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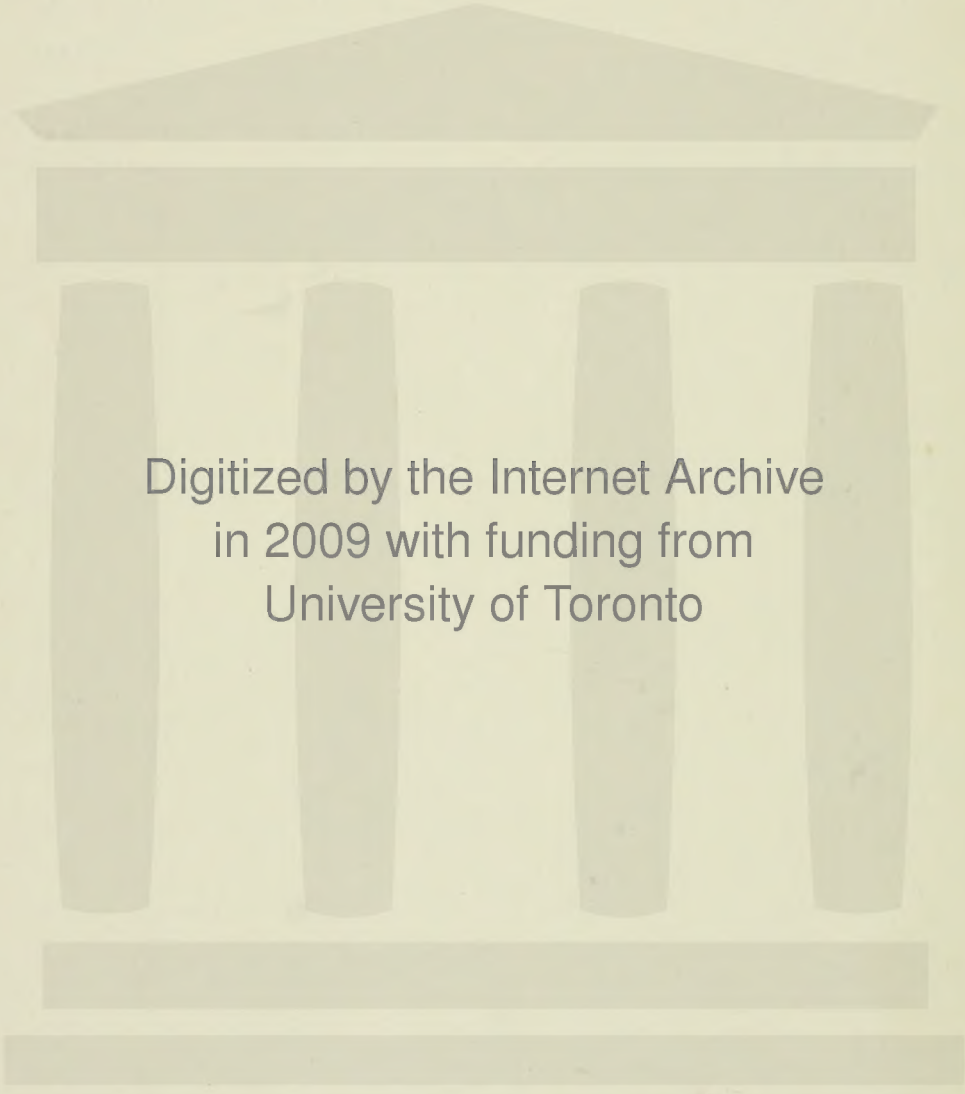
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UROCHROMA COSTARICENSIS *Cory*

FIELD MUSEUM OF NATURAL HISTORY.

PUBLICATION 197.

ZOÖLOGICAL SERIES. VOL. XIII.

CATALOGUE OF BIRDS OF THE AMERICAS

BY

CHARLES B. CORY

Curator of Department of Zoölogy.

PART II

NO. 1

CHICAGO, U. S. A.

March, 1918.

CATALOGUE

OF

BIRDS OF THE AMERICAS AND THE ADJACENT ISLANDS

IN

FIELD MUSEUM OF NATURAL HISTORY

AND

Including all species and subspecies known to occur in North America, Mexico, Central America, South America, the West Indies, and Islands of the Caribbean Sea, the Galapagos Archipelago, and other islands which may properly be included on account of their faunal affinities.

BY

CHARLES B. CORY

Curator of Department of Zoölogy.

PART II

NO. 1

Family Bubonidæ
Family Tytonidæ
Family Psittacidæ
Family Steatornithidæ
Family Alcedinidæ
Family Todidæ
Family Momotidæ
Family Nyctibiidæ
Family Caprimulgidæ
Family Cypselidæ
Trochilidæ

CHICAGO, U. S. A.

March, 1918.

change the fact is indicated by the presence of a † preceding the number of specimens.

Classification: In the present state of our knowledge of birds of the world no system of classification yet evolved can be considered as more than tentative. That proposed by Gadow (1892) has much to recommend it, but in a work of this character, convenience of reference is an important factor to be considered and I have, therefore, adopted the sequential arrangement proposed by Sharpe in 1891 (and used in his Hand List of Birds and later practically by Brabourne and Chubb in their List of Birds of South America) for the Orders and Families, but numerous changes in the nomenclature and arrangement of Genera and species were unavoidable, being obviously desirable to conform with their more modern usage.

I am greatly indebted to the authorities of our leading Museums and others for so generously granting requests for the loan of specimens (including many types) and acknowledgments for such courtesies will be made later, but I wish here to especially express my thanks to Dr. Frank M. Chapman, Professor Robert Ridgway, Dr. C. W. Richmond, Dr. Witmer Stone, and Mr. Outram Bangs for much valuable information which has greatly aided me in my work.

CHARLES B. CORY.

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SYSTEM OF CLASSIFICATION OF ORDERS, SUB-ORDERS AND FAMILIES ADOPTED IN THIS WORK

CLASS AVES.

Sub-Class Ratitae.

Order RHEIFORMES.

Family Rheidae—Rheas.

Sub-Class Carinatae.

Order TINAMIFORMES.

Family Tinamidae—Tinamous, etc.

Order GALLIFORMES.

Suborder Penelopes.

Family Cracidae—Currassows and Guans.

Suborder Phasiani.

Family Phasianidae—Pheasants.
" Meleagridae—Turkeys.
" Tetraonidae—Grouse, Ptarmigans, etc.
" Odontophoridae—Quails, etc.

Order Columbiformes.

Suborder Columbae.

Family Columbidae—Pigeons and Doves.

Order OPISTHOCOMIFORMES.

Family Opisthocomidae—Hoatzins.

Order Ralliformes.

Family Rallidae—Rails, Gallinules and Coots.
" Heliornithidae—Heliornis.

Order PODICIPEDIFORMES.

Family Podicipedidae—Grebes.

Order Colymbiformes.

Family Gavidae—Loons.

Order Spheniscifórmes.

Family Spheniscidae—Penguins.

Order PROCELLARIIFORMES.

Family Procellariidae—Petrels, Shearwaters, etc.
" Pelecanoididae—Diving Petrels.
" Diomedeidae—Albatrosses.

Order ALCIFORMES.

Family Alcidae—Auks and Puffins.

Order Lariformes.

Family Stercorariidae—Jaegers and Skuas.
" Laridae—Gulls and Terns.
" Rhynchopidae—Skimmers.

Order Charadriiformes.

Suborder Chionides.

Family Chionidae—Sheath-bills.

Suborder Attagides.

Family Thincorythidae—Seed Snipes.

Suborder Charadrii.

Family Phalaropodidae—Phalaropes.
" Recurvirostridae—Stilts and Avocets.
" Scolopacidae—Snipes and Sandpipers.
" Charadriidae—Plovers.
" Aphrizidae—Turnstones and Surf-birds.
" Oedicnemidae—Thick-knees.
" Haematopodidae—Oyster Catchers.

Suborder Jacanae.

Family Jacanidae—Jacanas.

Order GRUIFORMES.

Suborder Grues.

Family Gruidae—Cranes.

Suborder Arami.

Family Aramidae—Courlans.

Suborder Eurypygae.

Family Eurypygidae—Sun-bitterns.

Suborder Psophiae.

Family Psophiidae—Trumpeters.

Suborder Dicholophi.

Family Cariamidae—Cariamas.

Order ARDEIFORMES.

Suborder Ibides.

Family Ibididae—Ibises.
" Plataleidae—Spoon-bills.

Suborder Ciconiae.

Family Ciconiidae—Storks, Jabirus, etc.

Suborder Herodii.

Family Ardeidae—Herons, Bitterns, Egrets, etc.
" Cochleariidae—Boat-billed Herons.

Order PALAMEDEIFORMES.

Family Palamedeidae—Screamers.

Order POENICOPTERIFORMES.

Family Phoenicopteridae—Flamingoes.

Order ANSIFORMES.

Family Anatidae—Ducks, Geese, Swans, etc.

Order PELECANIFORMES.

Family Phalacrocoracidae—Cormorants.
" Anhingidae—Darters.
" Sulidae—Gannets.
" Fregatidae—Man-o-war Birds.
" Phaethontidae—Tropic Birds.
" Pelecanidae—Pelicans.

Order RAPTORES.

Suborder Sarcorhamphi.

Family Cathartidae—Vultures, Condors, etc.

Order ACCIPITRIFORMES.

Family Buteonidae—Hawks, Eagles, etc.
" Falconidae—Falcons, Caracaras, etc.
" Pandionidae—Ospreys.

Order Strigiformes.

Family Bubonidae—Owls.
" Tytonidae—Barn Owls.

Order Psittaciformes.

Family Psittacidae—Parrots, Parroquets, etc.

Order CORACIFORMES.

Suborder Steatornithes.

Family Steatornithidae—Oil Birds.

Suborder Alcyones.

Family Alcedinidae—Kingfishers.

Suborder Todi.

Family Todidae—Todies.

Suborder Momoti.

Family Momotidae—Motmots.

Suborder Caprimulgi.

Family Nyctibiidae—Potoos.
Caprimulgidae—Whipporwills, Night-hawks, Goat-suckers, etc.

Suborder Cypseli.

Family Cypselidae—Swifts.

Suborder Trochili.

Family Trochilidae—Humming Birds.

Order TROGONES.

Family Trogonidae—Trogons.

Order COCCYGES.

Suborder Cuculi.

Family Cuculidae—Cuckoos.

Order SCANSORES.

Suborder Capitones.

Family Capitonidae—Barbets.

Suborder Rhamphastides.

Family Rhamphastidae—Toucans.

Order PICIFORMES.

Suborder Galbulae.

Family Galbulidae—Jacamars.

Suborder Buccones.

Family Bucconidae—Puff Birds.

Suborder Pici.

Family Picidae—Woodpeckers.

Order PASSERIFORMES.

Suborder Mesomyodi.

Family Hylactidae—Babblers.
" Conopophagidae—Gnateaters or ant-pipits.
" Formicardiae—Ant Birds.
" Dendrocolaptidae—Wood-hewers and Tropical Oven Birds.
" Tyrannidae—Flycatchers.
" Oxyrhamphidae—Sharp-bills.
" Pipridae—Manakins.
" Cotingidae—Chatterers.
" Phytotomidae—Plant-cutters.

Suborder Acromyodi.

Family Hirundinidae—Swallows.
" Sylviidae—Kinglets, Gnat-catchers and Old World Warblers.
" Trogolodytidae—Wrens.
" Cinclidae—Dippers.
" ?Calyptophilidae*—Chat Thrashers.
" Mimidae—Mocking Birds.
" Zelidoniidae—Wren Thrashers.
" Turdidae—Thrushes.
" Vireonidae—Vireos.
" Bombycillidae—Waxwings.
" Ptilogonatidae—Silky Flycatchers.
" Dulidae—Palm Chats.
" Lanidae—Shrikes.
" Paridae—Titmice.
" Chamaeidae—Wren Tits.
" Sittidae—Nuthatches.
" Certhidae—Creepers.
" Mniotiltidae—Warblers.
" Motacillidae—Wagtails and Pipits.
" Alaudidae—Larks.
" Catamblyrhynchidae—Plush-capped Finches.
" Fringillidae—Finches.
" Coerebidae—Honey Creepers.
" Tersinidae—Swallow Tanagers.
" Tanagridae—Tanagers.
" Ploceidae—Weaver-birds.
" Icteridae—Orioles, etc.
" Sturnidae—Starlings.
" Corvidae—Crows, Jays and Ravens.

*The monotypic genus may later be considered to represent a subfamily.

Order STRIGIFORMES.

Family BUBONIDAE. Owls.

Genus ASIO Brisson.

Asio Brisson, Orn. I, 1760, p. 477 (Type *Asio asio* Brisson = *Strix otus* Linn.).

***Asio wilsonianus** (*Lesson*). LONG-EARED OWL.

Otus wilsonianus LESSON, Traite d'Orn., 1831, p. 110 (New York, U. S. A.).
Strix otus (not of LINN.) Audubon, Orn. Biog., IV, 1838, p. 572, pl. 383.
Asio americanus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 229.
Asio wilsonianus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 654.

Range: Whole of Temperate North America south to central Mexico.

†13 specimens from North America: (Maine 1, Massachusetts 1, Connecticut 2, Wisconsin 1, Illinois 1, Colorado 2, New Mexico 3 and California 2).

***Asio stygius** (*Wagler*). STYGIAN OWL.

Nyctalops stygius WAGLER, Isis, 1832, p. 1221 (Brazil).
Asio stygius SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 241; Cory, Auk, 1886, p. 466; Id., Bds. West Indies, 1889, p. 189; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 658; TODD, Ann. Carnegie Mus., X, 1916, p. 235.

Range: Southern Mexico to Brazil and northern Argentina, Cuba, and Isle of Pines.

3: Nicaragua 1; Colombia 1; Island of Cuba 1.

Asio noctipetens[a] *Riley*. SANTO DOMINGO OWL.

Asio noctipetens RILEY, Smith. Misc. Coll., Vol. 66, No. 15, 1916, p. 1 (Constanza, atl. 4000 ft., Santo Domingo).

Range: Santo Domingo, Island of Haiti, Greater Antilles.

***Asio flammeus flammeus** (*Pontopp.*). SHORT-EARED OWL.

Strix flammea PONTOPPEDAN, Danske Atlas, I, 1763, p. 617, pl. 25 (Sweden).
Asio accipitrinus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 234, part; CORY, Auk. 1886, p. 468; *Id.*, Bds. West Indies, 1889, p. 100.
Otus brachyotus AUDUBON, Bds. Am., Oct., ed. I, 1840, p. 140, pl. 38.

[a] *Asio noctipetens* RILEY: "Similar to *Asio stygius* (WAGLER), but much darker, with the lighter markings much restricted everywhere and entirely disappearing on the interscapular region. Wing, 300; tail, 161; culmen from cere 21 mm." (Riley l. c.)

Asio flammea SCOTT & SHARPE, Rep. Princeton Univ. Exped. to Patagonia, 1915, p. 674.

Asio flammeus flammeus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 661.

Range: Whole of North and South America and whole of Palaearctic Region.

†15 North America: (Massachusetts 7, Illinois 3, Indiana 2, Wisconsin 1, Kansas 1, and California 1).

Asio flammeus bogotensis[a] *Chapman.* COLOMBIAN SHORT-EARED OWL.

Asio flammeus bogotensis CHAPMAN, Bull. Am. Mus. N. H., XXXIV, 1915, p. 370 (Bogota Savanna, Colombia).

Range: Savannas of Bogota Region, Colombia.

***Asio portoricensis** *Ridgway.* PORTO RICAN SHORT-EARED OWL.

Asio portoricensis RIDGWAY, Proc. U. S. Nat. Mus., 1882, p. 366 (Porto Rico); CORY, Auk, 1886, p. 468; *Id.*, Bds. West Indies, 1889, p. 191; WETMORE, Bull. U. S. DEPT. Agri., No. 326, 1916, p. 67.

Range: Island of Porto Rico, Greater Antilles.

1: Porto Rico.

Asio galapagoensis galapagoensis (*Gould*). GALAPAGOS SHORT-EARED OWL.

Otus galapagoensis GOULD, Proc. Zool. Soc., Lond., 1837, p. 10 (Galapagos Archipelago).

Asio galapagoensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 668.

Range: Islands of Galapagos Archipelago.

Asio galapagoensis aequatorialis[b] *Chubb.* EQUATORIAN SHORT-EARED OWL.

Asio galapagoensis aequatorialis CHUBB, Bull. Brit. Orn. Cl., 1916, p. 46 (Pichincha, 11,000 ft. Ecuador).

Range: Ecuador.

Asio macrurus (*Kaup*).[c] KAUP'S OWL.

Otus macrurus KAUP, Trans. Zool. Soc. Lond., IV, 1859, p. 232, (Mexico).

Asio macrurus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 242, footnote.

Range: Mexico?

[a] *Asio flammeus bogotensis* CHAPMAN — "Similar to *A. f. flammeus* (PONTOPP.): but ochraceous markings above much more restricted, or in places, obsolete; the upper parts, therefore, darker; tarsi and toes less heavily feathered, the feathered area on the latter less extended toward the nail; size averaging smaller, bill somewhat heavier and wholly black" (Chapman, l.c.).

[b] *Asio galapagoensis aequatorialis* CHUBB — "Allied to *A. g. galapagoensis* (GOULD) but larger and dull black above with pale fulvous and white markings to the feathers instead of brown with sandy rufous markings; buff color of under parts paler and dark shaft lines more restricted; wing, 3.22; tail, 1.53 mm.

[c] An unidentified species which may not belong to this Genus.

Genus **RHINOPTYNX** Kaup.

Rhinoptynx Kaup, Archiv. für Naturg., XVII, 1851, p. 107 (Type *Otus mexicanus* Cuv. = *Bubo clamator* Vieill.).

***Rhinoptynx clamator** (*Vieill.*). STRIPED OWL.

Bubo clamator Vieill., Ois Am. Sept., I, 1857, p. 52, pl. 20 ("depius Caienne" etc. = Cayenne, type locality designated by Hellmayr — "Spix's Types," 1906, p. 574).

Strix longirostris SPIX, Av. Bras., I, 1824, p. 20, pl. 9 a.

Asio mexicanus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 231.

Asio clamator CHUBB, Bds. Brit. Guiana, I, 1916, p. 283.

Rhinoptynx clamator RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 671.

Otus clamator DESCOURTILZ, Orn. Bras., 1852, Pl. 5, Fig. 1.

Range: Greater portion of South America from Colombia and Guiana south to Paraguay.

3: Venezuela (Maracay and Lake Valencia).

Rhinoptynx midas (*Schlegel*).[a] MONTEVIDEO STRIPED OWL.

Otus midas SCHLEGEL, Mus. Pas-Bas Oti, 1862 p. 2, note. (Montevideo).

Asio midas SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 231, footnote; DABBENE, Bol. Soc. Physis 1, 1914, p. 305 (Tucuman).

Range: Uruguay and Southern Brazil, N. Argentine.

Genus **PSEUDOSCOPS** Kaup.

Pseudoscops Kaup, Isis, 1848, p. 769; Trans. Zool. Soc. Lond., IV, pt. VI, 1859, p. 231 (Type *Ephialtes grammicus* Gosse).

***Pseudoscops grammicus** (*Gosse*). JAMAICAN LONG-EARED OWL.

Ephialtes grammicus GOSSE, Bds. Jamaica, 1847, p. 19 (Tait-Shafton, Jamaica); *Id.*, Illust. Bds. Jamaica, 1849, pl. 4.

Asio grammicus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 242.

Pseudoscops grammicus CORY, Auk, 1886, p. 465; *Id.*, Bds. West Indies, 1889, p. 188; Scott, Auk, 1892, p. 127; Ridgway, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 674.

Range: Island of Jamaica, Greater Antilles.

5: Jamaica.

Genus **BUBO** Dumeril.

Bubo DUMERIL, Zool. Analytique, 1806, p. 34 (Type *Strix bubo* LINN.); (OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, pp. 177–192; Id. Bull. Mus. Brooklyn Inst., Arts & Sci., No. 14, 1908, p. 372).

[a] *Rhinoptynx midas* (SCHLEGEL) — According to Schlegel this is allied to *R. clamator* (Vieill.), but is larger (wing, 11.6 in, tail, 5.9). It may prove to be only subspecifically separable from that species.

***Bubo virginianus virginianus** (*Gmel.*). GREAT HORNED OWL.

[*Strix*] *virginiana* GMELIN, Syst. Nat., I, pt. 1, 1788, p. 287 (Virginia); AUDUBON, Orn. Biog., I, 1831, p. 313, pl. 61.

Bubo virginianus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 19, part.

Bubo virginianus virginianus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 739.

Range: Eastern United States and southern Canada, west to eastern edge of the Great Plains.

†20: North America (Massachusetts 6, Florida 6, Ohio 1, Indiana 5, Illinois 1, and Wisconsin 1).

Bubo virginianus icelus (*Oberholser*). COAST GREAT HORNED OWL.

Asio magellanicus icelus OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 185 (San Louis Obispo, California).

Bubo virginianus icelus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 746.

Range: Coast of California, from about latitude 35° north to the region of San Francisco Bay.

***Bubo virginianus pacificus** *Cassin*. CALIFORNIA GREAT HORNED OWL.

Bubo virginianus pacificus CASSIN, Illustr. Bds. California, Texas, etc., 1854, p. 178 (Southern California[a]); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 745.

Range: Whole of California (except middle coast region and southeastern Desert region, "Colorado Desert"), north to southern Oregon and east to central Arizona.

1: "California."

***Bubo virginianus pallescens** *Stone*. PALLID GREAT HORNED OWL.

Bubo virginianus pallescens STONE, Am. Nat., XXXI, 1897, p. 237 (Watson's Ranch, 18 miles S. W. of San Antonio, Texas); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 742.

Range: Central Texas to Arizona and desert region of southeastern California; northern Mexico.

3: Arizona 1; and New Mexico 2.

***Bubo virginianus occidentalis** *Stone*. WESTERN GREAT HORNED OWL.

Bubo virginianus occidentalis STONE, Auk, 1896, p. 155 (Mitchell County, Iowa); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 743.

Range: Central North America, from Assiniboa and Manitoba, south to Kansas, New Mexico, and Utah, and from southeastern Oregon, east to Minnesota, Kansas, etc.

1: Manitoba.

[a] See Stone, Auk, 1896, p. 155.

Bubo virginianus algistus (*Oberholser*). ST. MICHAEL'S GREAT HORNED OWL.

Asio megellanicus algistus OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 190 (St. Michaels, Alaska).

Bubo virginianus algistus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 750.

Range: Coast district of northwestern Alaska, north of Alaska Peninsula.

***Bubo virginianus wapacuthu** (*Gmel.*). ARCTIC GREAT HORNED OWL.

Strix wapacuthu GMELIN, Syst. Nat., I, 1788, p. 290 (Hudson Bay region, North America).

Bubo virginianus articus Am. Orn. Union Check List, Ed. I, 1886, and Ed. 2, 1895, No. 375b.

Bubo virginianus subarcticus Am. Orn. Union Check List, 3 Ed., 1910, p. 175.

Bubo virginianus wapacuthu RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 751.

Range: Northern and central Canada from Hudson Bay to Valley of Mackenzie River, southward to northern Manitoba, and in winter to Wisconsin, Idaho, etc.

3: Canada (Alberta, Saskatchewan).

Bubo virginianus lagophonus (*Oberholser*). NORTH WESTERN GREAT HORNED OWL.

Asio virginianus logophonus OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 185 (Fort Walla Walla, State of Washington, U. S. A.).

Bubo virginianus logophonus RIDGWAY, Bull. U. S., Nat. Mus., No. 50, VI, 1914, p. 747.

Range: Idaho, northeastern Oregon, eastern Washington, and north to upper Yukon Valley, Alaska.

***Bubo virginianus saturatus** *Ridgway*. DUSKY HORNED OWL.

Bubo virginianus saturatus RIDGWAY, Orn. Fortieth Parallel, 1877, p. 572, footnote (Sitka, Alaska); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 748; SWARTH, Univ. California, Pub. VII, 1911, p. 65 (Douglas I., Alaska).

Range: Pacific coast region, from northern California to southern Alaska (Sitka, Douglas Islands, etc.).

3: "British Columbia."

***Bubo virginianus heterocnemis** (*Oberholser*). LABRADOR GREAT HORNED OWL.

Asio magellanicus heterocnemis OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 187 (Lauce au Loux, Labrador).

Bubo virginianus heterocnemus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 750.

Range: Coast region of Labrador and Ungava, south in winter to southern Ontario and Newfoundland.

1: Labrador.

Bubo virginianus neochorus *Oberholser.*[a] NEWFOUNDLAND GREAT HORNED OWL.

Bubo virginianus neochorus OBERHOLSER, Proc. Biol. Soc., Wash., XXVII, 1914, p. 46 (Fox Island River, Newfoundland).

Range: Newfoundland and Nova Scotia.

Bubo virginianus mesembrinus (*Oberholser*). COSTA RICAN GREAT HORNED OWL.

Asio megellanicus mesembrinus OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 179 (San Jose, Costa Rica).

Bubo virginianus mesembrinus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 754.

Range: Costa Rica and Western Panama.

Bubo virginianus melancerus (*Oberholser*). OAXACA GREAT HORNED OWL.

Asio megellanicus melancerus OBERHOLSER, Proc. U. S. Nat. Mus., XXVII, 1904, p. 180 (Tehuantepec City, Oaxaca, Guatemala).

Bubo virginianus melancerus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 753.

Range: Central Mexico to Guatemala.

Bubo virginianus mayensis *Nelson.* YUCATAN GREAT HORNED OWL.

Bubo virginianus mayensis NELSON, Proc. Biol. Soc. Wash., XIV, 1901, p. 170 (Chicken-Itza, Yucatan); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 753.

Range: Yucatan and British Honduras.

Bubo virginianus elachistus *Brewster.* DWARF GREAT HORNED OWL.

Bubo virginianus elachistus BREWSTER, Bull. Mus. Comp. Zool., XLI, 1902, p. 96 (Serra de la Laguna, Lower California); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 746.

Range: Southern Lower California (Victoria Mts., etc.)

[a] *Bubo v. neochorus* OBERHOLSER: "Similar to *Bubo v. heterocnemis* (OBERHOLSER), but smaller, excepting the bill; upper parts lighter, the dark ground color less deep and more broken; the light markings more numerous; under parts rather less of dark color; feet and legs heavily mottled with dark brown. Male, wing, 345 mm.; female, about 3.70 mm.

***Bubo virginianus megellanicus** *Daudin.* MAGELLAN'S GREAT HORNED OWL.

Bubo magellanicus DAUDIN, Trans. d'Orn., II, 1800, p. 210 (Strait Magellan); SCOTT and SHARPE, Rep. Princeton, Univ. Exped. to Patagonia, Vol. II, Pt. IV, 1915, p. 683.

Bubo virginianus magellanicus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 739, in key.

Bubo nacurutu (VIEILL.), BRABOURNE & CHUBB, Bds. S. A., I, 1912, p. 74, No. 684.

Range: Southern South America, north to Peru, Paraguay and southern Brazil.

1: "Patagonia."

Bubo virginianus deserti (*Reiser*).[a] DESERT GREAT HORNED OWL.

Bubo magellanicus deserti REISER, Anz. Akad. Wien., No. XVIII, 1905, p. 324 ("Salitres bei Joazeiro," N. E. Brazil).

Range: East and Northeast Brazil.

Bubo virginianus scotinus[b] *Oberholser.* VENEZUELAN GREAT HORNED OWL.

Bubo virginianus scotinus OBERHOLSER, Bull. Mus. Brooklyn Inst., Art & Sci., I, No. 14, 1908, p. 371 (Cacare Orinoco, Venezuela).

Bubo scotinus CHUBB, Bds. Brit. Guiana, I, 1916, p. 285.

Range: Venezuela.

Bubo virginianus elutus[c] *Todd.* COLOMBIAN GREAT HORNED OWL.

Bubo virginianus elutus TODD, Proc. Biol. Soc. Wash., XXX, 1917, p. 6 (Lorica, Bolivar, Colombia).

Range: Colombia.

Bubo virginianus nigrescens[d] (*Berlepsch*). ECUADOR GREAT HORNED OWL.

Bubo nigrescens BERLEPSCH, Proc. Zool. Soc. Lond., 1884, p. 309 (Mountains of western Ecuador, Ceche 10,000 ft.).

Bubo virginianus nigrescens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 738, in key.

Range: Western Ecuador.

[a] *Bubo v. deserti* REISER: General color showing but little or no ochraceous brown, being largely gray mixed with whitish and blackish; decidedly paler than true *B. v. magellanicus* DAUD.

[b] *Bubo v. scotinus* OBERHOLSER: Upper parts blackish brown, much mottled, with tawny ochraceous buff and buffy white; barring of under parts much heavier and general color much darker than in *B. v. magellanicus* DAUD.

[c] *Bubo v. elutus* TODD: Similar to *B. v. scotinus* OBERHOLSER, but upper parts paler and less rufescent; legs more heavily mottled with dusky; differs from *B. v. mesembrinus* OBERHOLSER, in being much less rufescent above and below.

[d] *Bubo v. nigrescens* (BERLEPSCH): Little, if any, rufous and tawny in plumage; feet slightly mottled; general plumage very dark; wing, about 3.50 mm.

Genus **NYCTEA** Stephens.

Nyctea STEPHENS, Shaw's Gen. Zool., XIII, 1826, p. 63 (Type *Strix erminea* Shaw = *S. nyctea* Linn.).

*Nyctea nyctea (*Linn.*). SNOWY OWL.

Strix nyctea LINNAEUS, Syst. Nat. ed. 10, 1758, p. 93 (Sweden); AUDUBON, Orn. Biog., II, 1834, p. 135, pl. 121.
Nyctea scandiaca SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 125.
Nyctea nivea (GRAY) Gould, Bds. Great. Brit., I, 1863, pl. 34 and text.
Nyctea nyctea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 768.

Range: Northern portion of northern Hemisphere; from the arctic circle southward; in North America south in winter to more northern United States and casually or rarely to South Carolina, Texas, etc.

7: Alaska 1; South Dakota 1; New York 1; Massachusetts 2; and Illinois 2.

Genus **PULSATRIX** Kaup.

Pulsatrix Kaup, Isis, 1848, p. 771 (Type *Strix torquata* Daud. = *S. perspicillata* Latham). (Berlepsch, Bull. Brit. Orn. Club, XII, 1901, pp. 4–6.).

*Pulsatrix perspicillata perspicillata (*Latham*). SPECTACLED OWL.

Strix perspicillata LATHAM, Index Orns., I, 1790, p. 58 (Cayenne).
Pulsatrix perspicillata CHUBB, Bds. Brit. Guiana, I, 1916, p. 286; Stone, Proc. Acad. Nat. Sci., Phila., 1913, p. 196 (Cariaquito, Venezuela).
Pulsatrix perspicillata perspicillata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 756.
Syrnium perspicillatum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 77, part; BANGS, Proc. Biol. Soc. Wash., XII, 1898, p. 132 (Santa Marta); ALLEN, Bull. Am. Mus. N. H., XIII, 1900, p. 131 (Santa Marta).

Range: Northern South America, from Amazon River region, northward, and eastern Panama.

4: Colombia 1; Venezuela 1; British Guiana 1; and Paramaribo 1.

*Pulsatrix perspicillata saturata[a] *Ridgway*. SOOTY SPECTACLED OWL.

Pulsatrix perspicillata saturata RIDGWAY, Bull. U. S. Nat Mus., No. 50, VI, 1914, p. 758 (Santo Domingo, Oaxaca, Mexico).

Range: Southern Mexico to eastern Panama; Colombia?

2: San Salvador, and Nicaragua.

[a] *Pulsatrix perspicillata saturata* RIDGWAY: Like *P. p. perspicillata* (LATHAM), but darker; upper parts, except wings and tail, sooty black or very dark sooty brown; chest very dark sooty brown or sooty blackish (instead of sooty grayish brown) and lower under parts deeper buff, sometimes deep cinnamon buff, etc.

Pulsatrix pulsatrix pulsatrix[a] (*Maximilian*). WIED'S OWL.

Strix pulsatrix MAXIMILIAN, Reis. Bras., I, 1820, footnote (Rio Grande do Belmonte, S. Brazil).

Pulsatrix pulsatrix pulsatrix RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 755 footnote.

Range: Southern Brazil.

***Pulsatrix pulsatrix melanota** (*Tschudi*). BLACK-BACKED OWL.

Noctua melanota TSCHUDI, Archiv. für Naturg., 1844, p. 267 (Peru).

Syrnium melanotum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 280.

Pulsatrix pulsatrix melanota RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 755, footnote.

Pulsatrix melanota BERLEPSCH, Bull. Brit. Orn. Club, XII, 1901, p. 6, in text.

Range: Peru, and Ecuador.

1: "Colombia."

Pulsatrix pulsatrix sharpei[b] (*Berlepsch*). SHARPE'S OWL.

Pulsatrix sharpei BERLEPSCH, Bull. Brit. Orn. Club, XII, 1901, p. 6 (Province of Espirito Santo, eastern Brazil); HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 158 (Esperito Santo Serro do mar Parana; Sao Paulo and Rio de Janeiro).

Pulsatrix pulsatrix sharpei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 755, footnote.

Range: Paraguay to S. E. Brazil (Parana to Espirito Santo, etc.).

Genus **OTUS** Pennant.

Otus Pennant, Indian Zool., 1769, p. 3 (Type *O. bakkamaena* Pennant).

***Otus choliba choliba** (*Vieill.*). CHOLIBA SCREECH OWL.

Strix choliba VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 39 (Paraguay).

Scops brasilianus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 108, part.

Otus choliba RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 711, part.

Pizorhina choliba CHUBB, Ibis. 1910, p. 75 (Paraguay).

Range: Paraguay, South Brazil and Argentina.

1: Argentine (Prov. Tucuman).

[a] *Pulsatrix pulsatrix pulsatrix* (MAXIMILIAN): According to Berlepsch (Bull. B. O. C., XII, 1901, p. 5) this is quite distinct from *P. perspicillata* LATHAM. *P. p. pulsatrix* is larger and the upper parts, head, throat, and crest, are much lighter brown (light chocolate instead of blackish brown) and quite uniform in shade, while in *P. perspicillata* the head and upper parts of back are much blacker than the remaining portions. The abdomen of *pulsatrix* is dark fulvous brown (not ochraceous buff as in *P. perspicillata*) and other characters.

[b] *Pulsatrix pulsatrix sharpei* (BERLEPSCH): Somewhat larger than *P. melanota* (TSCHUDI) and differs from it in having the belly pale fulvous brown with almost obsolete darker bands (instead of belly whitish with dark brown bands); upper parts more chocolate brown (not so socty brown); the pale patch on middle of chest and the superciliary stripe is fulvescent (instead of nearly white) and other characters.

***Otus choliba crucigerus**[a] (*Spix*). SPIX'S SCREECH OWL.

Strix crucigera SPIX, Av. Bras., I, 1824, p. 22, pl. 9 (Amazon River Region).
Pisorhina choliba crucigera HELLMAYR, Nov. Zool., XIII, 1906, p. 45; Ib. Abh. K. Bayer, Akad. Wiss., München, II, 1906, p. 575.
Otus choliba crucegera HELLMAYR and SEILERN, Archiv. für Naturg., Ab. A. Heft 5, p. 158.
Otus roraimae SALVIN, Bull. Brit. Orn. Club, VI, 1897, p. 38.
Otus crucigerus CHUBB, Bds. Brit. Guiana, I, 1916, p. 287.

Range: Northern Brazil, East Peru, Guiana, Trinidad, Venezuela, Colombia, Panama, and Costa Rica.

9: Colombia 4; Venezuela 3; British Guiana 1; Peru (Moyobamba) 1.

***Otus choliba decussatus**[b] (*Licht.*). LICHTENSTEIN'S SCREECH OWL.

Strix decussata LICHTENSTEIN, Verz. Doubl. Berliner Mus., 1823, p. 59 (Bahia).
Pisorhina choliba decussata HELLMAYR, Nov. Zool., XV, 1908, p. 90.

Range: East-central and East Brazil (Bahia, Goyaz, etc.).

2: Brazil (Bahia).

***Otus choliba margaritae**[c] *Cory*. MARGARITAN SCREECH OWL.

Otus choliba margaritae CORY, Field Mus. Pub., No. 182, Orn. Ser., Vol. I, 8, 1915, p. 298 (Margarita I, off Venezuela.

Range: Margarita I., (off Venezuela).

3: Margarita Island.

Otus ingens (*Salvin*)[d] SALVIN'S SCREECH OWL.

Scops ingens SALVIN, Bull. Brit. Orn. Club, VI, 1897, p. 37 (Ecuador).
Otus ingens BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 75, No. 695.

Range: Ecuador.

Otus atricapillus (*Temm.*). BLACK-HEADED SCREECH OWL.

Strix atricapillus TEMMINCK, Pl. Col., II, 1823, pl. 145 (Brasil).
Otus atricapillus DABBENE Bol. Soc. Physis I, 1914, p. 306.
Scops sanctae-catarinae SALVIN, Bull. Brit. Orn. Club, VI, 1897, p. 37.*

Range: East and south Brazil, Paraguay, N. E. Argentine.

[a] *Otus choliba crucigerus* SPIX: Larger, and averaging more rufescent than *O. c.* decussatus (Licht.); wing (males), averaging about 1.70 mm.

[b] *Otus choliba decussatus* (LICHT.): Differs from *O. c. choliba* (Vieill.) in average smaller size and paler upper parts.

[c] *Otus choliba margaritae* CORY: Similar to *O. c. crucigerus* (SPIX) but smaller and paler and the quadrate pale markings on the outer primaries much more white; wing, 1.50 mm.; tail, 85 mm.

NOTE.— The differences separating several of the supposed subspecies of *Otus choliba*, while not very pronounced, are apparently constant and seem to represent regional variation; unfortunately, sufficiently large series from the different regions are not available to determine this question.

[d] *Otus (choliba?) ingens* SALVIN: Similar to *O. choliba* (Vieill.), but more deeply colored and larger; wing, 8.2 in. (This bird is unknown to me.)

* *Cf.* Hellmayr, Nov. Zool., XVII, 1914, p. 414, in text.

Otus watsonii (*Cassin*).[a] WATSON'S SCREECH OWL.

Ephialtes watsonii CASSIN, Proc. Acad. Phila., IV, 1848, p. 123 (South America); *Id.*, Journ. Acad. Nat. Sci. Phila., II, 1852, p. 95, pl. XII, Fig. 1.

Scops usta SCLATER, Trans. Zool. Soc. Lond., IV, 1862, p. 265, tab. 61.[b]

Pishorina watsoni HELLMAYR, Nov. Zool., XIV, 1907, p. 407; SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 145.

Otus watsoni HELLMAYR, Nov. Zool., XVII, 1910, p. 414; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 253.

Pisorhina usta SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 145 (Rio Tapajoz).

Range: Eastern Peru, Ecuador, S. Venezuela, S. E. Colombia, Brazil, N. Argentine.

Otus guatemalae (*Sharpe*). GUATEMALAN SCREECH OWL.

Scops brasilianus Subsp. B. *Scops guatemalae* SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 112 (Guatemala).

Otus guatemalae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 715.

Scops guatemalae SHARPE, Cat. Bds. Brit. Mus., II, 1875, pl. IX (larger fig.).

Range: Southeastern Mexico to Guatemala; West Ecuador?

Otus hastatus hastatus (*Ridgway*). MAZATLAN SCREECH OWL.

Megascops hastatus RIDGWAY, Proc. U. S. Nat. Mus., X, 1887, p. 268 ("La Pa, Lower California" = probably Mazatlan, Sinaloa, Mexico, according to Ridgway).

Scops hastatus SALVIN and GODMAN, Biol. Centr. Am. Aves., III, 1897, p. 23.

Otus hastatus hastatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 718.

Range: Western Mexico (Sinaloa, Jalisco, Tepic).

Otus hastatus thompsoni (*Cole*). YUCATAN SCREECH OWL.

Otus hastatus thompsoni COLE, Bull. Mus. Comp. Zool., I, 1906, p. 123 (Chichen-Itza, Yucatan).

Otus hastatus thompsoni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 719.

Range: Yucatan.

Otus cassini (*Ridgway*). CASSIN'S SCREECH OWL.

[*Scops brasilianus*] *E. cassini* RIDGWAY, Proc. U. S. Nat. Mus., I, 1878, p. 90, 102 (Mirador, Vera Cruz, Mexico).

Otus cassini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 720.

Range: Eastern Mexico (State of Vera Cruz).

[a] *Otus watsonii* CASSIN: Approaches *O. c. crucigera* (SPIX); differs in having much longer ear tufts, which are almost uniform black, with only a few minute dots of buff on inner webs of the feathers; pileum blackish; back and tail blackish brown (much darker than in *O. choliba*) with narrow buff vermiculations; no buff spots on upper wing coverts; under parts deep fulvous (not whitish with buff patches).

[b] *Cf.* Berlepsch, Bull. Brit. Orn. Club, XII, 1901, p. 10; Hellmayr, Nov. Zool., XIV, 1907, p. 402; Chapman, Bull. Am. Mus. N. H., XXXVI, 1917, p. 253.

Otus barbarus (*Sclater and Salvin*). BEARDED SCREECH OWL.

Scops barbarus SCLATER and SALVIN, Proc. Zool. Soc., Lond., 1868, p. 56 (Santa Barbara, Vera Paz, Guatemala); *Id.*, Exotic Orn., 1868, pt. VII, pl. 51; SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 107.

Otus barbarus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 723.

Range: Highlands of Guatemala.

***Otus vermiculatus** (*Ridgway*). VERMICULATED SCREECH OWL.

Megascops vermiculatus RIDGWAY, Proc. U. S. Nat. Mus., X, 1887, p. 267 (Costa Rica).

Scops guatemalae SHARPE, Cat. Bds. Brit. Mus., II, 1875, pl. 9 (smaller fig. rufous phase).

[*Otus*] *guatemalae* BRABOURNE & CHUBB, Bds. S. A., I, 1912, p. 75, No. 698.

Otus vermiculatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 724.

Range: Costa Rica to Panama and south through western Colombia to western Ecuador.[a]

1: "Costa Rica."

***Otus nudipes** (*Vieillot*). BARE-LEGGED SCREECH OWL.

Bubo nudipes VIEILLOT, Ois. Am., Sept., I, 1807, p. 53, pl. 22 ("Greater Antilles").

Scops nudipes SHARPE, Cat. Bds. Brit. Mus., II, 1875, pl. 121; SALVIN and GODMAN, Biol. Centr. Amer. Aves, III, 1897, p. 25.

Psiloscops nudipes BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 76, No. 700.

Otus nudipes RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 727.

Range: Costa Rica and Panama, Colombia.

1: Costa Rica (La Capentera).

***Otus flammeolus** (*Kaup*). FLAMMULATED SCREECH OWL.

Scops flammeola KAUP, Trans. Zool. Soc. Lond., IV, pt. VI, 1859, p. 226 (Mexico).

Scops flammeolus SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 105.

Otus flammeolus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 728.

Range: Mountains of western North America, from southern British Columbia and Idaho, south to southern Mexico and Guatemala.

4: New Mexico 3; and Guatemala 1.

***Otus asio asio** (*Linn.*). FLORIDA SCREECH OWL.

Strix asio LINNAEUS, Syst. Nat., ed. 10, 1758, p. 92 (South Carolina).

Subsp. B. *Scops floridanus* SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 118.

Scops asio floridanus BAIRD, Brewer and Ridgway, Hist. N. Am. Bds., special ed., III, 1874, pl. opp. p. 51.

Otus asio asio RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 687.

Range: Southeastern United States, from South Carolina, Tennessee, and southern Illinois, south to the Gulf coast, from Louisiana and possibly eastern Texas, eastward.

†10: Florida.

[a] I have not seen specimens from Colombia or Ecuador.

***Otus asio naevius** (*Gmel.*). SCREECH OWL.

Strix naevia GMELIN, Syst. Nat., I, 1788, p. 289 (New York).
Scops asio SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 114, part.
Otus asio naevius RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 690.

Range: Eastern United States and southern Canada, from Ontario and New Brunswick, south to Georgia and Tennessee, Kansas, etc., and west to about the 100th meridian, Kansas, South Dakota, etc.

†48: Massachusetts 3; Connecticut 4; Ohio 1; Wisconsin 35; and Illinois 5.

Otus asio hasbroucki *Ridgway*. HASBROUCK'S SCREECH OWL.

Otus asio hasbroucki RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 694 (Palo, Pinto County, Texas).

Range: North-central Texas.

***Otus asio mccallii** (*Cassin*). TEXAS SCREECH OWL.

Scops mccallii CASSIN, Illus. Bds. California, Texas, etc., 1854, p. 180 (Rio Grande, Texas).
Otus asio mccalli RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 693.

Range: Lower Rio Grande Valley, southern Texas, and northeastern Mexico.

2: Texas (Cameron County).

Otus asio aikeni (*Brewster*). AIKEN'S SCREECH OWL.

Megascops asio aikeni BREWSTER, Auk, 1891, p. 139 (Colorado Springs, Colorado).
Otus asio aikeni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 695.

Range: Eastern Colorado and southward in New Mexico, western Texas, southeastern Arizona, to northern Durango, Mexico.

***Otus asio bendieri** (*Brewster*). CALIFORNIA SCREECH OWL.

Scops asio bendieri BREWSTER, Bull. Nutt. Orn. Club, VII, 1882, p. 31 (Nicasio, Marin County, California).
Otus asio bendieri RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 701.

Range: California (except southeastern desert region) north of Kern County, and in south-central Oregon.

7: California (Berkeley, San Francisco, Palo Alto, etc.).

Otus asio quercinus *Grinnell*.[a] GRINNELL'S SCREECH OWL.

Otus asio quercinus GRINNELL, Auk, 1915, p. 61 (Pasadena, Los Angeles Co., California).

Range: Southern coast region of California, from Kern County and Los Angeles County, southward.

[a] *Otus asio quercinus* GRINNELL: Paler than *O. a. bendieri* (BREWSTER) and black markings on under parts sharper with very little or none of the ferrugineous markings. "The restriction or absence of ferrugineous markings on the chest, around the facial rim, and on the ear tufts, is a good character." (Grinnell, l. c.)

Otus asio brewsteri *Ridgway*. BREWSTER'S SCREECH OWL.

Otus asio brewsteri RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 700 (Salem, Oregon).

Range: Western Oregon, U. S. A.

***Otus asio maxwelliae** (*Ridgway*). ROCKY MOUNTAIN SCREECH OWL.

Scops asio maxwelliae RIDGWAY, Field and Forest, II, No. 11, 1877, p. 210 (Boulder, Colorado).

Otus asio maxwelliae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 696.

Range: Eastern Montana and Wyoming to central Colorado.

4: Colorado (Lorimer County) 2; "Colorado" 2.

***Otus asio macfarlanei** (*Brewster*). MACFARLANE'S SCREECH OWL.

Megascops asio macfarlanei BREWSTER, Auk, 1891, p. 144 (Walla Walla, State of Washington, U. S. A.).

Otus asio macfarlanei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 677.

Range: Western Montana to northeastern California, eastern Oregon, eastern Washington, and southeastern British Columbia.

5: Montana 3; and Washington 2.

***Otus asio kennicottii** (*Elliot*). KENNICOTT'S SCREECH OWL.

Scops kennicottii ELLIOT, Proc. Ac. Nat. Sci., Phila., 1867, p. 69 (Sitka, Alaska); *Id.*, Illust. New and Unfig. Bds. N. Am., 1869; p. XXVII, pl. 11.

Otus asio kennicottii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 698.

Range: Coast region of southern Alaska to northwestern Washington.

3: British Colombia (Victoria).

Otus asio cineraceus (*Ridgway*). ARIZONA SCREECH OWL.

Megascops asio cineraceus RIDGWAY, Auk, 1895, p. 390, in text (Ft. Huachuca, Arizona).

Otus asio cineraceus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 702.

Range: Southwestern New Mexico and southern Arizona to southeastern California and northern Sonora, Mexico.

Otus asio gilmani[a] *Swarth*. GILMAN'S SCREECH OWL.

Otus asio gilmani SWARTH, Univ. Calif. Pub., Zool., VII, 1910, p. 1 (Blackwater, Pinal County, Arizona); *Id.*, The Condor, XVIII, 1916, p. 163.

Range: Valleys of southwestern Arizona.

[a] *Otus asio gilmani* SWARTH: Close to *O. a. cineraceus* RIDGWAY, but claimed to differ in being paler and the pencillings much finer; not recognized by Ridgway (See Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 702, foot note), but later upheld by Swarth (The Condor, l. c.).

Otus asio xantusi (*Brewster*). XANTUS'S SCREECH OWL.

Megascops xantusi BREWSTER, Bull. Mus. Comp. Zool., XLI, 1902, p. 93 (Santa Anita, S. Lower California).

Otus asio xantusi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 703.

Range: Southern Lower California.

***Otus trichopsis** (*Wagler*). SPOTTED SCREECH OWL.

Scops trichopsis WAGLER, Isis, 1832, p. 276 (Mexico).

Otus trichopsis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 704.

Range: Southern Arizona to Guatemala.

5: Arizona (Huachuca Mts.) 2; Guatemala (Tecpam and Chichavac) 3.

Otus pinosus (*Nelson and Palmer*). LAS VEGAS SCREECH OWL.

Megascops pinosus NELSON and PALMER, Auk, 1894, p. 39 (Las Vegas, Vera Cruz, alt. 8,000 ft., Mexico).

Otus pinosus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 708.

Range: Southeastern Mexico (State of Vera Cruz).

Otus vinaceus (*Brewster*). CHIHUAHUA SCREECH OWL.

Megascops vinaceus BREWSTER, Auk, 1888, p. 88 (Durasno, Chihuahua, Mexico).

Otus vinaceus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 710.

Range: Northwestern Mexico (State of Chihuahua).

Otus cooperi (*Ridgway*). COOPER'S SCREECH OWL.

Scops cooperi RIDGWAY, Proc. U. S. Nat. Mus., I, 1878, p. 116 (Santa Ana, Costa Rica).

Otus cooperi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 710.

Range: Costa Rica, Nicaragua, Salvador to southern Mexico.

Genus **LOPHOSTRIX** Lesson.

Lophostrix Lesson, Compl. Buffon, VII, 1, 1836, p. 261; (Type *Strix cristata* Daudin).

Lophostrix cristatus cristatus (*Daud.*). CRESTED OWL.

Strix cristata DAUDIN, Traite d'Orn., II, 1800, p. 207 (Guiana); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 122.

Lophostrix cristatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 733, in key; CHUBB, Bds. Brit. Guiana, I, 1916, p. 289.

Range: Guianas, and Amazon Valley, Ecuador.

***Lophostrix cristatus stricklandi** (*Sclater and Salvin*). STRICKLAND'S OWL.

Lophostrix stricklandi SCLATER and SALVIN, Ibis, 1859, p. 221 (Vera Paz, Guatemala).

Scops stricklandi SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 124.

Lophostrix stricklandi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 733.
Lophostrix cristatus stricklandi CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 253 (Barbacoas, Colombia).

Range: Southern Mexico to Panama and northern Colombia.

1: Panama.

Genus **SCOTIAPTEX** Swainson.

Scotiaptex Swainson, Classif, Bds. I, 1836, p, 327; II, 1837, p. 217 (Type *Strix cinerea* Gmelin).

*Scotiaptex nebulosa nebulosa (*Forster*). GREAT GRAY OWL.

Strix nebulosa FORSTER, Philos. Trans., LXII, 1772, p. 386 (Severn River, Keewatin, Canada).
Strix cinerea AUDUBON, Orn. Biog., IV, 1838, p. 364, pl. 351.
Syrnium cinereum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 252.
Scotiaptex nebulosa nebulosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 635.

Range: Northern North America.

†9: Canada (Alberta) 7; New Brunswick (Debia) 1; Massachusetts (near Boston) 1.

Genus **STRIX** Linnaeus.

Strix Linnaeus, Syst. Nat. ed 10, I, 1758, p. 92. (Type by subsequent designation. *Strix aluco* Linn. or *Strix stridula* Linn.).[a]

*Strix varia varia (*Barton*). BARRED OWL.

Strix varius BARTON, Fragm. Nat. Hist. Penn., 1799, p. 11 (Pennsylvania, U. S. A.).
Syrnium nebulosum AUDUBON, Bds. Am., Oct., ed I, 1840, p. 132, pl. 36; SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 257.
Strix varia varia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 641.

Range: Middle eastern North America, north to Newfoundland and Manitoba, etc., south to northern Georgia, southern Illinois, etc., and west to eastern Montana, Colorado, etc.

7: Massachusetts 1; Connecticut 2; Maine 1; Indiana 1; Illinois 1; and Wisconsin 1.

*Strix varia alleni (*Ridgway*). FLORIDA BARRED OWL.

Strix nebulosa alleni RIDGWAY, Proc. U. S. Nat. Mus., III, 1880, p. 8 (Clearwater, S. W. Florida).
Strix varia alleni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 644.

Range: Southern United States from eastern Texas to Florida and north to Arkansas and South Carolina.

†11: Florida 9; Texas 2.

[a] See Newton, Ibis, 1876, p. 94; Allen, Auk, 1908, p. 290.

Strix varia albogilva *Bangs*. TEXAS BARRED OWL.

Strix varia albogilva BANGS, Auk, 1908, p. 316 (new name to replace *Syrnium nebulosum helveolum* BANGS, preoccupied). (Corpus Christi, Texas); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 646.

Range: South-central Texas.

Strix varia sartorii (*Ridgway*). MEXICAN BARRED OWL.

Syrnium nebulosum var. *sartorii* RIDGWAY, Bull. Essex Inst., V, 1873, p. 200 (Mirador, Vera Cruz, E. Mexico).

Syrnium sartorii SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 258 (footnote).

Strix varia sartorii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 646.

Range: Higher mountains of Central and Southern Mexico.

***Strix fulvescens** (*Sclater and Salvin*). GUATEMALAN BARRED OWL.

Syrnium fulvescens SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1868, p. 58 (Guatemala); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 258.

Strix fulvescens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 647.

Range: Highlands of Guatemala and Chiapas.

1: "Guatemala."

Strix rufipes *King*. PATAGONIAN BARRED OWL.

Strix rufipes KING, Zool. Journ., III, 1828, p. 426 (Port Famine); SCOTT and SHARPE, Rep. Princeton Univ. Exp. to Patagonia, IV, 1915, p. 692.

Ulula fasciata DES MURS, Icon. Orn. pl. 37.

Syrnium rufipes SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 261.

Range: Chile and Patagonia.

Strix occidentalis occidentalis (*Xantus*). SPOTTED OWL.

Syrnium occidentalis XANTUS, Proc. Acad. Nat. Sci. Phila., XI, 1859, p. 190 (Ft. Tejon, California); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 260 (part).

Strix occidentalis occidentalis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 649.

Range: Mountains of southern California (from Los Angeles county) and northern Lower California.

Strix occidentalis caurina (*Merriam*). NORTHERN SPOTTED OWL.

Syrnium occidentalis caurinum MERRIAM, Auk, 1898, p. 39 (Mt. Vernon, Skaget Valley, Washington).

Strix occidentalis caurina RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 650.

Range: Northwest coast region of North America, from northern California to British Colombia.

Strix occidentalis lucida (*Nelson*). MEXICAN SPOTTED OWL.

Syrnium occidentalis lucidum NELSON, Proc. Biol. Soc. Wash., XVI, 1903, p. 152 (Mt. Yancitaro, Michoacan, central Mexico).

Strix occidentalis lucida RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 652.

Range: Mountains of central Mexico (States of Guanajuato and Michoacan).

***Strix occidentalis huachucae** *Swarth.* ARIZONA SPOTTED OWL.

Strix occidentalis huachucae SWARTH, Univ. Calif. Pub. Zool., VII, 1910, p. 3 (Huachuca Mts., Arizona); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 651; SWARTH, The Condor, XVII, 1915, p. 16, in text.

Range: Mountains of Arizona, east to western Texas and north to Colorado.

1: "Arizona."

Genus CICCABA Wagler.

Ciccaba Wagler, Isis, 1832, p. 1222 (Type *Strix hulula* Daudin).

***Ciccaba hylophilum** (*Temm.*). BRAZILIAN WOOD OWL.

Strix hylophilum TEMMINCK, Pl. Col., II, 1825, pl. 373 ("Brasil").
Syrnium hylophilum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 269, part.

Range: S. W. Brazil, Paraguay, N. E. Argentine.

1: "Colombia." ?

***Ciccaba albitarsus albitarsus**[a] (*Sclater*). WHITE-FOOTED WOOD OWL.

Syrinum albitarse SCLATER, Trans. Zool. Soc. Lond., 1862, p. 263, pl. IX (Bogota, Colombia).

Range: Colombia and Venezuela.

1: Venezuela (Merida).

Ciccaba albitarsus goodfellowi *Chubb.*[b] GOODFELLOW'S WOOD OWL.

Ciccaba albitarsus goodfellowi CHUBB, Bull. Brit. Orn. Club, 1916, p. 46 (North of Quito, Ecuador, alt. 11,000 ft.).

Range: Ecuador.

***Ciccaba albogularis** (*Cassin*). WHITE-THROATED OWL.

Syrnium albogularis CASSIN, Proc. Acad. Sci., Phila., IV, 1848, p. 124 ("South America" = Colombia);[c] SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 270.
Ciccaba albigularis CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 254.

Range: Colombia and Ecuador.

3: "Colombia."

[a] *Ciccaba a. albitarsus* (SCLATER): Somewhat resembles *C. hylophilum* (TEMM.), but readily distinguished by its whitish feet and other characters.

[b] *Ciccaba a. goodfellowi* CHUBB: Similar to *C. albitarsus albitarsus* (SCLATER), but blackish (instead of brown) above; the pale markings buff (instead of rufous) and much less extensive; under parts largely white; breast white (not rufous); wing, 270; tail, 146 mm.

[c] Brabourne and Chubb, designate "Colombia" Bds. S. A., I, 1912, p. 76, No. 704; Chapman l. c., adds "Choachi" near Bogota.

Ciccaba superciliare superciliare (*Pelz.*). WHITE-BROWED WOOD OWL.

Syrnium superciliare PELZELN, Verh. Zool. bot Gess. Wien, 1863, p. 1125 (Brazil); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 271; HELLMAYR, Nov. Zool., XIV 1907, p. 407.

Range: Brazil.

Ciccaba superciliare macconnellii *Chubb.*[a] MCCONNELL'S WHITE-BROWED WOOD OWL.

Ciccaba superciliaris macconnellii CHUBB, Bds. Brit. Guiana, I, 1916, p. 290 (Ituribisi River, British Guiana).

Range: British Guiana.

Ciccaba suinda (*Vieill.*). BANDED WOOD OWL.

Strix suinda VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 34 ("Sud de la riviere de la Plata").

Syrnium suinda SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 272.

Range: S. Brazil, Paraguay and N. E. Argentine.

Ciccaba huhula (*Daudin*). DARK WOOD OWL.

Strix huhula DAUDIN, Traite d'Orn., II, 1800, p. 190 (Cayenne).

Syrnium huhulum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 275.

Cicaba huhula HELLMAYR, Abh. K. Bayer. Akad. Wis., München, XXII, 1906 p. 576; CHUBB, Bds. Brit. Guiana, I, 1916, p. 291.

Range: Guiana and Brazil.

***Ciccaba nigrolineata nigrolineata** (*Sclater*). BLACK AND WHITE WOOD OWL.

Ciccaba nigrolineata SCLATER, Proc. Zool. Soc. Lond., 1859, p. 131 (S. Mexico),

Ciccaba nigrolineata nigrolineata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 760.

Range: Southern Mexico, south to western Ecuador.

1: Panama (Chiriqui).

***Ciccaba nigrolineata spilonota** (*Sharpe*).[b] BARRED WOOD OWL.

Subsp. a. *Syrnium spilonotum* SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 277 (Bogota, Colombia).

Ciccaba nigrolineata spilonota RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 760, in key.

Range: Central Colombia.

1: Colombia (Rio Barrera).

[a] *Ciccaba s. macconnellii* CHUBB: Similar to *C. s. superciliare* (PELZ.), but differs in being rufous brown above (instead of dusky brown) and outer edges of scapulars sandy buff (not white); under parts sandy buff marked with bright tawny (not white with dark brown markings and shaft streaks of the same color).

[b] A very doubtful subspecies, cf. Ridgway, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 762, foot note; also Chapman, Bull. Am. Mus., N. H., XXXVI, 1917, p. 254.

***Ciccaba virgata virgata** (*Cassin*). CASSIN'S WOOD OWL.

Syrnium virgatum CASSIN, Proc. Acad. Nat. Sci., Phila., IV, 1848, p. 124 ("South America" = Colombia);[a] SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 271; BANGS, Proc. Biol. Soc. Wash., XII, 1898, p. 159 (Santa Marta).

Ciccaba virgata virgata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 763.

Syrnium lineatum (not *Strix lineata* Shaw) LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1862 p. 462 (Lion Hill, Panama).[b]

Range: Southeastern Mexico to Colombia and Venezuela.

3: Mexico 1; and Nicaragua 3.

Ciccaba virgata squamulata (*Bonaparte*). SQUAMMULATED WOOD OWL.

Syrnium squamulata BONAPARTE, Consp. Av., I, 1850, p. 53 (Mexico).

Ciccaba virgata squamulata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 766.

Range: Western and southwestern Mexico.

Ciccaba virgata tamaulipensis (*Phillips*). TAMAULIPAS WOOD OWL.

Strix virgata temaulipensis PHILLIPS, Auk, 1911, p. 76 (Rio Martinez, W. Tamaulipas, Mexico).

Ciccaba virgata tamaulipensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 767.

Range: Northwestern Mexico.

Genus **CRYPTOGLAUX** Richmond.

Cryptoglaux Richmond, Auk, 1901, p. 193 (Type *Strix tengmalmi* Gmelin).

Cryptoglaux tengmalmi tengmalmi (*Gmel.*). TENGMALM'S OWL.

Strix tengmalmi GMELIN, Syst. Nat., I, pt. 1, 1788, p. 291 (Sweden).

Cryptoglaux funeria funeria EVERMANN, Auk, 1913, p. 18.[c]

Cryptoglaux tengmalmi tengmalmi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 623, in key.

Range: Northern Europe and Asia.

***Cryptoglaux tengmalmi richardsoni** (*Bonaparte*). RICHARDSON'S OWL.

Nyctale richardsoni BONAPARTE, Geo. and Comp. List, 1838, p. 7. (Based on Audubon, Orn. Biog., IV, pl. 380.) (Bangor, Maine); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 284, part.

[a] Designated by Brabourne and Chubb, Bds. S. A., I, 1912, p. 76, No. 707.

[b] See Ridgway, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 765, foot note.

[c] Recorded from St. Paul Island, Pribilof Islands, Alaska, February 2, 1912, Evermann, (l. c.). This may prove to be *Cryptoglaux tengmalmi jacutorum* BUTURLIN, J. F. O., 1908, p. 287 (cf. Hartert, Die Vogel der Palaark, Faun, heft. VIII, 1913, pp. 996–999).

Nyctale tengmalmi var. *richardsoni* CORY, Nat. in Magadalena Is., 1878, p. 54 (breeding).

Glaux funeria richardsoni CORY, Bds. Illinois & Wisconsin (Field Mus. Pub., No. 131, 1909, p. 491).

Cryptoglaux tengmalmi richardsoni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 624; BREWSTER, Bds. Cambridge, Region of Mass. (Mem. Nutt. Orn. Club, IV, 1906, p. 199).

Range: Northern North America.

5: Alaska 1; New Foundland 1; Alberta, Canada 2; and Massachusetts 1.

***Cryptoglaux acadica acadica** (*Gmel.*). SAW-WHET OWL.

Strix acadica GMELIN, Syst. Nat., I, pt. 1, 1788, p. 296 (North America); AUDUBON, Orn. Biog., II, 1834, p. 567, pl. 199.

Strix albifrons SHAW, Nat. Misc., V, 1794, pl. 171 (young).

Nyctale acadica SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 287.

?*Nyctale acadica scotaea* OSGOOD, N. M. Fauna, No. 21, 1901, p. 43 (Queen Charlotte Is.)

Cryptoglaux acadica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 627.

Range: Northern North America (except extreme north), south in winter to Mexico and Guatemala.

†12: Canada (Toronto) 1; Magdalena Islands (Gulf of St. Lawrence) 2; Minnesota 1; Illinois 4; Massachusetts 1; California 2; and Locality? 1.

Cryptoglaux acadica brooksi[a] *Fleming.* QUEEN CHARLOTTE SAW-WHET OWL.

Cryptoglaux acadica brooksi FLEMING, Auk, 1916, p. 422 (Graham Is., Queen Charlotte Islands, British Colombia).

Range: Queen Charlotte Islands, British Colombia.

Cryptoglaux ridgwayi *Alfaro.* COSTA RICAN SAW-WHET OWL.

Cryptoglaux ridgwayi ALFARO, Proc. Biol. Soc. Wash., XVIII, 1905, p. 217 (Cerro de la Candelaria, near Escaso, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 633.

Range: High mountains of Costa Rica.

[a] *Cryptoglaux acadica brooksi* FLEMING: A dark race supposed to be confined to the Queen Charlotte Islands. It is quite different from the bird described as *scotaea* OSGOOD from that region, and which Ridgway considered inseparable from *C. a. acadica* (*cf.* Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 629, foot note). It would seem likely, however, that the type of *scotaea* may prove to be a phase of plumage of the Queen Charlotte Island-bird, in which case, *brooksi* would be antedated by *scotaea*, and the name of the Island race would stand as *Cryptoglaux acadica scotaea* (OSGOOD), N. Am. Fauna, No. 21, 1901, p. 43 (Massett, Queen Charlotte Islands, British Colombia). See also Flemming, l. c. (crit.) and Swarth, Univ. California Pub. (Zool.), VII, 1911, p. 65 (Mitkof, I., Alaska).

Genus **GISELLA** Bonaparte.

Gisella Bonaparte, Ann. Sci. Nat. (Zool.), 4, Ser. I, 1854, p. 112 (nomen nudum); Rev. et Mag. de Zool., VI, 1854, p. 541 (Type *Strix lathami* Bonap.).

*Gisella harrisi (*Cassin*). HARRIS' OWL.

Nyctale harrisi CASSIN, Proc. Acad. Nat. Sci. Phila., IV, 1848, p. 157 (South America = Colombia).
Syrnium harrisi SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 283.
Gisella harrisi BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 77, No. 710.

Range: Colombia and Venezuela.

1: "Colombia."

Gisella iheringi[a] *Sharpe*. IHERING'S OWL.

Gisella iheringi SHARPE, Bull. Brit. Orn. Club, VIII, 1899, p. XL (S. Lorenzo, Rio Grande do Sul, S. Brazil); CHUBB, Ibis, 1910, p. 71; DABBENE, Bol. Soc. Physis I, 1914, p. 306.

Range: South Brazil, Paraguay, and N. Argentine.

Genus **SURNIA** Dumeril.

Surnia Dumeril, Zool. Analytique, 1806, p. 34 (Type by designation by Gray, 1841 *Strix ulula* Linn.).

Surnia ulula pallasi (*Buturlin*). SIBERIAN HAWK OWL.

Surna iulula pallasi BUTURLIN, Ornith. Monatsb., XV, 1907, p. 100 (Siberia).[b]
Strix ulula SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 129, part.
Surnia ulula ulula RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 773, key and footnote (part, St. Michael).

Range: Siberia; accidental in Alaska (St. Michael).[c]

*Surnia ulula caparoch (*Müller*). AMERICAN HAWK OWL.

Strix caparoch MÜLLER, Syst. Nat. Suppl., 1776, p. 69 (Hudson Bay).
Surnia funerea AUDUBON, Bds. Am., Oct. ed., 1840, p. 112, pl. 27.
Syrnia ulula caparoch RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 774.

Range: Northern North America, north to the limit of trees, breeding in Hudsonian and Canadian life zones, south in winter to northern United States and casually farther south.

†10: Alaska (Kenai Peninsula) 3; Alberta, Canada (Red Deer) 6; and Newfoundland 1.

[a] *Gisella iheringi* SHARPE: "Similar to *Gisella harrisi* (CASS.), but differs in having the upper tail coverts marked with ovate spots and tail with three white bands; ear stripes, lores, and gular stripes, blackish (not chocolate brown); wing, 5.25 in.

[b] *Cf.* Hartert, Vög. Pal. Fauna, VIII, 1913, pp. 1012–1013.

[c] See Ridgway, Bull. U. S. Nat. Mus., No. 50, VI, 1916, p. 774, footnote.

Genus **SPEOTYTO** Gloger.

Speotyto Gloger, Hand- und Hilfsbuch der Naturg., 1842, p. 226 (Type *Strix cunicularia* Molina).

Speotyto cunicularia cunicularia (*Molina*).[a] CHILIEN BURROWING OWL.

Strix cunicularia MOLINA, Saggio Stor. Nat. Chile, 1872, p. 263 (Chile).

Speotyto cunicularia SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 142, part; SCOTT and SHARPE, Rep. Princeton Univ. Exped. to Patagonia, II, 1915, pt. 4, p. 696; GRANT, Ibis., 1911, p. 329 (N. Argentine).

Speotyto cunicularia cunicularia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 813, in key.

Range: Chile, Argentine, Patagonia, and Uruguay.

Speotyto cunicularia grallaria (*Temm.*).[b] BRAZILIAN BURROWING OWL.

Strix grallaria TEMMINCK, Pl. Col., II, 1822, pl. 146 (Brazil = Minas Geraes); SPIX, Av. Bras., I, 1824, p. 21.

Speotyto cunicularia grallaria HELLMAYR, Abh. k. Bayer Akad. Wiss., München, XXII, 1906, p. 574; CORY, Field Mus. Pub., No. 193, XII, No. 1, 1917, p. 6.

Speotyto grallaria CHUBB, Ibis, 1910, p. 77 (Paraguay).

Range: Southern Brazil, S. E. Paraguay, and N. Uruguay.

***Speotyto cunicularia beckeri** *Cory*.[c] BECKER'S BURROWING OWL.

Speotyto cunicularia beckeri CORY, Field Mus. Pub., No. 182, Orn. Ser. I, 1915, p. 299 (Sao Marcello, Rio Preto, Bahia, Brazil); *Id.*, No. 193, Zool. Ser., XII, No. I, p. 6, in text.

Range: Brazil, Bahia to Eastern Matto Grosso, probably Goyaz and Piauhy, and perhaps farther north and west.

5: Bahia (Sao Marcello), including the type.

Speotyto cunicularia juninensis[d] *Berlepsch and Stolzman*. JUNIN BURROWING OWL.

Speotyto cunicularia juninensis BERLEPSCH and STOLZMAN, Proc. Zool. Soc. Lond., 1902, II, p. 41 (Junin, Peru).

Range: Andes of central Peru.

[a] *Speotyto cunicularia cunicularia* (MOLINA): Tarsus thickly feathered (except at the back); dark markings paler; wing (females), averaging 184; tail, averaging about 93 mm.

[b] *Speotyto cunicularia grallaria* (TEMMINCK): Tarsus usually fully feathered (except at the back) but decidedly less thickly than in *S. c. cunicularia* (MOLINA), brown markings darker; wing (females), averaging 175, tail, about 82 mm.

[c] *Speotyto cunicularia beckeri* CORY: Tarsus rather sparsely feathered, the lower portion being practically bare; brown markings still darker than in *S. c. grallaria* (TEMM.) and with a more rusty tinge and averaging heavier and more extensive below; forehead white (width about 7 mm.); wing (females), averaging about, 168; tail, about 75 mm. The average smaller size and more rusty tinge are the best distinguishing characters.

[d] *Speotyto cunicularia juninensis* BERL. & STOLZ: Size very large for this genus; wing 195 or more; general plumage browner than in *S. c. cunicularia* (MOLINA) and more heavily barred.

Speotyto cunicularia nanodes[a] *Berlepsch and Stolzman.* PERUVIAN BURROWING OWL.

S[peotyto] cunicularia nanodes BERLEPSCH and STOLZMAN, Proc. Zool. Soc. Lond., 1892, p. 388, in text (Lima).

Range: Coast region of central Peru.

***Speotyto cunicularia intermedia** *Cory.*[b] INTERMEDIATE BURROWING OWL.

Speotyto cunicularia intermedia CORY, Field Mus. Pub., No. 182, Orn. Ser., I, No. 8, 1915, p. 300 (Pacasmayo, Peru).

Range: Coast region of northern Peru.

1: Peru (Pacasmayo). (Type of subspecies.)

Speotyto cunicularia punensis[c] *Chapman.* PUNA ISLAND BURROWING OWL.

Speotyto cunicularia punensis CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXIII, 1914, p. 318 (Puna Island, off Ecuador).

Range: Puna Island, off Ecuador.

Speotyto cunicularia tolimae[d] *Stone.*

Speotyto cunicularia tolimae STONE, Proc. Acad. Nat. Sci. Phila., 1899, p. 303 (Plain of Tolima, Colombia).

Range: Colombia.

***Speotyto cunicularia minor**[e] *subsp. nov.* LESSER BURROWING OWL.

?*Speotyto brachyptera* CHUBB, Bds. Brit. Guiana, I, 1916, p. 292.

Range: Rio Branco Region, northern Brazil; British Guiana?

4: Northern Brazil (Boa Vista, Rio Branco, including type of subspecies; and base of Serra da Lua, near Boa Vista, Amazonas).

[a] *Speotyto cunicularia nanodes* BERL. & STOLZ: About the size of *beckeri*, or slightly smaller, but coloration much more earthy brown and less rufous brown; under parts less heavily and more irregularly barred (than in *beckeri*), the markings being pale and narrow on the flanks; whitish bands on outer tail feathers usually complete and tinged with buff. (Specimens examined from Lima.) Wing, (male) 168; tail 89 mm.

[b] *Speotyto cunicularia intermedia* CORY: Intermediate between *S. c. nanodes* BERL. & STOLZ. and *S. c. punensis* CHAPMAN; upper parts like *punensis*, but less heavily marked with white on the crown and nape, but much more so and purer white than in *nanodes;* under parts more heavily marked with brown than in *nanodes*, the heavy brown markings extending to the abdomen and flanks; wing, (female) 165 mm.

[c] *Speotyto cunicularia punensis* CHAPMAN: General color paler; upper parts more heavily marked with white than on *nanodes;* brown markings on under parts pale and becoming nearly or quite obsolete on lower abdomen and thighs.

[d] *Speotyto cunicularia tolimae* STONE: Smaller and decidedly darker colored above; pronts brown; forehead and throat white; wing, about 150 mm.; bands on outer tail feather incomplete, usually confined to rounded spots.

[e] *Speotyto cunicularia minor* subsp. nov. Type from Boa Vista, Rio Branco, Amazonas, Brazil. Female No. 47509, Field Museum of Natural History. Collected by M. P. Anderson, Nov. 29, 1912. Nearest to *Speotyto c. brachyptera* RICHMOND, but differs in averaging darker; size smaller; thighs and flanks more tinged with ochraceous; wing, 142; tail, 55; tarsus, 40. (Average of three females, wing 142.5 mm.)

***Speotyto cunicularia brachyptera**[a] (*Richmond*). SHORT-WINGED BURROWING OWL.

Speotyto brachyptera RICHMOND, Proc. U. S. Nat. Mus., XVIII, 1896, p. 663 (Margarita Island, off Venezuela).

Speotyto cunicularia brachyptera RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 814, in key.

Range: Margarita Island, off Venezuela.

1: Margarita Island.

***Speotyto cunicularia arubensis**[b] *Cory*. ARUBA ISLAND BURROWING OWL.

Speotyto cunicularia arubensis CORY, Field Mus. Pub., No. 182, Orn. Ser. I, No. 8, 1915, p. 299 (Aruba Island, Dutch West Indies).

Range: Aruba Island, Dutch West Indies, off Venezuela.

4: Aruba Island, including type of subspecies.

***Speotyto cunicularia hypogaea** (*Bonap.*). BURROWING OWL.

Strix hypogaea BONAPARTE, Am. Orn., I, 1825, p. 72 (Platte River, U. S. A.).

Speotyto cunicularia becki ROTHSCHILD and HARTERT, Nov. Zool., IX, 1902, p. 405 (Guadeloupe Island, Lower California).

Speotyto cunicularia hypogaea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 814; BREWSTER, Bull. Mus. Comp. Zool., XLI, No. 1, 1902, p. 93 (Lower California).

Range: Unforested parts of North and Middle America, from British Colombia and Saskatchewan to Panama, and in United States from the Pacific coast (and islands of Santa Barbara, Guadeloupe, etc.) east to eastern border of the Great Plains.

†27: Colorado 4; Texas 3; New Mexico 9; Arizona 1; California 5; Mexico (Vera Crux) 2; Guatemala 1; and locality? 2.

Speotyto cunicularia rostrata (*Townsend*). CLARION ISLAND BURROWING OWL.

Speotyto rostrata TOWNSEND (C. H.), Proc. U. S. Nat. Mus., XIII, 1890, p. 133 (Clarion Island, Revillagigedo Group, off western Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 820.

Range: Clarion Island, off western Mexico.

[a] *Speotyto cunicularia brachyptera* RICHMOND: Coloration averaging lighter than *minor* and size larger; wing, averaging 147; tail, about 64; thighs and flanks paler.

