimens: Bonda, Jan. 9 and 19, and Oct. 28; Minca June 22; Santa Marta, July 15; Cacagualito, May 5 and 11.

170. Sublegatus glaber *ScI. & Salv.*

Sublegatus glaber WYATT, Ibis, 1871, 333 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 (Santa Marta).

Two specimens, Bonda, Jan. 31, June 21.

171. [Sublegatus platyrhyncha *ScI. & Salv.*

Sublegatus incanescens SALV. & GODM. Ibis, 1880, 124 (Minca.)

172. Legatus albicollis (*Vicill.*).

Legatus albicollis SALV. & GODM. Ibis, 1880, 124. Minca.

Eleven specimens: Bonda, June 22 and 27, and Aug. 5 and 22; Minca, June 22, July 22 and 31; Jordan, May 11.

173. Elænea pagana (*Licht.*).

Elænea pagana SALV. & GODM. Ibis, 1880, 124 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 (Santa Marta); Proc. N. Engl. Zoöl. Club, I, 1900, 79 (El Mamon).

Twenty specimens: Bonda, 13 specimens, Jan. 14 and 31, Feb. 7-11 and 27, May 11, July 5, and Aug. 22; Minca, July 26 and 27; Onaca, Jan. 7; Santa Marta, July 10-13; Cacagualito, May 24 and June 3.

174. Elænea pagana sororia *Bangs.*

Elænea sororia BANGS, Proc. Biol. Soc. Wash. XII, 1898, 175. Palomina and San Miguel.

Eleven specimens: Bonda, Jan. 31, Feb. 11 and 27, and July 11; Minca, Jan. 7 and July 27; Santa Marta, July 10-13.

Elænea sororia Bangs is very closely related to *E. albiceps*, with which it appears to intergrade, as does *E. albiceps* with *E. pagana*.¹

175. Elænea browni *Bangs.*

Elænea browni BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 and 175 (Pueblo Viejo and San Miguel); *ibid.* Proc. N. Engl. Zoöl. Club, I, 1900, 78 (San Sebastian and El Mamon).

Twelve specimens: El Lorenzo (alt. 7000 ft.), May 12 and 13; El Libano (alt. 6000 ft.), April 25 and May 21; Valparaiso (alt. 5500 ft.), April 1-5.

¹ See this Bulletin, II, 1889, pp. 183-208.

Also a specimen collected at Minca, July 25, and another at Bonda, Feb. 3, seem referable here. All the specimens I have seen, including most of Mr. Bangs's series, that have been taken above 5000 feet altitude, prove referable to this very well marked form.

176. *Myiopagis placens* (d'Orb. & Lafr.).

Myiopagis placens BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Four specimens: Bonda, Feb. 10, Sept. 18 and Nov. 5; Minca, Aug. 2.

177. *Myiopagis gaimardi* (d'Orb.).

Myiopagis macilvainii BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Fifteen specimens, Bonda, Jan. 21-23, June 30, Aug. 1-26, Sept. 5, Oct. 13, Nov. 17, Dec. 12.

178. *Tyranniscus nigricapillus* (Lafr.).

Tyranniscus nigricapillus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 98. La Concepcion and Chirua.

Four specimens: El Libano, April 5, 25, and May 14; San Lorenzo, May 12.

179. *Tyranniscus griseiceps* ScL. & Salv.

Tyranniscus griseiceps BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Two specimens, Minca, June 18 and Aug. 3.

180. *Tyranniscus chrysops* (Sclater).

Tyranniscus chrysops SALV. & GODM. Ibis, 1880, 124 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 175 (Palomina).

Four specimens, Minca, July 24 and 29 and Aug. 2 and 4.

181. *Tyrannulus elatus* (Lath.).

Two specimens, Bonda, Feb. 4 and Aug. 16.

182. *Ornithion pusillum* (Cab. & Hein.).

Ornithion pusillum BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Four specimens, Bonda, Feb. 2, Aug. 30 and 31, Sept. 10.

183. *Ornithion inerme* Hartl.

Four specimens, Bonda, Jan. 20, Aug. 8 and 14, and Sept. 1.

184. *Myiopatis semifusca* Sclater.

Phyllomyias semifusca SALV. & GODM. Ibis, 1879, 201. Atanques.

Myiopatis semifusca BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Fifty-six specimens, all from Bonda except one, collected as follows: Jan. 10, 18 and 27, Feb. 2, 4, 11 and 27, May 19, July 7, 9, 11 and 13, Aug. 11, 15, 16, 25-29, Sept. 5-8, Oct. 4, 12, 13, 27, Nov. 11, 19; Cacagualito, May 24.

185. [*Myiopatis montensis* Bangs.]

Myiopatis montensis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 97. Macotama, altitude 9000 feet, to Paramo de Chiriqua, altitude 12,000 feet.]

186. *Leptopogon amaurocephalus* Cabanis.

Two specimens, Bonda, Dec. 12 and Jan. 13.

These specimens agree very closely with examples from southern Brazil (Rio de Janeiro and Matto Grosso), and are referable here rather than to *L. amaurocephalus pileatus* (Sclater).

187. *Mionectes olivaceus* Lawr.

Mionectes olivaceus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158. Pueblo Viejo.

Twenty-six specimens: Minca, 1 specimen, July 24; Onaca, 1 specimen, Dec. 31; Valparaiso, 20 specimens, March 10-May 26; El Libano, 4 specimens, April 22 and May 5-9.

188. *Mionectes oleagineus* (Licht.).

Mionectes oleagineus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Twenty-four specimens: Bonda, 20 specimens, Jan. 10-28, Feb. 11 and 14, Aug. 23-30, Sept. 3, Oct. 4-13, Nov. 9-25; Minca, 2 specimens, Jan. 19 and July 27; Cacagualito, May 12-20.

189. [*Serpophaga cinerea grisea* (Lawr.).

Serpophaga cinerea grisea BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 97. Chirua, San Miguel, and La Concepcion.]

190. [*Hapalocercus paulus* Bangs.

Hapalocercus paulus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 96. Chirua, San Miguel, and La Concepcion.]

191. *Colopterus pilaris* Cabanis.

Colopterus pilaris SALV. & GODM. Ibis, 1880, 124 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136 (Santa Marta).

Twenty-one specimens, collected as follows: Bonda, 17 specimens, Jan. 11-21, Feb. 3-18, Aug. 8, 13 and 22, Nov. 3 and 10; Minca, 1 specimen, July 29; Cacagualito, 3 specimens, May 10-28.

192. *Euscarthmus granadensis* (Hartl.).

Euscarthmus granadensis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 98. La Concepcion.

One specimen, El Libano, May 6.

193. *Euscarthmus impiger* Sc. & Salv.

Euscarthmus impiger BANGS, Proc. Biol. Soc. Wash. XII, 1898, 136. Santa Marta.

Twenty-one specimens: Bonda, Jan. 12-27, Feb. 3, 8, 21 and 25, Aug. 19-22, Sept. 4, Oct. 9 and 21, and Dec. 19; Cacagualito, May 16.

194. *Todirostrum cinereum* (Linn.).

Two specimens, Cienaga, Sept. 9.

195. *Todirostrum nigriceps* Sclater.

Todirostrum nigriceps BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Four specimens, Bonda, July 14, Aug. 16 and 31, and Nov. 21.

196. *Todirostrum schistaceiceps* Sclater.

Todirostrum schistaceiceps BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135. Santa Marta.

Five specimens, Bonda, Jan. 11-13, Feb. 3, and Aug. 1.

197. [*Platyrhynchus albogularis* Sclater.

Platyrhynchus albogularis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 96. La Concepcion, "one female."]

198. *Machetornis rixosa* (Viell.).

One specimen, Cacagualito, May 28.

199. *Fluvicola pica* (Bodd.).

Two specimens, Cienaga, Sept. 8 and 9.

200. *Sayornis cineracea* (Lafr.).

Sayornis cineracea SALV. & GODM. Ibis, 1879, 201 (San José); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 135 and 174 (Santa Marta and San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1900, 78 (San Sebastian).

Two specimens, Cacagualito, June 1, and Onaca, Dec. 27.

201. [*Ochthoeca poliogastra* Salv. & Godm.]

Ochthoeca poliogastra SALV. & GODM. Ibis, 1880, 123 (Sierra Nevada de Santa Marta, type locality); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 174 (Macotama); *ibid.* XIII, 1899, 96 (Sierra Nevada, "at all stations between 9000 and 12,000 feet).

Probably not found much below 9000 feet, as it was not taken by Mr. Smith's collectors.]

202. *Ochthoeca jesupi*,¹ sp. nov.

Type, No. 72727, ♀ ad., San Lorenzo, altitude 7000 feet, May 12, 1899; coll. H. H. Smith.

Above olive, with a slight tinge of dusky on the head; clear olive on nape and anterior part of back, passing into brownish olive on the lower back, rump and upper tail-coverts; wings and tail dusky, the feathers narrowly edged with olive on the tail and with brownish olive on the wings; greater coverts narrowly tipped with brownish, forming a barely recognizable wing-bar; superciliaries and a narrower frontal band yellow, the superciliaries broad in front of the eyes, much narrower behind the eyes; lores blackish; ear-coverts dusky tinged with olive; below throat and breast greenish yellow, passing into clear strong yellow over the abdomen and crissum; flanks olive tinged more or less with yellow. Bill black, feet horn color. Wing, 55 mm.; tail, 49; tarsus, 17; culmen, 9.