[b] *Speotyto cunicularia arubensis* CORY: Approaches *S. c. brachyptera* RICHMOND, but is larger and brown markings darker (more umber brown); outer tail feather dull white, washed slightly with pale buff on the inner web, and having two or three very pale brown irregular spots confined to the middle of the feather; entire outer portion of the outer web white, for at least half of its width, as well as the greater portion of the inner web; several other differences; wing, female, 164; tail, 72; average measurements of 5 specimens (males) wing, 159; tail, 73 mm.; (females) wing, 163; tail, 75 mm.

***Speotyto cunicularia floridana** *Ridgway*. FLORIDA BURROWING OWL.

Speotyto cunicularia var. *floridana*, Am. Sportsman, IV, No. 14, July 4, 1874, p. 216 (16 miles east of Sarasota Bay, S. W. Florida).

Speotyto cunicularia floridana CORY, Auk, 1891, p. 349.

Speotyto cunicularia bahamensis CORY, Auk, 1891, p. 387 (Inagua).

Speotyto cunicularia cavicola BANGS, Auk, 1900 ,p. 287 (New Providence).

Speotyto floridana floridana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 820.

Range: Prairies of southern Florida and Bahama Islands (New Province, Inagua, Eleuthera, Andros, Great Exuma, Samana Kay, Cay Sal).

†22: Florida and Bahamas. Florida (Kissimmee Prairie 3, De Soto 1, Manatee county 1,); Bahama Islands (Eleuthera 1, Exuma 4, Samana or Atwoods Key 3, Cay Sal 5, and East Inagua 4).

***Speotyto cunicularia dominicensis** *Cory*. HAITIAN BURROWING OWL.

Speotyto cunicularia dominicensis CORY, Bull. Nutt. Orn. Club, VI, 1881, p. 154 (Haiti).

Speotyto dominicensis CORY, Auk, 1886, p. 471; *Id.*, Bds. West Indies, 1889, p. 194.

Speotyto cunicularia (not *Strix cunicularia* Mol.); SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 143, part (San Domingo, p. 146); CORY, Bds. Haiti and San Domingo, 1885, p. 118.

Speotyto floridana dominicensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 823.

Range: Haiti and San Domingo, Island of Haiti.

†14: Haiti (Le Coup 12, Lake Gantea 1); San Domingo (Honduras) 1.

Speotyto guadeloupensis guadeloupensis (*Ridgway*). GUADELOUPE BURROWING OWL.

Speotyto cunicularia var. *guadeloupensis* RIDGWAY, Bd. Bwr. & Ridgway, Hist. N. A. Bds., III, 1874, p. 90, footnote (Guadeloupe Island, Lesser Antilles).

Speotyto guadeloupensis CORY, Auk, 1886, p. 471; *Id.*, Bds. West Indies, 1889, p. 194.

Speotyto guadeloupensis guadeloupensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 824.

Range: Island of Guadeloupe, Lesser Antilles.

***Speotyto guadeloupensis amaura** (*Lawrence*). ANTIQUA BURROWING OWL.

Speotyto amaura LAWRENCE, Proc. U. S. Nat. Mus., I, 1878, p. 234 (Antigua Island, West Indies.)

Speotyto guadeloupensis amaura RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 825.

Range: Islands of Antigua and Nevis, Lesser Antilles.

2: Antigua Island 1; and Nevis Island 1.

Genus **GYMNASIO** Bonaparte.

Gymnasio Bonaparte, Rev. et Mag. de Zool., VI, 1854, p. 543 (Type *Strix nudipes* Daudin).

*Gymnasio nudipes nudipes (*Daudin*). BARE-LEGGED OWL.

Strix nudipes DAUDIN, Traite d'Orn., II, 1800, p. 199 (Porto Rico).

Gymnasio nudipes SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 149, part; CORY, Auk, 1886, p. 469; *Id.*, Bds. West Indies, 1889, p. 192, part.

Gymnasio nudipes nudipes RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 677; WETMORE, U. S. Dept. Agric. Bull. 326, 1916, p. 67.

Range: Island of Porto Rico, Greater Antilles.

2: Porto Rico.

Gymnasio nudipes newtoni (*Lawrence*). NEWTON'S BARE-LEGGED OWL.

Gymnoglaux newtoni LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1860, p. 259 (St. Croix, Greater Antilles).

Gymnasio nudipes newtoni RIDGWAY, Bull. U. S. Nat. Mus. No. 50, VI, 1914, p. 679.

Gymnoglaux nudipes (not *Strix nudipes* Daud.) NEWTON (A & E), Ibis, 1859, p. 64, pl. 1.

Range: Islands of St. Thomas, St. Johns, and St. Croix, Greater Antilles.

*Gymnasio lawrencei lawrencii (*Sclater and Salvin*). CUBAN BARE-LEGGED OWL.

Gymnoglaux lawrencii SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1868, p. 327, pl. 29 (Remedios, Cuba).

Noctua nudipes (not *Strix nudipes* Daud.) LEMBEYE, Aves de Cuba, 1850, p. 23, pl. 4, fig. 2.

Gymnasio lawrencei SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 150; CORY, Auk, 1886, p. 469; *Id.*, Bds. West Indies, 1889, p. 192; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 679.

Range: Island of Cuba, Greater Antilles.

1: Cuba.

Gymnasio lawrencei exsul[a] *Bangs*. ISLE OF PINES BARE-LEGGED OWL.

Gymnasio lawrencei exsul BANGS, Proc. N. E. Zool. Cl., IV, 1913, p. 91 (Santa Sevilla, Isle of Pines); TODD Ann. Carnegie Mus., X, 1916, p. 234.

Range: Isle of Pines, near Cuba, Greater Antilles.

[a] *Gymnasio lawrencei exsul* BANGS: "Differs from specimens of *G. l. lawrencei* (SCLATER & SALVIN) (taken in eastern Cuba) in being less reddish and more dusky brown and white spots on the dorsal region larger and more numerous.

Genus GLAUCIDIUM Boie.

Glaucidium Boie, Isis, XIX, 1826, p. 970 (Type by monotypy *Strix passerina* Linn.); (Sharpe, Ibis, 1875, pp. 35–58); (Ridgway, Ibis, 1876, pp. 11–17).

Glaucidium nanum (*King*). PATAGONIAN PIGMY OWL.

Strix nana KING, Zool. Journ., III, 1828, p. 427 (Port Famine).

Glaucidium nanum SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 190; CRAWSHAY, Bds. of Tierra del Fuego, 1907, p. 35, and colored plate; SCOTT and SHARPE, Rep. Princeton Univ. Exped. to Patagonia, Vol. II, pt. IV, 1915, p. 707.

Range: Chile and Patagonia.

*Glaucidium jardinii (*Bonaparte*). JARDINE'S PIGMY OWL.

Phalaenopis jardinii BONAPARTE, Comp. Rend., XLI, 1855, p. 654 (Andes of Quito, Ecuador).

Glaucidium jardinii SHARPE, Ibis, 1875, p. 43; *Id.*, Cat. Bds. Brit. Mus., II, 1875, p. 207; RIDGWAY, Ibis, 1876, p. 11, pl. 1; *Id.* Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 782; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 255 (Colombia).

Range: Costa Rica, south to Peru and Venezuela.

3: Colombia.

Glaucidium gnoma gnoma (*Wagler*). PIGMY OWL.

Glaucidium gnoma WAGLER, Isis, 1832, p. 275 (Mexico); SHARPE, Ibis, 1875, p. 38, pl. 1, part; *Id.*, Cat. Bds. Brit. Mus., II, 1875, p. 184, part.

Glaucidium gnoma gnoma RIDGWAY, Bull. U. S. Nat. Mus., No. 50, vi, 1914, p. 785.

Range: Northern and central Mexico.

Glaucidium gnoma haskinsii *Brewster*. HASKIN'S PIGMY OWL.

Glaucidium gnoma haskinsii BREWSTER, Auk, 1888, p. 136 (Sierra de la Laguna, southern Lower California); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 788.

Range: Southern Lower California.

*Glaucidium gnoma pinicola *Nelson*. ROCKY MOUNTAIN PIGMY OWL.

Glaucidium gnoma pinicola NELSON, Proc. Biol. Soc. Wash., XXIII, 1910, p. 103 (Alma, New Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 789.

Range: Rocky Mountains of United States, from Montana to Arizona and New Mexico.

2: Montana.

*Glaucidium gnoma californicum (*Sclater*). CALIFORNIA PIGMY OWL.

Glaucidium californicum SCLATER, Proc. Zool. Soc. Lond., 1857, p. 4 (California).

Glaucidium gnoma californicum RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 790.

Glaucidium gnoma vigilante GRINNELL, Auk, 1913, p. 224.

Range: California (except humid coast district) from Monterey, northward through middle and eastern Washington and Oregon and southwestern Idaho to southern British Columbia.

1: California.

Glaucidium gnoma grinnelli *Ridgway*. COAST PIGMY OWL.

Glaucidium gnoma grinnelli RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 791 (Humboldt Bay, California).

Range: Humid coast region of California, Oregon, and Washington, from Monterey county northward and coast region of southern British Columbia.

Glaucidium gnoma swarthi *Grinnell*. VANCOUVER PIGMY OWL.

Glaucidium gnoma swarthi GRINNELL (J), Auk, 1913, p. 224 (Errington, Vancouver Island, British Columbia); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 793.

Range: Vancouver Island, British Columbia.

Glaucidium palmarum *Nelson*. PALM PIGMY OWL.

Glaucidium palmarum NELSON, Auk, 1901, p. 46 (Arroyo de Juan, Sanchez, Tepic, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 795.

Range: Southwestern Mexico.

Glaucidium pumilum pumilum (*Temm.*). BRAZILIAN PIGMY OWL.

Strix pumila TEMMINCK, Plan. Col., II, live 7, 1821, pl. 39 and text (Paraguay and Brazil); DESCOURTILZ, Orn. Bras., 1852, Pl. 5, Fig. 3.

Glaucidium pumilum SHARPE, Ibis, 1875, p. 40, pl. 2, Fig. 1; *Id.*, Cat. Bds. Brit. Mus., II, 1875, p. 198; GOELDI, Album de Aves Amazon, pt. 3, 1906, pl. 42.

Glaucidium pumilum pumilum RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 781, in key.

Range: Brazil and Paraguay; British Guiana.

***Glaucidium pumilum griseiceps** (*Sharpe*). GRAY-HEADED PIGMY OWL.

Glaucidium griseiceps SHARPE, Ibis, 1875, p. 41, pl. 2, Fig. 2 (Guatemala); *Id.* Cat. Bds. Brit. Mus., II, 1875, p. 196.

Glaucidium pumilum griseiceps RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 795.

Range: Guatemala to Panama.

1: Guatemala.

Glaucidium fisheri *Nelson and Palmer*. FISHER'S PIGMY OWL.

Glaucidium fisheri NELSON and PALMER, Auk, 1894, p. 41 (Tochimilco, Puebla, east Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 797.

Range: Eastern Mexico (State of Pueblo).

***Glaucidium brasilianum brasilianum** (*Gmel.*). FERRUGINEOUS PIGMY OWL.

Strix brasilianum GMELIN, Syst. Nat., I, 1788, pt. I, p. 289 (Brazil).

Subsp. A. *Glaucidium ferox* SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 200.

Glaucidium brasilianum brasilianum RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 782, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 255 (Florencia, Colombia).

Glaucidium brasilianum CHUBB, Ibis, 1910, p. 78 (Paraguay).

Range: Brazil, Paraguay, Bolivia, Peru, and Colombia.

9: Brazil (Minas Geraes, Bahia, Ceara[a]) 7; Peru (Hda. Limon and Menocucho) 2.

***Glaucidium brasilianum ridgwayi** (*Sharpe*). NORTHERN FERRUGINEOUS PIGMY OWL.

Glaucidium ridgwayi SHARPE, Ibis, 1875, p. 55(Mexico).

Glaucidium brasilianum ridgwayi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 798.

Range: Panama northward to southwestern border of United States.

†30: Mexico 20; Yucatan 1; Guatemala 4; Costa Rica 4 and southern Texas 1.

Glaucidium brasilianum medianum *Todd*[b]. SANTA MARTA PIGMY OWL.

Glaucidium brasilianum medianum TODD, Proc. Biol. Soc., Wash., XXIX, 1916, p. 98 (Bonda, Santa Marta, Colombia).

Range: Northern Colombia.

***Glaucidium brasilianum phalaenoides** (*Daudin*). TRINIDAD FERRUGINEOUS PIGMY OWL.

Strix phalaenoides DAUD., Traité d'Orn., II, 1800, p. 206 (Trinidad).

Subsp. b. *Glaucidium phalaenoides* SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 203.

Glaucidium phalaenoides CHAPMAN, Bull. Am. Mus. Nat. Hist., VI, 1894, p. 68; CHUBB, Bds. Brit. Guiana, I, 1916, p. 293.

Range: Trinidad, Margarita Island, Venezuela, British Guiana.

3: Venezuela (Rio Aurare 2).

[a] Specimens from Ceara in the reddish plumage are paler (especially on the tail) than those I have seen from other localities.

[b] *Glaucidium brasilianum medianum* TODD: The brown phase differs from *G. b. ridgwayi* (SHARPE), having the upper parts much browner (less grayish) and streaks on under parts more rufescent; differs from *G. b. phalaenoides* (DAUDIN) in its paler, more buffy brown upper parts and less heavily streaked under parts; tail more decidedly and regularly barred.

***Glaucidium siju siju** (*D'Orb.*). CUBAN PIGMY OWL.

Noctua siju D'ORBIGNY in La Sarag's Hist. Nat. Cuba. Aves, 1839, p. 41, pl. 3 (Cuba).

Glaucidium siju SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 193; CORY, Auk, 1886, p. 470; *Id.* Bds. West Indies, 1889, p. 193.

Glaucidium siju siju RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 804.

Range: Island of Cuba, Greater Antilles.

6: Cuba.

Glaucidium siju vittatum *Ridgway*. ISLE OF PINES PIGMY OWL.

Glaucidium siju vittatum RIDGWAY, Bull. U. S. Nat. Mus., VI, 1914, p. 805 (Naieva Gerona, Isle of Pines, near Cuba); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 805; TODD, Ann. Carnegie Mus., X, 1916, p. 232.

Range: Isle of Pines (near Cuba.)

Glaucidium tephronotum *Sharpe*. SHARPE'S PIGMY OWL.

Glaucidium tephronotum SHARPE, Cat. Bds. Brit. Mus., II, 1879, p. 211, pl. XIII, Fig. 2 (South America?).

Range: Unknown; South America?

Genus **MICROPALLAS** Coues.

Micropallas Coues, Auk, 1889, p. 71 in text (New name to replace *Microthene* Coues, preoccupied). (Type by original designation *Athene whitenyi* Coues).

***Micropallas whitneyi whitneyi** (*Cooper*). ELF OWL.

Athene whitneyi COOPER, Proc. Calif. Acad. Sci., II, 1861, p. 118 (Fort Mojave, Arizona).

Microthene whitneyi SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 224.

Micropallas whitneyi whitneyi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 807.

Range: Southeastern California, Arizona, and southwestern New Mexico to Sonora, Mexico.

2: Arizona, and "Mexico."

Micropallas whitneyi sanfordi *Ridgway*. SANFORD'S ELF OWL.

Mizropallas whitneyi sanfordi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 809 (Miraflores, Lower California).

Range: Southern Lower California.

Micropallas whitneyi idonea *Ridgway*. TEXAN ELF OWL.

Micropallas whitneyi idoneus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 810 (near Hidalgo, Texas).

Range: Lower Rio Grande Valley in Texas and south to east central Mexico.

Micropallas graysoni (*Ridgway*). SOCORRO ELF OWL.

Micrathene graysoni RIDGWAY, Auk, 1886, p. 333 (Socorro I., Revillagigedo, Group of W. Mexico).

Micropallas graysoni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 810.

Range: Socorro Island, off western Mexico.

Family TYTONIDÆ. Barn Owls.

Genus **TYTO** Billberg.[a]

Tyto Billberg, Syn. Faunae Scand., I, pars 2, 1828 (Type *Strix flammea* Linn.).

***Tyto perlata perlata** (*Licht.*)[b]. BRAZILIAN BARN OWL.

Strix perlata LICHTENSTEIN, Verz. Doubl., 1823, p. 59 ("Brasil"); GOELDI, Alb. de Aves Amazon, pt. 3, 1906, pl. 42, Fig. 3; DESCOURTILZ, Orn. Bras., 1852, Pl. 5, Fig. 2.

Strix flammea SHARPE, Cat. Bds. Brit. Mus., II, 1875, p. 291, part.

Tyto perlata SCOTT and SHARPE, Rep. Princeton Univ. Exped. to Patagonia, II, Orn. pt. IV, 1915, p. 712; CHUBB, Bds. Brit. Guiana, I, 1916, p. 295.

Range: Brazil, Argentina, Chile, and Patagonia;[c] British Guiana?

1: Brazil (Itacoatiara, Amazonas).

Tyto perlata contempta *Hartert.*[d] ECUADOR BARN OWL.

Strix flammea contempta HARTERT, Nov. Zool., V, 1898, p. 500 (Cayambe, alt. 9223 ft., N. W. Ecuador).

Range: N. W. Ecuador.

***Tyto perlata stictica** (*Madarasz*).[e] VENEZUELAN BARN OWL.

Strix stictica MADARASZ, Ann. Mus. Hung., II, 1904, p. 115 (Merida, Venezuela).

Range: Venezuela.

1: Venezuela (Encontrados, Zulia).

[a] See Ridgway, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 600 and Beddard, Ibis, 1890, p. 298.

[b] According to Chubb, Bds. British Guiana 1, 1916, p. 502 (attenda), *Strixa perlat* LICHTENSTEIN, 1823, is preoccupied by *Strix perlata* VIEILLOT, 1816, and the name of the American bird should be changed to *tuidara*, Griffith and Piggeon.

[c] Birds from the Rio Chico region, Patagonia, may prove separable on account of their smaller size and pale plumage.

[d] *Tyto perlata contempta* HARTERT: A dark form approaching *T. punctatissima* GRAY from the Galapagos Island, but much larger; a large black spot in front of the eye; wing, 3.10 mm.

[e] *Tyto perlata stictica* (Madarasz): Differs in ground color of the back, which appears grayish lilac brown instead of gray; wing, 3.34 mm.

***Tyto perlata guatemalae** *Ridgway*. CENTRAL AMERICAN BARN OWL.

Strix flammea var. *guatemale* RIDGWAY, Bull. Essex Inst., V, 1873, p. 200. ("Panama to Guatemala").

Tyto perlata guatemale RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 610 (Type locality given as Chinandega, Nicaragua).

Strix perlata (not of Lichtenstein) SALVIN and GODMAN, Biol. Centr. Americana Aves, III, 1897, p. 2, part.

Range: Central America, from Guatemala to Panama; N. Colombia?

2: Costa Rica (Limon) 1; and Colombia? 1.

***Tyto perlata pratincola** (*Bonaparte*). AMERICAN BARN OWL.

Strix pratincola BONAPARTE, Geog. & Comp. List., 1838, p. 7 (based on Audubon Orn. Biog., II, p. 403, pl. 171) (Southeastern United States).

Tyto perlata pratincola RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 605.

Range: United States and Mexico, south to Nicaragua in winter.

†14: Florida 4; Massachusetts 1; Illinois 1; Indiana 2; Texas 1; Oklahoma 1; Arizona 1; California 1; and Mexico (San Luis Potosi and Pueblo) 2.

***Tyto perlata furcata** (*Temminck*). WHITE-WINGED BARN OWL.

Strix furcata TEMMINCK, Pl. Col. II, livr. 73, 1827, pl. 432, and text (Cuba); CORY, Cat. Bds. West Indies, 1892, p. 140.

Strix flammea furcata CORY, Auk, 1886, pp. 464–500 (Grand Cayman); *Id.*, Bds. West Indies, 1889, p. 187; SCOTT, Auk, 1892, p. 127.

Tyto perlata furcata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 602; TODD, Ann. Carnegie, Mus. X, 1916, p. 235.

Range: Cuba and Isle of Pines, Jamaica, and Cayman Islands.

†9: Cuba 4; Jamaica 2; Grand Cayman 2; and Cayman Brac 1.

***Tyto perlata lucayana** *Riley*. BAHAMA BARN OWL.

Tyto perlata lucayanus RILEY, Proc. Biol. Soc. Wash., 1913, p. 153 (New Providence Island, Bahamas).

Strix flammea var. *pratincola* not *Strix pratincola* Bonap.); CORY, Bds. Bahama Islands, 1880, p. 125.

Strix pratincola CORY, Bds. West Indies, 1889, p. 100, part.

Tyto perlata lucayana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 604.

Range: New Providence Island (and probably other northern islands) Bahamas.

1: Bahamas, New Providence Island (Nassau).

Tyto bargei (*Hartert*). CURACAO BARN OWL.

Strix flammea bargei HARTERT, Bull. Brit. Orn. Club. III, 1892, p. XIII (Curacao Island, Dutch West Indies).

Tyto bargei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 611.

Range: Island of Curacao, Dutch West Indies.

***Tyto glaucops** (*Kaup*). HAITIAN BARN OWL.

Strix glaucops KAUP, Jardine's Contr. Orn., 1852, p. 118 ("Jamaica"=Haiti or San Domingo); CORY, Bds. Haiti and San Domingo, 1885, p. 117; *Id.*, Auk, 1886, p. 465; *Id.* Bds. West Indies, 1889, p. 188.

Tyto glaucops RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 612.

Strix flammea (not of Linnaeus) SHARPE, Cat. Bds. Brit. Mus., II, 1875, pl. XXV, Fig. b.

Range: Haiti and San Domingo, Island of Haiti, Greater Antilles.

2: San Domingo (Puerto Plata).

***Tyto insularis insularis** (*Pelzeln*). ST. VINCENT BARN OWL.

Strix insularis PELZELN, Journ. fur Ornith., XX, 1872, p. 23 (St. Vincent, Lesser Antilles).

Tyto insularis insularis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 613.

Strix nigrescens CLARK, Proc. Bos. Soc. N. H., XXXII, 1905, p. 272.

Range: Island of St. Vincent, Grenada, Carriacon, Union, and Bequia, Lesser Antilles.

1: Grenada Island.

Tyto insularis nigrescens (*Lawrence*). DOMINICA BARN OWL.

Strix flammea var. *nigrescens* LAWR., Proc. U. S. Nat. Mus., I, 1878, p. 64 (Dominica, Lesser Antilles).

Strix flammea nigrescens CORY, Auk, 1886, p. 464; *Id.*, Bds. West Indies, 1889, p. 187, part.

Tyto insularis nigrescens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 615.

Range: Island of Dominica, Lesser Antilles; St. Lucia?

Tyto punctatissima (*Gray*). GALAPAGOS BARN OWL.

Strix punctatissima GRAY, Gould's Zool. Voy. "Beagle," III, 1841, p. 34, pl. 4 (James Island, Galapagos Islands).

Tyto punctatissima RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 616.

Range: Islands of Galapagos Archipelago.

Order PSITTACIFORMES.

Family PSITTACIDÆ. Parrots, Etc.

Subfamily Arinæ.

Genus **ANODORHYNCHUS** Spix.

Anodorhynchus Spix, Aves. Bras., I, 1824, p. 47 (Type *Psittacus hyacinthinus* Lath.).

Anodorhynchus hyacinthinus (*Lath.*). Blue Macaw.

Psittacus hyacinthinus Latham, Ind. Orn., I, 1790, p. 84 (Brazil).
Anodorhynchus hyacinthinus Salvadori, Cat. Bds. Brit. Mus., XX, 1891, p. 147; Goeldi, Alb. de Aves Amazon, 1902, pl. 14; Ridgway, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 118, in key. (Cut pl. XI.)
Anodorhynchus maximiliani Spix, Aves Bras. I, pl. XI.
Ara hyacinthinus Descourtilz, Orn. Bras., 1852, pl. 8.

Range: Central Brazil.

Anodorhynchus leari *Bonap.* Lear's Macaw.

Anodorhynchus leari Bonaparte, in Souance's Icon. Perr., p. 1, Fig. 1857 (Brazil); Salvadori, Cat. Bds. Brit. Mus., XX, 1891, p. 148.
Macrocercus hyacinthinus Lear, Parrots, 1828, pl. 9.

Range: Brazil.

Anodorhynchus glaucus *Vieill.* Glaucu's Macaw.

Macrocercus glaucus Vieillot, Nouv. Dict. d'Hist. Nat., II, 1816, p. 259 (Rio Parana).
Anodorhynchus glaucus Salvadori, Cat. Bds. Brit. Mus., XX, 1891, p. 149.
Sittace glauca Wagler, Mon. Psitt., 1832, p. 676, pl. XXVI.

Range: Southern Brazil, Paraguay, Uruguay, and northern Argentina.

Anodorhynchus purpurascens[a] *Rothschild.* Guadeloupe Violet Macaw.

Anodorhynchus purpurascens Rothschild, Bull. Brit. Orn. Club, XVI, 1905, p. 13 (Guadeloupe); *Id.*, Extinct Bds., 1907, p. 55, pl. 13; Ridgway, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 119.

Range: Guadeloupe Island, West Indies (now extinct).

[a] It is possible *purpurascens* may not belong in this genus.

Genus **CYANOPSITTA** Bonaparte.

Cyanopsitta Bonap., Rev. et Mag. de Zool., 1854, p. 149 (Type *Sittace spixii* Wagl.).

Cyanopsitta spixi (*Wagl.*). SPIX'S MACAW.

Sittace spixi WAGLER, Mon. Psitt., 1832, p. 675 (Rio Sao Francisco, Bahia, Brazil).

Cyanopsittacus spixi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 150.

Arara hyacinthinus SPIX, Av. Bras., I, 1824, pl. XXIII.

Cyanopsitta spixi HELLMAYR, Abh. K. Bayr. Akad. Wiss., München, II kl., XXII, Bd. III, 1906, p. 576.

Range: Eastern Brazil.

Genus **ARA** Lacépède.

Ara Lacépède, Tabl. Ois., 1899, p. 1 (Type *Psittacus macao* Linn.).

***Ara ararauna** (*Linn.*). BLUE AND YELLOW MACAW.

Psittacus ararauna LINNAEUS, Syst. Nat., 1, ed. 10, 1758, p. 96 ("South America," Brazil[a]); LEAR, Parrots, 1832, pl. VIII.

Ara ararauna SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 152; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 122; GOELDI, Alb. de Aves Amazon, 1902, pl. 14; DESCOURTILZ, Orn. Bras., 1852, pl. 6, Fig. 1; STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 196.

Range: Panama and greater portion of South America, from Colombia and the Guianas south to Bolivia and Paraguay.

3: British Guiana.

Ara caninde (*Wagler*). WAGLER'S MACAW.

S[ittace] caninde WAGLER, Mon. Psitt., 1832, p. 674 (Paraguay); Journ. for Ornith., 1891, pl. 1, Fig. 1.

Ara caninde SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 153; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 121, in key.

Range: Paraguay, N. E. Argentine.

Ara martinica[b] (*Rothschild*). MARTINIQUE MACAW.

Anadorhynchus martinicus ROTHSCHILD, Bull. Brit. Orn. Club, XVI, 1905, p. 14 (Martinique); SALVADORI, Ibis, 1906, p. 451.

Ara martinicus ROTHSCHILD, Extinct Birds, 1907, p. 53, pl. 14.

Ara martinicus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 125.

Range: Martinique, West Indies (extinct).

[a] See Hellmayr, Spix's Types, p. 577 and Brabourne & Chubb, Bds. S. A., I (list), 1912, p. 79.

[b] This may have been *A. ararauna* (See Salvadori, Ibis, 1906, p. 451).

Ara erythrura *Rothschild.* RED-TAILED BLUE AND YELLOW MACAW.

Ara erythrura ROTHSCHILD, Extinct Birds, 1907, p. 54, pl. 15 ("One of the West Indian Islands"); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 125.

Range: West Indies (exact island unknown). (Extinct.)

***Ara macao** (*Linn.*). SCARLET MACAW.

[*Psittacus*] *macao* LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 96 (South America[a]).
Macrocerculus aracanga LEAR, Parrots, 1832, pl. 7.
Ara macao SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 154; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 128 (cut, pl. XII); GOELDI, Alb. de Aves, Amazon, 1902, pl. 14.
Ara ara canga DESCOURTILZ, Orn. Bras., 1852, pl. 7, Fig. 1.

Range: Southern Mexico and Central America, and in greater portion of South America, south to Bolivia.

†11: Guatemala 4; Nicaragua 1; Coiba 1; Panama 4; and British Guiana 2.

***Ara chloroptera** *Gray.* RED, BLUE AND GREEN MACAW.

Ara chloropterus GRAY, List. Psitt. Brit. Mus., pt. III, 1859, p. 26 (British Guiana).
Psittacus macao (nec LINN.), Hahn Orn. Atlas, Papag., 1834, p. 21, pl. 12.
Ara chloroptera SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 156; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 125; GOELDI, Alb. de Aves Amazon, 1902, pl. 14.

Range: Panama and south to Bolivia, Paraguay and N. Argentine, east to the Guianas and most of Brazil.

3: Venezuela.

Ara guadeloupensis *Clark.* GUADELOUPE MACAW.

Ara guadeloupensis CLARK (A. H.), Auk, 1905, p. 272 (Guadeloupe); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 131.
Ara guadeloupensis ROTHSCHILD, Bull. Brit. Orn. Club, XVI, 1905, p. 15; *Id.*, Extinct Birds, 1907, p. 54.
?L'Ara rouge DAUBENTON, Pl. Col., pl. 12.

Range: Guadeloupe Island, West Indies (extinct).

Ara tricolor *Becht.* CUBAN MACAW.

A[ra] tricolor BECHSTEIN, Kurge Ueb., 1811, p. 64, pl. 1 (South America = Cuba).
Ara tricolor CORY, Auk, 1886, p. 454; *Id.*, Bds. West Indies, 1889, p. 177; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 157; BANGS and ZAPPEY, Bull. Am. Mus. Nat. Hist., XXXIX, 1905, p. 200; Rothschild, Extinct Birds, 1907, p. 51, pl. 10; TODD, Ann. Carnegie Mus., X, 1916, p. 227; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 136.

Range: Cuba and Isle of Pines (extinct).

[a] Pernambuco, eastern Brazil (See Hellmayr, Spix's Type, p. 577, and Brabourne and Chubb, Birds, S. A., List, 1912, p. 79)

Ara gossei *Rothschild.* GOSSE'S MACAW.

Ara gossei ROTHSCHILD, Bull. Brit. Orn. Club, XVI, 1905, p. 14 (Jamaica); *Id.*, Extinct Birds, 1907, p. 52, pl. 11; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 137.

Range: Jamaica, West Indies (extinct).

***Ara militaris militaris** (*Linn.*). MILITARY GREEN MACAW.

[*Psittacus*] *militaris* LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 139 (no type locality, but Colombia, S. A., designated by Brabourne and Chubb, Bds. S. A., I, 1912, p. 80).

Ara militaris SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 158, part; BANGS Proc. Biol. Soc. Wash., XII, 1898, p. 132 (Santa Marta).

Ara militaris militaris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 122, in key.

L'Ara militaire Levaill Per., 1801, pl. 4.

Range: Colombia to Peru and Bolivia, South America.

1: Colombia.

***Ara militaris mexicana** *Ridgway.* MEXICAN GREEN MACAW.

Ara militaris mexicana RIDGWAY, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 106 (Manzanillo, Mexico); *Id.* Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 133.

Range: Western Mexico to Guatemala.

2: Mexico (Sinaloa).

Ara ambigua (*Becht.*). BUFFON'S MACAW.

Ps[*ittacus*] *ambiguus* BECHSTEIN, Kurze Ueb. Iv, Th. I, 1811, p. 65 (South America = Ecuador, designated by Brabourne and Chubb, Bds. S. A., I, 1912, p. 80).

Ara buffoni BREHM, Mon. Papag., 1842, p. 6, pl. 8.

Ara ambigua SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 160; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 134.

Range: Southern Nicaragua to western Ecuador.

Ara erythrocephala *Rothschild.* RED-HEADED GREEN MACAW.

Ara erythrocephala ROTHSCHILD, Bull. Brit. Orn. Club, XVI, 1905, p. 14 (Jamaica); *Id.*, Extinct Birds, 1907, p. 53, pl. 12; SALVADORI, Ibis, 1906, p. 452; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 140.

Range: Jamaica (extinct).

Ara atwoodi *Clark.* ATWOOD'S MACAW.

Ara atwoodi CLARK (A. H.), Auk, 1908, p. 310 (Dominica, West Indies); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 121, footnote.

Range: "Dominica" (extinct).

Ara rubrigena (Lafr.). LAFRESNAYE'S MACAW.

Ara rubro-genis LAFRESNAYE, Rev. Zool., 1847, p. 65 (Bolivia); O. DES MURS, Icon. Orn., 1848, pl. 72.

Sittace rubrigenis SOUANCE, Iconogr. Perr., 1857, pl. 3.

Ara rubrigena SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 161.

Range: Bolivia.

***Ara severa** (*Linn.*). BRAZILIAN MACAW.

[*Psittacus*] *severus* LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 97 ("Indies," BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 80, designate Colombia).

Ara severus BREHM, Mon. Papag., 1842, pl. 11; DESCOURTILZ, Orn. Bras., pl. 6, Fig. 2.

Ara severa SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 161; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 139; GOELDI, Alb. de Aves Amazon, 1902, pl. 14.

Range: Panama to Bolivia, Guianas and Amazon Valley.

†12: Colombia 1; Venezuela 9; and Dutch Guiana 2.

***Ara maracana** (*Vieill.*). RED AND BLUE MACAW.

Macrocercus maracana VIEILLOT, Nouv. Dict., II, 1816, p. 260 (La Plata River, Paraguay).

Arara pupureo dorsalis SPIX, Av. Bras., I, 1824, p. 26, pl. XXIV.

Ara maracana SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 163; HELLMAYR, Abh. K. Bayer, Akad. Wiss., München, II Kl., XXII, Bd. III, 1906, p. 576.

Range: Central to southern Brazil, northern Argentina, and Paraguay.

6: Brazil (Bahia) 5; Argentina (Ter. Missiones) 1.

Ara couloni *Sclater.* COULON'S MACAW.

Ara couloni SCLATER, Proc. Zool. Soc. Lond., 1876, p. 255, with cut of head (Peru); BERLEPSCH, Journ. für Ornith., 1889, pl. III, Fig. I; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 164.

Range: Peru.

Ara auricollis *Cassin.* CASSIN'S MACAW.

Arara auricollis CASSIN, Proc. Acad. Nat. Sci., Phila., VI, 1853, p. 372 (Bolivia).

Sittace primoli SOUANCE, Icon. Perr., 1857, pl. II.

Ara auricollis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 165.

Range: Central Brazil to Paraguay, Bolivia, and Argentina.

Genus **ORTHOPSITTACA** Ridgway.

Orthopsittaca Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 99 (Type *Psittacus manilatus* Bodd.).

***Orthopsittaca manilata** (*Bodd.*). RED-BELLIED MACAW.

Psittacus manilatus BODDAERT, Tabl. Pl. Enl., 1783, p. 52 (Cayenne).

Ara macavouanne LEVAIL, Perr., 1801, pl. 1.

Ara macavuanna SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 165.

Ara manilata HELLMAYR, Abh. K. Bayer, Akad. Wiss., München, II Kl., 1906, p. 578.

Range: Ecuador and Peru to Guiana and northern Brazil.

6: British Guiana 1; and Brazil (Rio Preto and Boa Vista) 5.

Genus **DIOPSITTACA** Ridgway.

Diopsittaca Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 99 (Type *Psittacus nobilis* Linn.); *Id.*, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 109.

*Diopsittaca nobilis (*Linn.*). NOBLE MACAW.

Psittacus nobilis LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 97 (Brazil).
Arara macrognathos SPIX, Av. Bras., I, 1824, p. 26, pl. XXV, Figs. 1–2.
Ara nobilis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 167; HELLMAYR, Abh. K. Bayer, Akad, Wiss., München, II Kl., XXII, Bd. III, 1906, p. 577.

Range: Brazil.

1: "South America."

*Diopsittaca hahni (Souance). HAHN'S MACAW.

Psittaca hahni SOUANCE, Rev. et Mag. de Zool., 1856, p. 58 ("Colombia").
Psittacara hahni SOUANCE, Icon. Perr., 1857, pl. VI.
Ara hahni SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 168; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 80.

Range: Colombia to Guiana and North Brazil.

†8: British Guiana 3; Northern Brazil (Boa Vista and Rio Branco) 5.

Genus **RHYNCHOPSITTA** Bonaparte.

Rhynchopsitta Bonaparte, Rev. et Mag. de Zool., 1854, p. 149 (Type *Macrocercus pachyrhynchus* Swainson).

*Rhynchopsitta pachyrhyncha (*Swainson*). THICK-BILLED PARROT.

Macrocercus pachyrhynchus SWAINSON, Philos. Mag. N. S., I, 1827, p. 439 (Table-land of Mexico).
Sittace pachyrhynchus WAGLER, Mon. Psitt., 1832, p. 657, pl. XXV.
Rhynchopsittacus pachyrhynchus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 169.
Rhynchopsitta pachyrhyncha RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 141, cut, pl. XIII, Fig. 1).

Range: Highlands of northern and middle Mexico to border of United States (casual in southern Arizona).

5: Mexico (Chihuahua).

Genus **ARATINGA** Spix.

Aratinga Spix, Av. Bras., 1824, I, p. 29 (Type *Psittacus luteus* Bodd.).

*Aratinga mitrata (*Tschudi*). MITRED PARROT OR PAROQUET.

Conurus mitratus TSCHUDI, Wiegm. Archiv. für Naturg., 1844, p. 304 (Peru).
Evopsitta mitrata SOUANCE, Icon. Perr., 1857, pl. XXI; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 181.

Aratinga mitratus BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81.

Range: Peru and Bolivia, northern Argentina.

3: Argentina (Tucuman) 2; and Peru (Chunchamayo) 1.

***Aratinga rubrolarvata** (*Mess. et Souancé*). RED-MASKED PARROT OR PAROQUET.

Conurus rubrolarvatus MESSENA and SOUANCÉ, Rev. et Mag. de Zool., 1854, p. 71 (Guayaquil, Ecuador); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 182.

Evopsitta erythrogenys SOUANCÉ, Icon. Perr., 1857, pl. XXII.

[*Aratinga*] *rubrolarvatus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81.

Range: West Ecuador.

1: Ecuador, near Huigra (San Jose).

***Aratinga frontatus** (*Caban.*). CORDILLERAN PARROT OR PAROQUET.

Conurus frontatus CABANIS in Tsch. Faun Peru, 1846, p. 272 (Lima, Peru); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 183.

[*Aratinga*] *frontatus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81.

Range: Peru and Ecuador.

2: Peru (Hda. Limon).

***Aratinga wagleri** (*Gray*). WAGLER'S PARROT OR PAROQUET.

Conurus wagleri GRAY, Gen. Birds, II, 1845, pl. 102 (no locality, designate Colombia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 184.

Aratinga wagleri BRABOURNE and CHUBB, S. A. Bds., 1912, p. 82; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 151, in key.

Range: Colombia and Venezuela.

3: Venezuela (Lake Valencia) 2; and Colombia 1.

***Aratinga finschi** (*Salvin*). FINSCH'S PAROQUET.

Conurus finschi SALVIN, Ibis, 1871, p. 91, pl. 4 (Bugaba, Chiriqui, W. Panama); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 184.

Aratinga finschi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 52 (cut pl. XIV, Fig. 2).

Range: Southern Nicaragua and Costa Rica to western Panama.

2: Costa Rica.

***Aratinga chloroptera chloroptera** (*Souancé.*). HAITIAN PAROQUET.

Psittacara chloroptera SOUANCÉ, Rev. et Mag. de Zool., VIII, 1856, p. 59 (San Domingo).

Conurus chloroptera CORY, Bds. Haiti and San Domingo, 1885, p. 113 (pl. 15); *Id.*, Bds. West Indies, 1889, p. 180; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 186.

Aratinga chloroptera chloroptera RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 153.

Range: San Domingo (in eastern portion of the Island of Haiti.)

†35: San Domingo (Samana, Cetairre, etc.).

***Aratinga chloroptera maugei**[a] (*Souancé*). MAUGE'S PAROQUET.

Psittacara maugei SOUANCÉ, Rev. et Mag. de Zool., VIII, 1856, p. 59 (Porto Rico).

Conurus gundlachi CABANIS, Orn. Centr., VI, 1851, p. 5 (Mona Island); CORY, Auk, 1886, p. 457; *Id.*, Bds. West Indies, 1889, p. 180 (Mona Island).

Conurus maugei SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 189.

Aratinga chloroptera maugei RIDGWAY, Bds. N. & M. Am., VII, 1916, p. 155.

Range: Mona Island; Porto Rico?

1: Mona Island.

***Aratinga rubritorquis** (*Sclater*). RED-THROATED PAROQUET.

Conurus rubritorquis SCLATER, Proc. Zool. Soc. Lond., 1886, p. 539, pl. 56 ("South America or West Indies" = Nicaragua); SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1897, p. 573.

Aratinga rubritorquis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 156.

Range: Guatemala, Salvador, and Nicaragua.

6: Guatemala 4; Nicaragua 2.

***Aratinga holochlora holochlora** (*Sclater*). GREEN PAROQUET.

Conurus holochlorus SCLATER, Ann. & Mag. Nat. Hist., Ser. 3, IV, 1859, p. 224 (Jalapa, Vera Cruz, Mexico); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 189 (part).

Aratinga holochlora holochlora RIDGWAY, Bull. U. S. Nat. Mus. No. 50, VII, 1916, p. 157.

Range: Mexico and Guatemala.

1: Guatemala.

***Aratinga holochlora strenua** (*Ridgway*). NICARAGUAN GREEN PAROQUET.

Conurus holochlorus strenuus RIDGWAY, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 106 (Omotepe, Nicaragua).

Aratinga holochlora strenua RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 158.

Range: Western Central America, from Salvador to Nicaragua.

7: Nicaragua.

Aratinga brevipes (*Lawrence*). SOCORRO PAROQUET.

Conurus holochlorus var. *brevipes* LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., X, 1871, p. 54 (Socorro Island, Revillagigedo group, off N. W. Mexico).

Conurus brevipes SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 191.

Aratinga brevipes RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 159.

Range: Socorro Islands (off western Mexico).

[a] Doubtfully separable from *A. chloroptera chloroptera* (SOUANCÉ).

***Aratinga leucophthalmus leucophthalmus** (*P. Z. S. Müll*). WHITE-EYED PAROQUET.

Psittacus leucophthalmus MÜLLER, Syst. Nat. Suppl., 1776, p. 75 (Guiana).
Conurus leucophthalmus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 187; GOELDI, Alb. de Aves Amazon, 1902, pl. 16; HELLMAYR, Nov. Zool., XIV, 1907, p. 85; CHUBB, Ibis, 1910, p. 363 (Paraguay).
Aratinga leucophthalmus BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 82; STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 196.
Perruche ara pavouane LEVAIL, Perr., 1801, pls. 14–15.

Range: South America (Colombia, Venezuela, Guiana, etc.) south to Bolivia and Paraguay.

1: Dutch Guiana.

Aratinga leucophthalmus callogenys (*Salvadori*). ECUADORIAN WHITE-EYED PAROQUET.

Conurus callogenys SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 188 (Sarayacu, Ecuador).

Range: Ecuador and Peru.

***Aratinga euops** (*Wagler*). CUBAN PAROQUET.

S[ittace] euops WAGLER, Mon. Psitt., 1832, pp. 638–728, pl. 24, Fig. 2 ("America" = Cuba).
Conurus euops CORY, Auk, 1886, p. 455; *Id.*, Bds. West Indies, 1889, p. 178.
Aratinga euops RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 160.

Range: Cuba formerly, also, Isle of Pines.

4: Cuba.

***Aratinga cactorum cactorum** (*Kuhl*). CACTUS PAROQUET.

Psittacus cactorum KUHL., Consp. Psitt., 1820, p. 82 (Brazil, suggest Bahia).
Aratinga flaviventer SPIX, Av. Bras., 1824, p. 33, pl. XVIII, Figs. 1–2.
Conurus cactorum SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 194; GOELDI, Alb. de Aves Amazon, 1905, p. 38; HELLMAYR, Abh. K. Bayer. Akad. Wiss., München, XXII, 1906, p. 583.
Aratinga cactorum BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 82, No. 761.

Range: Southeast Brazil.

2: Brazil (Bahia and Ceara).

***Aratinga cactorum perpallida** *subsp. nov.*[a] PALE CACTUS PAROQUET.

Range: Province of Ceara, Brazil.

1: Brazil (Ceara, the type specimen).

[a] *Aratinga cactorum perpallida:* Type from Jua, near Iguatu, Ceara, Brazil. Male No. 46988, Field Museum of Natural History. Collected by R. H. Becker, August 7, 1913. Similar to *A. c. cactorum* (KUHL) from Bahia, but general plumage paler, the green lighter, the orange on the abdomen paler; wing, 130; tail, 128 mm.

Genus **THECTOCERCUS** Ridgway.

Thectocercus Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 99 (Type *Psittacus acuticaudatus* Vieillot).

*Thectocercus acuticaudatus (*Vieill.*). SHARP-TAILED PARROT.

Psittacus acuticaudatus VIEILLOT, Nouv. Dict. d'Hist. Nat., XXV, 1817, p. 369 (Paraguay).

Evopsitta acuticauda SOUANCE, Icon. Perr., 1857, pl. IV.

Conurus acuticaudatus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 172; GRANT, Ibis, 1911, p. 326.

Aratinga acuticaudatus BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 80, No. 746.

Range: Paraguay, Uruguay, Bolivia and N. Argentina.

2: Argentina (Tucuman).

*Thectocercus haemorrhous haemorrhous (*Spix*). BLUE-CROWNED PARROT.

Aratinga haemorrhous SPIX, Av. Bras., I, 1824, p. 29, pl. XIII (Prov. of Bahia, Brazil); BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81, No. 747.

Conurus haemorrhous SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 173; HELLMAYR, Abh. K. Bayer. Akad. Wiss., München, II, kl. XXII, Bd. III, 1906, p. 578.

Range: Brazil and Venezuela.

1: Brazil (Bahia).

*Thectocercus haemorrhous neoxenus (*Cory*). MARGARITA PARROT.[b]

Conurus neoxenus CORY, Field Mus. Pub., No. 137, Orn. Ser., I, 1909, p. 243 (Margarita I.).

[*Aratinga*] *neoxenus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81, No. 748.

Range: Margarita Island.

2: Margarita Island (including type).

Genus **EUPSITTULA** Bonaparte.

Eupsittula Bonaparte, Comp. Rend. Ac. Sci., Paris, XXXVII, 1853, p. 807 (Type *Psittacus petzii* Leib. = *P. canicularis* Linn.).

Eupsittula guarouba (*Gmel.*). GOLDEN PAROQUET.

Psittacus guarouba GMELIN, Syst. Nat., I, 1788, p. 320 (Amazon region, northeastern Brazil).

Aratinga carolinae aguttae SPIX, Av. Bras., I, 1824, pl. XII.

[b] *T. h. neoxenus* CORY: Differs from *T. h. haemorrhous* (SPIX) in somewhat darker green plumage and greater extent of bluish on crown. In addition to other characters given in original description as distinguishing this bird, the inner webs of the outer tail feathers are green for a decidedly greater distance from the tip, the red being more restricted than in *T. h. haemorrhous*.

Conurus guarouba SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 174; GOELDI, Alb. de Aves Amazon, 1906, pl. 38; HELLMAYR, Abh. K. Akad. Wiss., München, II, kl. XXII, Bd. III, 1906, p. 578.

Range: Northeastern Brazil.

***Eupsittula solstitialis** (*Linn.*). YELLOW PAROQUET.

Psittacus solstitialis LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 141 (Cayenne).
Aratinga luteus sive *guarouba* SPIX, Av. Bras., I, 1824, p. 3, pl. XIVa.
Conurus solstitialis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 175.
E[upsittula] solstitialis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 162 (footnote).

Range: Guiana and northern Brazil.

1: British Guiana.

***Eupsittula jendaya** (*Gmel.*). YELLOW-HEADED PAROQUET.

Psittacus jendaya GMELIN, Syst. Nat., I, ed. 12, 1788, p. 319 (Brazil).
Aratinga chrysocephalus SPIX, Av. Bras., 1824, I, p. 30, pl. XIV.
Conurus jendaya SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 177; GOELDI, Alb. de Aves Amazon, 1902, pl. 16; HELLMAYR, Abh. K. Bayer, Akad. Wiss., München, II, kl. XXII, Bds. III, 1906, p. 579.

Range: East Brazil (Pernambuco, Ceara, etc.).

1: Brazil ("Maranhao").

***Eupsittula auricapillus auricapillus** (*Kuhl*). GOLDEN-HEADED PAROQUET.

Psittacus auricapillus KUHL, Consp., Psitt., 1820, p. 20 (Brazil).
Conurus auricapillus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 178, part.

Range: Southeast Brazil (Bahia).

2: Brazil (Bahia).

Eupsittula auricapillus aurifrons[a] (*Spix*). GOLDEN-FRONTED PAROQUET.

Aratinga aurifrons SPIX, Aves Bras., I, 1824, p. 32, pl. XVI, Fig. 2 (Minas Geraes, Brazil); BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81, No. 753; HELLMAYR, Abh. K. Bayer. Akad. Wiss., München, XXII, 1906, p. 582.

Range: Southern Brazil (Minas Geraes, Rio de Janeiro, Sao Paulo, etc.).

***Eupsittula weddellii** (*Deville*). WEDDELL'S PAROQUET.

Conurus weddellii DEVILLE, Rev. et Mag. de Zool., 1851, p. 209 (Pebas, Upper Amazon); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 180; GOELDI, Alb. de Aves, Amazon, pt. III, 1906, pl. 38.
Aratinga weddellii BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81, No. 755.

Range: West-central Brazil, east Peru, Ecuador, and Bolivia.

1: Peru (Yurimaguas).

[a] *E. a. aurifrons:* Differs from *E. a. auricapillus* (KUHL) by the deep green color (without any yellowish tinge) of the sides of the head; throat, and upper breast; and the entire lack of the red spots on the lower back. Hellmayr's table of measurements (pp. 582–583) of the two forms shows *aurifrons* to average decidedly larger.

***Eupsittula pertinax pertinax** (*Linn.*). CURACAO PAROQUET.

[*Psittacus*] *pertinax* LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 98 ("Indies" = Curacao, Dutch West Indies).

Conurus pertinax SALVADORI Cat. Bds. Brit. Mus., XX, 1891, p. 197; CORY, Field Mus. Pub., No. 137, Orn. Ser., 1909, p. 206.

Conurus xantholaemus CORY, Auk, 1886, p. 456; *Id.*, Bds. West Indies, 1889, p. 179 (St. Thomas).

Eupsittula pertinax pertinax RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 164.

Aratinga pertinax BREHM., Mon. Papag., 1842, pl. 29.

Range: Curacao Island, Dutch West Indies; St. Thomas Island, Greater Antilles (introduced).

18: Curacao Island (Dutch West Indies) 8; and St. Thomas Island (Greater Antilles) 10.

***Eupsittula pertinax xanthogenia** (*Bonap.*) BONAIRE PAROQUET.

Conurus xanthogenius BONAPARTE, Consp. Gen. Av., I, 1850, p. 1 (Brazil); HARTERT, Ibis, 1893, p. 331; CORY, Field Mus. Pub., No. 137, Orn. Ser., 1909, p. 211.

Eupsittula pertinax xanthogenia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 166.

Range: Bonaire Island, Dutch West Indies.

†12: Bonaire Island (Dutch West Indies).

***Eupsittula pertinax tortugensis** (*Cory*). TORTUGA PAROQUET.

Conurus aeruginosus tortugensis CORY, Field Mus. Pub., No. 137, Orn. Ser., 1909, p. 220 (Tortuga Island).

Eupsittula pertinax tortugensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 163, in key.

Range: Tortuga Island (off Venezuela).

†29: Tortuga Island.

***Eupsittula pertinax arubensis** (*Hartert*). ARUBA PAROQUET.

Conurus arubensis HARTERT, Bull. Brit. Orn. Club, IV, 1892, p. XVI (Aruba).

Conurus aeruginosus arubensis CORY, Field Mus. Pub., No. 137, Orn. Ser., 1909, p. 199.

Eupsittula pertinax arubensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 167.

Range: Aruba Island, Dutch West Indies.

8: Aruba Island (Dutch West Indies).

***Eupsittula pertinax aeruginosus** (*Linn.*). BROWN-THROATED PAROQUET.

Psittacus aeruginosus LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 98 ("America" = Calamar, lower Magdalene River, Colombia).[a]

[a] Type locality as designated by Chapman (l. c.). "Cumana, Venezuela" substituted by Berlepsch and Hartert, Nov. Zool., 1902, p. 107; comes within the range of *chrysophrys*.

Conurus aeruginosus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 195, part.
Eupsittula pertinax aeruginosus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 163, in key.
Aratinga aeruginosus aeruginosus CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 257, crit.
Eupsittula pertinax occidentalis TODD, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 81 (Rio Hacha, Colombia).

Range: Colombia and northwestern Venezuela (east about to Caracas and the province of Zamora and in the Rio Branco region in extreme northern Brazil).[a]

15: Venezuela (Maracaibo 1, Maracay 2, Encontrados, Zulia, 7, Rio Aurare 1); Brazil (Boa Vista, Rio Branco 4).

***Eupsittula pertinax chrysophrys** (*Swainson*). GUIANA BROWN-THROATED PAROQUET.

Conurus chrysophrys SWAINSON in Anim. in Menag., pt. III, 1838, p. 320, No. 120 (Guiana).
Aratinga chrysophrys CHERRIE, Bull. Brooklyn Inst. Arts & Sci., II, No. 6, 1916, p. 331.
C[onurus] chrysophrys CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1915, p. 258, in text, crit.

Range: The Guianas and eastern Venezuela, from about Cumana and Cinidad, Bolivar, eastward.

3: British Guiana 1; and Dutch Guiana 1.

***Eupsittula pertinax margaritensis** *subsp. nov.*[b] MARGARITAN BROWN-THROATED PAROQUET.

Range: Margarita Island (off Venezuela).

19: Margarita Island, including type specimen.

***Eupsittula occularis** (*Sclater and Salvin*). VERAGUA PAROQUET.

Conurus occularis SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1864, p. 367 (Lion Hill, Panama); REICHENOW, Vogelbild, 1880, pl. 17, Fig. 1; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 197.
Eupsittula occularis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 167.

Range: Panama and extreme northwestern Colombia?

2: Panama 1; Colombia (?Boqueron) 1.

[a] Strange to say, all specimens I have seen (4 apparently adults) from the Rio Branco region, N. Brazil, agree perfectly with birds from Rio Aurare and Maracay, northwestern Venezuela (in yellow on face, being absent or confined to trace around the eye, etc.).

[b] *Eupsittula pertinax margaritensis* subsp. nov.: Type from Margarita Island (off Venezuela). Adult male, No. 39151, Field Museum of Natural History. Collected by J. H. Ferry, March 1, 1909. Similar to *E. p. chrysophrys* (SWAINSON) from Guiana in having the pronounced yellow markings on face and other characters, but differs in having the throat and cheeks paler and the forehead more distinctly and more extensively whitish. It approaches very closely to *E. p. chrysophrys*, but in 15 out of 19 specimens from Margarita Island these differences appear to be constant.

***Eupsittula canicularis** (*Linn.*). PETZ'S PAROQUET.

Psittacus canicularis LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 98 ("America").
Conurus pelzii SOUANCE, Icon. Perr., 1857, pl. 9.
Conurus canicularis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 201.
Bupsittula canicularis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 168.

Range: Western Mexico, Guatemala, Honduras, and Nicaragua to western Costa Rica.

†30: Mexico (Colima 15, Guerro 4); Guatemala 7; Nicaragua 3; and Costa Rica 1.

***Eupsittula aurea** (*Gmel.*). GOLDEN-CROWNED PAROQUET.

[*Psittacus*] *aureus* GMELIN, Syst. Nat., I, 1788, p. 1 (Brazil).
[*Aratinga*] *aureus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 82, No. 766.
Eupsittula aurea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 164, in key.
Conurus aurea GOELDI, Alb. de Aves Amazon, 1902, pl. 16.

Range: Guianas, south Brazil, Paraguay, Bolivia, N. E. Argentine.

5: Brazil (Santarem and Bahia).

***Eupsittula astec** (*Souance*). AZTEC PAROQUET.

Conurus astec SOUANCE, Rev. et Mag. de Zool., 1857, p. 97 (Mexico); *Id.*, Icon. Perr., 1857, pl. 12, Fig. 2.
Conurus astec SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 191.
Eupsittula astec RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 171 (cut, pl. XV, Fig. 2).

Range: Southern Mexico to Costa Rica.

†26: Mexico (Tamaulipas) 17; Yucatan 5; Guatemala 3; and Nicaragua 1.

***Eupsittula nana** (*Vigors*). JAMAICAN PAROQUET.

Psittaca nana VIGORS, Zool. Journ., V, 1830, p. 273 (Jamaica); BOURJOT, Perr. 1837, pl. 24; LEAR, Parrots, 1831, pl. 12.
Conurus nanus CORY, Auk, 1886, p. 456; *Id.*, Bds. West Indies, 1889, p. 179; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 191.
Eupsittula nana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 174.

Range: Jamaica, West Indies.

1: Jamaica.

Eupsittula labati (*Rothschild*). GUADELOUPE PAROQUET.

Conurus labati ROTHSCHILD, Bull. Brit. Orn. Club, XVI, 1905, p. 13 (Island of Guadeloupe, Lesser Antilles); SALVADORI, Ibis, 1906, p. 454.
Eupsittula? labati RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 175.

Range: Island of Guadeloupe, West Indies (extinct).

Genus **NANDAYUS** Bonaparte.

Nandayus Bonap., Rev. et Mag. de Zool., VI, 1854, p. 150 (Type *Psittacus nanday* Vieill.).

Nandayus nanday (*Vieill.*). BLACK-HEADED PARROT.

Psittacus nanday VIEILLOT, Enc., Meth., III, 1823, p. 1400 (Paraguay).
Psittaca nanday BOURJ., Perr., 1837, pl. 20.
Conurus nanday SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 179; GRANT, Ibis, 1911, p. 326.
Aratinga nandaya BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 81, No. 754.

Range: Paraguay and N. E. Argentine.

Genus **CONUROPSIS** Salvadori.

Conuropsis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 203 (Type *Psittacus carolinensis* Linn.).

***Conuropsis carolinensis carolinensis** (*Linn.*). CAROLINA PAROQUET.

[*Psittacus*] *carolinensis* LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 97 (South Carolina).
Conuropsis carolinensis carolinensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 144 (cut, pl. XV, Fig. 1).
Conurus carolinensis AUDUBON, Orn. Biog., I, 1832, p. 135, pl. XXVI; Bd. Bwr. and Ridgway, Hist. N. A. Bds., 1874, II, p. 587, part, pl. LVI, Figs. 1–2 (heads); *Id.*, Special ed. 1875 (col. pl. opp. p. 587).
Carolina Parrot CATESBY, N. H. Carolina, I, pl. XI.

Range: Southern Florida, formerly ranging from Florida to Virginia and eastern New York, Pennsylvania, and perhaps somewhat farther west.

† 20: Florida (Kissimmee R., Calooseehatchee R., Okeechobee L., Wikiva creek, Enterprise, and Sanford).

***Conuropsis carolinensis ludovicianus** (*Gmel.*). LOUISIANA PARROT.

[*Psittacus*] *ludovicianus* GMELIN, Syst. Nat., I, 1788, p. 347 (Louisiana).
Conuropsis carolinensis ludovicianus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 147.
Conuropsis carolinensis interior BANGS, Proc. New Eng. Zool. Club., IV, 1913, p. 94.[a]

Range: Formerly Louisiana and Mississippi Valley to Lake Michigan and from West Virginia to eastern Colorado (now extinct).

1: Indian Territory (Gibson).

[a] *Cf.* Ridgway, l. c., p. 150, footnote.

Genus **CYANOLYSEUS** Bonaparte.

Cyanolyseus Bonaparte, Rev. et Mag. de Zool., 1854, p. 150 (Type *Psittacus cyanolyseus* Molina).

Cyanolyseus patagonus (*Vieill.*). PATAGONIAN PAROQUET.

Psittacus patagonus VIEILLOT, Nouv. Dict. N. H., XXV, 1817, p. 367 ("la cote des Patagons").
Cyanolyseus patagonus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 205.

Range: North Patagonia, Uraguay and northern Argentina?

Cyanolyseus byroni (*Childr.*). CHILIAN PAROQUET.

Psittacus (*Aratinga*) *byroni* CHILDR. in Gray's Zool. Misc., 1831, p. 12 (Chile).
Cyanolyseus byroni SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 207.
Ara patagonica SELBY, Nat. Sib. Parr., p. 79 (part) pl. IV.

Range: Chile.

Genus **LEPTOSITTACA** Berl. & Stolz.

Leptosittaca Berlepsch and Stolzman, Ibis, 1894, p. 402 (Type *Leptosittaca branickii* Berl. & Stolz.).

Leptosittaca branickii[a] *Berlepsch and Stoltzman*. BRANICKI'S PAROQUET

Leptosittaca branickii BERLEPSCH and STOLZMAN, Ibis, 1894, p. 402, pl. IX (central Peru).

Range: Central Peru.

Genus **OGNORHYNCHUS** Bonap.

Ognorhynchus Bonaparte, Rem. Obs. Blanch. Psittac., 1857, p. 6 (Type *Conurus icterotes* Souance).

Ognorhynchus icterotis (*Messena and Souance*). YELLOW-EARED PAROQUET.

Conurus icterotis MESS et SOUANCE, Rev. et Mag. de Zool., 1854, p. 71 ("Ocana Novello Grenade").
Gnathosittaca icterotes SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 208.
[*Ognorhynchus*] *izterotis* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 83, No. 771.
Psittacara icterotis SOUANCE, Icon. Perr., 1857, pl. XIX.

Range: Colombia and Ecuador.

[a] *Leptosittaca branickii* BERL. & STOLZ.: About the size of *Aratinga leucopthalmus*, but with longer wings and tail and more slender and shorter bill; a broad naked eye space; general plumage of body dark green, paler below loral region; and streak extending to elongated upper ear coverts golden yellow; lores and extreme forehead darker brownish yellow; pileum anterially tinged with bluish green; middle of abdomen and sides of body yellowish olive, variegated with golden red spots; rectrices, except the two middle ones, soiled yellowish red; the outer ones margined with dark blue.

Genus **ENICOGNATHUS** Gray.

Enicognathus Gray, Gen. Birds, 1840, p. 51 (Type *Psittacara leptorhyncha* King).

***Enicognathus leptorhynchus** (*King*). SLENDER-BILLED PAROQUET.

Psittacara leptorhyncha KING, Proc. Zool. Soc. Lond., 1830, p. 14 (Chile); LEAR, Parrots, 1832, pl. 11.

Henicognathus leptorhynchus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 207.

[*Enicognathus*] *leptorhynchus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 83, No. 772.

Range: Chile.

1: Chile (Cabrero).

Genus **MICROSITTACE** Bonap.

Microsittace Bonaparte, Rev. et Mag. de Zool., VI, 1854, p. 150 (Type *Psittacus amaragdina* Gmel.-*ferrugineus* Mull.).

***Microsittace ferruginea** (*Mull.*). CHILIAN PAROQUET.

Psittacus ferrugineus N. S. MULLER, Syst. Nat. Suppl., 1776, p. 75 (Straits of Magellan).

Microsittace ferrugineus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 210.

Pyrrhura amaragdina REICHENOW, Vogelbild, 1878–83, t. XXII, Fig. 3.

Range: Chile to Straits of Magellan, W. Argentine.

1: Chile ("Valle de Lago Blanco").

Genus **PYRRHURA** Bonap.

Pyrrhura Bonaparte, Naumania, 1856, Consp. Gen Psittacorum, gen. 14 (Type *Psittacus vittatus* Shaw).

***Pyrrhura cruentata** (*Wied.*). RED-EARED PAROQUET.

Psittacus cruentatus NEUWIED, Reise Bras., I, 1820, p. 53 ("Brasilien in Suden").

Aratinga cyanogularis SPIX, Av. Bras., I, 1824, p. 33, col. pl. XVII.

Pyrrhura cruentata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 213; HELLMAYR, Abh. K. Bayer, Akad. Wiss., München, XXII, 1906, p. 583.

Range: Southeast Brazil.

1: "Brazil".

***Pyrrhura vittata vittata** (*Shaw*). RED-BELLIED PAROQUET.

Psittacus vittatus SHAW (neck Bodd.) Gen Zool., VIII, 2, p. 404 ("Brasil").

Aratinga fasciatus SPIX, Av. Bras., I, 1824, p. 35, pl. XXXI, Figs. 1–2.

Pyrrhura vittata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 214; *Id.*, Ibis, 1900, p. 669 (revision); HELLMAYR, Abh. K. Bayer, Akad. Wiss., München, XXII, 1906, p. 585.

Range: Southeast Brazil.

1: Brazil (Faz. Cajoa).

Pyrrhura vittata chiripepe[a] (*Vieill.*). AZARA'S PAROQUET.

Psittacus chiripepe VIEILLOT, Nouv. Dict. d'Hist. Nat., XXV, 1817, p. 361 (Paraguay).

Pyrrhura chiripepe SALVADORI, Ibis, 1900, p. 668; CHUBB, Ibis, p. 263, 1910.

Range: Paraguay and S. Brazil.

1: Brazil (Victoria, Sao Paulo).

Pyrrhura borellii[b] *Salvadori.* BORELL'S PAROQUET.

Pyrrhura borellii SALVADORI, Boll. Mus. Tor., IX, No. 190, 1894, p. 3 (Rio Apa, Paraguay); *Id.*, Ibis, 1900, p. 671.

Range: Paraguay.

***Pyrrhura leucotis** (*Kuhl*). WHITE-EARED PAROQUET.

Psittacus leucotis KUHL. Consp. Psitt., 1820, p. 21 (Brasilia).

Aratinga ninus SPIX, Av. Bras., I, 1824, p. 34, pl. XIX, Fig. 2.

Pyrrhura leucotis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 216.

Range: Brazil.

2: Brazil (Minas Geraes).

Pyrrhura viridicata[c] *Todd.* SANTA MARTA PAROQUET.

Pyrrhura viridicata TODD, Proc. Biol. Soc. Wash., XXVI, 1913, p. 174 (San Lorenza, Santa Marta, Colombia).

Range: Santa Marta region, Colombia.

***Pyrrhura emma** *Salvadori.* SALVADORI'S PAROQUET.

Pyrrhura emma SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 217, pl. 1 (Caripe, Venezuela); *Id.*, Ibis, 1900, p. 674, in key; STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 196 (Caria quito, Venezuela).

Range: Venezuela and Trinidad?

1: "Trinidad."

***Pyrrhura griseipectus**[d] *Salvad.* GREY-BREASTED PAROQUET.

Pyrrhura griseipectus SALVADORI, Ibis, 1900, p. 672 (Hab. ? = Ceara, Hellmayr in litt.).

Range: Northeast Brazil.

7: Brazil (Prov. of Ceara).

[a] *Pyrrhura v. chiripepe* (Vieill.): Resembles *P. v. vittata* (SHAW), but upper surface of rectrices (to the ends) uniform green; bend of wing green.

[b] *P. borelli* SALVADORI: Approaches *chiripepe* (Vieill.), but has the bend of the wing red.

[c] *P. viridicata* TODD: "Above green; wings externally bright blue; tail greenish above, coppery below; under surface mostly dull green; under wing coverts orange; ear coverts dull maroon; narrow frontlet scarlet" (Todd, l. c.).

[d] *P. griseipectus* SALVADORI: A brownish red patch on the lower back; breast with transverse bars or scale-like appearance; cheeks maroon; bend of wing red; foreneck and breast pure gray with the edges of the feathers whitish.

***Pyrrhura picta picta** (*Mull.*). BLUE-WINGED PAROQUET.

Psittacus pictus MÜLLER, Syst. Nat. Suppl., 1776, p. 25 (Cayenne).
Pyrrhura picta picta HELLMAYR, Nov. Zool., XIV, 1907, p. 37 (key).
Pyrrhura picta SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 217.
La Parruche ara a gorge variée LEVAIL, Perr., 1801, I, pl. XVI.

Range: Guiana.

4: Dutch Guiana 2; and British Guiana 2.

Pyrrhura picta amazonum[a] *Hellmayr.* SANTAREM PAROQUET.

Pyrrhura picta amazonum HELLMAYR, Bull. Brit. Orn. Club, XIX, 1906, p. 8 (Obidos, Santarem, Brazil); *Id.*, Nov. Zool., XIV, 1907, p. 37; *Id.*, Nov. Zool., XVII, 1910, p. 403.

Range: Amazon region, central and western Brazil.

Pyrrhura picta luciani (*Deville*).[b] BONAPARTE'S PAROQUET.

Conurus luciani DEVILLE, Rev. et Mag. de Zool., 1851, p. 210 ("Reviere des Amazones").
Pyrrhura picta luciani HELLMAYR, Nov. Zool., XIV, 1907, p. 37.
Pyrrhura luciani SOUANCE, Icon. Perr., 1857, pl. XIV.

Range: West Brazil and Peru.

Pyrrhura subandina *Todd.*[c] JARAQUIL PAROQUET.

Pyrrhura subandina TODD, Proc. Biol. Soc. Wash., XXX, 1917, p. 6 (Jaraquil, Bolivar, Colombia).

Range: Colombia.

Pyrrhura egregia (*Sclater*). DEMERARA PAROQUET.

Conurus egregius SCLATER, Ibis, 1881, p. 130, pl. IV (Demerara).
Pyrrhura egregia SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 221; CHUBB, Bds. Brit. Guiana, I, 1916, p. 313.

Range: British Guiana.

***Pyrrhura calliptera** (*Mess. et Souance*). BEAUTIFUL PAROQUET.

Conurus callipterus MESS, et SOUANCE, Rev. et Mag. de Zool., 1854, p. 72 (Colombia).
Pyrrhura calliptera SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 221; SOUANCE, Icon. Perr., 1857, pl .XVII.

Range: Colombia.

2: "Colombia."

[a] *P. p. amazonum* HELLM.: Like *P. p. picta* (MULL.), but bend of wing green (not red); pale blue on front crown more restricted; green on edges of four central tail feathers restricted to the basal third or half.

[b] *P. p. luciani* DEVILLE: Forehead and more or less of pileum, lores and eye ring, red.

[c] *P. subandina* TODD: "Adult similar to immature *P. luciana* (DEVILLE), but entire loral region crimson instead of mostly maroon; forehead (except for a narrow crimson frontal band) bluish; cheeks mostly bluish instead of maroon; blue nuchal band broader and less mixed with green; red color of rump and abdomen somewhat darker and duller and under parts in general more tinged with bluish" (Todd, l. c.).

Pyrrhura melanura melanura (*Spix.*). BLACK-TAILED PAROQUET.

Aratinga melanurus SPIX, Av. Bras., I, 1824, p. 36, pl. XXII, Figs. 1–2 (Amazon River region).

Pyrrhura melanura SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 222.

Range: Northern Brazil and eastern Peru.

Pyrrhura melanura pacifica[a] *Chapman.* CHAPMAN'S BLACK-TAILED PAROQUET.

Pyrrhura melanura pacifica CHAPMAN, Bull. Am. Mus. N. H., XXXIV, 1915, p. 382 (Buena Vista, Narino, S. W. Colombia); *Id.*, Bull. Am. Mus. N. H., XXXVI, 1917, p. 259.

Range: S. W. Colombia.

Pyrrhura souancei (*Verr.*). SOUANCE'S PAROQUET.

Microsittace souancei (VERREAUX), Rev. et Mag. de Zool., 1858, p. 437, pl. 12 (Rio Napo).

Pyrrhura souancei SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 223; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 259 (provisionally referred to this species).

Range: Ecuador and eastern Peru; Colombia?

Pyrrhura berlepschi *Salvadori.* BERLEPSCH'S PAROQUET.

Pyrrhura berlepschi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 224, pl. II, Fig. 1; BERLEPSCH, Jour. für Ornith., 1889, p. 316 (Chyvatas, Peru).

Range: Eastern Peru.

***Pyrrhura rupicola** (*Tschudi*). ROCK PAROQUET.

Conurus rupicolor TSCHUDI, Arch. für Naturg., 1844, p. 304 (Peru); *Id.*, Faun. Peru, I, 1884, p. 272, pl. XXVI, Fig. 1.

Pyrrhura rupicolor SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 224, pl. 2, Fig. 2.

Range: Peru.

1: "Peru".

Pyrrhura albipectus[b] *Chapman.* WHITE-THROATED PAROQUET.

Pyrrhura albipectus CHAPMAN, Bull. Am. Mus. N. H., XXXIII, 1914, p. 319 (Zamora, Province Loja, Ecuador)..

Range: Ecuador.

[a] *P. m. pacifica* CHAPMAN: "Similar to *P. m. melanura* (SPIX), but smaller, the tail relatively much shorter; primary coverts not tipped with yellow; tail above redder; forehead greener; bare orbital region blackish (instead of whitish, in dried skins); bill less stout; mandible blacker." (Chapman, l. c.).

[b] *P. albipectus* CHAPMAN: "Differing from any known species of *Pyrrhura* in having the throat and breast buffy white, without or with, but slight indication (in immature specimens only?) of terminal bars, and in other characters." (Chapman, l. c.).

***Pyrrhura molinae molinae** (*Messena et Souancé*). MOLINA'S PAROQUET.

Conurus molinae MESS. et SOUANCÉ, Rev. et Mag. de Zool., 1854, p. 73 (Bolivia); SCLATER and HUDSON, Argentina Orn., 1886, II, p. 43, pl. XIV.

Pyrrhura molinae SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 225.

Range: Central and southern Brazil, Bolivia and Argentina.

2: Argentina (Ledesma Prov. Jujuy).

Pyrrhura molinae australis[a] *Todd*. ARGENTINE PAROQUET.

Pyrrhura molinae australis TODD, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 82 (Rio Bermijo, Argentina).

Range: Northern Argentina.

Pyrrhura hypoxantha[b] *Salvadori*. MATTO-GROSSO PAROQUET.

Pyrrhura hypoxantha SALVADORI, Boll. Mus. Torino, XIV, 1899, p. 363; *Id.*, Ibis, 1900, p. 671, pl. XIV (Matto Grosso, Brazil).

Range: Central Brazil.

Pyrrhura devillei (*Messena et Souancé*). DEVILLE'S PAROQUET.

Conurus devillei MESS. et SOUANCÉ, Rev. et Mag. de Zool., 1854, p. 72 (Bolivia).

Pyrrhura devillei SOUANCÉ, Icon. Perr., 1857, pl. XVI; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 226.

Range: Bolivia.

Pyrrhura perlata (*Spix*). PEARLY PAROQUET.

Aratinga perlata SPIX, Av. Bras., I, 1824, p. 35, pl. XX, Fig. 1 ("Amazonum adjacentibus" = N. E. Brazil).

Pyrrhura perlata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 227; HELLMAYR, Nov. Zool., 1905, p. 301; *Id.*, 1906, p. 381; *Id.*, Adh. K. Bayer, Akad. Wiss., München, XXII, 1906, p. 584; GOELDI, Alb. de Aves Amazon, pt. III, 1906, p. 38.

Range: Northeast Brazil (Para and Maranhao).

Pyrrhura rhodogaster *Sclater*. ROSE-BELLIED PAROQUET.

Pyrrhura rhodogaster SCLATER, Proc. Zool. Soc. Lond., 1864, p. 298, pl. 24 (Borba, Brazil); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 228; HELLMAYR, Nov. Zool., XVII, 1910, p. 404.

Range: Rio Madeira region, interior of Brazil.

[a] *P. m. australis* TODD: "Similar to *Pyrrhura molinae molinae* (MESS. et SOUANCÉ), but general coloration decidedly deeper; pileum and nape darker (nearer fuscous than sepia) and sides of head and neck correspondingly darker; throat and breast darker, less buffy, with the paler feather-edgings narrower; abdomen more extensively red; and outer tail-coverts scarcely or not tinged with blue." (Todd, l. c.)

[b] *P. hypoxantha* SALVADORI: No brown-red patch on lower back; distinct pectora bars present; sides of body and thighs yellow.

Pyrrhura haematotis *Souancé*. BLOOD-RED PAROQUET.

Pyrrhura haematotis SOUANCÉ, Rev. et Mag. de Zool., 1857, p. 97 (Venezuela); *Id.*, Icon. perr., 1857, pl. XVIII; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 229.

Range: Venezuela.

***Pyrrhura rhodocephala** (*Sclater and Salvin*). ROSE-HEADED PAROQUET.

Conurus rhodocephala SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1870, p. 787 (Vicinity of Merida, Venezuela).

Pyrrhura rhodocephala SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 229, pl. III.

Range: Venezuela.

2: Venezuela (Valle).

***Pyrrhura hoffmanni hoffmanni** (*Cabanis*). HOFFMANN'S PAROQUET.

Conurus hoffmanni CABANIS, Sitzb. d. Ges. Naturf. Freunde Zu Berlin, 1861 13 Nov. (Costa Rica): SCLATER and SALVIN, Exotic Orn., 1869, p. 161 pl. 81.

Pyrrhura hoffmanni CABANIS, Journ. fur Ornith., X, 1862, p. 335; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 230.