While *Ochthoeca jesupi* is very distinct from any other described species of the genus it finds its nearest ally in *O. gratiosa* Sclater from Ecuador, from which it differs in being olive instead of brown above, with rather yellower under parts, narrower frontal

¹ Named in honor of Morris K. Jesup, Esq., President of the American Museum of Natural History, to whom the Museum is indebted for the fine collection of Colombian birds of which this species forms a part.

band and superciliaries, and in the absence of well-defined wing-bars. It is also somewhat smaller, as compared with Bogota specimens identified as *O. gratiosa* by Dr. Sclater.

This species is represented by four specimens, taken as follows: San Lorenzo, altitude 7000-7500 feet, May 12 and 13; El Libano, altitude 6000 feet, May 3; Valparaiso, altitude 5500 feet, March 8.

203. *Ochthœca olivacea*, sp. nov.

Type, No. 72728, ♂ ad., Valparaiso, altitude 5500 feet, April 14, 1899; coll. H. H. Smith.

Above dark clear greenish olive, blackish on the head, fading on the hind head into the uniform deep greenish olive of the rest of the upper surface; wings and tail dusky, the latter strongly edged with olive; wing-coverts and outer edge of secondaries, except basally, broadly edged with greenish yellow; primaries 2-5 similarly edged for the proximal half of their length, the others wholly black externally, like the proximal third of the secondaries, forming a conspicuous wing pattern of black and light greenish yellow; bend of wing and under coverts bright greenish yellow; frontal band and superciliaries clear white; sides of head grayish white, except a small black loreal spot; ear-coverts dusky; below throat and fore neck white or greenish white; breast and sides gray with an olive tinge, slightly flammulated with yellow; abdomen and crissum greenish yellow. Bill and feet deep black. Wing, 54 mm.; tail, 46; tarsus, 18; culmen, 14.

Ochthœca olivacea bears a general resemblance to *O. diademata*, its nearest ally, but differs from it in having the frontal band and superciliaries clear white instead of yellow, and in the rump being deep olive green like the back instead of rufescent. It is represented by five specimens, all taken at Valparaiso, April 5 and 14, 1899.

204. *Ochthodiæta pernix* Bangs.

Ochthodiæta pernix BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 95. Macotama, one specimen.

One specimen, San Lorenzo, May 12.

205. [*Myiotheretes striaticollis* Sclater.

Myiotheretes striaticollis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 174 (Macotama); Proc. N. Engl. Zool. Club, I, 1900, 78 (El Mamon.)]

206. [*Heliochera rubrocristata* (d'Orb. & Lafr.).

Heliochera rubrocristata SCLATER, Cat. Bds. Brit. Mus. XIV, 1888, 390 (Sierra Nevada de Santa Marta, coll. by Simons); BANGS, Proc. Biol. Soc.

Wash. XIII, 1899, 98 (Paramo de Chiruqua and Paramo de Macotama, 11,000 to 15,000 feet).]

207. *Attila parvirostris*, sp. nov.

Type, No. 72656, Minca, June 5, 1899; coll. H. H. Smith.

Above ferrugineous brown, front and lores whitish; narrow blackish shaft-lines on forehead only; rump ochraceous yellow; tail bright ferrugineous; wings blackish, the primaries slightly edged with pale rufous, the secondaries and median and greater coverts broadly edged with deep rufous, forming two conspicuous wing-bars on the coverts; inner wing-coverts and axillars pale ochraceous, as are the inner edges of the secondaries, fading to pale buffy white on the basal portion of the primaries; chin and throat whitish; breast and sides of abdomen olivaceous, the feathers broadly centered with dusky and edged with greenish yellow; middle of abdomen white faintly tinged with yellow; flanks ochraceous; crissum and under tail-coverts pale yellow; bill, in the type, deep black; feet horn color. Wing, 85 mm.; tail, 70; tarsus, 22; culmen, 21.

In general coloration this species is a miniature of *A. citreopygius*, but besides being very much smaller it lacks the strong black striations on the head and throat of that species, and has a more olivaceous breast. The difference in size is striking, the bill of *A. citreopygius* being twice as large as that of *A. parvirostris*, while the length of the wing in *A. citreopygius* is 93 mm. as against 85 mm. in *A. parvirostris*. It is also much smaller than *A. sclateri*, and differs from it strikingly in color.

In addition to the type from Minca, I refer doubtfully to this species two specimens from Valparaiso, taken March 10 and 17, which differ in having the bill horn color, and in having very little olivaceous below, the breast in one specimen being gray slightly tinged with olivaceous, and in the other gray with a brownish tinge; the tail in both is dusky rufous brown instead of ferrugineous. The difference may be seasonal, but I suspect it is specific; it seems, however, better to await further material before deciding.

208. *Attila rufpectus*, sp. nov.

Type, and only specimen, No. 71183, Las Nubes, altitude 5000 feet, Dec. 1, 1898; coll. H. H. Smith.

Above dark ferrugineous brown; front and superciliaries pale cinnamon rufous, with narrow blackish shaft-streaks formed by the black bristly feather tips; rump ochraceous; wings blackish, the median and greater coverts and the secondaries edged with dull brownish ferrugineous; inner coverts, axillars, and inner border of secondaries buffy ochraceous, fading to pale rufous on the basal

portion of the primaries; tail dusky rufous brown, like the back; chin and upper throat pale buffy white, with narrow black shaft-streaks formed by the bristly feather tips; breast dull rufous flammulated with darker; rest of lower parts including crissum, very pale rufous, rather stronger on the flanks; bill and feet horn color. Wing, 83 mm.; tail, 75; tarsus, 23.5; culmen, 22.

Attila rufuspectus is a near ally of *A. spadiceus* of Guiana and Brazil, resembling it both in size and general coloration, from which it may prove to be only subspecifically separable. It is apparently nearer this than to *Attila flammulatus* Lafresnaye, said to have come from "Colombia," and the only species of *Attila* heretofore attributed to Colombia. Although the type and only known specimen of *A. rufuspectus* differs widely from Lafresnaye's description of *A. flammulatus*, further material may show that Lafresnaye's name will have precedence.

In this connection I may add that *Attila cinnamomeus* Lawrence, from Mazatlan, Mexico, of which an authentic example is before me, belongs to the same group as the present species but differs in its wholly white under parts, flammulated on the breast and fore neck with dark ashy.

209. *Pachyrhamphus cinereiventris* Sclater.

Pachyrhamphus niger SALV. & GODM. Ibis, 1880, 169 (not of Spix). Santa Marta.

Pachyrhamphus cinereiventris SCLATER, Cat. Bds. Brit. Mus. XIV, 1888, 344 (includes the Simons specimens collected at Santa Marta, recorded by Salvin & Godman, *l. c.*).

Eighteen specimens: Bonda, 16 specimens, June 21, July 5, Aug. 1-24, Sept. 6, Oct. 13, 24 and 27, and Nov. 3; Cienaga, 1 specimen, Sept. 14; Valparaiso, 1 specimen, April 1.

These, except the Valparaiso specimen, are practically topotypes of the species, as are also the Simons specimens, recorded as *P. niger* by Salvin & Godman (*l. c.*).

210. *Hadrostomus homochrous* Sclater.

Two specimens, Cacagualito, May 12, and Bonda, without date.

211. *Tityra semifasciata* Cabanis.

Tityra personata SALV. & GODM. Ibis, 1880, 169. Minca.

Tityra semifasciata SCLATER, Cat. Bds. Brit. Mus. XIV, 1888, 330 (includes the Minca specimen recorded by Salvin & Godman, *l. c.*; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 (Pueblo Viejo).

Seven specimens : Minca, June 23 and July 22 ; Cacagualito, June 3 ; Valparaiso, May 27 and June 10.

212. [*Tityra albitorques* Dubus.

Tityra albitorques SALV. & GODM. Ibis, 1880, 169. Valencia.]

213. *Heteropelma veræpaci* Sclater.

Six specimens : Bonda, 4 specimens, Feb. 9, and May 8 ; Cacagualito, 2 specimens, May 20 and 21.

These specimens are not distinguishable from Central American examples of this species.

A young specimen in nestling plumage has the head dull rufous brown, lighter and redder than the back, which differs from that of the adult in being slightly more rufescent. The plumage below is peculiarly soft and woolly, and strongly rufescent instead of olive as in the adult.

214. *Pipreola auripectus decora* Bangs.

Pipreola auripectus decora BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 98. Chirua.

Fourteen specimens : Valparaiso, 11 specimens, March 27-April 14, and June 13 ; El Libano, 3 specimens, May 5-11.

215. *Manacus manacus abdivitus* Bangs.

Chiromacharis manacus SALV. & GODM. Ibis, 1880, 169. Minca.

Manacus manacus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137. Santa Marta.

Manacus manacus abdivitus BANGS, Proc. N. Engl. Zool. Club, I, 1889, 35.

Thirty-four specimens, taken as follows : Bonda, 10 specimens, Jan. 5-26, Nov. 23, Dec. 12 ; Minca, 9 specimens, Jan. 18 and 19, July 5 and 28, Aug. 1, and Nov. 24 ; Cacagualito, 8 specimens, May 7-25 ; Donama, 2 specimens, Dec. 22 ; Masinga Vieja, 3 specimens, Nov. 23 and 25 and Feb. 9 ; Jordan, 1 specimen, May 11.

216. *Chiroxiphia lanceolata* (Wagler).

Chiroxiphia lanceolata SALV. & GODM. Ibis, 1879, 202 (Manauere) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 (Santa Marta).

Forty-two specimens : Bonda, 23 specimens, Feb. 9-21, May

8-10, July 2, 6, 9 and 27, Aug. 2-25, Sept. 5, Oct. 8, Nov. 1-23 ;
Minca, 1 specimen, Aug. 3 ; Cacagualito, 18 specimens, May
5-27.

217. *Pipra auricapilla* (Linn.).

Pipra auricapilla SALV. & GODM. Ibis, 1880, 169 (Minca) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 137 (Santa Marta).