Pyrrhura hoffmanni hoffmanni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 176 (cut, pl. XVI, Fig. 1).

Range: Costa Rica.

1: Costa Rica.

Pyrrhura hoffmanni gaudens *Bangs*. CHIRIQUI PAROQUET.

Pyrrhura hoffmanni gaudens BANGS, Proc. Biol. Soc. Wash., XIX, 1906, p. 103 (Boquete, Chiriqui, W. Panama); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 178.

Range: Western Panama.

Genus **MYOPSITTA** Bonaparte.

Myopsitta Bonaparte, Rev. et Mag. de Zool., VI, 1854, p. 150 (Type *Psittacus murinus* Gm.).

***Myopsitta monacha** (*Bodd.*). GREEN PAROQUET.

Psittacus monacha BODDAERT, Tabl. Pl. Enl., 1783, p. 48 (Montevideo).

Sittace canicollis SOUANCÉ, Icon. Perr., 1857, pl. XXIII.

Myopsittacus monachus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 231; GRANT, Ibis, 1911, p. 326.

Range: Uruguay, Paraguay, Argentina,[a] and Brazil.

3: Argentina.

[a] *Myopsitta monacha calita* (JARD. and SELBY), (Ill. Orn. pl. 32), from N. E. Argentine, is recognized as a good race by Hartert and Venturi (Nov. zool. 1909, p. 234) and Dabbene (Bol. Soc. Physis i, 1914, p. 310). It is smaller and paler.

Myopsitta luchsi (*Finsch*). BOLIVIAN GREEN PAROQUET.

Bolborhynchus luchsi FINSCH, Papag., II, 1868, p. 121 (Bolivia).
Myopsittacus luchsi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 233, pl. IV.

Range: Bolivia.

Genus **BOLBORHYNCHUS** Bonaparte.

Bolborhynchus Bonaparte, Rem. Obs. Blanchard, Psitt., 1857, p. 6 (Type *Bolborhynchus catharina* Bonap. *Psittacula lineola* Cass.).

***Bolborhynchus lineola lineola** (*Cassin*). BARRED PAROQUET.

Psittacula lineola CASSIN, Proc. Acad. Nat. Sci. Phila., VI, 1853, p. 372 (Vera Cruz, Mexico); Journ. Acad. Nat. Sci. Phila., III, 1855, p. 154, pl. 14, Fig. 1.
Bolborhynchus lineolatus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 239.
Bolborhynchus lineola lineola RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 179.

Range: Eastern Mexico to Panama.
1: Costa Rica.

Bolborhynchus lineola maculatus (*Ridgway*). PERUVIAN BARRED PAROQUET.

Grammopsittaca lineola maculata RIDGWAY, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 106 (eastern Peru?).
Bolborhynchus lineola maculatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 179, in key.

Range: Eastern Peru?

Bolborhynchus andicola (*Finsch*). ANDEAN PAROQUET.

Psittacula andicola FINSCH, Proc. Zool. Soc. Lond., 1874, p. 90 (Paucartambo, east Peru).
Bolborhynchus andicola SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 238, pl. V; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 179, in key.

Range: Peru.

Genus **AMOROPSITTACA** Richmond.

Amoropsittaca Richmond, Proc. Biol. Soc. Wash., 1915, p. 183 (Type *Arara aymara* d'Orb.).

***Amoropsittaca aymara** (*d'Orbigny*). SIERRA PAROQUET.

Arara aymara d'ORBIGNY Voy. Amer. Merid., II, 1839, p. 376 (La Paz, Bolivia).
Bolborhynchus aymara SOUANCÉ, Icon. Perr., 1857, pl. XXIII; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 234.

Range: Bolivia, N. W. Argentine.
2: Bolivia (Argue and Parotani).

Genus **PSILOPSIAGON** Ridgway.

Psilopsiagon Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 100 (Type *Trichoglossus aurifrons* Wagl.).

Psilopsiagon rubrirostris (*Burm.*). RED-BELLIED PAROQUET.

Conurus rubrirostris BURMEISTER, Journ. für Ornith., 1860, p. 243 (Sierra de Mendoza and Cordova).

Bolborhynchus rubrirostris SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 235.

Range: Andes of Argentina and Chile.

***Psilopsiagon orbignyi** (*Bonap.*). D'ORBIGNY'S PAROQUET.

Myopsitta orbygenesia Bonaparte, Rev. et Mag. de Zool., 1854, p. 151 (Yungas, Bolivia).

Bolborhynchus orbygnesia SOUANCÉ, Icon. Perr., I, 1857, pl. XXIV.

Bolborhynchus orbignyi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 236.

Range: North Chile, N. W. Argentine, Bolivia, southern Peru.

3: Peru (Eirapata, Puno).

Psilopsiagon aurifrons (*Lesson*). GOLD-FRONTED PAROQUET.

Psittacus (Lathamus) *aurifrons* LESSON, Cent. Zool., 1830, p. 63, pl. 18 (Peru).

Conurus aurifrons BOURJ. Perr., 1838, pl. 45.

Bolborhynchus aurifrons SOUANCÉ, Icon. Perr., 1857, pl. XXIV, Fig. 2 (♀); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 236.

Range: Peru.

Genus **PSITTACULA** Illiger.

Psittacula Illiger, Prodr. Mam. et Av., 1811, p. 200 (Type *Psittacus passerinus* Linn.).

***Psittacula xanthops** *Salvin.* YELLOW-FACED PARROTLET.

Psittacula xanthops SALVIN, Nov. Zool., II, 1895, p. 1, pl. 2, Fig. 2 (Vina, Huamachuco, N. Peru); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 188, in key.

Range: North Peru.

1: Peru (Vinon, Maranon).

***Psittacula coelestis coelestis** (*Lesson*). LESSON'S PARROTLET.

Agapornis coelestis LESSON, Compl. Oeuvr. de Buffon, XX, 1847, p. 198 (near Guayaquil, W. Ecuador).

Psittacula coelestis SOUANCÉ, Icon. Perr., 1857, p. XI; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 241.

Range: West Ecuador.

1: "Peru"?

Psittacula coelestis lucida *Ridgway*. RIDGWAY'S PARROTLET.

P[sittacula] coelestis lucida RIDGWAY, Proc. U. S. Nat. Mus., X, 1888, pp. 532–538 (Colombia); *Id.*, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 188, in key.

Range: Colombia.

***Psittacula conspicillata conspicillata** *Lafr.* SPECTACLED PARROTLET.

Psittacula conspicillata LAFRESNAYE, Rev. et Mag. de Zool., XI, 1848, p. 172 (Colombia[a]); SOUANCÉ, Icon. Perr., 1857, pl. XLI; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 243; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 188, in key; STONE, Proc. Acad. Nat. Sci. Phila., 1899, p. 304.

Psittacula conspicillata conspicillata CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 260.

Range: Colombia and eastern Ecuador?

†9: Colombia.

Psittacula conspicillata caucae[b] *Chapman*. CAUCA SPECTACLED PARROTLET.

Psittacula conspicillata caucae CHAPMAN, Bull. Am. Mus. N. H., XXXIV, 1915, p. 383 (Coli, Cauca Valley, Colombia); *Id.*, XXXVI, 1917, p. 260.

Range: Cauca Valley region, Colombia.

Psittacula modesta modesta (*Cabanis*). SCHOMBURGK'S PARROTLET.

Psittacula modesta CABANIS in Schomburgk's Reis. Brit. Guiana, III, 1848, p. 727 (British Guiana); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key; CHUBB, Bds. Brit. Guiana, I, 1916, p. 315.

Psittacula modesta modesta HELLMAYR, Nov. Zool., XVII, 1910, p. 404.

Range: The Guianas, north Brazil and Venezuela.

Psittacula modesta sclateri (*Gray*).[c] SCLATER'S PARROTLET.

Psittacula sclateri GRAY, List Bds. Brit. Mus., II, Psittacidae, 1859, p. 86 (Rio Javarri, Upper Amazon); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 261 (La Muralla, Colombia).

P[sittacula] modesta sclateri HELLMAYR, Novit. Zool., XVII, 1910, p. 405 (crit.).

Range: Eastern Peru, eastern Ecuador (to the Rio Javarri region) and (?) southern Colombia (Muralla).

[a] Chapman suggests Honda, upper Magdalena River, Colombia, as the type locality for *P. c. conspicillata* LAFR. See Bull. Amer. Mus. N. H., XXXIV, 1915, p. 384.

[b] *P. c. caucae* CHAPMAN: "Similar to *P. c. conspicillata* LAFR. of the Bogota region, but larger; the wings and tail constantly longer; the bill averaging heavier; the blue areas of the rump, inner wing quills, upper and under wing coverts, decidedly less purple; spectrum blue rather than Hays blue or blue-violet in color." (Chapman, l. c.)

[c] *Psittacula modesta sclateri* (GRAY): Similar to *P. m. modesta* (CABANIS), but differs in somewhat darker and more greenish coloration, (most noticeable on the under parts) and males have the rump darker blue.

***Psittacula crassirostris** *Taczan.* LARGE-BILLED PARROTLET.

Psittacula crassirostris TACZANOWSKI, Proc. Zool. Soc. Lond., 1883, p. 72 (Yurimaguas, Peru); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 247; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key.

Psittacula passerina crassirostris HELLMAYR, Nov. Zool., XIV, 1907, p. 87.

Range: East Peru and west Brazil.

2: Peru (Moyobamba and Menocucho).

***Psittacula vivida vivida** (*Ridgway*). RIDGWAY'S BRAZILIAN PARROTLET.

Psittacula passerina vivida RIDGWAY, Proc. U. S. Nat. Mus., X, 1888, p. 539 (Bahia, Brazil).

Psittacula vivida vivida RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key.

Psittacula passerina vivida HELLMAYR, Nov. Zool., XIV, 1907, p. 86.

Psittacula vivida CHUBB, Ibis, 1910, p. 264 (Paraguay).

Range: Southern Brazil to Paraguay and northern Argentina.

†12: Brazil (Bahia and Minas Geraes).

***Psittacula vivida flavescens** (*Salvadori*). SALVADORI'S PARROTLET.

Psittacula flavescens SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 248 (Bolivia); HELLMAYR, Nov. Zool., XIV, 1907, p. 86, in litt.

Psittacula vivida flavescens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key.

Range: Middle Brazil north to Amazon River and west to Bolivia.

6: Brazil (Province of Ceara).

Psittacula cyanopygia cyanopygia (*Souancé*). MEXICAN PARROTLET.

Psittacula cyanopygia SOUANCÉ, Rev. et Mag. de Zool., 1856, p. 157 (no locality given, northwestern Mexico may be accepted); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 249.

Psittacula cyanopygia cyanopygia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 191 (cut, pl. XVI, Fig. 3).

Range: State of Sinaloa, W. Mexico.

Psittacula cyanopygia pallida *Brewster.* SONORAN PARROTLET.

Psittacula cyanopygia pallida BREWSTER, Auk, 1889, p. 85 (Alamos, Sonora, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 193.

Range: State of Sonora, N. W. Mexico.

Psittacula insularis *Ridgway.* GRAYSON'S PARROTLET.

Psittacula insularis RIDGWAY, Proc. U. S. Nat. Mus., X, 1888, p. 534 (Tres Marias Islands, off N. W. Mexico); SALVADORI, Ibis, 1906, p. 41; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 193.

Range: Tres Marias Islands, off N. W. Mexico.

Psittacula spengeli *Hartlaub.* SPENGEL'S PARROTLET.

Psittacula spengeli HARTLAUB, Proc. Zool. Soc. Lond., 1885, p. 614, pl. XXXVIII, Fig. 1 (Barranquilla, Colombia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 250; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 195.

Psittacula exquisita RIDGWAY, Proc. U. S. Nat. Mus., 1887, p. 542.

Range: Caribbean Coast, region of Colombia and eastern Panama?

***Psittacula passerina passerina** (*Linn.*). BLUE-WINGED PARROTLET.

P[sittacus] passerinus LINNAEUS, Syst. Nat., ed. 10, 1758, p. 103 ("America" = Guiana).

Psittaculus guianensis SOUANCÉ, Icon. Perr., 1807, pl. 39; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 251 (part).

Psittaculus guianensis guianensis HELLMAYR, Nov. Zool., XIV, 1907, p. 87.

Psittacula passerina passerina RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 190, in key.

Psittacula passerina CHUBB, Bds. Brit. Guiana, I, 1916, p. 315; DESCOURTILZ, Orn. Bras., 1852, pl. 11, Fig. 1.

Range: Guianas.

1: British Guiana.

Psittacula passerina delicosa (*Ridgway*). DELICATE PARROTLET.

Psittacula delicosa RIDGWAY, Proc. U. S. Nat. Mus., X, 1888, p. 533 (Diamantina Creek, near Santarem, lower Amazon River, Brazil).

Psittacula passerina delicosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 190, in key.

Range: Northeast Brazil, south side of lower Amazon.

Psittacula passerina cyanophanes[a] *Todd.* RIO HACHA PARROTLET.

Psittacula passerina cyanophanes TODD, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 81 (Rio Hacha, Colombia).

Range: Rio Hacha region, Colombia.

***Psittacula passerina cyanochlora** *Hartl.* HARTLAUB'S PARROTLET.

Psittacula cyanochlora HARTLAUB, Proc. Zool. Soc. Lond., 1885, p. 615, pl. XXXVIII, Fig. 2 (Rio Branco, Amazonas, N. Brazil).

Psittacula passerina cyanochlora RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 190, in key.

Range: Rio Branco Valley, N. Brazil.

6: Brazil (Boa Vista, Rio Branco).

[a] *Psittacula passerina cyanophanes* TODD: "Adult male similar in general to the same sex of *Psittacula passerina viridissima* LAFR., but with much more hyacinth blue on the primary and secondary coverts, forming a conspicuous patch in the closed wing, while this color is also much more extended on the under wing-coverts." (Todd, l. c.).

***Psittacula passerina viridissima** *Lafr.* GREEN PARROTLET.

Psittacula viridissima LAFRESNAYE, Rev. Zool., 1848, p. 172 (Caracas, Venezuela) HELLMAYR, Nov. Zool., XIV, 1907, p. 38 (in litt.).

Psittacula guianensis (not *Agapornis guianensis* Swainson) SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 251 (Part).

Psittacula passerina viridissima RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 190, in key.

Range: Northern Venezuela and north Colombia.

†25: Venezuela (Caracas, Maracay and Encontrados).

Genus **BROTOGERIS** Vigors.

Brotogeris Vigors, Zool. Journ., II, 1825, p. 400 (Type *Psittacus pyrrhopterus* Latham).

Brotogeris ferrugineifrons *Lawrence.* RUFOUS-FRONTED PAROQUET.

Brotogerys ferrugineifrons LAWRENCE, Ibis, 1880, p. 238 (Bogota, Colombia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 253, footnote; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 88, No. 822.

Range: Colombia.

Brotogeris pyrrhopterus (*Lath.*). ORANGE-FLANKED PAROQUET.

Psittacus pyrrhopterus LATHAM, Ind. Orn. Suppl., II, 1802, p. 22 ("Brasilia").

Psittacula griseifrons BOURJ., Perr., 1837–38, pl. 86.

Brotogerys pyrrhopterus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 258.

Range: West Ecuador and northwest Peru.

***Brotogeris jugularis** (*Müller*). TOVI PAROQUET.

Psittacus jugularis MÜLLER, Syst. Nat. Suppl., 1766, p. 80 ("America" = Colombia, designated by Brabourne and Chubb).

Conurus tovi CASSIN, Proc. Acad. Nat. Sci. Phila., 1860, p. 137.

Conurus tovi gutture-luteo BOURJ., Perr., 1837–38, pl. 48.

Brotogerys jugularis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 259; BANGS, Proc. Biol. Soc. Wash., 1898, p. 132 (Santa Marta); ALLEN, Bull. Am. Mus. N. H., XIII, 1900, p. 132 (Bonda).

Brotogeris jugularis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 183 (cut, pl. XIII, Fig. 2); BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 88; CHAPMAN, Bull, Am. Mus. N. H., XXXVI, 1917, p. 261.

Range: Southern Mexico to Colombia and W. Venezuela.

†36: Guatemala 3; Costa Rica 2; Panama 2; Nicaragua 21; Coiba Island 2; Colombia 3; and Venezuela (Orope, Zulia) 3.

Brotogeris devillei (*Salvadori*). DEVILLE'S PAROQUET.

Sittace devillei GRAY, Hand List, II, p. 150 (n. n.).

Brotogerys devillei SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 261 (Amazon River); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 183, in key.

Range: Central Colombia to Valleys of Upper Amazon and Rio Negro, Brazil.

***Brotogeris gustavi** *Berlepsch.* GUSTAVE'S PAROQUET.

Brotogerys gustavi BERLEPSCH, Ibis, 1889, p. 181, pl. VI (Inanfue, Upper Huallaga River, Peru); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 262.

Brotogeris gustavi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 183, in key.

Range: East Peru.

†15: Peru (Moyobamba, Yurimaguas, etc.).

***Brotogeris tuipara** (*Gmel.*). TUIPARA PAROQUET.

Psittacus tuipara GMELIN, Syst. Nat., I, 1788, p. 348 ("Brasilia").

Brotogerys tuipara SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 263; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 5.

Brotogeris tuipara RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 183, in key.

Range: Northeast Brazil.

2: Brazil (Utinga, Lower Amazon).

***Brotogeris chrysopterus** (*Linn.*). GOLDEN-WINGED PAROQUET.

Psittacus chrysopterus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 149 ("India" = Guiana, designated by Brabourne and Chubb).

Brotogerys chrysoptera REICHN., Vogelbild, 1878–83, pl. 28, Fig. 2; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 263.

Brotogeris chrysopterus CHUBB, Bds. Brit. Guiana, I, 1916, p. 318.

Range: Guiana.

3: British Guiana.

***Brotogeris chrysosema** *Sclater.* GOLDEN PAROQUET.

Brotogerys chrysosema SCLATER, Proc. Zool. Soc. Lond., 1864, p. 298 (Brazil): REICHN., Vogelbild, 1878–83, pl. 28 Fig. 3; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 265.

Brotogeris chrysosema BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 88, No. 830; HELLMAYR, Nov. Zool., XVII, 1910, p. 405.

Range: Rio Madeira Region, Brazil.

1: Brazil (Porto Velho, Rio Madeira).

Brotogeris sanctae-thomae (*Mull.*). TUI PAROQUET.

Psittacus st. thomae MULLER, Syst. Nat. Suppl., 1776, p. 81 (Brazilian Amazons).

Brotogerys tui SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 265; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 8.

La Perruche Tui, Levaill, Perr, 1805, pl. 70.

Range: Northwest Brazil, east Peru, and east Ecuador.

Genus TIRICA Bonaparte.

Tiraca Bonaparte, Rev. et Mag. de Zool. (2), VI, 1854, p. 151 (Type *Psittacus tirica* Gmelin).

*Tirica tirica (*Gmel.*). GREEN PAROQUET.

Psittacus tiraca GMELIN, Syst. Nat., I, 1788, p. 351 (no locality, Brazil designated by Brabourne and Chubb).

Aratinga acutirostris SPIX, Av. Bras., I, 1824, p. 32, pl. XV, Fig. 1.

Brotogerys tiraca SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 254; HELLMAYR, Abh. K. Bayer. Akad. Wiss., München, II Kl., XXII, Bd. III, 1906, p. 580.

Brotogeris tirica CHUBB, Bds. Brit. Guiana, I, 1916, p. 317.

Range: Eastern and southern Brazil; British Guiana[a]?

*Tirica chiriri (*Vieill.*). ORANGE-WINGED PAROQUET.

Psittacus chiriri VIEILLOT, Nouv. Dict. d'Hist. Nat., XXV, 1817, p. 359 (Paraguay).

Psittacara xanthoptera BOURJ., Perr., 1837–38, pl. 23.

Aratinga xanthopterus SPIX, Av. Bras., 1824, I, p. 31, pl. XV, Fig. 2.

Brotogerys chiriri SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 255; HELLMAYR, Abh. K. Bayer. Akad. Wiss., München, II Kl., XXII, Bd. III, 1906, p. 580.

Range: Paraguay, East Peru, Bolivia and west Brazil.

†8: Brazil (Minas Geraes, Sao Marcello, Bahia).

*Tirica virescens (*Gmel.*). YELLOW-WINGED PAROQUET.

Psittacus virescens GMELIN, Syst. Nat., I, 1788, p. 326 ("Cayenna").

Brotogerys virescens SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 257; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 4.

Range: East Peru and Amazon region of North Brazil to Para.

1: Brazil (Arraria Island, Amazon River).

Genus NANNOPSITTACA Ridgway.

Nannopsittaca Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 100 (Type *Brotogerys panychlorus* Salv. and Godman).

Nannopsittaca panychlora (*Salvin and Godman*). RORAIMA PARROTLET.

Brotogerys panychloras SALVIN and GODMAN, Ibis, 1883, p. 211, pl. IX, Fig. 1 (Mt. Roraima, British Guiana).

Bolborhynchus panychloras SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 238; CHUBB, Bds. Brit. Guiana, I, 1916, p. 314.

Range: British Guiana.

[a] Recorded from British Guiana in Schomburgk Reis. Guian., III, p. 727, 1848.

Genus **AMAZONA** Lesson.

Amazona Lesson, Traite d'Orn., 1831, p. 189 (Type *Psittacus pulverulentus* Gmelin=*P. farinosus* Bodd.).

*Amazona imperialis *Richmond*. IMPERIAL PARROT.

Psittacus augustus (not of Shaw, 1792) VIGORS, Proc. Zool. Soc. Lond., 1837, p. 80 ("South America"=Dominica).

Chrysotis augusta CORY, Auk, 1886, p. 461; *Id.*, Bds. West Indies, 1889, p. 184; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 274.

Androglossa augusta REICHENOW, Vogelbild, 1883, pl. 32, Fig. 7.

Amazona imperialis RICHMOND, Auk, 1899, p. 186, in text (new name for *Psittacus augustus* Vig., preoccupied); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 223.

Range: Dominica, West Indies.

2: Dominica.

Amazona violacea (*Gmel.*). GUADELOUPE PARROT.

Psittacus violaceus GMELIN, Syst. Nat., I, pt. I, 1788, p. 337 (Guadeloupe).

Amazona violaceus ROTHSCHILD, Extinct Birds, 1907, p. 57, pl. 17[a].

Amazona violacea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 224.

Range: Gaudeloupe Island, West Indies (extinct).

*Amazona guildingi (*Vigors*). ST. VINCENT PARROT.

Psittacus guildingi VIGORS, Proc. Zool. Soc. Lond., 1837, p. 80 (St. Vincent); BOURJOT, Perr., 1837-38, pl. 64.

Chrysotis guildingi CORY, Auk, 1886, p. 462; *Id.*, Bds. West Indies, 1889, p. 185; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 273.

Amazona guildingii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 225.

Range: St. Vincent, Lesser Antilles.

1: St. Vincent?

*Amazona versicolor (*Muller*). ST. LUCIA PARROT.

Psittacus versicolor MULLER, Syst. Nat. Suppl., 1776, p. 78 ("Havana," based on Parroquet de la Havane, Daubenton, Pl. Enl., p. 360).

Chrysotis versicolor CORY, Auk, 1886, p. 463; *Id.*, Bds. West Indies, 1889, p. 186; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 276.

Amazona versicolor RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 227.

Range: St. Lucia, Lesser Antilles.

1: St. Lucia.

*Amazona arausiaca (*Mull.*). BOUQUET'S PARROT.

Psittacus arausiacus MULLER, Syst. Nat. Suppl., 1776, p. 79 (Dominica, based on Blue-faced Parrot, Edwards Birds, pl. 230).

Psittacus bouqueti BREHM., Mon. Papag., 1842, pl. 54.

[a] Plate does not agree with Du Tertre's description. See also remarks by Ridgway, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 224, footnote.

Chrysotis bouqueti BONAP., Rev. et mag. de Zool., 1854, p. 51; CORY, Auk, 1886, p. 462; *Id.*, Bds. West Indies, 1889, p. 185; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 277.

Amazona arausiaca RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 229.

Range: Dominica, Lesser Antilles.

4: Dominica.

Amazona martinicana *A. H. Clark.* MARTINIQUE PARROT.

Psittacus leucocephalus var. VIEILLOT, Nouv. Dict. d'Hist. Nat., XXV, 1817, p. 332 (Martinique).

Amazona martinicana A. H. CLARK, Auk, 1905, p. 343; ROTHSCHILD, Extinct Birds, 1907, p. 57, pl. 18[a]; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 231.

Range: Island of Martinique, Lesser Antilles (extinct).

***Amazona vinacea** (*Kuhl*). VINACEOUS PARROT.

Psittacus vinaceous KUHL, Consp. Psitt., p. 77, 1820 ("Brasilia").

Psittacus columbinus SPIX, Av. Bras., I, 1824, p. 40, pl. XXVII; BOURJOT, Perr., 1837–38, pl. 65.

Chrysotis vinacea SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 275.

Range: East and south Brazil, Paraguay and northern Argentina.

1: Argentina.

***Amazona auropalliata** (*Lesson*). YELLOW-NAPED PARROT.

Psittacus (*Amazona*) *auro-palliatus* LESSON, Rev. Zool., V, 1842, p. 135 ("Realejo Centre Amerique" = Nicaragua).

Chrysotis auropalliata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 291.

Chrysotis auripalliata SOUANCE, Icon. Perr., 1857, pl. 27.

Amazona auropalliata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 231.

Amazona schmidti IHERING, Rev. Mus. Paul., III, 1899, p. 321[b].

Range: Southern Mexico, Guatemala, Salvador, Honduras (and Ruatan Island, etc.) to western Costa Rica.

†7: Guatemala 1, and Nicaragua 6.

***Amazona autumnalis autumnalis** (*Linn.*). YELLOW-CHEEKED PARROT

[*Psittacus*] *autumnalis* LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 102 ("America").

Psittacus autumnalis BREHM, Mon. Papag., XII, 1854, pl. 57.

Chrysotis autumnalis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 302.

Amazona autumnalis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 234.

Range: Southeastern Mexico to southern Honduras.

†13: Mexico (Vera Cruz 2, Tampico 4, San Luis, Potosi 1); and Guatemala (Chapulco, Los Antes 6).

[a] Plate does not agree with description. See also Ridgway, l. c., footnote.

[b] *Cf.* Salvadori, Ibis, 1906, p. 646.

***Amazona autumnalis salvini** (*Salvadori*). SALVIN'S PARROT.

Chrysotis salvini SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 300, pl. 7, Fig. 3 (Lion Hill, Panama); SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1897, p. 592.

Amazona autumnalis salvini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 237.

Range: Nicaragua to northern Colombia.

†9: Costa Rica (Guayabo, Orosi) 7; and Colombia (Boqueron) 2.

Amazona lilacina *Lesson*. LESSON'S PARROT.

Amazona lilacina LESSON, Echo du Mond., Savant, 1844, t. 2, p. 394 (Guayaquil).

Chrysotis lilacina SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 301, pl. VII, Fig. 1.

Range: Western Ecuador.

Amazona diadema (*Spix*). DIADEMED PARROT.

Psittacus diadema SPIX, Av. Bras., I, 1824, p. 43, pl. XXXII (Amazon River).

Chrysotis diadema SOUANCE, Icon. Perr., 1857, pl. XXXII.

Chrysotis diademata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 299, pl. VII, Fig. 2.

Range: North Brazil (region of the Rio Negro).

***Amazona amazonica amazonica** (*Linn.*). ORANGE-WINGED PARROT.

[*Psittacus*] *amazonicus* LINNAEUS, Syst. Nat., ed. 12, 1766, p. 147 (Surinam).

Chrysotis amazonica REICHENOW, Vogelbild, 1878, pl. 1, Fig. 6; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 283.

Amazona amazonica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 219, in key; STONE, Proc. Acad. Nat. Sci., Phila., 1913, p. 196 (Manimo R., Venezuela).

Range: Colombia to the Guianas and northern Brazil; Trinidad[a].

3: Dutch Guiana (Paramaribo, Surinam) 1; Brazil (Conceicao, Amazonas) 1; and Venezuela (Orope, Zulia) 1.

***Amazona amazonica tobagensis**[b] subsp. nov. TOBAGO ORANGE-WINGED PARROT.

Range: Tobago Island, West Indies.

5: Tobago Island.

[a] I have not seen specimens from Trinidad.

[b] *Amazona amazonica tobagensis* subsp. nov.: Type from Tobago Island, West Indies. Adult female, No. 21006, Field Museum of Natural History. Collected by W. W. Brown, May 3, 1892. Similar to *Amazona amazonica amazonica* (LINN.), from Guiana, but averaging slightly larger and outer webs of four secondaries (instead of three, as in *A. a. amazonica*) marked with reddish orange. Wing, 210; tail, 119 mm.

***Amazona mercenaria** (*Tsch.*). TSCHUDI'S PARROT.

Psittacus mercenarius TSCHUDI, Wiegm. Arch., 1844, I, p. 303 (Peru).

Chrysotis mercenaria TACZ., Orn. Peru, III, 1886, p. 221, Tabl. p. 100; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 282; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 262 (Colombia).

Range: Peru, Ecuador and Colombia.

1: Ecuador (Perambe).

***Amazona aestiva aestiva** (*Linn.*). BLUE-FRONTED PARROT.

Psittacus aestivus LINNAEUS, Syst. Nat., ed. 12, I, 1766, p. 146 ("America" = S. Brazil, Chubb).

Chrysotis aestiva REICHN., Vogelbild, 1871, pl. 1, Fig. 7; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 285.

Amazona aestiva GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 15.

Range: Central Brazil, south to Paraguay and Argentina.

1: Brazil? (mounted).

Amazona aestiva xanthropteryx[a] (*Berl.*). YELLOW-WINGED PARROT.

Chrysotis xanthropteryx BERLESPCH, Orn. Monatsber., IV, 1896, p. 173 (Bueyes, Bolivia).

[*Amazona*] *xanthropertyx* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 89.

Range: East Bolivia, Paraguay and Argentina.

Amazona farinosa farinosa (*Bodd.*). MEALY PARROT.

Psittacus farinosus BODDAERT, Tabl. Pl. Enl., 1783, p. 52 (Cayenne).

Chrysotis farinosa REICHENOW, Vogelbild, 1881, pl. 19, Fig. 1; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 280.

Amazona farinosa farinosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 220, in key; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 15; HELLMAYR, Nov. Zool., XVIII, 1910, p. 406.

Range: Guianas and northern Brazil.

***Amazona farinosa inornata** (*Salvadori*). PLAIN-COLORED PARROT.

Chrysotis inornata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 281 (Veragua, W. Panama).

Amazona farinosa inornata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 239.

Range: Panama, Colombia, Venezuela, Ecuador and Peru.

4: Panama 1; Venezuela (Orope, Zulia) 2; and Ecuador (Rio Verde) 1.

Amazona farinosa virenticeps (*Salvadori*). GREEN-HEADED PARROT.

Chrysotis virenticeps SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 280 (Bugaba, Chiriqui, W. Panama).

Amazona farinosa virenticeps RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 240.

Range: Nicaragua and Costa Rica to western Panama.

[a] *Amazona a. xanthropteryx* (BERLEPSCH): Western form of *A. a. aestiva* (LINN.), differing chiefly in having the front border of wing golden yellow instead of red.

***Amazona farinosa guatemalae** (*Sclater*). BLUE-CROWNED PARROT.

Chrysotis guatemalae SCLATER, Ibis, 1860, p. 44 (Guatemala and Honduras); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 279.

Amazona farinosa guatemalae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 241.

Range: Southern Mexico and Guatemala to Honduras.

2: Guatemala; and Mexico (Vera Cruz).

***Amazona viridigenalis** (*Cassin*). RED-CROWNED PARROT.

Chrysotis viridigenalis CASSIN, Proc. Ac. Nat. Sci., Phila., VI, 1853, p. 371 ("S. Am."); SOUANCE, Icon. Perr., 1857, pl. 31.

Chrysotis coccineifrons SOUANCE, Rev. et Mag. de Zool., 1856, p. 154 (Colombia?).

Chrysotis viridigena SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 297.

Amazona viridigenalis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 242.

Range: Northeastern and eastern Mexico (Colombia and Ecuador?).[a]

†10: Mexico (San Luis Potosi, Tamaulipas, and Vera Cruz).

***Amazona xanthops** (*Spix*). ORANGE-FACED PARROT.

Psittacus xanthops SPIX, Av. Bras., I, 1824, p. 39, pl. XXVI (Minas Geraes, Brazil).

Chrysotis hypochondriaca SOUANCE, Icon. Perr., 1857, p. XXXIII.

Chrysotis xanthops SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 304.

Range: Central and eastern Brazil.

3: Brazil (Sao Marcello, Bahia).

Amazona brasiliensis (*Linn.*). RED-TAILED PARROT.

Psittacus brasiliensis LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 147 ("Brasilia").

Chrysotis brasiliensis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 305.

Le Perroquet a joues blues LEVAILL, Perr., 1805, pl. 106.

Range: Southern Brazil.

Amazona bodini (*Finsch*). BODIN'S PARROT.

Chrysotis bodini FINSCH, Proc. Zool. Soc., Lond., 1873, p. 569, pl. XLIX (Middle Orinoco); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 307.

Amazona bodini CHUBB, Bds. Brit. Guiana, I, 1916, p. 326.

Range: Venezuela and British Guiana.

Amazona finschi (*Sclater*). FINSCH'S PARROT.

Chrysotis finschi SCLATER, Proc. Zool. Soc., Lond., 1864, p. 298 (Mexico); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 298.

Chrysotis viridigenalis (not of Cassin) SOUANCE, Icon. Perr., 1857, part, pl. 31, upper fig.

Amazona finschi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 244.

Range: Western Mexico.

[a] Given as from Colombia and Ecuador by Brabourne and Chubb (Bds. S. A., I, 1912, p. 91, No. 855). Its occurrence south of Mexico requires confirmation.

***Amazona oratrix oratrix** *Ridgway*. DOUBLE YELLOW-HEAD PARROT.

Chrysotis levaillanti GRAY (not *Amazona levaillantii* Lesson) List Bds. Brit. Mus., Psitt., 1859, p. 79; SALVIN and GODMAN, Biol. Centr. Am., Aves, II, 1897, p. 587, part; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 293, part.

A[mazona] oratrix RIDGWAY, Man. N. Am. Bds., 1887, p. 587 (new name for *Chrysotis levaillantii* Gray, preoccupied).

Amazona oratrix oratrix RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 249.

Range: Mexico to southern Honduras.

1: "Mexico" (mounted).

Amazona oratrix tresmariae *Nelson*. TRES MARIAS PARROT.

Amazona oratrix tresmariae NELSON, Auk, 1900, p. 256 (Maria Madre Island, Tres Marias Group off W. Mexico).

Range: Tres Marias Islands, off western Mexico.

Amazona nattereri (*Finsch*). NATTERER'S PARROT.

Psittacus (*Chrysotis*) *nattereri* FINSCH, Journ. fur Ornith., 1864, p. 411 ("im Brasilia bei Mamoré Cacheira da Bananeiro").

Chrysotis nattereri SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 294.

Range: West Brazil.

***Amazona dufresneana** (*Shaw*). DUFRESNE'S PARROT.

Psittacus dufresnianus SHAW, Gen. Zool., VIII, 1811, p. 513 (Cayenne).

Chrysotis dufresniana SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 295.

Le Perroquet Dufresne LEVAILL, Hist. Nat. de Perr., II, p. 53, pl. 91.

Range: Guiana.

4: British Guiana.

Amazona rhodocorytha (*Salvadori*). RED-BROWED PARROT.

Chrysotis rhodocorytha SALVADORI, Ibis, 1890, p. 370 (Brasilia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 296.

Range: S. E. Brazil.

***Amazona ochrocephala ochrocephala** (*Gmel.*). YELLOW-HEADED PARROT.

Psittacus ochrocephalus GMELIN, Syst. Nat., I, 1788, p. 339 ("America Australi" ="Colombia" Chubb); CASSIN in Gillis U. S. Naval Astr. Expedition, II, 1855, p. 189, pl. 22.

Chrysotis poecilorhyncha SOUANCE, Icon. Perr., 1857, pl. 28.

Chrysotis ochrocephala SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 289.

Amazona ochrocephala ochrocephala RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 221, in key; GOELDI, Alb. de Aves Amazon, pt. III, 1905, pl. 38, Fig. 1; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 262 (Colombia).

Range: Colombia, Venezuela and Trinidad, Ecuador, and eastern Peru.

7: Colombia 3; Venezuela 1; British Guiana 1; and Brazil (Boa Vista, Amazonas) 2.

***Amazona ochrocephala panamensis** (*Cabanis*). PANAMA YELLOW-HEADED PARROT.

Chrysotis panamensis CABANIS, Journ. für Ornith., 1874, p. 349 (Panama); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 291.

Amazona ochrocephala panamensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 251 (Panama); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 263 (Tropical Zone of the Magdalena R., Colombia).

Range: Panama and N. W. Colombia (tropical zone of the Magdalena River).

3: Panama.

Amazona ochrocephala xantholaema[a] *Berlepsch*. MARAJO YELLOW-HEADED PARROT.

Amazona ochrocephala xantholaema BERLEPSCH, Orn. Monatsb., XXI, 1913, p. 147 (Island of Marajo, mouth of the Amazon River, Brazil).

Range: Island of Marajo, mouth of Amazon River, Brazil.

***Amazona barbadensis barbadensis** (*Gmel.*). YELLOW-SHOULDERED PARROT.

Psittacus barbadensis GMELIN, Syst. Nat., I, 1788, p. 399 ("Barbados").

Chrysotis ochroptera REICHENOW, Vogelbild, 1878, pl. 1, Fig. 5; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 288; HARTERT, Ibis, 1893, p. 329, pl. 9, Fig. 1 (Aruba Island).

Amazona barbadensis barbadensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 251.

Range: Venezuela and Margarita Island, Trinidad, Aruba Island, and Dutch West Indies.

1: Aruba Island.

Amazona barbadensis rothschildi (*Hartert*). ROTHSCHILD'S PARROT.

Chrysotis rothschildi HARTERT, Bull. Brit. Orn. Club, III, 1892, p. XIII (Bonaire Island, Dutch West Indies); *Id.*, Ibis, 1893, p. 328, pl. 9, Fig. 2; LOWE, Ibis, 1907, p. 117.

Amazona ochroptera rothschildi CORY, Field Mus. Pub. No. 137, Orn. Ser., I, 1909, p. 211.

Amazona barbadensis rothschildi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 253.

Range: Bonaire Island, Margarita and Blanquilla, off Venezuela.

†13: Margarita 1. 4; and Blanquilla 9.

[a] *A. o. xantholaema* BERLEPSCH: Differs from *A. o. ochrocephala* (GMEL.) in being larger, bill longer, sides of head largely yellow (not green), and much more yellow on crown.

Amazona tucumana (*Caban.*). TUCUMAN PARROT.

Chrysotis tucumana CABANIS, Journ. fur Ornith., 1885, p. 221 (Tucuman); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 311; LABBENE, Ann. Mus. Nat. de Buenos Aires, XVIII, 1910, p. 260.

Range: Northern Argentina (Tucuman).

Amazona pretrei (*Temm.*). PRETRE'S PARROT.

Psittacus pretrei TEMMINCK, Pl. Col., 1830, p. 492 (no locality; South Brazil suggested by Brabourne and Chubb).

Chrysotis pretrei SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 310.

Amazona pretrei BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 90.

Range: South Brazil and Uruguay, La Plata River.

Amazona festiva festiva (*Linn.*). FESTIVE PARROT.

Psittacus festivus LINNAEUS, Syst. Nat., ed. 12, 1766, p. 147 ("Habitat in Indiis" Guiana by designation by Brabourne and Chubb); SILBY, Nat. Lib. Parrots, 1836, p. 102, pl. IX.

Chrysotis festiva SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 307.

Amazona festiva BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 90; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 15, Fig. 4.

Range: Guiana, Venezuela and N. Brazil.

Amazona festiva chloronota[a] (*Souance*). SOUANCE'S FESTIVE PARROT.

Chrysotis chloronota SOUANCE, Rev. et Mag. de Zool., 1856, p. 153; SOUANCE (Amazonia); Icon. Perr., 1857, pl. XXIX; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 308, pl. VIII.

Amazona chloronota SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 163.

Range: Upper Amazon, N. E. Peru (Iquitos).

***Amazona albifrons albifrons** (*Sparr.*). WHITE-FRONTED PARROT.

Psittacus albifrons SPARRMAN, Mus. Carls. fasc. 3, 1787 (based on White-crowned Parrot, Latham, Synop. Bds., 1781, p. 281, No. 88, var B) (no definite locality = Mexico).

Chrysotis albifrons SOUANCE, Icon. Perr., 1857, pl. 30; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 257.

Amazona albifrons albifrons RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 255 (cut, pl. XVII, Fig. 2).

Range: Mexico, from Sinaloa to Oaxaca.

1: Mexico.

***Amazona albifrons nana** *Miller*. LESSER WHITE-FRONTED PARROT.

Amazona albifrons nana MILLER (W. de W.), Bull. Am. Mus. N. H., XXI, 1905, p. 349 (Calotmul, Yucatan); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 257.

Range: Yucatan and Guatemala to western Costa Rica.

6: Guatemala; Honduras; and Nicaragua.

[a] Doubtfully separable from *A. f. festiva* (LINN.), but may prove to be a good race (see remarks Salvadori, l. c.). "Lower part of back green" Snethlage, l. c.).

Amazona albifrons saltuensis *Nelson.* SONORAN PARROT.

Amazona albifrons saltuensis NELSON, Proc. Biol. Soc., Wash., XIII, 1899, p. 26 (Camoa, Sonora, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 259.

Range: State of Sonora, N. W. Mexico.

***Amazona xantholora** (*Gray*). YELLOW-LORED PARROT.

Chrysotis xantholora GRAY, List Bds. Brit. Mus., Psitt., 1859, p. 83 (Honduras); REICHENOW, Vogelbild, 1878, pl. 1, Fig. 9; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 313.

Amazona xantholora RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 260.

Range: Yucatan, Cozumel Island, and British Honduras.

4: Yucatan.

***Amazona agilis** (*Linn.*). LESSER JAMAICAN PARROT

Psittacus agilis LINNAEUS, Syst. Nat., ed. 10, 1758, p. 99 (Jamaica).

Chrysotis agilis CORY, Auk, 1886, p. 460; *Id.*, Bds. West Indies, 1889, p. 183; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 319.

Amazona agilis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 262.

Le Petit Parroquet vert. LEVAILL, Perr., 1805, pl. 105.

Range: Island of Jamaica, Greater Antilles.

5: Jamaica.

Amazona vittata vittata (*Blodd.*). PORTO RICAN PARROT.

Psittacus vittatus BODDAERT, Tabl. Pl. Enl., 1783, p. 49 (based on Paroquet de St. Dominique, Daub. Pl. Enl., pl. 792).

Chrysotis vittata CORY, Auk, 1886, p. 458; *Id.*, Bds. West Indies, 1889, p. 181; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 309, WETMORE Bull. U. S. Dept. Agri., No. 326, 1916 p. 55.

Amazona vittata vittata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 263.

Range: Island of Porto Rico, Greater Antilles.

2: Porto Rico.

Amazona vittata gracilipes *Ridgw.* CULEBRA ISLAND PARROT.

Amazona vittata gracilipes RIDGWAY, Proc. Biol. Soc., Wash., XXVIII, 1915, p. 106 (Culebra Island, near Porto Rico); *Id.*, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 265.

Range: Culebra Island, near Porto Rico, Greater Antilles.

***Amazona ventralis** (*Müller*). SAN DOMINGO PARROT.

Psittacus ventralis MÜLLER, Syst. Nat. Suppl., 1776, p. 79 ("Martinique" = Haiti and San Domingo).

Chrysotis sallaei SCLATER, Proc. Zool. Soc., Lond., 1857, p. 224, pl. 127; CORY, Bds. Haiti and San Domingo, 1885, p. 115, pl. 23, Fig. 6; *Id.*, Auk, 1886, p. 458; *Id.*, Bds. West Indies, 1889, p. 181.

Chrysotis ventralis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 314.

Amazona ventralis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 265.

Range: Haiti and San Domingo, Island of Haiti, Greater Antilles.

†23: San Domingo (Catare, Maniel, etc.).

***Amazona collaria** (*Linn.*). JAMAICAN PARROT.

Psittacus collarius LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 102 (Jamaica).
Chrysotis collaria CORY, Auk, 1886, p. 459; *Id.*, Bds. West Indies, 1889, p. 182; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 318.

Range: Island of Jamaica, Greater Antilles.

6: Jamaica.

***Amazona leucocephala leucocephala** (*Linn.*). CUBAN PARROT.

Psittacus leucocephalus LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 100 ("America").
Chrysotis leucocephala CORY, Auk, 1886, p. 459, part; *Id.*, Bds. West Indies, 1889, p. 182, part; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 315, part.
Amazona leucocephala leucocephala RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 269.

Range: Island of Cuba, Greater Antilles.

6: Cuba.

Amazona leucocephala palmarum[a] *Todd.* ISLE OF PINES PARROT.

Amazona leucocephala palmarum TODD, Ann. Carnegie Mus., X, 1916, p. 228, (Los Indios, Isle of Pines); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 272.

Range: Isle of Pines, near Cuba, Greater Antilles.

***Amazona leucocephala caymanensis** (*Cory*). CAYMAN PARROT.

Chrysotis caymanensis CORY, Auk, 1886, p. 497 (Grand Cayman Island, south of Cuba); *Id.*, Bds. West Indies, 1889, p. 297; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 317.
Amazona leucocephala caymanensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 272; BANGS, Bull. Mus. Comp. Zool., LX, 1916, p. 308.

Range: Grand Cayman Island, (south of Cuba).

†28: Grand Cayman.

Amazona leucocephala hesterna[b] *Bangs.* CAYMAN BRAC PARROT.

Amazona leucocephala hesterna BANGS. Bull Mus. Comp. Zool., LX, 1916, p. 308 (Cayman Brac Island).

Range: Islands of Cayman Brac and Little Cayman, south of Cuba.

[a] *Amazona leucocephala palmarum* TODD: "Similar to *A. l. leucocephala* (LINN.), but general color darker green, abdominal purplish red patch averaging darker and more extensive, and the throat somewhat deeper red." (Todd, l. c.).

[b] *Amazona leucocephala hesterna* BANGS: "Similar to true *A. l. leucocephala* (LINN.) of Cuba, but smaller; paler green, lime-green or mignonette-green (in Cuban bird about Krongberg's green); under tail coverts and under surface of tail (beyond the red base) paler and more yellowish; red belly patch always large, more sharply contrasted and brighter red without lavender shimmer-bright hydrangea red (dark vinaceous almost always more or less touched with lavender in true *leucocephala*); under surface of closed wing paler and duller blue, more greenish, much more as in *A. l. caymanensis*; shorter upper tail coverts, sometimes also longer upper tail and lower rump feathers more or less extensively edged and tipped with red." (Bangs, l.c.). Average wing: males, 132 mm. I have not seen this subspecies.

***Amazona leucocephala bahamensis** (*Bryant*). BAHAMA PARROT.

Psittacus collarius (var *bahamensis*) BRYANT, Proc. Boston Soc. N. H., XI, 1867, p. 65 (Fortune, Acklin, and Inagua Island, Bahamas).

Chrysotis collaria (not *Psittacus collarius* Linn.) CORY, Bds. Bahama Islands, 1880, p. 123.

Amazona leucocephala bahamensis CORY, Cat. Bds. West Indies, 1892, p. 141; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 273.

Chrysotis bahamensis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 317.

Chrysotis leucocephala CORY, Auk, 1886, p. 459; *Id.*, Bds. West Indies, 1889, p. 182, part (Bahamas).

Range: Inagua, Acklin and Fortune Islands (formerly also Abaco and Long Island) Bahama Island.

†13: Inagua Island, Bahamas.

Genus **GRAYDIDASCALUS** Bonaparte.

Graydidascalus Bonaparte, Rev. et Mag. de Zool., VI, 1854, p. 147 (Type *Psittacus viridissimus* Swainson = *P. brachyurus* Temm.).

Graydidascalus brachyurus (*Temm. and Kuhl.*). SHIRT-TAILED PARROT.

Psittacus brachyurus TEMMINCK and KUHL in Kuhl, Consp. Psitt., 1820, p. 72 ("Cajana").

Psittacus pumilio SPIX, Av. Bras., I, 1824, p. 41, pl. XXIX, Fig. 2.

Pachynus brachyurus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 320; GOELDI, Alb. de Aves Amazon, pt. II, 1902, pl. 15, Fig. 10.

Range: North Brazil, Ecuador and eastern Peru.

Genus **PIONUS** Wagler.

Pionus Wagler, Mon. Psitt., 1832, p. 497 (Type *Psittacus menstruus* Linn.).

Pionus menstruus (*Linn.*). BLUE-HEADED PARROT.

Psittacus menstruus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 148 (Surinam).

Pionus menstruus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 322; GOELDI, Alb. de Aves Amazon, pt. II, 1902, pl. 15, Fig. 9; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 210 (cut, pl. XVIII, Fig. 1).

Range: Costa Rica to the Guianas, Brazil, Peru and Bolivia.

14: Costa Rica 1; Colombia 4; Venezuela 1; British Guiana 1; Peru 6; and Brazil 1.

Pionus reichenowi (*Heine*). REICHENOW'S PARROT.

Pionias reichenowi HEINE, Journ. fur Ornith., 1884, p. 264 (northern Brazil or Peru).

Pionus reichenowi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, pp. 324–325, footnote; MARTORELLI, Ann. del Mus. Zool., della Univ. de Napoli, II, 1908, p. 8, pl. 12.

Range: ? Peru or northern Brazil.

Pionus cobaltinus (*Messena and Souance*). COBALT PARROT.

Psittacus cobaltinus MESS. and SOUANCE, Rev. et Mag. de Zool., 1854, p. 74 (Colombia).

Pionus cobaltinus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 325, footnote; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 91, No. 859.

Range: Colombia?

Pionus sordidus sordidus (*Linn.*), SORDID PARROT.

Psittacus sordidus LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 99 ("Mexico"; Venezuela suggested by Brabourne and Chubb).

Pionus sordidus REICHENOW, Vogelbild, 1880, pl. 10, Fig. 4; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 325.

Range: Venezuela.

Pionus sordidus saturatus[a] *Todd.* COLOMBIAN SORDID PARROT.

Pionus sordidus saturatus TODD, Proc. Biol. Soc., Wash., XXVIII, 1915, p. 81 (Cincinnati, Santa Marta, Colombia).

Range: Northern Colombia.

Pionus corallinus *Bonap.* CORRALLINE PARROT.

Pionus corrallinus BONAPARTE, Rev. et Mag. de Zool. (2), VI, 1854, p. 148 (America; Colombia designated by Brabourne and Chubb); SCLATER in Rowley's Orn. Misc., III, p. 6, pl. LXXX; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 326; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 91, No. 861.

Range: Colombia and Ecuador.

***Pionus maximiliani maximiliani** (*Kuhl*). MAXIMILIAN'S PARROT.

Psittacus maximiliani KUHL, Consp. Psitt., 1820, p. 72 ("Brazilia").

Psittacus flavirostris SPIX, Av. Bras., 1824, I, p. 42, pl. 31, Fig. 2.

Pionus maximiliani SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 327.

Pionus siy SOUANCÉ, Icon. Perr., 1857, pl. XXXIV, Fig. 1.

Range: Brazil, Paraguay and Argentina?

3: Brazil (Macacao Secco, Bahia 2; and Parana 1).

Pionus maximiliani lacerus (*Heine*). TUCUMAN PARROT.

P[ionias] lacerus HEINE, Journ. fur Ornith., 1884, p. 265 (Tucuman, Argentina).

Pionus lacerus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 329, footnote.

Range: Northwest Argentina.

[a] *P. s. saturatus* TODD: "Similar in general to *P. s. sordidus* (LINN.), but differing conspicuously in its much darker, greener coloration, both above and below; the feathers of upper parts without conspicuous paler olive brown or olive grayish edgings, and the under surface much darker and more uniform green, with little or no brownish and vinaceous tinge." (Todd, l. c.).

Pionus bridgesi *Boucard*. BRIDGE'S PARROT.

Pionus bridgesi BOUCARD, The Humming Bird, I, 1891, p. 27 (Bolivia and Corrientes, Argentina); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 329.

Range: Bolivia, Paraguay and N. W. Argentina.

***Pionus tumultuosus** (*Tschudi*). TSCHUDI'S PARROT.

P[sittacus] tumultuosus TSCHUDI, Wiegmann's Archiv. fur Naturg., X, 1884, p. 304 (Peru).

Pionias tumultuosus REICHENOW, Vogelbild, 1882, pl. 26, Fig. 2.

Pionus tumultuosus SCLATER in Rowley's Orn. Misc., III, 1877, p. 6, pl. 81; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 330.

Range: Peru and Bolivia.

1: Peru (Marcapata).

***Pionus seniloides seniloides** (*Messena and Souance*). MESSENA'S PARROT.

Psittacus selinoides (sic) MESSENA and SOUANCE, Rev. et Mag. de Zool., VI, 1854, p. 73 (Colombia).

Pionus seniloides SOUANCE, Icon. Perr., 1857, pl. 36; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 330, part.

Range: Colombia and Venezuela?

1: Colombia.

Pionus seniloides gerontodes (*Finsch*).[a] FINSCH'S PARROT.

Pionias gerontodes FINSCH, Papag., II, 1868, p. 455 (Ecuador).

Pionus seniloides gerontodes CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 263, in text.

Range: Ecuador.

***Pionus senilis** (*Spix*). WHITE-CROWNED PARROT.

Psittacus senilis SPIX, Av. Bras., I, 1824, p. 42, pl. 31, Fig. 1 (no type locality, type in Münich Museum); BOURJOT, Perr., 1837–38, pl. 60.

Pionus senilis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 331; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 215.

Range: Southern Mexico to Costa Rica.

8: Guatemala 2; and Costa Rica 6.

***Pionus chalcopterus** (*Fraser*). BRONZE-WINGED PARROT.

Psittacus chalcopterus FRASER, Proc. Zool. Soc., Lond., 1841, p. 59 (Bogota, Colombia).

Pionus chalcopterus SOUANCE, Icon. Perr., 1857, pl. XXXV; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 333; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 209, in key.

Range: Colombia and Ecuador.

1: Colombia (Bogota).

[a] *P. s. gerontodes* (FINSCH): Differs from *P. s. seniloides* (MESS. & SOUANCE) from Colombia in having only the forehead pinkish, whereas, in the Colombian form the pinkish color extends on the front of the crown to behind the eyes.

***Pionus fuscus** (*Müll.*). DUSKY PARROT.

Psittacus fuscus MÜLLER, Syst. Nat. Suppl., 1776, p. 78 (Cayenne).
Pionias violaceus REICHENOW, Vogelbild, 1878–83, pl. XXVI, Fig. 3.
Pionus fuscus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 334; GOELDI, Alb. de Aves Amazon, 1902, pt. 2, pl. 15, Fig. 8; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 209, in key; CHUBB, Bds. Brit. Guiana, I, 1916, p. 330.

Range: Guianas and northern and northeastern Brazil.

4: Dutch Guiana 1; and British Guiana 3.

Genus **DEROPTYUS** Wagler.

Deroptyus Wagler, Mon. Psitt., 1832, p. 492 (Type *Psittacus accipitrinus* Linn.).

***Deroptyus accipitrinus accipitrinus** (*Linn*). HAWK-HEADED PARROT.

Psittacus accipitrinus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 148 ("Habitat in India" = Cayenne, substituted by Hellmayr, Nov. Zool., 1905, p. 303); SPIX, Aves Brazil, I, 1824, p. 44, pl. XXXIIa; BOURJ., Perr., 1837–38, pl. 62.
Deroptyus accipitrinus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 335; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 15, Fig. 1; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 92, No. 869; SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 164.

Range: Guiana and north Brazil.

1: British Guiana.

Deroptyus accipitrinus fuscifrons[a] *Hellmayr*. BRAZILIAN HAWK-HEADED PARROT.

Deroptyus accipitrinus fuscifrons HELLMAYR, Nov. Zool., XII, 1905, p. 303 (Para); SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 165.

Range: Northeastern Brazil.

Genus **TRICLARIA** Wagler.

Triclaria Wagler, Mon. Psitt., 1832, p. 489 (Type *Psittacus cyanogaster* Vieill.).

***Triclaria cyanogaster** (*Vieill.*). BLUE-BELLIED PARROT.

Psittacus cyanogaster VIEILLOT, Nouv. Dict. d'Hist. Nat., XXV, 1817, p. 328 (Rio de Janeiro); BOURJ., Perr., 1837–38, pl. 57.
Psittacus molachitaceus SPIX, Av. Bras., I, 1824, p. 40, pl. XXVIII (immature).
Triclaria cyanogaster REICHENOW, Vogelbild, 1878–83, pl. XXVI, Fig. 8; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 337.

Range: Southeast Brazil.

2: Brazil (Victorio, Sao Paulo).

[a] *Deroptyus accipitrinus fuscifrons* HELLMAYR: Like *D. a. accipitrinus* (LINN.), but differs in lacking the coppery or rosy red patches on the base of the outer tail feathers and in having the whole forehead and crown uniformly dusky or only slightly mottled with brownish white. The ground color of the sides of the head is darker brown.

Genus **PIONOPSITTA** Bonaparte.

Pionopsitta Bonaparte, Rev. et Mag. de Zool., (2), 1854, p. 152 (Type *Psittacus pileatus* Scopoli).

*Pionopsitta pileata (*Scopoli*). RED-CAPPED PARROT.

Psittacus pileatus SCOPOLI, Ann. Hist. Nat., I, 1769, p. 32 (no type locality = S. E. Brazil; designated by Brabourne and Chubb).

Psittacus maitaca SPIX, Av. Bras., I, 1824, p. 41, pl. XXIX, Fig. 1, pl. XXX.

Pionopsittacus pileatus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 340; CHUBB, Ibis, 1910, p. 264 (Paraguay).

Range: Southeast Brazil to Paraguay.

2: Brazil (Sao Paulo).

Pionopsitta melanotis (*Lafr.*)[a] BLACK-EARED PARROT.

Pionus melanotis LAFRESNAYE, Rev. Zool., 1847, p. 67 (Bolivia).

Pionopsittacus melanotis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 339.

Range: Bolivia; Southwest Brazil?

Genus **HAPALOPSITTACA** Ridgway.

Hapalopsittaca Ridgway, Proc. Biol. Soc., Wash., XXV, 1912, p. 100 (Type *Psittacus amazoninus* Des Murs).

Hapalopsittaca amazonina amazonina (*Des Murs*). AMAZONIAN PARROT.

Psittacus amazoninus DES MURS, Rev. Zool., 1845, p. 207 (Bogota, Colombia); *Id.*, Icon. Orn., 1845, pl. 15.

Pionopsittacus amazoninus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 342.

Range: Colombia (Venezuela?).

*Hapalopsittaca amazonina theresae[b] (*Hellmayr*). THERESAE'S PARROT.

Pionopsitta amazonina theresae HELLMAYR, Verh. Orn. Gesell. in Bayern, XII, 1915, No. 3, p. 214 (El Escorial, Venezuela).

Range: Venezuela.

1: Venezuela (Capata).

[a] No specimens seen by me and placed provisionally in this genus.

[b] *H. a. theresae* (HELLM.): Similar to *H. a. amazonina* (DES MURS) from the Bogota region, but differs in the much darker dusky brownish-red color of the chin spots (instead of clear vermilion) and the throat and breast intense reddish olive brown (instead of olive yellowish green); auricular region darker olive; back darker green; bill somewhat more slender. ♂Wing, 155–160; tail, 89½–90 mm.

Hapalopsittaca fuertesi (*Chapman*).[a] FUERTE'S PARROT.

Pionopsitta fuertesi CHAPMAN, Bull. Am. Mus. N. H., XXXI, 1912, p. 143 (Laguneta, 10,300 ft., near Quindis Pass, Cauca, Colombia); *Id.*, Bull. Am. Mus., N. H., XXXVI, 1917, p. 264.

Range: Temperate zone of central Andes, Colombia.

Hapalopsittaca pyrrhops (*Salvin*). RED-FACED PARROT.

Pionopsitta pyrrhops SALVIN, Ibis, 1876, p. 495 ("Santa Rita and San Lucas, Rep Aequat").

Pionopsittacus pyrrhops SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 341, pl. IX.

Range: Western Ecuador.

Genus **EUCINETUS** Reichenow.[b]

Eucinetus Reichenow, Jour. fur Ornith., 1881, p. 353 (Type *Psittacus caica* Latham).

***Eucinetus caica** (*Lath.*). CAICA PARROT.

Psittacus caica LATHAM, Ind. Orn., I, 1790, p. 128 (Cayana).

Pionopsittacus caica SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 345.

Pyrilia caica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 202, in key.

La Perroquet Caica Levaill, Perr., 1805, pl. 133.

Pionopsitta caica CHUBB, Bds. Brit. Guiana, I, 1916, p. 334.

Range: Guiana.

1: British Guiana (Maruzini River).

***Eucinetus haematotis haematotis** (*Sclater and Salvin*). RED-EARED PARROT.

Pionus haematotis SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1860, p. 300 (Vera Paz, Guatemala).

Pionopsittacus haematotis SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 343.

Pyrilia haematotis haematotis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 203.

Range: Southern Mexico to western Panama.

11: Costa Rica 9; W. Panama 1; and Guatemala 1.

***Eucinetus haematotis coccinicollaris** (*Lawr.*). RED-NECKLACED PARROT.

Pionius coccinicollaris LAWR., Ann. Lyc. Nat. Hist., N. Y., VII, 1862, p. 475 (Lion Hill, Panama).

Pionopsittacus coccinicollaris SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 344.

[a] *H. fuertesi* (CHAPMAN): Most nearly related to *H. a. amazonina* (DES MURS), having dark red on upper surface of tail and the maxillary tomium unnotched as in that species, but differs in having the face yellow and the crown blue, and the tail averages somewhat longer.

[b] *Cf.* Chapman, Bull. Am. Mus. N. H., XXXVI, 1917, p. 265.

Pyrilia haematotis coccinicollaris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 206.

Range: Eastern Panama.

1: Panama.

***Eucinetus pulchra** (*Berlepsch*). BEAUTIFUL PARROT.

Pionopsitta pulchra BERLEPSCH, Ornith. Monatsber., V, 1897, p. 175 (San Jose, Rio Dagua, west Colombia); HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1202; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 93, No. 876.

Eucinetus pulchra CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 264.

Range: West Colombia and N. W. Ecuador.

1: Ecuador (near Huigra).

***Eucinetus barrabandi** (*Kuhl.*). BARRABAND'S PARROT.

Psittacus barrabandi KUHL, Consp. Psitt., 1820, p. 61 ("Brasilia"); BREHM., Mon. Papag., 1842, pl. 53.

Pionopsittacus barrabandi SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 346; GOELDI, Alb. de Aves Amazon, pt. 3, 1905, pl. 38, Fig. 3.

Eucinetus barrabandi REICHEN., Vogelbild, 1878–83, pl. XXIV, Fig. 4.

La Caica barraband Levaill, Hist. Perr., 1805, II, p. 102, pl. 134.

Range: Northwest Brazil, Ecuador and east Peru.

1: Peru (Yurimaguas).

Genus **PYRILIA** Bonaparte.

Pyrilia Bonaparte, Naumania, 1856; Consp. Psitt. Gen. 20 (Type *Psittacula pyrilia* Bonap.).

Pyrilia pyrilia (*Bonap.*). BONAPARTE'S PARROT.

Psittacula pyrilia BONAPARTE, Compt. Rend., XXXVII, 1853, p. 807, footnote (Colombia).

Pyrilia typica SOUANCE, Icon. Perr., 1857, pl. XXVI.

Pionopsittacus pyrilia SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 347.

Pyrilia pyrilia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 203, in key and footnote; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 265.

Range: Colombia and Venezuela.

Genus **GYPOPSITTA** Bonaparte.

Gypopsitta Bonaparte, Naumannia, I, 1856, Consp. Psitt. Gen. 25 (Type *Psittacus vulturinus* Kuhl).

Gypopsitta vulturina (*Kuhl.*). VULTURINE PARROT.

Psittacus vulturinus KUHL, Consp. Psitt., 1820, p. 62 ("Brasilia").

Eucinetus vulturinus REICH., Vogelbild, 1878–83, pl. XXIV, Fig. 7.

Gypopsittacus vulturinus SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 349; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 15, Fig. 11.

Range: Central and northeastern Brazil.

Genus **UROCHROMA** Bonaparte.

Touit Gray, List Gen. and Subgen. Bds., 1855, p. 89 (Type *Psittacus hueti* Temm.) not accepted.

Urochroma Bonap. Naumannia, 1856, Consp. Psitt. Genus 30. (Type *Psittacus hueti* Temminck).

Urochroma stictoptera *Sclater*. SPOTTED-WINGED PARROTLET.

Urochroma stictoptera SCLATER, Proc. Zool. Soc. Lond., 1864, p. 112, pl. 11 (interior of Colombia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 357; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Central Colombia.

Urochroma emmae *Berlepsch*. EMMA'S PARROTLET.

Urochroma emmae BERLEPSCH, Journ. fur Ornith., 1889, p. 202 (descr. nulla); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 357 (Bogota, Colombia); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Central Colombia.

Urochroma dilectissima *Sclater and Salvin*. BLUE-FRONTED PARROTLET.

Urochroma dilectissima SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1870 (pub. April, 1871), p. 788, pl. 47 (South of Merida, Venezuela); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 356; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 199 (cut, pl. XIV, Fig. 1.)

Range: Eastern Panama and Merida, Venezuela.

***Urochroma costaricensis** *Cory*. RED-FRONTED PARROTLET. Plate I.

Urochroma costaricensis CORY, Field Mus. Nat. Hist. Pub., No. 167, Orn. Ser., I, 1913, p. 283 (Vicinity of Puerto Limon, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 200.

Range: Eastern Costa Rica.

4: Costa Rica, near Limon (including the type).

Urochroma hueti (*Temm.*). HUET'S PARROTLET.

Psittacus huetii TEMMINCK, Pl. Col., liv. 83, 1830, pl. 491 and text (probably in Peru).

Psittacula hueti BOURJ., Perr., 1837–38, pl. 93.

Urochroma hueti SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 355; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 7.

Urochroma huertii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Venezuela, Ecuador, and Peru, the Guianas, and Trinidad.

***Urochroma batavica** (*Bodd.*). SCOPULI'S PARROTLET.

Psittacus batavica BODDAERT, Tabl. Pl. Enl., 1783, p. 49 ("Batavia," Venezuela).
Urochroma cingulata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 351.
Urochroma batavica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.
Eucenetus cingulatus REICHENOW, Vogelbild, 1881, pl. 24, Fig. 2.
Touit batavica CHUBB, Bds. Brit. Guiana, I, 1916, p. 336.

Range: Venezuela, British Guiana and Trinidad.

1: British Guiana.

Urochroma wiedi *Allen*. WIED'S BLACK-EARED PARROTLET.

Urochroma wiedi ALLEN, Bull. Am. Mus. N. H., II, 1889, p. 264 (southeastern Brazil); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 352; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key.

Range: Southeastern Brazil.

Urochroma purpurata (*Gmel.*). PURPLE GUIANA PARROTLET.

[*Psittacus*] *purpuratus* GMELIN, Syst. Nat., I, 1788, p. 350 (Cayenne).
Urochroma purpurata SOUANCE, Icon. Perr., 1857, pl. 27; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 353; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 6; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 198, in key.
Touit purpurata CHUBB, Bds. Brit. Guiana, I, 1916, p. 337.

Range: Guianas and northeastern Brazil.

Urochroma surda (*Kuhl.*). GOLDEN-TAILED PARROTLET.

Psittacus surdus KUHL. Consp. Psitt., 1820, p. 59 (Brazil); HAHN. Orn. Atlas Papag., 1835, p. 55, pl. 40.
Urochroma surda SOUANCE, Icon. Perr., 1857, pl. 38; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 354; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 198, in key.

Range: Southeastern Brazil.

Genus **PIONITES** Heine.

Pionites Heine, Nom. Mus. Heine Orn., 1890, p. 231 (Type *Psittacus melanocephalus* Linn.).

***Pionites melanocephala** (*Linn.*). BLACKED-HEADED CAIQUE.

Psittacus melanocephalus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 149 ("Mexico," Cayenne designated by Brabourne and Chubb).
Caica melanocephala SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 358.
Pionites melanocephalus GOELDI, Alb. de Aves Amazon, 1902, pt. 2, pl. 15, Fig. 7.
Le Parroquit mai pouri Levaill, Perr., 1805, pls. 119–120.

Range: Venezuela, Guiana, and northern Brazil.

2: Venezuela (Guanaco) 1; and Dutch Guiana (Paramaribo) 1.

Pionites melanocephala pallida (*Berlepsch*). PALLID CAIQUE.

Caica melanocephala pallida BERLEPSCH, Journ. fur Ornith., 1889, p. 317 (Yurimaguas, Peru).

Caica pallida Salvadori, Cat. Bds. Brit. Mus., XX, 1891, p. 360.

Pionites melanocephala pallidus CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 265 (crit.).

Range: East Peru, east Ecuador and southeast Colombia.

Pionites leucogaster (*Kuhl.*). WHITE-BELLIED CAIQUE.

Psittacus leucogaster KUHL. Consp. Psitt., 1820, p. 70 ("Brasilia"); BOURJ. Perr., 1837–38, pl. 58.

Psittacus bodiceps LEAR, Parr., 1832, pl. 1.

Caica leucogaster SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 360.

Pionites leucogaster GOELDI, Alb. de Aves Amazon, 1902, pt. 2, pl. 15, Fig. 6.

Range: Northeastern Brazil, Lower Amazon region and Para.

Pionites xanthomeria *Sclater*. AMAZONIAN CAIQUE.

Caica xanthomeria SCLATER, Proc. Zool. Soc. Lond., 1857, p. 266 (Rio Javarri, Peru).

Caica xanthomeros TACZANOWSKI, Orn. Perr., 1886, III, p. 226, Tabl. 100; SCLATER, Proc. Zool. Soc. Lond., 1879, p. 301, pl. XXVIII, Reichenow, Vogelbild, pl. X, Fig. 3.

Caica xanthomera SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 361.

Range: Eastern Peru.

Order CORACIIFORMES.

Suborder STEATORNITHES.

Family STEATORNITHIDÆ. The Oil Birds.

Genus **STEATORNIS** Humbold.

Steatornis Humbold, Recueil Obs. de Zool. et d'Anat. Comp., II, 1817, p. 141 (Type *Steatornis caripensis* Humbold).

***Steatornis caripensis** *Humbold.* Oil Bird.

Steatornis caripensis Humbold, Recueil Obs. de Zool. et d'Anat. Comp., II, 1817, p. 141 (Caripe, Venezuela); Hartert, Cat. Bds. Brit. Mus., XVI, 1892, p. 653; Chubb, Bds. Brit. Guiana, I, 1916, p. 342.

Range: Colombia, Venezuela, Trinidad Island, Guiana and east Ecuador.

10: Trinidad 8; and Colombia 2.

Steatornis caripensis peruvianus[a] *Tacz.* Peruvian Oil Bird.

Steatornis caripensis var. *peruviana* Taczanowski, Orn. Perou, I, 1884, p. 199 (Tingo Maria, Dep. Huanaco).

[*Steatornis*] *peruvianus* Brabourne and Chubb, Bds. S. Am., I, 1912, p. 94, No. 894.

Range: Peru.

Suborder ALCYONES.

Family ALCEDINIDÆ. Kingfishers.

Genus **STREPTOCERYLE** Bonaparte.[b]

Streptoceryle Bonaparte, Ateneo Italiano, II, 1854, p. 320 (Type *Alcedo torquata* Linn.).

***Streptoceryle torquata torquata** (*Linn.*). Great-ringed Kingfisher.

Alcedo torquata Linn., Syst. Nat., ed. 12, 1766, p. 180 (Mexico).

[a] *Steatornis caripensis peruvianus* Tacz.: Similar to *S. c. caripensis* Humbold in coloration, but size smaller and the tail more tapering.

[b] Mr. W. De W. Miller considers *Streptoceryle* Bonaporte, 1854, to be inseparable from *Megaceryle* Kaup, 1848 (*cf.* Class. Kingfishers, Bull. Am. Mus., N. H., XXXI, 1912, p. 265).

Ceryle torquata SHARPE, Mon. Alcedinidae, 1868–71, p. 73, pl. 22; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 121; GOELDI, Alb. de Aves Amazon, pt. 1, 1900, pl. 1, Fig. 9.

Streptoceryle torquata torquata RIDGWAY, Bull. U. S. Nat. Mus., No, 50. VI, 1914, p. 409.

Megaceryle torquata torquata CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 266.

Range: Northern Mexico, south through Central America and greater portion of South America (except Bolivia and Peru) to Paraguay and Argentina.

†23: Mexico 6; Nicaragua 1; Costa Rica 2; Colombia 4; Venezuela 4; British Guiana 1; Brazil (Amazonas) 1; Argentina 1; and Dutch Guiana 1.

***Streptoceryle torquata stictipennis** (*Lawrence*). ANTILLAN RINGED KINGFISHER.

Ceryle stictipennis LAWRENCE, Proc. U. S. Nat. Mus., VIII, 1885, p. 623 (Guadeloupe I., West Indies); CORY, Auk, 1886, p. 367; *Id.*, Bds. West Indies, 1889, p. 162.

Streptoceryle torquata stictipennis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 414.

Range: Islands of Guadeloupe, Dominica and Martinique, Lesser Antilles.

1: Martinique I., West Indies.

***Streptoceryle torquata stillata** (*Meyen*). SOUTHERN RINGED KINGFISHER.

Alcedo stillata MEYEN, Nova. Acta Leop. Carol., XVI, Suppl. 1834, p. 93, pl. 14 (Rio Claro, Prov. San Fernandino, Chile); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 123.

Streptoceryle torquata stillata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 408, in key.

Range: Bolivia, Peru and Patagonia to Tierra del Fuego.

2: Peru.

***Streptoceryle alcyon alcyon** (*Linn.*). BELTED KINGFISHER.

Alcedo alcyon LINN., Syst. Nat., I, ed. 10, 1758, p. 115 (North America).

Ceryle alcyon Bd. BWR. and RIDGWAY, Hist. N. A. Bds., II, 1874, p. 392, part, pl. 45, Fig. 6; CORY, Bds. Bahama Islands, 1880, p. 115; *Id.*, Auk, 1886, p. 368; *Id.*, 1887, p. 181; *Id.*, Bds. West Indies, 1889, p. 163; SHARPE, Mon. Alcedinidae, 1868–71, p. 79, pl. 23; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 125.

Streptoceryle alcyon alcyon RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 415.

Range: Central and eastern North America, from the base of the Rocky Mountains, the Mackenzie, the West Indies, eastern Mexico and Central America to Panama and north Colombia (Venezuela?).

†42: North America: Prince Edward I. 1; Maine 1; Connecticut 1; New York 4; Illinois 2; Indiana 2; Wisconsin 9; and Florida 12.

Middle America: Yucatan 1; and Guatemala 1.

Islands of West Indies and Caribbean Sea: Bahamas (Eleuthera 1; and Maraguana 2); Jamaica 1; St. Kitts 2; Guadeloupe 1; and St. Andrews Island 1.

***Streptoceryle alcyon caurina** (*Grinnel*). WESTERN BELTED KINGFISHER.

Ceryle alcyon caurina GRINNEL, Univ. Calif. Pub. Zool., V, 1910, p. 388, Fig. 4 (Montague Island, Prince William Sound, Alaska).

Streptoceryle alcyon caurina RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 420.

Range: Western North America, east to and including Rocky Mountains, north to northern Alaska and south to Lower California and western Mexico.

2: California.

Genus **CHLOROCERYLE** Kaup.

Chloroceryle KAUP., Verh. Natur. Vereins. Hessen, II, 1848, p. 68 (Type *Alcedo superciliosa* Linn.).

***Chloroceryle amazona** (*Latham*). AMAZON KINGFISHER.

Alcedo amazona LATH., Index Orn., I, 1790, p. 257 (Cayenne).

Ceryle amazona SHARPE, Mon. Alcedinidae, 1868–71, p. 83, pl. 24; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 129; GOELDI, Alb. de Aves Amazon, pt. 1, 1900, pl. 1, Fig. 10; GRANT, Ibis, 1911, p. 323 (Paraguay).

Chloroceryle amazona RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 424.

Range: Practically whole of South America and north to eastern Mexico.

22: Middle America: Mexico 1; Guatemala 1; Costa Rica 1; and Veragua 1; and Panama 2. South America: Colombia 2; Venezuela 6; British Guiana 3; Brazil (Bahia and Rio Branco) 2; and Peru 5.

***Chloroceryle americana americana** (*Gmel.*). GREEN KINGFISHER.

Alcedo americana GMELIN, Syst. Nat., I, 1788, p. 451 (Cayenne).

Ceryle americana SHARPE, Mon. Alcedinidae, 1870, p. 89, part, pl. 26; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 131, part.

Chloroceryle americana americana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 423, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 266.

Range: Guiana, Trinidad and Tobago, northern Brazil, Venezuela, Colombia and East Peru?

14: British Guiana 2; Dutch Guiana 1; Brazil 4 (Rio Branco, Conceicao, Amazonas, Quixada and Ceara); Tobago Island 3; Colombia 2 and Venezuela 2.[a]

***Chloroceryle americana isthmica** (*Goldman*). ISTHMIAN GREEN KINGFISHER.

Ceryle americana isthmica GOLDMAN, Smith. Misc. Coll., 56, 1911, p. 1 (Rio Indio, Canal Zone, Panama).

Chloroceryle americana isthmica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 428.

Range: Southern Mexico (Chiapas) to eastern Panama.

†12: Guatemala 5; Nicaragua 3; Costa Rica 3; and Panama 1.

***Chloroceryle americana septentrionalis** (*Sharpe*). TEXAN GREEN KINGFISHER.

Ceryle americana B. septentrionalis SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, pp. VIII and 134 (Teapa, Tabasco, Mexico).[b]

Chloroceryle americana septentrionalis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 431.

Range: Mexico (except state of Chiapas) and adjacent border of United States (Texas and Arizona).

8: Mexico (Tamaulipas, Yucatan and Vera Cruz).

***Chloroceryle americana cabanisi** (*Tschudi*). CABANIS'S GREEN KINGFISHER.

Alcedo cabanisi TSCHUDI, Faun. Peruan, 1846, p. 253 (Peru).

Ceryle cabanisi SHARPE, Mon. Alcedinidae, 1868, p. 87, part, pl. 25; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 134, part.

Range: Peru.

3: Peru.

Chloroceryle americana viridis[c] (*Vieillot*). SOUTHERN GREEN KINGFISHER.

Alcedo viridis VIEILLOT, Nouv. Dict. d'Hist. Nat., XIX, 1818, p. 413, based on Martin-piscador verde oscuro Azara Apunt. Parag., III, p. 389 (Los Pajaros del Paraguay).

Chloroceryle americana viridis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 423, (footnote).

Ceryle americana CHUBB, Ibis, 1910, p. 265 (Paraguay).

Range: Paraguay and southern Brazil.

[a] Specimens from Venezuela and Colombia differ somewhat from birds from Guiana and may prove separable subspecifically, but the material before me is not sufficient to decide this question. The single specimen from Ceara, Brazil, is apparently intermediate between *americana* and *viridis*.

[b] See Ridgway, Bull. U. S. Nat. Mus. No. 50, VI, 1914, p. 430, footnote.

[c] Decidedly larger and markings averaging somewhat heavier.

***Chloroceryle inda** (*Linn.*). GREEN AND RUFOUS KINGFISHER.

Alcedo indo LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 179 ("India occidentali").[a]
Ceryle inda SHARPE, Mon. Alcedinidae, I, 1869, p. 91, pl. 27; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 137; STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 197 (Guinepa R., Venezuela).
Chloroceryle inda RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 434.

Range: Eastern Nicaragua to Peru, Brazil and Guiana.

6: Colombia 1; British Guiana 2; Dutch Guiana 2; and Costa Rica (Limon) 1.

***Chloroceryle aenea aenea** (*Pallas*). LEAST GREEN KINGFISHER.

Alcedo aenea PALLAS in Vroeg's Cat. Ois. Adumbr., 1764, I, No. 54 (Surinam).
Ceryle superciliosa SHARPE, Mon. Alcedinidae, I, 1868–71, p. 93, pl. 28; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 138, part; GOELDI, Alb. de Aves Amazon, I, 1900, pl. 1, Fig. 13.
Chloroceryle aenea aenea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 437.

Range: Costa Rica to southern Brazil, Bolivia, etc., Guiana and Trinidad.

4: Panama; Colombia; Venezuela; and British Guiana.

***Chloroceryle aenea stictoptera** (*Ridgway*). SCHOTT'S LEAST GREEN KINGFISHER.

Ceryle superciliosa stictoptera RIDGWAY, Proc. Biol. Soc. Wash., II, 1885, p. 95 (Sisal, Yucatan).
Chloroceryle aenea stictoptera RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 440.
Ceryle stictoptera (subsp. a.) SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 139, pl. V, Fig. 2.

Range: Nicaragua to Vera Cruz, Mexico, Cozumel Island.

5: Mexico (Yucatan) 2; Guatemala 1; and Nicaragua 2.

Chloroceryle aenea aequatorialis (*Sharpe*). EQUATORIAL LEAST GREEN KINGFISHER.

Ceryle aequatorialis SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 140, pl. V, Fig. 1 (Santa Rita, Ecuador).

Range: Ecuador.

[a] Cayenne is substituted by Brabourne and Chubb, Bds. S. A., I, 1912, p. 95, No. 901.

Suborder TODI.

Family TODIDÆ. Todys.

Genus TODUS Brisson.

Todus Brisson, Orn., IV, 1760, p. 518 (Type *Alcedo todus* Linn.).

***Todus multicolor** *Gould*. CUBAN TODDY.

Todus multicolor GOULD, Icones Avium, 1837, p. 2 (no locality given=Cuba); D'ORBIGNY in La Sagras Nat. Hist. Cuba Ois., 1839, p. 132, pl. 22; CORY, Auk, 1886, p. 372; *Id.*, Bds. West Indies, 1889, p. 167; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 443; TODD, Ann. Carnegie Mus., X, 1916, P. 238.

Todus viridis multicolor WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 6.

Range: Western Cuba and Isle of Pines.

7: Cuba.

Todus multicolor exilis[a] *Barbour and Brooks*. EASTERN CUBAN TODY.

Todus multicolor exilis BARBOUR and BROOKS, Proc. N. E. Zool. Club, VI, 1917, p. 51 (Preston, Nipa Bay, Province of Oriente, eastern Cuba).

Range: Eastern Cuba.

Todus pulcherrimus *Sharpe*. SHARPE'S TODY.

Todus pulcherrimus SHARPE, Ibis, 1874, p. 353, pl. 13, Fig. 3 (Jamaica?); *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 336; CORY, Auk, 1886, p. 371; *Id.*, Bds. West Indies, 1889, p. 166; SCOTT, Auk, 1892, p. 275; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 445.

Range: Unknown; Jamaica[b]?

***Todus angustirostris** *Lafresnaye*. NARROW-BILLED TODY.

Todus angustirostris LAFRESNAYE, Rev. et Mag. de Zool., III, 1851, p. 478 (Santo Domingo); CORY, Bds. Haiti and San Domingo, 1885, p. 107, pl. 23, Fig. 4; *Id.*, Bds. West Indies, 1889, p. 164; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 445.

Range: San Domingo, Island of Haiti.

†106: Haiti and San Domingo.

[a] *Todus m. exilis* BARBOUR & BROOKS: Differs from *T. m. multicolor* GOULD in having lighter blue on sides of neck and more restricted and duller yellow patch at base of forehead.

[b] Ridgway (l.c.) suggests *T. pulcherrimus* SHARPE may represent an extreme variation of plumage of *T. subulatus* GRAY from Haiti, and this may be the correct solution of a puzzling problem, but I have examined the type of *T. pulcherrimus* in the British Museum and while it approaches nearest to *T. subulatus*, it can be distinguished at a glance from any specimen of that species seen by me.

***Todus subulatus** *Gray*. HAITIAN TODY.

Todus subulatus GRAY, Gen. Bds., I, 1847, pl. 22 (Santo Domingo[a]); SHARPE, Ibis, 1874, p. 351, pl. 13, Figs. 1–2; CORY, Bds. Haiti and San Domingo, 1885, p. 105, pl. 23, Fig. 3; *Id.*, Bds. West Indies, 1889, p. 165; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 334, part; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 447.

Todus viridis subulatus WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 5.

Range: Haiti and San Domingo, Island of Haiti.

†230: Haiti and San Domingo.

***Todus todus** (*Linn*). JAMAICAN TODY.

Alcedo todus LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 116.

Todus viridis GOSSE, Bds. Jamaica, 1847, p. 72; *Id.*, Illust. Bds. Jamaica, 1849, pl. 14; CORY, Auk, 1886, p. 369; *Id.*, Bds. West Indies, 1889, p. 369; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 334; SCOTT, Auk, 1892, p. 274.

Todus todus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 448.

Todus viridis viridis WYSTMAN, Gen. Avium, pt. 2, 1905, Figs. 1–2–3 and 4.

Range: Island of Jamaica, West Indies.

9: Jamaica.

***Todus mexicanus** *Lesson*. PORTO RICAN TODY.

Todus mexicanus LESSON, Ann. Sci. Nat., 2 Ser., IX, 1838, p. 167 (Mexico — error = Porto Rico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 449.

Todus hypochondriacus CORY, Auk, 1886, p. 371; *Id.*, West Indies, 1889, p. 166; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 336.

Todus viridis hypochondriacus WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 7.

Range: Island of Porto Rico, West Indies.

†15: Porto Rico.

Suborder MOMOTI.

Family MOMOTIDÆ. Motmots.

Genus **UROSPATHA** Salvadori.

Urospatha Salvadori, Atti. Roy. Accad. Sci. Torino, IV, 1868, p. 179 (Type *Prionites martii* Spix).

***Urospatha martii martii** (*Spix*). RUFOUS MOTMOT.

Prionites martii SPIX, Av. Bras., I, 1825, p. 64, pl. 60 (near Para, Brazil).

Urospatha martii SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 314, part.

[a] Type locality by designation.

Urospatha martii martii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 468, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 267 (Florencia, Colombia).

Range: Northern Brazil (Upper Amazon Valley); eastern Colombia.

2: "Brazil."

***Urospatha martii semirufa** (*Sclater*). GREATER RUFOUS MOTMOT.

Momotus semirufus SCLATER, Rev. et Mag. de Zool., V, 1853, p. 489 (Santa Marta, Colombia).

Urospatha martii SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 314, part.

Urospatha martii semirufa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 468; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 267 (Crit.).

Range: Eastern Nicaragua to northern Ecuador.

2: Panama (Chiriqui) 1; w. Ecuador (San Jose) 1.

***Urospatha martii olivacea** subsp. nov.[a] PERUVIAN RUFOUS MOTMOT.

Range: Moyobamba and Rioja region, Peru.

2: Peru (Moyobamba, type; and Rioja).

Genus **ELECTRON** Gistel.

Electron Gistel, Naturgesch des Thier. für höhere Schulen, 1848, p. VIII (New name to replace "*Crypticus*," "Bonap. Vogel a Brazil," i.e., Swainson preoccupied) (Type *Momotus platyrhynchus* Leadbeater).

Electron platyrhynchus platyrhynchus (*Leadbeater*). BROAD-BELLIED MOTMOT.

Momotus platyrhynchus LEADBEATER, Trans. Linn. Soc., XVI, 1829, pt. 1, p. 92 ("Brazil" = W. Ecuador).[b]

Prionirhynchus platyrhynchus SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 315, part.

Prionornis platyrhynchus BRABOURNE and CHUBB, Bds. S. A., I, p. 96.

Electron platyrhynchus platyrhynchus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 471, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 268 (crit.).

Range: Northern Peru?; western Ecuador and northward to the Atrate Valley, Colombia.[c]

[a] Type from Moyobamba, Peru. Adult female, No. 44646, Field Museum of Natural History. Collected by W. H. Osgood and M. P. Anderson, July 23, 1912.

Similar to *U. m. semirufa* (SCLATER) from Colombia, but differs in having the upper parts (including upper tail coverts), flanks and under tail coverts more yellowish olive green. Wing, 152; tail, 254; bill, 37; tarsus, 25 mm.

[b] *Cf.* Hartert, Novit. Zool., 1898, p. 497; Hellmayr, Nov. Zool., 1907, p. 404.

[c] *Cf.* Chapman, (l.c.)

Electron platyrhynchus pyrrholaemus[a] (*Berlepsch and Stolzman*). RED-THROATED BROAD-BILLED MOTMOT.

Prionirhynchus platyrhynchus pyrrholaemus BERLEPSCH and STOLZMAN, Proc. Zool. Soc. Lond., 1902, pt. 2, p. 35 (La Merced, central Peru).

Electron platyrhynchus pyrrholaemus CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 269.

Range: Central and eastern Peru, western Brazil, and Colombia (Florencia).

Electron platyrhynchus medianum *Todd.*[b] BOLIVIAN BROAD-BILLED MOTMOT.

Blectron platyrhynchus medianum TODD, Proc. Biol. Soc. Wash., 1913, p. 174 (Rio Turutu, Prov. del Sara, Bolivia).

Range: Bolivia.

***Electron platyrhynchus minor** (*Hartert*). LESSER BROAD-BILLED MOTMOT.

Prionirhynchus platyrhynchus minor HARTERT, Nov. Zool., V, 1898, p. 498 (Panama).

Electron platyrhynchus minor RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 472; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 269 (crit.).

Range: Costa Rica to Panama (Canal zone) and lower Caura River, Colombia.[c]

3: Costa Rica; 2; and Panama 1.

Electron platyrhynchus suboles *Nelson.* DARIEN MOTMOT.

Electron platyrhynchus suboles NELSON, Smith. Misc. Coll., Vol. 60, 1912, p. 5 (Cana, Darien, Paama, 2,000 ft.); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 474.

Range: Eastern Panama.

Electron carinatus carinatus (*Du Bus*). KEEL-BILLED MOTMOT.

Prionites carinatus DU BUS., Bull. Acad. Roy. Belg., XIV, 1847, p. 108 (Guatemala).

Prionirhynchus carinatus SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 316.

Electron carinatus carinatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 474.

Range: Southeastern Mexico to Honduras.

[a] *Electron platyrhynchus pyrrholaemus* (BERLEPSCH & STOLZMAN): Central rectrices non-spatulate; bill smaller.

[b] *Electron platyrhynchus medianum* (TODD): Similar to *E. p. pyrrholaemus* (BERL. & STOLZ.), but chin spot more bluish; posterior under parts and remiges somewhat less suffused with bluish; chestnut rufous areas slightly darker and duller.

[c] *Cf.* Chapman (l.c.).

Electron carinatus viridis *Ridgway*. COSTA RICA KEEL-BILLED MOTMOT.

Electron carinatus viridis RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 89 (La Vijagua, northwestern Costa Rica).

Range: Northwestern Costa Rica.

Genus **EUMOMOTA** Sclater.

Eumomota Sclater, Proc. Zool. Soc. Lond., 1857, p. 257 (Type *Prionites superciliosus* Sandbach).

***Eumomota superciliosa superciliosa** (*Sandbach*). TURQUOISE-BROWED MOTMOT.

P[yionites] superciliosus SANDBACH, Athenaeuim, 1837, No. 517, p. 698 (Mexico).
Eumomota superciliaris SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 317, part.
Eumomota superciliosa superciliosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 478.

Range: Yucatan and Cozumel Island, Campeche and Tobasco.

2: Yucatan.

Eumomota superciliosa bipartita *Ridgway*. GREEN-BREASTED TURQUOISE-BROWED MOTMOT.

Eumomota superciliaris bipartitus RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 90 (Cacoprieto, Oaxaca, Mexico).
Eumomota superciliosa bipartitus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 480.

Range: Southern Mexico, Guatemala and Honduras.

5: Guatemala.

***Eumomota superciliosa australis** *Bangs*. SOUTHERN TUROUOISE-BROWED MOTMOT.

Eumomota superciliosa australis BANGS, Proc. Biol. Soc. Wash., XIX, 1906, p. 104 (Bebedero, northwestern Costa Rica).
Eumomota superciliosa australis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 481.

Range: Northwestern Costa Rica, western Nicaragua and Salvador

6: Nicaragua 5; and Salvador 1.

Genus **MOMOTUS** Brisson.

Momotus Brisson, Orn. IV, 1760, p. 465 (Type *Ramphastos momota* Linn.).

***Momotus momota momota** (*Linn.*). COMMON MOTMOT.

Ramphastos momota LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 152 (Cayenne).
Momotus momota SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 319; GOELDI, Alb. de Aves Amazon, pt. 3, 1905–06, pl. 28, Fig. 1.

Range: Guiana and north Brazil.

3: British Guiana.

Momotus momota cametensis *Snethlage*.[a] SNETHLAGE'S MOTMOT.

Momotus momota cametensis SNETHLAGE, Orn. Monatsb., XX, 1912, p. 15 (Cameta, on the R. Tocantins); *Id.*, Boll. Mus. Goeldi, VIII, 1914, p. 172.

Range: Rio Tocantins region, Brazil.

Momotus momota parensis *Sharpe*. PARA MOTMOT.

Momotus parensis SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 320 (Para).

Momotus momota parensis SNETHLAGE, Boll. Mus. Goeldi, VIII, 1914, p. 172; HELLMAYR, Novit. Zool., XII, 1905, p. 296.

Range: Northeast Brazil.

***Momotus momota ignobilis** (*Berlepsch*). OBSCURE MOTMOT.

Momotus brasiliensis ignobilis BERLEPSCH, Journ. für Ornith., 1889, p. 307 (Shaniesi, Yurimaguas, Peru).

Momotus bartletti SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 320, pl. IX.

Momotus momota ignobilis CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 271.

Range: East Peru, east Ecuador and Colombia.

1: "Colombia."

Momotus momota nattereri (*Sclater*). NATTERER'S MOTMOT.

Momotus nattereri SCLATER, Proc. Zool. Soc. Lond., 1857, p. 251 (Yungas, Bolivia); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 322.

Momotus momotus nattereri HELLMAYR, Nov. Zool., XIV, 1907, p. 28; *Id.*, XVIII, 1910, p. 388.

Range: Bolivia, N. Argentine, west Brazil and eastern Peru.

Momotus venezuelae *Sharpe*. VENEZUELAN MOTMOT.

Momotus venezuelae SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 321 (Puerto Cabello, Venezuela).

Range: Northern Venezuela.

***Momotus venezuelae osgoodi**[b] (*Cory*). OSGOOD'S MOTMOT.

Momotus osgoodi CORY, Field Mus. Pub., No. 167, Orn. Ser., Vol. I, 1913, p. 285 (El Guayabel, 10 miles east of Cucuta, eastern Colombia).

Range: Interior of western Venezuela and extreme eastern Colombia.

7: Colombia (near Cucuta, including the type) and western Venezuela (Orope).

[a] Differs from *M. m. momota* (LINN.) by the reddish chestnut underparts; differs from *M. m. parensis* SHARPE by the chestnut red band on the nape extending to the middle of the black ear spot.

[b] This may prove inseparable from *M. v. venezuelae* SHARPE. I have not seen specimens from Puerto Cabello, Venezuela.

***Momotus subrufescens subrufescens** *Sclater.* COLOMBIAN MOTMOT.

Momotus subrufescens SCLATER, Rev. et Mag. de Zool., V, 1853, p. 489 (Santa Marta, Colombia); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 321, part, pl. 10, Fig. 1.

Momotus subrufescens subrufescens CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 271.

Range: Colombia.

1: "Colombia."

Momotus subrufescens conexus (*Thayer and Bangs*). SMALL-BILLED MOTMOT.

Momotus conexus THAYER and BANGS, Bull. Mus. Comp. Zool., 1906, p. 215 (Sabana de Panama).

Momotus subrufescens conexus RIDGWAY, Bull. U. S. Nat. Mus., No. 50. VI, 1914, p. 461.

Range: Eastern Panama to south central Colombia.

Momotus subrufescens reconditus (*Nelson*). CHESTNUT-BELLIED MOTMOT.

Momotus conexus reconditus NELSON, Smith. Misc. Coll., Vol. 60, 1912, p. 27 (Marragante, east Panama).

Momotus subrufescens reconditus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 463; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 271.

Range: Eastern Panama and northwestern Colombia.

Momotus microstephanus *Slater.* SCLATER'S MOTMOT.

Momotus microstephanus SCLATER, Proc. Zool. Soc. Lond., 1855, p. 135 (Bogota); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 322, pl. X, Fig. 2.

Range: Colombia and northern Ecuador.

1: Colombia (Bogota).

Momotus argenticinctus *Sharpe.* SILVER-BANDED MOTMOT.

Momotus argenticinctus SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 323 (Santa Rita Mountains and Babahoyo, Eucador).

Range: Santa Rita Mountains, and Babahoyo, Ecuador.

***Momotus aequatorialis aequatorialis** *Gould.* EQUATORIAL MOTMOT.

Momotus aequatorialis GOULD, Proc. Zool. Soc. Lond., 1857, p. 223 (Archidona, Ecuador); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 323, pl. XI.

Momotus aequatorialis aequatorialis CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 272.

Range: Ecuador and Colombia.

2: Colombia (Antioqua).

Momotus aequatorialis chlorolaemus *Berl.* and *Stolz.* GREEN-THROATED MOTMOT.

Momotus aequatorialis chlorolaemus BERLEPSCH and STOLZMAN, Proc. Zool. Soc. Lond., 1902, p. 35 (Ocobamba, Peru); MENEGAUX, Bull. Nat. d'Hist. Nat. Paris, 1910, No. 5, p. 360 (Pina, Peru).

Range: Central and east Peru.

***Momotus lessonii lessonii** *Lesson.* LESSON'S MOTMOT.

Momotus lessoni LESSON, Rev. Zool., V, 1842, p. 174 (Realejo, Nicaragua); DES MURS, Icon. Orn., II, 1848, pl. 62.

Momotus lessoni SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 324.

Momotus lessonii lessonii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 457.

Range: Southern Mexico (Chiapas) to western Panama; northwestern Colombia?

†29: Guatemala; Nicaragua; and Costa Rica.

***Momotus lessonii goldmani** *Nelson.* GOLDMAN'S MOTMOT.

Momotus lessoni goldmani NELSON, Auk, 1900, p. 256 (Motzorongo, Vera Cruz, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 460.

Range: Southeastern Mexico.

1: Mexico (Vera Cruz).

***Momotus lessonii exiquus** *Ridgway.* YUCATAN MOTMOT.

Momotus lessonii exiquus RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 89 (Temax, Yucatan); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 460.

Range: Yucatan and Campeche.

2: Yucatan.

***Momotus bahamensis** *Swainson.* SWAINSON'S MOTMOT.

Prionites bahamensis SWAINSON, Anim. in Menag., 1837, p. 332 (Trinidad).

Momotus swainsoni SHARPE, Cat. Bds. Brit. Mus. XVII, 1892, p. 326.

Momotus bahamensis bahamensis HELLMAYR, Novit, Zool., XIII, 1906, p. 40.

Range: Trinidad and Tobago.

†21: Tobago 20; and Trinidad 1.

***Momotus caeruliceps** (*Gould*). BLUE-CROWNED MOTMOT.

Prionites caeruliceps GOULD, Proc. Zool. Soc. Lond., 1836, p. 18 (Tamaulipas, Mexico).

Momotus caeruleiceps SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 327.

Momotus caeruliceps RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 455.

Range: Northern Mexico.

4: Mexico (Tampico and Potosi).

Ceryle torquata SHARPE, Mon. Alcedinidae, 1868–71, p. 73, pl. 22; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 121; GOELDI, Alb. de Aves Amazon, pt. 1, 1900, pl. 1, Fig. 9.

Streptoceryle torquata torquata RIDGWAY, Bull. U. S. Nat. Mus., No, 50. VI, 1914, p. 409.

Megaceryle torquata torquata CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 266.

Range: Northern Mexico, south through Central America and greater portion of South America (except Bolivia and Peru) to Paraguay and Argentina.

†23: Mexico 6; Nicaragua 1; Costa Rica 2; Colombia 4; Venezuela 4; British Guiana 1; Brazil (Amazonas) 1; Argentina 1; and Dutch Guiana 1.

***Streptoceryle torquata stictipennis** (*Lawrence*). ANTILLAN RINGED KINGFISHER.

Ceryle stictipennis LAWRENCE, Proc. U. S. Nat. Mus., VIII, 1885, p. 623 (Guadeloupe I., West Indies); CORY, Auk, 1886, p. 367; *Id.*, Bds. West Indies, 1889, p. 162.

Streptoceryle torquata stictipennis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 414.

Range: Islands of Guadeloupe, Dominica and Martinique, Lesser Antilles.

1: Martinique I., West Indies.

***Streptoceryle torquata stillata** (*Meyen*). SOUTHERN RINGED KINGFISHER.

Alcedo stillata MEYEN, Nova. Acta Leop. Carol., XVI, Suppl. 1834, p. 93, pl. 14 (Rio Claro, Prov. San Fernandino, Chile); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 123.

Streptoceryle torquata stillata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 408, in key.

Range: Bolivia, Peru and Patagonia to Tierra del Fuego.

2: Peru.

***Streptoceryle alcyon alcyon** (*Linn.*). BELTED KINGFISHER.

Alcedo alcyon LINN., Syst. Nat., I, ed. 10, 1758, p. 115 (North America).

Ceryle alcyon Bd. BWR. and RIDGWAY, Hist. N. A. Bds., II, 1874, p. 392, part, pl. 45, Fig. 6; CORY, Bds. Bahama Islands, 1880, p. 115; *Id.*, Auk, 1886, p. 368; *Id.*, 1887, p. 181; *Id.*, Bds. West Indies, 1889, p. 163; SHARPE, Mon. Alcedinidae, 1868–71, p. 79, pl. 23; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 125.

Streptoceryle alcyon alcyon RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 415.

Range: Central and eastern North America, from the base of the Rocky Mountains, the Mackenzie, the West Indies, eastern Mexico and Central America to Panama and north Colombia (Venezuela?).

†42: North America: Prince Edward I. 1; Maine 1; Connecticut 1; New York 4; Illinois 2; Indiana 2; Wisconsin 9; and Florida 12.

Middle America: Yucatan 1; and Guatemala 1.

Islands of West Indies and Caribbean Sea: Bahamas (Eleuthera 1; and Maraguana 2); Jamaica 1; St. Kitts 2; Guadeloupe 1; and St. Andrews Island 1.

***Streptoceryle alcyon caurina** (*Grinnel*). WESTERN BELTED KINGFISHER.

Ceryle alcyon caurina GRINNEL, Univ. Calif. Pub. Zool., V, 1910, p. 388, Fig. 4 (Montague Island, Prince William Sound, Alaska).

Streptoceryle alcyon caurina RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 420.

Range: Western North America, east to and including Rocky Mountains, north to northern Alaska and south to Lower California and western Mexico.

2: California.

Genus CHLOROCERYLE Kaup.

Chloroceryle KAUP., Verh. Natur. Vereins. Hessen, II, 1848, p. 68 (Type *Alcedo superciliosa* Linn.).

***Chloroceryle amazona** (*Latham*). AMAZON KINGFISHER.

Alcedo amazona LATH., Index Orn., I, 1790, p. 257 (Cayenne).

Ceryle amazona SHARPE, Mon. Alcedinidae, 1868–71, p. 83, pl. 24; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 129; GOELDI, Alb. de Aves Amazon, pt. 1, 1900, pl. 1, Fig. 10; GRANT, Ibis, 1911, p. 323 (Paraguay).

Chloroceryle amazona RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 424.

Range: Practically whole of South America and north to eastern Mexico.

22: Middle America: Mexico 1; Guatemala 1; Costa Rica 1; and Veragua 1; and Panama 2. South America: Colombia 2; Venezuela 6; British Guiana 3; Brazil (Bahia and Rio Branco) 2; and Peru 5.

***Chloroceryle americana americana** (*Gmel.*). GREEN KINGFISHER.

Alcedo americana GMELIN, Syst. Nat., I, 1788, p. 451 (Cayenne).

Ceryle americana SHARPE, Mon. Alcedinidae, 1870, p. 89, part, pl. 26; *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 131, part.

Chloroceryle americana americana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 423, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 266.

Range: Guiana, Trinidad and Tobago, northern Brazil, Venezuela, Colombia and East Peru?

Nyctibius aethereus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 627; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 586, in key.

Range: Southeastern Brazil.

Nyctibius longicaudatus (*Spix*). LONG-TAILED POTOO.

Caprimulgus longicaudus SPIX, Av. Bras., II, 1825, p. 1, pl. 1 (Rio Japura, Brazil).

Nyctibius longicaudus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 626; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 586, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 272 (Novita, Colombia).

Range: Guianas to eastern Ecuador, Peru and Colombia.[a]

***Nyctibius griseus griseus** (*Gmel.*). GIANT POTOO.

[*Caprimulgus*] *griseus* GMELIN, Syst. Nat., I, 1789, p. 1029 (Cayenne).

Nyctibius jamaicensis (not *Caprimulgus jamaicensis* Gmel.) b. smaller form; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 626.

Nyctibius griseus griseus HELLMAYR, Nov. Zool., XIII, 1906, p. 37; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 586, in key.

Range: Trinidad to the Guianas and Lower Amazon Valley, Brazil.

1: British Guiana.

Nyctibius griseus cornutus[b] (*Vieillot*). PARAGUAYAN POTOO.

Caprimulgus cornutus VIEILLOT, Nouv. Dict. d'Hist. Nat., X, 1817, p. 254 (Paraguay).

Nyctibius cornutus TSCHUI, Fauna Peruana Aves, 1846, p. 123.

Nyctibius griseus cornutus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 587 (in key and footnote).

Nyctibius jamaicensis (not *Caprimulgus jamaicensis* Gmel.) GRANT, Ibis, 1911, p. 320 (Paraguay).

Range: Ecuador, Peru, Paraguay, southern Brazil, N. Argentine.

***Nyctibius griseus jamaicensis** (*Gmel.*). JAMAICAN POTOO.

Caprimulgus jamaicensis GMELIN, Syst. Nat., I, 1789, p. 1029 (Jamaica).

Nyctibius jamaicensis GOSSE, Bds. Jamaica, 1847, p. 41; *Id.*, Illustr. Bds. Jamaica, 1849, pl. 6; CORY, Auk, 1886, p. 338; *Id.*, Bds. West Indies, 1889, p. 133; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 625, part.

?*Nyctibius pallidus* GOSSE, Bds. Jamaica, 1847, p. 49 (probably albinistic specimen); *Id.*, Illustr. Bds. Jamaica, 1849, pl. 7; CORY, Auk, 1886, p. 339; SCOTT, 1892, p. 276.

Range: Island of Jamaica, Greater Antilles.

3: Jamaica.

[a] *Cf.* Chapman, (l.c.).

[b] *Nyctibius griseus cornutus* (VIEILLOT): Differs from *N. g. griseus* (GMEL.) in being "darker; the under parts more uniform in color; under tail coverts more heavily mottled and spots on inner webs of primaries less distinct (sometimes obsolete)" Ridgway, l.c.

Nyctibius griseus abbotti[a] (*Richmond*). ABBOTT'S POTOO.

Nyctibius griseus abbotti RICHMOND, Smith. Misc. Coll., 68, No. 7, 1917, p. 1 (Port de Pimente, northwestern Haiti).

Range: Island of Haiti.

Nyctibius griseus mexicanus (*Nelson*). MEXICAN POTOO.

Nyctibius jamaicensis mexicanus NELSON, Auk, 1900, p. 260 (Metlaltoyuca, Puebla, Mexico).

Nyctibius griseus mexicanus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 592.

Range: Southeastern Mexico and western Mexico in State of Sinaloa?

Nyctibius griseus costaricensis *Ridgway*. COSTA RICAN POTOO.

Nyctibius griseus costaricensis RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 91 (Sarchi, Alajuela, Costa Rica).

Range: Costa Rica.

***Nyctibius griseus panamensis** *Ridgway*. PANAMA POTOO.

Nyctibius griseus panamensis RIDGWEY, Proc. Biol. Soc. Wash., XXV, 1912, p. 91 (Nata, Cocle, Panama); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 593.

Range: Panama and Colombia (Bogota, Antioquia, etc.).

1: "Colombia."

Nyctibius maculosus[b] *Ridgway*. RIDGWAY'S POTOO.

Nyctibius maculosus RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 92 (Ambato, Ecuador); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 587, in key.

Range: Central Colombia to northern Ecuador.

Nyctibius leucopterus (*Maximilian*). WHITE-WINGED POTOO.

Caprimulgus leucopterus MAXIMILIAN, Reise Brasil, II, 1821, p. 227 (Caravallas, near Bahia, Brazil).

Nyctibius leucopterus DES MURS, Icon. Orn., liv. 9, 1847, pl. 49–50; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 694; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 587, in key.

Range: Coast region of southern Brazil.

[a] *Nyctibius griseus abbotti* RICHMOND: Similar to *N. g. jamaicensis*, but differs in having the black markings on the pileum much reduced in size and extent and without the admixture of pale brownish buffy, the general aspect of the crown being brownish gray and white, with black shaft marks, etc.; dark bars on rectrices less regular and more broken with gray mottlings and wavy lines; throat more ashy without trace of cinnamon buff; blackish postocular stripe almost obsolete. Wing, 297 mm.

[b] *Nyctibius maculosus* RIDGWAY: Size of *N. g. jamaicensis*, but coloration very different; general tone of coloration much darker, the under wing coverts and inner webs of primaries uniform sooty black; posterior under parts spotted with black and a large whitish area on middle wing coverts." (Ridgway, l.c.).

Genus **UROCHROMA** Bonaparte.

Touit Gray, List Gen. and Subgen. Bds., 1855, p. 89 (Type *Psittacus hueti* Temm.) not accepted.

Urochroma Bonap. Naumannia, 1856, Consp. Psitt. Genus 30. (Type *Psittacus hueti* Temminck).

Urochroma stictoptera *Sclater*. SPOTTED-WINGED PARROTLET.

Urochroma stictoptera SCLATER, Proc. Zool. Soc. Lond., 1864, p. 112, pl. 11 (interior of Colombia); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 357; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Central Colombia.

Urochroma emmae *Berlepsch*. EMMA'S PARROTLET.

Urochroma emmae BERLEPSCH, Journ. fur Ornith., 1889, p. 202 (descr. nulla); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 357 (Bogota, Colombia); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Central Colombia.

Urochroma dilectissima *Sclater and Salvin*. BLUE-FRONTED PARROTLET.

Urochroma dilectissima SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1870 (pub. April, 1871), p. 788, pl. 47 (South of Merida, Venezuela); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 356; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 199 (cut, pl. XIV, Fig. 1.)

Range: Eastern Panama and Merida, Venezuela.

***Urochroma costaricensis** *Cory*. RED-FRONTED PARROTLET. Plate I.

Urochroma costaricensis CORY, Field Mus. Nat. Hist. Pub., No. 167, Orn. Ser., I, 1913, p. 283 (Vicinity of Puerto Limon, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 200.

Range: Eastern Costa Rica.

4: Costa Rica, near Limon (including the type).

Urochroma hueti (*Temm.*). HUET'S PARROTLET.

Psittacus huetii TEMMINCK, Pl. Col., liv. 83, 1830, pl. 491 and text (probably in Peru).

Psittacula hueti BOURJ., Perr., 1837–38, pl. 93.

Urochroma hueti SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 355; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 7.

Urochroma huertii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.

Range: Venezuela, Ecuador, and Peru, the Guianas, and Trinidad.

***Urochroma batavica** (*Bodd.*). SCOPULI'S PARROTLET.

Psittacus batavica BODDAERT, Tabl. Pl. Enl., 1783, p. 49 ("Batavia," Venezuela).
Urochroma cingulata SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 351.
Urochroma batavica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 197, in key.
Eucenetus cingulatus REICHENOW, Vogelbild, 1881, pl. 24, Fig. 2.
Touit batavica CHUBB, Bds. Brit. Guiana, I, 1916, p. 336.

Range: Venezuela, British Guiana and Trinidad.

1: British Guiana.

Urochroma wiedi *Allen*. WIED'S BLACK-EARED PARROTLET.

Urochroma wiedi ALLEN, Bull. Am. Mus. N. H., II, 1889, p. 264 (southeastern Brazil); SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 352; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 189, in key.

Range: Southeastern Brazil.

Urochroma purpurata (*Gmel.*). PURPLE GUIANA PARROTLET.

[*Psittacus*] *purpuratus* GMELIN, Syst. Nat., I, 1788, p. 350 (Cayenne).
Urochroma purpurata SOUANCE, Icon. Perr., 1857, pl. 27; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 353; GOELDI, Alb. de Aves Amazon, pt. 2, 1902, pl. 16, Fig. 6; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 198, in key.
Touit purpurata CHUBB, Bds. Brit. Guiana, I, 1916, p. 337.

Range: Guianas and northeastern Brazil.

Urochroma surda (*Kuhl.*). GOLDEN-TAILED PARROTLET.

Psittacus surdus KUHL. Consp. Psitt., 1820, p. 59 (Brazil); HAHN. Orn. Atlas Papag., 1835, p. 55, pl. 40.
Urochroma surda SOUANCE, Icon. Perr., 1857, pl. 38; SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 354; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VII, 1916, p. 198, in key.

Range: Southeastern Brazil.

Genus **PIONITES** Heine.

Pionites Heine, Nom. Mus. Heine Orn., 1890, p. 231 (Type *Psittacus melanocephalus* Linn.).

***Pionites melanocephala** (*Linn.*). BLACKED-HEADED CAIQUE.

Psittacus melanocephalus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 149 ("Mexico," Cayenne designated by Brabourne and Chubb).
Caica melanocephala SALVADORI, Cat. Bds. Brit. Mus., XX, 1891, p. 358.
Pionites melanocephalus GOELDI, Alb. de Aves Amazon, 1902, pt. 2, pl. 15, Fig. 7.
Le Parroquit mai pouri Levaill, Perr., 1805, pls. 119–120.

Range: Venezuela, Guiana, and northern Brazil.

2: Venezuela (Guanaco) 1; and Dutch Guiana (Paramaribo) 1.

7: Florida (Gainesville 3, West Jupiter 3, Tampa 1); including the type of species, Field Museum collection No. 7993 (formerly, collection of F. M. Chapman, No. 847, Gainesville, Fla., May, 19, 1887).

***Chordeiles virginianus vicinus** *Riley*. BAHAMA NIGHTHAWK.

Chordeiles virginianus vicinus RILEY, Auk, 1903, p. 432 (Long Island, Bahamas); OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 80; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 575.

Range: Bahama Islands.

†11: The Bahama Islands (Inagua 4, Great Bahamas 3, Abaco 2 and Acklin 2).

***Chordeiles virginianus minor** (*Cabanis*). CUBAN NIGHTHAWK.

Chordeiles minor CABANIS, Journ. für Ornith., 1856, p. 5 (northern coast of Cuba).

Chordeiles virginianus minor OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 82; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 576.

Range: Greater Antilles, Cuba, Isle of Pines, Haiti, Jamaica and Porto Rico.

22: San Domingo (La Vega, Island of Hayti) 20; and Cayman Broc 2.

***Chordeiles acutipennis acutipennis** (*Bodd*). SOUTH AMERICAN NIGHTHAWK.

Caprimulgus acutipennis BODDAERT, Tabl. Planch. Enlum. d'Hist. Nat., 1783, p. 46 (Guiana).

Chordeiles acutipennis acutipennis OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 94; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 561, in key.

Range: Greater portion of South America from at least southern Brazil and Peru northward to Guiana, Colombia, Tobago, Trinidad, etc. (except the Pacific slope, from northern Chile to northern Peru?).

†12: Venezuela (Encontrados 8, Maracaibo 1); and Brazil (Boa Vista, 1 "Brazil" 2).

***Chordeiles acutipennis exilis** (*Lesson*). CHILIAN NIGHTHAWK.

Caprimulgus exilis LESSON, Rev. Zool., 1839, p. 44 (Chile).

Caprimulgus pruinosus TSCHUDI, Arch. für Naturg., 1844, p. 268.

[*Chordeiles*] *pruinosus* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 98.

Subsp. A. Chordeiles pruinosus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 616.

Chordeiles acutipennis exilis OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 98.

Range: Pacific slope of South America, from northwestern Peru probably to northern Chile.

5: Peru (Menuchuco).

***Chordeiles acutipennis micromeris** *Oberholser.* YUCATAN NIGHTHAWK.

Chordeiles acutipennis micromeris OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 100 (Xbac, Yucatan, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 577.

Range: Panama to southern Mexico.

1: Nicaragua.

***Chordeiles acutipennis texensis** (*Lawr.*). TEXAS NIGHTHAWK.

Chordeiles texensis LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VI, 1856, p. 167 (Rio Grande, Texas).

Chordeiles acutipennis texensis OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, p. 103; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 581; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 273 (Noanama, Colombia, Dec. 29 and 30).

Range: Southwestern United States (S. E. Colorado, S. Utah, Arizona, and south-central California) to central Mexico and in winter to Panama and Colombia.

†13: Arizona (Fairbanks, Camp Lowell, etc.) 9; Texas 1; California (San Raphael) 1; Yucatan 1; and Guatemala 1.

***Chordeiles acutipennis inferior** *Oberholser.* SAN LUCAS NIGHTHAWK.

Chordeiles acutipennis inferior OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 109 (Triumfo, Lower California); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 580.

Range: Lower California.

1: Lower California.

Chordeiles rupestris rupestris (*Spix*). SAND-COLORED NIGHTHAWK.

Caprimulgus rupestris SPIX, Av. Bras., II, 1825, p. 2, pl. 2 (Rio Negro, N. Brazil).

Chordeiles rupestris HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 617; HELLMAYR, Nov. Zool., XVII, 1910, p. 378.

Chordeiles rupestris rupestris OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 114.

Range: Greater portion of northern and central South America, from Bolivia, Brazil and Peru northward.

Chordeilies rupestris xyostictus[a] *Oberholser.* COLOMBIAN NIGHTHAWK.

Chordeiles rupestris xyostictus OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 116 (Bogota, Colombia).

Range: Central Colombia.

[a] *Chordeiles rupestris xyostictus* OBERHOLSER. "Similar to *C. r. rupestris* SPIX, but somewhat larger; upper surface, including the wing coverts, much paler, more buffy (less grayish); the dark markings much smaller; and breast more heavily spotted." (Oberholser, l.c.). Detailed description also given.

Electron carinatus viridis *Ridgway*. COSTA RICA KEEL-BILLED MOTMOT.

Electron carinatus viridis RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 89 (La Vijagua, northwestern Costa Rica).

Range: Northwestern Costa Rica.

Genus **EUMOMOTA** Sclater.

Eumomota Sclater, Proc. Zool. Soc. Lond., 1857, p. 257 (Type *Prionites superciliosus* Sandbach).

***Eumomota superciliosa superciliosa** (*Sandbach*). TURQUOISE-BROWED MOTMOT.

P[yionites] superciliosus SANDBACH, Athenaeuim, 1837, No. 517, p. 698 (Mexico).
Eumomota superciliaris SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 317, part.
Eumomota superciliosa superciliosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 478.

Range: Yucatan and Cozumel Island, Campeche and Tobasco.

2: Yucatan.

Eumomota superciliosa bipartita *Ridgway*. GREEN-BREASTED TURQUOISE-BROWED MOTMOT.

Eumomota superciliaris bipartitus RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 90 (Cacoprieto, Oaxaca, Mexico).
Eumomota superciliosa bipartitus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 480.

Range: Southern Mexico, Guatemala and Honduras.

5: Guatemala.

***Eumomota superciliosa australis** *Bangs*. SOUTHERN TUROUOISE-BROWED MOTMOT.

Eumomota superciliosa australis BANGS, Proc. Biol. Soc. Wash., XIX, 1906, p. 104 (Bebedero, northwestern Costa Rica).
Eumomota superciliosa australis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 481.

Range: Northwestern Costa Rica, western Nicaragua and Salvador

6: Nicaragua 5; and Salvador 1.

Genus **MOMOTUS** Brisson.

Momotus Brisson, Orn. IV, 1760, p. 465 (Type *Ramphastos momota* Linn.).

***Momotus momota momota** (*Linn.*). COMMON MOTMOT.

Ramphastos momota LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 152 (Cayenne).
Momotus momota SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 319; GOELDI, Alb. de Aves Amazon, pt. 3, 1905–06, pl. 28, Fig. 1.

Range: Guiana and north Brazil.

3: British Guiana.

Momotus momota cametensis *Snethlage*.[a] SNETHLAGE'S MOTMOT.

Momotus momota cametensis SNETHLAGE, Orn. Monatsb., XX, 1912, p. 15 (Cameta, on the R. Tocantins); *Id.*, Boll. Mus. Goeldi, VIII, 1914, p. 172.

Range: Rio Tocantins region, Brazil.

Momotus momota parensis *Sharpe*. PARA MOTMOT.

Momotus parensis SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 320 (Para).
Momotus momota parensis SNETHLAGE, Boll. Mus. Goeldi, VIII, 1914, p. 172; HELLMAYR, Novit. Zool., XII, 1905, p. 296.

Range: Northeast Brazil.

***Momotus momota ignobilis** (*Berlepsch*). OBSCURE MOTMOT.

Momotus brasiliensis ignobilis BERLEPSCH, Journ. für Ornith., 1889, p. 307 (Shaniesi, Yurimaguas, Peru).
Momotus bartletti SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 320, pl. IX.
Momotus momota ignobilis CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 271.

Range: East Peru, east Ecuador and Colombia.

1: "Colombia."

Momotus momota nattereri (*Sclater*). NATTERER'S MOTMOT.

Momotus nattereri SCLATER, Proc. Zool. Soc. Lond., 1857, p. 251 (Yungas, Bolivia); SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 322.
Momotus momotus nattereri HELLMAYR, Nov. Zool., XIV, 1907, p. 28; *Id.*, XVIII, 1910, p. 388.

Range: Bolivia, N. Argentine, west Brazil and eastern Peru.

Momotus venezuelae *Sharpe*. VENEZUELAN MOTMOT.

Momotus venezuelae SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 321 (Puerto Cabello, Venezuela).

Range: Northern Venezuela.

***Momotus venezuelae osgoodi**[b] (*Cory*). OSGOOD'S MOTMOT.

Momotus osgoodi CORY, Field Mus. Pub., No. 167, Orn. Ser., Vol. I, 1913, p. 285 (El Guayabel, 10 miles east of Cucuta, eastern Colombia).

Range: Interior of western Venezuela and extreme eastern Colombia.

7: Colombia (near Cucuta, including the type) and western Venezuela (Orope).

[a] Differs from *M. m. momota* (LINN.) by the reddish chestnut underparts; differs from *M. m. parensis* SHARPE by the chestnut red band on the nape extending to the middle of the black ear spot.

[b] This may prove inseparable from *M. v. venezuelae* SHARPE. I have not seen specimens from Puerto Cabello, Venezuela.

Lurocalis rufiventris *Tacz.* RED-VENTED NIGHTHAWK.

Lurocalis rufiventris TACZANOWSKI, Orn. Peru, I, 1884, p. 209 (Tambillo, Peru); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 622; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 273 (Aguadita; Subia, Colombia).

Range: Peru, Colombia and Venezuela.

Genus **UROPSALIS** Miller.

Uropsalis Miller, Bull. Am. Mus. Nat. Hist., XXXIV, 1915, p. 516 (Type *Hydropsalis lyra* Bonap.).

***Uropsalis lyra lyra** (*Bonap.*). LYRE NIGHTHAWK.

Hydropsalis lyra BONAPARTE, Consp. Av., I, 1850, p. 59 (Colombia).
Macropsalis lyre HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 602, part.

Range: Colombia, Ecuador and Venezuela.

1: "South America."

Uropsalis lyra peruana[a] (*Berlepsch and Stolzman*). PERUVIAN NIGHTHAWK.

Macropsalis lyra peruana BERLEPSCH and STOLZMAN, Ornis, XIII, 1906, p. 121 (Chontopunco, Maracapata,[b] Peru).

Range: Peru.

Uropsalis segmentata (*Cassin*). CASSIN'S NIGHTHAWK.

Hydropsalis segmentata CASSIN, Proc. Ac. Phila., 1849, p. 238 (Bogota, Colombia).
Macropsalis segmentata HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 602; TACZ., Orn. Peru, I, 1884, p. 233.

Range: Colombia, Ecuador, Peru and Bolivia.

Genus **MACROPSALIS** Sclater.

Macropsalis Sclater, Proc. Zool. Soc. Lond., 1866, p. 143 (Type *Caprimulgus forcipatus* Nicht. = *Hydropsalis creagra* Bonap.).

Macropsalis kalinowskii[c] *Berlepsch and Stolzman.* KALINOWSKI'S NIGHTHAWK.

Macropsalis kalinowskii BERLEPSCH and STOLZMAN, Ibis, 1894, p. 399 (Pariayacu, near Maraynioc, central Peru).

Range: Central Peru.

[a] *Uropsalis lyra peruana* BERL. & STOLZ.: Similar to *M. l. lyra* (BONAP.), but differs in having the general plumage more reddish and the wings longer (male, wing 198 mm).

[b] "Cuzco" given by Brabourne and Chubb (Bds. S. A., I, 1912, p. 99, No. 939).

[c] *Macropsalis kalinowski* BERL. & STOLZ.: Differs from *M. l. lyra* (BONAP.) and *M. segmentata* (CASSIN) in shape and coloration of the outer rectrices which are shorter and narrower; the shafts and the outer web of the outer rectrix are almost entirely white, while in *M. lyra* they are black, and in *M. segmentata* the shaft is whitish, but the webs are blackish tinged with rusty or reddish (for other differences see original description, l.c.). I have not seen this species.

Macropsalis forcipata (*Nitzsch*). BRAZILIAN NIGHTHAWK.

Caprimulgus forcipatus NITZSCH, Pterylog., 1840, p. 125 (South Brazil).
Macropsalis forcipata HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 603.
Macropsalis creagra, GOELDI, Alb. de Aves Amazon, pt. 3, 1906, pl. 46, Fig. 4.

Range: Eastern Brazil.

Genus **HYDROPSALIS** Wagler.

Hydropsalis Wagler, Isis, 1832, p. 1222 (Type *Caprimulgus furcifer* Vieill.).

Hydropsalis torquata (*Gmel.*). RINGED NIGHTHAWK.

Caprimulgus torquatus GMELIN, Syst. Nat., II, 1788, p. 1032 (Brazil).
Hydropsalis torquata HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 598.
Caprimulgus psalurus TEMMINCK, Pl. Col., 1823, pl. 158.

Range: Brazil.

Hydropsalis furcifera (*Vieill.*). FORK-TAILED NIGHTHAWK.

Caprimulgus furcifera VIEILLOT, Nouv. Dict. d'Hist. Nat., X, 1817, p. 242 (Paraguay).
Hydropsalis furcifera SCLATER and HUDSON, Argentine Orn., II, 1889, p. 15, pl. 12; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 599; GRANT, Ibis, 1911, p. 319 (N. Argentine).

Range: Paraguay to central Brazil, Bolivia and Argentina.

Hydropsalis climacocerca *Tsch.* BANDED NIGHTHAWK.

Hydropsalis climacocerca TSCHUDI Wiegm., Arch. für Naturg., 1844, p. 269 (Peru); HARTERT, Cat. Bds. Brit. Mus., XV, 1892, p. 600; GOELDI, Alb. de Aves Amazon, pt. 3, 1906, pl. 46; CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 274 (La Morelia, Colombia).

Range: Brazil, east Peru, east Ecuador, Colombia and Bolivia.

Hydropsalis schomburgki *Sclater.* SCHOMBURGK'S NIGHTHAWK.

Hydropsalis schomburgki SCLATER, Proc. Zool. Soc. Lond., 1866, p. 142 (British Guiana); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 601; CHUBB, Bds. Brit. Guiana, I, 1916, p. 362, pl. VII.

Range: Guiana.

Genus **ELEOTHREPTUS** Gray.

Eleothreptus Gray, List Gen. Bds., 1840, p. 7 (new name to replace *Amblypterus* Gould, preoccupied) (Type *Amblypterus anomalus* Gould).

Eleothreptus anomalus (*Gould*). SHORT-WINGED NIGHTHAWK.

Amblypterus anomalus GOULD, Proc. Zool. Soc. Lond., 1837, p. 105 ("Brazil").
Heleothreptus anomalus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 593; SCLATER and HARTERT, Argentine Orn., II, 1889, p. 16.

Range: Central and southern Brazil and Argentina.

Suborder TODI.

Family TODIDÆ. Todys.

Genus TODUS Brisson.

Todus Brisson, Orn., IV, 1760, p. 518 (Type *Alcedo todus* Linn.).

***Todus multicolor** *Gould.* CUBAN TODDY.

Todus multicolor GOULD, Icones Avium, 1837, p. 2 (no locality given = Cuba); D'ORBIGNY in La Sagras Nat. Hist. Cuba Ois., 1839, p. 132, pl. 22; CORY, Auk, 1886, p. 372; *Id.*, Bds. West Indies, 1889, p. 167; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 443; TODD, Ann. Carnegie Mus., X, 1916, P. 238.

Todus viridis multicolor WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 6.

Range: Western Cuba and Isle of Pines.

7: Cuba.

Todus multicolor exilis[a] *Barbour and Brooks.* EASTERN CUBAN TODY.

Todus multicolor exilis BARBOUR and BROOKS, Proc. N. E. Zool. Club, VI, 1917, p. 51 (Preston, Nipa Bay, Province of Oriente, eastern Cuba).

Range: Eastern Cuba.

Todus pulcherrimus *Sharpe.* SHARPE'S TODY.

Todus pulcherrimus SHARPE, Ibis, 1874, p. 353, pl. 13, Fig. 3 (Jamaica?); *Id.*, Cat. Bds. Brit. Mus., XVII, 1892, p. 336; CORY, Auk, 1886, p. 371; *Id.*, Bds. West Indies, 1889, p. 166; SCOTT, Auk, 1892, p. 275; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 445.

Range: Unknown; Jamaica[b]?

***Todus angustirostris** *Lafresnaye.* NARROW-BILLED TODY.

Todus angustirostris LAFRESNAYE, Rev. et Mag. de Zool., III, 1851, p. 478 (Santo Domingo); CORY, Bds. Haiti and San Domingo, 1885, p. 107, pl. 23, Fig. 4; *Id.*, Bds. West Indies, 1889, p. 164; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 445.

Range: San Domingo, Island of Haiti.

†106: Haiti and San Domingo.

[a] *Todus m. exilis* BARBOUR & BROOKS: Differs from *T. m. multicolor* GOULD in having lighter blue on sides of neck and more restricted and duller yellow patch at base of forehead.

[b] Ridgway (l.c.) suggests *T. pulcherrimus* SHARPE may represent an extreme variation of plumage of *T. subulatus* GRAY from Haiti, and this may be the correct solution of a puzzling problem, but I have examined the type of *T. pulcherrimus* in the British Museum and while it approaches nearest to *T. subulatus*, it can be distinguished at a glance from any specimen of that species seen by me.

***Todus subulatus** *Gray*. HAITIAN TODY.

Todus subulatus GRAY, Gen. Bds., I, 1847, pl. 22 (Santo Domingo[a]); SHARPE, Ibis, 1874, p. 351, pl. 13, Figs. 1–2; CORY, Bds. Haiti and San Domingo, 1885, p. 105, pl. 23, Fig. 3; *Id.*, Bds. West Indies, 1889, p. 165; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 334, part; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 447.

Todus viridis subulatus WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 5.

Range: Haiti and San Domingo, Island of Haiti.

†230: Haiti and San Domingo.

***Todus todus** (*Linn*). JAMAICAN TODY.

Alcedo todus LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 116.

Todus viridis GOSSE, Bds. Jamaica, 1847, p. 72; *Id.*, Illust. Bds. Jamaica, 1849, pl. 14; CORY, Auk, 1886, p. 369; *Id.*, Bds. West Indies, 1889, p. 369; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 334; SCOTT, Auk, 1892, p. 274.

Todus todus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 448.

Todus viridis viridis WYSTMAN, Gen. Avium, pt. 2, 1905, Figs. 1–2–3 and 4.

Range: Island of Jamaica, West Indies.

9: Jamaica.

***Todus mexicanus** *Lesson*. PORTO RICAN TODY.

Todus mexicanus LESSON, Ann. Sci. Nat., 2 Ser., IX, 1838, p. 167 (Mexico — error = Porto Rico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 449.

Todus hypochondriacus CORY, Auk, 1886, p. 371; *Id.*, West Indies, 1889, p. 166; SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 336.

Todus viridis hypochondriacus WYSTMAN, Gen. Avium, pt. 2, 1905, Fig. 7.

Range: Island of Porto Rico, West Indies.

†15: Porto Rico.

Suborder MOMOTI.

Family MOMOTIDÆ. Motmots.

Genus **UROSPATHA** Salvadori.

Urospatha Salvadori, Atti. Roy. Accad. Sci. Torino, IV, 1868, p. 179 (Type *Prionites martii* Spix).

***Urospatha martii martii** (*Spix*). RUFOUS MOTMOT.

Prionites martii SPIX, Av. Bras., I, 1825, p. 64, pl. 60 (near Para, Brazil).

Urospatha martii SHARPE, Cat. Bds. Brit. Mus., XVII, 1892, p. 314, part.

[a] Type locality by designation.

Genus **MICROSIPHONORHIS**[a] Chapman

Microsiphonorhis Chapman, Bull. Am. Mus. N. H., XXXVII, 1917, p. 329 (Type *Microsiphornorhis brewsteri*).

Microsiphonorhis brewsteri *Chapman.*[b] BREWSTER'S PARAQUE.

Microsiphonorhis brewsteri CHAPMAN, Bull. Am. Mus. N. H., XXXVII, 1917, p. 329 (Tubano, Prov. Azua, Santo Domingo, W. I.).

Range: San Domingo, Island of Haiti, West Indies.

Genus **SIPHONORHIS** Sclater.

Siphonorhis Sclater, Proc. Zool. Soc. Lond., 1861, p. 77 (Type *Caprimulgus americanus* Linn.).

Siphonorhis americana (*Linn.*). JAMAICA GOATSUCKER.

Caprimulgus americanus LINNAEUS, Syst. Nat., ed. 10, 1758, p. 193 ("America calidiore" = Jamaica).

Siphonorhis americanus CORY, Auk, 1886, p. 344; *Id.*, Bds. West Indies 1889, p. 139; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 592.

Siphonorhis americana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 495.

Range: Island of Jamaica, Greater Antilles.

Genus **PHALAENOPTILUS** Ridgway.

Phalaenoptilus Ridgway, Proc. U. S. Nat. Mus., III, 1880, p. 5 (Type *Caprimulgus nuttallii* Audubon).

*Phalaenoptilus nuttallii nuttallii (*Audubon*). POORWILL.

Caprimulgus nuttallii AUDUBON, Orn. Biog., V, 1839, p. 335 (nom. nudum); *Id.*, Bds. Am., oct. ed., VII, 1844, p. 350, pl. 495 (East bank Missouri River, between Fort Union and Fort Pierre).

Phalaenoptilus nuttallii nuttallii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 548.

Phalaenoptilus nuttallii nitidus BREWSTER, Auk, 1887, p. 147.

[a] "Char. gen.—Most nearly related to *Siphonorhis;* Scl. (monotypic; type *S. americana*) but nasal tubes shorter, 1.5 mm. in height (in skin) as compared with 3 mm. in *Siphonorhis;* bill disproportionally smaller, its outline from above more regularly triangular, less shield-shaped, the upper mandible not convex in outline, the ridge on its cutting edge less developed; rictal bristles apparently actually stronger; tail squarer, less graduate; tarsus and toes disproportionately longer." (Chapman, l. c.).

[b] *Microsiphonorhis brewsteri* CHAPMAN: "In general coloration resembling *Siphonorhis americana*, but paler throughout, throat and pectoral band white sharply defined from the black subterminal area, which is much broader; abdominal region buffy white instead of ochraceous buff, more narrowly and less regularly barred; tertials narrwoly tipped with white." (Chapman, l.c.). Size smaller; female: wing, 119.5; tail, 94.4; bill, 8.5 mm. Detailed description given. The type, an adult female is the only known specimen.

Range: Western United States, from Nebraska, Kansas and South Dakota north to south eastern British Colombia, south to central Mexico and Lower California.

†11: Arizona 6; Colorado 3; and Mexico (Sonora) 2.

***Phalaenoptilus nuttalli californicus** *Ridgway*. DUSKY POORWIL .

Phalaenoptilus nuttalli californicus RIDGWAY, Man. N. A. Bds., 1887, p. 588, footnote (Nicasio, Marion County, California); *Id.*, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 552.

Range: California, except southeastern and northeastern Desert districts; northern Lower California?

2: California (Nicasio and Pasadena).

Genus **OTOPHANES** Brewster.

Otophanes Brewster, Auk, 1888, p. 88 (Type *Otophanes mcleodii* Brewster).

Otophanes mcleodii *Brewster*. EARED POORWILL.

Otophanes mcleodii BREWSTER, Auk, 1888, p. 89 (Sierra Madre of Chihuahua, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 555.

Range: Northwestern Mexico; Vera Cruz?

Genus **NYCTAGREUS** Nelson.

Nyctagreus Nelson, Proc. Biol. Soc. Wash., 1901, p. 171 (Type *Caprimulgus yucatanensis* Hartert).

Nyctagreus yucatenensis (*Hartert*). YUCATAN POORWILL.

Caprimulgus yucatanensis HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 575 (Tizimin, Yucatan).

Nyctagreus yucatanensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 557.

Range: Yucatan and Campeche, southeastern Mexico.

Genus **THERMOCHALCIS** Richmond.

Thermochalcis Richmond, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 180 (new name for *Stenopsis Cassin*, preoccupied) (Type *Caprimulgus cayennensis* Gmel.).

***Thermochalcis cayennensis cayennensis** (*Gmel.*). CAYENNE STENOPSIS.

Caprimulgus cayennensis GMELIN, Syst. Nat., I, pt. II, 1789, p. 1031 (Cayenne).

Stenopsis cayennensis HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 583, part.

Stenopsis cayennensis cayennensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 498, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 274 (La Playa, Villavicencio, Colombia).

Range: Guiana, Venezuela, north Brazil, Colombia and Trinidad?

6: British Guiana 2; Venezuela (Encontrados, etc.) 3; and north Brazil (near Boa Vista) 1.

***Thermochalcis cayennensis tobagensis**[a] (*Ridgway*). TOBAGO STENOPSIS.

Stenopsis tobagensis RIDGWAY, Proc. Biol. Soc. Wash., xxi, 1908, p. 195 (Tobago).

?*Caprimulgus leopetes* JARDINE and SELBY, Illust. Orn. Ser., I, Vol. II, pl. 87 (Tobago); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 275, in text (crit.).

Range: Island of Tobago; Trinidad?

2: Tobago.

***Thermochalcis cayennensis insularis** (*Richmond*). ISLAND STENOPSIS.

Stenopsis cayennensis insularis RICHMOND, Proc. Biol. Soc. Wash., XV, 1902, p. 159 (Curacao Island); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 499.

Range: Curacao Island, Bonaire Island and Margarita Island; coast of Venezuela?

2: Margarita Island.

Thermochalcis cayennensis monticola[b] (*Chapman*). COLOMBIAN STENOPSIS.

Stenopsis cayennensis monticola CHAPMAN, Bull. Am. Mus. N. H., XXXIII, 1914, p. 172 (San Antonio, alt. 6,600 ft., western Andes above Cali, Colombia); *Id.*, XXXVI, 1917, p. 275 (San Antonio, Western Andes).

Range: Colombia.

Thermochalcis cayennensis albicauda (*Lawrence*). WHITE-TAILED STENOPSIS.

Stenopsis albicauda LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., XI, 1875, p. 89 (Talamanca, Costa Rica).

Stenopsis cayennensis albicauda, RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 502.

Range: Costa Rica and Panama.

[a] *Thermochalcis cayennensis tobagensis* (RIDGWAY): Differs from *T. c. cayennensis* (GMEL.) in lighter coloration and more white on the lateral rectrices, and wing and tail shorter. Differs from *T. c. insularis* (RICHMOND) in having inner webs of all rectrices (except middle pair) mostly white; tail shorter. Very close to *T. c. cayennensis* (see Ridgway, Bds. N. & M. Am., VI, 1914, p. 498, footnote). It is probable that if the Tobago bird proves separable, it should stand as *Thermochalcis c. leopetes* Jardine and Selby.

[b] *Thermochalcis cayennensis monticola* (CHAPMAN): Differs from *T. c. cayennensis* (GMEL.) in having longer wings and tail and bill larger; breast and flanks more heavily barred and tail bands wider. The female is much darker (and other characters). Differs from *T. c. albicauda* (LAWRENCE) in males having the black bar crossing the white vane of the tail feathers (and other characters). The female is darker above and much deeper buff below than in *albicauda*.

***Thermochalcis longirostris** *Bonap.* BANDED-WING STENOPSIS.

Caprimulgus longirostris BONAPARTE, Journ. Ac. Nat. Sci. Phila., 1825, p. 284 (Brazil).
Stenopsis bifasciata SCLATER and HUDSON, Argentine Orn., II, 1889, p. 14.
Stenopsis longirostris HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 585.

Range: Southern South America; Peru, Bolivia, southern Brazil, Argentina, Chile and northern Patagonia.

1: Peru (Mts. near Otuzco).

Thermochalcis decussata (*Tschudi*). TSCHUDI'S STENOPSIS.

Caprimulgus decussatus TSCHUDI, Arch. fur Naturg., 1844, p. 268 (Peru).
Stenopsis aequicaudata TACZ., Orn. Peru, I, 1884, p. 222.
Stenopsis decussata HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 586.

Range: Peru.

Thermochalcis candicans (*Pelz.*). PELZELN'S STENOPSIS.

Stenopsis candicans PELZELN, Proc. Zool. Soc. Lond., 1866, p. 588 (Paraguay); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 582.

Range: Paraguay and south-central Brazil; southern Brazil?

Genus **SYSTELLURA** Ridgway.

Systellura Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 92 (Type *Stenopsis ruficervix* Sclater).

***Systellura ruficervix** (*Sclater*). RUFOUS-NAPED STENOPSIS.

Stenopsis ruficervix SCLATER, Proc. Zool. Soc. Lond., 1866, p. 140, pl. XIV (Colombia); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 584; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 275 (Colombia, several localities).
Thermochalcis ruficervix CHUBB, Bds. Brit. Guiana, I, 1916, p. 366.

Range: Colombia, Venezuela, Peru and Guiana.

4: Venezuela (Paramo de Tama 2, and near Merida 2).

Genus **ANTROSTOMUS**[a] Bonaparte.

Antrostomus Bonaparte, Geog. & Comp. List, 1838, p. 8 (Type, fixed by Gray, 1840, *Caprimulgus carolinensis* Gmel.).[b]

***Antrostomus carolinensis** (*Gmel.*). CHUCK-WILL'S WIDOW.

Caprimulgus carolinensis GMELIN, Syst. Nat., I, 1789, p. 1028 (Carolina); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 565.

[a] Mr. Oberholser restricts the Genus *Antrostomus* BONAP. to *A. carolinensis* and considers the other members of the group to belong to a new genus, *Setochalcis* (Bull. 86, U. S. Nat. Mus., 1914, p. 11). I am unable to verify his conclusions with the slight material at my disposal and have therefore decided (provisionally) not to make the change.

[b] See Stone, Auk, 1907, p. 196; also, Allen, Bull. Am. Mus. N. H., XXIV, 1908, p. 32.

Antrostomus carolinensis BAIRD, Brewer. & Ridgway, Hist. N. A. Bds., II, 1874, p. 410, pl. 46, Fig. 1; CORY, Bds. West Indies, 1889, p. 136; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 506.

Range: Southern North America to northern South America; winters from southern Florida through the Bahamas, Greater Antilles, Mexico and Central America to northern Colombia.

12: North Carolina 1; Florida 4; Texas 1; Bahama Islands (Andros) 1; Haiti (Le coup) 2; San Domingo (Inagua and Puerta Plata) 2; and Nicaragua 1.

Antrostomus rufus rufus (*Bodd.*). RUFOUS GOATSUCKER.

Caprimulgus rufus BODDAERT, Tabl. Pl. Enl., 1783, p. 46 (Cayenne); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 566, part.

Antrostomus rufus rufus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 510.

Setochalcis rufa rufa OBERHOLSER, Bull. 86, U. S. Nat. Mus., 1914, p. 12.

Range: Panama, Colombia, Venezuela, the Guianas to southern Brazil and northern Argentina.

***Antrostomus rufus otiosus** *Bangs.* SANTA LUCIA GOATSUCKER.

Antrostomus rufus otiosus BANGS, Proc. Biol. Soc. Wash., XXIV, 1911, p. 188 (Santa Lucia Island, Lesser Antilles); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 513.

Range: Island of Santa Lucia, Lesser Antilles.

1: St. Lucia.

***Antrostomus cubanensis** *Lawrence.* CUBAN GOATSUCKER.

Antrostomus cubanensis LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1862, p. 260 (Cienga de Zapata Island and Coast of Manzanillo, Cuba); CORY, Auk, 1886, p. 342; *Id.*, Bds. West Indies, 1889, p. 137; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 513.

Caprimulgus cubanensis HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 571.

Setochalcis cubanensis TODD, Ann. Carnegie Mus., X, 1916, p. 238.

Range: Cuba, Isle of Pines, Greater Antilles.

1: Cuba.

Antrostomus sericocaudatus *Cassin.* SILKY-TAILED GOATSUCKER.

Antrostomus sericocaudatus CASSIN, Proc. Ac. Nat. Sci., Phila., IV, 1848, p. 238, pl. XII ("S. America" = S. E. Brazil); SCLATER, Proc. Zool. Soc. Lond., 1866, p. 583.

Caprimulgus sericocaudatus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 567.

Setochalcis sericocaudata OBERHOLSER, Bull. 86, U. S. Nat. Mus., 1914, p. 12.

Range: Southeastern Brazil (Bahia, southward).

***Antrostomus vociferus vociferus** (*Wilson*). WHIPPOORWILL.

Caprimulgus vociferus WILSON, Am. Orn., V, 1812, p. 71, pl. 41, Figs. 1, 2, and 3 (eastern United States, probably near Philadelphia, Pa.); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 568.

Antrostomus vociferus CORY, Cat. Bds. West Indies, 1892, p. 143 (Porto Rico).
Antrostomus vociferus vociferus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 515.

Range: Eastern United States and southern Canada, from Nova Scotia and Keewatin, etc., southward to the Gulf of Mexico, Mexico, and in Central America to Salvador; casual in Costa Rica; accidental in Porto Rico.

10: Maine 1; No. Carolina 1; Florida 2; Illinois 4; Wisconsin 1; Porto Rico W. I. 1.

Antrostomus vociferus macromystax *Wagler*. WAGLER'S WHIPPOORWILL.

Caprimulgus macromystax WAGLER, Isis, XXIV, 1831, p. 533 ("Mexico"=-Mt Orizaba, Puebla, Mexico).[a]
Antrostomus vociferus arizonae BREWSTER, Bull. Nutt. Orn. Club, VI, 1881, p. 69.
Antrostomus vociferus macromystax RIDGWAY, Bull. U. S. Nat. Mus., No. 50,VI 1914, p. 520.

Range: East and south Central Mexico from southern Coahuila to Guerro.

***Antrostomus vociferus arizonae**[b] *Brewster*. STEPHEN'S WHIPPOORWILL.

Antrostomus vociferus arizonae BREWSTER, Bull. Nutt. Orn. Club, 1881, p. 69 (Chiricahua Mts., Arizona).
Setochalcis vocifera arizonae OBERHOLSER, Bull. 86, U. S. Nat. Mus., 1914, p. 12.

Range: Southern Arizona, western Texas, south in Mexico to Durango and Jalisco.

8: Arizona (Huachua and Santa Rita Mts.) 6; Texas (Fort Worth?) 1; and Mexico (Chihuahua) 1.

***Antrostomus vociferus chiapensis** (*Nelson*). CHIAPAS WHIPPOORWILL.

Antrostomus chiapensis NELSON, Auk, 1900, p. 261 (Valley of Comitan, Chiapas).
Antrostomus (vociferus?) chiapensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 522.

Range: Southern Mexico (State of Chiapas) and Guatemala.

2: Guatemala.

Antrostomus vociferus oaxacae (*Nelson*). OAXACA WHIPPOORWILL.

Antrostomus oaxacae NELSON, Auk, 1900, p. 260 (near City of Oaxaca, Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 523.
Setochalcis oaxacae OBERHOLSER, Bull. 86, U. S. Nat. Mus., 1914, p. 12.

Range: State of Oaxaca, southern Mexico.

[a] Type locality designated by Oberholser, Bull. 86, U. S. Nat. Mus., 1914, p. 12, footnote.

[b] *Antrostomus vociferus arizonae* BREWSTER: Similar to *A. v. macromystax* WAGLER, but general plumage lighter and more brownish.

Antrostomus salvini (*Hartert*). SALVIN'S WHIPPOORWILL.

Caprimulgus salvini HARTERT, Ibis, 1892, p. 287, in text (Mirador, Vera Cruz, Mexico); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 568.
Antrostomus salvini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 525.
Antrostomus notabilis NELSON, Proc. Biol. Soc. Wash., XVIII, 1905, p. 111.

Range: Eastern Mexico (Taumaulipas, Vera Cruz, etc.) and Yucatan.

Antrostomus nelsoni[a] *Ridgway*. NELSON'S WHIPPOORWILL.

Antrostomus nelsoni RIDGWAY, Proc. Biol. Soc. Wash., XXV, 1912, p. 90 (Chichen-Itza, Yucatan).

Range: Yucatan.

Antrostomus badius *Bangs and Peck*. PECK'S WHIPPOORWILL.

Antrostomus badius BANGS and PECK, Proc. Biol. Soc. Wash., XXI, 1908, p. 44 (Toledo District, British Honduras); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 529.

Range: British Honduras.

Antrostomus ridgwayi ridgwayi (*Nelson*). GUERRERO WHIPPOORWILL.

Antrostomus ridgwayi NELSON, Auk, 1897, p. 50 (Tlalkisala, Guerrero, S. W. Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 531.

Range: Southwestern Mexico (States of Guerrero and Sinaloa).

Antrostomus ridgwayi goldmani (*Nelson*). GOLDMAN'S WHIPPOORWILL.

Antrostomus goldmani NELSON, Proc. Biol. Soc. Wash., XIII, 1899, p. 26 (near Mazatlan, Sinaloa, W. Mexico).
Setochalcis ridgwayi goldmani OBERHOLSER, Bull. 86, U. S. Nat. Mus., 1914, p. 12.

Range: Western Mexico (State of Sinaloa).

Antrostomus saturatus *Salvin*. DUSKY WHIPPOORWILL.

Antrostomus saturatus SALVIN, Proc. Zool. Soc. Lond., 1870, p. 203 (Volcan de Chiriqui, Panama); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, VI, 1914, p. 534.
Caprimulgus saturatus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 572.

Range: Mountains of Costa Rica and western Panama.

Genus **NYCTIPHRYNUS** Bonaparte.

Nyctiphrynus Bonaparte, Revista Contemporanea, IX, 1857, p. 215 (Type *Caprimulgus ocellatus* Tschudi).

Nyctiphrynus ocellatus (*Tschudi*). EYED NIGHT HAWK.

Caprimulgus ocellatus TSCHUDI, Arch. fur Naturg., 1844, p. 268 (Peru); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 578.

Range: Peru, Ecuador, Brazil, Paraguay, N. Argentine.

[a] Mr. Oberholser believes this to be inseparable from *A. badius* BANGS and PECK.

Nyctiphrynus rosenbergi[a] (*Hartert*). ROSENBERG'S NIGHT HAWK.

Caprimulgus rosenbergi HARTERT, Bull. Brit. Orn. Club, V, 1895, p. 10 (western Colombia).

Antrostomus rosenbergi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 276 (Barbacoas, Colombia).

Range: West Colombia and northern Ecuador.

Genus **ANTIURUS** Ridgway.

Antiurus Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 98 (Type *Stenopsis maculicaudatus* Lawrence).

Antiurus maculicaudatus (*Lawrence*). SPOTTED-TAILED NIGHT HAWK.

Stenopsis maculicaudatus LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1862, p. 459 ("Para").

Caprimulgus maculicaudatus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 575; CHUBB, Bds. Brit. Guiana, I, 1916, p. 367; HELLMAYR, Novit. Zool. XIV, 1907, p. 397.

Antrostomus maculicaudatus SCLATER, Proc. Zool. Soc. Lond., 1866, p. 586, pl. 46.

Range: Brazil, Peru, Guiana and Colombia.

Genus **SETOPAGIS** Ridgway.

Setopagis Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 98 (Type *Caprimulgus parvulus* Gould).

Setopagis parvulus (*Gould*). LITTLE NIGHTHAWK.

Caprimulgus parvulus GOULD, Proc. Zool. Soc. Lond., 1837, p. 22 (Santa Fe, Rio Parana, Argentina); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 574; HELLMAYR, Nov. Zool., XVII, 1910, p. 381.

Antrostomus parvulus SCLATER, Proc. Zool. Soc. Lond., 1861, p. 138, pl. XIII; CHUBB, Ibis, 1910, p. 267; GRANT, Ibis, 1911, p. 319.

Range: Northern Argentina, Brazil, Paraguay, Peru, Ecuador and Colombia.

Setopagis heterurus[b] *Todd.* SANTA MARTA LITTLE NIGHTHAWK.

Setopagis heterurus TODD, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 81 (La Tigrera, Santa Marta, Colombia).

Range: North Colombia.

[a] *Nyctiphrynus rosenbergi* (HARTERT): Similar to *N. ocellatus* (TSCHUDI), but distinguished at a glance by the presence of two rounded white marks on the longest rectrices; rectrices all tipped with white.

[b] *Setopagis heterurus* TODD: Resembling *S. parvulus* (GOULD), but under parts less rufescent and male with white areas of wings and tail decidedly more extensive covering both webs of the terminal portion of the three outer pairs of rectrices.

Genus **NYCTIPOLUS** Ridgway.

Nyctipolus Ridgway, Proc. Biol. Soc. Wash., XXV, 1912, p. 98 (Type *Caprimulgus nigrescens* Cabanis).