Twenty-eight specimens, as follows : Bonda, Jan. 7-31, Oct. 24, Nov. 24 ; Onaca, Dec. 30-Jan. 7 ; Minca, Nov. 2 and 24 ; Agua Dulce, April 12 ; Las Nubes, Dec. 2, 22 and 30 ; Valparaiso, March 21, April 7, May 21.

218. *Dendrocolaptes validus* Tschudi.

Eleven specimens : Valparaiso, March 7, April 5, May 27, June 14 ; El Libano, April 25, May 3, 6, 9, and 20 ; Las Nubes, Nov. 30.

219. [*Dendrocincla meruloides* (Lafr.).

Dendromanes meruloides SALV. & GODM. Ibis, 1879, 202. Manaure.]

220. *Dendrocincla olivacea lafresnayi* Ridgw.

Dendrocincla olivacea anguina BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta ; one specimen) ; *ibid.* XIII, 1899, 100 (Palomina, Chirua, and La Concepcion ; one specimen each).

Seven specimens : Minca, July 28 ; Onaca, Jan. 4 ; Las Nubes, Dec. 5-7 ; Valparaiso, March 8 and April 1.

These specimens exactly agree with a Panama specimen in the Lawrence Collection identified as *Dendrocincla lafresnayi* Ridgw. by Mr. Ridgway.

221. *Picolaptes lachrymiger* (Des Murs).

Picolaptes lachrymiger SALV. & GODM. Ibis, 1880, 171 (San Sebastian) ; BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 100 (La Concepcion ; one specimen).

Thirty-two specimens, collected as follows : Valparaiso, 13 specimens, March 15-29, April 4-14, May 31, June 6 ; El Libano, 13 specimens, April 25-May 21, and June 17 ; Las Nubes, 4 specimens, Dec. 1 and 12-15 ; San Lorenzo, 2 specimens, May 12.

222. *Xiphocolaptes procerus* Cab. & Hein.

Xiphocolaptes procerus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177. Macotama.

Eleven specimens, collected as follows: Valparaiso, 4 specimens, March 17-26, April 1, May 26; El Libano, 3 specimens, April 29, May 12, June 16; San Lorenzo, 2 specimens, May 14; Las Nubes, 2 specimens, Dec. 6 and 15.

223. *Dendroplex picirostris* (Laftr.).

Dendroplex picirostris SALV. & GODM. Ibis, 1880, 171 (Santa Marta); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Nineteen specimens, all collected at Bonda, Jan. 21, Feb. 24, June 27, July 5, Aug. 13-30, Sept. 3, Nov. 5 and 17.

224. *Dendrornis nana* Lawrence.

Dendrornis susurrans SALV. & GODM. Ibis, 1880, 171. Minca.

Two specimens, Cacagualito, May 12 and July 29.

225. *Margarornis brunnescens* Sclater.

Premnoplex brunnescens BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 100. San Miguel and Chirua.

Five specimens: El Libano, May 9-21; Las Nubes, Dec. 9; Valparaiso, March 7.

226. [*Sittasomus olivaceus* Wied.]

Sittasomus olivaceus SALV. & GODM. Ibis, 1879, 202. Manaure.]

227. *Sclerurus albigularis propinquus* Bangs.

Sclerurus albigularis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177. Palomina, one specimen.

Sclerurus albigularis propinquus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 99. Chirua, one specimen.

Eleven specimens: Las Nubes, 7 specimens, March 10-25 and April 13; Valparaiso, 4 specimens, Dec. 3-15.

This series fully establishes the characters claimed by Mr. Bangs for his subspecies *propinquus*.

228. *Xenops genibarbis* Illiger.

Xenops genibarbis SALV. & GODM. Ibis, 1880, 171 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Four specimens: Bonda, Nov. 16; Minca, May 29 and July 24; Cacagualito, May 27.

229. *Xenops rutilus* Licht.

One specimen, Las Nubes, Dec. 14.

230. *Anabazanops striaticollis* (Sclater).

Anabazanops striaticollis BANGS, Proc. Biol. Soc. Wash. XIII, 1898, 99. Chirua, San Miguel, and La Concepcion.

Twenty-four specimens: Onaca, 1 specimen, Nov. 28; Valparaiso, 11 specimens, March 7-27, April 5, May 27 and 30, June 8; El Libano, 4 specimens, April 21, May 6-25; Las Nubes, 8 specimens, Dec. 1-20.

231. *Thripadectes flammulatus* (Eyton).

One specimen, El Libano, May 10.

232. [*Automolus rufipectus* Bangs.

Automolus rufipectus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 158 (Pueblo Viejo); *ibid.* XIII, 1899, 99 (various localities, 3000 to 7500 feet).]

233. [*Siptornis wyatti* (Scl. & Salv.).

Synallaxis wyatti SALV. & GODM. Ibis, 1880, 170. Sierra Nevada, 10,000 to 12,800 feet.

Siptornis wyatti BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 99. Paramo de Chiruqua, 15,000 feet.]

234. *Siptornis antisiensis* (Sclater).

Synallaxis antisiensis SALV. & GODM. Ibis, 1880, 170.

Siptornis antisiensis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 99. Santa Cruz, Paramo de Macotama, and Paramo de Chiruqua.

Two specimens, Valparaiso, April 4 and June 1.

235. [*Synallaxis candæi* Lafr. & d'Orb.

Synallaxis candæi SALV. & GODM. Ibis, 1880, 170. Valencia.]

236. *Synallaxis cinnamomea* (Gmel.).

One specimen, Cienaga, Sept. 8.

237. [*Synallaxis fusco-rufa* Sclater.

Synallaxis fusco-rufa SCLATER, P. Z. S. 1882, 578, pl. xliii, fig. 1 (San Sebastian); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177 (San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 79 (San Sebastian and El Mamon).]

238. [*Synallaxis albescens* Temm.

Synallaxis albescens BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177. Palomina].

239. [*Leptasthenura andicola* Sclater.

Leptasthenura andicola SALV. & GODM. Ibis, 1880, 170. Sierra Nevada, altitude 10,000 feet.]

240. [*Cinclodes fuscus albidiventris* (Sclater).

Cinclodes fuscus albidiventris BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 98. Paramo de Chiruqua, altitude 15,000 feet.]

241. *Furnarius agnatus* Sc. & Salv.

Furnarius agnatus SALV. & GODM. Ibis, 1880, 170 (Valle Dupar); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Six specimens: Bonda, July 5, Aug. 1 and 29; Santa Marta, July 11.

242. *Grallaricula ferruginepectus* Sclater.

One specimen, Las Nubes, Dec. 9.

243. [*Grallaria spiator* Bangs.

Grallaria spiator BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177. Macotama, altitude 8000 feet; one specimen.]

244. *Grallaria bangsi*,¹ sp. nov.

Type, No. 73145, ♂ ad., El Libano, altitude 7000 feet, May 25, 1899; coll. H. H. Smith.

Above uniform dark olive brown; primaries brownish olive; under wing-coverts deep chestnut, fading to pale chestnut on base of quills; lores dull buffy whitish; throat deep ochraceous, which color descends along the median line to the abdomen as a slight ochraceous edging to the feathers; rest of the under parts dark olivaceous, nearly like the back, broadly flammulated with pale buffy white. Bill rather light horn color, very light at tip and along the edges of the commissure; feet light horn color. Wing, 91 mm.; tail, 59; tarsus, 47; culmen, 23.

¹ Named for Mr. Outram Bangs, in recognition of his valuable contributions to our knowledge of the Santa Marta ornith.

This species finds its nearest ally in *Grallaria modesta* Sclater, from Bogota, from which it differs in its deep ochraceous throat, which extends from the base of the bill to the upper breast. It is represented by two specimens, exactly similar, the type from El Libano and another specimen, ♀ ad., from San Lorenzo (altitude 7500 feet), May 23, 1899.

245. *Myrmeciza boucardi* Berlepsch.

Myrmeciza boucardi BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138. Santa Marta.

Four specimens: Bonda, Nov. 10; Cacagualito, May 7 and 9.

246. *Rhamphocænus rufiventris sanctæ-martæ* (Sclater).

Rhamphocænus rufiventris sanctæ-martæ BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138. Santa Marta.

Seven specimens, Bonda, Jan. 10 and 16, Aug. 2 and 18, Sept. 14, Oct. 8, and Nov. 17.

247. *Formicivora intermedia* Cabanis.

Formicivora intermedia SALV. & GODM. Ibis, 1880, 171. Santa Marta.

Eriodora intermedia BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138. Santa Marta.

Fifty-seven specimens, all from Bonda, taken as follows: Jan. 11-27, Feb. 4-23, July 14, Aug. 11-27, Sept. 3-6, Oct. 6-21, Nov. 23, Dec. 8 and 23.

248. *Formicivora caudata* Sclater.

Formicivora caudata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 176. Palomina.

One specimen, Minca, July 25, is referred provisionally to this species.

249. *Myrmotherula sanctæ-martæ*, sp. nov.

Type, No. 72895, ♂ ad., Valparaiso, altitude 5500 feet, March 18, 1899; coll. H. H. Smith.

Adult male.—General color above uniform dark gray; wings dusky edged with gray, the coverts tipped with white, preceded by a distinct subapical bar of black; under wing-coverts gray; inner edge of quills whitish; tail dusky gray, almost concolor with the back, and with no trace of white on the tips of the feathers; throat black, the black area sharply defined; rest of the underparts concolor with the dorsal surface; under tail-coverts slightly tipped with whitish; bill and feet black. Wing, 52 mm.; tail, 43; tarsus, 17; culmen, 12.