*Nyctipolus nigrescens (*Cabanis*). DARK NIGHTHAWK.

Caprimulgus nigrescens CABANIS in Schomb. Reis. Guiana, III, 1848, p. 710 (British Guiana); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 572; CHUBB, Bds. Brit. Guiana, I, 1916, p. 369; GOELDI, Alb. de Aves Amazon, pt. 3, 1906, pl. 46.

Range: Guiana, north Brazil, Peru, Ecuador and Colombia.

3: Colombia 1; British Guiana 2.

Nyctipolus whitelyi (*Salvin*). WHITELY'S NIGHTHAWK.

Antrostomus whitelyi SALVIN, Ibis, 1885, p. 438 (Mt. Roraima, British Guiana).
Caprimulgus whitelyi HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 573, pl. XII; CHUBB, Bds. Brit. Guiana, I, 1916, p. 368.

Range: British Guiana.

Nyctipolus hirundinaceus hirundinaceus (*Spix*).[a] SPIX'S NIGHTHAWK.

Caprimulgus hirundinaceus SPIX, Av. Bras., II, 1825, p. 2, pl. III, Fig. 1 (Upper Amazon? probably southern Brazil); HELLMAYR, Abh. K. Bayer Akad. Wiss., München, XXII, 1906, p. 636.
Nyctipolus hirundinaceus OBERHOLSER, Bull. U. S. Nat. Mus., No. 86, 1914, p. 97, in text.
Nyctipolus hirundinaceus hirundinaceus CORY, Field Mus. Pub., No. 193, Zool. Ser., XII, 1917, p. 3.

Range: Southern Brazil, Paraguay, N. Argentine.

*Nyctipolus hirundinaceus crissalis (*Cory*).[b] BAHIA NIGHTHAWK.

Caprimulgus hirundinaceus crissalis CORY, Field Mus. Pub., No. 182, Orn. Ser., I, No. 8, 1915, p. 301 (near Queimados, Rio de Peixe, Bahia, Brazil); *Id.*, No. 193, Zool. Ser., 1917, p. 4, in text.

Range: Southeastern Brazil, Prov. of Bahia.

3: Brazil (Queimados, Bahia), including the type.

[a] *Nyctipolus hirundinaceus hirundinaceus* (SPIX): Outer webs of at least the two outer primaries (sometimes three) without white mark. Somewhat resembles *Chordeiles acutipennis* (BODD.), but aside from generic differences it may be distinguished at a glance by the much shorter wing (wing of *C. acutipennis* is more than 150 mm.). *Setopagis parvulus* (GOULD) with which it has sometimes been confounded, may be distinguished at a glance from any of the forms of *N. hirundinaceus* by its much darker plumage and the conspicuous black and white (sometimes black and buff) scapulars (see Hellmayr, i.c., Tab. 2). The pattern of the white markings on the primaries approaches nearest to that of *N. h crissalis* (CORY) but in *parvulus* these areas are much larger and two specimens from Matto Grosso (♂ and ♀) have two buff spots on the inner web of the outer primary instead of white ones. In addition to other characters males of *S. parvulus* have a patch of white on the ends of four outer tail feathers instead of on only the two outer feathers as in *N. hirundinaceus* (see Hellmayr, l.c., p. 637, illustrations).

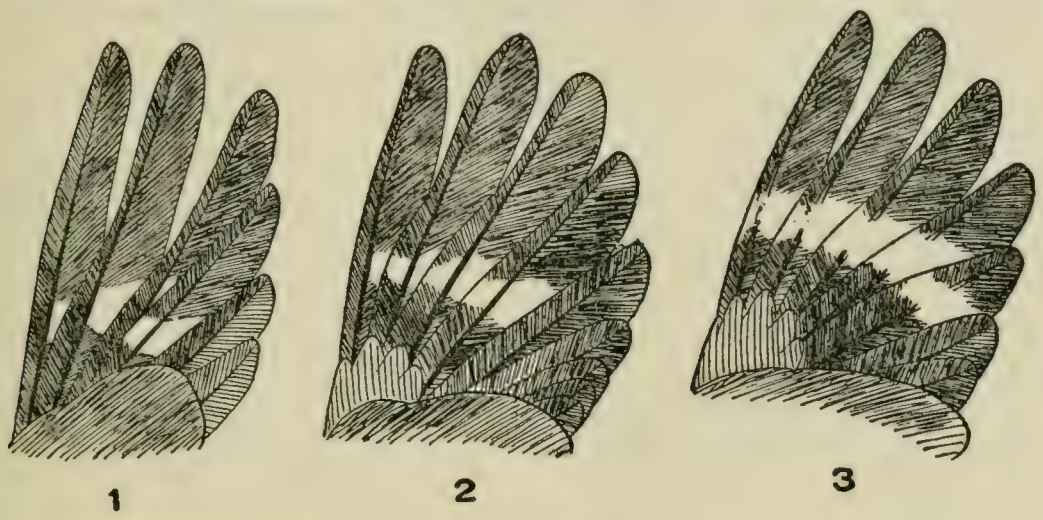
[b] *Nyctipolus hirundinaceus crissalis* CORY. Differs from *N. h. hirundinaceus* (SPIX) in slightly different coloration and in having only the first outer primary without white mark. Wing, 118; tail, 86 mm.

***Nyctipolus hirundinaceus cearae** *Cory*.[a] CEARA NIGHTHAWK.

Nyctipolus hirundinaceus cearae CORY, Field Mus. Pub., No. 193, Zool. Ser., XII, No. 1, 1917, p. 4 (Quixada, Ceara, Brazil).

Range: Northeastern Brazil (Prov. of Ceara).

10: Brazil (Quixada, Ceara, and Jua, Ceara).



Four outer primaries of

1. *Nyctipolus hirundinaceus hirundinaceus* (SPIX), from drawing and description of Spix's type given by Hellmayr (l.c.).
2. *Nyctipolus h. crissalis* (CORY). Shafts of feathers in white areas black.
3. *Nyctipolus h. cearae* CORY. Shafts of feathers in white areas white.

Suborder CYPSELI.

Family CYPSELIDÆ. Swifts.

Genus CHAETURA Stephens.

Chaetura Stephens, Shaw's Gen. Zool., XIII, 1825, p. 76 (*Hirundo pelagica* Linn.).

***Chaetura pelagica** (*Linn.*). CHIMNEY SWIFT.

[*Hirundo*] *pelagica* LINNAEUS, Syst. Nat., ed. 10, 1758, p. 192 (Carolina, U. S. A.).
Chaetura pelasgia AUDUBON, Bds. Am., Oct. ed., I, 1840, p. 164, pl. 44.
Chaetura pelagica HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 480; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 717.

Range: Eastern North America, north to south Labrador, Manitoba and Alberta (and accidental in southern Greenland), west to border

[a] *Nyctipolus hirundinaceus cearae* CORY. Similar to the male of *N. h. crissalis* (CORY), but the general plumage somewhat paler, the belly more rufous (especially in females), and the black bands on the lower belly narrower and less distinctly marked; all outer primaries with white band crossing both webs, the shafts of the feathers in the white areas being white. Wing, 120; tail, 90 mm.

of Plains in Montana, Dakota, New Mexico, etc., south to Florida and southeastern Texas, and in winter to southeastern Mexico and Guatemala.

†14: Maine 1; Massachusetts 1; Illinois 2; Wisconsin 6; Texas 3; and Mexico (Puebla, Vera Cruz) 1.

***Chaetura richmondi** *Ridgway*. RICHMOND'S SWIFT.

Chaetura richmondi RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 53 (Guayabo, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 719.

Range: Southeastern Mexico south to Costa Rica and western Panama (Chiriqui).

4: Guatemala 2; and Costa Rica 2.

***Chaetura gaumeri** *Lawrence*. GAUMER'S SWIFT.

Chaetura gaumeri LAWRENCE, Ann. N. Y. Acad. Sci., II, 1882, p. 245 (Yucatan); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 482, part; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 721.

Range: Yucatan and Cozumel Island.

3: Yucatan (Cozumel Island).

***Chaetura vauxii** (*Townsend*). VAUX'S SWIFT.

Cypselus vauxii TOWNSEND, Journ. Ac. Nat. Sci. Phila., VIII, 1839, p. 48 (Fort Vancouver, Colombia River, State of Washington).

Chaetura vauxi HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 481.

Chaetura vauxii RIDGWEY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 722.

Range: Western North America, from southern Alaska, east to Montana and Nevada, south to Lower California and Mexico to Guatemala; Honduras?

9: California 4; Mexico 1; and Guatemala 4.

***Chaetura acuta** (*Gmel.*). MARTINIQUE SWIFT.

Hirundo acuta GMELIN, Syst. Nat., I, 1789, p. 1023 (Martinique).

Chaetura acuta HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 486, CORY; Cat. West Indian Birds, 1892, p. 106–143; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 724; NOBLE, Bull. Mus. Comp. Zool., Vol. LX, 1916, p. 378.

Chaetura dominica CORY, Auk, 1886, p. 346; *Id.*, Bds. West Indies, 1889, p. 141.

Range: Islands of Guadeloupe, Dominica, Martinique, St. Vincent and Santa Lucia, Lesser Antilles.

2: St. Lucia 1; and Guadeloupe 1.

***Chaetura spinicauda** (*Temminck*). SPINE-TAILED SWIFT.

Hirundo spinicauda TEMMINCK, Catal. N. & Amlyst. Vog. Johan. Sonnenb. Galant, 1810, p. 13 (Cayenne).

Chaetura spinicauda HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 483; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 716, in key.

Range: Venezuela, the Guianas, Trinidad to eastern and central Brazil.

2: British Guiana.

Chaetura andrei andrei[a] *Berlepsch and Hartert.* ANDRE'S SWIFT.

Chaetura andrei BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 91 (Caicara, Cumana, Venezuela).

Range: Venezuela (Rio Ornioco and Cumana).

Chaetura andrei meridionalis[b] *Hellmayr.* SOUTHERN SWIFT.

Chaetura andrei meridionalis HELLMAYR, Bull. Brit. Orn. Club, XIX, 1907, p. 63 (Prov. Santiago, Argentina); HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 224; DABBENE, An. Del Mus. Nat. Buenos Aires, XVIII, 1910, p. 422.

Range: Argentina and north to central and eastern Brazil.

Chaetura chapmani chapmani[c] *Hellmayr.* CHAPMAN'S SWIFT.

Chaetura chapmani HELLMAYR, Bull. Brit. Orn. Cl., XIX, 1907, p. 62 (Trinidad).

Range: Trinidad and Cayenne.

Chaetura chapmani viridipennis[d] *Cherrie.* MATTO GROSSO SWIFT.

Chaetura chapmani viridipennis CHERRIE, Bull. Am. Mus. N. H., XVII, 1916, p. 183 (Doze Octobes, Matto Grosso, Brazil).

Range: Matto Grosso region, Brazil.

***Chaetura cinereiventris cinereiventris** *Sclater.* ASH-VENTED SWIFT.

Chaetura cinereiventris SCLATER, Cat. Am. Bds., 1862, p. 283 (Brazil); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 485.

Chaetura cinereiventris cinereiventris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 716, in key.

Range: Eastern Brazil.

1: "Brazil."

[a] *Chaetura andrei andrei* BERLEPSCH and HARTERT: Approaches *C. cinereicauda* (CASS.), but tail shorter (33 or less, instead of 40 or more); spines much shorter (barely half as long); crown of head and back deep smoky brown (instead of black glossed with steel blue); breast and abdomen deeper smoky brown and throat lighter, showing a decided contrast between these parts, while in *cinereicauda* the under surface is nearly uniform. Wing, 114–117; tail, 30–32; spines of tail, 1–2 mm.

[b] *Chaetura andrei meridionalis* HELLMAYR: Similar to *C. andrei andrei* BERL. & HART., but wings and tail much longer and bill larger. Wing, 128–135; tail, 39–42.

[c] *Chaetura chapmani chapmani* HELLMAYR: Somewhat resembles *C. pelagica* (LINN.) from the United States with similar elongated spines of the tail feathers, but differs in having the pileum and mantle glossed with steel blue (instead of sooty brown); the throat smoky brown like the rest of the under parts (not whitish) and rump and upper tail coverts rather paler. Wing, 120; tail, 48 mm.

[d] *Chaetura chapmani viridipennis* CHERRIE: Similar to *C. c. chapmani* HELLMAYR, but larger and differs in having the pileum, mantle and wings grossed with greenish (instead of steel blue). (Cherrie, l.c.).

Chaetura cinereiventris sclateri[a] (*Pelzeln*). SCLATER'S SWIFT.

Chaetura sclateri PELZELN, Orn. Bras., 1868, p. 56 (Borba).

Chaetura cinereiventris sclateri HELLMAYR, Verh. Orn. Gesell Bayern, VIII, 1908, p. 157; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 716, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 277 (Buena Vista, Colombia).

Range: Eastern Peru, eastern Ecuador and central Brazil and Colombia (Buena Vista).

Chaetura cinereiventris guianensis *Hartert.* GUIANA SWIFT.

[*Chaetura cinereiventris*] Subsp. a *Chaetura guianensis* HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 486 (British Guiana).

Range: British Guiana and Venezuela?

Chaetura cinereiventris lawrencei (*Ridgway*). LAWRENCE'S SWIFT.

Chaetura lawrencei RIDGWAY, Proc. U. S. Nat. Mus., XVI, 1893, p. 43 (Grenada, Lesser Antilles).

Chaetura cinereiventris lawrencei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 727.

Range: Islands of Grenada, Tobago, Trinidad and Margarita Island.

Chaetura cinereiventris fumosa[b] (*Salvin*). SMOKY SWIFT.

Chaetura fumosa SALVIN, Proc. Zool. Soc. Lond., 1870, p. 204 (Bugaba, Chiriqui, Panama); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 483.

Chaetura cinereiventris fumosa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 725.

Chaetura spinicauda fumosa BANGS, Proc. N. Eng. Zool. Club, IV, 1908, p. 25 (Costa Rica, crit.); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 277 (crit. Costa Rica and Colombia).

Range: Southwestern Costa Rica to northern Colombia.

Chaetura cinereiventris occidentalis[c] (*Berl. and Tacz.*). WESTERN SWIFT.

Chaetura sclateri occidentalis BERLEPSCH and TACZANOWSKI, Proc. Zool. Soc. Lond., 1883, p. 569 (Chimbo, Ecuador).

Chaetura cinereiventris occidentalis HELLMAYR, Verh. Orn. Gesell Bayern, VIII, 1908, p. 158; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 278 (Juntas de Tamana and central Andes, between Cartago and Salento, Colombia).

Range: Western Ecuador to Colombia.

[a] *Chaetura cinereiventris sclateri* (PELZ.): Nearest to *C. c. cinereiventris* SCLATER but lower part of belly, crissum and lower surface of tail feathers dark bluish ashy gray, similar to lower back and upper tail coverts.

[b] Ridgway considers this to be a race of *cinereiventris*. I have seen no specimens.

[c] *Chaetura cinereiventris occidentalis* BERLEPSCH and TACZANOWSKI: Differs from *C. c. sclateri* (PELZ.) in duller coloration of abdomen and much longer wing and tail. Wing, 112; tail, 45 mm.

Chaetura cinereiventris phaeopygos *Hellmayr*. GRAY-RUMPED SWIFT.

Chaetura cinereiventris phaeopygos HELLMAYR, Bull. Brit. Orn. Club, XVI, 1906, p. 83 (Carrillo, east Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 728.

Range: Eastern Nicaragua and Costa Rica.

Chaetura egregia *Todd*.[a] BOLIVIAN SWIFT.

Chaetura egregia TODD, Proc. Biol. Soc. Wash., XXIX, 1916, p. 97 (Rio Surutu, Bolivia).

Range: Bolivia.

***Chaetura brachyura** (*Jardine*). SHORT-TAILED SWIFT.

Acanthylis brachyura JARDINE, Ann. & Mag. N. H., 1846, p. 120 (Tobago).

Chaetura cinereicauda CASSIN, Proc. Ac. Sci. Phila., V, 1858, p. 58, pl. 13, Fig. 2.[b]

Chaetura poliura CORY, Ibis, 1886, p. 473; *Id.*, Cat. West Indian Birds, 1892, p. 106; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 484.

Chaetura brachyura CORY, Auk, 1888, p. 158; *Id.*, Bds. West Indies, 1889, p. 294; HELLMAYR, Nov. Zool., XIII, 1906, p. 37; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 728.

Range: Islands of St. Vincent, Grenada, West Indies, and Tobago, Trinidad, and Venezuela, Guiana, Brazil, east Peru and east Ecuador.

4: St. Vincent Island 3; "Brazil" 1.

Genus **CYPSELOIDES** Streubel.

Cypseloides Streubel, Isis, 1848, p. 366 (Type *Hemiprocne fumigata* Streubel).

Cypseloides rutilus (*Vieillot*). SHINING SWIFT.

Hirundo rutila VIEILLOT, Nouv. Dict. d'Hist. Nat., XIV, 1817, p. 528 (Guiana).

Cypseloides rutilus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 493; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 711, in key.

Range: Guiana and Trinidad.

***Cypseloides brunneitorques brunneitorques** (*Lafresnaye*). CHESTNUT-COLLARED SWIFT.

Chaetura brunneitorques LAFRESNAYE, Rev. Zool., 1844, p. 81 (Colombia).

Cypseloides brunneitorques HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 493.

[a] *Chaetura egregia* TODD: "Above, including wings and tail, glossy black, the lower back, rump and shorter upper tail coverts pale gray in abrupt contrast; longer upper tail coverts darker gray; under parts plain grayish brown, the throat paler and more grayish, the under tail coverts almost Chaetura drab. Wing, 120; tail, 40 mm." (Todd, l.c.).

[b] See Hellmayr, Bull. Brit. Orn. Club, XIX, 1907, p. 63.

Cypseloides brunneitorques brunneitorques RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 712; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 278 (San Antonio; Quetame, Buena Vista, Colombia).

Range: Southeastern Mexico, highlands of Guatemala and Costa Rica, Panama, Colombia and Ecuador to Peru.

1: Peru (near Otuzco).

Cypseloides brunneitorques griseifrons (*Nelson*). TEPIC CHESTNUT-COLLARED SWIFT.

Cypselus brunneitorques griseifrons NELSON, Auk, 1900, p. 262 (Santa Teresa, Tepic, W. Mexico).

Cypseloides brunneitorques griseifrons RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 714.

Range: Western Mexico (Tepic; Zacatacas; S. Durango).

Cypseloides fumigatus (*Streubel*). STREUBEL'S SWIFT.

Hemiprocne fumigata STREUBEL, Isis, 1848, p. 366 (Brazil).

Cypseloides fumigatus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 496; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 711, in key.

Range: Brazil, Ecuador, Peru, N. W. Argentine.

Cypseloides senex (*Temm.*). TEMMINCK'S SWIFT.

Cypselus senex TEMMINCK, Pl. Col., 1826, IV, p. 397 (Brazil).

Cypseloides senex HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 496; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 711, in key.

Range: Brazil, Paraguay, N. Argentine.

Cypseloides cherriei *Ridgway*. CHERRIE'S SWIFT.

Cypseloides cherriei RIDGWAY, Proc. U. S. Nat. Mus., XVI, 1893, p. 44 (Volcan de Irazu, Costa Rica); *Id.*, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 714.

Range: High Mountains of Costa Rica.

Genus **NEPHOECETES** Baird.

Nephocaetus Baird, Rep. Pacific R. R. Survey, IX, 1858, p. 142 (Type *Hirundo nigra* Gmelin). *Nephoecetes* (amendation) Baird, Rep. Pacific R. R. Survey, IX, 1858, pp. 29 and 922.

***Nephoecetes niger niger** (*Gmel.*). BLACK SWIFT.

Hirundo nigra GMELIN, Syst. Nat., I, 1789, p. 1025 — ex. *Hirundo apus dominicensis* BRISSON (San Domingo, Island of Haiti).

Cypseloides niger SCLATER, Proc. Zool. Soc. Lond., 1865, p. 615, part; CORY, Auk, 1886, p. 345, part; *Id.*, Bds. West Indies, 1889, p. 140, part.

Nephoecetes niger CORY, Bds. Haiti and San Domingo, 1885, p. 88, pl. 22.

Nephoecetes niger niger RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 704; TODD, Ann. Carnegie Mus., X, 1916, p. 244 (Isle of Pines ?).

Range: Haiti and San Domingo (Island of Haiti) and Cuba; Isle of Pines?

†19: San Domingo (La Vega), Island of Haiti.

***Nephoecetes niger jamaicensis** *Ridgway*). JAMAICAN BLACK SWIFT.

Cypseloides niger jamaicensis RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 53 (Mayfield, St. Andrews, Jamaica); WETMORE, U. S. Dept. Agriculture, Bull. No. 326, 1916, p. 74.

Cypseloides niger CORY, Auk, 1886, p. 358, part; *Id.*, Bds. West Indies, 1889, p. 140, part; HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 494, part.

Nephoecetes niger jamaicensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 705.

? *Cypseloides nigra* CHUBB, Bds. Brit. Guiana, I, 1916, p. 375.

Range: Jamaica, Porto Rico.

1: Jamaica.

***Nephoecetes niger guadeloupensis**[a] subsp. nov. GUADELOUPE BLACK SWIFT.

Range: Islands of Guadeloupe, Martinique? Dominica? St. Vincent? and British Guiana (Merume Mts.)?

†15: Guadeloupe Island, including the type specimen.

***Nephoecetes niger borealis** (*Kennerly*). NORTHERN BLACK SWIFT.

Cypselus borealis KENNERLY, Proc. Ac. Nat. Sci., Phila., IX, 1857, p. 202 (Simiahmoo Bay, State of Washington, U. S. A.).

Nephoecetes niger borealis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 707.

Range: British Colombia and western United States (from Colorado, New Mexico, etc.) south in Mexico and to highlands of Guatemala and Honduras.

1: Colorado.

Nephoecetes niger costaricensis (*Ridgway*). COSTA RICAN BLACK SWIFT.

Cypseloides niger costaricensis RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 53 (San Jose, Costa Rica).

Nephoecetes niger costaricensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 710.

Range: Highlands of Costa Rica.

[a] *Nephoecetes niger guadeloupensis* CORY: Type from Guadeloupe Island, Lesser Antilles. Female, No. 14763, Field Museum of Natural History. Collected by C. S. Winch, August 11, 1890. Similar to *N. n. jamaicensis* (RIDGWAY) from Jamaica, but averaging smaller and general color averaging darker. Wing, 144; tail, 63 (average of 8 specimens, wing, 145; tail, 60). I have not seen specimens of the Black Swift recorded from Dominica, Martinique and St. Vincent, which are probably this form, or from British Guiana (Merume Mts.) which may prove to be this or another form.

Genus **STREPTOPROCNE** Oberholser.

Streptoprocne OBERHOLSER, Proc. Biol. Soc. Wash., 1906, p. 69, in text (Type *Hirundo zonaris* Shaw).

Streptoprocne zonaris zonaris (*Shaw*). COLLARED SWIFT.

Hirundo zonaris SHAW in Miller's Cimel. Phys., 1796, p. 100, pl. 55 (no type locality given = Matto Grosso, Brazil).[a]

Chaetura zonaris HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 476, part.

Streptoprocne zonaris zonaris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 697, in key.

Chaetura zonaris zonaris HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 224.

Range: Southern Brazil, northern Argentina; Bolivia?

*Streptoprocne zonaris albicincta (*Cabanis*). NORTHERN COLLARED SWIFT.

Hemiprocne albicincta CABANIS, Journ. fur Ornith., 1862, p. 165 (Guiana).

Chaetura zonaris albicincta HELLMAYR, Nov. Zool., XIII, 1906, p. 36.

Streptoprocne zonaris albicincta RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 697; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 277 (Numerous localities in Colombia).

Range: Northern South America with Trinidad and Grenada to Costa Rica (except in higher altitudes in Colombia, Ecuador and Southward).

2: Colombia.

*Streptoprocne zonaris altissima[b] *Chapman*. COLOMBIAN COLLARED SWIFT.

Streptoprocne zonaris altissima CHAPMAN, Bull. Am. Mus. N. H., XXXIII, 1914, p. 604 (Laguneta, alt. 10,300 ft., near Quindio Pass, central Andes, Colombia); *Id.*, XXXVI, 1917, p. 276 (Laguneta, Colombia).

Range: Temperate zone in higher altitudes in Colombia, Ecuador and southward.

1: "Colombia."

*Streptoprocne zonaris mexicana *Ridgway*. MEXICAN COLLARED SWIFT.

Streptoprocne zonaris mexicana RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 53 (Rio Seco, near Cordova, Vera Cruz, east Mexico).

[a] Type locality proposed by Chapman, Bull. Am. Mus. N. H., XXXIII, 1914, p. 605.

[b] *Streptoprocne zonaris altissima* CHAPMAN: Size of *S. z. zonaris* (SHAW) from southern Brazil, but bill heavier and ridge of culmen more prominent; general color, particularly of the inner wing quills and wing coverts, greener; forehead averaging paler, the breast band broader with the terminal half rather than the terminal third, of its feathers white; edge of wing to primary coverts white; differs even more pronouncedly from *S. z. albicincta* (CABANIS) in the characters and also in its larger size.

Range: Southern Mexico, states of Vera Cruz, Oaxaca and Chiapas south through the highlands of Guatemala to British Honduras.

5: Guatemala (Tecpam).

***Streptoprocne zonaris pallidifrons** (*Hartert*). ANTILLEAN COLLARED SWIFT.

Chaetura zonaris pallidifrons HARTERT, Ibis, 1896, p. 368 (Jamaica).

Hemiprocne zonaris CORY, Auk, 1886, p. 346; *Id.*, Bds. West Indies, 1889, p. 141, part.

Streptoprocne zonaris pallidifrons RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 701.

Range: Islands of Jamaica, Cuba and Isle of Pines.

4: Jamaica.

***Streptoprocne zonaris melanotis**[a] *Peters*. SAN DOMINGO COLLARED SWIFT.

Streptoprocne zonaris melanotis PETERS, Proc. N. E. Zool. Cl., VI, 1916, p. 37 (Sosua, Santo Domingo).

Range: San Domingo, Island of Haiti, Greater Antilles.

1: San Domingo.

Streptoprocne semicollaris (*Saussure*). WHITE-NAPED SWIFT.

Acanthylis semicollaris DE SAUSSURE, Rev. et Mag. de Zool., III, 1859, p. 117 (San Joaquin, near city of Mexico).

Chaetura semicollaris HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 479.

Streptoprocne semicollaris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 702.

Range: South-central Mexico (States of Mexico and Hidualago).

***Streptoprocne biscutata** *Sclater*. BISCUTELLATED SWIFT.

Chaetura biscutata SCLATER, Proc. Zool. Soc. Lond., 1865, p. 609, pl. 34 (Ypanema southeastern Brazil); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 479.

Streptoprocne biscutata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 697, in key.

Range: Southeast Brazil.

1: South Brazil (Rio Grande).

Genus **REINARDA** Hartert.

Claudia Hartert, Cat. Bds. Brit. Mus., XVI, 1892, p. 469 (Type *Cypselus squamatus* Cassin).

Reinarda Hartert, Bull. Brit. Orn. Cl., XXXVI, 1915, p. 7 (new name to replace *Claudia*, preoccupied).

[a] *Streptoprocne zonaris melanotis* PETERS: Similar to *S. z. pallidifrons* (Hartert) from Jamaica and Cuba, but auricular and orbital regions and sides of the head much blacker (less sooty). Wing, 193; tail, 74 mm.

Reinarda squamata (*Cassin*). FORK-TAILED PALM SWIFT.

Cypselus squamata CASSIN, Proc. Ac. Nat. Sci., Phila., VI, 1853, p. 369 (British Guiana); SCLATER, Proc. Zool. Soc. Lond., 1865, p. 605, pl. 33.
Claudia squamata HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 469.

Range: Guiana, northern Brazil and eastern Peru.

Genus **TACHORNIS** Gosse.

Tachornis Gosse, Bds. Jamaica, 1847, p. 58 (Type *Tachornis phoenicobia* Gosse).

***Tachornis phoenicobia phoenicobia** (*Gosse*). JAMAICAN PALM SWIFT.

Tachornis phoenicobia GOSSE, Bds. Jamaica, 1847, p. 58 (Jamaica); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 468, part.
Cypselus phoenicobius CORY, Bds. Haiti and San Domingo, 1885, p. 87, pl. 22, Fig. 12; *Id.*, Bds. West Indies, 1889, p. 139, part.
Tachornis phoenicobia phoenicobia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 694.

Range: Island of Jamaica and Island of Haiti and San Domingo.

5: Haiti and San Domingo 4; Jamaica 1.

***Tachornis phoenicobia yradii** (*Lembeye*). CUBAN PALM SWIFT.

Cypselus yradii LEMBEYE,[a] Aves de Cuba, 1850, p. 50, pl. 7, Fig. 4 (Cuba).
Tachornis phoenicobia yradii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 695.
Tachornis iradii GUNDLACH, Journ. fur Ornith, 1860, p. 268.

Range: Island of Cuba.

1: Cuba (Parso Reale).

Genus **PANYPTILA** Cabanis.

Panyptila Cabanis Wiegm., Arch. fur Naturg., XIII, 1847, p. 345 (Type *Hirundo cayanensis* Gmel.).

***Panyptila cayanensis** (*Gmelin*). CAYENNE SWIFT.

Hirundo cayanensis GMELIN, Syst. Nat., II, 1789, p. 1024 (Cayenne).
Panyptila cayanensis HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 461; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 691.
Panyptila cayennensis RICHMOND, Auk, 1898, p. 7, pl. 1.

Range: The Guianas, Trinidad, Brazil (south to Bahia), Venezuela, Colombia, Ecuador, and Panama north to Nicaragua.

2: British Guiana.

[a] It is evident that *yradii* is a misprint as the bird was named for Sig. Iradi and the name appears, properly spelled, several times in the work.

Panyptila sancti-hieronymi *Salvin.* SAN GERONIMO SWIFT.

Panyptila sancti-hieronymi SALVIN, Proc. Zool. Soc. Lond., 1863, p. 190 (San Geronimo, Vera Paz, Guatemala); HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 462; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 692.

Range: Highlands of Guatemala.

Genus **AERONAUTES** Hartert.

Aeronautes Hartert, Cat. Bds. Brit. Mus., XVI, 1892, p. 459 (Type *Cypselus melanoleucus* Baird).

***Aeronautes melanoleucus** (*Baird*). WHITE-THROATED SWIFT.

Cypselus melanoleucus BAIRD, Proc. Ac. Nat. Sci. Phila., VII, 1854, p. 118 (San Francisco Mts., Arizona).

Aeronautes melanoleucus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 459; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 687.

Range: Western North America north to Washington and N. W. Alberta, east to South Dakota, western Nebraska, New Mexico, Colorado and western Texas, and south to Lower California and Mexico to Highlands of Guatemala.

†11: Arizona (Huachuca Mts.) 10; California 1.

Genus **MICROPUS** Meyer & Wolf.

Micropus Meyer and Wolf, Taschenb. Deutschl. Vog., I, 1810, p. 280 (Type *Hirundo apus* Linn.).

Apus (not *Aapos* Scopili 1877) Scopili, Intr. Nat. Hist., 1777, p. 483 (Type *H. apus* Linn.).

Micropus andicola andicola (*d'Orb. and Lafr.*). ANDEAN SWIFT.

Micropus andicolus D'ORBIGNY and LAFRESNAYE, Syn. Av., I, 1837, p. 70 (La Paz, Bolivia); *Id.*, d'Orb. Voy. Am., 1844, p. 358, pl. 42, Fig. 2.

Micropus andicola HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 457.

Range: Peru and Bolivia.

Micropus andicola dinellii[a] *Hartert.* DINELLI'S SWIFT.

Apus andicolus dinellii HARTERT, Bull. Brit. Orn. Cl., XXIII, 1908, p. 43 (Angosta Perchela, Jujuy, Argentina); HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 223; DABBENE, Anal. del Mus. Nat. Buenos Aires, XVIII, 1910, p. 422.

Range: Argentina.

[a] *Micropus andicola dinellii* HARTERT: Differs from *M. a. andicola* (D'ORB. & LAFR.) from Bolivia and Peru in having the under surface uniform grayish-cream color (instead of whitish) and the sides brownish black.

Micropus montivagus (*d'Orb.*). D'ORBIGNY'S SWIFT.

Cypselus montivagus D'ORBIGNY, Voy. Am. Merid., 1835–44, p. 357, pl. 42, Fig. 1 (Samaypata et Santa Cruz, Bolivia).

Micropus montivagus HARTERT, Cat. Bds. Brit. Mus., XVI, 1892, p. 458.

Range: Mountains of Bolivia and Peru.

Suborder TROCHILI.

Family TROCHILIDÆ. Humming Birds.

Genus DORYFERA Gould.

Doryfera (not *Doryphora Illiger* 1809) Gould, Proc. Zool. Soc. Lond., 1847, p. 95 (Type "*Trochilus louise* = *Trochilus ludoviciae* Bourcier and Mulsant).

Hemistephania Reichenbach, Aufz. der Colib., 1854, p. 9 (Type *Trochilus ludoviciae* Bourcier and Mulsant).

***Doryfera johannae** (*Bourcier*). BLUE-FRONTED LANCE-BILL.

Trochilus johannae BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 45 (Peru).

Doryfera johannae GOULD, Mon. Trochil., II, 1853, pl. 87; CHUBB, Bds. Brit. Guiana, I, 1916, p. 378; HARTERT, Das Tierreich, Trochil., 1900, p. 11.

Doryfera euphrosinae MULSANT and VERREAUX, Ann. Soc. Linn. Lyon, 28, 1871, p. 319; TACZANOWSKI, Proc. Zool. Soc. Lond., 1882, p. 35.

Hemistephania johannae ELLIOT, Synop. Trochil., 1879, p. 80; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 40.

Hemistephania guianensis BOUCARD, The Humming Bird, III, 1893, p. 10 (British Guiana).

Range: Peru, Ecuador, Colombia and Guiana.

4: Colombia 3; British Guiana 1.

***Doryfera ludoviciae ludoviciae** (*Bourc. and Muls.*). GREEN-FRONTED LANCE-BILL.

Trochilus ludoviciae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, X, 1847, p. 136 (Colombia).

Doryfera ludoviciae GOULD, Mon. Trochil., II, 1853, pl. 88.

Hemistephania ludoviciae ELLIOT, Syn. Trochil., 1879, pl. 81; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 39.

Doryfera ludoviciae ludoviciae CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 278 (Salento, Buena Vista, etc., Colombia).

Range: Colombia, Venezuela and Andes of Bolivia.[a]

7: Colombia.

[a] I have not seen specimens from Bolivia.

Doryfera ludoviciae rectirostris *Gould.* LONG-BILLED LANCE-BILL.

Doryfera rectirostris GOULD, Introd. Trochil., I, 1861, p. 71 (Ecuador).
Hemistephania rectirostris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 39.
Hemistephania ludoviciae rectirostris HARTERT, Nov. Zool., I, 1894, p. 44; *Id.*, Das Tierreich Trochil, 1900, p. 11.

Range: Eastern Ecuador.

***Doryfera veraguensis** (*Salvin*). VERAGUAN LANCE-BILL.

Dorifera veraguensis SALVIN, Proc. Zool. Soc. Lond., 1867, p. 154 (Cordillera de Toté, Veragua, Panama).
Doryfera veraguensis GOULD, Mon. Trochil. Suppl., 1883, pl. 22.
Hemistephania veraguensis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 40; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 343.

Range: Western Panama and Costa Rica.

3: Panama (Chiriqui) 1; and Costa Rica (Coliblanca) 2.

Genus **ANDRODON** Gould.

Androdon Gould, Ann. & Mag. Nat. Hist., XII, 1863, p. 247 (Type *Androdon aequatorialis* Gould).

***Androdon aequatorialis** *Gould.* ECUADORIAN TOOTH-BILL.

Androdon aequatorialis GOULD, Ann. & Mag. Nat. Hist., XII, 1863, p. 247 (Ecuador); *Id.*, Mon. Trochil. Suppl., 1881, pl. 1; ELLIOTT, Syn. Trochil., 1879, p. 4; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 38; HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1176 (W. Colombia); CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 279 (W. Colombia).

Range: Western Ecuador and Colombia.

1: Ecuador.

Genus **RHAMPHODON** Lesson.

Rhamphodon Lesson, Hist. Nat. Col., 1831, p. 18 (Type *R. maculatum* = *Trochilus naevius* Dumont).

***Rhamphodon naevius** *Dumont.* SAW-BILL.

Trochilus naevius DUMONT, Dict. Sci. Nat., X, 1818, p. 55 (Mountains of Corcovado, southeastern Brazil).
Grypus ruficollis SPIX, Av. Bras., I, 1824, p. 79, pl. 80, Fig. 3.
Grypus naevius GOULD, Mon. Trochil., I, 1852, pl. 1.
Rhamphodon naevius SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 37; HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 150.

Range: Southeastern Brazil (Spirito Santo and Rio Janerio to Santa Catharina).

2: Brazil.

Genus **THRENETES** Gould.

Threnetes Gould, Mon. Trochil., pt. IV, 1852, pl. 13 (Type *Trochilus leucurus* Linn.).

***Threnetes antoniae** (*Bourc. and Muls.*). SOOTY BARBED-THROAT.

Trochilus antoniae BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, IX, 1846, p. 329 (Cayenne).

Threnetes antoniae GOULD, Mon. Trochil., I, 1852, pl. 15; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 266.

Range: French Guiana.

1: French Guiana.

***Threnetes leucurus leucurus** (*Linn.*). WHITE-TAILED BARBED-THROAT.

Trochilus leucurus LINNAEUS, Syst. Nat., I, ed. 2, 1766, p. 190 ("America Meridionali" = Surinam).[a]

Threnetes leucurus GOULD, Mon. Trochil., I, 1852, pl. 13; SALVIN, Cat. Bds. Brit. Mus., XVI., 1892, p. 264; HELLMAYR, Nov. Zool., 1910, p. 373; CHUBB, Bds. Brit., Guiana, I, 1916, p. 380.

Range: Dutch Guiana, British Guiana and north Brazil (Teffe?).

2: "Colombia"?

***Threnetes leucurus rufigastra** *Cory*.[b] PERUVIAN BARBED-THROAT.

Threnetes leucurus rufigastra CORY, Field Mus. Pub., No. 183, Orn. Ser. I, No. 9, 1915, p. 303 (Moyobamba, Peru).

Range: Northern Peru.

1: Peru (Moyobamba) the type.

***Threnetes cervinicauda** *Gould*. FAWN-TAILED BARBED-THROAT.

Threnetes cervinicauda GOULD, Proc. Zool. Soc. Lond., 1854, p. 109 (Quijos, Ecuador); *Id.*, Mon. Trochil., I, 1861, pl. 14; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 265; HELLMAYR, Nov. Zool., XIII, 1906, p. 374.

Range: East Ecuador, Colombia, Peru, Bolivia, northeastern Brazil (Para?).

1: Colombia.

***Threnetes ruckeri ruckeri** (*Bourcier*). RUCKER'S BARBED-THROAT.

Trochilus ruckeri BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 46 (Locality unknown = Panama).[c]

Glaucis ruckeri GOULD, Mon. Trochil., I, 1851, pl. 11; *Id.*, Introd. Trochil., 1861, p. 3 (Veragua, Panama).

[a] Type locality designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 105.

[b] *Threnetes leucurus rufigastra* Cory: Similar to *T. l. leucurus* (Linn.) from Guiana, but differs in having the sides, flanks and abdomen decidedly more brownish buff and back more bronzy green.

[c] I designate Veragua, Panama.

Threnetes ruckeri SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 265; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 336.

Range: Panama and northwestern Colombia north to Nicaragua; Guatemala?

3: Panama 1; Nicaragua 2.

***Threnetes ruckeri fraseri** (*Gould*). FRASER'S BARBED-THROAT.

Glaucis fraseri GOULD, Mon. Trochil., I, 1861, pl. 12 (Esmeraldas, northwestern Ecuador).

Threnetes fraseri HARTERT, Nov. Zool., V, 1898, p. 493; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 266.

Threnetes ruckeri fraseri HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1177; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 279 (Barbacoas, Colombia).

Range: Ecuador and western Colombia.

2: Ecuador (Pambilor).

Threnetes ruckeri venezuelensis *Cory*.[a] VENEZUELAN BARBED-THROAT.

Threnetes fraseri venezuelensis CORY, Field Mus. Pub., No. 167, Orn. Ser., I, No. 7, 1913, p. 286 (Orope, Zulia, Venezuela).

Range: Low-forested region of western Venezuela.

1: Venezuela (Orope), the type.

Threnetes longicauda *Cory*.[b] LONG-TAILED BARBED-THROAT.

Threnetes longicauda CORY, Field Mus. Pub., No. 182, Orn. Ser., I, No. 8, 1915, p. 301 (Jua, near Iguatu, Ceara, Brazil).

Range: Northeastern Brazil.

1: Brazil (Jua, Ceara), the type.

Genus GLAUCIS Boie.

Glaucis Boie, Isis, 1831, p. 545 (Type *Trochilus hirsutus* Gmelin).

***Glaucis hirsuta hirsuta** (*Gmel.*). HAIRY HERMIT.

Trochilus hirsutus GMELIN, Syst. Nat., I, 1788, p. 490 (Brazil).

Glaucis hirsuta GOULD, Mon. Trochil., I, 1861, pl. 5; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 41, part.

[a] *Threnetes ruckeri venezuelensis* (CORY): Similar to *Threnetes r. fraseri* (GOULD) from Colombia, but slightly darker and having the upper parts golden-bronzy green (much less green than in *fraseri*) and the under parts averaging more buffy gray.

[b] *Threnetes longicauda* CORY: Crown dull grayish brown, becoming rufous brown on the occiput and nape; upper parts dull grayish green mixed with glittering green (probably clear green in adult plumage); lores and ear coverts black; chin and middle of upper throat blackish; rest of throat ochraceous cinnamon buff; breast and underparts grayish buff; wings purplish brown; tail much graduated and long; middle of tail feathers bronzy green with narrow white tips and a subterminal dusky area; four outer tail feathers bronzy green on basal portion for more than half their length and very broadly tipped with white; upper mandible black, lower mandible pale, the terminal part black. Wing, 48; middle tail feather, 48; outer tail feather 26 mm.

Glaucis mazeppa LESSON, Nat. Hist. Col., 1831, p. 18, pl. 3 (Guiana).
Glaucis lanceolata GOULD, Mon. Trochil., I, 1861, pl. 8 (Para).
Glaucis rojaci BOUCARD, Gen. Hum. Bds., 1895, p. 364 (Caracas).
Glaucis roraimae BOUCARD, Gen. Hum. Bds., 1895, p. 364 (Mt. Roraima).
Glaucis hirsuta hirsuta RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 330; HELLMAYR and SEILERN, Arch. fur Naturg., 1912, p. 136.

Range: Venezuela, the Guianas and nearly the whole of Brazil.

6: Brazil 2; Venezuela 1; and British Guiana 3.

***Glaucis hirsuta insularum**[a] *Hellmayr and Seilern.* TRINIDAD HERMIT.

Glaucis hirsuta insularum HELLMAYR and SEILERN, Verh. Orn. Ges. Bayern, II, 1913, No. 4, p. 316 (Caparo, Trinidad).

Range: Islands of Trinidad, Tobago and Grenada.

8: Grenada, W. I.

***Glaucis hirsuta fusca**[b] *Cory.* DUSKY HAIRY HERMIT.

Glaucis hirsuta fusca CORY, Field Mus. Pub., No. 167, Orn. Ser. I, No. 7, 1913, p. 286 (Orope, Zulia, western Venezuela).

Range: Heavily forested low country, interior of western Venezuela.

2: Venezuela (Orope), including the type.

***Glaucis hirsuta affinis** (*Lawrence*). LESSER HAIRY HERMIT.

Glaucis affinis LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, pp. 261–266 (Ecuador).
Glaucis colombiana BOUCARD, Gen. Hum. Bds., 1895, p. 402 (Rio Dagua, W. Colombia).
Glaucis melanura GOULD, Proc. Zool. Soc. Lond., 1860, p. 304.
Glaucis hirsuta affinis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 333.

Range: Panama, south through Colombia (Santa Marta, Bogota, etc.) to Ecuador, eastern Peru and upper Rio Negro.

8: Peru (Moyobamba) 2; Ecuador 1; Colombia 4; Panama 1.

Glaucis hirsuta aenea (*Lawrence*). BRONZY LEAST HERMIT.

Glaucis aeneus LAWRENCE, Proc. Ac. Nat. Sci. Phila., 1867, p. 232 (Costa Rica).
Glaucis hirsuta aenea HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1178, part; RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 334.

Range: Eastern Costa Rica and eastern Nicaragua.

Glaucis dohrni (*Bourc. and Muls.*). DOHRN'S HERMIT.

Trochilus dohrni BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, (2), IV, 1852, p. 139 (Ecuador = S. E. Brazil).

[a] *Glaucis hirsuta insularum* HELLMAYR & SEILERN: Similar to *G. h. hirsuta* (GMEL.), but larger.

[b] *Glaucis hirsuta fusca* CORY: Similar to *G. h. hirsuta* (GMEL.), but green of upper parts darker and under parts much darker, less rufous and more dusky.

Glaucis dohrni GOULD, Mon. Trochil., I, 1861, pl. 10; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 43.
Grypus spixi GOULD, Proc. Zool. Soc. Lond., 1860, p. 304.
G[laucis] dohrni HARTERT, Das Tierreich Troch., 1900, p. 15.

Range: Southeastern Brazil.

Genus **PHAETHORNIS** Swainson.

Phaethornis Swainson, Zool. Journ., III, 1827, p. 357 (Type *Trochilus superciliosus* Linnaeus).

*Phaethornis guyi guyi *Lesson*. GUY'S HERMIT.

Trochilus guy LESSON, Hist. Nat. Troch., 1829, p. 119, pl. 44 (Venezuela).
Phaethornis guyi GOULD, Mon. Trochil., I, 1852, pl. 26; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 268.
Phaethornis guy (typicus) HARTERT, Das Tierreich Trochil., 1900, p. 19 (Monog).
Phaethornis guyi guyi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 315, in key.

Range: Venezuela and Trinidad.

3: Trinidad 2; and Venezuela ?1.

*Phaethornis guyi coruscus *Bangs*. BANG'S HERMIT.

Phaethornis guy coruscus BANGS, Proc. N. E. Zool. Club, III, 1902, p. 26 (Boquete Chiriqui, Panama).
Phaethornis guyi coruscus RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 317.

Range: Panama and Costa Rica.

4: Costa Rica.

Phaethornis guyi emiliae (*Bourc. and Muls.*). EMILY'S HERMIT.

Trochilus emiliae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 317 (Bogotá, Colombia).
Phaethornis emiliae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 368, part.
Phaethornis guyi emiliae HARTERT, Nov. Zool., I, 1894, p. 54; RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 316, in key; CHAPMAN, Bull. Am. Mus. N. H. ,XXXVI, 1917, p. 281 (Colombia, several localities).

Range: Colombia, Ecuador? Peru?

8: Colombia 6; Ecuador (from Boucard Coll.) 1; and Venezuela ("Merida," from Boucard Coll.) 1.

Phaethornis yaruqui yaruqui (*Bourc.*). YARUQUIAN HERMIT.

Trochilus yaruqui BOUCIER, Comp. Rend., XXXII, 1851, p. 187 (Hot forested region near Yaruqui, western Ecuador).
Phaethornis yaruqui GOULD, Mon. Trochil., I, 1852, pl. 27; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 269; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 312.

Range: Western Ecuador.

2: Ecuador (S. Javien).

Phaethornis yaruqui sancti-johannis[a] *Hellmayr*. ST. JOHANNA'S HERMIT.

Phaethornis yaruqui sancti-johannis HELLMAYR, Bull. Brit. Orn. Club, XXVII, 1911, p. 92 (West Colombia); HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1178; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 281 (Western Colombia, several localities).

Range: Lowlands of western Colombia.

Phaethornis superciliosus superciliosus[b] (*Linn.*). GUIANA HERMIT.

Trochilus superciliosus LINNAEUS, Syst. Nat., I, ed. 12, 1766, p. 189 ("Cayenne").[c]

Polytmus cayanensis longicaudus BRISSON, Orn., III, 1760, p. 686, pl. 35, Fig. 5.

Phaethornis fraterculus GOULD, Mon. Trochil., I, 1861, pl. 18 ("Cayenne"); *Id.*, Introd. Trochil., p. 42.

Phaethornis guianensis BOUCARD, Humming Birds, I, 1891, p. 17 (British Guiana).[d]

Phaethornis superciliosus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 270, part; CHUBB, Bds. British Guiana, I, 1916.

Range: British Guiana, Venezuela, and northwestern Brazil; French Guiana?

3: British Guiana 2; North Brazil (base of Serra da Lua Mts., near Boa Vista, Rio Branco) 1.

Phaethornis superciliosus moorei (*Lawrence*).[e] MOORE'S HERMIT.

Phaethornis moorei LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VI, 1858, p. 258 (Ecuador).

Phaethornis consobrinus (nom. nud.) (Bourcier, MS.) REICHENBACH, Aufz. d. Colib., 1853, p. 17.

[a] *Phaethornis yaruqui sancti-johannis* HELLMAYR: According to Hellmayr it differs from *P. y. yaruqui* (BOURC.) in having shorter bill, broader and darker postocular and malar streaks, median throat stripe wider and confluent with the smoke-gray abdomen, which is only slightly spotted with metallic green; whereas in *P. y. yaruqui* the under parts are largely metallic green and the throat with a median stripe of sooty blackish. Chapman (l.c.) states that it differs chiefly in its grayer under parts.

[b] As stated by Hartert (Nov. Zool., IV, 1897, p. 29) *Phaethornis superciliosus* (LINN.) based upon *Polytmus cayanensis longicaudus* BRISSON clearly refers to the smaller bird with tawny and buff colored throat and breast, having a distinctly marked throat and bill about 1½ inches long (slightly less according to Brisson). Audebert and Vieillot, 1802, figured a bird with larger and longer bill; dusky marked throat, and more grayish under parts (which was later described by Nordmann as *malaris*) evidently supposing it to *superciliosus* LINN. and he was followed by Lesson, 1831, and later by Gould. Gould evidently supposing that Nordmann had merely redescribed *superciliosus* and having specimens from "Guiana," which were quite different, again described the smaller and more buffy bird as *fraterculus*.

[c] I strongly suspect that the type of *P. superciliosus* LINN. came from British Guiana.

[d] I have examined specimens identified as *guianensis* by Boucard.

[e] *Phaethornis superciliosus moorei* (LAWR.): Differs from *P. s. superciliosus* (LINN.) from Guiana, in smaller size; bill shorter and more slender; gular stripe more distinct; under parts less rufescent.

Phaethornis fraterculus moorei CHAPMAN, Bull. Am. N. H., XXXVI, 1917, p. 281 (La Morilia; Florencia; S. E. Colombia).

P[haethornis] superciliosus moorei HARTERT, Das Tierreich Trochil., 1900, p.20.

Range: Eastern Ecuador, eastern Peru and southeastern Colombia.

1: "Colombia."

Phaethornis superciliosus ochraceiventris[a] (*Hellmayr*). OCHRE-VENTED HERMIT.

Phaethornis affinis ochraceiventris HELLMAYR, Bull. Brit. Orn. Club, XI, 1907, p. 54 (Humaytha, on left bank of the Rio Madeira, western Brazil).

Phaethornis ochraceiventris HELLMAYR, Nov. Zool., XIV, 1907, p. 393; *Id.*, XVII, 1910, p. 373.

Range: Madeira Valley and upper Amazon region, western Brazil.

Phaethornis malaris malaris[b] *Nordmann.* NORDMANN'S HERMIT.

Trochilus malaris NORDMANN, Erman's Reise, 1835, p. 2–16 (Cayenne).

Phaethornis malaris HARTERT, Nov. Zool., IV, 1897, p. 529, crit; *Id.*, Das Tierreich Trochil, 1900, p. 26.

Trochilus superciliosus AUDERBERT and VIEILLOT, Ois. Dor., 1802, 1, pl. 17; LESSON, Hist. Nat. Col., 1830–31, p. 35, pl. 6.

Phaethornis superciliosus GOULD, Mon. Trochil., 1858, 1, pl. 17.

Range: French Guiana.

1: Cayenne.

Phaethornis malaris mulleri[c] (*Hellmayr*). MULLER'S HERMIT.

Phaethornis superciliosus mulleri HELLMAYR, Bull. Brit. Orn. Club, XXVII, 1911, p. 93 (Peixe-Boi, near Para, northeastern Brazil).

P. affinis moorei (errore) HELLMAYR, Nov. Zool., XIII, 1906, p. 374 (S. Antonio do Prata, Para).

Range: Northeastern Brazil.

***Phaethornis longirostirs longirostris** (*Delattre*). GUATEMALAN HERMIT.

Ornismya longirostris DELATTRE, Echo de Monde Savante, No. 45, 1843, Col. 1070 (Guatemala).

Phaethornis cephalus GOULD, Mon. Trochil., I, 1861, pl. 19, part (Guatemala).

Phaethornis longirostris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 273, part.

[a] *Phaethornis superciliosus ochraceiventris* HELLMAYR: Nearest to *P. s. moorei* LAWR., but differs in having the whole lower surface from the fore neck to under tail coverts deep ochraceous buff and the apical margins of the four outer rectrices pale cinnamon (not buff); under tail coverts ochraceous.

[b] *Phaethornis malaris* (NORDMANN): Differs from *P. superciliosus* in larger size; much darker chin and upper throat; decidedly longer bill and more grayish under parts.

[c] *Phaethornis malaris mulleri* (HELLMAYR): Approaches *P. s. moorei*, but differs in having the median throat stripe more clearly defined and whitish buff; and the foreneck and breast grayish (not buff); the abdomen and edges of feathers on rump and the upper tail coverts paler buff.

Phaethornis longirostris longirostris RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 319.

Range: Guatemala to northern Honduras.

3: Guatemala.

***Phaethornis longirostris cephalus** (*Bourc. and Muls.*). NICARAGUAN HERMIT.

Trochilus cephalus BOURCIER and MULSANT, Rev. Zool., 1848, p. 269 (Rio San Juan, Nicaragua).

Phaethornis longirostris cephalus RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 321.

Phaethornis panamensis BOUCARD, The Humming Bird, II, 1892, p. 83 (Panama).

Range: Southern Honduras to Panama.

5: Nicaragua 2; Costa Rica 3.

Phaethornis longirostirs veraecrucis *Ridgway*. VERA CRUZ HERMIT.

Phaethornis longirostris veraecrucis RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 54 (Buena Vista, Vera Cruz, Mexico); *Id.*, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 323.

Range: Southeastern Mexico (Vera Cruz, eastern Oaxaca, Tobasco, etc.).

Phaethornis longirostris mexicanus (*Hartert*). GUERRERO HERMIT.

Phaethornis mexicanus HARTERT, Ibis, 1897, p. 425 (Dos Arroyos, near Chilpancingo, Guerrero, southwestern Mexico).

Phaethornis longirostris mexicanus OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 312, in text; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 323.

Range: Southwestern Mexico (states of Guerrero and western Oaxaca).

Phaethornis longirostris susurrus[a] *Bangs*. SANTA MARTA HERMIT.

Phaethornis longirostris susurrus BANGS, Proc. N. E. Zool. Club, II, 1901, p. 64 (Chiru Sierra Nevada de Santa Marta, Colombia).

Phaethornis susurrus BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 107, No. 1013.

Range: Colombia.

Phaethornis longirostris baroni[b] *Hartert*. BARON'S HERMIT.

Phaethornis baroni HARTERT, Ibis, 1897, p. 426 (Naranjal, Rio Pescado, western Ecuador).

[a] *Phaethornis longirostris susurrus* BANGS: Differs from *P. l. longirostris* (DELATTRE) in being larger with longer bill and wing; gular stripe wider and strong buffy yellow (not pale buff); malar stripe buff yellow and the dusky areas between the gular and malar stripes much less marked, the whole throat being strongly buff yellow; shorter rectrices more deeply tipped with buff.

[b] *Phaethornis longirostris baroni* HARTERT: Differs from *P. l. longirostris* (DELATTRE) in its shorter wings and tail and having tips of outer rectrices bordered with pure white; abdomen paler and not so buff; under tail coverts almost pure white; wing, about 58; tail, about 63 mm.

Phaethornis longirostris baroni OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, pp. 312–313, in text.

Range: Western Ecuador.

Phaethornis longirostris bolivianus *Gould.* BOLIVIAN HERMIT.

Phaethornis boliviana GOULD, Introd. Trochil., 1861, p. 42 (Bolivia).

Phaethornis bolivianus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 273.

Phaethornis longirostris bolivianus OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 313, in text.

Range: Bolivia; Peru?

Phaethornis fuliginosus[a] *Simon.* SOOTY HERMIT.

Phaethornis fuliginosus SIMON, Proc. III, Intern. Congress Orn. Paris, 1901, p. 201 (Colombia); ORNIS, XI, 1901, p. 201.

Range: Colombia.

Phaethornis fumosus[b] (*Schlüter*). SCHLÜTER'S HERMIT.

Phaetornis fuliginosus (nec. Simon, 1901) SCHLÜTER, Falco, Halle, IX, 1913, No. 2, p. 32 (Colobia, Bogota?).

Phaetornis fumosus SCHLÜTER (new name for *P. fuliginosus* Schlüter, preoccupied) FALCO, Halle, XI, 1915, p. 21.

Range: Colombia.

Phaethornis hispidus hispidus *Gould.* D'OSERY'S HERMIT.

Trochilus hispidus GOULD, Proc. Zool. Soc. Lond., 1846, p. 90 ("Peru?" errore = Bolivia).

Phaethornis hispidus GOULD, Mon. Trochil., I, 1852, pl. 22; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 273; BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 81; HELLMAYR, Nov. Zool., XIV, 1907, p. 394.

Phaethornis hispidus hispidus HELLMAYR, Nov. Zool., XVII, 1910, p. 373.

Range: Bolivia, Peru and western Brazil.

[a] *Phaethornis fuliginosus* SIMON: Somewhat resembles *Phaethornis anthrophilus* (BOURC.), but differs in having the entire throat and chin blackish with the feathers very delicately bordered by obscure gray, the breast becoming gradually paler and the abdomen whiter, tinged with faun (without grayish); the head lacks the clear bands above and below the eye, but with a mark of black on each side of the eye, which is more intense than the black of the throat; two outer rectrices on each side entirely black (not bordered with white). Wing, 58; middle rectrices, 50; bill, 34.5 mm.

[b] *Phaethornis fumosus* (SCHLÜTER): Upper parts dark bronze green, clouded with grayish borders to the feathers; upper tail coverts copper bronze green; top of head gray, slightly metallic; under parts uniform "rufbraun-grau," slightly metallic; under tail coverts more strongly metallic; a brownish black streak under and behind the eye; middle pair (longest) tail feathers dark bronze green with extensive clear gray tips; the next pair bronze green at bases, then blackish gray with grayish tips; rest of tail feathers similar but without the extensive gray tips. Wing, 61; tail, 75; bill, 31 mm. The characters given for the under parts distinguish it from all known species of the genus. (See translation of original description).

***Phaethornis hispidus oseryi**[a] (*Bourcier and Mulsant*). LAWRENCE'S HERMIT.

Trochilus oseryi BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, (2), IV, 1852 ,p. 139 (Pastoza, Ecuador).

Phaethornis villosus LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VI, 1858, p. 258 (Ecuador).[b]

P[haethornis] hispidus villosus HELLMAYR, Nov. Zool., XVII, 1910, p. 374, in text.

Phaethornis hispidus oseryi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 282, crit.

Range: Ecuador, Venezuela and Colombia.

2: "Colombia."

***Phaethornis syrmatophorus syrmatophorus** *Gould*. TRAIN-BEARING HERMIT.

Phaethornis syrmatophorus GOULD, Contr. Orn., 1851, p. 139 (Quito, Ecuador); *Id.*, Mon. Trochil., I, 1852, pl. 20; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 274, part.

Phaethornis syrmatophorus syrmatophorus HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1179; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 282.

Phaethornis berlepshi HARTERT, Nov, Zool., 1894, p. 56.

Range: West Ecuador and west Colombia.

1: Colombia?

Phaethornis syrmatophorus columbianus[c] *Boucard*. COLOMBIAN HERMIT.

Phaethornis columbianus BOUCARD, The Humming Bird, I, 1891, p. 17 (Bogota, Colombia).

P[haethornis]s. columbianus HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1180, in text.

Phaethornis syrmatophorus columbianus CHAPMAN, Bull. Am. Mus., N. H., XXXVI, 1917, p. 282 (La Palma, Colombia).

Range: Eastern Ecuador and eastern Colombia.

***Phaethornis anthophilus anthophilus** (*Bourc.*). PALLED HERMIT.

Trochilus anthophilus BOURC., Rev. Zool., VI, 1843, p. 71 (Upper Magdalena Valley, Colombia).

[a] According to Chapman (l.c.) *Phaethornis h. villosus* LAWRENCE (Napo) is a synonym of *P. h. oseryi* (BOURC. & MULS.) (Pastoya) and the race differs from *P. hispidus hispidus* GOULD from Bolivia in "smaller size and somewhat paler under parts."

[b] *Phaethornis hispidus villosus* (LAWRENCE): Described by Lawrence as differing from *P. h. hispidus* GOULD chiefly in having the edges to the upper tail coverts and feathers of the rump buff, not hoary or whitish as in adults of *P. h. hispidus*.

[c] *Phaethornis syrmatophorus columbianus* BOUCARD: Differs from *P. s. syrmatophorus* GOULD in having the malar streak and a stripe down middle of under parts white (not with white stripe restricted to the throat, the malar streak buff, and the rest of the under parts ochraceous buff as in typical *P. s. syrmatophorus*); the rump and upper tail coverts also differ in being uniform ochraceous buff.

Phaethornis anthophilus GOULD, Mon. Trochil., I, 1854, pl. 24; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 275; HELLMAYR and SEILERN, Arch. für. Naturg., 1912, p. 137; BANGS, Proc. Biol. Soc. Wash., XII, 1898, p. 135 (Santa Marta).
Phaethornis anthophilus anthophilus RIDGWAY, Bull. U. S. Nat. Mus. No. 50,, V, 1911, p. 316, in key.

Range: North and central Colombia and Venezuela.

6: Colombia.

Phaethornis anthophilus hyalinus (*Bangs*). ISLAND HERMIT.

Phaethornis hyalinus BANGS, Auk, 1901, p. 27 (San Miguel Island, Bay of Panama).
Phaethornis anthophilus hyalinus RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 324.

Range: San Miguel Island, Bay of Panama.

***Phaethornis anthophilus fuscicapillus**[a] *Cory*. DARKED-CROWNED HERMIT.

Phaethornis anthophilus fuscicapillus CORY, Field Mus. Pub., No. 167, Orn. Ser., I, No. 7, 1913, p. 288 (Orope, Zulia, western Venezuela).

Range: Low-heavily forested region south of Lake Maracaibo, western Venezuela.

5: (Including the type) Venezuela (Orope 3, La Braca, Tachira 1); and Colombia (Cucuta, near Venezuelan line) 1.[b]

***Phaethornis eurynome** (*Lesson*). BRAZILIAN HERMIT.

Trochilus eurynome LESSON, Hist. Nat. Troch., 1831, p. 91, pl. 31 (Brazil).
Phaethornis eurynome GOULD, Mon. Trochil., I, 1849, pl. 16; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 276; ELLIOT, Syn. Trochil., 1879, p. 17.

Range: Southern Brazil, Paraguay, N. E. Argentine.

1: "Brazil."

***Phaethornis squalidus** (*Temm.*). MEDIUM HERMIT.

Trochilus squalidus TEMMINCK, Pl. Col., IV, 1824, p. 120, Fig. 1 (Brazil).
Phaethornis intermedius GOULD, Mon. Trochil., I, 1853, p. 30.
Phaethornis squalidus ELLIOT, Syn. Trochil., 1879, p. 17; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 276; HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 150.

Range: Southeastern Brazil.

1: "Brazil."

[a] *Phaethornis anthophilus fuscicapillus* CORY: Similar to *P. anthophilus anthophilus* (BOURC.) but crown darker (blackish brown); throat streaks darker and heavier; breast darker; back darker green and tips of the feathers on lower back and rump more rufous buff.

[b] The specimen from Cucuta is not typical and appears to be intermediate between *A. a. anthophilus* and *P. a. fuscicapillus*.

Phaethornis subochraceous[a] *Todd.* BOLIVIAN HERMIT.

Phaethornis subochraceous TODD, Proc. Biol. Soc. Wash., XXVIII, 1915, p. 170, (Santa Cruz de la Sierra, Bolivia).

Range: Bolivia.

Phaethornis gounellei[b] *Boucard.* GOUNELL'S HERMIT.

Phaethornis gounellei BOUCARD, The Humming Bird, I, 1891, p. 17 ("Brazilia").
P[haethornis] gounellei HARTERT, Ibis, 1897, p. 427, in text.

Range: Eastern Brazil.

***Phaethornis augusti** (*Bourc.*). SALLE'S HERMIT.

Trochilus augusti BOURCIER, Ann. Sc. Phys. et Nat .Lyon, X, 1847, p. 623 (Caracas, Venezuela).
Phaethornis augusti GOULD, Mon. Trochil., I, 1854, pl. 29; ELLIOT, Syn. Trochil., 1879, p. 14; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 277; HELLMAYR and SEILERN, Arch. für Naturg., 1912, p. 138, in text; CHUBB, Bds. Brit. Guiana, I, 1916, p. 384.

Range: Colombia, Venezuela and British Guiana.

7: Venezuela 5; British Guiana 2.

***Phaethornis pretrii** (*Less. and Delatt*). PRETRE'S HERMIT.

Trochilus pretrii LESSON and DELATTRE, Rev. Zool., 1839, p. 20 (Minas Geraes, Brazil).
Trochilus superciliosus (not of Linnaeus) WIED, Beitr. Naturg. Bras., 4, I, 1832, p. 116 (Bahia).
Phaethornis affinis PELZELN, Sitzungsher. Acad. Wien., XX, 1856, p. 157 (new name for *T. superciliosus* Wied).
Phaethornis pretrii GOULD, Mon. Trochil., I, 1854, pl. 28; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 277.
Phaethornis superciliosus BURM., Syst. Ueb., II, p. 323.

Range: Central and eastern Brazil.

2: Brazil (Rio Preto, Bahia 1, "Brazil" 1).

Phaethornis bourcieri (*Lesson*). BOURCIER'S HERMIT.

Trochilus bourcieri LESSON, Hist. Nat. Trochil., 1832, p. 62, pl. 18 ("Bresil").
Phaethornis bourcieri GOULD, Mon. Trochil., I, 1853, pl. 25; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 278; CHUBB, Bds. Brit. Guiana, I, 1916, p. 385.

Range: Northern Brazil, Guiana, Ecuador and Peru.

1: British Guiana (Merume Mts.).

[a] *Phaethornis subochraceous* TODD: "Somewhat resembling *Phaethornis squalidus* (TEMM.), but more cinnamomeus below and rectrices with white tips." (Todd, l.c.).

[b] *Phaethornis gounelli* BOUCARD: "Head dark brown; back, bronze green; central rectrices, rather long, bronze green tipped with white; under surface, throat and breast, pale buff with black line in the middle of the chin; abdomen gray; flanks, rufous; all the feathers of the tail, bronze green, black and white in about the same proportions; wings, purple brown; bill, black, curved. Wing, 2 inches; bill, 1 inch, tail, 2 inches." (Boucard, l.c.).

Phaethornis philippi (*Bourc.*). DE PHILIPPI'S HERMIT.

Trochilus philippii BOURCIER, Ann. Sc. Phys. et Nat. Lyon, X, 1847, p. 623 (Bolivia).

Phaethornis philippii GOULD, Mon. Trochil., I, 1853, pl. 21; ELLIOT, Syn. Trochil., 1879, p. 12; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 279; HELLMAYR, Nov. Zool., XVII, 1910, p. 374; *Id.*, XIV, 1907, pp. 74, 394; SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 190 (Rio Purus).

Range: Bolivia, eastern Peru and northwestern Brazil.

***Phaethornis rupurumi rupurumi** *Boucard.* BOUCARD'S HERMIT.

Phaethornis rupurumii BOUCARD, The Humming Bird, II, 1892, p. 1 (Rupurumi River, British Guiana); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 663; BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 81; CHUBB, Bds. Brit. Guiana, I, 1916, p. 385.

Range: British Guiana and Orinoco Region, Venezuela, and extreme northern Brazil in upper Rio Branco region.

5: Brazil (Base of Serra da Lua, near Boa Vista, Upper Rio Branco) 4; and British Guiana (Rupurumi River) 1; (this specimen is labelled in Boucard's handwriting "Type of species").

Phaethornis rupurumi amazonicus[a] *Hellmayr.* SANTAREM HERMIT.

Phaethornis rupurumi amazonicus HELLMAYR, Bull. Brit. Orn. Club, XVI, 1906, p. 82 (Itartuba, near Santarem, Lower Amazon, Brazil); SNETHLAGE, Bol, Mus. Goeldi, VIII, 1914, p. 191 (Rio Tapajoz, Arunduba, Monte Alegre, etc.).

Range: Northeastern Brazil.

***Phaethornis griseogularis** (*Gould*). GRAY-THROATED HERMIT.

Phaethornis griseogularis GOULD, Proc. Zool. Soc. Lond., 1851, p. 115 (Colombia). *Id.*, Mon. Trochil., I, 1851, pl. 36; ELLIOT, Syn. Trochil., 1879, p. 18; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 313.

Pygmornis griseogularis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 280.

Range: Colombia, Ecuador and Peru.

2 specimens: Colombia.

***Phaethornis striigularis striigularis** *Gould.* STRIPE-THROATED HERMIT.

Phaethornis striigularis GOULD, Mon. Trochil., I, 1854, pl. 37 (Bogota, Colombia).

Pygmornis striigularis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 281.

Pygmornis amaura GOULD, Mon. Trochil., I, 1859, pl. 32.

Phaethornis striigularis striigularis RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 327; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 283 (Honda and Puerto Valdivia, Colombia).

Range: Colombia; western Venezuela?

2: "Colombia."

[a] *Phaethornis rupurumi amazonicus* HELLMAYR: Differs from *P. r. rupurumi* in having under tail coverts buff (not white) and three outer rectrices edged with bright cinnamon rufous (not white); under parts more buffy and malar and superciliary stripes brighter.

Phaethornis striigularis subrufescens[a] *Chapman.* CHAPMAN'S STRIPE-THROATED HERMIT.

Phaethornis strigularis subrufescens CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 283 (Barbacoas, Narino, Colombia).

Range: Humid tropical zone of the Pacific coast region of Colombia and Ecuador.

Phaethornis striigularis atrimentalis[b] *Lawrence.* ECUADORIAN STRIPE-THROATED HERMIT.

Phaethornis atrimentalis LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, p. 260 (between head waters of the Rio Napo and Quito Ecuador).

Phaethornis striigularis atrimentalis OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 313; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 317, in key.

Range: Western Ecuador; east Peru?

Phaethornis striigularis ignobilis[c] *Todd.* VENEZUELAN STRIPE-THROATED HERMIT.

Phaethornis striigularis ignobilis TODD, Proc. Biol. Soc. Wash., XXVI, 1913, p. 173 (Las Quiguas, Venezuela.

Range: Venezuela (region of Las Quiguas).

***Phaethornis adolphi adolphi** *Gould.* BOUCARD'S HERMIT.

Phaethornis adolphi GOULD, Mon. Trochil., XIV, 1857 (Vol. 1, 1861), pl. 35 and text (Cordova, Vera Cruz, Mexico); SCLATER, Proc. Zool. Soc. Lond., 1856, p. 287 (nomen nudum).

Pygmornis adolphi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 282, part.

Phaethornis adolphi adolphi RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 324.

Range: Southeastern Mexico.

1: Mexico (Cordova).

***Phaethornis adolphi saturatus** *Ridgway.* DUSKY HERMIT.

Phaethornis adolphi saturatus RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 54 (El Hogar, eastern Costa Rica); *Id.*, Bull. U. S. Nat. Mus. No. 50,, V, 1911, p. 326.

Range: Guatemala to western Panama.

9: Costa Rica 4; Panama 1; Nicaragua 2; and Guatemala 2.

[a] *Phaethornis striigularis subrufescens* CHAPMAN: "Similar to *P. s. striigularis* GOULD, but smaller, with a shorter bill; under parts more rufescent, the throat more uniform and less streaked." (Chapman, l.c.).

[b] According to Chapman (Bull. Am. Mus. N. H., XXXVI, 1917, p. 283) this bird is more nearly allied to *longuemareus* than to *striigularis*. From lack of specimens I am unable to determine its proper status.

[c] *Phaethornis striigularis ignobilis* TODD: Similar to *P. s. striigularis* GOULD, but throat more uniform, under parts paler, and rectrices with broader white edges and tips, the edgings of the outer rectrices more buffy and the hind neck and rump paler cinnamomeous.

Phaethornis adolphi fraterculus *Nelson.*[a] CANA HERMIT.

Phaethornis adolphi fraterculus NELSON, Smith. Misc. Coll., Vol. 60, 1913, Pub. No. 2143, p. 9 (Cana, eastern Panama).

Range: Eastern Panama.

Phaethornis longuemareus (*Lesson*). LONGUEMARE'S HERMIT.

Trochilus longuemareus LESSON, Hist. Nat. Trochil., pp. 15, 160, pls. 2, 62 (Cayenne).

Phaethornis longuemareus GOULD, Mon. Trochil., I, 1857, pl. 31; ELLIOT, Syn. Trochil., 1879, p. 18; CHUBB, Bds. Brit. Guiana, I, 1916, p. 386.

Pygmornis longuemarei SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 386.

Range: Guiana and Trinidad.

2: Guiana 1; and Trinidad 1.

Phaethornis riojae[b] *Berlepsch.* PERUVIAN HERMIT.

Phaethornis riojae BERLEPSCH, Ibis, 1889, p. 182 (Rioja, Peru).

P[haethornis] riojae HARTERT, Ibis, 1897, p. 428, in text.

Range: North Peru and eastern Ecuador.

Phaethornis nattereri *Berlepsch.* NATTERER'S HERMIT.

Phaethornis nattereri BERLEPSCH, Ibis, 1887, p. 289 (Matto Grosso, Brazil); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 278.

Phaethornis chapadensis ALLEN, Bull. Am. Mus. N. H., 1893, p. 122 (Chapada, Matto Grosso).

P[haethornis] nattereri HARTERT, Ibis, 1897, p. 428, in text.

Range: Central Brazil.

Phaethornis apheles[c] *Heine.* HEINI'S HERMIT.

Phaethornis apheles HEINE, Journ. für Ornith., 1884, p. 235 (Peru).

P[haethornis] apheles HARTERT, Ibis, 1897, p. 427, in text.

Range: Northern Peru.

Phaethornis idaliae (*Bourc. and Muls.*). OBSCURE HERMIT.

Trochilus idaliae BOURCIER and MULSANT, Ann. Sci. Linn. Lyon (2), III, 1856, p. 187 ("l'interieur du Brésil").

?*Phaethornis viridicaudata* GOULD, Mon. Trochil., I, 1858, pl. 33[d].

[a] *Phaethornis adolphi fraterculus* NELSON: Near *P. a. saturatus* RIDGWAY, but darker above and below; crown more sooty brownish; upper tail coverts darker and more chestnut and light tips of tail feathers narrower.

[b] *Phaethornis riojae* BERLEPSCH: Approaches *P. striigularis* GOULD, but larger size, blacker throat and deeper fulvous abdomen. It also differs in having a tuft of greenish black feathers in the middle of the breast as in *P. pygmaeus* (=*ruber*) and its allies, which is absent in *P. striigularis*.

[c] *Phaethornis apheles* HEINE: Approaches *P. nattereri* BERLEPSCH, but differs in its broad deep black subapical band on the outer rectrices and shorter wings.

[d] *Phaethornis viridicaudata* GOULD: Supposed to be the female of *P. idaliae*. Hartert, however considers it to be a distinct species (Ibis, 1897, p. 428, in text).

Phaethornis obscura GOULD, Proc. Zool. Soc. Lond., 1857, p. 14; *Id.*, Mon. Trochil., I, 1851, pl. 38.
Pygmornis idaliae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 284.
Phaethornis idaliae HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 151.

Range: Central and southern Brazil.

***Phaethornis ruber ruber** (*Linn.*). RED-VENTED HERMIT.

Trochilus ruber LINNAEUS, Syst. Nat., 10th ed, 1758, p. 121 (Surinam).
Pygmornis pygmaeus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 285.
Phaethornis pygmaeus GOULD, Mon. Trochil., I, 1852, pl. 41, and of authors.
Trochilus rufigaster VEILLOT, Tabl. Enc. Meth., 1822, p. 551.
Phaethornis rufigaster HARTERT, Thierr. p. 27, VI, 1904, p. 356 (Sao Paulo).
Phaethornis ruber ruber HELLMAYR, Nov. Zool., XIII, 1906, p. 375; *Id.*, Nov. Zool. XVII, 1910, p. 374; *Id.*, 1907, p. 75.
Phaethornis ruber CHUBB, Bds. Brit. Guiana, I, 1916, p. 387.

Range: French Guiana, Brazil and eastern Bolivia.

3: "Brazil" 1; and Surinam (near Paramaribo) 2.

***Phaethornis ruber episcopus** *Gould.* BISHOP HERMIT.

Phaethornis episcopus GOULD, Proc. Zool. Soc. Lond., 1857, p. 14 (Demerara, British Guiana).
Pygmornis episcopus SALVIN and ELLIOT, Ibis, 1873, p. 274; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 284; HARTERT, Ibis, 1897, p. 428, in text.
Eremita whitelyi BOUCARD, Gen. Humming Birds, 39 p. 390.
Phaethornis ruber episcopus HELLMAYR, Nov. Zool., XIII, 1916, p. 375, in text; *Id.*, 1907, p. 75.
Phaethornis caurensis SIMON et DELMAR, Ornis, XI, 1901, p. 208 (Caura River, Ven.).

Range: British Guiana and Venezuela.

1: British Guiana.

Phaethornis ruber longipennis (*Berl. and Stolz.*).[a] LONG-WINGED HERMIT.

Phaethornis rufigaster longipennis BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 19 (Chunchamayo, Peru); HELLMAYR, Nov. Zool., XIV, 1907, p. 95.

Range: Central Peru.

Phaethornis ruber nigricinctus *Lawrence.* BLACK-BANDED HERMIT.

Phaethornis nigricinctus LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, p. 260 (Ecuador); GOULD, Mon. Trochil., I, 1859, pl. 39.
Pygmornis nigricinctus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 286.
P[haethornis] nigricinctus HARTERT, Ibis, 1897, p. 429, in text.
Phaethornis ruber nigricinctus HELLMAYR, Nov. Zool., XIV, 1907, p. 75.

Range: Eastern Ecuador and northeastern Peru.

[a] *Phaethornis ruber longipennis* BERL. & STOLZ.: Similar to *P. r. ruber* (LINN.), but differs in its much longer bill, which averages more than 41 mm., while that of *P. r. ruber* averages less than 37 mm.

Phaethornis stuarti[a] *Hartert.* STUART'S HERMIT.

Phaethornis stuarti HARTERT, Bull. Brit. Orn. Club, VI, 1897, p. 39 (Salinas, Beni River, eastern Bolivia); *Id.*, Ibis, 1897, p. 442.

Range: Eastern Bolivia.

Genus **EUTOXERES** Reichenbach.

Eutoxeres Reichenbach, Av. Syst. Nat., 1849, p. 40 (Type *Trochilus aquil* Bourcier).

***Eutoxeres condaminii condaminii** (*Bourc.*). CONDAMINE'S SICKLE-BILL.

Trochilus condaminii BOURCIER, Compt. Rend., XXXII, 1851, p. 187 (Archidona eastern Ecuador).

Eutoxeres condaminii GOULD, Mon. Trochil., I, 1851, pl. 4; SALVIN, Cat. Bds. Bit. Mus., XVI, 1892, p. 263, part; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 284 (La Morelia, Colombia).

Eutoxeres condamini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 312, in key.

Range: Eastern slope of the Andes Ecuador; Colombia (Morelia).

1: Ecuador.

Eutoxeres condamini gracilis[b] *Berlepsch and Stolzman.* PERUVIAN SICKLE-BILL.

Eutoxeres condamini gracilis BERLEPSCH and STOLZMAN, Proc. Zool. Soc. Lond., 1902, p. 19 (Vitoc, Garita del Sol, central Peru).

Eutoxeres gracilis BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 109.

Range: Central Peru.

***Eutoxeres aquila aquila** (*Bourc.*). COMMON SICKLE-BILL.

Trochilus aquila BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 42 (Bogota, Colombia).

Eutoxeres aquila VERREAUX, Hist. Nat. Ois. Mouch., I, 1873, p. 27, pl. 1; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 261; HARTERT, Nov. Zool., I, 1894, p. 53.

Eutoxeres aquila aquila RIDGWAY, Bull. U. S. Nat. Mus. No. 50,, V, 1911, p. 311, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 284 (La Palma, Buena Vista, Colombia).

Range: Eastern and central Colombia and eastern Ecuador.

2: Colombia 1; and Ecuador 1.

[a] *Phaethornis stuarti* HARTERT: Approaches the group represented by *P. r. ruber* (LINN.) and races, but differs in its larger size (wing about 41 mm. and central rectrices 38 to 39 mm.) and having broad white tips to the rectrices. From *P. riojae* BERLEPSCH it may be distinguished by the absence of black on the chin.

[b] *Eutoxeres condamini gracilis* BERL. & STOLZ., Differs from *E. c. condamini* (BOURC.) from Ecuador in having the bill shorter and more slender; fulvous stripe on throat and breast larger and becoming whitish on the breast; back more golden green. Wing, about 75; bill, about 30 mm.

***Eutoxeres aquila salvini** (*Gould*). SALVIN'S SICKLE-BILL.

Eutoxeres salvini GOULD, Ann. & Mag. N. H., I, 1868, p. 456 (Veragua, Panama); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 262; RIDGWAY, Bull. U. S. Nat. Mus., V, 1911, p. 312; HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1180; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 284 (San Jose; San Antonio, western Colombia).

Range: Costa Rica to western Colombia.

3: Panama 1; and Costa Rica 2.

Eutoxeres aquila heterura *Gould*. GOULD'S SICKLE-BILL.

E[utoxeres] heterura GOULD, Ann. & Mag. N. H., VI, 1868, p. 456, in text (Quito, Ecuador).

Eutoxeres heterura ELLIOT, Syn. Trochil., 1879, p. 3; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 53.

Eutoxeres aquila heterura RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 311, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 285 (Cocal, southwestern Colombia).

Eutoxeres baroni HARTERT and HARTERT, Nov. Zool., I, 1894, p. 54.[a]

Range: Western Ecuador.

Genus **PAMPA REICHENBACH.**

Pampa Reichenbach, Aufz. der Colib., 1854, p. 11 (Type *P. campyloptera* Reich. =*Ornismya pampa* Lesson).

***Pampa pampa pampa** (*Lesson*). WEDGE-TAILED SABRE-WING.

Ornisnya pampa LESSON, Hist. Nat. Colibr., Suppl. Ois. Mouch., 1830–31, p. 127, pl. 15 ("Paraguay"; error=Guatemala).

Sphenoproctus pampa (not of Cabanis and Heine, 1860) SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 286.

Pampa lessoni SIMON, Cat. Trochil., 1897, p. 8 (Guatemala).

Pampa pampa pampa RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 354.

Range: Guatemala to Yucatan.

2: Guatemala 1; and "Central America" 1.

***Pampa pampa curvipennis** (*Licht.*). CURVE-WINGED SABRE-WING.

Trochilus curvipennis LICHTENSTEIN, Preis-Verz. Mex. Vög., 1830, I, No. 32; *Id.*, Journ. Ornith., 1863, p. 55 (Mexico).

Spenoproctus curvipennis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 287, part.

[a] *Eutoxeres baroni* HARTERT & HARTERT: The preponderance of opinion seems to be that this questionable species is not separable from *E. a. heterura* (*cf.* Salvadori & Festa, Boll. Mus. Torino, XV, 1900, p. 2 and Hellmayr, Proc. Zool. Soc. Lond., 1911, pp. 1180–1181, in text); Ridgway (Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 312, in key) and Oberholser (Proc. U. S. Nat. Mus., XXIV, 1902, p. 314) recognizes it as a distinct species. Chapman does not consider it as worthy of even subspecific value (*cf.* Bull. Am. Mus. N. H., XXXVI, 1917, p. 285).

Pampa pampa curvipennis RIDGWAY, Bull. U. S. Nat. Mus., V, 1911, p. 355.

Range: Southeastern Mexico, in States of San Louis, Potosi, Vera Cruz, Puebla, Oaxaca and Campeche.

2: Mexico.

Genus **CAMPYLOPTERUS** Swainson.

Campylopterus Swainson, Zool. Journ., II, 1826, p. 358 (Type *Trochilus largipennis* Boddaert).

***Campylopterus largipennis** *Bodd.* BROAD-SHAFTED SABRE-WING.

Trochilus largipennis BODDAERT, Tabl. Pl. Enl., 1783, p. 41 (Cayenne).
Campylopterus latipennis GOULD, Mon. Trochil., II, 1860.
Campylopterus largipennis ELLIOT, Syn. Trochil., 1879, p. 24; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 288; CHUBB, Bds. Brit. Guiana, I, 1916, p. 390.

Range: Guiana and northern Brazil.

4: British Guiana.

Campylopterus obscurus obscurus (*Gould*). DUSKY SABRE-WING.

Campylopterus obscurus GOULD, Proc. Zool. Soc. Lond., 1848, p. 13 ("Amazons Valley" = Para?); ELLIOT, Syn. Trochil., 1879, p. 25, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 289, part.
Campylopterus obscurus obscurus HELLMAYR, Nov. Zool., XIII, 1906, p. 375; GOELDI, Alb. de Aves Amazon, III, 1905, pl. 45.

Range: Northeastern Brazil.

***Campylopterus obscurus aequatorialis** (*Gould*).[a] EQUATORIAL SABRE-WING.

Campylopterus aequatorialis GOULD, Intro. Trochil., 1861, p. 54 (Quito, Ecuador).
Campylopterus obscurus aequatorialis HELLMAYR, Nov. Zool., XIII, 1906, p. 375, in text; *Id.*, XVII, 1910, p. 375; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 285 (La Morelia, Colombia).

Range: Central and eastern Ecuador, eastern Peru, eastern Colombia, eastern Bolivia and western Brazil (Rio Madeira region).

4: Ecuador 1; and Peru 3.

***Campylopterus ensipennis** (*Swains.*). BLUE-THROATED SABRE-WING.

Trochilus ensipennis SWAINSON, Zool. Illustr., II, 1821–22, p. 107 (Venezuela).
Campylopterus ensipennis GOULD, Mon. Trochil., II, 1857, pl. 46; ELLIOTT, Syn. Trochil., 1879, p. 26; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 290.

Range: Eastern Venezuela and Islands of Trinidad and Tobago.

7: Tobago 6; and Trinidad 1.

[a] *Campylopterus obscurus aequatorialis* (GOULD): Differs chiefly in having the outermost tail feather on each side tipped with white, not smoky gray as in *C. o. obscurus* (GOULD).

***Campylopterus hemileucus** (*Licht.*). DE LATTRE'S SABRE-WING.

Trochilus hemileucus LICHTENSTEIN, Preis.-Verz. Mex. Vög., 1830, p. 1 (Mexico); Journ. für Ornith., 1863, p. 56.

Campylopterus delattrii GOULD, Mon. Trochil., II, 1855, pl. 45.

Campylopterus pemileucurus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 291; RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 358.

Campylopterus hemileucurus mellitus BANGS, Proc. N. E. Zool. Club, III, 1902, p. 28 (Chiriqui, Panama).

Range: Southeastern Mexico to western Panama; northwestern Colombia?

13: Mexico 2; Guatemala 3; Costa Rica 3; and Colombia (Boynetti, J. H. Batty Coll) 2.

***Campylopterus falcatus** *Swainson.* LAZULINE SABRE-WING.

Trochilus falcatus SWAINSON, Zool. Illustr., II, 1821–1822, tab. 83 (Spanish Main northern Venezuela).

(?) *Trochilus lazulus* VIEILLOT,[a] Encyc. Meth., II, 1822, p. 557.

Campylopterus lazulus GOULD, Mon. Trochil., II, 1856, pl. 44; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 292.

Campylopterus falcatus HELLMAYR and SEILERN, Arch. fur Naturg. Abt. A, 5 Heft, 1912, p. 138; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 285 (San Agustin, etc., Colombia).

Range: Andes of Venezuela, Colombia and northern Ecuador.

12: Venezuela 4; and Colombia 8.

Campylopterus villavicencio (*Bourc.*). VILLAVICENCIOS SABRE-WING.

Trochilus villavicencio BOUCIER, Compt. Rend., XXXII, 1851, p. 187 (near Napo, Ecuador).

Campylopterus villavicencio GOULD, Mon. Trochil., II, 1859, pl. 42; ELLIOT, Syn. Trochil., 1879, p. 27.

Campylopterus splendens LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VI, p. 262.

Range: Ecuador.

Campylopterus phainopeplus *Salvin and Godman.* SANTA MARTA SABRE-WING.

Campylopterus phainopeplus SALVIN and GODMAN, Ibis, 1879, p. 202 (Sierra Nevada of Santa Marta, Colombia); SHARPE in Gould's Mon. Trochil., Suppl., 1885, pl. 3; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 294.

Range: Northern Colombia.

1: Colombia (Santa Marta).

[a] *Cf.* Hellmayr and Seilern (l.c.) footnote, p. 138.

***Campylopterus rufus** *Lesson*. RUFOUS SABRE-WING.

Campylopterus rufus LESSON, Rev. Zool., 1840, p. 73 (no type locality = Guatemala); GOULD, Mon. Trochil., III, 1852 (II, 1861, pl. 50); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 294; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 361.

Range: Guatemala.

4: Guatemala.

***Campylopterus hyperythrus** *Cabanis*. RUFUOS-BREASTED SABRE-WING.

Campylopterus hyperythrus CABANIS in Schomb. Reis. Guiana, III, 1848, p. 709 (British Guiana); GOULD, Mon. Trochil., II, 1852, p. 51; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 295; CHUBB, Bds. Brit. Guiana, I, 1916, p. 391.

Range: British Guiana.

2: British Guiana (Mt. Roraima).

Genus **EUPETOMENA** Gould.

Eupetomena Gould, Mon. Trochil., II, (Oct. 1852) pl. 42 (Type *Trochilus macrourus* Gmelin).

***Eupetomena macroura macroura** (*Gmel.*). BRAZILIAN SWALLOW-TAIL.

Eupetomena macrourus GMELIN, Syst. Nat., I, 1788, p. 487 ("Jamaica" = Cayenne).[a]

Eupetomena hirundinacea GOULD, Mon. Trochil., II, 1853, pl. 42.

Eupetomena macrura SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 295; GOELDI, Alb. de Aves Amazon, pt. 3, 1905, pl. 45.

Eupetomena macroura macroura HELLMAYR, Nov. Zool., XIV, 1907, p. 395; *Id.*, XV, 1908, p. 74.

Eupetomena mac. prasina SIMON, Cat. Trochil., 1897, p. 9.

E. macroura prasina SIMON, Das Tierreich Troch., 1900, p. 34.

Range: French Guiana, central, eastern and northeastern Brazil.

25: French Guiana 1; Brazil (Bahia 8, Ceara 15, Minas Geraes 1).

Eupetomena macroura hirundo (*Gould*). WESTERN SWALLOW-TAIL.

Eupetomena hirundo GOULD, Ann. & Mag. Nat. Hist., XVI, 1875, p. 370 (Huiro, Santa Anna Valley, Peru); ELLIOTT, Syn. Trochil., 1879, p. 22; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 296.

Range: Southeastern Peru and Bolivia.

Genus **FLORISUGA** Bonaparte.

Florisuga Bonaparte, Consp. Av., I, 1850, p. 73 (Type *Trochilus mellivorus* Linnaeus).

***Florisuga mellivora mellivora** (*Linn.*). JACOBIN HUMMING BIRD.

Trochilus mellivorus LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 121 ("India," errore: = Guiana).[b]

[a] Designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 10, No. 1056.

[b] Type locality designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 111 No. 1058.

Florisuga mellivora GOULD, Mon. Trochil., II, 1861, pl. 113; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 329; RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 576.

Florisuga flabellifera GOULD, Mon. Trochil., II, 1857, Vol. II, 1861, pl. 114 (Mexico).

Florisuga sallei BOUCARD, The Humming Bird, No. 3, 1891, p. 18 (S. Mexico).

Florisuga guianensis BOUCARD, Gen. Humming Birds, 1895, p. 340 (British Guiana).

Florisuga peruviana BOUCARD, Gen. Humming Birds, 1895, p. 340, in text (Peru).

Range: Southeastern Mexico to Panama and nearly the whole of South America, south to Peru and southern Brazil, also islands of Trinidad, Aruba and Cariacou.

18: British Guiana 4; Aruba Island 1; Colombia 7; Ecuador 2; and Peru 5.

***Florisuga mellivora tobagensis**[a] *Ridgway.* TOBAGO JACOBIN.

Florisuga mellivora tobagensis RIDGWAY, Proc. Biol. Soc. Wash., XXXIII, 1910, p. 55 (Island of Tobago, W. I.); *Id.*, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 578, footnote.

Range: Island of Tobago, W. I.

2: Tobago Island.

Genus **MELANOTROCHILUS** Deslongch.

Melanotrochilus Deslongchampo, Guide d. Naturaliste, 1880, p. 7 (Type *Trochilus fuscus* Vieill.).

***Melanotrochilus fuscus** (*Vieill.*). DUSKY JACOBIN.

Trochilus fuscus VIEILLOT, N. Dict. d'Hist. Nat., VII, 1817, p. 348 (Brazil).

Florisuga atra GOULD, Mon. Trochil., II, 1851, pl. 115.

Florisuga fusca ELLIOT, Syn. Trochil., 1879, p. 48; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 331.

Melanotrochilus fuscus HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 152.

Range: Eastern Brazil (Pernambuco to Rio Grande do Sol).

4: Brazil (Bahia).

Genus **APHANTOCHROA** Gould.

Aphantochroa Gould, Mon. Trochil., II, 1854, pl. 54 (Type *Trochilus cirrochloris* Vieillot).

***Aphantochroa cirrochloris** (*Vieill.*). SOMBRE HUMMING BIRD.

Trochilus cirrochloris VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, 1818, p. 430 ("Bresil").

[a] *Florisuga mellivora tobagensis* RIDGWAY: "Similar to *F. m. mellivora* (LINN.), but larger. Wing, 70.5; tail, 38.5 mm.' (Ridgway).

Aphantochroa cirrochloris GOULD, Mon. Trochil., II, 1853, pl. 54; ELLIOT, Syn. Trochil., 1879, p. 27; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 297; HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 152.

Range: Eastern Brazil (Pernambuco to Santa Catharina).

2: Brazil (Minas Geraes) 1; locality? 1.

Genus **PHAEOCHROA** Gould.

Phaeochroa Gould, Introd. Trochil., Oct. ed., 1861, p. 55 (Type *Trochilus cuvieri* Delattre and Bourcier); Ridgway, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 362.

***Phaeochroa cuvierii cuvierii** (*Delatt. and Bourc.*). CUVIER'S HUMMING BIRD.

Trochilus cuvierii DELATTRE and BOURCIER, Rev. Zool., 1846, p. 310, part (Isthmus of Panama).

Phaeochroa cuvieri GOULD, Introd. Trochil., Oct. ed., 1861, p. 55, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 299, part.

Phaeochroa cuvierii cuvierii RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 363.

Range: Western Costa Rica south to Panama.

4: Costa Rica 3; Panama 1.

Phaeochroa cuvierii saturatior *Hartert.* COIBA ISLAND HUMMING BIRD.

Aphantochroa cuvieri saturatior HARTERT, Bull. Brit. Orn. Club, XII, 1901, p. 33 (Coiba Island, Bay of Panama).

Phaeochroa cuvierii saturatior RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 365.

Range: Coiba Island, Bay of Panama.

Phaeochroa cuvierii berlepschi[a] *Hellmayr and Seilern.* BERLEPSCH'S HUMMING BIRD.

Phaeochroa cuvierii berlepschi HELLMAYR and SEILERN, Verh. Orn. Gesell. Bayern, XII, No. 3, 1915, p. 208 (Baranquilla, north coast of Colombia).

Range: Baranquilla region, northeastern Colombia.

Phaeochroa cuvierii notia[b] *Todd.* TURBACO HUMMING BIRD.

Phaeochroa cuvierii notia TODD, Proc. Biol. Soc. Wash., XXX, 1917, p. 5 (Turbaco, Bolivar, Colombia).

Range: Bolivar, Colombia.

[a] *Phaeochroa cuvierii berlepschi* HELLMAYR & SEILERN: Similar to *P. c. cuvierii* (DELATT. & BOURC.) from Panama, but differs in having the bill more slender and somewhat shorter; upper parts darker and less pronounced bronze green, most noticeable on the crown; abdomen more strongly rust-colored; under tail coverts dull grayish brown (with scarcely a tinge of bronze); pale tips of three outer rectrices more whitish and decidedly more extensive. ♂ Wing, 70; tail, 43½; bill, 19 mm.

[b] *Phaeochroa cuvierii notia* TODD: "Similar to *P. c. cuvierii* (DELATTRE and BOURCIER), but outer rectrices with much more extended white tips and without any blue-black subterminal band." (Todd, l.c.).

***Phaeochroa roberti** *Salvin.* OWEN'S HUMMING BIRD.

Aphantochroa roberti SALVIN, Proc. Zool. Soc. Lond., 1861, p. 203 (Vera Paz, eastern Guatemala).

Campylopterus roberti GOULD, Mon. Trochil., II, 1861, pl. 53.

Phaeochroa roberti SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 300; RIDGWAY, Bull. U. S. Nat. Mus., V, 1911, p. 365.

Range: Guatemala and British Honduras to eastern Nicaragua.

5: Nicaragua.

Genus **TAPHROSPILUS** Simon.

Taphrospilus Simon, Rev. Franc. d'Orn., 1910, p. 261 (Type *Aphantochroa hyposticta* Gould).

Taphrospilus hyposticta (*Gould*). GOULD'S SPOTTED WHITE-THROAT.

Aphantochroa hyposticta GOULD, Proc. Zool. Soc. Lond., 1862, p. 124 (Ecuador); ELLIOT, Syn. Trochil., 1879, p. 29; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 298.

Range: Eastern slope of Andes of Ecuador, Peru and Bolivia.

Genus **THAUMASIUS**[a] Sclater.

Thaumasius Sclater, Proc. Zool. Soc. Lond., 1879, p. 46 (Type *T. taczanowskii* Sclater).

***Thaumasius taczanowskii** *Sclater.* TACZANOWSKI'S WHITE-THROAT.

Thaumasius taczanowskii SCLATER, Proc. Zool. Soc. Lond., 1879, p. 146 (Callacate, Peru); SHARPE in Gould's Mon. Trochil., Suppl., 1855, pl. 52.

Agyrtria taczanowskii SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 193.

Range: Andes of Peru.

3: Peru (Balsas 2, and Cajamarca 1).

Genus **TALAPHORUS** Mulsant.

Talaphorus Mulsant, Hist. Nat. Ois-Mouches, I, 1874, p. 257 (Type *Leucippus chlorocercus* Gould).

Talaphorus chlorocercus (*Gould*). SPOTTED WHITE-THROAT.

Leucippus chlorocercus GOULD, Proc. Zool. Soc. Lond., 1866, p. 194 (Upper Ucayali, Peru); ELLIOT, Syn. Trochil., 1879, p. 199; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 201; SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 193 (Cat. Av. Amazon).

Range: Eastern Peru and upper Amazon, Brazil (Snethlage).

[a] According to Chubb (Bds. Brit. Guiana, I, 1916, p. 394, note) *Thaumasius* SCLATER is an amended name for *Thaumantius* BONAP. and is preoccupied in *Aranae*. He, therefore, proposes a new name, *Barbournea*, for the genus with *T. taczanowskii* SCLATER for the type.

Genus **PATAGONA** Gray.

Patagona Gray, List. Gen. Bds., 1840, p. 18 (Type *Trochilus gigas* Vieill.).

*Patagona gigas gigas (*Vieillot*). CHILIAN GIANT HUMMING BIRD.

Trochilus gigas VIEILLOT, Gal. Ois., I, 1825, p. 296; pl. 180 ("Bresil").
Ornismya tristis LESSON, Hist. Nat. Ois.-Mouches, 1829, p. 43, pl. 3.
Patagona gigas GOULD, Mon. Trochil., pt. 4, 1855, pl. 232; ELLIOT, Syn. Trochil., 1879, p. 67, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 348, part.

Range: Bolivia, Argentina and Chile.

2: Chile.

*Patagona gigas peruviana[a] *Boucard*. PERUVIAN GIANT HUMMING BIRD.

Patagona peruviana BOUCARD, Gen. Humming Bds., 1893–95, p. 61, in text (Peru).

Range: Peru and southern Ecuador.

19: Peru (Macate 16, Otuzco 1, Cajamarca 1, and "Peru" 1).

Genus **LEUCIPPUS**[b] Bonap.

Leucippus Bonaparte, Consp. Av., I, 1850, p. 73 (Type as fixed by Gray, 1855 — *Trochillus fallax* Bourcier).

Leucippus chionogaster chionogaster *Tschudi*. TSCHUDI'S WHITE-THROAT.

Trochilus chionogaster TSCHUDI, Faun. Peru, Aves, 1884–86, p. 247, pl. 22, Fig. 2 (Peru).
Trochilus leucogaster TSCHUDI (not *T. leucogaster* Gmel.), Arch. fur Naturg., I, 1844, p. 297.
Leucippus chionogaster GOULD, Mon. Trochil., pt. 5, 1855, pl. 290; ELLIOT, Syn. TRCOHIL., 1879, p. 199; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 200.

Range: Peru and Bolivia.

1: Bolivia.

[a] *Patagona gigas peruviana* BOUCARD: Peruvian specimens average decidedly larger than those from Chile. Attention has been called to the deeper rufous coloration of the under parts, but which does not seem to be constant, the chief difference being one of size.

[b] Prof. Ridgway considers that *chionogaster* (TSCHUDI), *pallidus* Taczanowski and *viridicauda* SCLATER and SALVIN, should be excluded from this genus and placed in the Genus *Talaphorus* MULSANT (*cf.* Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 305, footnote).

Leucippus chionogaster longirostris[a] (*Schlüter*). ARGENTINE WHITE-THROAT.

Leucippus leucogaster longirostris SCHLÜTER, Falco, Halle, IX, 1913, p. 42 (Prov. of Salta, Argentine).

Range: Argentine.

Leucippus pallidus *Taczanowski*. PERUVIAN WHITE-THROAT.

Leucippus pallidus TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, p. 542 (Huanta, Peru); *Id.*, Orn. Peru, I, 1884, p. 402; ELLIOT, Ibis, 1876, p. 9, crit.; SALVIN Cat. Bds. Brit. Mus., XVI, 1892, p. 201.

Range: Peru.

Leucippus viridicauda *Berlepsch*. GREEN-TAILED WHITE-THROAT.

Leucippus viridcauda BERLEPSCH, Ibis, 1883, p. 493 (Huiro, Peru); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 202.

Range: Peru.

***Leucippus fallax fallax** (*Bourc. and Muls.*). BUFF-BREASTED WHITE THROAT.

Trochilus fallax BOURCIER and MULSANT, Ann. Soc. Agric. Lyon, VI, 1843, p. 44 (Colombia).

Doleromya fallax ELLIOT, Syn. Trochil., 1879, p. 9; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 177.

Leucippus fallax RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 305, footnote.

Range: North coast of Colombia and Venezuela.

5: Venezuela (Caracas 3, Maracaibo 1, and Rio Aurare 1).

Leucippus fallax richmondi[b] *Cory*. RICHMOND'S WHITE-THROAT.

Leucippus fallax richmondi CORY, Field Mus. Pub., No. 183, Orn. Ser., I, 1915, p. 303 (new name for *Doleromya pallida* Richmond, preoccupied).

Doleromya pallida RICHMOND, Auk, 1895, p. 369 (Margarita Island).

Range: Islands of Margarita and Tortuga (off Venezuela).

Leucippus baeri[c] *Simon*. BAER'S WHITE-THROAT.

Leucippus baeri SIMON, Proc. III, Int. Orn. Cong. Paris, 1901, p. 2 (Tumbez, northwestern Peru); *Id.*, Ornis, 1901, p. 202.

Range: Northwestern Peru.

[a] *Leucippus chionogaster longirostris* SCHLÜTER: Differs from typical *L. c. chionogaster* TSCHUDI, in having upper parts slightly more golden green and the wings, tail and bill averaging longer. Wing, 60; bill, ♂ 27; ♀ 25 mm.

[b] *Leucippus fallax richmondi* CORY: Differs from *L. fallax fallax* (BOURC. & MULS.) in its paler plumage.

[c] *Leucippus baeri* SIMON: Somewhat resembles *L. leucogaster* TSCHUDI (=*chionogaster* TSCHUDI), but has the under parts of body pale fawn gray (instead of white), the lateral rectrices white with a wide subterminal bar sloping to the top by a white apical line; bill entirely black.

NOTE.— M. Simon remarks that its entirely black bill shows its relationship to the genus *Talaphorus*.

Genus AGYRTRINA[a] Chubb.

Agyrtrina Chubb, Bds. Brit. Guiana, I, 1916, p. 395 (Type *Uranomitra whitelyi* Boucard); substitute name for *Agyrtria* Reichenbach, etc.

***Agyrtrina chionopectus chionopectus** *Gould.* WHITE-BREASTED EMERALD.

Thaumatias chionopectus GOULD, Mon. Trochil., V, 1859, pl. 293 (Trinidad).
Agyrtria niveipectus ELLIOT, Syn. Trochil., 1879, p. 202; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 180.
Agytria chionopectus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 431, in key.

Range: Trinidad and coast of Venezuela.

2: Trinidad 1; and Venezuela? 1.

***Agyrtrina chionopectus whitelyi** (*Boucard*).[b] WHITELY'S EMERALD.

Uranomitra whitelyi BOUCARD, The Humming Bird, III, 1893, p. 8 (Aunai, British Guiana).
A. chionopectus whitelyi HARTERT, Das Tierreich, Trochil., 1900, p. 42.
Agritrina whitelyi CHUBB, Bds. Brit. Guiana, I, 1916, p. 397.

Range: British Guiana.

2: British Guiana.

Agyrtrina leucogaster leucogaster (*Gmel.*). WHITE-BELLIED EMERALD.

Trochilus leucogaster GMELIN, Syst. Nat., I, 1788, p. 495 (Cayenne).
Thaumatias leucogaster GOULD, Mon. Trochil., V, 1859, pl. 294.
Agyrtria leucogaster ELLIOT, Syn. Trochil., 1879, p. 202; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 181.
Agyrtrina leucogaster leucogaster CHUBB, Bds. Brit. Guiana, I, 1916, p. 397.

Range: Dutch and French Guiana; British Guiana (Chubb).

***Agyrtrina leucogaster bahiae**[c] (*Hartert*). BAHIAN EMERALD.

Agytria leucogaster bahiae HARTERT, Orn. Monatsb., VII, 1899, p. 140 (Bahia).
A. leucogaster bahiae HARTERT, Das Tierreich, Trochil., 1900, p. 43.

Range: Eastern Brazil.

1: Brazil (Bahia).

[a] The following described species are supposed to be hybrids: *Agyrtria neglecta* (ELLIOT), Ibis, 1877, p. 140, Bolivia=*Agyrtria versicolor*×*Hylocharis cyanus* (*cf.* SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 1); *Agyrtria caeruleiceps* (GOULD) Proc. Zool. Soc. Lond., 1860, p. 307, Colombia; Salvin, Cat. Bds. Brit. Mus., XVI, 1892, p. 183, pl. VII, fig. 1=*Agyrtria milleri*×*chrysuronia aenone longirostris* (*cf.* Simon, Rev. Franc. d'Orn., No. 12, 1910, p. 178.

[b] *Agyrtrina chionopectus whitelyi* BOUCARD: Differs from *A. c. chionopectus* GOULD, in its somewhat darker coloration, most noticeable in head and tail.

[c] *Agyrtrina leucogaster bahiae* (HARTERT): Differs from *A. l. leucogaster* (GMEL.) from British Guiana in being smaller, bill shorter and tail darker and less greenish. Wing, 52 to 54; bill, 20 mm.

Agyrtrina viridiceps (*Gould*). GREEN-HEADED EMERALD.

Thaumatias viridiceps GOULD, Proc. Zool. Soc. Lond., 1860, p. 307 (Ecuador); *Id.*, Mon. Trochil., V, 1861, pl. 295.

Agyrtria viridiceps SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 181; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 286 (Ricaurte, southwestern Colombia).

Range: Western Ecuador and southwestern Colombia.

2: Ecuador (Paramba).

***Agyrtrina milleri** (*Bourcier*). MILLER'S EMERALD.

Trochilus milleri BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 43 (Rio Negro).

Thaumatias milleri GOULD, Mon. Trochil., V, 1859, p. 296.

Agyrtria milleri ELLIOT, Syn. Trochil., 1879, p. 203; SALVIN, Cat. Bds. Brit. Mus. XVI, 1892, p. 182 .

Range: Northern Brazil, Venezuela and Colombia.

2: Colombia.

Agyrtrina hollandi (*Todd*).[a] HOLLAND'S EMERALD.

Agyrtria hollandi TODD, Proc. Biol. Soc. Wash., XXVI, 1913, p. 173 (El Dorado, Rio Cuyuni, Venezuela).

Range: Venezuela.

Agyrtrina nitidifrons (*Gould*). BRILLANT-FRONTED EMERALD.

Thaumatias nitidifrons GOULD, Proc. Zool. Soc. Lond., 1860, p. 308 (Type locality? = Para[b]?); *Id.*, Mon. Trochil., X, 1861, p. 297.

Agyrtria nitidifrons ELLIOT, Syn. Trochil., 1879, p. 205; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 183; HELLMAYR, Nov. Zool., XIII, 1906, p. 376.

Range: Northeastern Brazil.

***Agyrtrina bartletti** (*Gould*). BARTLETT'S EMERALD.

Thaumantias bartletti GOULD, Proc. Zool. Soc. Lond., 1866, p. 194 (Upper Ucayali, eastern Peru).

Agyrtria bartletti ELLIOT, Syn. Trochil., 1879, p. 205; SHARPE in Gould's Mon. Trochil., 1885, pl. 50.

Range: Eastern Peru.

4: Peru (Rioja 1, Moyobamba 1, and San Ramon 2).

***Agyrtrina lactea** (*Lesson*). SAPPHIRE-BREASTED EMERALD.

Ornismya lactea LESSON, Hist. Nat. Ois.-Mouches, 1829, pl. 56 (Southeastern Brazil).

Hylocharis lactea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 247.

Range: Southeastern Brazil.

2: "Brazil."

[a] *Agyrtrina hollandi* (TODD): "With a general resemblance to *A. milleri* (BOURCIER), but crown bright blue (not greenish blue); under parts less extensively white; sides of the throat and breast prominently spangled with light blue; and upper parts much darker green." (Todd, l.c.).

[b] *Cf.* Hellmayr, l.c.

***Agyrtrina versicolor versicolor** (*Vieill.*). ALLIED EMERALD.

Trochilus versicolor VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, 1818, p. 430 (Brazil).

Thaumantias affinis GOULD, Mon. Trochil., V, 1855, pl. 299; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 185.

Agyrtria versicolor SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 1.

Range: Central and southern Brazil (Matto Grosso, Minas Geraes and southward), Paraguay and N. E. Argentine (Missiones).

4: Brazil (Matto Grosso 2, "Brazil" 2).

***Agyrtrina versicolor brevirostris** (*Lesson*). SHORT-BILLED EMERALD.

Ornismya brevirostris LESSON, Hist. Nat. Ois-Mouches, 1829, p. 211, pl. 77 ("Guiane" = southeastern Brazil; Bahia?).

Thaumatias brevirostris GOULD, Mon. Trochil., V, 1855, pl. 298.

Agyrtria brevirostris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 185; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 113, No. 1080.

Agyrtria versicolor brevirostris SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 1, in text.

Range: Southeastern Brazil.

2: Brazil (Bahia 1, "Brazil" 1).

***Agyrtrina fimbriata fimbriata** (*Gmel.*). LESSON'S EMERALD.

Trochilus fimbriatus GMELIN, Syst. Nat., I, 1788, p. 493 ("Cayenna").

Ornismya albiventris LESSON, Hist. Nat. Ois-Mouches, II, 1829, p. 209.

Agyrtria fimbriata BERLEPSCH, Nov. Zool., XV, 1908, p. 266.

Agyrtria viridissima SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 186; RIDGWAY Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 431, in key; BREWSTER, Bds. Cambridge Region of Mass., Mem. Nutt. Orn. Club, IV, 1906, p. 22 (crit. errore).

Agyrtrina fimbriata CHUBB, Bds. Brit. Guiana, I, 1916, p. 395.

Agyrtria tobaci (not of Gmel.) SALVIN, Ibis, 1885, p. 345.

Agyrtria fimbriata fimbriata HELLMAYR, Nov. Zool., XVII, 1910, p. 375.

Range: Guianas, Trinidad, eastern Venezuela and northern Brazil.

30: Dutch Guiana 2; British Guiana 2; Venezuela (Caracas 4, Maracay 2); Brazil (Serra da Lua, near Boa Vista 9; Boa Vista, Rio Branco 9); and Trinidad 1.

***Agyrtrina fimbriata nigricauda**[a] (*Elliot*). BLACKED-TAILED EMERALD.

Thaumatius nigricauda ELLIOT, Ibis, 1878, p. 47 (Bahia).[b]

Agyrtria nigricauda ELLIOT, Syn. Trochil., 1879, p. 208.

Agyrtria albiventris nigricauda HELLMAYR, Nov. Zool., XV, 1908, p. 74.

[a] *Agyrtrina fimbriata nigricauda* (ELLIOT): Adult males with middle rectrices entirely black or merely with a slight tinge of bronze at the base.

[b] Original type locality (Trinidad, etc.) now ascertained to be incorrect; type locality by designation is now Bahia. *Cf.* Hellmayr, Nov. Zool., XV, 1908, p. 74.

Agyrtria fimbriata nigricauda SIMON, Bull. Mus. d'Hist. Nat. Paris, XVIII, 1912, No. 8, p. 500; HELLMAYR, Nov. Zool., XVII, 1910, p. 375, in text.

Range: Southeastern Brazil.

6: Brazil (Bahia).

Agyrtrina maculicauda (*Gould*). GUIANA EMERALD.

Thaumatias maculicauda GOULD, Intro. Trochil., 1861, p. 154 ("British Guiana").
Agyrtria maculicauda ELLIOT, Syn. Trochil., 1879, p. 207; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 188; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 113, No. 1083.

Range: British Guiana; French Guiana?

2: Guiana ("Cayenne") from Boucard collection.

***Agyrtrina apicalis** *Gould*. BLACK-TIPPED EMERALD.

Thaumatias apicalis GOULD, Intro. Trochil., 1861, p. 154 (Bogota).
Agyrtria apicalis ELLIOT, Syn. Trochil., 1879, p. 207; SALVIN, Cat. Bds. Brit. Mus. XVI, 1892, p. 189; SIMON, Rev. Franc. d'Orn., 1910, p. 262.
A[gyrtria] terpna HEINE, Journ. für Ornith., XI, 1863, p. 184 (Bogota?).
A[gyrtria] apicalis HARTERT, Das Tierreich, Trochil., 1900, p. 45.
Agyrtria viridissima terpna BERLEPSCH, Journ. für Ornith., XXXV, 1887, p. 330.

Range: Colombia and eastern Ecuador.

1: Colombia.

Agyrtrina fluvialitis fluvialitis (*Gould*). RIVERINE EMERALD.

Thaumatias fluvialitis GOULD, Intro. Trochil., 1861, p. 154 (Napo, Ecuador).
Agyrtria fluvialitis ELLIOT, Syn. Trochil., 1879, p. 207; SHARPE in Gould's Mon. Trochil., Suppl., 1885, pl. 51; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 188; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 286 (La Morelia, southeastern Colombia).

Range: Ecuador and southeastern Colombia.

***Agyrtrina fluvialitis laeta**[a] (*Hartert*). HARTERT'S EMERALD.

Agyrtria fluvialitis laeta HARTERT, Journ. für Ornith., 1900, p. 360 (Nanta, Peru).
Agyrtria laeta BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 113, No. 1087.

Range: Peru and northwestern Brazil.

2: Peru.

Agyrtrina luciae (*Lawrence*). LUCY'S EMERALD.

Thaumatias luciae LAWRENCE, Proc. Acad. Nat. Sci. Phila., 1867, p. 233 (Honduras).
Agyrtria luciae ELLIOT, Syn. Trochil., 1879, p. 208; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 188; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 434.

Range: Honduras.

[a] *Agyrtrina fluviatilis laeta* (HARTERT): Similar to *A. f. fluvailitis* (GOULD) from Ecuador, but smaller and adult male has only the extreme bases of the middle tail feathers green and the upper half of the feathers steel blue. The immature male has the middle tail feathers metallic green.

***Agyrtrina candida** (*Bourc. and Muls.*). WHITE-BELLIED EMERALD.

Trochilus candidus BOURCIER and MULSANT, Ann. Phys. et Nat., IX, 1846, p. 326 (Coban, Guatemala).

Thaumatias candidus GOULD, Mon. Trochil., V, 1860, pl. 292.

Agyrtria candida SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, pp. 190, 660; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 432.

Range: Southeastern Mexico to Costa Rica.

6: Guatemala 5; "Mexico" 1.

Agyrtrina tephrocephala (*Vieill.*). BRAZILIAN EMERALD.

Trochilus tephrocephalus VIEILLOT, Nov. Dict. d'Hist. Nat., XXIII, 1818, p. 430 (Brazil).

Thaumatias albiventris GOULD, Mon. Trochil., X, 1856, pl. 301.

Agyrtria tephrocephala ELLIOT, Syn. Trochil., 1879, p. 206.

Range: Brazil.

4: British Guiana.

Genus **POLYERATA** Heine.

Polyerata Heine, Journ. fur Ornith., 1863, p. 194, in text (Type *Trochilus amabili* Gould).

***Polyerata amabilis** (*Gould*). BLUE-BREASTED HUMMING BIRD.

Trochilus amabilis GOULD, Proc. Zool. Soc. Lond., 1851, p. 115 ("New Grenada" = Colombia).

Damophila amabilis GOULD, Mon. Trochil., V, 1859, pl. 341; ELLIOT, Syn. Trochil., 1879, p. 234.

Polyerata amabilis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 237; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 523; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 286 (Puerto Valdivia; Alto Bonito, Colombia and Esmeraldas, Ecuador).

Range: Eastern Nicaragua, Costa Rica, Panama, Colombia and northern and western Ecuador.

10: Colombia (Bouqueron 2, "Colombia" 5, Bogota 1); and Panama 2.

***Polyerata rosenbergi** (*Boucard*).[a] ROSENBERG'S HUMMING BIRD.

Polyerata rosenbergi BOUCARD, Gen. Humming Bds., 1895, p. 399 (Rio Dagua, western Colombia); HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1181 (western Colombia); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 287 (western Colombia, numerous localities).

[a] *Polyerata rosenbergi* BOUCARD: Upper parts dark bronze green; median rectrices bronze green; lateral rectrices bronze green at base, then bluish black, the outermost one bluish black; chin and throat metallic emerald green; breast metallic blue with a purplish tinge; abdomen dark sooty gray with a bar of metallic green, feathers separating the blue of the breast from the gray of the abdomen; under tail coverts white; upper mandible black, lower mandible flesh color (in life) with black tip. Wing, about 56; bill, 19 mm.

Polyerata reini BERLEPSCH, Ornith. Monatsb., 1897, p. 58 (western Ecuador).
Agyrtria rosenbergi reini HARTERT, Nov. Zool., V, 1898, p. 496.

Range: Western Colombia and northwestern Ecuador.

5: Colombia 2; Ecuador (Rio Tapero 1 and Ecuador 2).

Polyerata cyanotincta *Gounelle.*[a] BLUE-SPOTTED HUMMING BIRD.

Polyerata cyanotincta GOUNELLE, Rev. Franc. d'Orn., No. 2, 1909, p. 17, pl. 1 (Bogota).

Range: Colombia.

***Polyerata decora** *Salvin.* CHARMING HUMMING BIRD.

Polyerata decora SALVIN, Ann. & Mag. Nat. Hist., VII, 1891, p. 377 (Volcan de Chiriqui, Panama); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 238; RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 525.

Range: Panama and western Costa Rica.

4: Panama (Chiriqui) 2; and Costa Rica (Boruca) 2.

Genus **URANOMITRA**[b] Reichenbach.

Uranomitra Reichenbach, Aufz. d. Col., p. 10, 1853 (Type *Trochilus franciae* Bourcier and Mulsant).

***Uranomitra franciae** (*Bourcier and Mulsant*). FRANCIA'S EMERALD.

Trochilus franciae BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, IX, 1846, p. 324 (Cauca Valley, Colombia).
Cyanomyia franciae GOULD, Mon. Trochil., V, 1860, pl. 287; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 199.
Uranomitra franciae ELLIOT, Syn. Trochil., 1879, p. 197; HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1182; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 287 (Numerous localities in subtropical zone of western and central Andes, Colombia).

Range: Mountains of Colombia.

15: Colombia (Rio Dagua 2, Bogota 1, and "Colombia" 12).

Uranomitra cyaneicollis (*Gould*). BLUE-NECKED EMERALD.

Trochilus cyaneicollis GOULD., Proc. Zool. Soc. Lond., 1853, p. 61 (Peru).
Cyanomyia cyaneicollis BONAPARTE, Rev. Zool., 1854, p. 254; GOULD, Mon. Trochil., V, 1861, pl. 288; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 199.
Uranomitra cyaneicollis ELLIOT, Syn. Trochil., 1879, p. 198.

Range: Peru.

3: Peru (near Balsas).

[a] *Polyerata cyanotincta* GOUNELLE: This species has a general resemblance to *P. amabilis* GOULD, but differs chiefly in having the chin, throat and breast with cobalt-blue scale-marked feathers, which shows a deeper tint with some purplish reflection when viewed from the side; under tail coverts bluish slate (not grayish black); tail blackish blue; the middle rectrices blackish blue (not greenish bronze). Wing, 43; tail, 22, bill, 19 mm.

[b] A questionable Genus, doubtfully separable from *Amazilis*. In this connection, *cf.* Ridgway, Bull. U. S. Nat. Mus. No. 50, V, 1911, pp. 406–407.

Genus **LEPIDOPYGA** Reichenbach.

Lepidopyga Reichenbach, Troch. Enum., 1855, p. 7 (Type *Trochilus goudoti* Bourcier).

***Lepidopyga caeruleogularis** (*Gould*). DUCHASSAIN'S HUMMING BIRD.

Trochilus (——?) *caeruleogularis* GOULD, Proc. Zool. Soc. Lond., 1850, p. 163 (Chiriqui, Panama).

Sapphironia caeruliigularis GOULD, Mon. Trochil., V, 1860, pl. 246.

Cyanophaia caeruleigularis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 233.

Lepidopyga caeruleogularis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 539.

Range: Panama, southwestern Costa Rica and northern Colombia (Cartegina, etc.).

7: Panama.

***Lepidopyga coelina** (*Bourcier*). LAWRENCE'S HUMMING BIRD.

Thalurania coelina BOURCIER, Rev. et Mag. de Zool., 1853, p. 553 (Santa Marta, Colombia).

Sapphironia luminosa LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1862, p. 458 (Barianquilla, Colombia).

Cyanophaia luminosa ELLIOT, Syn. Trochil., 1879, p. 235; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 235.

Lepidopyga coelina SIMON, Rev. Franc. d'Orn., 1909, p. 66 (crit.); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 538; in key; CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 287 (Banco, Algodonal, etc., N. Colombia).

L[epidopyga] (cyanophaia) luminosa SIMON, Rev. Franc. d'Orn., Nos. 5–6, 1909, p. 66, in text (crit.).

Range: Northern Colombia and northwestern Venezuela.

13: Venezuela (Encontrados 5, Orope 5, Catatumbo 1); and Colombia (Cucuta, near Venezuelan line) 2.

Lepidopyga lilliae *Stone*.[a] LILLIAN'S HUMMING BIRD.

Lepidopyga lilliae STONE, Proc. Acad. Nat. Sci., Phila., 1917, p. 203 (Punto Caiman, Santa Marta, Colombia).

Range: Santa Marta region (Punto Caiman), Colombia.

***Lepidopyga goudoti goudoti** (*Bourcier*). GOUDOT S HUMMING BIRD.

Trochilus goudoti BOURCIER, Rev. Zool., VI, 1843, p. 100 (Ybague, Colombia).

Sapphironia goudoti GOULD, Mon. Trochil., pt. 5, 1860, pl. 345.

Cyanophaia goudoti ELLIOT, Syn. Trochil., 1879, p. 239; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 234.

[a] *Lepidopyga lilliae* STONE: Similar to *Lepidopyga caeruleogularis* GOULD, "but lower breast and abdomen glittering blue, instead of green and upper surface darker green with much less bronze iridescence." (Stone, l.c.).

Lepidopyga goudoti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 538, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 287.

Range: Central Colombia (Upper Magdalena River region).

12: "Colombia."

***Lepidopyga goudoti zuliae**[a] subsp. nov. RUI AURARE HUMMING BIRD.

Range: Lake Maracaibo region, northwestern Venezuela.

4: Venezuela, including the type (Rio Aurare 3; La Vaca, Trinidad 1).

***Lepidopyga boucardi** (*Mulsant*). BOUCARD'S HUMMING BIRD.

Arena boucardi MULSANT, Descr. espèce Nouv. Trochil. [presentée Soc. Linn. Lyon, Oct. 12, 1877, and published as a separate paper). (Punta Arenas, Costa Rica).

Arinia boucardi ELLIOT, Syn. Trochil., 1879, p. 209; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 193.

Agyrtria boucardi CARRIKER, Ann. Carnegie Mus., XI, 1910, p. 524.

Lepidopyga boucardi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 541.

Range: Pacific coast region of Costa Rica.

1: Costa Rica.

Genus **SAUCEROTTIA** Bonaparte.

Saucerottia Bonaparte, Consp. Av., I, 1849, p. 77 (Type *Trochilus saucerotti* Bourcier and Delattre).

***Saucerottia cyanifrons** (*Bourcier*). BLUE-CAPPED HUMMING BIRD.

Trochilus cyanifrons BOURCIER, Rev. Zool., VI, 1843, p. 100 (Ybague, Colombia.)

Saucerottia cyanifrons GOULD, Mon. Trochil., V, 1866, pl. 323; HARTERT, Das Tierreich, Trochil., 1900, p. 52 (Monog.); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 436, in key.

Amazilia cyanifrons SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 227.

Range: Colombia.

8: "Colombia."

***Saucerottia saucerottei saucerottei** (*Delattre and Bourcier*). SAUCEROTTE'S HUMMING BIRD.

Trochilus saucerrotei DELATTRE and BOURCIER, Rev. Zool., IX, Sept., 1846, p. 311 (Cali, northwestern Colombia).

Trochilus sophiae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 318 (Bogota).

Amazilia saucerottei ELLIOT, Syn. Trochil., 1879, p. 225; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 223, part.

Eryithronata typica GOULD, Mon. Trochil., V, 1861, pl. 321.

[a] *Lepidopyga goudoti zuliae* subsp. nov.: Type from Rio Aurare (northeast of Lake Maracaibo) western Venezuela. No. 45890, Field Museum of Natural History. Collected by W. H. Osgood and Jewett, January 24, 1911. Similar to *L. goudoti goudoti* (BOURCIER), but wing shorter; top of the head darker and under tail coverts with pale margins decidedly narrower. Wing, 47; tail, 32; bill, 17.

Saucerottia sophiae saucerrotei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 436, in key.

Saucerottia saucerottei saucerottei HELLMAYR, Nov. Zool., XX, 1913, p. 250.

Saucerottia saucerottei CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 288 (Dabeiba, San Antonio, etc., Colombia).

Range: Northwestern and western Colombia.

1: "Colombia."

*Saucerottia saucerottei hoffmanni (*Cab. and Heine*). SOPHIA'S HUMMING BIRD.

Hemithylaca hoffmanni CABANIS and HEINE, Mus. Heine, II, 1860, p. 38 (Costa Rica).

Amazilia sophiae ELLIOT, Syn. Trochil., 1879, p. 224; SALVIN, Cat. Bds. Mus., XVI, 1892, p. 224.

Saucerottia sophiae sophiae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 439.

Saucerottia saucerottei hoffmani HELLMAYR, Nov. Zool., XX, 1913, p. 251.

Range: Costa Rica and Nicaragua.

21: Costa Rica (Limon 1, Orosi 1, San Jose 4); and Nicaragua (San Emilis) 15.

Saucerottea saucerottei warscewicza (*Cabanis and Heine*). WARSCEWICZ'S HUMMING BIRD.

Hemithylaca warscewiczi CABANIS and HEINE, Mus. Heine, III, 1860, p. 38 ("Veragua").

Amazilia warscewiczi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 222, part.

Saucerottia sophiae warscewiczi RIDGWAY, Bull. U. S. Nat. Mus. ,No. 50, V, 1911, p. 436, in key.

Saucerottia saucerottei warscewiczi HELLMAYR, Nov. Zool., XX, 1913, p. 251.

Range: Northern Colombia (Santa Marta district, Rio Magdalena, etc.).

*Saucerottia saucerottei braccata (*Heine*). HEINE'S HUMMING BIRD.

Hemithylaca braccata HEINE, Journ. für Ornith., 1863, p. 193 (Merida, Venezuela).

Saucerottea warscewiczi braccata HARTERT, Das Tierreich, Trochil., 1900, p. 52 (Monog.).

Saucerottia sophiae braccata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 437, in key.

Saucerottia saucerottei braccata HELLMAYR, Nov. Zool., XX, 1913, p. 251.

Range: Andes of western Venezuela.

26: Venezuela, region of Merida (Culati, El Valle, etc.).

Saucerottia alfaroana (*Underwood*). ALFARO'S HUMMING BIRD.

Amazilia alfarcana UNDERWOOD, Ibis, 1896, p. 441 (Volcan de Miravalles, Costa Rica).

Saucerottia cyanifrons alfaroana CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 527 (Crit.).

Saucerottia alfaroana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 441.

Range: Northwestern Costa Rica.

***Saucerottia tobaci tobaci** *Gmelin.* TOBAGO HUMMING BIRD.

Trochilus tobaci GMELIN, Syst. Nat., I, 1788, p. 498 (based on Tobago Hummingbird Latham, Synop., I, pt. 2, p. 781, Tobago).

Amazilia tobaci SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 226.

Saucerottia wellsi BOUCARD, The Humming Bird, III, 1893, p. 8 ("Grenada")?; DELMAS, Bull. Soc. Zool. France, XIII, 1900, p. 142; BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 115, No. 1106.

Amazilis tobaci OBERHOLSER, Proc. Acad. Nat. Sci. Phila., 1899, p. 208.

Saucerottia tobaci tobaci RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 437, in key.

Range: Island of Tobago, W. I.; Grenada?

10: Tobago 8; "Grenada" 2.[a]

***Saucerottia tobaci erythronota** (*Lesson*). TRINIDAD HUMMING BIRD.

Ornismya erythronotus LESSON, Hist. Nat. Ois-Mouches, 1829, p. 181, pl. 61 ("Bresil" = Trinidad).

Amazilia erythronota ELLIOT, Syn. Trochil., 1879, p. 224; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 225.

Saucerottia tobaci erythronota RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 437, in key.

Saucerottea erythronotos erythronotos HELLMAYR, Nov. Zool., XIII, 1906, p. 34.

Range: Island of Trinidad, West Indies.

2: Trinidad.

***Saucerottia tobaci feliciae** (*Lesson*). FELICIA'S HUMMING BIRD.

Ornismya feliciae LESSON, Rev. Zool., III, 1840, p. 72 ("le Bresil, le district de San Jose" = northern Venezuela).

Erythronota feliciae GOULD, Mon. Trochil., V, 1849, pl. 317.

Amazilia feliciae ELLIOT, Syn. Trochil., 1879, p. 234; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 226.

Saucerottia tobaci feliciae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 437, in key; HELLMAYR and SEILERN, Arch. für Naturg., 5 Heft, 1912, p. 139.

Saucerottia erythronota feliciae STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 201 (Cariaquito, Venezuela).

Range: Coast district of Venezuela.

17: Venezuela (Caracas 16, Maracay 1).

***Saucerottia tobaci aliciae** *Richmond.* ALICE'S HUMMING BIRD.

Amazilia aliciae RICHMOND, Auk, 1895, p. 368 (Margarita Island, Venezuela); CORY, Field Mus. Pub., No. 137, 1909, p. 245.

[a] The two specimens labelled Grenada are from the Boucard collection. They agree perfectly with specimens from Tobago.

Saucerottia tobaci aliciae HARTERT, Das Tierreich, Trochil., 1900, p. 55; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 438, in key.

Range: Margarita Island (off Venezuela).

5: Margarita Island.

Saucerottia tobaci monticolor *Todd*.[a] MOUNTAIN HUMMING BIRD.

Saucerottia tobaci monticolor TODD, Proc. Biol. Soc. Wash., XXVI, 1913, p. 174 (Guarico, Estado Lara, Venezuela).

Range: Interior of Venezuela.

Saucerottia tobaci caurensis[b] (*Berlepsch and Hartert*). CAURA VALLEY HUMMING BIRD.

Saucerottia erythronotus caurensis BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 84 (Suapure, Caura River, Venezuela).

Saucerottia caurensis BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 114, No. 1108.

Range: Caura River region, Venezuela.

***Saucerottia viridigaster** (*Bourcier*). GREEN-BELLIED HUMMING BIRD.

Trochilus viridigaster BOURCIER, Rev. Zool., VI, 1843, p. 103 (Fusagasuga, Colombia).

Amazilia viridigaster GOULD, Mon. Trochil., V, 1860, pl. 314.

Amazilia viridiventris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 219, part.

Saucerottia nunezi BOUCARD, The Humming Bird, II, 1892, p. 81 (melanistic).

Saucerottia viridigaster RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 438, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 288 (Quetame, Buena Vista, Villavicencio, eastern Andes, Colombia).

Range: Andes of eastern and east-central Colombia; western Venezuela?

2: Colombia (Cucuta 1, "Colombia" 1).

***Saucerostia iodura** (*Reichenbach*). REICHENBACH'S HUMMING BIRD.

[*Chlorestes*] *iodura* REICHENBACH, Trochil. Enum., 1855, p. 4, pl. 698, Figs. 4560–4561 (Colombia).

Amazilia iodura ELLIOT, Syn. Trochil., 1879, p. 223; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 219.

Saucerottia iodura RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 438, in key and footnote.

Range: Andes of east-central Colombia to Andes of extreme western Venezuela.

17: Colombia (Cucuta 1, "Colombia" 1); and Venezuela (Colon, Tachira, near Colombian line) 14.

[a] *Saucerottia tobaci monticolor* TODD: "Differs from *Saucerottia tobaci feliciae* (LESSON) in being darker, less bronzy green, in general coloration." (Todd, l.c.).

[b] *Saucerottia tobaci cauernsis* (BERLEPSCH and HARTERT): Closely allied to *S. t. erythronotus* (LESSON) from Trinidad, but male with under tail coverts bluish-black with grayish edges (not bronze brown and rufescent); under parts somewhat brighter and more golden green.

Saucerottia inculta *Elliot.*[a] ELLIOT'S HUMMING BIRD.

Eriocnemis incultus ELLIOT, Auk, 1889, p. 210 (Bogota?).
Saucerottia inculta HARTERT, Nov. Zool., IV, 1897, p. 530; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 115, No. 1103.

Range: Colombia?

***Saucerottia cupreicauda** (*Salvin and Godman*). COPPER-TAILED HUMMING BIRD.

Amazilia cupreicauda SALVIN and GODMAN, Ibis, 1884, p. 452 (Mt. Roraima, British Guiana); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 220; SHARPE, Suppl. Gould's Mon. Trochil., 1887, pl. 56.
Saucerottia cupreicauda RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 438, in key; CHUBB, Bds. Brit. Guiana, I, 1916, p. 398.

Range: British Guiana.

2: British Guiana (Mt. Roraima).

***Saucerottia niveoventer** (*Gould*). SNOWY-BREASTED HUMMING BIRD.

Trochilus niveoventer GOULD, Proc. Zool. Soc. Lond., 1850, p. 164 (near David, Veragua, Panama).
Erythronota niveiventris GOULD, Mon. Trochil., V, 1858, pl. 319.
Amazilia niveiventris ELLIOT, Syn. Trochil., 1879, p. 222; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 221.
Saucerottia niveoventer RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 441.

Range: Panama and northern Colombia (Boqueron).

3: Panama.

***Saucerottia edwardi** (*Delattre and Bourcier*). EDWARD'S HUMMING BIRD.

Trochilus edwardi DELATTRE and BOURICER, Rev. Zool., 1846, p. 308 (Panama).
Erythronota edwardi GOULD, Mon. Trochil., V, 1858, pl. 318.
Amazilia edwardi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 221.
Saucerottia edwardi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 443.

Range: Panama and northwestern Ecuador (Santo Domingo).

3: Panama (Veragua).

***Saucerottia cyanura cyanura** (*Gould*). BLUE-TAILED HUMMING BIRD.

Amazilia cyanura GOULD, Mon. Trochil., pt. 18, Sept., 1859, (Vol. V, 1861) pl. 315 (Realejo, Nicaragua); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 212, part.
Saucerottia cyanura impatiens CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 526.

[a] *Saucerottia inculta* ELLIOT: Crown, upper parts, of body, and upper tail coverts bluish black; feathers of rump and upper tail coverts margined with rufous (probably due to immaturity); throat and center of breast dull lead color; feathers of throat edged with white; wings deep purple; sides of breast bluish black; flank blackish; abdomen white, spotted with brown; tail steel blue; feathers of under tail coverts gray in center, glossed with green and edged with white; thigh tufts white; bill black with base of mandible flesh color. Wing, about 55; tail, about 38; bill, 19 mm. M. Simon (Cat. Trochil., 1897, p. 13) believes this bird to be a melanistic variety of *S. viridigaster* (BOURCIER).

Saucerottia cyanura cyanura RIDGWAY, Bull. U.S. Nat. Mus., No. 50, V, 1911, p. 445.

Range: Nicaragua and Costa Rica.

8: Nicaragua (San Geronomo).

***Saucerottia cyanura guatemalae** *Dearborn*. GUATEMALA BLUE-TAILED HUMMING BIRD.

Saucerottia cyanura guatemalae DEARBORN, Field Mus. Pub., No. 125, Orn. Ser. I, No. 3, 1907, p. 97 (Mazatenango, Dept. Suchitepequez, Guatemala); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 446.

Range: Pacific slope of Guatemala and Chiapas.

7: Guatemala (Mazatinango 5, Patulul 2) including the type.

***Saucerottia devillei** (*Bourc. and Muls.*). DEVILLE'S HUMMING BIRD.

Trochilus devillei BOURCIER and MULSANT, Rev. Zool., 1848, p. 272 (Guatemala).
Amazilia devillei GOULD, Mon. Trochil., XIX, 1860 (Vol. V, 1861), pl. 313.
Amazilia devillii SALVIN, Cat. Bds. Brit. Mus., XIV, 1892, pp. 211–660.
Saucerottia devillei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 447.

Range: Guatemala, Yucatan, Chiapas and Salvador.

7: Guatemala (Patalul, Duenas, etc.).

***Saucerottia beryllina beryllina** (*Licht.*). BERRYLLINE HUMMING BIRD.

Trochilus beryllinus LICHTENSTEIN, Preis.-Verz. Mex. Voyg., 1830, p. 1 (Mexico).
Amazilia beryllina GOULD, Mon. Trochil., V, 1861, pl. 312; ELLIOT, Syn. Trochil., 1879, p. 221; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 209, part.
Ornismya arsinoe LESSON, Hist. Nat. Coib. (Suppl. Ois.-Mouches), 1829, p. 154, pls. 28–29 (Mexico).
Saucerottia beryllina beryllina RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 449.

Range: Central and eastern Mexico.

3: Mexico (Cordoba 1, Orizaba 1, Mexico City 1).

Saucerottia beryllina viola (*Miller*). VIOLACEOUS HUMMING BIRD.

Amazilis beryllina viola W. DE W. MILLER, Bull. Am. Mus. N. H., XXI, 1905, p. 353 (Jalpa, Sinaloa, Mexico).
Saucerottia beryllina viola RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 451.

Range: Western Mexico.

Saucerottia sumichrasti (*Salvin*) SUMICHRAST'S HUMMING BIRD.

Amazilia sumichrasti SALVIN, Ann. & Mag. N. H., VII, 1891, p. 376 (Santa Efigenia, Oaxaca); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, pp. 213, 661, pl. 7, Fig. 2.
Saucerottia sumichrasti SIMON, Cat. Trochil., 1897, p. 13; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 451.

Range: Southern Mexico (State of Oaxaca).

Saucerottia ocai (*Gould*). DE OCA'S HUMMING BIRD.

Amazilia ocai GOULD, Ann. & Mag. N. H., Ser. 3, IV, 1859, p. 96 (Jalapa, Vera Cruz); *Id.*, Mon. Trochil., V, 1861, pl. 289; ELLIOTT, Syn. Trochil., 1879, p. 221; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 213.

Saucerottia ocai RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 452.

Range: Southeastern Mexico (State of Vera Cruz).

Genus **GOLDMANIA** Nelson.

Goldmania Nelson, Smith. Misc. Coll., LVI, No. 21, 1911, p. 1 (Type *Goldmania violiceps* Nelson).

Goldmania violiceps *Nelson.* GOLDMAN'S HUMMING BIRD.

Goldmania violiceps NELSON, Smith. Misc. Colls., LVI, No. 21, 1911, p. 1 (Cerro Azul, Northwest of Chepo, Panama, Alt. 3000 ft.); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 453.

Range: Eastern Panama (Region of Cerro Azul).

Genus **GOETHALSIA** Nelson.[a]

Goethsalia Nelson, Smiths. Misc. Coll., Vol. 60, No. 3, 1912, p. 6 (Type *Goethalsia bella* Nelson).

Goethalsia bella *Nelson.*[b] GOETHAL'S HUMMING BIRD.

Goethalsia bella NELSON, Smith. Misc. Coll., Vol. 60, No. 3, 1912, p. 7 (Cana, eastern Panama, 2000 ft. altitude).

Range: Eastern Panama (Cana, 2000 ft. alt. and Mt. Pirri to 5000 ft. alt.).

[a] Genus *Goethalsia* NELSON: "Apparently nearest to *Goldmania*, the three or four middle under tail coverts being shorter than usual and specialized as in that genus, silky white in color and forming a tuft of overlapping or "nested" and strongly decurved stiff plumes about twice as long as in *Goldmania* and more plume-like nearly to base of feathers; other under tail coverts normal and differently colored from middle ones but proportionately smaller than usual; this strong character present in both sexes and in the young as in *Goldmania;* primaries medium width, broader than in *Goldmania* normal in all conditions (?) and outer primary distinctly longer than next one; tail emarginate, nearly three-fifths the length of wing; bill slightly broadened and ridged at base; terete elsewhere and same length as head; nostrials operculate, feathering of forehead extending out about two-thirds of length of nostrils; tarsus bare, except near upper end in front. *Color:* Males on head and body mainly plain metallic green above and below except buffy rufous mask on chin and lores and buffy whitish on posterior abdomen; primaries purplish black; secondaries rufous dark tipped as in *Eupherusa;* tail feathers pale rufous buffy with exposed parts of middle feathers dark bronze green and same color on tips of other feathers decreasing proportionately in width to a fine narrow margin on outer feathers on each side." (Nelson, l.c.).

[b] *Goethalsia bella* NELSON: Male, top of head dull dark bronze green, shading to brighter bronze green on neck and back and into golden bronze on rump; lores and malar area dark reddish rufous, becoming reddish buff on chin; under parts from chin to upper abdomen bright metallic green; crissum buffy and buffy whitish, except longer central under tail coverts, which are satiny-white, overlapping rigidly decurved plumes as in *Goldmani*, but much longer and broader; sides of neck and body greenish bronze; posterior flanks reddish buffy; primaries purplish black; secondaries rusty rufous tipped with bronzy purplish; tail mostly rusty buffy, but exposed parts of two middle feathers dark bronze green and lateral feathers tipped with proportionally decreasing amounts of same to a narrow edging on tip of outer feathers on each side. Wing, 52; tail, 29; culmen, 17 mm.

Genus **AMAZILIS** Gray.

Amazilis Gray, List. Gen. Bds., 1840, p. 14 (Type *A. latirostris* Swainson).

*Amazilis tzacatl tzacatl (*De la Llave*). RIEFFER'S HUMMING BIRD.

Trochilus tzacatl DE LA LLAVE, Registro Trimestre, II, No. 5, 1833, p. 48 (Mexico).
Amazilia or Amazilis tzacatl RICHMOND, Auk, 1899, p. 324, in text.
Amazilia riefferi GOULD, Mon. Trochil., V, 1861, pl. 311; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 216, part (Mexican and Central American references).
Amazilia dubusi SHARPE, Hand List, II, 1900, p. 108.
Amazilia fuscicauda (nec. FRASER) of authors (Mexican and Central American references from Panama, northward).
Amazilis tzacatl tzacatl RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 408, part; (Lower Rio Grande, Texas, Mexico, Central America and Colombia); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 288, crit. (various localities in Colombia).

Range: Southeastern Mexico south to Panama.

22: Costa Rica (Limon 4, Guayabo 11); Nicaragua (San Emilis); 1 Guatemala (Los Animas) 3; Panama (Colon, 2, Chiriqui 1).

*Amazilis tzacatl jucunda[a] (*Heine*). HEINE'S HUMMING BIRD.

Eranna jacunda HEINE, Journ. für Ornith., XI, 1863, p. 188 (Babahoyo, west Ecuador).
Amazilia tzacatl jucunda HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1182; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 289 (crit.).
A. riefferi SCLATER, Proc. Zool. Soc. Lond., 1879, p. 530 (Antioquia).

Range: Low Countries of western Ecuador, and southwestern Colombia.

7: "Colombia" 5; and Ecuador (Peramba) 2.

*Amazilis tzacatl fuscicaudata[b] (*Fraser*). DUSKY-TAILED HUMMING BIRD.

Amazilia fuscicaudata FRASER, Proc. Zool. Soc. Lond., 1840, p. 17 ("Chachapoyas, Peru" = Bogota, Colombia).[c]
A. t. fuscicaudata HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 183, in text.

Range: Andes of eastern Colombia (Bogota, etc.) and Venezuela (Merida).

14: Western Venezuela (Colon, Tachira, near the Colombian line).

[a] *Amazilis tzacatl jucunda* HEINE: Similar to *A. t. tzacatl* (DE LA LLAVE) from Central America in general plumage and length of bill, but differs in having the upper mandible fleshy brown (instead of blackish) and the abdomen decidedly darker smoke-gray.

[b] *Amazilis tzacatl fuscicaudata* (FRASER): Claimed to differ in smaller size and bill shorter and stouter. A somewhat questionable race, but averages shorter especially in specimens from western Venezuela (Colon, Tachira). In this connection *cf.* Chapman, Bull. Am. Mus. N. H., XXXVI, 1917, p. 288 in text.

[c] *Cf.* Salvin, Cat. Bds. Brit. Mus., XVI, 1892, p. 217, in text.

Amazilis lucida[a] (*Elliot*). ELLIOT'S HUMMING BIRD.

Amazilia lucida ELLIOT, Ann. & Mag. Nat. Hist., (4), XX, 1892, p. 404 (Bogota); BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 116.

Amazilis lucida OBERHOLSER, Proc. Acad. Nat. Sci. Phila., 1899, p. 208.

Range: Colombia.

Amazilis castaneiventris (*Gould*). CHESTNUT-VENTED HUMMING BIRD.

Amazilia castaneiventris GOULD, Proc. Zool. Soc. Lond., 1856, p. 150 (Colombia); *Id.*, Mon. Trochil., V, 1861, pl. 310; SALVIN, Cat. Bds. Brit. Mus., XIV, 1892, p. 212.

Range: Colombia.

***Amazilis yucatanensis yucatanensis** (*Cabot*). YUCATAN HUMMING BIRD.

Trochilus yucatanensis CABOT, Proc. Boston Soc. N. H., II, 1845, p. 74 (Yucatan).

Amazilia yucatanensis GOULD, Mon. Trochil., V, 1861, pl. 308; ELLIOT, Syn. Trochil., 1879, p. 219, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 214, part.

Amazilis yucatanensis yucatanensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 412.

Range: Extreme southeastern Mexico (States of Tabasco, Campeche and Yucatan); British Honduras and eastern Guatemala.

2: Yucatan (Iolam).

Amazilis yucatanensis cerviniventris (*Gould*). FAWN-BREASTED HUMMING BIRD.

Amazilius cerviniventris GOULD, Proc. Zool. Soc. Lond., 1856, p. 150 (Cordova, Vera Cruz).

Amazilia cerviniventris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 214, part; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 300, part.

Amazilis yucatanensis cerviniventris RIDGWAY, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 414.

Range: Southeastern Mexico (except extreme southeastern portion).

***Amazilis yucatanensis chalconota** (*Oberholser*). BUFF-BELLIED HUMMING BIRD.

Amazilis cerviniventris chalconota OBERHOLSER, Auk, 1898, p. 32 (Beeville—Brownsville, Texas); *Id.*, p. 188 (correction of type locality).

[a] *Amazilis lucida* (ELLIOT): Somewhat resembles *A. devillei* (BOURC. & MULS.) from Central America, but differs from that and all others of this Genus by its reddish-bronze tail and bronzy-brown upper tail coverts edged with white; upper parts metallic grass-green, darkest on the head; upper tail coverts golden bronze; throat, breast, abdomen and flanks, metallic grass-green; lower abdomen with mouse-colored spot; thighs white and feathers fluffy; under tail coverts dark bronzy-brown edged with white; wings dark purple; tail reddish bronze with tips of lateral rectrices bluish black and their edges reddish bronze (condensed descr.).

A. cerviniventris chalconota HARTERT, Das Tierreich, Trochil., 1900, p. 59.
Amazilis yucatanensis chalconota RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 415.

Range: Lower Rio Grande Valley in Texas and northeastern Mexico.

10: Mexico (Taumalipas 2, Tampico 4); Texas, U. S. A. (Lower Rio Grande 1, Cameron County 3).

***Amazilis amazili** (*Lesson*). LESSON'S HUMMING BIRD.

Ornismya amazili LESSON, Voy. Coqulle, 1830, p. 683 (Peru).
Amazilia pristina GOULD, Mon. Trochil., V, 1861, pl. 303; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 205.
Amazilis amazili OBERHOLSER, Proc. Acad. Nat. Sci. Phila., 1899, p. 207, in text.
Amazilia forreri BOUCARD, The Humming Bird, III, 1893, p. 7 ("Mazatlan, Mexico" = errore[a]).

Range: Western Peru.

2: Peru (Callao 1, "Peru" 1).

Amazilis dumerili (*Lesson*). DUMERIL'S HUMMING BIRD.

Ornismya dumerili LESSON, Hist. Nat. Colobris, Suppl., 1832, p. 172, pl. 36 (Ecuador).
Amazilia dumerili GOULD, Mon. Trochil., V, (1859) 1861, pl. 305; ELLIOT, Syn. Trochil., 1879, p. 218; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 206; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 52.

Range: Western Ecuador.

1: Ecuador (Guayaquil).

Amazilis alticolor (*Gould*). ANDEAN HUMMING BIRD.

Amazilia alticolor GOULD, Proc. Zool. Soc. Lond., 1860, p. 309 ("Puna district of Peru"); *Id.*, Mon. Trochil., V, 1861, pl. 305; ELLIOT, Syn. Trochil., 1879, p. 218; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 206; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 52.

Range: Northern Peru and southern Ecuador.

***Amazilis leucophaea** (*Reichenb.*). WHITE-BREASTED HUMMING BIRD.

Amazilia leucophaea REICHENBACH, Journ. für Ornith., 1854, pp. 10, 24 ("Vulcan Arequipa, Süd-Peru"); GOULD, Mon. Trochil., V, (1859) 1861, pl. 306; ELLIOT, Syn. Trochil., 1879, p. 218; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 205.

Range: Western Peru.

2: Peru (near Otuzco).

***Amazilis rutila rutila** (*Delattre*). CINNAMOMEUS HUMMING BIRD.

Ornismya cinnamomea (not *Ornismya cinnamomeus* Gervaise, 1835) LESSON, Rev. Zool., 1842, p. 175 (Acapulco, Guerrero).

[a] *Cf.* Hellmayr, Nov. Zool., XX, 1913, p. 251.

Ornismya rutila DELATTRE, Echo du Monde Savant., Ser. 2, VII, No. 45, 1843, Col. 1069 (new name to replace *O. cinnamomea* LESSON, preoccupied).

Amazilia cinnamomea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, pp. 207, 660, part; ELLIOT, Syn. Trochil., 1879, p. 219, part.

Amazilis rutila rutila RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 416.

Range: Mexico in States of Sinaloa to Yucatan, eastern Guatemala and south to western Costa Rica.

12: Yucatan 2; Nicaragua (San Geronoma 3, Chinendega 3); Costa Rica (San Mateo) 1; Guatemala (Zacapa) 3.

***Amazilis rutila corallirostris** (*Bourc. and Muls.*). CORAL-BELLIED HUMMING BIRD.

Trochilus corallirostris BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 328 (Escuintla, western Guatemala).

Amazilia corallirostris GOULD, Mon. Trochil., V, (1857) 1861, pl. 307.

Amazilis rutila corallirostris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 419.

Amazilia cinnamomea saturata NELSON, Proc. Biol. Soc. Wash., XII, 1898, p. 63 (Huehuetan Chiapas).

Range: Slope of Guatemala and Chiapas.

6: Guatemala (San Jose 3, Mazatanoango 2, and Pitutul 1).

Amazilis graysoni (*Lawrence*). GRAYSON'S HUMMING BIRD.