Male juv.—A young male (Valparaiso, June 6) is changing from the nestling plumage to that of the adult. The remnants of the nestling plumage still present indicate that the young bird is brownish olivaceous above and ochraceous brown below, with the wings and tail rusty brown with a tinge of olivaceous, the under wing-covers, axillars and inner edges of the rectrices buffy ochraceous. No white on the outer wing-coverts and no white tipping to the tail-feathers.

This species is represented by only the two specimens above described. Its nearest ally is apparently *M. longipennis*, from which, however, it is strongly distinguished by the absence of white on the rectrices and the much darker gray of the ventral surface.

I also refer to this species a single specimen (♂ ad.) from Los Palmales, Venezuela, collected by Mr. F. W. Urich.

250. *Thamnophilus doliatus* (Linn.).

One specimen, Bonda, Oct. 1.

251. *Thamnophilus pulchellus* (Cab. & Hein.).

Thamnophilus leucauchen SALV. & GODM. Ibis, 1880, 171. Santa Marta and Valencia.

Five specimens: Bonda, Oct. 1 and 5, and Dec. 19; Cienaga, Sept. 8.

252. *Thamnophilus melanonotus* Sclater.

Thamnophilus melanonotus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138. Santa Marta.

One hundred specimens, all collected at Bonda and taken at intervals throughout the year.

253. *Thamnophilus nævius* (Gmel.).

Thamnophilus nævius SALV. & GODM. Ibis, 1880, 171 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Eleven specimens: Bonda, Sept. 28, Oct. 8, Nov. 11 and 16; Minca, Jan. 19; Cacagualito, May 9-21; Onaca, Dec. 27 and Jan. 2.

254. [*Conopophaga browni* Bangs.

Conopophaga browni BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 100. Pueblo Viejo and Chirua, 7000 to 8000 feet.]

[August, 1900.]

255. [*Scytalopus sylvestris* Tacz.

Scytalopus sylvestris BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 101. San Francisco, one specimen.]

256. *Scytalopus latebricola* Bangs.

Scytalopus latebricola BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 101. Paramo de Chiruqua and Paramo de Macotama, altitude, 10,000 to 11,000 feet.

Two specimens, Valparaiso, April 13 and June 19.

257. *Cyanocorax affinis* Pelzeln.

Cyanocorax affinis SALV. & GODM. Ibis, 1879, 201 (Valle Dupar and Atanques); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Eight specimens: Bonda, June 17, July 8 and 9; Minca, July 26; Las Nubes, Dec. 1; Onaca, Dec. 29 and 30; Cacagualito, May 15.

258. *Quiscalus assimilis* Sclater.

One specimen, Cienaga, Sept. 11.

259. [*Icterus icterus* (Linn.).

Icterus vulgaris SALV. & GODM. Ibis, 1879, 200. Valle Dupar.]

260. *Icterus xanthornus* (Linn.).

Icterus xanthornus SALV. & GODM. Ibis, 1880, 123 (Santa Marta): BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138 (Santa Marta).

Fourteen specimens: Santa Marta, July 10-14; Bonda, July 6, Aug. 16-22, Nov. 12 and 29, Dec. 1.

261. *Icterus mesomelas* Wagler.

One specimen, Cacagualito, May 25.

262. *Icterus auricapillus* Cassin.

Icterus auricapillus SALV. & GODM. Ibis, 1880, 123 (Santa Marta). BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139 (Santa Marta).

Eight specimens: Bonda, July 3 and 9, Aug. 17, Sept. 7, Oct. 6, Nov. 21, Dec. 6; Cacagualito, May 12.

263. [*Icterus galbula* (Linn.).

Icterus baltimore SALV. & GODM. Ibis, 1880, 123. Minca, Feb. 12.

Icterus galbula BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139. Santa Marta.]

264. [*Sturnella meridionalis* *Sclater.*

Sturnella ludoviciana SALV. & GODM. Ibis, 1879, 201. San Sebastian.

Sturnella meridionalis BANGS, Proc. N. Engl. Zool. Club, I, 1900, 79. San Sebastian and El Mamon.]

265. *Molothrus cassini* *Finsch.*

Molothrus discolor SALV. & GODM. Ibis, 1880, 123. Arihueca.

One specimen, ♀ ad., from Cacagualito, May 29.

266. *Dolichonyx oryzivorus* (*Linn.*).

Two specimens: Cienaga, Sept. 12, and Bonda, Oct. 12.

267. *Cassidix oryzivora* (*Gmel.*).

Cassidix oryzivora SALV. & GODM. Ibis, 1879, 201 (Manaure); BANGS Proc. Biol. Soc. Wash. XII, 1898, 159 and 178 (Pueblo Viejo and Palomina).

One specimen, Valparaiso, April 19.

268. *Cassicus persicus* (*Linn.*).

Cassicus persicus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 138. Santa Marta.

One specimen, ♂ ad., Cacagualito, May 28.

269. *Ostinops decumanus* (*Pall.*).

Ostinops decumanus SALV. & GODM. Ibis, 1879, 200 (San Jose and Atanques); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 177 (Palomina).

One specimen, ♂ ad., Onaca, Jan. 3.

270. *Pseudochloris citrina* (*Pelz.*).

One specimen, apparently a young female, taken at Onaca, Dec. 29, is provisionally referred here.

271. [*Emberizoides macrurus* (*Gmel.*).

Emberizoides macrurus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141 and 179 (Santa Marta, San Miguel, Macotama and Palomina.)

272. *Arremonops venezuelensis* *Ridgw.*

Arremonops venezuelensis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 104. Santa Marta.

Two specimens, juv., Bonda, Oct. 24.

273. [Arremonops caneus Bangs.

Embernagra conirostris SALV. & GODM. Ibis, 1880, 123. Santa Marta.

Embernagra conirostris caneus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140 (in part). Santa Marta.

Arremonops caneus BANGS, *ibid.* XIII, 1899, 103. Santa Marta.]

274. [Catamenia, sp.

Catamenia, sp.? BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 102. One female, Paramo de Chiruqua, 15,000 ft.]

275. Spiza americana (Gmel.).

Spiza americana BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140. Santa Marta.

Four specimens, Bonda, Jan. 4 and 5 and March 21.

276. Zamelodia ludoviciana (Linn.).

Hedymeles ludovicianus SALV. & GODM. Ibis, 1880, 122. Minca, Jan. 29.

Zamelodia ludoviciana BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140. Santa Marta, winter.

Three specimens: Masinga Vieja, Nov. 23; Valparaiso, March 29.

277. [Haplospiza nivarica Bangs.

Phrygilus unicolor SALV. & GODM. Ibis, 1880, 122. Sierra Nevada, from 9200 to 12,800 feet.

Haplospiza nivarica BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 102. Paramo de Chiruqua, alt. 15,000 ft., at the edge of snow.]

278. Myiospiza manimbe (Licht.).

Myiospiza manimbe BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 103. Paramo de Macotama.

Two specimens, Bonda, Sept. 28.

279. [Brachyspiza capensis peruviana (Less.).

Zonotrichia pileata SALV. & GODM. Ibis, 1879, 200 (Atanques); *ibid.* 1880, 222 (San Sebastian).

Brachyspiza capensis peruviana BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139 (Santa Marta); *ibid.* Proc. N. Engl. Zool. Club, I, 1900, 79 (San Sebastian and El Mamon).]

280. *Sycalis flaveola* (Linn.).

Sycalis flaveola SALV. & GODM. Ibis, 1880, 123. Santa Marta.

Twelve specimens : Bonda, Aug. 13, Sept. 6, Nov. 11 ; Cienaga, Sept. 10-14 ; Cacagualito, May 24.

281. [*Sycalis browni* Bangs.

Sycalis browni BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139. Santa Marta.]

282. [*Spinus spinescens capitaneus* Bangs.

Chrysomitris spinescens SHARPE, Cat. Bds. Brit. Mus. XII, 1888, 196. Sierra Nevada, and San Sebastian, collected by Simons.

Spinus spinescens capitaneus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 178 (San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 79 (San Sebastian).]

283. *Astragalinus psaltria columbianus* (Lafr.).

Chrysomitris mexicana and *C. columbiana* BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139. Santa Marta.

Six specimens : Bonda, Jan. 17 and Sept. 28 ; Onaca, Dec. 30 ; Minca, Aug. 3.

284. [*Oryzoborus funereus* Sclater.

Oryzoborus funereus SHARPE, Cat. Bds. Brit. Mus. XII, 1888, 81 (Minca); BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 102 (Chirua and La Concepcion).]

285. *Cyanocompsa concreta sanctæ-martæ* Bangs.

Cyanocompsa concreta sanctæ-martæ BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139. Santa Marta.

Four specimens, Cacagualito, May 12-20.

286. *Volatinia jacarini splendens* (Vieill.).

Volatinia jacarini SALV. & GODM. Ibis, 1879, 200. San José.

Volatinia jacarini splendens BANGS, Proc. Biol. Soc. Wash. XII, 1898, 139. Santa Marta.

Thirteen specimens : Bonda, Aug. 6, 23, and 27, Sept. 28, Nov. 17 ; Onaca, Dec. 29 ; Minca, July 25 ; Masinga Vieja, Sept. 7 ; Cacagualito, May 14-21.

287. *Phonipara bicolor* (Linn.).

Two females, collected at Minca, Aug. 1, are referred to this species, but the Colombian form will doubtless prove separable when more material is received.

288. [*Sporophila plumbea colombiana* (*Sharpe*).

Spermophila plumbea SALV. & GODM. Ibis, 1880, 122. Santa Marta.

Spermophila plumbea colombiana SHARPE, Cat. Bds. Brit. Mus. XII, 1888, 99.]

289. *Sporophila minuta* (*Linn.*).

Eleven specimens : Bonda, Aug. 2, 27-29, Sept. 3 ; Onaca, Jan. 4 ; Cienaga, Sept. 9-17.

290. *Sporophila gutturalis* (*Licht.*).

Sporophila gutturalis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 179. Palomina.

Seven specimens : Cacagualito, 6, all males, May 12-26 ; Onaca, 1 ♀, Jan. 2.

291. *Sporophila grisea* (*Gmel.*).

Spermophila grisea SHARPE, Cat. Bds. Brit. Mus. XII, 1888, 96. Santa Marta. W. W. Saunders.

One specimen, Cienaga, Sept. 8.

292. *Sporophila luctuosa* (*Lafr.*).

Spermophila luctuosa SALV. & GODM. Ibis, 1880, 122 (Santa Marta) ; BANGS, Proc. N. Engl. Zool. Club, I, 1899, 79 (San Sebastian and El Mamon).

One specimen, ♂ ad., Masinga Vieja, Sept. 7.

293. [*Schistochlamys atra* (*Gmel.*).

Schistochlamys atra BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 104. La Concepcion and San Antonio.]

294. *Saltator striatipectus* (*Lafr.*).

Saltator albicollis SALV. & GODM. Ibis, 1880, 122. Minca.

Saltator striatipectus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140. Santa Marta.

Five specimens : Bonda, Dec. 7 and Jan. 10 ; Minca, July 28 and Aug. 3 and 4.

295. *Saltator magnus* (*Gmel.*).

Saltator magnus SALV. & GODM. Ibis, 1880, 121 (Minca) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140 and 178 (Santa Marta, San Miguel, and Palomina).

Three specimens : Onaca, Jan. 6 ; Cacagualito, May 27 ; Minca, July 31.

296. *Saltator olivaceus* Cab.

Saltator olivaceus SALV. & GODM. Ibis, 1880, 121. Santa Marta.

Eight specimens : Bonda, Nov. 17, Dec. 2 and 22, Jan. 5 ; Santa Marta, July 12 and 14.

297. *Arremon schlegeli* Bonap.

Arremon schlegeli SALV. & GODM. Ibis, 1880, 121 (Minca) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 140 (Santa Marta).

Seventeen specimens, as follows : Bonda, Oct. 12, Nov. 15 ; Minca, June 5 and 23, July 6, 25-28, Aug. 4 ; Onaca, Dec. 28 ; Valparaiso, May 31.

298. *Buarremon basilicus* Bangs.

Buarremon basilicus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 159 (Pueblo Viejo) ; *ibid.* XIII, 1899, 104 (Chirua and San Francisco).

Twelve specimens, as follows : Valparaiso, 9 specimens, March 10, 14, and 25, April 12-15, May 26, June 28 ; El Libano, May 9, 18, and 20.

299. *Buarremon assimilis* (Boiss.).

Four specimens, Bonda, Oct. 24 (2 juv. in nestling plumage), Dec. 14 and 17 (2 adults).

The young in first plumage differ from the adults in having the black head stripes brown instead of black and the median stripe very indistinct ; the olive of the back is blotched with brown ; the throat is pale greenish yellow instead of white ; the rest of the lower parts are olivaceous, with the breast streaked with blackish brown.

300. *Buarremon melanocephalus* Salv. & Godm.

Buarremon melanocephalus SALV. & GODM. Ibis, 1880, 121 (San Sebastian) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 178 (San Miguel, Palomina, and San Francisco) ; *ibid.* Proc. N. Eng. Zool. Club, I, 1899, 79 (San Sebastian and El Mamon).

Twelve specimens, as follows : Las Nubes, 1 specimen, Dec. 22 ; Valparaiso, 5 specimens, March 7 and 8, April 5 and 8, June 10 ; El Libano, 6 specimens, April 22, May 4-22.

301. [*Nemosia pileata* (Bodd.).

Nemosia pileata SALV. & GODM. Ibis, 1880, 121. Valencia.]

302. [Tachyphonus rufus (Bodd.).

Tachyphonus rufus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160 and 179 (Pueblo Viejo and Palomina).]

303. Eucometis cristata (Du Bus).

Eucometis cristata SALV. & GODM. Ibis, 1880, 121 (Arihueca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142 (Santa Marta).

Four specimens: Bonda, Feb. 18 and Nov. 10; Onaca, Jan. 5; Cacagualito, May 9.

304. Piranga hæmalea Salv. & Godm.

Piranga faceta BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141 (Santa Marta); *ibid.* XIII, 1899, 104 (La Concepcion and San Miguel).

Seven specimens: Bonda, Jan. 7 and Aug. 23; Onaca, Dec. 26 and 30; Minca, July 27; Cacagualito, May 29; Masinga Vieja, Sept. 7.

305. Piranga rubra (Linn.).

Piranga æstiva SALV. & GODM. Ibis, 1879, 200 (Atanques, Feb. 26); *ibid.* 1880, 121 (Santa Marta, Dec. 27, and Minca, Jan. 16).

Piranga rubra BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141 (Santa Marta, winter).

Thirty-three specimens, of which 31 are from Bonda, as follows: Bonda, Nov. 8-30, Dec. 1-28, Jan. 3-24, Feb. 23; Onaca, Jan. 8; Valparaiso, March 17.

Three of the males (Nov. 17 and 22 and March 17) are in full adult dress; six others (Dec. and Jan.) are molting into the red plumage, but many others, evidently young males, show no signs of molt.

306. Ramphocelus dimidiatus (Laftr.).

Ramphocelus dimidiatus SALV. & GODM. Ibis, 1880, 120 (San Antonio); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141, 159, and 179 (Santa Marta, Pueblo Viejo, Palomina, and San Miguel).

Fifteen specimens, Cacagualito, May 5-June 2.

307. Tanagra cyanocephala auricrissa (Sclater).

Two specimens: Valparaiso, April 1; El Libano, May 11.

308. *Tanagra palmarum melanoptera* (Hartl.).

Tanagra palmarum SALV. & GODM. Ibis, 1880, 120. Minca.

Tanagra palmarum melanoptera BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141. Santa Marta.

Three specimens : Cacagualito, May 20 and June 2 ; Bonda, Aug. 30.

309. *Tanagra cana Swains.*

Tanagra cana SALV. & GODM. Ibis, 1880, 120 (Santa Marta) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141 (Santa Marta).

Eighteen specimens : Bonda, 17 specimens, Feb. 18, July 13, Aug. 4-20, Sept. 8, Oct. 20-22, Nov. 2-29, Dec. 9-17 ; Cacagualito, 1 specimen, May 27.

310. *Pœcilothraupis melanogenys* Salv. & Godm.

Pœcilothraupis melanogenys SALV. & GODM. Ibis, 1880, 120, pl. iii. (near San Sebastian, 8000 ft., June 22) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 179 (Macotama) ; *ibid.* XIII, 1899, 104 (alt. 7,500-12,000 ft.).

Eleven specimens : El Libano (6000 ft.), April 22, May 18-21 ; San Lorenzo (7000 ft.), May 2-13.

311. *Calospiza desmaresti* (Gray).

Calliste desmaresti SALV. & GODM. Ibis, 1880, 120. Minca and Guallabal, alt. 3000 ft.

Calospiza desmaresti BANGS, Proc. Biol. Soc. Wash. XII, 1898, 159 and 179. Santa Marta and Pueblo Viejo.

Forty-nine specimens, as follows : Bonda, 20 specimens, Sept. 29 ; Agua Dulce, 2 specimens, April 12 ; Onaca, 17 specimens, Dec. 2-20 ; Cacagualito, 1 specimen, May 19 ; Valparaiso, 9 specimens, March 13, 29, and 30, and April 3-14.

312. *Calospiza atricapilla* (Lafre.).

Twenty-two specimens : Valparaiso, 20 specimens, March 25-April 12, May 24 and 26, June 8 and 17 ; Las Nubes, 2 specimens, Dec. 17 and 20. The series contains only one female and one ♂ juv., 20 of the 22 specimens being adult males.

It seems strange that this species should not have been taken by Mr. Brown, and that *C. cyanoptera* should have been taken by both Mr. Simon and Mr. Brown and not by Mr. Smith's collectors.

313. [*Calospiza cyanoptera* (Swains.).

Calliste cyanoptera SALV. & GODM. Ibis, 1879, 200 (San José and Atanques); *ibid.* 1880, 120 (Minca).

Calospiza, sp. BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141. Santa Marta.

Calospiza cyanoptera BANGS, Proc. Biol. Soc. Wash. XII, 1898, 159 and 179. Pueblo Viejo, Palomina, and San Miguel.]

314. *Euphonia crassirostris* Sclater.

Euphonia laniirostris SALV. & GODM. Ibis, 1879, 199 (Atanques, alt. 2700 ft.); *ibid.* 1880, 119 (Santa Marta and Minca).

Euphonia crassirostris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141 and 179. Santa Marta and Palomina.

Sixty-eight specimens, as follows: Bonda, 57 specimens, Jan. 5-17, June 16 and 22, July 13, Aug. 3-22, Sept. 13, Oct. 7 and 8, Nov. 9-25, Dec. 6 and 8; Onaca, 2 specimens, Jan. 6; Minca, 4 specimens, July 22-31; Cacagualito, 5 specimens, May 10-16, June 3.

Euphonia crassirostris is smaller than *E. laniirostris*, to which it has often been referred, and the adult males are much less deeply colored throughout, especially below, where the yellow is a light clear yellow and not the deep, almost gamboge yellow of *E. laniirostris*. There is a corresponding difference in the olive green of the young males and females. (See further on this point, this 'Bulletin,' Vol. III, 1891, p. 351.)

315. *Euphonia trinitatis* Strickl.

Euphonia trinitatis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 141. Santa Marta.

Twenty-six specimens, Bonda, Jan. 13 and 17, June 28, July 13, Aug. 5-27, Sept. 2-13, Oct. 3-11, Nov. 8-13.