Amazilia (Pyrrhophaena) graysoni LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VIII, 1866, p. 404 (Tres Marias Islands, western Mexico).

Amazilia graysoni ELLIOT, Syn. Trochil., 1879, p. 219; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 209; NELSON, North. Am. Fauna, No. 14, 1899, p. 45 (crit.).

Amazilis graysoni OBERHOLSER, Proc. Acad. Nat. Sci. Phila., 1899, p. 207; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 419.

Range: Tres Marias Islands (Maria Madre I.) off western Mexico.

Amazilis bangsi *Ridgway*. BANG'S HUMMING BIRD.

Amazilis bangsi RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 54 (Volcan de Miravalles, northwestern Costa Rica); *Id.*, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 420.

Range: Northwestern Costa Rica (Volcan de Miravalles).

Amazilis virdifrons (*Elliot*). GREEN-FRONTED HUMMING BIRD.

Cyanomyia viridifrons ELLIOT, Ann. & Mag. Nat. Hist., (4) VIII, 1871, p. 266 (Putla, Oaxaca); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 196.

Uranomitra viridifrons ELLIOT, Syn. Trochil., 1879, p. 197; SHARPE in Gould's Mon. Trochil. Suppl., 1885, pl. 49.

Uranomitra querrerensis SIMON, Cat. Trochil., 1897, p. 14.

Amazilis viridifrons RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 421.

Range: Southwestern Mexico.

Amazilis atricapilla[a] (*Simon*). OAXACA HUMMING BIRD.

Uranomitra atricapilla SIMON, Rev. Franc. d'Orn., 1911, p. 129 (State of Oaxaca).[a]

Range: State of Oaxaca, Mexico.

***Amazilis ellioti** (*Berlepsch*). ELLIOT'S HUMMING BIRD.

Uranomitra ellioti BERLEPSCH, Proc. U. S. Nat. Mus., XI, 1889, p. 262 (Mazatlan).

Cyanomyia verticalis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 194.

Cyanomya quadricolor GOULD, Mon. Trochil., IX, 1855 (Vol. V, 1861) pl. 284.

Amazilis verticalis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 422.

Amazilis ellioti HELLMAYR, Nov. Zool., XX, 1913, p. 252.

Range: Western and central Mexico.

4: Mexico (Guernavaca 1, "Mexico" 3).

***Amazilis violiceps** (*Gould*). VIOLET-CROWNED HUMMING BIRD.

Cyanomya violiceps GOULD, Ann. & Mag. Nat. Hist., IV, 1859, p. 97 (Atlixco, Puebla); *Id.*, Mon. Trochil., V, 1860, p. 285; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 196.

Uranomitra violiceps ELLIOT, Syn. Trochil., 1879, p. 196.

Amazilis violiceps RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 424.

Range: Southern Mexico.

7: Mexico (Cuenavaca 1, Palisco 1, Guerrero 4, and Oaxaca 1).

Amazilis derneddei[b] (*Simon*). DERNEDDE'S HUMMING BIRD.

Uranomitra derneddei SIMON, Rev. Franc. d'Orn., 1911, p. 129 (Puebla, Mexico).

Range: State of Puebla, Mexico.

***Amazilis cyanocephala cyanocephala** (*Lesson*). RED-BILLED AZURE CROWN.

Ornismya cyanocephalus LESSON, Hist. Nat. Ois.-Mouches, 1829, p. XLV ("Bresil").

[a] *Amazilis atricapilla* (SIMON): Upper part of body grayish bronze-olive, tinged with green on forward part with the head dull sooty, very lightly tinged with green; under part of body entirely white; sides of abdomen grayish-fawn; sides of throat and breast gray-bronze; under tail feathers white; rectrices beneath pale reddish copper color; upper tail coverts and upper surface of middle rectrices brilliant deep reddish copper color which shades to black at the end. Bill, 19½ mm.

[b] *Amazilis derneddei* (SIMON): Upper part of body dull grayish-olive, lightly tinted with bronze-olive at the shoulder; head deep blue-violet, duller in front and not passing the vertex (several isolated violet feathers on the neck); upper tail coverts bronze or violet, slightly edged with gray; under parts of body entirely pure white; flanks of abdomen on each side beneath the wings tinged with gray fawn-color, without any tinge of green; throat and breast bordered on each side dull grayish-olive; under tail coverts white; under surface of rectrices pale copper colored, the median ones deep dull bronze-violet, but tinted with reddish copper color. Wing, 60 to 64; bill, 21 to 21½ mm. This species somewhat approaches *A. violiceps* GOULD.

Cyanomyia cyanocephala GOULD, Mon. Trochil., V, 1856, pl. 286; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 197, part.
Amazilis cyanocephala cyanocephala RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 425; HELLMAYR, Nov. Zool., XX, 1913, p. 252, in text.
Trochilus verticalis LICHTENSTEIN, Preis.-Verz. Mex. Vog., 1830, p. 1.

Range: Southeastern Mexico.

1: "Mexico."

***Amazilis cyanocephala guatemalensis** (*Gould*). GUATEMALAN AZURE CROWN.

Cyanomyia guatemalensis GOULD, Introd. Trochil., 1861, p. 148 (Guatemala); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 198.
Amazilis cyanocephala guatemalensis RIDGWEY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 427.

Range: Guatemala, British Honduras, Honduras and northern Nicaragua.

4: Nicaragua (San Raphael de Norte 2) and Guatemala 2.

***Amazilis microrhyncha** (*Elliot*). SMALL-BILLED AZURE CROWN.

Cyanomyia microrhyncha ELLIOT, Ibis, 1876, p. 316 (Honduras?); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 197.
Amazilis microrhyncha RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 428.

Range: Honduras.

Amazilis salvini (*Brewster*). SALVIN'S AZURE CROWN.

Cyanomyia salvini BREWSTER, Auk, X, 1893, p. 214 (Nacosari, Sonora).
Amazilis salvini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 429.

Range: Known only from northwestern Mexico (State of Sinaloa) and southern Arizona (Cochise County).

Genus **PHAEOPTILA**[a] Gould.

Phaeoptila Gould, Mon. Trochil., V, 1861, text to pl. 340 (Type *Cyanomyia* (*?*) *sordida* Gould).

***Phaeoptila sordida** (*Gould*). DUSKY HUMMING BIRD.

Cyanomyia (?) *sordida* GOULD, Ann. & Mag. Nat. Hist., IV, 1859, p. 97 (Oaxaca, Mexico).
Phaeoptila sordida GOULD, Mon. Trochil., V, 1861,pl.340;ELLIOT,Syn.Trochil., 1879, p. 10; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 63; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 367.
Phaeoptila zonura GOULD, Introd. Trochil., 1861, p. 170 (Bolanos, Jalisco).

Range: Western and southern Mexico.

6: Mexico (Guerrero 5, and Cuenemarca 1).

[a] *Cf.* Ridgway, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 367, in text.

Genus **CYNANTHUS** Swainson.

Cynanthus Swainson, Philos Mag. N. S., I, 1827, p. 441 (Type *C. latirostris* Swainson).[a]

***Cynanthus latirostris** *Swainson*. BROAD-BILLED HUMMING BIRD.

Cynanthus latirostris SWAINSON, Philos. Mag., N. S., I, 1827, p. 441 ("table lands" of Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 370.
Circe latirostris GOULD, Mon. Trochil., V, 1861, pl. 338.
Iache latirostris ELLIOT, Syn. Trochil., 1879, p. 235; Am. Orn. Union Check List, 1886, No. 441; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 60.
?*Hylocharis magica*[b] MULSANT and VERREAUX, Classif. Trochil., 1866, p. 38 (Mazatlan).
?*Iache magica* SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 61.

Range: Mexico, except extreme southern States (Oaxaca, Chiapas, Yucatan, etc.) and north to southern Arizona).

10: Mexico (Trixpam, Jalisco, 3, Oposura Sonora 1); Arizona (Huachuca Mts. 4, Calabasas 1, Catalina Mts. 2).

Cynanthus lawrencei (*Berlepsch*). LAWRENCE'S HUMMING BIRD.

Iache lawrencei BERLEPSCH, Ibis, 1887, p. 292 (Tres Marias Islands, western Mexico); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 61.
Cynanthus lawrencei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 373.

Range: Tres Marias Islands (Cleofa and Maria Madre Islands) off western Mexico.

Cynanthus doubledayi (*Bourcier*). DOUBLEDAY'S HUMMING BIRD.

Trochilus doubledayi BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 46 ("Rio Negro" =State of Guerrero, Mexico?[c]).
Circe doubeldayi GOULD, Mon. Trochil., V, 1860, pl. 339 (Chinantla, Guerrero).
Iache doubledayi ELLIOT, Syn. Trochil., 1879, p. 235; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 62.
Iache nitida SALVIN and GODMAN, Ibis, 1889, p. 240 (Acapulco and Rio Papagaio, Guerrero.

Range: Southwestern Mexico in States of Guerrero and Oaxaca?[a]

Genus **BASILINNA** Boie.

Gasilinna Boie, Isis, 1831, p. 546 (Type *Trochilus leucotis* Vieillo).

***Basilinna leucotis leucotis** (*Vieillot*). WHITE-EARED HUMMING BIRD.

Trochilus leucotis VIEILLOT, Nouv. Dict. d'Hist. Nat., ed. 2, XXIII, 1818, p. 428 ("Bresil" =Mexico?).

[a] *Cf.* Stone, Auk, 1907, p. 192.

[b] *Cf.* Ridgway, Bull. U. S. Nat. Mus. No. 50, V, 1911, p. 373, footnote.

[c] The type probably came from State of Guerrero, Mexico. Ridgway suggests the possibility of the Oaxaca bird being separable subspecifically (*cf.* Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 376 footnote).

Basilinna leucotis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 252; Am. Orn. Union Check List, 2nd ed., 1895, p. 206 (except Nicaragua).
Heliopaedica melanotis GOULD, Mon. Trochil., II, (pt. XV, 1858), pl. 64.
Basilinna leucotis leucotis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 378.

Range: Mountains of southeastern Arizona, south through highlands of Mexico to Guatemala.

6: Mexico (Oaxaca 1, "Mexico" 2); Guatemala (Lake Atitlan 2, Tecpam 1).

***Basilinna leucotis pygmaea** *Simon and Hellmayr*. LESSER WHITE-EARED HUMMING BIRD.

Basilinna leucotis pygmaea SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 12 (Matagalpa, Nicaragua); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 381.

Range: Nicaragua.

1: Nicaragua (Jinotiga).

***Basilinna xantusii** (*Lawrence*). XANTUS'S HUMMING BIRD.

Amazilia xantusii LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VII, 1860, p. 109 (Cape San Lucas).
Heliopaedica xantusi GOULD, Mon. Trochil., II, 1861, pl. 65.
Heliopaedica castaneocauda ELLIOT, Illust. Bds. N. Am., I, 1869, pl. 22.
Basilinna xantusi — Am. Orn. Union Check List, 3rd Ed., 1910, p. 206; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 255; BREWSTER, Bull. Mus. Comp. Zool., XLI, 1902, p. 112.
Basilinna xantusii RIDGWAY, Bull. U. S. Nat. Mus. ,No. 50, V, 1911, p. 382.

Range: Southern Lower California, rarely north to about latitude 29°.

3: Lower California (La Paz 3, Cocachiles Mts. 1).

Genus **HYLOCHARIS**[a] Boie.

Hylocharis Boie, Isis, 1831, p. 546 (Type *Trochilus saphirinus* Gmelin).

***Hylocharis grayi** (*Delattre and Bourcier*). BLUE-HEADED SAPPHIRE.

Trochilus grayi DELATTRE and BOURCIER, Rev. Zool., 1846, p. 307 (Popayan).
Eucephala grayi GOULD, Mon. Trochil., V, 1861, pl. 330; ELLIOT, Syn. Trochil., 1879, p. 228; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 239.
Hylocharis grayi OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 317 (Northern Ecuador and southern Colombia); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 289 (Cauca Valley, Colombia and southward to northern Ecuador).

Range: Southern Colombia and northern Ecuador.

4: Ecuador (Gualea 1, "Ecuador" 2); Colombia (Cali 1).

[a] I cannot find any structural differences to distinguish the Genus *Eucephala* Reich., 1854, from *Hylocharis* and have followed Hartert and Oberholser in uniting them.

Hylocharis humboldti (*Bourc. and Muls.*) HUMBOLDT'S SAPPHIRE.

Trochilus humboldti BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon (2) IV, 1852, p. 142 (River Mira, Esmeraldas).

Chrysuronia humboldti GOULD, Mon. Trochil., V, (1859) pl. 327; ELLIOT, Syn. Trochil., 1879, p. 168; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 250.

Eucephala humboldti SIMON and DELMAS, Ornis, 1901, p. 210; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 116.

Hylocharis humboldti CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 289 (Buenaventura; Tumaco, Colombia).

Range: Western Ecuador and southwest Colombia.

1: Ecuador (Veguina).

***Hylocharis ruficollis ruficollis** (*Vieillot*). RUFOUS-THROATED SAPPHIRE.

Trochilus ruficollis VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 362 (Paraguay).

Chrysuronia chrysura GOULD, Mon. Trochil., V (May, 1860), p. 329.

Chrysuronia ruficollis GRANT, Ibis, 1911, p. 317; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 251.

Hylocharis ruficollis HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 222; CHUBB, Ibis, 1910, p. 268.

Range: Paraguay, Northern Argentina and southeastern Brazil to Rio Grande do Sol and Santa Catharina.

***Hylocharis ruficollis maxwelli**[a] *Hartert.* MAXWELL'S SAPPHIRE.

Hylocharis ruficollis maxwelli HARTERT, Nov. Zool., V, 1898, p. 519 (near Rio Beni, eastern Bolivia); SIMON, Bull. Mus. d'Hist. Nat., 1912, No. 8, p. 501 (Cambara, Matto Grosso); IHERING, Revis, Mus., Paulista, VI, 1904, p. 356 (Sao Paulo).

Range: Eastern Bolivia and central and south central Brazil (west Sao Paulo, Matto Grosso and Minas Geraes).

2: "Bolivia."

***Hylocharis cyanus cyanus** (*Vieillot*). WHITE-THROATED SAPPHIRE.

Trochilus cyanus VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, 1818, p. 426 ("Bresil").

Hylocharis cyanea GOULD, Mon. Trochil., V (May, 1852), pl. 344; ELLIOT, Syn. Trochil., 1879, p. 237; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 246; HARTERT, Nov. Zool., V, 1898, p. 520.

Hylocharis cyanus cyanus HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 152.

Range: Coast region of eastern Brazil (Bahia to S. Paulo).

5: Brazil (Bahia 4, "Brazil" 1).

[a] *Hylocharis ruficolis maxwelli* Hartert: Similar to *H. r. ruficollis* (Vieil.), but size smaller and bill much shorter.

[b] *Hylocharis cyanus cyanus* (VIEILLOT): Rump with strong coppery gloss; abdomen mixed with gray; back lighter green.

***Hylocharis cyanus rostrata**[a] (*Boucard*). LARGE-BILLED SAPPHIRE.

Hylocharis rostrata BOUCARD, Gen. Humming Birds, 1895, p. 400 (Rioja).

Hylocharis cyanus rostrata HARTERT, Nov. Zool., V, 1898, p. 520; SIMON, Bull. Mus. d'Hist. Nat., 1912, No. 8, p. 501 (Cambara, Matto Grosso).

H. cyanus rostrata HARTERT, Das Tierreich, Trochil., 1900, p. 67 (Rioja, Peru; Rio Beni, Bolivia).

Range: East Peru, east Bolivia and western Brazil.

4: Peru (Rioja 2, Moyobamba 1, Iquitos 1).

***Hylocharis cyanus viridiventris**[b] (*Berlepsch*). GREEN-VENTED SAPPHIRE.

Hylocharis viridiventris BERLEPSCH, Ibis, 1880, p. 113 (Merida); CHUBB, Bds. Brit. Guiana, I, 1916, p. 400.

Hylocharis cyanus viridiventris HELLMAYR, Nov. Zool., 1898, p. 520; *Id.*, XIII, 1906, p. 376; BERLEPSCH, Nov. Zool., XV, 1908, p. 267; STONE, Proc. Acad. Nat. Sci. Phila., 1913, p. 202 (Cariaquito, Venezuela).

Range: Venezuela, Guiana and northern Brazil.

4: (Surinam, near Paramaribo, 2; British Guiana 2).

***Hylocharis sapphirina sapphirina** (*Gmel.*). GUIANA SAPPHIRE.

Trochilus sapphirina GMELIN, Syst. Nat., I, 1788, p. 496 (Guiana).

Hylocharis sapphirina GOULD, Mon. Trochil., V (1852), 1860, p. 342; ELLIOT, Syn. Trochil., 1879, p. 236; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 245; HARTERT, Nov. Zool., V, 1898, p. 520, in text; HELLMAYR, Nov. Zool., XIII, 1906, p. 376; *Id.*, XVII, 1910, p. 375; CHUBB, Bds. Brit. Guiana, I, 1916, p. 400.

Hylocharis guianensis BOUCARD, The Humming Bird, I, 1891, p. 52 (British Guiana).

Range: Guiana and Venezuela to N. E. Brazil.

3: British Guiana (Annai 2, Potaro 1).

***Hylocharis sapphirina latirostris**[c] (*Wied.*). MAXIMILIAN'S SAPPHIRE.

Trochilus latirostris WIED, Beitr. Naturg. Bras., IV, I, 1832, p. 64 (Belmonte, Bahia).

Hylocharis latirostris BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 117.

Hylocharis brasiliensis BOUCARD, The Humming Bird, III, 1893, p. 7 (Brazil).

Hylocharis sapphirina GOELDI, Alb. de Aves Amazon, pt. 3, 1905, pl. 45.

Range: Eastern Brazil. S. Brazil. ? N. Argentine. ?

3: Brazil (Bahia 1, "Brazil" 2).

[a] *Hylocharis cyanus rostrata* BOUCARD: Back, and rump less coppery; abdomen deeper green; head and throat somewhat lighter.

[b] *Hylocharis cyanus viridiventris* BERLEPSCH: Coloration more bluish and less golden green.

[c] *Hylocharis sapphirina latirostris* (WIED): Larger; bill and wing longer; upper parts more golden green; breast more bluish.

Hylocharis pyropygia[a] *Salvin and Godman.* RED-RUMPED SAPPHIRE.

Hylocharis pyropygia SALVIN and GODMAN, Ibis, 1881, p. 596, pl. XVI (?Bahia); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 241; SIMON and HELLMAYR, Nov. Zool., XVI, 1908, p. 10.

Range: Eastern Brazil.

***Hylocharis eliciae** (*Bourc. and Muls.*). ELICIA'S SAPPHIRE.

Trochilus eliciae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 314 (type locality?).

Chrysonia eliciae GOULD, Mon. Trochil., pt. XVI, 1858 (Vol. V, 1860), pl. 328; ELLIOT, Syn. Trochil., 1879, p. 169; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 251.

Hylocharis eliciae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 384.

Range: Extreme southern Mexico, Guatemala, Salvador, Honduras, Nicaragua and Costa Rica to western Panama.

5: Nicaragua (San Geronomo 1); Guatemala (Vera Paz 2); Costa Rica (Boruca 1, Lagarto 1).

Genus **CHRYSURONIA** Bonaparte.

Chrysuronia Bonaparte, Consp. Av., I, 1850, p. 75 (Type *Ornismya oenone* Lesson).

Chrysuronia oenone oenone (*Lesson*). LESSON'S SAPPHIRE.

Ornismya oenone LESSON, Hist. Nat. Ois.-Mouches, Suppl., 1832, p. 157, pl. 30 ("la Trinite").

Chrysuronia oenone GOULD, Mon. Trochil., V, 1860, pl. 325; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 248.

Chrysuronia oenone oenone HARTERT, Nov. Zool., V, 1898, p. 519; HELLMAYR, Nov. Zool., XIII, 1906, p. 59; HELLMAYR and SEILERN, Arch. fur Naturg., A 5 Heft, 1912, p. 139.

Range: Venezuelan and eastern Ecuador; Trinidad?

2: "Trinidad" (from Boucard collection).

***Chrysuronia oenone longirostris**[b] *Berlepsch.* LONG-BILLED SAPPHIRE.

Chrysuronia longirostris BERLEPSCH, Journ. fur Ornith., 1887, p. 333 (Bogota).

Chrysuronia oenone longirostris HARTERT, Nov. Zool., V, 1898, p. 519.

Range: Andes of eastern Colombia.

3: "Colombia" 1; "northern Ecuador" 2.

[a] *Hylocharis pyropygia* SALV. & GODMAN: Somewhat resembles *Hylocharis cyanus cyanus* (VIEILL.), but top of head brilliant greenish blue (not bluish violet); under parts of body bluish green, passing to equally brilliant green on the abdomen.

[b] *Chrysuronia oenone Longirostris* BERLEPSCH: Similar to *C. e. oenone* (LESSON) but bill longer.

***Chrysuronia oenone intermedia**[a] *Hartert.* HARTER'S SAPPHIRE.

Chrysuronia oenone intermedia HARTERT, Nov. Zool., V, 1898, p. 519 (Upper Amazon).

C. oenone intermedia HARTERT, Das Tierreich, Trochil., 1900, p. 69.

Range: Eastern Peru.

2: Peru (Rioja 1, Pebas 1).

***Chrysuronia oenone josephinae**[b] (*Bourc. and Muls.*). JOSEPHINE'S SAPPHIRE.

Ornismya josephinae BOURCIER and MULSANT, Rev. Zool., 1848, p. 272 (Bolivia).

Chrysuronia neera SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 249.

Chrysuronia josephinae GOULD, Mon. Trochil., V, 1859, pl. 326.

Chrysuronia oenone josephinae HARTERT, Nov. Zool., V, 1898, p. 519.

Agyrtria alleni ELLIOT, Auk, 1888, p. 263 (Bolivia).

Range: Bolivia.

1: "Bolivia."

Genus **CHLORESTES** Reichenbach.

Chlorestes Reichenbach, Journ. fur Ornith., 1854; Aufz. d. Col. p. 7 (Type *T. cyanogenys* Wied = *T. notatus* Reich).

***Chlorestes notatus notatus** (*Reich.*). BLUE-CHINNED SAPPHIRE.

Trochilus notatus REICHENBACH, Mag. des Thierreichs (Erlangen) I, ab. 3, 1795, p. 129 (Cayenne).

Trochilus caeruleus VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 361.

Hylocharis caerulea PELZELN, Zur. Orn. Bras., II, 1868, p. 33 (Borba).

Eucephala caerulea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 241; GOULD, Mon. Trochil., V, 1860, pl. 335.

Chlorestes caeruleus[c] HELLMAYR, Nov. Zool., XIV, 1907, pp. 77–396.

Chlorestes notatus BERLEPSCH, Nov. Zool., XV, 1908, p. 266; HELLMAYR, Nov. Zool., XVII, 1910, p. 376; HELLMAYR and SEILERN, Arch. fur Naturg., A, 5 Heft, 1912, p. 140; CHUBB, Bds. Brit. Guiana, I, 1916, p. 401.

Range: Guiana, Trinidad, Tobago, North Brazil, Venezuela and eastern Ecuador.

6: British Guiana 1; Trinidad 1; Dutch Guiana 1; "Ecuador" 1; locality ? 1.

***Chlorestes notatus puruensis**[d] *Riley.* PURUS RIVER SAPPHIRE.

Chlorostilbon puruensis RILEY, Proc. Biol. Soc. Wash., XXVI, 1913, p. 63 (Hyutaniban, Purus River, Brazil); *Id.*, XXVIII, 1915, p. 183.

[a] *Chrysuronia oenone intermedia* HARTERT: Similar to *C. e. oenone* (LESSON), but wing shorter and chin only blue.

[b] *Chrysuronia oenone josephinae* (BOURC. & MULS.): All under surface glittering green no blue on chin or throat; wing shorter.

[c] *Cf.* Hellmayr, Novit. Zool., XX, 1913, p. 248.

[d] *Chlorestes notatus puruensis* (RILEY): Similar to *C. n. notatus* (REICH.), but with longer bill and chin somewhat less blue. Bill, 18 to 19.5 mm.

Chlorestes caeruleus puruensis RILEY, Proc. Biol. Soc. Wash., XXVIII, 1913, p. 183, in text.

Range: Purus River Region, western Brazil.

Chlorestes hypocyaneus (*Gould*). BLUE-BREASTED SAPPHIRE.

Eucephala hypocyanea GOULD, Proc. Zool. Soc. Lond., 1860, p. 306 (Brazil); *Id.*, Mon. Trochil., V, 1861, pl. 334; ELLIOT, Syn. Trochil., 1879, p. 230; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 244.

Chlorestes hypocyaneus SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 11.

Range: Brazil.

Chlorestes subcaeruleus (*Elliot*). ELLIOT'S BLUE-BREASTED SAPPHIRE.

Eucephala subcaerulea ELLIOT, Ibis, 1874, p. 87 (Bahia); *Id.*, Syn. Trochil., 1879, p. 230; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 244; SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 11.

Range: Brazil.

Genus **DAMOPHILA** Reichenbach.

Damophila Reichenbach, Aufz. der Colib., 1854, p. 7 (Type *Ornismya juliae* Bourcier).

***Damophila juliae juliae** (*Bourcier*). JULE'S HUMMING BIRD.

Ornismya juliae BOURCIER, Ann. Sci. Phys. et Nat. Lyon, V, 1842, p. 345, pl. 21 (Tunja, near Bogota, Colombia).

Damophila juliae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 236, part.

Juliamya typica GOULD, Mon. Trochil., V, 1861, pl. 337.

Damophila juliae juliae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, 1911, V, p. 519; CHAPMAN, Bull. Am. Mus. Nat. Hist., XXXVI, 1917, p. 290 (Honda).

Range: Colombia (Bogota, Lower Magdalena, etc.) and Panama.

5: "Colombia."

***Damophila juliae feliciana** (*Lesson*[a]). FELICIAN HUMMING BIRD.

Ornismya feliciana LESSON, Rev. Zool., VII, 1844, p. 433 (Guayaquil, W. Ecuador).

Damophila juliae feliciana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 519, in key.

Range: Western Ecuador.

3: Ecuador (Chimbo 2, "Ecuador" 1).

***Damophila panamensis** *Berlepsch*. PANAMA HUMMING BIRD.

Damophila panamensis BERLEPSCH, Journ. fur Ornith., 1884, p. 312 (Panama and Veragua); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 237; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 521.

Range: Panama and Costa Rica?

4: Panama.

[a] *Damophila juliae feliciana* (LESSON): Similar to *D. j. juliae* (BOURCIER), but crown clear metallic green (like throat) and blue of under parts more violaceus.

Genus **CHLOROSTILBON** Gould.

Chlorostilbon Gould, Mon. Trochil., pt. V, 1853, sub. pl. 355; *Id.*, Introd. Trochil., 1861, p. 175 (Type *Ornismya prasina* Lesson); *Panychlora* Cabanis and Heine, Mus., Heine, III, 1860, p. 49 (Type *Trochilus aliciae*[a] Bourcier).

*Chlorostilbon aureoventris (*d'Orb. and Lafr.*). GLITTERING EMERALD.

Ornismya aureoventris D'ORBIGNY and LAFRESNAYE, Syn. Av. Mag. de Zool., VIII, cl. II, 1838, p. 28 (Bolivia).

Chlorostilbon phaeton GOULD, Mon. Trochil., V, 1861, pl. 354.

Chlorostilbon splendidus ELLIOT, Ibis, 1875, p. 165; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 49; GRANT, Ibis, 1911, p. 318 (Paraguay and northern Argentina).

Chlorostilbon aureiventris CHUBB, Ibis, 1910, p. 268; SIMON, Bull. Mus. d'Hist. Nat., 1912, p. No. 8, p. 501.

Range: Bolivia, Paraguay, northern Argentina and southwestern Brazil.

1: "Bolivia."

Chlorostilbon aureoventris egregius[b] (*Heine*). TAQUARA EMERALD.

Chlorostilbon egregius HEINE, Journ. fur Ornith., 1863, p. 197 (Taquara, southern Brazil); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 50, in text.

C. aureoventris egregius HARTERT, Das Tierreich, Trochil., 1900, p. 73.

Range: Southern Brazil.

*Chlorostilbon aureoventris pucherani (*Bourc. and Muls.*). PUCHERAN'S EMERALD.

Trochilus pucherani BOURCIER and MULSANT, Rev. Zool., 1848, p. 271 ("le Bresil").

Chlorostilbon prasinus GOULD, Mon. Trochil., V (1853), 1861, pl. 355.

Chlorostilbon pucherani SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 50; HARTERT, Nov. Zool., IV, 1897, p. 151.

Chlorostilbon wiedi BOUCARD, Gen. Humming Birds, 1894, p. 120 (Brazil).

Chlorostilbon aureoventris pucherani HELLMAYR, Nov. Zool., XV, 1908, p. 75.

Range: Eastern and central Brazil.

19: Brazil (Jua, Ceara 9, Iquato, Ceara 4, Quixada, Ceara 1, Bahia 2, and Minas Geraes 3).

[a] Although Brabourne and Chubb recognize the Genus *Panychlora*, I am unable to find any constant characters which distinguish it from *Chlorostilbon* and have, therefore, followed Sharpe in uniting them. See also, Ridgway, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 548, in text.

[b] *Chlorostilbon aureoventris egregius* HEINE: Intermediate in size and coloration. between *aureoventris* and *pucherani*.

Chlorostilbon auriceps (*Gould*). GOLDEN-CROWNED EMERALD.

Trochilus auriceps GOULD, Jardine's Contr. Orn., 1852, p. 137 (Mexico).
Chlorostilbon auriceps GOULD, Mon. Trochil., V, 1857, pl. 350; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 45; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 551.

Range: Southwestern and west-central Mexico.

***Chlorostilbon forficatus** *Ridgway*. COZUMEL EMERALD.

Chlorostilbon forficatus RIDGWAY, Descr. New Species Bds. Cozumel, 1885, p. 3 (Cozumel Island, Yucatan); *Id.*, Proc. Biol. Soc. Wash., III, 1885, p. 3; *Id.*, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 552.

Range: Cozumel, Mugeres and Halbox Islands, off Yucatan.

2: Cozumel Island, Yucatan.

***Chlorostilbon canivetii canivetii** (*Lesson*). CANIVET'S EMERALD.

Ornismya canivetii LESSON, Hist. Nat. Colibr., Suppl. Ois.-Mouches, 1830–31, p. 174, pls. 37–38 ("Bresil").
Chlorostilbon caniveti GOULD, Mon. Trochil., V, 1860, pl. 351; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 46, part.
Chlorostilbon canivetii canivetii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 553.

Range: Southeastern Mexico (including Yucatan) to British Honduras.

4: "Mexico" 3; Yucatan 1.

***Chlorostilbon canivetii osberti** *Gould*. GUATEMALAN EMERALD.

Chlorostilbon osberti GOULD, Proc. Zool. Soc. Lond., 1860, p. 309 (Guatemala).
Chlorostilbon canivetii osberti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 556.

Range: Guatemala, Honduras and Salvador.

5: Guatemala (Zacapa 4, San Jose 1).

***Chlorostilbon canivetii salvini** (*Cabanis and Heine*). SALVIN'S EMERALD.

Chlorostilbon salvini CABANIS and HEINE, Mus. Heine, III, 1860, p. 48 (Costa Rica).
Chlorolampis salvini CABANIS, Journ. fur Ornith., 1862, p. 164.
Chlorostilbon canivetii salvini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 557.

Range: Costa Rica and Nicaragua.

5: Costa Rica (San Jose).

Chlorostilbon assimilis *Lawrence*. ALLIED EMERALD.

Chlorostilbon assimilis LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VII, 1862, p. 292 (Lion Hill, Panama Railway); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 54; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 558.

Range: Panama and Costa Rica.

4: Panama (Veragua 1, Colon 1); Costa Rica (Boruca 1, Talamaca 1).

Chlorostilbon caribaeus caribaeus *Lawrence*. CARIBBEAN EMERALD.

Chlorostilbon caribaeus LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., X, 1874, p. 13 (Curacao); CORY, Field Mus. Pub., No. 137, 1909, pp. 200, 206, 212, 245; HELLMAYR, Nov. Zool., XIII, 1906, p. 35; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 559.

Chlorostilbon atala (not *O. atala* Lesson) GOULD, Mon. Trochil., V, 1861, pl. 356; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 55.

Chlorostilbon caribbaeus LOWE, Ibis, 1907, p. 559.

(?) *Chlorostilbon caribbeus lessoni* SIMON and DELMAS, Ornis, XI, 1901, p. 212.[a]

Range: Islands of Curacao, Aruba, Bonaire, Margarita and Trinidad and adjacent coast of Venezuela.

***Chlorostilbon caribaeus nanus**[b] *Berlepsch and Hartert*. CAICORA EMERALD.

Chlorostilbon caribaeus nanus BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 86 (Caicara, Middle Orinoco region, Venezuela).

Range: Middle Orinoco region, Venezuela.

†34: Trinidad 1; Margarita 4; Bonaire I. 3; Aruba I. 7; Curacao I. 14; Venezuela (Maracay 2 and Caracas 3).

***Chlorostilbon gibsoni** (*Fraser*). GIBSON'S EMERALD.

Trochilus gibsoni FRAZER, Proc. Zool. Soc. Lond., 1840, p. 17 (no locality given = Colombia;[c] type based on a female).

Trochilus angustipennis FRAZER, Proc. Zool. Soc. Lond., 1840, p. 18 (based on male *gibsoni*).

Chlorostilbon angustipennis SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1879, p. 531 (Medillen); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 52.

Chlorostilbon speciosus BOUCARD, The Humming Bird, 1892, p. 79; HARTERT, Nov. Zool., IV, 1897, p. 151, in text (crit.).

Chlorostilbon gibsoni CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 290 (Chicoral; Rio Toche; San Augustin, etc.).

Range: Colombia.

9: Colombia ("Colombia" 8, Antioquia 1).

***Chlorostilbon haeberlini** (*Reichenbach*). HAEBERLIN'S EMERALD.

Chlorestes haeberlini REICHENBACH, Aufz. d. Col., p. 7; *Id.*, Handb. Orn. Trochil., Enum., 1855, p. 4, pl. 703, Figs. 4578–80 (Colombia); ALLEN, Bull. Am. Mus. N. H., XIII, 1900, p. 141 (Valencia and Bonda, Colombia); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 290 (suggests Bonda, Santa Marta, as type locality).

[a] *Chlorostilbon caribbeus lessoni* SIMON and DELMAS: This supposed race (type from Andes of Cumana, Cuidad, Bolivar, northern Venezuela) agrees with birds from Trinidad and Curacao in length of bill, tail, etc., but the breast averages more bluish (*cf.* Berlepsch & Hartert, Nov. Zool., IX, 1902, p. 86, in text, also, Hellmayr, Nov. Zool., XIII, 1906, p. 35.)

[b] *Chlorostilbon caribaeus nanus* BERLEPSCH and HARTERT: Differs in having shorter bill, slightly less forked tail and breast more or less tinged with bluish green; very close to *C. c. caribaeus* LAWRENCE, and may not be separable.

[c] Designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 118. Chapman (l.c.) adds "Chicoral, upper Magdalena Valley."

Range: Colombia and extreme western Venezuela.

9: Colombia 2; Venezuela (Colon, Tachira near Colombian line) 7.

Chlorostilbon inexpectatus *Berlepsch.* BERLEPSCH'S EMERALD.

Panychlora inexpectatus BERLEPSCH, Orn. Centralbl., IV, 1879, p. 63 (Bogota); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 69.

Chlorostilbon inexpectatus BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 119.

Range: Colombia.

***Chlorostilbon melanorhynchus** *Gould.* BLACK-BILLED EMERALD.

Chlorostilbon melanorhynchus GOULD, Proc. Zool. Soc. Lond., 1860, p. 308 (Quito); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 53; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 290 (Dabeiba; Caldas; San Antonio; Cali; Popayan, etc.).

Chlorostilbon comptus BERLEPSCH, Ibis, 1887, p. 297 (Antioquia).

Range: Ecuador and southwestern Colombia.

8: Colombia (Antioquia) 3; Ecuador 5.

Chlorostilbon pumilus[a] *Gould.* SMALL EMERALD.

Chlorostilbon pumilus GOULD, Ann. & Mag. Nat. Hist. (4), IX, 1872, p. 195 (Citado and Pallatanga, western Ecuador); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 54; SIMON and DELMAS, Ornis, XI, 1901, p. 221 (Narango); HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1183 (Pueblo Rico).

Range: Ecuador and west Colombia.

***Chlorostilbon maugaei** (*Audebert and Vieillot*). PORTO RICAN EMERALD.

Trochilus maugaeus AUDEBERT and VIEILLOT, Ois. Dorés, I, 1801, pp. 71–79, pls. 37, 38 (Porto Rico).

Sporadinus (?) *maugaei* GOULD, Mon. Trochil., V, 1861, pl. 349.

Sporadinus maugaei ELLIOT, Syn. Trochil., 1879, p. 242; CORY, Auk, 1886, p. 359; *Id.*, Bds. West Indies, 1889, p. 154; *Id.*, Cat. W. I. Bds., 1892, pp. 107, 132; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 58.

Chlorostilbon maugaei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 550; WETMORE, Bull. No. 326, U. S. Dept. Agricult., 1916, p. 70.

Range: Porto Rico, West Indies.

1: Porto Rico (Mayaguay).

Chlorostilbon prasinus prasinus (*Lesson*). GREEN EMERALD.

Ornismya prasina LESSON, Hist. Nat. Ois-Mouches, 1829, pp. 35, 188, pl. 65 ("Bresil").

Chlorostilbon prasinus ELLIOT, Syn. Trochil., 1879, p. 246, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 56, part; BERLEPSCH, Nov. Zool., XV, 1908, p. 267; PENARD and PENARD, De Vog. v. Guyana, II, 1910, p. 127.

Chlorostilbon brevicaudatus GOULD, Introd. Trochil., p. 77, 1871.

Range: Brazil, French and Dutch Guiana.

[a] This species is unknown to me. Chapman (l.c.) intimates he suspects it is inseparable from *C. melanorhynchus* GOULD.

***Chlorostilbon prasinus subfurcatus**[a] *Berlepsch.* RORAIMA EMERALD.

Chlorostilbon subfurcatus BERLEPSCH, Ibis, 1887, p. 297 (Mt. Roraima, British Guiana); CHUBB, Bds. Brit. Guiana, I, 1916, p. 403.

C. prasinus subfurcatus HARTERT, Das Tierreich, Trochil., 1900, p. 77.

Range: British Guiana.

1: British Guiana (Mt. Roraima).

Chlorostilbon prasinus daphne[b] (*Gould*). PERUVIAN EMERALD.

Chlorostilbon daphne GOULD, Introd. Trochil., 1861, p. 177 ("Pampas de Sacremento"); HARTERT, Das Tierreich, Trochil., 1900, p. 76; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 119.

Range: Peru, Ecuador and Colombia.

Chlorostilbon vitticeps[c] (*Simon*). SIMON'S EMERALD.

Prasitis vitticeps SIMON, Rev. Franc. d'Orn., No. 17, 1910, p. 263 (Region of Napo, Ecuador).

Range: Eastern Ecuador.

Chlorostilbon peruanus *Gould.* GOULD'S EMERALD.

Chlorostilbon peruanus GOULD, Introd. Trochil., 1861, p. 179 (Peru); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 57, pl. IV, Fig. 2.

Chlorostilbon stuebeli MEYER, Zeitsch. Ges. Orn., I, 1884, p. 206.

Range: Peru and Bolivia.

***Chlorostilbon poortmani poortmani** (*Bourc. and Muls.*). POORTMAN'S EMERALD.

Ornismya poortmani BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, VI, 1843, p. 39 (Colombia).

Chlorostilbon poortmani GOULD, Mon. Trochil., V, 1860, pl. 358.

Panychlora poortmani SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 69; SIMON, Rev. Franc. d'Orn., 1910, p. 264 (northeastern Ecuador, rare).

Chlorostilbon poortmani poortmani CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 291 (Quetame and Buena Vista, Colombia).

Range: Colombia and northeastern Ecuador.

5: "Colombia."

[a] *Chlorostilbon prasinus subfurcatus* BERLEPSCH: Differs in having foreneck with bluish tinge; tail emarginate (not rounded).

[b] *Chlorostilbon prasinus daphne* (GOULD): Differs in having the bluish tinge of foreneck more decided; bill longer and stronger; tail less emarginate than in *subfurcatus.*

[c] *Chlorostilbon vitticeps* (SIMON): Male, upper parts of body deep golden green; upper tail coverts deep bluish-green, blackish at base; top of head ornamented with scale-shaped golden feathers, forming a band not reaching the eye and narrowing on the vertex; under parts of body golden green with the breast brilliant greenish-blue; lower abdomen and flanks mixed with dusky grayish; under tail coverts very deep greenish blue or blackish, but slightly edged with gray; tail as in *daphne;* wings much longer than tail; wing, about 46; bill, 15 to 16 mm.

***Chlorostilbon poortmani euchloris** (*Reichen.*). GOLDEN EMERALD.

Chlorestes euchloris REICHENBACH, Journ. fur Ornith., Aufz. d. Col., 1854, p. 7 ("Nord Peru" = Colombia).[a]

Panychlora euchloris BERLEPSCH, Jour. fur Ornith., 1887, p. 336 (crit.); SALVIN Cat. Bds. Brit. Mus., XVI, 1892, p. 70.

Panychlora poortmani major BERLEPSCH, Jour. fur Ornith., 1884, p. 313 (Bucaramba, Colombia).

C. poortmani euchloris HARTERT, Das Tierreich, Trochil., 1900, p. 78.

Range: Colombia.

2: ("Colombia").

Chlorostilbon russatus (*Salvin and Godman*). COPPERY EMERALD.

Panychlora russata SALVIN and GODMAN, Ibis, 1881, p. 597 (Manaure, northern Colombia); SHARPE in Gould's Mon. Trochil., Suppl., 1883, pl. 59; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 71.

Range: Northern Colombia.

***Chlorostilbon aliciae** (*Bourc. and Muls.*). ALICE'S EMERALD.

Trochilus aliciae BOURCIER and MULSANT, Rev. Zool., 1848, p. 274 (Caracas).

Chlorostilbon aliciae GOULD, Mon. Trochil., V, 1860, pl. 357.

Panychlora aliciae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 70.

Range: Venezuela.

1: Venezuela (Caracas).

Chlorostilbon micans (*Salvin*). BRILLIANT EMERALD.

Panychlora micans SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 71, pl. IV, Fig. 1 (type locality?).

Range: Unknown.

***Chlorostilbon stenura** (*Cabanis and Heine*). WIRE-TAILED EMERALD.

Panychlora stenura CABANIS and HEINE, Mus. Heine, III, 1860, p. 50 (Merida); ELLIOT, Syn. Trochil., 1879, p. 248; SHARPE, in Gould's Mon. Trochil., Suppl., 1883, pl. 58.

Range: Venezuela and Colombia.

†17: Venezuela (Merida 4, near Merida 13).

Genus **SMARAGDOCHRYSIS** Gould.

Smaragdochrysis Gould, Mon. Trochil., V, 1861, pl. 359 (Type *S. iridescens* Gould).

Smaragdochrysis iridescens (*Gould*). IRIDESCENT EMERALD.

Calliphlox? *iridescens* GOULD, Proc. Zool. Soc. Lond., 1860, p. 310 (Novo Fribourgo).

Smaragdochrysis iridescens GOULD, Mon. Trochil., V, 1861, pl. 359; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 388.

Range: South Brazil.

[a] *Cf.* Berlepsch, l.c. 1887 and Hartert, Das Tierreich, Trochil., p. 9, 1900, p. 78.

Genus **PTOCHOPTERA** Elliot.

Ptochoptera ELLIOT, Ibis, 1874, p. 261 (*Chlorestes iolaema* Reichenbach).

Ptochoptera iolaema (*Reich.*). NATTERER'S EMERALD.

(*Chlorestes*) *Riccordia iolaema* REICHENBACH, Journ. fur Ornith., Aufz. d. Col., 1854, p. 8 (Ypanema); *Id.*, Trochil., Enum., p. 4, pl. 705.

Ptochoptera iolaema Elliott Syn. Trochil., 1879, p. 130; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 389.

Range: Eastern Brazil.

Genus **RICCORDIA** Reichenbach.

Riccordia Reichenbach, Aufz. de Col., 1854, p. 8 (Type *Riccordia raymondi* Reich. = *Trochilus ricordii* Gervaise).

*Riccordia ricordii ricordii (*Gervaise*). RICORD'S EMERALD.

Ornismya ricordii GERVAISE, Mag. de Zool., 1835, cl. II, pls. 42–43 (Santiago, Cuba).

Sporadinus ricordi GOULD, Mon. Trochil., V, 1860, pl. 348; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 57, part.

Sporadinus riccordi ELLIOT, Syn. Trochil., 1879, p. 241, part; CORY, Auk, 1886, p. 358, part; *Id.*, Bds. West Indies, 1889, p. 153, part.

Sporadinus ricordii ricordii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 243.

Range: Islands of Cuba.

5: Cuba (Santiago de los Banos 2, "Cuba" 3).

*Riccordia ricordii aeneoviridis[a] (*Palmer and Riley*). BAHAMAN EMERALD.

Riccordia aeneoviridis PALMER and RILEY, Proc. Biol. Soc. Wash., XV, 1902, p. 34 (Abaco I., Bahamas); ALLEN (G. M.) Auk, 1905, p. 127.

Sporadinus ricordi CORY, Bds. Bahama Is., 1880, p. 11 (Andros Is.); *Id.*, Bds. West Indies, 1889, p. 153, part (Bahamas); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 57, part (Bahamas).

Riccordia ricordii aeneoviridis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 544.

Range: Bahama Islands (Islands of Abaco, Little Abaco, Andros, Great Bahama and Elbow Key).

†32: Bahama Islands (Andros I. 8, Abaco I. 16, Great Bahama I. 8).

[a] This would stand as *Riccordia ricordii bracei* LAWRENCE if a race occurs on New Providence, I., and proves to be the same as those from Andros, Great Bahama, Abaco, etc.

Riccordia ricordii bracei[a] *Lawrence*. NEW PROVIDENCE EMERALD.

Sporadinus bracei LAWRENCE, Ann. N. Y. Acad. Sci., 1877, p. 50 (New Providence, Bahamas); ELLIOT, Syn. Trochil., 1879, p. 240, footnote; CORY, Bds. Bahama Is., 1880, p. 113.

Range: New Providence I., Bahamas.

***Riccordia swainsoni** (*Lesson*). HAITIAN EMERALD.

Ornismya swainsoni LESSON, Hist. Nat. Ois.-Mouches, 1829, p. XVII, Tab. p. XVII (p. 197, pl. 70) ("Bresil"; new name for *Trochilus elegans* Audebert and Vieill).

Trochilus elegans (not of Reich., 1795) AUDEBERT and VIEILLOT, Ois. Dores, I, 1801, p. 32, pl. 14 (Santo Domingo); LESSON, Suppl. Ois.-Mouches, 1830–31, p. 99.

Sporadinus elegans GOULD, Mon. Trochil., V, 1861, pl. 347; ELLIOT, Syn. Trochil., 1879, p. 41; CORY, Bull. Nutt Orn. Club, 1881, p. 153; *Id.*, Bds. Haiti and San Domingo, 1881, p. 93, pl. 22, Figs. 9–10; *Id.*, Auk, 1886, p. 358; *Id.*, Bds. West Indies, 1889, p. 152; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 59.

Sporadinus incertus MULSANT and VERREAUX, Hist. Nat. Ois.-Mouches, II, 1. 1, 1875, p. 76.

Riccordia swainsoni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 546.

Range: Island of Haiti and San Domingo.

†33: Haiti and San Domingo — Haiti (Le Coup) 6; San Domingo (Catare 9, Iquinicate 8, Samana 6, Puerto Plata 4).

Genus **PANTERPE** Cabanis and Heine.

Panterpe Cabanis and Heine, Mus. Heine, III, 1860, p. 43, footnote (Type *Panterpe insignis* Cab. and Heine).

***Panterpe insignis** *Cab. and Heine*. IRAZU HUMMING BIRD.

Panterpe insignis CABANIS and HEINE, Mus. Heine, III, 1860, p. 43 ("San Jose" Volcan de Irazu? Costa Rica); GOULD, Mon. Trochil., V, 1861, pl. 336; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 159; FERRY, Field Mus. Pub., No. 146, Orn. Ser., I, 1910, p. 263; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 511.

Range: Highlands of Costa Rica and western Panama.

†18: Costa Rica (Santa Rosa 2, Vol. Turrialba 15); Panama (Veragua) 1.

[a] I have examined the type of *S. bracei* LAWRENCE. The specimen is a mummy in poor condition and apparently discolored (probably by the preservative) and in my opinion is a discolored specimen of the bird which occurs commonly on Andros and Abaco Islands. The fact that no specimens of *Riccordia* have since been recorded from New Providence would suggest that no race exists there and that the occurrence of the type specimen of *bracei* on that Island (if the locality given is correct) was accidental.

Genus **CYANOPHAIA** Reichenbach.

Cyanophaia Reichenbach, Aufz. der Col., 1854, p. 10 (Type as fixed by Gray, 1855, *Trochilus bicolor* Gmelin.)

*Cyanophaia bicolor *Gmelin*. WAGLER'S WOOD NYMPH.

Trochilus bicolor GMELIN, Syst. Nat., I, 1788, p. 496 ("Guadeloupe," probably should be Dominica); AUDUBERT and VIEILLOT, Ois. Dores, I, 1801, p. 75, pl. 36.

Thalurania bicolor ELLIOT, Syn. Trochil., 1879, p. 102; CORY, Auk, III, 1886, p. 353; *Id.*, Bds. West Indies, 1889, p. 148; *Id.*, Cat. W. I. Bds., 1892, pp. 106–133; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 86; SIMON, and HELLMAYR Nov. Zool., XV, 1908, p. 7.

Thalurania wagleri GOULD, Mon. Trochil., II, 1875, pl. 109; SALVIN and ELLIOT, Ibis, 1873, p. 360 (Brazil, crit.).

?*Thalurania belli* H. VERRILL addition to the Avifauna of Dominica, date ?, p. ?[a]

Cyanophaia bicolor RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 529.

Range: Dominica and Martinique, Lesser Antilles, Guadeloupe?

†14: Dominica 5; Martinique 9.

Cyanophaia scapulata (*Gould*). BLACK-BELLIED WOOD NYMPH.

Eucephala scapulata GOULD, Introd. Trochil., 1861, p. 166 ("Oyopoc" Cayenne?); ELLIOT, Syn. Trochil., 1879, p. 229; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 343.

Thalurania scapulata HELLMAYR and SIMON, Nov. Zool., XV, 1908, p. 7; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 120, No. 1161.

Cyanophaia scapulata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: French Guiana.

Cyanophaia lerchi (*Muls. and Verr.*[b]). LERCH'S WOOD NYMPH.

Thalurania lerchi MULSANT and VERREAUX, Ann. Soc. Linn. Lyon, n. s. XVIII, 1872, p. 108 (Colombia); SIMON and HELLMAYR, Nov. Zool., XV, 1908, pp. 8–9 (crit.).

Timolia lerchi ELLIOT, Syn. Trochil., 1879, p. 232.

Agyrtria tenelrosa HARTERT, Bull. Brit. Orn. Club, X, 1899, p. XV.

Cyanophaia lerchi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: Colombia.

[a] *Thalurania belli* H. VERRILL: Described in a small pamphlet without date, pagination, or place of publication. If the description of the type specimen is correct, the bird is probably a freak or "sport" of *C. bicolor*.

[b] *Cyanophaia lerchi* (MULS. & VERR.): Omitted by Brabourne & Chubb, in Bds. S. Am., I, 1912. The type is now in the American Museum of Natural History, New York.

Cyanophaia caeruleo-lavata (*Gould*). REEVE'S WOOD NYMPH.

Eucephala caeruleo-lavata GOULD, Proc. Zool. Soc., Lond., 1860, p. 306 (Sao Paulo, southern Brazil); GOULD, Mon. Trochil., V, 1861, pl. 333; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 244.

Thalurania caeruleo-lavata SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 8.

Cyanophaia caeruleo-lavata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: Southeastern Brazil.

Cyanophaia chlorocephala (*Bourcier*). GREEN-HEADED WOOD NYMPH.

Hylocharis chlorocephalus BOURCIER, Rev. et Mag. de Zool. (2), VI, 1854, p. 457 ("Guaranda, Ecuador" = Rio de Janeiro, Brazil, according to Hellmayr).

Eucephala chlorocephala GOULD, Mon. Trochil., V, 1861, pl. 332; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 241.

Thalurania chlorocephala SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 8.

Cyanophaia chlorocephala RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: Southeastern Brazil.

Cyanophaia smaragdinea (*Gould*). GOULD'S WOOD NYMPH.

Agasma smaragdineum GOULD, Proc. Zool. Soc., Lond., 1860, p. 305 (Novo Fribourgo, Brazil).

Eucephala smaragdinea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 240, part.

Eucephala smaragdo-caerulea GOULD, Mon. Trochil., V, 1861, pl. 331.

Thalurania smaragdinea SIMON and HELLMAYR, Nov. Zool., X, 1908, pp. 8–10.

Cyanophaia smaragdinea RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: Southeastern Brazil (Bahia to Rio).

Cyanophaia chlorophana (*Simon*). SOUTHERN WOOD NYMPH.

Thalurania chlorophana SIMON, Cat. Trochil., 1897, p. 20, footnote (Bahia, Brazil); SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 8.

Cyanophaia chlorophana RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 528, in key.

Range: Southeastern Brazil.

Genus **THALURANIA** Gould.

Thalurania Gould, Proc. Zool. Soc., Lond., 1848, p. 13 (Type as fixed by Gray 1855, *Trochilus furcatus* Gmelin).

***Thalurania glaucopis** (*Gmelin*). BRAZILIAN WOOD NYMPH.

Trochilus glaucopis GMELIN, Syst. Nat., I, 1788, p. 497 ("Brasilia").

Thalurania glaucopis GOULD, Mon. Trochil., II, 1856, pl. 99; ELLIOT, Syn. Trochil., 1879, p. 99; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 77; HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 153.

Range: South Brazil (Bahia to Rio Grande do Sol), Paraguay.

8: Brazil (Sao Amaro 6, "Brazil" 2).

Thalurania townsendi *Ridgway*. HONDURAS WOOD NYMPH.

Thalurania townsendi RIDGWAY, Proc. U. S. Nat. Mus., X, 1888, p. 590 (Segovia R. Honduras); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 78; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 536.

Range: Honduras and eastern Guatemala.

Thalurania ridgwayi *Nelson*. MEXICAN WOOD NYMPH.

Thalurania ridgwayi NELSON, Auk, 1900, p. 262 (San Sabastian, Jalisco, southwestern Mexico); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 537.

Range: Western Mexico (in State of Jalisco).

***Thalurania colombica colombica** (*Bourcier*). COLOMBIAN WOOD NYMPH.

Ornismya colombica BOURICER, Rev. Zool., VI, 1843, p. 2 (Colombia).

Thalurania columbica GOULD, Mon. Trochil., II, 1858, pl. 106; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 79, part; STONE, Proc. Acad. Nat. Sci., Phila., 1899, p. 306 (Ibague); ALLEN, Bull. Am. Mus. N. H., XIII, 1900, p. 41 (Santa Marta, etc.).

Thalurania colombica colombica RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 532; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 293 (Andalucia; San Augustin, etc., Colombia).

Range: Andes of Colombia and Venezuela (San Cristobal) and eastern Panama.

9: "Colombia."

***Thalurania colombica venusta** (*Gould*). COSTA RICAN WOOD NYMPH.

Trochilus (*Thalurania*) *venusta* GOULD, Proc. Zool. Soc., Lond., 1850, p. 163 (Chiriqui, Panama).

Thalurania venusta GOULD, Mon. Trochil., II, 1858, pl. 105; MADRASZ, Am. Mus. N. H. Hung., 1911, IX, p. 357, in text.

Thalurania colombica venusta HARTERT, Journ. für Ornith, 1900, p. 362; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 534.

Range: Western Panama, Costa Rica and southern Nicaragua).

17: Costa Rica (Guayabo 11, Orosi 2); Panama (Veragua) 4.

Thalurania hypochlora *Gould*. CITADO WOOD NYMPH.

Thalurania hypochlora GOULD, Proc. Zool. Soc., Lond., 1870, p. 104 (Citado); ELLIOT, Syn. Trochil., 1879, p. 102; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 78.

Range: Ecuador.

***Thalurania fannyi fannyi** *Bourc. and Delattre*. GREEN-CROWNED WOOD NYMPH.

Trochilus fannyi BOURCIER and DELATTRE, Rev. Zool., 1846, p. 310 (Rio Dagua, Colombia).

Thalurania fanniae SIMON and DELMAS, Ornis, 1901, p. 210 (Buenaventura).
Thalurania fannyi HELLMAYR, Proc. Zool. Soc., Lond., 1911, p. 1183 (Pueblo Rico, etc.).
Thalurania fannyi fannyi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 291 (Alto Bonito, La Viejo, Buenavista, etc., crit.).

Range: Pacific region of Colombia and eastern Panama.

2: Colombia ("Rio Dague").

***Thalurania fannyi verticeps**[a] *Gould.* GREEN-HEADED WOOD NYMPH.

Thalurania verticeps GOULD, Contr. Orn., 1851, p. 79, pl. 71 (Quito); *Id.*, Mon Trochil., II, 1858, pl. 107; SIMON and DELMAS, Ornis, XI, 1901, p. 221, in text (crit.); HELLMAYR, Proc. Zool. Soc., Lond., 1911, p. 1184, in text (crit.), (Ecuador).
Thalurania fannyi verticeps CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 292 (Las Lomitas; San Antonio; La Frijolera, Colombia).

Range: Ecuador; Colombia (subtropical zone of western and central Andes).

2: Ecuador (Gualea 1, Peramba 1).

***Thalurania furcata furcata** (*Gmelin*). CAYENNE WOOD NYMPH.

Trochilus furcatus GMELIN, Syst. Nat., I, 1788, p. 486 (Cayenne).
Thalurania furcata GOULD, Mon. Trochil., II, 1858, pl. 101; ELLIOT, Syn. Trochil. 1879, p. 99; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 84.

Range: French Guiana.

1: French Guiana (Cayenne).

Thalurania furcata furcatoides *Gould.* AMAZONIAN WOOD NYMPH.

Thalurania furcatoides GOULD, Introd. Trochil., 1861, p. 77 (Para); SALVIN, Cat. Bds. Brit. Mus., XVI., 1892, p. 85.
Thalurania forcipata HEINE, Journ. für Ornith., 1863, p. 181.
Thalurania furcata forcatoides HELLMAYR, Nov. Zool., XII, 1905, p. 297; *Id.*, XIII, 1906, p. 377.

Range: Northeastern Brazil.

2: Brazil (Utinga 1, Santarem 1).

Thalurania furcata intermedia[b] *Snethlage.* SNETHLAGE'S WOOD NYMPH.

Thalurania furcata intermedia SNETHLAGE, Ornith. Monatsb., 1907, p. 163 (Cometa, Rio Tocantins, Brazil); *Id.*, Bol. Mus. Goeldi (Cat. Av. Amazon, VIII, 1914, p. 198).

Range: Region of Rio Tocantins, Brazil.

[a] *Thalurania verticeps* GOULD: Differs from *T. fannyi* (BOURC. & DELLATRE) in having upper parts deep golden green: bill shorter; tail shorter and less bluish black.

[b] *Thalurania furcata intermedia* SNETHLAGE: Supposed to differ from *T. f. furcatoides* GOULD, in having the neck band wider and tail coverts more mixed with gray.

***Thalurania furcata fissilis**[a] *Berlepsch and Hartert.* VENEZUELAN WOOD NYMPH.

Thalurania furcata fissilis BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 87 (Caura River, Venezuela).

Thalurania fissilis CHUBB, Bds. Brit. Guiana, I, 1916, p. 404.

Range: Venezuela and British Guiana.

3: British Guiana (Potaro 1, Mazaruni R. 1, Cumacusa 1).

***Thalurania nigrofasciata** *(Gould).* BLACKBANDED WOOD NYMPH.

Trochilus (——?) *nigrofasciata* GOULD, Proc. Zool. Soc. Lond., 1846, p. 89 (Rio Negro).

Thalurania nigrofasciata GOULD, Mon. Trochil., II, 1861, pl. 104; ELLIOT, Syn. Trochil., 1879, p. 100, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 82; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 44; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 292 (La Morelia; Florencia; Buena Vista; Colombia).

Range: Region east of the Andes in Peru, Ecuador, Colombia and in northwestern Brazil.

3: Ecuador.

***Thalurania tschudi** *Gould.* TSCHUD'S WOOD NYMPH.

Thalurania tschudi GOULD, Proc. Zool. Soc. Lond., 1860, p. 312 (Ucayali, northeastern Peru); *Id.*, Mon. Trochil., II, 1861, pl. 103; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 83; BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 86; HELLMAYR, Nov. Zool., XIV, 1907, pp. 77–78, in text.

Range: Northeastern Peru.

2: Peru (Moyobamba).

***Thalurania jelskii** *Taczanowski.* JELSK'S WOOD NYMPH.

Thalurania jelskii TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, pp. 138, 542 (Soriano); ELLIOT, Syn. Trochil., 1879, p. 101; SHARPE in Gould's Mon. Trochil., Suppl., 1887, pl. 29; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 84; HARTERT, Ibis, 1897, p. 432, in text; HELLMAYR, Nov. Zool., XIV, 1907, p. 78, in text.

Range: Peru and Bolivia.

1: Bolivia.

Thalurania simoni[b] *Hellmayr.* SIMON'S WOOD NYMPH.

Thalurania simoni HELLMAYR, Bull. Brit. Orn. Club, XIX, 1906, p. 8 (Rio Solimoens); *Id.*, Nov. Zool., XIV, 1907, p. 77.

Range: Amazon River region, above the junction of the Rio Negro, west Brazil.

[a] *Thalurania furcata fissilis* BERLEPSCH & HARTERT: Differs in having the under tail coverts uniform steel blue without white edges and bill averaging longer.

[b] *Thalurania simoni* HELLMAYR: Differs from *T. jelskii* TACZ., which is its nearest ally, in having wings and tail shorter; green of throat more golden; under tail coverts broadly edged with white; interscapular region (when held against the light) blackish green (not bluish green); a distinct frontlet of glittering green.

***Thalurania eriphile eriphile**[a] (*Lesson*). LESSON'S WOOD NYMPH.

Ornismya eriphile LESSON, Hist. Nat. Ois.-Mouches, Suppl., 1832, p. 148, pl. 25 ("Bresil").

Thalurania eriphile GOULD, Mon. Trochil., II, 1858, pl. 108; ELLIOT, Syn. Trochil., 1879, p. 101; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 80; CHUBB, Ibis, 1910, p. 269.

Thalurania eriphile eriphile HELLMAYR, Nov. Zool., XV, 1908, p. 76.

Range: Southeast Brazil and Paraguay.

11: Brazil (Rio das Velhas, Minas Geraes 9; Lagoa Santa 1; Sao Marcello, Rio Preto, Bahia 1).

Thalurania eriphile baeri[b] *Hellmayr*. BAER'S WOOD NYMPH.

Thalurania eriphile baeri HELLMAYR, Bull. Brit. Orn. Club., XXI, 1907, p. 27 (Goyez); *Id.*, Nov. Zool., XV, 1908, pp. 75–77.

Thalurania baeri SIMON, Bull. Mus. d'Hist. Nat., 1912, No. 8, p. 501 (Cambara, Matto Grosso).

Range: Central Brazil and Bolivia.

Thalurania balzani[c] *Simon*. BOLIVIAN WOOD NYMPH.

Thalurania balzani SIMON, Nov. Zool., III, 1896, p. 259 (Yungas, Bolivia); HARTERT, Ibis, 1897, p. 432, in text; HELLMAYR, Nov. Zool., XIV, 1907, p. 396; *Id.*, XV, 1908, p. 77; *Id.*, XVII, 1910, p. 376.

Range: Eastern Bolivia, west Brazil (east to Tapajos River, region).

***Thalurania watertoni** (*Bourcier*). WATERTON'S WOOD NYMPH.

Trochilus watertoni BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 44 ("Mibiri Creek, a 40 mille de la riviere Essiquibo").

Thalurania watertoni GOULD, Mon. Trochil., II, 1856, pl. 100; ELLIOT, Syn. Trochil., 1879, p. 101; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 78.

Range: Eastern Brazil.

1: "Brazil."

Genus **EUPHERUSA** Gould.

Eupherusa Gould, Mon. Trochil., XIV, 1857, pl. 324 (Type *Ornismya eximia* Delattre).

***Eupherusa eximia eximia** (*Delattre*). STRIPE-TAILED HUMMINGBIRD.

Ornismya eximia DELATTRE, Echo du monde Savant, 1843, p. 1069 (Coban, Guatemala).

[a] *Thalurania eriphile eriphile* LESSON: Under tail coverts bluish black or dark bronze green, sometimes narrowly tinged with whitish; front of crown glittering green; vertex of crown dark bronze green.

[b] *Thalurania eriphile baeri* HELLMAYR: Under tail coverts pure white, sometimes smaller ones with small marks of bluish black or dark bronze green; crown like in *T. e. eriphile* (LESSON).

[c] *Thalurania balzani* SIMON: Whole crown (including forehead) dark dull bronze green, like the back; under tail coverts like in *T. e. baeri* HELLMAYR.

Eupherusa eximia GOULD, Mon. Trochil., V, 1857, pl. 324; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 72, part.

Eupherusa eximia eximia RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 394.

Range: Guatemala to Nicaragua.

8: Guatemala 7; Nicaragua (San Raphael del Norte) 1.

Eupherusa eximia nelsoni *Ridgway*. NELSON'S HUMMINGBIRD.

Eupherusa eximia nelsoni RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910, p. 54 (Motzorongo, Vera Cruz, eastern Mexico); *Id.*, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 396.

Range: Southeastern Mexico in states of Vera Cruz, Oaxaca and Puebla.

***Eupherusa egregia** *Sclater and Salvin*. EGREGIUS HUMMINGBIRD.

Eupherusa egregia SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1868, p. 389 (Castillo and Calovevora, Panama); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 73; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 396.

Range: Costa Rica and western Panama.

9: Panama (Chiriqui) 1; Costa Rica (Coliblanco 5, Limon 1, San Cristobal 1, and Cartago 1).

Eupherusa poliocerca *Elliot*. WHITE-TAILED HUMMINGBIRD.

Eupherusa poliocerca ELLIOT, Ann. and Mag. N. H. (4), VIII, 1871, p. 266 (Putla, Oaxaca); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 74; HARTERT and HARTERT, Nov. Zool., I, 1894, pp. 19, 61; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 397.

Range: Southwestern Mexico in states of Oaxaca, Guerrero and Puebla.

Genus **CALIPHARUS** Elliot.

Callipharus Elliot, Classif. & Synop. Trochil., 1879, p. 211 (Type *Eupherusa nigriventris* Lawrence).

***Callipharus nigriventris** (*Lawrence*). BLACK-BELLIED HUMMINGBIRD.

Eupherusa nigriventris LAWRENCE, Proc. Acad. Nat. Sci., Phila., 1867, p. 232 (Costa Rica).

Callipharus nigriventris ELLIOT, Syn. Trochil., 1879, p. 211; SHARPE in Gould's Mon. Trochil., Suppl., 1887, pl. 54; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 67; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 400.

Range: Costa Rica and western Panama.

4: Panama (Veragua) 3; Costa Rica (Coliblanco) 1.

Genus **ELVIRA** Mulsant and Verreaux.

Elvira Mulsant and Verreaux, Classif. Trochil., 1865, p. 32 (Type *Trochilus chionura* Gould).

*Elvira chionura (*Gould*). WHITE-TAILED EMERALD.

Trochilus (*Thaumatius*) *chionura* GOULD, Proc. Zool. Soc. Lond., 1850, p. 162 (David, Chiriqui, Panama).

Thaumatius chionurus GOULD, Mon. Trochil., V, 1852, pl. 300.

Elvira chionura SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 74; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 403.

Range: Western Panama and southwestern Costa Rica.

3: Panama (Veragua) 2; Costa Rica 1.

*Elvira cupreiceps (*Lawrence*). COPPERY HEADED EMERALD.

Eupherusa cupreiceps LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VIII, 1867, p. 348 (Barranca, Costa Rica).

Elvira cupreiceps GOULD, Suppl. Trochil., 1880, pl. 53; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 75; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 404.

Range: Costa Rica.

3: Costa Rica.

Genus **CHALYBURA** Reichenbach.

Chalybura Reichenbach, Aufz. der Colib., 1854, p. 10 (Type *Trochilus buffoni* Lesson).

*Chalybura buffonii buffonii (*Lesson*). BUFFON'S PLUMETEER.

Trochilus buffonii LESSON, Hist. Nat. Trochil., 1831, p. 31, pl. 5 ("Brasil" = Bogota region, Colombia).

Hypuroptila buffoni GOULD, Mon. Trochil., II, 1854, pl. 89; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 87.

Chalybura buffoni ELLIOT, Syn. Trochil., 1879, p. 45; SIMON and DELMAS, Ornis, 1901, p. 222; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 45, in key.

Chalybura buffonii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 388.

Chalybura buffoni buffoni CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 293 (Peque; Salencio; San Augustin, etc., crit.).

Range: Colombia (Pacific coast to eastern Andes).

2: "Colombia."

*Chalybura buffonii aeneicauda (*Lawrence*).[a] VENEZUELAN PLUMETEER.

Chalybura aeneicauda LAWRENCE, Proc. Acad. Nat. Sci., Phila., XVII, 1865, p. 38 (Venezuela).

[a] *Chalybura buffonii aeneicauda* LAWRENCE: Distinguished from *C. b. buffonii* (LESSON) of Bogota region by the bronze-green or reddish-bronze middle rectrices (not blackish) and the rest of the rectrices bordered with greenish bronze.

C[halybura] buffoni var. *aeneicauda* SIMON, Mem. Soc. Zool., France, II, p. 219 (Esteban).

Hypuroptila aeneicauda BOUCARD, Gen. Humming Bds., 1894–95, p. 323 (Puerto Cabella, Venezuela and "Valencia, Colombia").

Chalybura buffonii aeneicauda HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 140.

Range: Venezuela, northern Colombia (Santa Marta region) and eastern Panama.

7: Venezuela (Valencia 2; Maracay 1[a]?; Orope 3[b]); and "Colombia" 1.

***Chalybura caeruleogaster** (*Gould*). BLUE-BREASTED PLUMETEER.

Trochilus (*Glaucis*?) *caeruleogaster* GOULD, Proc. Zool. Soc. Lond., 1847, p. 96 (New Grenada).

Hypuroptila caeruleogaster GOULD, Mon. Trochil., II, 1854, pl. 91.

Hypuroptila caeruleiventris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 88.

Chalybura caeruleogaster HARTERT and HARTERT, Nov. Zool., I, 1894, p. 45, in key; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 387, in key; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 293 (Buena Vista, Villavicencio).

Range: Colombia.

5: "Colombia."

Chalybura intermedia *Hartert and Hartert.*[c] HARTERT'S PLUMETEER.

Chalybura intermedia HARTERT (E. and C.), Nov. Zool., I, 1894, p. 44 (between Pogio and Santa Rosa, western Ecuador); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 388, in key.

Hypuroptila intermedia BOUCARD, The Humming Bird, V, 1895, p. 325.

Range: Western Ecuador.

***Chalybura urochrysa** (*Gould*). GOULD'S PLUMETEER.

Hypuroptila urochrysa GOULD, Proc. Zool. Soc. Lond., 1861, p. 198 (Panama?);[d] *Id.*, Mon. Trochil., II, 1861, pl. 90.

Hypuroptila urochrysea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 89.

Chalybura urochrysa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 390; HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1184; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 293 (Alto Bonito; Barbaccoas, etc., crit.).

Range: Panama and northwestern Colombia.

2: Colombia (Antioquia) 1; northern Ecuador (Cachibi) 1.

[a] An adult male collected by Dearborn in 1908 in Maracay, Venezuela, seems to represent typical *C. buffonii buffonii* (LESSON).

[b] Specimens from Orope, Zulia, Venezuela appear to be intermediate.

[c] *Chalybura intermedia* HARTERT and HARTERT: Belongs in the group having white untertail coverts and basal portion of under mandible pale, but differs in its golden green throat and greenish blue abdomen.

[d] *Cf.* Hellmayr (l.c.) and Chapman (l.c.).

***Chalybura isaurae** (*Gould*). ISAURA'S PLUMETEER.

Hypuroptila isaurae GOULD, Proc. Zool. Soc. Lond., 1861, p. 199 (Boca del Toro, "Costa Rica" = Panama); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 89.

Chalybura isaurae CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 537; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 391.

Range: Panama and eastern coast region of Costa Rica.

2: Panama (Veragua).

***Chalybura melanorrhoa** *Salvin*. DUSKY PLUMETEER.

Chalybura melanorrhoa SALVIN, Proc. Zool. Soc. Lond., 1864, p. 585 (Tucurriqui, Costa Rica); ELLIOT, Syn. Trochil., 1879, p. 47; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 392.

Hypuroptila melanorrhoa GOULD, Suppl. Trochil., 1881, pl. 10; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 90.

Chalybura carniali LAWRENCE, Proc. Acad. Nat. Sci., Phila., 1885, p. 39 (Angostura, Costa Rica).

Range: Eastern Nicaragua, eastern Costa Rica and western Panama (Veragua).

2: Panama 1; Costa Rica (Talamanca) 1.

Genus **COLIBRI** Spix.

Colibri Spix, Aves. Bras., I, 1824, p. 80 (Type *C. crispus* Spix = *Trochilus serrirostris* Vieill.).

***Colibri delphinae** (*Lesson*). BROWN VIOLET-EAR.

Ornismya delphinae LESSON, Rev. Zool., II, 1839, p. 44 (Type locality by designation, Bogota, Colombia).[a]

Petasophora delphinae GOULD, Mon. Trochil., IV, 1853, pl. 229; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 111; CHUBB, Bds. Brit. Guiana, I, 1916, p. 407.

Colobri delphinae BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 87 (Type locality designated as Bogota, Colombia); HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 141; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 486; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 294 (Buenavista, Narino, Colombia).

Range: From Guatemala southward to Panama and in South America from Colombia south to Peru and east through Venezuela to Trinidad and Guiana.

6: Panama 1; Colombia 3; Peru (Rioja) 1; Ecuador (Paramba) 1.

***Colibri cyanotus** (*Bourcier and Mulsant*). LESSER VIOLET-EAR.

Trochilus cyanotus BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, VI, 1843, p. 41 (Caracas, Venezuela).

[a] Type locality Bogota as fixed by Berlepsch & Hartert (Nov. Zool., IX, 1902, p. 87) which antedates "Trinidad" proposed by Hellmayr (Nov. Zool., XIII, 1906, p. 35) and Guiana proposed by Brabourne & Chubb (Bds. S. A., I, 1912, p. 123).

Petasophora cyanotus GOULD, Mon. Trochil., IV, 1853, pl. 228.

Petasophora cabanidis HEINE,[a] Journ. fur Ornith., 1863, p. 182 (Costa Rica).

Colibri cyanotus cabanidis CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 538; HELLMAYR, and SEILERN Arch. fur Naturg., Ab. A, Heft 5, 1912, p. 142, in text.

Colibri cabanidis MADARASZ, Ann. Mus. Nat. Hung., IX, 1911, p. 357, in text.

Petasophora cyanotis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 110; ALLEN, Bull. Am. Mus. N. H., XIII, 1900, p. 140 (Valparaiso and El Libans, Colombia); BANGS, Proc. N. E. Zool. Club, I, 1899, p. 76 (San Sebastian, etc.).

Colibri cyanotus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 484; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 294 (crit.).

Colibri cyanotus cyanotus HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 141.

Range: Costa Rica, Panama, Colombia, Venezuela, Ecuador,[b] Peru? Bolivia?

11: Colombia 3; Venezuela (Merida) 3; Panama (Veragua) 3; Costa Rica (Vol. Irazu) 2.

***Colibri thalassinus** (*Swainson*). MEXICAN VIOLET-EAR.

Trochilus thalassinus SWAINSON, Philos. Mag. N. S., I, 1827, p. 441 (Temascaltepec, Mexico).

Petasophora thalassina GOULD, Mon. Trochil., IV, 1853, pl. 227; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 109.

Colibri thalassinus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 482.

Range: Southern Mexico and Guatemala.

4: "S. Mexico" 2; and Guatemala 2.

***Colibri iolatus iolatus** (*Gould*). GOULD'S VIOLET-EAR.

Petasophora iolata GOULD, Proc. Zool. Soc. Lond., 1847, p. 9 (Bolivia).

Petasophora iolata GOULD, Mon. Trochil., IV, 1853, pl. 225; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 107, part; SIMON, Nov. Zool., IX, 1902, p. 179, part.

Petasophora coruscans SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 109.

Colibri iolatus HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 222; HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 142, part.

Colibri iolatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 481, in key, part.

Rhamphodon anais LESSON, Hist. Nat. Trochil., 1832, p. 146, pl. 55 (not *Ornismya anais* Lesson).

Petasophora anais GOULD, Proc. Zool. Soc. Lond., 1847, p. 8; ELLIOT, Synop. Trochil., 1879, p. 50.