316. *Chlorophonia frontalis* Sclater.

Chlorophonia frontalis SALV. & GODM. Ibis, 1879, 199 (Valley of Chinchicua and San José); BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 104 (Chirua, La Concepción, and San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 80 (San Sebastian.)

Forty-five specimens: Onaca, 11 specimens, Dec. 31 and Jan. 5-8; Las Nubes, 17 specimens, Dec. 8-20; Valparaiso, 16 specimens, April 1-7, March 13-30; El Libano, 1 specimen, May 8.

317. *Stelgidopteryx uropygialis* (Lawr.).

Stelgidopteryx uropygialis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142. Santa Marta.

Eleven specimens, Bonda, Jan. 18, July 1, Sept. 6 and 7 (in molt), Oct. 11, Nov. 9 and 29, Dec. 15, and Jan. 18.

318. [*Atticora cyanoleuca* (Vieill.).

Atticora cyanoleuca BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. La Concepcion, alt. 3000 ft.]

319. *Cyclarhis flavipectus canticus* Bangs.

Cyclarhis flavipectus SALV. & GODM. Ibis, 1880, 119. Valencia.

Cyclarhis flavipectus canticus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142. Santa Marta.

Eleven specimens, Bonda, Jan. 6 and 18, June 30, Aug. 10, 15, and 31, Sept. 5 and 8, Nov. 18 and 30, and Dec. 19.

In addition to the features given by Mr. Bangs for this form, it may be noted that the Santa Marta specimens have the abdomen and lower tail-coverts much more strongly suffused with buff than Trinidad and Venezuela (Cumaná) examples.

320. *Hylophilus brunneus*, sp. nov.

Type, No. 70572, ♀ ad., Las Nubes, alt. 5000 ft., Dec. 14, 1898; coll. H. H. Smith.

Front, lores and cheeks brownish ochraceous, darker on the pileum and passing gradually on the nape into the olivaceous gray of the rest of the dorsal surface; outer wing-coverts and quills fuscous, externally broadly margined with ochraceous brown; inner webs broadly margined with pale ochraceous; under wing-coverts deep ochraceous; rectrices fuscous broadly margined with rusty brown; throat and breast brownish ochraceous; rest of under parts olivaceous brown; bill black above, lighter below, especially at base; feet grayish black. Wing, 55 mm.; tail, 42; tarsus, 16; culmen, 13.

This species is very different from all the other members of the genus, through the dull olivaceous gray dorsal surface, ochraceous throat and breast, and olive brown underparts. It is represented by two adult females, taken as follows: Las Nubes, Dec. 14 (type), and Valparaiso, March 18. The color of the lower parts very closely resembles that of the female of *Diglossa albilateralis*.

321. *Hylophilus flavipes* Lafr.

Hylophilus flavipes BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142. Santa Marta.

Thirty-nine specimens, all from Bonda, collected as follows : Jan. 9-28, Feb. 3-24, July 9, Aug. 6-31, Sept. 6, Oct. 22.

Vireo acuticauda Lawrence, usually synonymized with *Hylophilus aurantiirostris*, is referable to *H. flavipes*, as shown by comparison of the type with the present large series of both *H. aurantiirostris* and *H. flavipes*.

Hylophilus viridiflavus Lawrence, from Panama, while closely allied to *H. flavipes*, is so different from it as apparently to warrant its recognition as specifically distinct.

322. *Hylophilus aurantiifrons* Lawr.

Hylophilus hypoxanthus SALV. & GODM. Ibis, 1880, 118 (not of Pelzeln). Valencia.

Hylophilus aurantiifrons BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142. Santa Marta.

Seven specimens, Bonda, Jan. 11 and 21, Aug. 3, Nov. 8 and 17.

The name *Hylophilus hypoxanthus* Pelzeln (*Hylophilus aurantiirostris hypoxanthus*) may well be retained for the form found in Trinidad, and on the adjoining Venezuelan coast, Guiana, etc., which differs from true *aurantiirostris* from Panama and the northern coast region of Colombia and Venezuela in having a distinct buffy or ochraceous suffusion over the whole pectoral region, but deepest on the sides of the breast.

323. *Vireo josephae* Sclater.

Vireo josephae BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. One specimen, El Paramo de Macotama, alt. 11000 ft.

Ten specimens : Valparaiso, April 4 ; El Libano, April 25 and 28, and May 6, 9, and 12 ; Las Nubes, Dec. 6-10.

324. *Vireo chivi agilis* (Licht.).

Vireo chivi agilis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 142. Santa Marta.

Fifty specimens, all taken near Bonda, as follows : Bonda, 44 specimens, Jan. 17, 23, and 26, Feb. 8-17, June 25-29, July 8

Aug. 9-30, Sept. 5, Oct. 8, Nov. 23; Minca, July 27 and Aug. 4; Santa Marta, July 1; Quebra Concha, Aug. 18; Cacagualito, May 19.

325. *Vireo flavifrons* Vieill.

Vireosylvia flavifrons SALV. & GODM. Ibis, 1880, 118. Minca, Feb. 13.

One specimen, Onaca, Dec. 28.

326. *Vireo flavoviridis* (Cassin).

Seven specimens, Bonda, Aug. 12 and 25, Sept. 13, Oct. 4-13.

327. [*Vireo olivaceus* (Linn.).

Vireosylvia olivacea SALV. & GODM. Ibis, 1880, 118. Santa Marta, April 3.]

328. *Vireo calidris barbatula* (Baird).

Eleven specimens, Bonda, Aug. 17-Sept. 18.

329. *Procnias viridis* Ill.¹

Procnias tersa SALV. & GODM. Ibis, 1879, 199 (Manaure); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 179 (Palomina, San Miguel, and San Francisco).

Nine specimens: Minca, June 6-28 and July 26; Valparaiso, April 5 and 14, and June 30.

330. *Cœreba luteola* (Licht.).

Certhiola luteola SALV. & GODM. Ibis, 1880, 119. Santa Marta.

Three specimens: Cacagualito, May 12; Santa Marta, July 10; Cienaga, Sept. 15.

331. *Cyanerpes cæruleus microrhynchus* (Berl.).

Cœreba cærulea SALV. & GODM. Ibis, 1880, 119. Minca.

Arbelorhina cærulea microrhyncha BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Fifty-four specimens, as follows: Bonda, 44 specimens, Nov. 29, Jan. 6-Feb. 8; Minca, July 5, 16, 27, and Aug. 1; Onaca, Dec. 29; Las Nubes, Dec. 15; Cacagualito, May 30.

332. *Cyanerpes cyanea eximea* (Berl.).

Cœreba cyanea SALV. & GODM. Ibis, 1879, 199 (Manaure, alt. 4000 ft.); *ibid.* 1880, 119 (Minca.)

Arbelorhina cyanea eximea BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

¹ Cf. Allen, this Bulletin, II, pp. 69, 70, March, 1889.

Sixty-two specimens, as follows: Bonda, 39 specimens, Jan. 11-26, Feb. 2-9, May 11, Aug. 14-Sept. 1, Oct. 7-14, Nov. 20, Dec. 10; Cacagualito, 19 specimens, May 5-30; Minca, 4 specimens, July 25-Aug. 3.

333. *Dacnis napæa* Bangs.

Dacnis napæa BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Eight specimens: Bonda, Aug. 19 and Jan. 15-19; Cacagualito, May 12 and June 1.

334. *Dacnis plumbea* (Lath.).

Two specimens, Sept. 14.

335. [*Conirostrum rufum* Lafr.]

Conirostrum rufum BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. Paramo de Chiruqua and Paramo de Macotama.]

336. [*Diglossa sittoides similis* (Lafr.).

Diglossa sittoides similis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 179 (San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 80 (San Sebastian and El Mamon).]

337. [*Diglossa aterrima* (Lafr.).

Diglossa aterrima SALV. & GODM. Ibis, 1880, 119. Sierra Nevada de Santa Marta, 10,000-11,000 ft.

I include this species in the belief that if the specimens had been what Mr. Bangs has since described as *D. nocticolor* they could not have been referred by these authors to *D. aterrima*.]

338. *Diglossa nocticolor* Bangs.

Diglossa nocticolor BANGS, Proc. Biol. Soc. Wash. XII, 1898, 180. Macotama, 8000 ft.

This fine species is represented by a single specimen, ♂ ad., collected at El Libano in May.

339. *Diglossa albilateralis* Lafr.

Diglossa albilateralis SALV. & GODM. Ibis, 1880, 119 (near San Sebastian); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 179 (San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 80 (San Sebastian and El Mamon).

Five specimens: El Libano, April 22, May 2 and 17; Las Nubes, Dec. 13.

340. *Basileuterus cinereicollis* Sclater.

Basileuterus conspicillatus SALV. & GODM. Ibis, 1880, 117. Two females, San José, types of the species.

Basileuterus cinereicollis BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160 and 180. Pueblo Viejo, San Francisco, and Palomina.

Thirty-eight specimens: Las Nubes, Nov. 20 and Dec. 1-14; Onaca, Nov. 28-Dec. 14; Valparaiso, March 8-30, April 6 and 17, May 21-31, June 9; El Libano, April 22, May 6, 12, 21, and 30.

This series of 38 specimens of *Basileuterus cinereicollis* presents a vast amount of variation in the color of the central crown patch, which, in the Valparaiso series of 18 March specimens, varies from clear yellow through yellow more or less tinged with ashy at the surface to deep brownish orange; in the greater part of the specimens the crown patch is decidedly orange rather than yellow, and in many of the specimens the orange is quite as intense and pure as in *B. coronatus*. That this variation is not due to season is evident from the period (three weeks) covered by this series; in fact, some of the specimens showing the greatest difference in the color of the crown patch were collected within a few days of each other. Again, the difference is not sexual, as yellow-crowned and orange-crowned specimens seem to occur with about equal frequency in each sex. It may be due to age, young birds having a yellow crown patch and old birds an orange crown patch. This is indicated by the fact that a large proportion of the specimens collected in November and December have the crown yellow, or yellow more or less tinged with orange. (In many specimens the tips of the crown feathers are obscured by ashy, whether taken in fall or spring.)

Basileuterus cinereicollis was described by Sclater in 1864 (P. Z. S., 1864, p. 166) from a single specimen from Bogota, and a second specimen was received the next year from the same locality (P. Z. S., 1865, p. 285, pl. ix, fig. 2). These were the only specimens known to Mr. Sharpe (Cat. Bds. Brit. Mus., X, 382) in 1885.

Basileuterus conspicillatus Salvin & Godman was described (Ibis, 1880, 117) from two females collected at San José, Sierra Nevada de Santa Marta, in June. These two specimens appear to be the only specimens known to Mr. Sharpe (*l. c.*) in 1885.

The alleged difference between the two forms consists in the color of the crown patch, which in *B. cinereicollis* is yellow and in *B. conspicillatus* orange. Both forms are obviously represented in the present Santa Marta series, with also every stage of intergradation between them. I have accordingly adopted the earlier name *cinereicollis* in place of *conspicillatus*.

341. *Basileuterus cabanisi* Berl.

Basileuterus cabanisi SALV. & GODM. Ibis, 1880, 117 (Minca); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144 (one specimen, Santa Marta).

Eight specimens: Minca, July 20; Las Nubes, Dec. 3; Onaca, Nov. 28 and Dec. 28-Jan. 4.

342. *Basileuterus mesochrysus* Sclater.

Basileuterus mesochrysus SALV. & GODM. Ibis, 1879, 198 (Manaure); *ibid.* 1880, 117 (Chirua); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144 and 180 (Santa Marta and Palomina).

Eleven specimens: Bonda, Aug. 23; Minca, June 22, July 22-28, Nov. 24; Cacagualito, May 17-28.

343. *Setophaga flavivertex* Salvin.

Setophaga flavivertex BANGS, Proc. Biol. Soc. Wash. XII, 1898, 180. Macotama.

Seven specimens, El Libano, April 22-28, May 11 and 12.

344. *Setophaga verticalis* d'Orb. & Lafr.

Setophaga verticalis SALV. & GODM. Ibis, 1880, 118 (San Sebastian); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 180 (San Miguel); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 80 (San Sebastian and El Mamon).

Ten specimens: Las Nubes, Nov. 29-Dec. 10; Valparaiso, March 13 and 23; El Libano, May 2.

345. *Setophaga ruticilla* (Linn.).

Setophaga ruticilla SALV. & GODM. Ibis, 1879, 199; 1880, 118 (Atanques, Feb. 26, and Minca, Jan. 15-18); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144 (Santa Marta).

Fourteen specimens: Bonda, Sept. 2 and 27, Nov. 12 and 16, Jan. 2 and 10; Valparaiso, March 11-30.

346. [*Geothlypis philadelphia* (Wils.).

Geothlypis philadelphia BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. Ten specimens, Chirua and La Concepcion, Feb. 12-March 25.]

347. *Geothlypis agilis* (Wils.).

One specimen, Bonda, Oct. 22.

This is apparently the first 'winter' record for this species.

348. *Geothlypis formosa* (Wils.).

Geothlypis formosa BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144. One specimen, Santa Marta, winter.

Five specimens, Bonda, Oct. 7 and 8, and Nov. 10 and 24.

349. *Seiurus noveboracensis* (Gmel.).

Seiurus noveboracensis SALV. & GODM. Ibis, 1880, 116 (Minca); BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105 (La Concepcion, March 17, and Chirua, Feb. 7).

Five specimens: Bonda, Sept. 8, Oct. 22 and 25, and Nov. 5; Cienaga, Sept. 14.

350. [*Seiurus noveboracensis notabilis* Ridgw.]

Seiurus noveboracensis notabilis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. Chirua, Feb. 7.]

351. *Seiurus motacilla* (Vieill.).

Seiurus motacilla BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

One specimen, Bonda, Nov. 8.

352. *Dendroica æstiva* (Gmel.).

Dendroica æstiva SALV. & GODM. Ibis, 1880, 117 (Minca, Jan. 24); BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143 (Santa Marta).

Twenty-nine specimens, Bonda, Aug. 27-Jan. 31.

353. *Dendroica striata* (Forst.).

Thirty-one specimens, all from Bonda, collected Oct. 7-Nov. 22.

354. *Dendroica castanea* (Wils.)

One ♂ juv., Bonda, Oct. 27.

355. *Dendroica cærulescens* (Gmel.).

One adult male, Las Nubes, Dec. 16.

[August, 1900.]

356. *Dendroica blackburniæ* (Gmel.).

Six specimens : Las Nubes, Dec. 10-13 ; Valparaiso, March 24 and 29.

357. *Compsothlypis pitiayumi pacifica* (Berl.).

Parula pitiayumi SALV. & GODM. Ibis, 1880, 117. Minca.

Compsothlypis pitiayumi pacifica BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Three specimens : Onaca, Dec. 31 ; Valparaiso, April 1 and 13.

358. *Helminthophila peregrina* (Wils.).

Helminthophaga peregrina SALV. & GODM. Ibis, 1880, 117. Minca, Jan. 14 and 17, and March 26.

Helminthophila peregrina BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Eleven specimens : Bonda, Nov. 3 ; Onaca, Dec. 29 and Jan. 7 ; Las Nubes, Dec. 1-22 ; Valparaiso, March 17 and April 4.

359. *Helminthophila chrysoptera* (Linn.).

Helminthophaga chrysoptera SALV. & GODM. Ibis, 1880, 117. Minca, Feb. 8.

Helminthophila chrysoptera BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160. Pueblo Viejo, March 20.

Three specimens : Bonda, Sept. 6 and Oct. 3 ; Las Nubes, Dec. 7.

360. [*Helminthophila pinus* (Linn.).

Helminthophila pinus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. One male, Chirua, March 21.]

361. *Protonotaria citrea* (Bodd.).

Thirty-seven specimens, all from Bonda, collected as follows : Oct. 8-12, Nov. 12-22, Dec. 1-12, Jan. 10-30.

362. *Mniotilta varia* (Linn.).

Mniotilta varia SALV. & GODM. Ibis, 1880, 117 (Minca, Jan. 14 and 17 and March 26) ; BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143 (Santa Marta).

Six specimens : Bonda, Aug. 21 and Sept. 29 ; Las Nubes, Dec. 21 ; Onaca, Dec. 29 and Jan. 4.

363. [*Troglodytes monticola* Bangs.

Troglodytes monticola BANGS, Proc. Biol. Soc. Wash. XII, 1898, 106. Paramo de Chirua and Paramo de Macotama, alt. 11,000-15,000 ft.]

364. *Troglodytes musculus rufulus* (Cab.).

Troglodytes tessellatus SALV. & GODM. Ibis, 1879, 198 (Marocaso); *ibid.* 1880, 117 (Santa Marta).

Troglodytes rufulus SHARPE, Cat. Bds. Brit. Mus. VI, 1881, 258, in part,—the reference to the above-mentioned Santa Marta specimens.

A series of 8 specimens is provisionally referred to this subspecies, taken as follows: Minca, June 21; Cacagualito, May 16 and 17 (4 specimens, 1 juv. in first plumage); Cienaga, Sept.; Bonda, June 22 (juv.) and Oct. 8; Minca, June 21.

These examples agree very well with examples from Trinidad, in several instances specimens from the two localities being practically indistinguishable. The Trinidad specimens are apparently strictly referable to the type form of *rufulus* from Guiana. Mr. Sharpe (*l. c.*) also considers British Guiana (Bartica Grove) specimens "identical with the Santa Marta race."

365. *Thryothorus lætus* Bangs.

Thryothorus lætus BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160 and 180 (Pueblo Viejo and Palomina).

Six specimens: Onaca, Dec. 20, ad.; Cacagualito, May 28 and 29, ad. and juv. in first plumage; Minca, July 6, 22, and 26, 2 ad. and 1 juv.

The young in first plumage has the head nearly concolor with the back, which latter is similar in color to that of the adult; the throat is dull grayish brown, almost without black spotting; the breast is buffy olivaceous brown, without spotting, and the rest of the lower surface is nearly uniform dull olive brown with a tinge of buff. The young appear to molt directly from this plumage into that of the adult.

366. *Thryophilus rufalbus castanonotus* (Ridgw.).

Thryophilus rufalbus SALV. & GODM. Ibis, 1880, 116. Minca.

Thryophilus minlosi BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144 (not of Berlepsch). Santa Marta.

Ten specimens, collected as follows: Cacagualito, May 7–June 2; Bonda, March 15 and Nov. 24; Minca, July 31.

These specimens agree well with specimens from Panama, on the one hand, and with examples from Cumanacoa, Venezuela, on the other. The *Thryophilus minlosi* Berlepsch, from Bucara-

manga, is a much paler bird, more like *T. sinaloa* Baird, as shown by the original description and figure, and it is also from a very different faunal district.

367. [Henicorhina anachoreta Bangs.

Henicorhina anachoreta BANGS, Proc. N. Engl. Zool. Club, I, 84, Dec. 17, 1899. El Paramo de Chiriqua, between 11,000 and 12,000 feet altitude.]

368. Henicorhina leucophrys (Tschudi).

Henicorhina leucophrys BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160 and 181. Pueblo Viejo, San Francisco, Palomina, and San Miguel.

Seventeen specimens, collected as follows: Valparaiso, Dec. 3-17; El Libano, May 4 and 12.

369. Microcerculus marginatus (Scater).

Microcerculus marginatus BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 107. Chirua, one specimen.

I refer provisionally to this species a single specimen from Onaca, collected Jan. 7, 1899.

370. Heleodytes nuchalis (Cab.).

One specimen, Cienaga, Sept. 16.

371. Heleodytes griseus (Swains.).

Camplohrynchus griseus SALV. & GODM. Ibis, 1880, 116. Santa Marta.

Nine specimens, as follows: Santa Marta, July 14; Cacagualito, May 24; Bonda, July 6, 7, and 14, Aug. 16, Nov. 29, and Dec. 5.

The young, only a few weeks from the nest, closely resemble the adults; the females differ from the males in having the head dark rufous brown instead of black, the whole top of the head being also much lighter than the mantle.

372. Donacobius atricapillus (Linn.).

Three specimens, Cienaga, Sept. 16.

373. Mimus gilvus columbianus (Cab.).

Mimus gilvus SALV. & GODM. Ibis, 1880, 116. Santa Marta.

Mimus gilvus columbianus BANGS, Proc. N. Engl. Zool. Club, I, 1899, 80. San Sebastian and El Mamon.

Six specimens, as follows: Bonda, Nov. 11 and 30, Dec. 1 and 19, and Feb. 8; Cienaga, Sept. 13.

374. [*Cinclus rivularis* Bangs.]

Cinclus rivularis BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 105. Chirua and Paramo de Chiruqua, alt. 7000-12,000 ft.]

375. [*Polioptila nigriceps* Baird.]

Polioptila nigriceps SALV. & GODM. Ibis, 1880, 116. Valencia.]

376. *Polioptila bilineata* (Bon.).

Polioptila bilineata BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144. Santa Marta.

One specimen, Bonda, Sept. 18.

377. [*Platycichla flavipes carbonaria* (Licht).]

Platycichla flavipes carbonaria BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 108. Chirua, La Concepcion, and San Miguel.]

378. *Merula olivatra* (Lafr.).

Merula olivatra BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 107. La Concepcion.

Eight specimens, taken as follows: Valparaiso, March 25-April 11; Las Nubes, Dec. 10.

The females wholly lack the black on the throat and breast and have the head brown, nearly concolor with the back, thus entirely lacking the black head of the males. In some females the throat and breast feathers are more or less edged with dusky. In young males the black feathers of the throat and breast are more or less edged with olive brown.

379. [*Merula incompta* Bangs.]

Merula incompta BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144. Santa Marta.]

380. [*Merula gigas cacozela* Bangs.]

Turdus gigas SALV. & GODM. Ibis, 1879, 198. San Sebastian.

Merula gigas cacozela BANGS, Proc. Biol. Soc. Wash. XII, 1898, 181 (Macotama); *ibid.* XIII, 1899, 107 (San Miguel, Paramo de Chiruqua, and Paramo de Macotama); *ibid.* Proc. N. Engl. Zool. Club, I, 1899, 80 (San Sebastian and El Mamon).]

381. *Merula grayi lurida* (Bon.).

Turdus grayi SALV. & GODM. Ibis, 1880, 115. Santa Marta.

Fifteen specimens, Bonda, taken as follows: June 23, July 5

(juv.) and 14, Aug. 2 and 3 (2 juv.), Sept. 18, Dec. 8-10, Feb. 25. The series contains 3 young specimens in spotted plumage.

This species is apparently resident in the coast district, but is probably absent from the region above 5000 feet, as no specimens were taken there by Mr. Smith's collectors, nor is it included in Mr. Bangs's list of the species obtained by Mr. Brown.

The present series indicates the necessity of recognizing Bonaparte's *Planesticus luridus* as at least a well-marked subspecies of *M. grayi*. Only one of the 12 specimens at all closely resembles true *grayi*, which is perhaps sufficient to imply their probable intergradation.

382. *Merula albiventris fusa* Bangs.

Merula albiventris fusa BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 107. Chirua (type locality), La Concepcion, San Miguel, and San Francisco.

Six specimens, Bonda, Dec. 16 and 22, Jan. 20, Feb. 22, and Aug. 1.

383. *Merula phaopyga minuscula* Bangs.

Merula phaopyga minuscula BANGS, Proc. Biol. Soc. Wash. XII, 1898, 181 (Palomina and Pueblo Viejo); *ibid.* XIII, 1899, 108 (La Concepcion and San Miguel).

Seven specimens: Valparaiso, 6 specimens, all adult, March 9-29 and June 6. Also a single specimen partly in first (nestling) plumage, Bonda, Aug. 27.

In this specimen the feathers of the head, neck, interscapulars, scapulars, and wing-coverts have narrow ochraceous shaft-lines, broadening at the tip of the feather on the scapulars and wing-coverts, particularly on the latter, where they take the form of wedge-shaped spots. The breast feathers are buff, broadly tipped with blackish, and the abdominal region has narrow indistinct dusky cross-bars. The bill is deep black, faintly brownish at the base of the lower mandible.

384. *Hylocichla fuscescens* (Steph.).

Three specimens, Bonda, Oct. 5, 7, and 13.

385. *Hylocichla ustulata swainsoni* (Cab.).

Turdus swainsoni SALV. & GODM. Ibis, 1880, 115. Minca, Jan. 22.

Hylocichla ustulata swainsoni BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 107. Chirua, Feb. 16.

Two specimens, Bonda, Nov. 5 and January.

386. *Hylocichla aliciae* (Baird).

Turdus aliciae BANGS, Proc. Biol. Soc. Wash. XII, 1898, 144. Santa Marta.

Sixteen specimens, as follows: Bonda, Oct. 7–Nov. 28; Las Nubes, Dec. 17; Onaca, Dec. 26 and 28; Valparaiso, March 18 and 23 and April 7.

This is evidently a winter resident, arriving early in October and remaining till into April.

387. *Catharus fuscater* (Lafr.).

Catharus fuscater BANGS, Proc. Biol. Soc. Wash. XIII, 1899, 108. Chirua.

Nine specimens, El Libano, April 29–May 2.

The males are darker throughout than the females, with a much blacker head.

388. [*Catharus aurantiirostris* (Hartlaub)].

Catharus aurantiirostris BANGS, Proc. Biol. Soc. Wash. XII, 1898, 160 and 181. Pueblo Viejo and Palomina.]

ADDITIONS AND CORRECTIONS.

Since the separates of this paper were printed and distributed my attention has been kindly called by Mr. Outram Bangs to a number of typographical errors and several omissions which I take this early opportunity to correct. One species (*Gallinago jamesoni*) is added to the list and one is removed, namely, *Helianthea* sp. (p. 139), as explained below, leaving the total number of species in the list as before.

Page 118, line 8 from bottom, for E. O. Bangs read E. A. Bangs.

Page 119, add to the list of papers there given the following:

1899. BANGS, OUTRAM. The Gray-breasted Wood Wrens of the Sierra Nevada de Santa Marta. *Proc. N. Engl. Zool. Club*, I, pp. 83, 84. Dec. 27, 1899.

This paper is cited, however, at p. 180, under *Henicorhina anchorita*.

Page 121, under No. 20 of the first list, for *Grallaria spiator* read *Grallaria spatiator*. Also make same correction on p. 159, under No. 243.

Page 121, No. 16, for *Manacus manacus abdivitus* read *Manacus manacus abditivus*. Also make the same correction on p. 155, under No. 215.

Page 121. To the list of species described as new add *Grallaria bangsi*.

Page 126. Add :

23a *Gallinago jamesoni* (Bonap.).

Gallinago jamesoni SHARPE, Cat. Bds. Br. Mus. XXIV, 1896, 661. "Sierra Nevada, U. S. Colombia, Aug. 18 (F. A. Simons)."

Page 139. Substitute for the remarks under No. 124, and for No. 125, *Helianthea* sp. the following :

Seven specimens, 2 adult males, 3 young males and 2 females, El Libano, April 25 and 27, and May 1, 12 and 14. The three young males have the rectrices broadly tipped with dusky bronze, and the feathers of the abdomen are edged with buff. The females have not been previously described, having been incorrectly recorded under No. 125 as probably "females of some species of *Helianthea*." They may be recognized by the following description :

Above uniform shining golden green ; lores and entire under surface deep cinnamon rufous, many of the feathers on the sides of the neck, sides of the breast and (more sparingly) on the flanks tipped with golden green ; lower tail-coverts a little paler and faintly blotched with dusky ; wings brownish black with a purplish reflection, the outer primary edged with buff ; wing-coverts, including the greater primary coverts, green like the back ; tail bronzy green, the apical third blackish, tipped with buffy white, the tipping increasing in length from the middle to the outer feathers, which have a buffy tip 5 mm. long. Bill black ; feet dusky flesh-color. Length, 178 ; wing, 67 ; tail, 40 ; tarsus, 4 ; bill, 30. Tarsus feathered ; tail forked, the outer feathers 7 mm. longer than the inner.

I am indebted to Mr. Bangs for the suggestion that the two female Hummingbirds recorded as "124. *Helianthea* sp." might be females of the preceding species, *Leucuria phalerata*. A re-examination of them leaves no doubt that such is the case. The buffy edging of the ventral feathers in the young males is a link in the chain of evidence.

Page 173, under No. 330, add :

Cereba luteola BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Page 173, under No. 329, correct the reference to Bangs to read :

Procnias tersa occidentalis BANGS, Proc. Biol. Soc. Wash. XII, 179.

Page 178, under No. 361, add :

Protonotaria citrea BANGS, Proc. Biol. Soc. Wash. XII, 1898, 143. Santa Marta.

Sept. 17, 1900.

J. A. ALLEN.