[a] I cannot distinguish birds from Venezuela from those from Costa Rica (*C. c. cabanidis* (HEINE). See also Ridgway (l.c. footnote) and Chapman (l.c.).

[b] I have seen no specimens from Ecuador but Ridgway (l.c. footnotes, pp. 484–485) states that birds from eastern Ecuador (Baeza) are larger and easily distinguished by their conspicuously buffy under tail coverts and are probably subspecifically distinct. "In this case it is hardly possible that those from Peru and Bolivia should represent true *C. cyanotis*."

?*Pinarolaema buckleyi* GOULD, Ann. & Mag. Nat. Hist., V, 1880, p. 489 (Misqui, Bolivia). (Abnormal color phase?).

?*Colibri buckleyi* HARTERT, Das Tierreich, IX, 1900, p. 95; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 320 (crit.).

Colibri iolata CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 295 (N. W. Argentina).

Range: Bolivia, northwestern Argentina, Peru, Ecuador and western Colombia.

15: Bolivia 1; Peru (Macate 5, near Otuzco 1, Rio Ucubamba 1, Cajamarca 3); Ecuador 4.

***Colibri iolatus brevipennis** sub. sp. nov.[a] VENEZUELAN VIOLET-EAR.

Range: Venezuela and eastern Colombia.

19: Venezuela (Caracas 1, the type specimen; Merida 16); Colombia (Bogota) 2.

Colibri germana (*Salvin and Godman*). GUIANA VIOLET-EAR.

Petasophora germana SALVIN and GODMAN, Ibis, 1884, p. 451 (Mt. Roraima); SHARPE in Gould's Mon. Trochil., Suppl., 1887, pl. 11; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 108; CHUBB, Bds. Brit. Guiana, I, 1916, p. 406.

Range: British Guiana.

***Colibri serrirostris** (*Vieill.*). BRAZILIAN VIOLET-EAR.

Trochilus serrirostris VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 359 ("Bresil").

Colibri crispus SPIX, Av. Bras., I, p. 80, pl. 81.

Petasophora serrirostris GOULD, Mon. Trochil., IV, 1853, pl. 223; ELLIOT, Syn. Trochil., 1879, p. 52; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 106.

Colibri serrirostris HELLMAYR, Nov. Zool., XV, 1898, p. 77; HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 222.

Range: Brazil and east Bolivia.

4: Brazil (Chapada, Matto Grosso, 3; Bahia 1).

Genus **AVOCETTULA** Reichenbach.

Avocettula Reichenbach, Av. Syst., 1849, pl. 30 (Type *Trochilus recurvirostris* Swainson).

***Avocettula recurvirostris** (*Swainson*). SWAINSON'S HUMMINGBIRD.

Trochilus recurvirostris SWAINSON, Zool. Ill., II, 1821, p. 105 (no type locality given, Cayenne,[b] by designation).

[a] *Colibri iolatus brevipennis* subsp. nov.: Type from Caracas, Venezuela. Adult male, No. 35217, Field Museum of Natural History. Collected by J. F. Ferry, March 31, 1908. Similar to *Colibri iolatus iolatus* (GOULD), but smaller; wing shorter, and grayish white borders to under tail coverts decidedly narrower. Wing, 72; bill, 27 mm.

[b] Cayenne designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 123.

Avocettula recurvirostris GOULD, Mon. Trochil., III, 1856, pl. 201; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 101; HELLMAYR, Nov. Zool., XIII, 1906, p. 377; BERLEPSCH, Nov. Zool., XV, 1908, p. 264; CHUBB, Bds. Brit. Guiana, I, 1916, p. 408.

Range: French Guiana and northeastern Brazil.

1: British Guiana.

Genus ANTHRACOTHORAX Boie.

Anthracothorax Boie, Isis, 1831, p. 545 (Type *Trochilus violicauda* Boddaert = *Trochilus nigricollis* Vieillot).

*Anthracothorax mango (*Linn.*). MANGO HUMMINGBIRD.

Trochilus mango LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 128, ed. 12, I, 1766, p. 191 (Jamaica).

Lampornis mango GOSSE, Illustr. Bds. Jam., 1849, pl. 18; CORY, Auk, 1886, p. 349; *Id.*, Bds. West Indies, 1889, p. 144; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 91.

Lampornis porphyrurus GOULD, Mon. Trochil., V, 1861, pl. 81.

Anthracothorax mango RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 457.

Range: Island of Jamaica, West Indies.

13: Jamaica.

*Anthracothorax violicauda violicauda (*Bodd.*). BLACK-THROATED MANGO.

Trochilus violicauda BODDAERT, Tabl. Pl. Enl., 1873, p. 41 (Cayenne).[a]

Trochilus nigricollis VIEILLOT, Nouv. Dict. d'Hist. Nat., VII, 1817, p. 349 (Brazil).

Lampornis violicauda SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 92; STONE, Proc. Acad. Nat. Sci., Phila., 1899, p. 301, in text (St. Andrews I.); ALLEN Bull. Am. Mus. N. H., XIII, 1900, p. 141 (Bonda Masinga, etc.).

Lampornis nigricollis BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 87.

Anthracothorax nigricollis nigricollis HELLMAYR, Nov. Zool., XV, 1908, p. 77; *Id.*, XVII, 1910, p. 377; HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 142; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 459.

Anthracothorax violicauda CHUBB, Bds. Brit. Guiana, I, 1916, p. 410.

Range: Panama and southward throughout greater portion of South America (east of the western Andes) to the Guianas and Para, Brazil, and southward to Bolivia, Paraguay and Rio de Janeiro; also Trinidad Island and St. Andrews Island, Caribbean Sea.

†32: Panama 1; Colombia (Bogota 2, "Colombia" 8); Venezuela (Colon, Tachira 2, Orope 1, Encontrados 1, Maracay 1, Caracas 9); Island of Trinidad 2; British Guiana 1; Brazil (Bahia 2, Boa Vista, Rio Branco 1).

[a] *Cf.* Mathews, Austral. Av. Record, III, No. 2, 1915, p. 42.

Anthracothorax violicauda iridescens (*Gould*). IRIDESCENT MANGO.

Lampornis iridescens GOULD, Introd. Trochil., Oct. ed., 1861, p. 65 (Guayaquil, western Ecuador).

Anthracothorax violicaudus iridescens OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 321.

Anthracothorax nigricollis iridescens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 456, in key.

Range: Western Ecuador.

***Anthracothorax prevostii prevostii** (*Lesson*). PREVOST'S MANGO.

Trochilus prevostii LESSON, Hist. Nat. Colibr., 1830–31, p. 87, pl. 24 (Type locality unknown).[a]

Lampornis prevosti GOULD, Mon. Trochil., II, 1858, pl. 75; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 98, part.

Anthracothorax prevosti prevosti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 463.

Range: Southeastern Mexico (Vera Cruz, Oaxaca, etc.)., Yucatan, Cozumel I. and Mugeres I., Halbox I. and southward through British Honduras and Guatemala to Honduras.

13: Guatemala 1; Yucatan 2; Cozumel I. 1; Mexico (Tampico, Tamaulipas) 9.

***Anthracothorax prevostii viridicordatus** *Cory*.[b] VENEZUELAN MANGO.

Anthracothorax prevosti viridicordatus CORY, Field Mus. Pub., No. 167, Orn. Ser., I, No. 7, 1913, p. 286 (El Panorama, Rio Aurare, Venezuela).

Range: Coast region of northwestern Venezuela.

1: (The type) Rio Aurare, northeastern Lake Maracaibo, Venezuela.

***Anthracothorax prevostii gracilirostris** *Ridgway*. SLENDER-BILLED MANGO.

Anthracothorax prevosti gracilirostris RIDGWAY, Proc. Biol. Soc. Wash., XXIII, 1910. p. 55 (Bolson, Costa Rica); *Id.*, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 465.

Range: Nicaragua and Costa Rica.

4: Nicaragua (San Emilis).

***Anthracothorax prevostii hendersoni** (*Cory*). HENDERSON'S MANGO.

Lampornis hendersoni CORY, Descr. Six New Sp. Bds. Islands of Old Providence and St. Andrews, May 27, 1887, p. 1 (Old Providence I.); *Id.*, Auk, 1887 (July), p. 177, 180 (Old Providence I., Caribbean Sea); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 99.

[a] I suggest State of Vera Cruz, Mexico.

[b] *Anthracothorax prevosti viridicordatus* CORY: Similar to *A. p. prevosti* (LESSON), but differs in having upper parts bright green (not golden green as in *prevosti prevosti* and more grass green that in *A. p. gracilirostris* RIDGWAY; upper surface of middle tail feathers olive green; under tail coverts darker.

Anthracothorax prevosti hendersoni RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 466.

Range: Island of Old Providence, Caribbean Sea.

16: Old Providence Island.

***Anthracothorax viridigula** (*Bodd.*). GREEN-THROATED MANGO.

Trochilus viridigula BODDAERT, Tabl. Pl. Enl., 1783, p. 41 (Cayenne).[a]

Trochilus gramineus GMELIN, Syst. Nat., I, 1788, p. 488 (Guiana); AUDEBERT and VIEILLOT, Ois Dores, I, 1801, p. 23, pl. 9.

Lampornis gramineus GOULD, Mon. Trochil., II, 1858, pl. 77; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 95.

Anthracothorax gramineus HELLMAYR, Nov. Zool., XIII, 1906, pp. 35, 377; BERLEPSCH, Nov. Zool., XV, 1908, p. 263; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 456, in key.

Anthracothorax viridigula CHUBB, Bds. Brit. Guiana, I, 1916, p. 411.

Range: Trinidad Island, Venezuela and Guiana to Lower Amazon Region, Brazil.

3: Trinidad Island 2; and Cayenne 1.

***Anthracothorax veraguensis** *Reichenbach*. VERAGUAN MANGO.

[*Anthracothorax*] *veraguensis* REICHENBACH, Aufz. der Colibr., 1854, p. 11 (nomen nudum); *Id.*, Trochil. Enum., 1855, p. 9, pl. 794, Fig. 4848 (Veragua).

Lampornis veraguensis GOULD, Mon. Trochil., II, 1861, pl. 76; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 99.

Anthracothorax veraguensis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 467.

Range: Panama.

1: Panama.

***Anthracothorax dominicus** (*Linn.*). HAITIAN MANGO.

Trochilus dominicus LINNAEUS, Syst. Nat., ed. 12, I, 1766, p. 191 ("Dominica" = San Domingo).

Lampornis dominicus CORY, Bds. Haiti and San Domingo, 1885, p. 90, pl. 22, Figs. 7, 8; *Id.*, Auk, 1886, p. 348; *Id.*, Bds. West Indies, 1889, p. 143; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 96.

[*Trochilus*] *margaritaceus* GMELIN, Syst. Nat., I, pl. 6, 1788, p. 490.

Anthracothorax dominicus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 468.

Range: Island of Haiti and San Domingo, West Indies.

†72: San Domingo (Puerto Plata 22, Samana 8, Avocate 4, Maniel 2, San Domingo City 10, Maiman 1, Honduras 3, Catare 3); Haiti (Le Coup, near Porto Prince 15, Jacmel 5).

***Anthracothorax aurulentus** (*Audebert and Vieillot*). PORTO RICAN MANGO.

Trochilus aurulentus AUDEBERT and VIEILLOT, Ois. Dores, I, 1801, p. 29, pls. 12, 13 (Porto Rico).

Lampornis aurulentus GUNDLACH, Journ. fur Ornith., 1874, p. 312.

[a] *Cf.* Mathews, Austral. Av. Record, III, No. 2, 1915, p. 41.

Lampornis virginalis GOULD, Mon. Trochil., II, 1861, pl. 80; CORY, Cat. West Indian Bds., 1892, pp. 108, 143; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 97.
Lampornis ellioti CORY, Auk, 1890, p. 374 (Anegada Island).
Lampornis viridis[a] (not *Trochilus viridis* Audebert and Vieillot) GOULD, Mon. Trochil., II, 1861, pl. 78, part; CORY, Auk, 1886, p. 349, part; *Id.*, Bds. West Indies, 1889, p. 144, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 100.
Anthracothorax aurulentus RIDGWAY, Bull. U. S. Nat. Mus., V, 1911, p. 470; WETMORE, Bull. 326, U. S. Dept. Agriculture (Bur. Biol. Survey), 1916, p. 73; *Id.*, Auk, 1916, p. 415 (Veragua, Is.).

Range: Islands of Porto Rico, Culebra, Vieques, St. Thomas, St. John and Anegada, Greater Antilles.

9: Porto Rico (Mayaguez) 4; Anegada 4; St. Thomas? 1.

***Anthracothorax viridis** (*Audebert and Vieillot*). GREEN MANGO.

Trochilus viridis AUDEBERT and VIEILLOT, Ois Dores, I, 1801, p. 34, pl. 15 ("Des de l'Amerique Septentrionale").
Lampornis viridis GOULD, Mon. Trochil., II, 1861, pl. 78 (male only!); CORY, Auk, 1886, p. 349, part; *Id.*, Bds. West Indies, 1889, p. 144; SALVIN, Bds. Brit. Mus., XVI, 1892, p. 100.
Anthracothorax viridis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 472; WETMORE, Bull. 326, U. S. Dept. Agriculture (Bur. Biol. Survey), 1916, p. 72.

Range: Island of Porto Rico, West Indies.

6: Porto Rico.

Genus **CRINIS** Mulsant.

Crinis Mulsant, Ann. Soc. Linn. Lyon, XXII, 1875, p. 202 (Type *Lampornis colosoma* Elliot = *Chrysolampis chlorolaema* Elliot, 1870).

Crinis chlorolaemus (*Elliot*). ELLIOT'S TOPAZ.

Chrysolampis chlorolaema ELLIOT, Ann. & Mag. N. H., VI, 1870, p. 346 ("New Grenada?"); HARTERT, Nov. Zool., IV, 1898, p. 531; BERLEPSCH, Ibis, 1898, p. 143, in text.
Lampornis colosoma ELLIOT, Ibis, 1872, p. 351; GOULD, Suppl. Trochil., 1880, pl. 9.
Campylopterus (*Crinis*) *colosoma* MULSANT, Ann. Soc. Linn. Lyon., XXII, 1875, p. 202.

Range: Eastern Colombia, southeast Brazil?

Genus **CHRYSOLAMPIS** Boie.

Chrysolampis Boie, Isis, 1831, p. 546 (Type *Trochilus mosquitus* Linn.).

***Chrysolampis elatus** (*Linn.*). RUBY AND TOPAZ HUMMINGBIRD.

(?) *Trochilus mosquitus* LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 120 ("Indiis"); *Id.*, ed. 12, 1766, p. 192.
Trochilus elatus LINNAEUS, Syst. Nat. ed. 12, 1766, p. 192 ("America").[b]

[a] References to supposed females, *cf.*, Rdigway (l.c.), p. 472, footnote.
[b] Surinam designated by Berlepsch & Hartert, *cf.* Nov. Zool., IX, 1902, p. 87.

Chrysolampis moschitus BOIE, Isis, 1831, p. 546; GOULD, Mon. Trochil., IV, 1861, pl. 204; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 113; ALLEN, Bull. Am. Mus. N. H., XIII, 1902, p. 140 (Bonda).

Chrysolampis mosquitus SIMON, Ornis, 1901, p. 215; CORY, Field Mus. Pub., No. 137, 1909, pp. 200 (Aruba), 206 (Curacao), 212 (Bonaire), 221 (Tortuga), 224 (Blanquilla), 245 (Margarita); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 666.

Chrysolampis elatus BERLEPSCH, Nov. Zool., XV, 1908, p. 264 (crit.); CHUBB, Bds. Brit. Guiana, I, 1916, p. 412; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 295 (Caldas; Dabeiba; La Playa, Colombia).

Range: Northern and eastern South America from Colombia, Venezuela, the Guianas and Brazil, southward to Minas Geraes, Rio de Janeiro, etc., and islands of Margarita, (Blanquilla, Los Testigos, Bonaire, Aruba, Curacao, Tortuga, Trinidad and Tobago); also southwestern Costa Rica.[a]

†72: Islands off N. South America (Trinidad 1, Tobago 15, Margarita 1, Blanquilla 1, Tortuga 1, Bonaire 7, Aruba 9 and Curacao 1); Venezuela (Maracay, Aragua) 1; Colombia (near Cucuta, near Venezuelan line) 1; Brazil (Jua, Ceara 2; Quixada, Ceara 1; Sao Amaro, Bahia 21; Maccaco Secco, Bahia, 2; Rio do Peixe, Bahia, 12).

Genus **SIMONULA** Chubb.

Simonula Chubb, Bds. Brit. Guiana, I, 1916, p. 413 (new name to replace *Anthrocephala* Cabanis and Heine preoccupied in Vermes). (Type *T. "chloriceps"* Gmel.

Anthrocephala Cabanis and Heine, Mus. Heine, III, 1860, p. 72 (Type *Trochilus* (——?) *floriceps* Gould).

Simonula floriceps (*Gould*). BLOSSOM CROWN.

Trochilus floriceps GOULD, Proc. Zool. Soc. Lond., 1853, p. 62 (Antonio, Santa Marta).

Adelomya floriceps GOULD, Mon. Trochil., III, 1855, pl. 202.

Anthrocephala floriceps ELLIOT, Syn. Trochil., 1879, p. 183; SALVIN, Cat. Bds. Brit. Mus.,XVI, 1892, p. 172.

Range: Northern Colombia.

Simonula berlepschi[b] (*Salvin*). BERLEPSCH'S BLOSSOM CROWN.

Anthrocephala berlepschi SALVIN, Bull. Brit. Orn. Club, III, 1893, p. 8 (Colombia, environs of Bogota); *Id.*, Ibis, 1894, p. 120.

Simonula berlepschi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 295 (Rio Toche, central Andes).

Range: Colombia (Bogota region and central Andes).[c]

[a] According to Ridgway, l.c.

[b] *Simonula berlepschi* (SALVIN): Similar to *A. f. floriceps*, but ends of lateral rectrices largely white (not tawny); abdomen and under tail coverts grayish (not rufescent) ("Apicibus remigum lateralium" in original description, l.c., later changed to "apicibus rectricum lateralium" in Ibis, l.c.).

[c] Chapman (l.c.) suggests that this form may be found to be restricted to the central Andes.

Genus **EULAMPIS** Boie.

Eulampis Boie, Isis, 1831, p. 547 (Type *Trochilus jugularis* Linnaeus).

*Eulampis jugularis (*Linn.*). PURPLE CARIB.

Trochilus jugularis LINNAEUS, Syst. Nat., ed. 12, I, 1766, p. 190 (Cayenna, "Surinamo," i. e., Lesser Antilles).

Eulampis jugularis GOULD, Mon. Trochil., II, 1861, pl. 82; LAWRENCE, Proc. U. S., Nat. Mus., I, 1878, pp. 60, 192, 240; *Id.*, I, 1879, pp. 358, 458, 487; CORY, Auk, 1886, pp. 35, 473; *Id.*, 1887, p. 96; *Id.*, 1891, p. 48; *Id.*, Ibis, 1886, p. 475; *Id.*, Bds. West Indies, 1889, p. 145; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 102; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 478.

Eulampis jugularis eximus BERLEPSCH, Ibis, 1887, p. 294 (Nevis); HARTERT, Nov. Zool., V, 1898, p. 520 (crit. female of *jugularis*).

Range: Lesser Antilles (Islands of St. Cristopher, Nevis, Montserrat, Barbuda, Guadeloupe, Grande Terre, Dominica, Martinique, St. Lucia, Bequi, St. Vincent and Barbados).

†45: Lesser Antilles (St. Kitts or St. Christopher 10, Grand Terre 4, Guadeloupe 3, St. Lucia 4, St. Vincent 10, Martinique 8, Dominica 1, and "West Indies" 5).

Genus **SERICOTES** Reichenbach.

Sericotes Reichenbach, Aufz. der Colib., 1854, p. 11 (Type *Trochilus holosericeus* Linnaeus).

*Sericotes holosericeus holosericeus (*Linn.*). GREEN CARIB.

Trochilus holosericeus LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 120; *Id.*, ed. 12, I, 1766, p. 191 ("Mexico").

Lampornis holosericeus GUNDLACH, Journ. fur Ornith., 1878, p. 181 (Porto Rico, crit.).

Eulampis holosericeus GOULD, Mon. Trochil., II, 1861, pl. 83; CORY, Auk, 1886, p. 351, part; *Id.*, Bds. West Indies, 1889, p. 146, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 105, part.

Sericotes holosericeus CLARK (A. H.) Proc. Boston Soc. N. H., XXXII, 1905, p. 274, part.

Sericotes holosericeus holosericeus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 474; WETMORE, Auk, 1916, p. 414 (Vieques I.); *Id.*, Bull. 326, U. S. Dept. Agriculture, Bur. Biol. Survey, 1916, p. 71 (Vieque I., Culebra I; Culebrita I.).

Range: Lesser Antilles (Islands of Barbados, Union, Canouan, Carriacou, Bequia, St. Vincent, St. Lucia, Martinique, Dominica, Marie Galante, Desirade, Grand Terre, Guadeloupe, Montserrat, Antigua, Barbuda, Nevis, St. Christopher, St. Eustatius, Saba, St. Bartholemew and Sombrero) and in eastern Greater Antilles in the Virgin group (Islands of St. Croix, Anegada, Virgin Gorda, Tortola, St. Johns, St. Thomas, and Culebra, Vieques and Culebrita; accidental in Porto Rico?

†107: Lesser Antilles (Virgin Gorda 24, Saba 1, St. Thomas 1, St. Bartholemew 1, St. Croix 2, Anegada 4, St. Eustatius 7, Guadeloupe 10, St. Lucia 9, St. Kitts or St. Christopher 16, Grand Terre 3, Desirade 2, Marie Galante 3, Martinique 10, Antigua 4, Dominica 1 and Barbados 8).

***Sericotes holosericeus chlorolaemus** (*Gould*). DARKER GREEN CARIB.

Eulampis chlorolaemus GOULD, Mon. Trochil., pt. XIV, 1857 (vol. II, 1861) pl. 84 (type locality unknown); HARTERT, Nov. Zool., V, 1898, p. 520 (crit., Grenada).

Eulampis longirostris GOULD, Introd. Trochil., 1861, p. 69.

Sericotes holosericeus chlorolaemus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 477.

Range: Grenada and Tobago, West Indies.

8: Grenada, West Indies.

Genus **PSILOMYCTER** Hartert.

Psilomycter Hartert, Das Tierreich, Trochil., 1900, p. 104 (Type *Ornismya theresiae* Da Silva).

***Psilomycter theresiae theresiae** (*Da Silva*). GOLDEN THROAT.

Ornismya theresiae DA SILVA, Minerva Brasil, 1843, p. 2 (Para).

Chrysobronchus viridissimus MULSANT, Hist. Nat. Ois-Mouches, I, p. 279, pl. 26.

Chrysobronchus viridicaudus GOULD, Mon. Trochil., IV, 1858, p. 234.

Polytmus viridissimus ELLIOT, Syn. Trochil., 1879, p. 214; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 176.

Psilomycter theresiae theresiae HELLMAYR, Nov. Zool., XVII, 1910, p. 377.

Psilomycter theresiae CHUBB, Bds. Brit. Guiana, I, 1916, p. 414.

Range: The Guianas and Venezuela and northern Brazil, from Para in the Amazon region west to Manaos and Madeira and Tapajos Rivers.

2: British Guiana.

Psilomycter theresiae leucorrhous[a] (*Sclater and Salvin*). WHITE-VENTED GOLDEN-THROAT.

Polytmus leucorrhous SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1867, p. 584 (Cobati, Rio Negro); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 176.

P[*silomycter*] *t. leucorrhous* HELLMAYR, Nov. Zool., XVII, 1910, p. 377, in text.

Range: Northern Brazil, from the upper Rio Negro region west to eastern Peru.

[a] *Psilomycter theresiae leucorrhous* (SCLATER & SALVIN): Similar to *P. t. theresiae* (DA SILVA), but with the under tail coverts white (not green).

Genus **POLYTMUS** Brisson.

Polytmus Brisson, Orn., III, 1760, p. 667 (Type *Trochilus thaumantias* Linn.).

Polytmus thaumantias (*Linn.*). SOUTHERN GOLD THROAT.

Trochilus thaumantias LINN., Syst. Nat., I, 1766, p. 190 ("America meridionali" =Brazil, by designation).[a]

Polytmus thaumantias ELLIOT, Syn. Trochil., 1879, p. 214 part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 174, part; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 124, No. 1204.

Range: Brazil and Paraguay.

***Polytmus thaumantias chrysobronchus** (*Shaw*). SHAW'S GOLDEN THROAT.

Trochilus chrysobronchus SHAW, Gen. Zool., VIII (1812), p. 287 (Guiana).

Polytmus thaumantias chrysobronchus HELLMAYR, Nov. Zool., XIII, 1906, p. 36; *Id.*, XV, 1908, p. 264.

Polytmus chrysobronchus CHUBB, Bds. Brit. Guiana, I, 1916, p. 414.

Range: Guiana, Trinidad, Venezuela and Colombia.

4: Trinidad 1; British Guiana (Mt. Roraima) 1; and Colombia 2.

Genus **LEUCOCHLORIS** Reichenbach.

Leucochloris Reichenbach, Aufz. der Colob., 1854, p. 10 (Type *Trochilus albicollis* Vieillot).

***Leucochloris albicollis** (*Vieillot*). BRAZILIAN WHITE THROAT.

Trochilus albicollis VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, 1818, p. 426 ("Bresil").

Leucochloris albicollis GOULD, Mon. Trochil., V (1855), pl. 291; ELLIOT, Syn. Trochil., 1879, p. 200; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 178; HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 222.

Colibiri albigularis SPIX, Aves. Bras., I, 1824, p. 81, pl. 82, Fig. 1.

Range: Southern Brazil, Paraguay, and N. Argentine.

1: "Brazil."

Leucochloris malvina[b] (*Reichenbach*). REICHENBACH'S WHITE THROAT.

Chlorestes malvina REICHENBACH, Trochil., 1855, pl. 696, Figs. 4550–4551; *Id.*, Trochil. Enum., 2nd. ed., 1855, p. 4 ("Brasil").

Agyrtria malvina PELZELN, Zur Ornith. Bras., I, 1867, p. 29 (Note 1).

Leucochloris malvina SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 3.

Range: Southeastern Brazil.

[a] *Cf.* Brabourne and Chubb, Bds. S. Am., I, 1912, p. 124, No. 1204.

[b] *Leucochloris malvina* (REICH.): Readily distinguished from *L. albicollis* (VIEILL.) by its relatively longer outer tail feather and green spots on throat (not pure white as in *L. albicollis*).

Genus **AITHURUS** Cabanis and Heine.

Aithurus Cabanis and Heine, Mus. Heine, 1860, p. 50 (Type *Trochilus polytmus* Linnaeus).

*Aithurus polytmus (*Linnaeus*). STREAMER-TAILED HUMMINGBIRD.

Trochilus polytmus LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 120; *Id.*, ed. 12, I, 1766, p. 189 ("America" = Jamaica); GOSSE, Illustr. Bds. Jamaica, 1849, pls. 19, 20; GOULD, Mon. Trochil., II, 1849, pl. 98.

Trochilus maria GOSSE, Illustr. Bds. Jamaica, 1849, pl. 22.

Aithurus polytmus ELLIOT, Syn. Trochil., 1879, p. 96; CORY, Auk, 1886, p. 352; *Id.*, Bds. West Indies, 1889, p. 147; SCOTT, Auk, 1892, p. 277, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 64; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 339.

?*Aithurus taylori*[a] ROTHSCHILD, Bull. Brit. Orn. Club, XIX, 1894, p. XLVII, in text (St. Andrews, Jamaica).

Range: Southern portion of Island of Jamaica, West Indies (accidental on northern portion).

†21: Jamaica.

Aithurus scitulus *Brewster and Bangs*. BLACK-BILLED STREAMER-TAIL.

Aithurus scitulus BREWSTER and BANGS, Proc. N. E. Zool. Club, II, 1901, p. 49 (Priestman's River, Portland Parish, Jamaica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 339.

Range: Northern slope of Island of Jamaica; accidental in southern portion.

Genus **TOPAZA** Gray.

Topaza G. R. Gray, List Gen. Bds., 1840, p. 13 (Type *Trochilus pella* Linnaeus).

*Topaza pella (*Linn.*). CRIMSON TOPAZ.

Trochilus pella LINNAEUS, Syst. Nat., I, ed. 10, 1758, p. 119 ("Habitat in Indiis" = Guiana, by designation).[b]

Topaza pella GOULD, Mon. Trochil., II, 1856, pl. 66; ELLIOT, Syn. Trochil., 1879, p. 95; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 332; CHUBB, Bds. Brit. Guiana, I, 1916, p. 417.

Trochilus smaragdulus BOSC., Journ. d'Hist. Nat., II, 1792, p. 385, pl. XX, Fig. 5 (= female of *T. pella*).[c]

Range: Guiana and north Brazil.

5: British Guiana.

[a] *Aithurus taylori* ROTHSCHILD: Differs from typical *A. polytmus* (LINN.) in having a ruby-red spot on the throat. It is believed to be an abnormal specimen or "sport" of *A. polytmus* (*cf.* Ridgway, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 341, footnote; also, Brewster & Bangs, Proc. N. E. Zool. Club, II, 1901, p. 49.

[b] *Cf.* Brabourne and Chubb, Bds. S. Am., I, 1912, p. 125, No. 1208.

[c] According to Richmond, *cf.* Chubb, Bull. Brit. Orn. Club, XXXI, 1912, p. 39.

***Topaza pyra** (*Gould*). FAIRY TOPAZ.

Trochilus (*Topaza*) *pyra* GOULD, Proc. Zool. Soc. Lond., 1846, p. 85 (Rio Negro).
Topaza pyra GOULD, Mon. Trochil,. II (Nov., 1851), pl. 65; ELLIOT, Syn. Trochil., 1879, p. 95; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 333; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 322.
? *Topaza pella pamprepta* OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1892, p. 321 (Suno, Rio Napo, eastern Ecuador).

Range: Northwestern Brazil and eastern Ecuador.

1: "Ecuador."

Genus **OREOTROCHILUS** Gould.

Oreotrochilus Gould, Proc. Zool. Soc. Lond., 1847, p. 10 (Type *Trochilus estellae* d'Orb and Lafresnaye).

***Oreotrochilus chimborazo chimborazo** (*Dellatre and Bourc.*). CHIMBORAZAN HILL STAR.

Trochilus chimborazo DELATTRE and BOURCIER, Rev. Zool., 1846, p. 305 (Chimborazo, Ecuador).
Oreotrochilus chimborazo GOULD, Mon. Trochil., II, 1851, pl. 69; ELLIOT, Syn. Trochil., 1879, p. 35; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 335; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 322.

Range: Andes of Ecuador.

2: "Ecuador."

***Oreotrochilus chimborazo jamesonii** (*Jardine*). JAMESON'S HILL STAR.

Oreotrochilus jamesoni JARDINE, Contr. Orn., 1849, p. 67 (Pinchincha); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 322.
Trochilus pichincha BOURCIER and MULSANT, Mem. Acad. Sc. Lyon, II, 1850, p. 427.
Oreotrochilus pichincha GOULD, Mon. Trochil., II, 1851, pl. 68; ELLIOT, Syn. Trochil., 1879, p. 35; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 334.
Oreotrochilus chimborazo jamesonii HARTERT, Das Tierreich, Trochil., IX, 1900, p. 109.

Range: Ecuador.

2: "Ecuador."

***Oreotrochilus estellae** (*d'Orb. and Lafr.*). ESTELLA'S HILL STAR.

Trochilus estellae D'ORBIGNY and LAFRESNAYE, Syn. Av. Mag. de Zool., 1838, CL, II, p. 32 (La Paz, Potosi).
Oreotrochilus estellae GOULD, Mon. Trochil., II, 1849, pl. 70; ELLIOT, Syn. Trochil., 1879, p. 36; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 335; BAER, Ornis XII, 1904, p. 209 (Lara, Tucuman, Argentina); DABBENE, An. del Mus. N. de Buenos Aires, I, 1910, p. 268.

Range: Bolivia, Peru and northwestern Argentina.

4: Argentina 2; Bolivia 1; and Peru 1.

***Oreotrochilus leucopleurus** *Gould.* WHITE-SIDED HILL STAR.

Oreotrochilus leucopleurus GOULD, Proc. Zool. Soc. Lond., 1847, p. 10 (Andes of Chile); *Id.*, Mon. Trochil., II, 1849, pl. 71; ELLIOT, Syn. Trochil., 1879, p. 36.

Oreotrochilus leucopleurus subsp? HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 222 (Tucuman).

Oreotrochilus leucopleurus DABBENE, An. del Mus. N. Buenos Aires, I, 1910, p. 268 (Tucuman).

Range: Chile and northwestern Argentina.

2: "Chile."

Oreotrochilus bolivianus *Boucard.*[a] BOLIVIAN HILL STAR.

Oreotrochilus bolivianus BOUCARD, The Hummingbird, III, 1893, p. 7 (Bolivia); SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 4.

Alcidus bolivianus BOUCARD, Gen. Humming Bds., 1893–95, p. 346.

Range: Bolivia; northern Peru?

Oreotrochilus stolzmanni[b] *Salvin.* STOLZMANN'S HILL STAR.

Oreotrochilus stolzmanni SALVIN, Nov. Zool., II, 1895, p. 17 (Huamachuco and Cajamarca); BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 126, No. 1215; SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 4, in text.

Range: Northern Peru.

Oreotrochilus melanogaster *Gould.* BLACK-BREASTED HILL STAR.

Oreotrochilus melanogaster GOULD, Proc. Zool. Soc. Lond., 1847, p. 10 (Peru); *Id.*, Mon. Trochil., II, 1859, pl. 72; ELLIOT, Syn. Trochil., 1879, p. 36; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 337.

Range: Peru.

Oreotrochilus adela (*d'Orb. and Lafr.*). ADELA'S HILL STAR.

Trochilus adela D'ORBIGNY and LAFRESNAYE, Mag. de Zool., 1838; Syn. Av. CLII, p. 32 (Chuquisaca).

Oreotrochilus adela GOULD, Mon. Trochil., II, 1849, pl. 73; ELLIOT Syn., Trochil., 1879, p. 37; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 337.

Range: Bolivia.

Genus **UROCHROA** Gould.

Urochroa Gould, Mon. Trochil., II (Sept., 1856), pl. 57 (Type *Trochilus bougueri* Bourcier).

***Urochroa bougueri bougueri** (*Bourcier*). PIED-TAILED HILL STAR.

Trochilus bougueri Compt. Rend., XXXII, 1851, p. 186 (Warm-wooded regions of Nanegan).

[a] *Oreotrochilus bolivianus* BOUCARD: Allied to *O. leucopleurus* GOULD, but differs in having the band of the throat scarcely perceptible; line in center of abdomen very narrow and greenish-blue and tail and upper tail coverts differently colored; the upper tail coverts being bright reddish bronze.

[b] *Oreotrochilus stolzmanni* SALVIN: Near to *O. leucopleura* GOULD, but upper parts grass green becoming darker on the tail; middle of abdomen more narrowly purplish black; outer tail feathers narrower.

Urochroa bougeri GOULD, Mon. Trochil., II, 1856, pl. 57; ELLIOT, Syn. Trochil., 1879, p. 62; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 301.

Range: Southwestern Colombia and northwestern Ecuador.

1: "Ecuador."

Urochroa bougueri leucura[a] (*Lawrence*). WHITE-TAILED HILL STAR.

Urochroa leucura LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VIII, June, 1864, p. 43 (Reprint p. 3) (Ecuador).

Range: Eastern Ecuador.

Genus **STERNOCLYTA** Gould.

Sternoclyta Gould, Mon. Trochil., II (Sept., 1858), pl. 58 (Type *Trochilus cyanopectus* Gould).

***Sternoclyta cyaneipectus** (*Gould*). BLUE-BREASTED HUMMINGBIRD.

Trochilus (*Lampornis*) *cyanopectus* GOULD, Proc. Zool. Soc. Lond., 1846, p. 88 (Venezuela).

Sternoclyta cyaneipectus GOULD, Mon. Trochil., II, 1858, pl. 68; ELLIOT, Syn. Trochil., 1879, p. 60; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 300; HELLMAYR, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 142; SIMON, Mem. Soc. Zool., Fr., II, p. 220.

Range: Northwestern Venezuela.

1: Venezuela (Puerto Cabello).

Genus **EUGENES** Gould.

Eugenes Gould, Mon. Trochil., pt. XII, Sept., 1856, text, pl. 59 (Type *Trochilus fulgens* SWAINSON).

***Eugenes fulgens** (*Swainson*). RIVOLI HUMMINGBIRD.

Trochilus fulgens SWAINSON, Philos. Mag., N. S., I, 1827, p. 441 (Temascaltepec, Mexico).

Eugenes fulgens GOULD, Mon. Trochil., V, 1861, pl. 5–; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 302; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 565.

Trochilus rivolii SWAINSON, Bds. Bras. Mex., etc., 1841, p. 76.

Range: Guatemala and northern Nicaragua northward through highlands of Mexico to southern Arizona, U. S. A.

†14: Arizona, U. S. A. (Huachuca Mts.) 10; Mexico (Puebla) 2; Guatemala (Tecpam) 2.

[a] *Urochroa bougueri leucura* (LAWRENCE): Differs from *U. b. bougeri* (BOURCIER) in having the upper plumage (except the rump and upper tail coverts) green (not coppery-bronze); the middle tail feathers dark greenish and the rest of the tail feathers white, edged with dull black.

Eugenes spectabilis (*Lawrence*). ADMIRABLE HUMMINGBIRD.

Heliomaster spectabilis LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., 1867, p. 472 (Costa Rica).[a]

Eugenes spectabilis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 304; SHARPE, Suppl. Gould Mon. Trochil., 1885, pl. 13; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 568.

(?) *Eugenes spectabilis chiriquiquensis* NEHRKORN, Orn. Monatsb. IX, 1901, p. 132 (Chiriqui, Panama).

Range: Highlands of Costa Rica and western Panama.

Genus **CYANOLAEMUS** Stone.

Cyanolaemus Stone, Auk, April, 1907, p. 197, in text (Type *Ornismya clemenciae* Lesson).

***Cyanolaemus clemenciae** (*Lesson*). BLUE-THROATED HUMMINGBIRD.

Ornismya clemenciae LESSON, Hist. Nat. Ois.-Mouches, 1829, pp. XLV, 216, pl. 80 (Mexico).

Coeligena clemenciae ELLIOT, Synop. Trochil., 1879, p. 30; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 304.

Cyanolaemus clemenciae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 492.

Range: Highlands of Mexico (States of Tamaulipas, Vera Cruz, Oaxaca, Chihuahua, etc.), and northward into southern Arizona and western Texas.

4: Mexico (Cuernemaca 1, Esperanza Puebla 1, "Mexico" 2).

Genus **LAMPORNIS**[b] Swainson.

Lampornis SWAINSON, Philos. Mag. N. S. ,I, 1827, p. 442 (Type, by monotypy *Lampornis amethystinus* Swainson).

***Lampornis amethystinus amethystinus** (*Swainson*). CAZIQUE HUMMINGBIRD.

Lampornis amethystinus SWAINSON, Philos, Mag. N. S., I, June, 1827, p. 442 (Temascaltepec, Mexico).

Ornismyia henrici LESSON and DELATTRE, Rev. Zool., 1839, p. 17.

Coeligena henrici SHARPE, Hand List, II, 1900, p. 122, part; SIMON, Cat. Trochil., 1897, p. 25.

Delattria henrici GOULD, Mon. Trochil., II, 1861, pl. 62; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 308, part.

Lampornis amethystinus amethystinus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 496.

Range: Southeastern Mexico.

1: "Mexico."

[a] *Cf.* Salvin, Ibis, 1868, p. 251 (crit).

[b] *Cf.* Richmond, Auk, 1902, p. 83.

Lampornis amethystinus brevirostris (*Ridgway*). SHORT-BILLED CAZIQUE.

Delattria henrica brevirostris RIDGWAY, Proc. Biol. Soc. Wash., XXI, 1908, p. 195 (San Sebastian, Jalisco).

Lampornis amethystinus brevirostris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 497.

Range: Highlands of western Mexico.

***Lampornis amethystinus salvini** (*Ridgway*). GUATEMALAN CAZIQUE.

Delattria henrici salvini RIDGWAY, Proc. Biol. Soc., Wash., XXI, 1908, p. 195 (Calderas, Volcan de Fuego, Guatemala, 7000–8000 ft.).

Lampornis amethystinus salvini RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 498.

Range: Highlands of Guatemala; southern Mexico?

3: Guatemala (Santa Elena).

Lampornis margaritae (*Salvin and Godman*). MARGARET'S CAZIQUE.

Delattria margaritae SALVIN and GODMAN, Ibis, 1869, p. 239 (Omilteme, Guerrero).

Delattria margarethae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 310; HARTERT and HARTERT, Nov. Zool., I, 1894, p. 63.

Coeligena henrica margarethae HARTERT, Das Tierreich, Trochil., 1900, p. 115 (Monog.).

Lampornis margaritae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 499.

Range: Southwestern Mexico (State of Guerrero).

Lampornis pringlei (*Nelson*). PRINGLE'S CAZIQUE.

Delattria pringlei NELSON, Auk, 1897, p. 151 (Oaxaca City, Oaxaca, southwestern Mexico).

Lampornis pringlei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 500.

Range: Southwestern Mexico (State of Guerrero).

Genus **OREOPYRA** Gould.

Oreopyra Gould, Proc. Zool. Soc. Lond., 1860, p. 312 (Type *Oreopyra leucaspis* Gould = *Trochilus* (——?) *castaneoventris* Gould).

***Oreopyra castaneoventris castaneoventris** (*Gould*). CHIRIQUI MOUNTAIN GEM.

Trochilus (——?) *castaneoventris* GOULD, Proc. Zool. Soc. Lond., 1850, p. 163 (Cordillera de Chiriqui, Panama, 6000 ft.).

Oreopyra leucaspis GOULD, Mon. Trochil., IV, 1861, pl. 264; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 306; ELLIOT, Syn. Trochil., 1879, p. 33.

Oreopyra castaneoventris castaneoventris BANGS, Proc. Biol. Soc. Wash., XIX, 1906, p. 107; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 502.

Range: Western Panama (Cordillera de Chiriqui).

6: Panama (Chiriqui).

***Oreopyra castaneoventris calolaema** (*Salvin*). COSTA RICAN MOUNTAIN GEM.

Oreopyra calolaema SALVIN, Proc. Zool. Soc. Lond., 1864, p. 584 ("Volcan de Cartago," *i. e.*, Volcan de Irazu, Costa Rica); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 307; ELLIOT, Syn. Trochil., 1879, p. 33, part.

(?) *Oreopyra pectoralis* SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 664.

Oreopyra castaneoventris calolaema BANGS, Proc. Biol. Soc. Wash., XIX, 1906, p. 107; CARRIKER, Ann. Carnegie Mus., V, 1910, p. 541; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 504.

Range: Highlands of Costa Rica.

13: Costa Rica (Coliblanco 5, west of Limon 2, Volcan Irazu 1, San Jose 2, El Estella de Cartago 1, "Costa Rica" 2).

Oreopyra cinereicauda *Lawrence*. GRAY-TAILED MOUNTAIN GEM.

Oreopyra cinereicauda LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VIII, 1867, p. 485 (Costa Rica); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 307; SHARPE, Suppl. Gould's Mon. Trochil., 1885, pl. 7; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 506.

Range: Highlands of central and southern Costa Rica and Chiriqui region in Panama.

3: Costa Rica (S. Maria de Doba 1; El Estella de Cartego 2).

***Oreopyra hemileuca** *Salvin*. WHITE-BELLIED MOUNTAIN GEM.

Oreopyra hemileuca SALVIN, Proc. Zool. Soc. Lond., 1864, p. 584 (Turrialba and Tucurriqui, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 507.

Caeligena hemileuca ELLIOT, Syn. Trochil., 1879, p. 31; SHARPE, Suppl. Gould's Mon. Trochil., 1885, pl. 5.

Delattria hemileuca SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 311; SALVIN and GODMAN, Biologia, Centr.-Am., Aves, II, 1892, p. 337, pl. 54, Figs. 3, 4.

Range: Highlands of Costa Rica and western Panama (Chiriqui).

1: Costa Rica (La Honduras).

***Oreopyra sybillae** (*Salvin and Godman*). SYBIL'S MOUNTAIN GEM.

Delattria sybillae SALVIN and GODMAN, Ibis, 1892, p. 327 (Matagalpa, Nicaragua); *Id.*, Biologia Centr.-Am., Aves, II, 1892, p. 337, pl. 54A, Figs. 3, 4; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 664.

Oreopyra sybillae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 508.

Range: Highlands of Northern Nicaragua.

6: Nicaragua (San Raphael).

***Oreopyra viridipallens** (*Bourcier and Mulsant*). GREEN-THROATED MOUNTAIN GEM.

Trochilus viridi-pallens BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 321 (Coban, Vera Paz, Guatemala).

Delattria viridipallens GOULD, Mon. Trochil., II, 1861, pl. 63; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 310.

Coeligena viridipallens HARTERT, Das Tierreich, Trochil., 1900, p. 115.
Oreopyra viridipallens RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 509.

Range: Highlands of Guatemala and southern Mexico (State of Chiapas).

4: "Guatemala."

Genus **LAMPROLAIMA** Reichenbach.

Lamprolaima Reichenbach, Aufz. der Colib., 1854, p. 9 (Type *Ornismya rhami* Lesson).

***Lamprolaima rhami** (*Lesson*). GARNET-THROATED HUMMINGBIRD.

Ornismya rhami LESSON, Rev. Zool., 1838, p. 315 (Mexico).
Delattria rhami SCLATER, Proc. Zool. Soc. Lond., 1858, p. 297 (Oaxaca).
Lamprolaema rhami GOULD, Mon. Trochil., II, 1861, pl. 61; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 314; HARTERT (E. & C.) Nov. Zool., I, 1894, p. 63 (Chilpancingo, Guerrero); DEARBORN, Field Mus. Pub., No. 125, 1907, p. 99 (above Tecpam, Guatemala).
Lamprolaima rhami RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 489.

Range: Highlands of southern Mexico and Guatemala.

4: Guatemala (Vol. de Fuego 1, "Guatemala" 3).

Genus **CLYTOLAEMA** Gould.

Clytolaema Gould, Mon. Trochil., IV, 1853, pl. 249 (Type *Trochilus rubineus* Gmelin).

***Clytolaema rubricauda** (*Boddaert*).[a] BRAZILIAN RUBY.

Trochilus rubricauda BODDAERT, Tabl. Pl. Enl., 1783, p. 17 (Brasilia).
Trochilus rubineus GMELIN, Syst. Nat., I, 1788, p. 493 (Brasilia).
Trochilus obscurus GMELIN, Syst. Nat., I, 1788, p. 495 (Brasilia).
Clytolaema rubinea GOULD, Mon. Trochil., IV, 1853, pl. 249; ELLIOT, Syn. Trochil., 1879, p. 56; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 311; BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 126; HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 153.

Range: Southeastern Brazil.

5: Brazil (Porto Velho 1, "Brazil" 4).

Genus **POLYPLANCTA** Heine.

Polyplancta Heine, Journ. für Ornith., 1863, p. 182 (Type *Trochilus aurescens* Gould).

***Polyplancta aurescens** (*Gould*). GOULD'S RUBY.

Trochilus (*Lampornis*) *aurescens* GOULD, Proc. Zool. Soc. Lond., 1846, p. 88 (Rio Negro).

[a] *Cf.* Mathews, Austral Av. Record, III, No. 2, 1915, p. 41.

Clytolaema aurescens GOULD, Mon. Trochil., IV, pl. 250; ELLIOT, Syn. Trochil., 1879, p. 57; TACZ. Orn. Per.,, I, 1884, p. 387; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 313; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 323 (Napo Village, east Ecuador); SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 202.

Range: Eastern Peru and eastern Ecuador.

2: Peru (Pebas).

Genus **PHAIOLAIMA** Reichenbach

Phaiolaima REICHENBACH, Aufz. d. Col., 1854, p. 9 (Type *Trochilus rubinoides* BOURCIER & MULSANT).

***Phaiolaima rubinoides rubinoides** (*Bourcier & Mulsant*). LILAC-THROAT.

Trochilus rubinoides BOURCIER & MULSANT, Ann. Sc. Phys. et Nat. Lyon, IX, 1846, p. 322 (Colombia).

Phaeolaema rubinoides GOULD, Mon. Trochil., IV, 1858, pl. 268; ELLIOT, Syn. Trochil., 1879, p. 55; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 324.

Phaiolaima rubinoides rubinoides CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 296 (El Roble, eastern Andes, Colombia).

Range: Eastern Colombia.

5: "Colombia."

***Phaiolaima rubinoides aequatorialis** *Gould*. ECUADOR LILAC-THROAT.

Phaeolaema aequatorialis GOULD, Mon. Trochil., IV, 1860, pl. 264 (Ecuador); ELLIOT, Syn. Trochil., 1879, p. 55; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 325.

Phaiolaima aequatorialis OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 323 (Canzacota, western Ecuador).

Phaiolaima rubinoides aequatorialis CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 296 (San Antonio; Miraflores; Salinto, western Colombia).

Range: Western Ecuador and western Colombia.

1: "Ecuador."

Phaiolaima rubinoides cervinigularis *Salvin*. ROSY-THROAT.

Phaeolaema cervinigularis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 325, pl. VIII, Fig. 2 (Ecuador ?).

Phaiolaima cervinigularis OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 323 (Baeza and Cosanga, east Ecuador); HARTERT, Das Tierreich, 1900, p. 120; BRABOURNE & CHUBB, Bds. S. Am., I, 1912, p. 127, No. 1225 (eastern Ecuador; Peru); SIMON, Rev. Franc. d'Orn., 1910, p. 265.

Range: Eastern Ecuador; Peru.[a]

[a] I have seen no specimens from Peru.

Genus **AGAPETORNIS** Chubb

Agapetornis[a] CHUBB, Bds. Brit. Guiana, I, 1916, p. 419 (Type *Aphantochroa* gularis Gould).

Agapeta HEINE, Journ. fur Ornith., 1863, p. 178 (Type *Aphantochroa gularis* Gould).

Agapetornis gularis (*Gould*). PUCE-THROATED HUMMINGBIRD.

Aphantochroa gularis GOULD, Proc. Zool. Soc. Lond., 1860, p. 310 (Napo); Mon. Trochil., II, 1861, pl. 55; ELLIOT, Syn. Trochil., 1879, p. 28; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 398.

Agapeta gularis HARTERT, Das Tierreich, 1900, p. 120; SIMON, Rev. Franc. d'Orn., 1910, p. 265 (crit.).

Range: Eastern Peru and eastern Ecuador.[b]

Genus **LAMPRASTER** Taczanowski

Lampraster TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, p. 140 (Type *Lampraster branickii* Taczanowski).

Lampraster branickii *Taczanowski.*

Lampraster branickii TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, pp. 140–543, pl. 21, Fig. 1 (Monterico Huanta); *Id.* Orn. Peru, I, 1884, p. 286; ELLIOT, Syn. Trochil., 1879, p. 63; SHARPE in Gould's Mon. Trochil. Suppl., 1887, pl. 14; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 323; SIMON, Rev. Franc. d'Orn., 1910, p. 265, in text.[c]

Range: Peru.

Genus **HELIODOXA** Gould

Heliodoxa GOULD, Proc. Zool. Soc. Lond., 1849, p. 95 (Type *Heliodoxa jacula* Gould).

***Heliodoxa leadbeateri leadbeateri** (*Bourcier*). LEADBEATER'S HUMMINGBIRD.

Trochilus leadbeateri BOURCIER, Rev. Zool., VI, 1843, p. 102 (Caracas).

Heliodoxa leadbeateri GOULD, Mon. Trochil., II, 1860, pl. 97; ELLIOT, Syn. Trochil., 1879, p. 65, part; SIMON, Mem. Soc. Zool. France, 1889, II, p. 220 (San Esteban, Venezuela); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 317, part; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 296, crit. (La Frijola; La Candela; Buena Vista, etc., Colombia).

Leadbeatera splendens GOULD, Introd. Trochil., 1861 (Oct. ed.), p. 74 (Venezuela ?).

[a] *Agapetornis*, new name to replace *Agapeta* HEINE, preoccupied in Coleopter cf. Chubb (l.c.).

[b] cf. Simon, l.c.

[c] Simon, l.c., suggests that this may perhaps be the adult male of *Agapeta gularis*.

Heliodoxa leadbeateri parvula[a] BERLEPSCH, Journ. fur Ornith., 1887, p. 320 (Bogota); HELLMAYR & SEILERN, Arch. fur Naturg. Abh. A, 5 Heft, 1912, p. 144, in text.

Range: Venezuela and Colombia.

11: Venezuela (Merida 2, "Venezuela" 2); "Colombia" 7.

Heliodoxa leadbeateri otero[b] (*Tschudi*). OTERO'S HUMMINGBIRD.

Trochilus otero TSCHUDI, Arch. fur Naturg., 1844, I, p. 298 (Peru); Fauna Peruana Av., 1845–46, p. 249, pl. 23, Fig. 2.

Heliodoxa otero GOULD, Mon. Trochil., II, 1860, pl. 96; SIMON, Mem. Soc. Zool. France, II, 1889, pp. 220–221, in text (crit.); TACZANOWSKI, Orn. Perou, I, 1884, p. 287.

H[eliodoxa] leadbeateri otero HELLMAYR & SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 144, in text.

Range: Ecuador, Peru and Bolivia.

***Heliodoxa jacula jacula** *Gould*. GREEN-CROWNED HUMMINGBIRD.

Heliodoxa jacula GOULD, Proc. Zool. Soc. Lond., 1849, p. 96 (Bogota, Colombia); Mon. Trochil., II, 1858, pl. 54; ELLIOT, Syn. Trochil., 1879, p. 64; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 319, part.

Heliodoxa jacula jacula RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 571, in key.

Range: Colombia (central and eastern Andes).

3: "Colombia."

***Heliodoxa jacula jamersoni** (*Bourcier*). JAMERSON'S HUMMINGBIRD.

Trochilus jamersoni BOURCIER, Comp. Rend., XXXII, 1851, p. 187 ("Vallie chaud de Calacoli,"—Ecuador).

Heliodoxa jamesoni GOULD, Mon. Trochil., II, 1861, pl. 95; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 320.

Heliodoxa jacula jamersoni HARTERT, Das Tierreich, 1900, p. 123; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 224, crit. (Santo Domingo, western Ecuador); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 571, in key.

Range: Ecuador.

2: Ecuador (Chimbo 1, "Ecuador" 1).

†*Heliodoxa jacula henryi *Lawrence*. HENRY'S HUMMINGBIRD.

Heliodoxa henryi LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VIII, 1867, p. 402 (Angostura, Costa Rica).

[a] I cannot distinguish this supposed race. In this I agree with Chapman (l.c.); nevertheless it is recognized by Hartert (Das Tierreich, 1900, p. 122) and provisionally by Ridgway (Bull. U. S. Nat. Mus., No. 50, p. 572); also, Brabourne and Chubb.

[b] *Heliodoxa leadbeateri otero* (TSCHUDI): Male, described as differing from *H. l. leadbeateri* of Venezuela in having the frontal patch larger; more golden on upper back; breast tinged with greenish blue and the median rectrices greenish bronze (not reddish bronze); the females are also readily distinguished (cf. Taczanowski, l.c.). I have not seen this bird.

Heliodoxa jacula henryi BANGS, Proc. N. E. Zool. Club, III, 1902, p. 30 (Chiriqui, Panama); FERRY, Field Mus. Pub., Orn. Ser., I, No. 146, 1910, p. 264 (Coliblanco, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 573.

Heliodoxa henrici BOUCARD, Gen. Humm. Bds., 1895, p. 287 (Veragua).

Heliodoxa berlepschi BOUCARD, The Humming Bd., II, 1892, p. 75 (Veragua, Panama).

Range: Costa Rica and western Panama.

11: Costa Rica (El Pito 1, Volcan Irazu 1, Coliblanco 9); Panama (Veragua 3).

***Heliodoxa xanthogonys** *Salvin* and *Godman*. YELLOW-CHEEKED HUMMINGBIRD.

Heliodoxa xanthogonys SALVIN and GODMAN, Ibis, 1882, p. 80 (Merume Mts.); SALVIN, Ibis, 1885, p. 433 (Roraima); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 321; HARTERT, Das Tierreich, 1900, p. 123; CHUBB, Bds. Brit. Guiana, I, 1916, p. 419, pl. VIII, Figs. 1–2.

Xanthogenyx salvini D'HAMONV., Bull. Soc. Zool., France, VIII, 1883, p. 78 (Mt. Roraima).

Range: British Guiana.

2: "British Guiana."

Genus **HYLONYMPHA** Gould

Hylonympha GOULD, Ann. & Mag. N. H., 1873, p. 429 (Type *Hylonympha macrocerca* Gould).

***Hylonympha macrocerca** *Gould*. GREAT FORK-TAILED HUMMINGBIRD.

Hylonympha macrocerca GOULD, Ann. & Mag. Nat. Hist. (4), XII, 1873, p. 429 ("N. Brazil" = Venezuela[a]); *Id.*, Mon. Trochil. Suppl., 1880, pl. 27; ELLIOT, Syn. Trochil., 1879, p. 97; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 326; HELLMAYR, Nov. Zool., XIII, 1906, p. 1, in text.

Range: Interior of Venezuela; extreme N. Brazil?

1: "Venezuela"?

Genus **IONOLAIMA** Reichenbach

Ionolaima Reichenbach, Aufz. d. Col., 1854, p. 9 (Type *Trochilus schreibersi* Bourcier).

***Ionolaima schreibersi** (*Bourcier*). SCHREIBER'S HUMMINGBIRD.

Trochilus schreibersi BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 43 ("Alto Rio Negro"); GOULD, Mon. Trochil., II, 1857, pl. 93; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 324 (Baeza, eastern Ecuador).

Ionolaima frontalis LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VI, 1858, p. 263 (between Quito and the head waters of the Napo).

[a] Designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 128.

Iolaema schreibersi ELLIOT, Syn. Trochil., 1879, p. 58; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 321.

Range: Eastern Ecuador.

1: "Ecuador."

Ionolaima whitelyana (*Gould*). WHITELY'S HUMMINGBIRD.

Iolaema whitelyana GOULD, Ann. & Mag. Nat. Hist. (4), X, 1872, p. 452 (Cosnipata); WHITELY, Proc. Zool. Soc. Lond., 1873, p. 188; ELLIOT, Syn. Trochil., 1879, p. 59; SHARPE in Gould's Mon. Trochil. Suppl., 1883, pl. 12.

Range: Eastern Peru.

Ionolaima luminosa (*Elliot*). LUMINOUS HUMMINGBIRD.

Iolaema luminosa ELLIOT, Ibis, 1876, p. 188 (Bogota ?); *Id.*, Syn. Trochil., 1879, p. 58; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 323, pl. VIII, Fig. 1; HARTERT, Ibis, 1897, p. 434, in text; *Id.*, Das Tierreich, 1900, p. 125.

Range: Colombia.

Genus **EUGENIA** Gould

Eugenia GOULD, Mon. Trochil., IV, 1856, pl. 234 (Type *Eugenia imperatrix* Gould).

***Eugenia imperatrix** *Gould*. EMPRESS HUMMINGBIRD.

Eugenia imperatrix GOULD, Proc. Zool. Soc. Lond., 1855, p. 192 (Quito); *Id.*, Mon. Trochil., IV, 1856, pl. 234; ELLIOT, Syn. Trochil., 1879, p. 62; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 316; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1894, p. 325 (Gulea, western Ecuador).

Range: Ecuador.

1: Ecuador (Napo).

Genus **HELIANTHEA** Gould

Helianthea GOULD, Proc. Zool. Soc. Lond., 1848, p. 11 (Type *Ornismya helianthea* Lesson).

***Helianthea helianthea** (*Less.*). BLUE-THROATED STAR-FRONTLET.

Ornismya helianthea LESSON, Rev. Zool., 1838, p. 314 (Santa Fé de Bogota).

Helianthea typica GOULD, Mon. Trochil., IV, 1854, pl. 235; ELLIOT, Syn. Trochil., 1879, p. 71; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 124.

Helianthea healianthea CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 297 (Chipaque, eastern Andes, Colombia).

Range: Colombia.

7: Colombia (Paramo de Tama, extreme eastern Colombia 2, "Colombia" 5).

***Helianthea bonaparti** (*Boiss.*). BONAPARTE'S STAR-FRONTLET.

Ornismya bonaparti BOISSONNEAU, Rev. Zool., 1840, p. 6 (Bogota).
Trochilus aurogastier, FRAZER, Proc. Zool. Soc. Lond., 1840, p. 16.
Helianthea bonapartei GOULD, Mon. Trochil., IV, 1854, pl. 236; ELLIOT, Syn. Trochil., 1879, p. 295; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 124; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 297 (El Pinon, eastern Andes, Colombia).

Range: Colombia.

7: "Colombia."

***Helianthea eos** *Gould.* GOLDEN STAR-FRONTLET.

Helianthea eos GOULD, Proc. Zool. Soc. Lond., 1848, p. 11 (Highlands of Colombia and Venezuela); *Id.*, Mon. Trochil., IV, 1855, pl. 237; ELLIOT, Syn. Trochil., 1879, p. 72; HARTERT, Das Tierreich, 1900, p. 128; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 125.

Range: Venezuela.

5: Venezuela (Merida).

Helianthea phalerata (*Bangs*).[a] SANTA MARTA STAR-FRONTLET.

Leucuria phalerata[b] BANGS, Proc. Biol. Soc. Wash., 1898, p. 174 (Macotama, Sierra Nevada de Santa Marta).
Helianthea phalerata BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 128.

Range: Northern Colombia.

Helianthea volifer (*Gould*). VIOLET-THROATED STAR-FRONTLET.

Trochilus volifer GOULD, Proc. Zool. Soc. Lond., 1846, p. 87 (Bolivia).
Helianthea volifera BONAPARTE, Rev. Zool., 1854, p. 251; GOULD, Mon. Trochil., IV, 1855, pl. 239; ELLIOT, Syn. Trochil., 1879, p. 73; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 126.

Range: Bolivia.

***Helianthea osculans** *Gould.* BUFF-TAILED STAR-FRONTLET.

Helianthea osculans GOULD, Proc. Zool. Soc. Lond., 1871, p. 503 (Ecachupata and Huasampilla, Peru); SHARPE in Gould's Mon. Trochil., 1887, pl. 18; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 127; HARTERT, Das Tierreich, 1900, p. 129.

Range: Southern Peru.

2: Peru (Limbain, Carabayo).

[a] *Helianthea phalerata* (BANGS): "Forehead, crown and lores very brilliant metallic blue, with, in some lights, green reflections; auriculars, back and wing coverts dark grass green, in some lights quite dusky or cervix and upper back; chin dark grass green with slight metallic reflections; throat metallic violet; breast metallic sea green; abdomen shining grass green; wings purplish brown; feathers of tarsi, upper and under tail coverts and tail, including shafts of feathers, pure white." (Bangs, l.c.).

[b] *Leucuria* new Genus described by Bangs (l.c.) with *phalerata* as the type.

Helianthea dichroura *Taczanowski*. JELSKI'S STAR-FRONTLET.

Helianthea dichroura TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, p. 138 (Maraynioc); *Id.*, Orn. Peru, I, 1884, p. 377; ELLIOT, Syn. Trochil., 1879, p. 74; GOULD, Suppl. Trochil., 1881, pl. 19; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 128.

Range: Northern Peru.

***Helianthea lutetiae** (*Delatt.* and *Bourc.*). COMTE DE PARIS' STAR-FRONTLET.

Trochilus lutetiae DELATTRE and BOURCIER, Rev. Zool., 1846, p. 307 (Volcan du Purace, near Popayan).

Helianthea lutetiae GOULD, Mon. Trochil., IV, 1857, pl. 238; ELLIOT, Syn. Trochil., 1879, p. 73; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 126.

Helianthea lutetiae lutetiae OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 325 (Atcatso; Quito; Pichincha, Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 297 (Almaguer and Laguneta, temperate zone of central Andes, Colombia).

Range: Ecuador and southwestern Colombia.

3: "Ecuador."

Helianthea lutetiae hamiltoni[a] (*Goodfellow*). HAMILTON'S INCA.

Helianthea hamiltoni GOODFELLOW, Bull. Brit. Orn. Club, X, 1900, p. XLVIII (Papallacta, near Antisana); *Id.*, Ibis, 1900, p. 378.

Helianthea lutetiae hamiltoni OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 335 (Papallacta, east Ecuador).

Range: Eastern Ecuador.

***Helianthea traviesi** (*Muls.* and *Verr.*). TRAVIE'S INCA.

Diphlogena (*Helianthea*) *traviesi* MULSANT and VERREAUX, Ann. Soc. Linn. Lyon, 1866, p. 199 (Bogota).

Bourcieria traviesi ELLIOT, Syn. Trochil., 1879, p. 77; SHARPE in Gould's Suppl. Trochil., 1887, pl. 21.

Helianthea traviesi HARTERT, Nov. Zool., IV, 1897, p. 530, crit.

Eudosia traviesi MULSANT, Hist. Nat. Ois.-Mouches, III, 1776, p. 2, pl. 66; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 132.

Range: Colombia.

1: "Colombia."

†***Helianthea conradi** (*Bourc.*). CONRAD'S INCA.

Trochilus conradi BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 45 (Caracas).

Bourcieria conradi GOULD, Mon. Trochil., IV, 1859, p. 253; ELLIOT, Syn. Trochil., 1879, p. 76; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 130.

Range: Andes of Venezuela.

14: Venezuela (Merida).

[a] *Helianthea lutetiae hamiltoni* (GOODFELLOW): Males differ from *H. l. lutetiae* in having the green of plumage more golden green and the females have the throat deeper ochraceous.

***Helianthea torquata** (*Boiss.*). COLLARED INCA.

Ornismya torquata BOISSONNEAU, Rev. Zool., 1840, p. 6 (Bogota).

Bourcieria torquata GOULD, Mon. Trochil., IV, 1854, pl. 251; SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1879, p. 530; ELLIOT, Syn. Trochil., 1879, p. 77; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 130.

Helianthea torquata OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 325 (Baeza, eastern Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 297 (Colombia, various localities).

Range: Colombia and eastern Ecuador.

6: Colombia (Paramo de Tama, extreme eastern Colombia 2; "Colombia" 4).

***Helianthea fulgidigula** (*Gould*). GREEN-THROATED INCA.

Bourcieria fulgidigula GOULD, Mon. Trochil., IV, 1854, pl. 252 (Ecuador); *Id.*, Introd. Trochil., 1861, p. 135; ELLIOT, Syn. Trochil., 1879, p. 76; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 131.

Helianthea fulgidigula HARTERT, Das Tierreich, 1900, p. 132; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 326 (various localities in western Ecuador).

Range: Western Ecuador.

2: "Ecuador."

***Helianthea insectivora** (*Tschudi*). TSCHUDI'S INCA.

Trochilus insectivorus TSCHUDI, Faun. Perou Av., 1845–46, p. 248, pl. 23, Fig. 1 (Peru).

Bourcieria insectivora ELLIOT, Syn. Trochil., 1879, p. 76; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 129; SHARPE in Gould's Mon. Trochil. Suppl., 1887, pl. 20.

Range: Peru.

1: Peru (Uchco).

Helianthea inca (*Gould*). GOULD'S INCA.

Bourcieria inca GOULD, Contr. Orn., 1852, p. 136 (Coroico, Bolivia); *Id.*, Mon. Trochil., IV, 1854, p. 234; ELLIOT, Syn. Trochil., 1879, p. 75; TACZANOWSKI, Orn. Perou, I, 1884, p. 388; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 129.

Range: Peru and Bolivia.

***Helianthea coeligena coeligena** (*Lesson*). VENEZUELAN INCA.

Ornismya coeligena LESSON, Hist. Nat. Trochil., 1832, p. 141, pl. 53 ("du Mexique = Venezuela).[a]

Lampropygia coeligena CABANIS and HEINE, Mus. Heine, III, p. 136; SALVIN, Cat. Bds. Brit. Mus., 1892, XVI, p. 135.

Coeligena typica BONAPARTE, Consp. Av., 1850, p. 73, part.

Bourcieria coeligena ELLIOT, Syn. Trochil., 1879, p. 79, part; SIMON, Mem. Soc. Zool. France, II, 1889 (San Esteban, Venezuela).

[a] cf. Elliot, Ibis, 1876, p. 55.

Helianthea coeligena coeligena HELLMAYR and SEILERN, Arch. fur Naturg. Ab. A, 5 Heft, 1912, p. 144 (Cumbre de Valencia).

Range: Venezuela.

2: Venezuela (Caracas 1, "Venezuela" 1).

***Helianthea coeligena columbiana** (*Elliot*). COLOMBIAN INCA.

Lampropygia columbiana ELLIOT, Ibis, 1876, p. 57 (vicinity of Bogota).

Bourcieria columbiana ELLIOT, Syn. Trochil., 1879, p. 79.

Helianthea coeligena columbiana OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 326 (Baeza, eastern Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 298 (El Eden; La Candela; Andalucia; Fusugasuga, Colombia).

Range: Eastern Colombia and eastern Ecuador.

1: "Colombia."

Helianthea coeligena ferruginea[a] *Chapman.* WESTERN COLOMBIAN INCA.

Helianthea coeligena ferruginea CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 298 (western Andes above Cali, Colombia; alt. 6600 ft.).

Range: Western Colombia (subtropical zone of western Andes and eastward to Rio Toche region at 6800 ft.— Chapman).

Helianthea coeligena obscura[b] (*Berlep.* and *Stolz.*). DUSKY INCA.

Lampropygia columbiana obscura BERLEPSCH & STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 23 (central Peru, Vitoc).

Helianthea obscura BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 130, No. 1256.

Range: Central Peru.

Helianthea coeligena boliviana (*Gould*). BOLIVIAN INCA.

Lampropygia boliviana GOULD, Introd. Trochil., 1861, p. 137 (Bolivia); SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1879, p. 630; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 136.

Bourcieria boliviana ELLIOT, Syn. Trochil., 1879, p. 79.

H[elianthea] coeligena boliviana HARTERT, Das Tierreich, 1900, p. 132.

Range: Bolivia.

***Helianthea prunellii** (*Bourc.* and *Musl.*). PRUNELL'S INCA.

Trochilus prunellii BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, VI, 1843, p. 36 (Colombia).

[a] *Helianthea coeligena ferruginea* CHAPMAN: Similar to *H. c. columbiana* (ELLIOT), but under parts more strongly washed with tawny; sides of throat from breast to base of bill tawny or russet; throat less white and with larger spots; rump averaging greener.

[b] *Helianthea coeligena obscura* (BERLEP. and STOLZ.): Differs from *H. c. columbiana* in its darker plumage (above and below); head and back less tinged with bronze; abdomen more blackish and less russet; throat more grayish (less whitish) and dark spots larger.

Coeligena prunellii GOULD, Mon. Trochil., IV, 1857, pl. 257.
Bourcieria prunellii ELLIOT, Syn. Trochil., 1879, p. 78.
Lampropygia prunellii SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 133.
Helianthea prunellei BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 130, No. 1258.

Range: Colombia.

6: "Colombia."

***Helianthea assimilis** (*Elliot*). ALLIED INCA.

Bourcieria assimilis ELLIOT, Syn. Trochil., 1879, p. 78 ("Ecuador"); BERLEPSCH Journ. fur Ornith, 1884,. p. 310 (Colombia).
Lampropygia assimilis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 134.
Helianthea assimilis HARTERT, Das Tierreich, 1900, p. 133.

Range: Colombia.

1: "Colombia."

***Helianthea wilsoni** (*Dellatt.* and *Bourc.*). WILSON'S INCA.

Trochilus wilsoni DELATTRE and BOURCIER, Rev. Zool., 1846, p. 305 (Juntas, near St. Bonaventure, Colombia).
Bourcieria wilsoni ELLIOT, Syn. Trochil., 1879, p. 77.
Coeligena wilsoni GOULD, Mon. Trochil., IV, 1856, pl. 258.
Lampropyga wilsoni SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 134.
Helianthea wilsoni HARTERT, Das Tierreich, 1900, p. 133; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 326 (Milligali, western Ecuador).

Range: Southwestern Colombia and northern Ecuador.

1: "Ecuador."

Helianthea purpurea (*Gould*). PURPLE INCA.

Coeligena purpurea GOULD, Mon. Trochil., IV, 1854, pl. 256 (Popayan); *Id.*, Introd. Trochil., 1861, p. 137.
Bourcieria purpurea ELLIOTT, Syn. Trochil., 1879, p. 78.
Lampropygia purpurea SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 134.
Helianthea purpurea HARTERT, Das Tierreich, 1900, p. 133.

Range: Colombia.

Genus **DIPHOGENA** Gould

Diphogena GOULD, Mon. Trochil., IV, 1854, pl. 247 (Type *Helianthea iris* Gould).

***Diphogena iris** (*Gould*). BOLIVIAN RAINBOW.

Helianthea iris GOULD, Proc. Zool. Soc. Lond., 1853, p. 61 (between Illimani and Sorata, Bolivia).
Diphogena iris GOULD, Mon. Trochil., IV, 1854, pl. 247; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 326 (Pichincha, Ecuador).
Diphlogaena iris ELLIOT, Syn. Trochil., 1879, p. 69; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 121.

Diphlogaena iris buckleyi BERLEPSCH, Ibis, 1887, p. 295 (Ecuador); HARTERT, Das Tierreich, 1900, p. 135.

Range: Northwest Bolivia, northern Peru and Ecuador.

4: "Ecuador" 3; Peru (Molinopampa 1).

***Diphogena hesperus** *Gould*. ECUADORIAN RAINBOW.

Diphogena hesperus GOULD, Ann. & Mag. Nat. Hist., XV, 1855, p. 129 (Ecuador); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 326 (Mindo, western Ecuador).

Diphlogaena hesperus ELLIOT, Syn. Trochil., 1879, p. 70; SHARPE in Gould's Mon. Trochil. Suppl., 1885, pl. 16; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 122.

Range: Ecuador.

1: "Ecuador."

Diphogena aurora (*Gould*). GOULD'S RAINBOW.

Helianthea aurora GOULD, Proc. Zool. Soc. Lond., 1853, p. 61 (between Illimani and Sorata, Bolivia).

Diphogena aurora GOULD, Mon. Trochil., IV, 1861, pl. 248.

Diphlogaena aurora SHARPE in Gould's Mon. Trochil. Suppl., 1885, pl. 17; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 122.

Coeligena warszewizii REICHENBACH, Aufz. d. Col., p. 23.

Diphlogaena warszewiezi TACZANOWSKI, Orn. Perou, I, 1884, p. 383.

Range: Northern Bolivia and eastern Peru.

Diphogena eva[a] (*Salvin*). PERUVIAN RAINBOW.

Diphogaena eva SALVIN, Bull. Brit. Orn. Club, VI, 1897, p. 30 (Suecha, Cajamarca, northern Peru); *Id.*, Ibis, 1897, p. 264 (reprint); HARTERT, Das Tierreich, 1900, p. 135.

Range: Northern Peru.

Genus **LAFRESNAYA** Bonaparte

Lafresnaya BONAPARTE, Compt. Rend., XXX, 1850, p. 380 (Type *Trochilus flavicaudatus* Fraser = *T. lafresnayi* Boissonneau).

***Lafresnaya lafresnayi** (*Boiss.*). BUFF-TAILED VELVET-BREAST.

Trochilus lafresnayi BOISSONNEAU, Rev. Zool., 1840, p. 8 (Bogota).

Trochilus flavicaudatus FRASER, Proc. Zool. Soc. Lond., 1840, p. 18 (Colombia).

Lafresnaya flavicaudata BONAPARTE, Consp. Av., 1850, p. 68; GOULD, Mon. Trochil., II, 1857, pl. 85; ELLIOT, Syn. Trochil., 1879, p. 44.

L[afresnayea] lafresnayei HARTERT, Das Tierreich, 1900, p. 136.

Lafresnayea lafresnayi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 298 (Rio Toche; Chipaque; etc., central and eastern Andes, Colombia).

Range: Colombia.

5: "Colombia."

[a] *Diphogena eva* (SALVIN): Resembles *D. hesperus*, but the back of the neck dark red (not black); under tail coverts paler.

Lafresnaya liriope[a] *Bangs*. SANTA MARTA VELVET-BREAST.

Lafresnayea liriope BANGS, Proc. Biol. Soc. Wash., XXIII, 1910, p. 105 (Paramo de Chiruqua, 11,000 ft. Alt.; Sierra Nevada de Santa Marta, Colombia).

Range: Northern Colombia.

***Lafresnaya saul saul** (*Bourcier*). GRAY'S VELVET-BREAST.

Trochilus saul BOURCIER, Rev. Zool., 1846, p. 309 (Vicinity of Quito).

Lafresnaya saulae BONAPARTE, Consp. Avium, 1850, p. 68.

Lafresnaya gayi BONAPARTE, Consp. Avium, 1850, p. 68; GOULD, Mon. Trochil., II, 1857, pl. 86; ELLIOT, Syn. Trochil., 1879, p. 44; ALLEN, Bull. Am. Mus., XIII, 1900, p. 138 (San Miguel; Macatoma); Salvin, Cat. Bds. Brit. Mus., XVI, 1892, p. 327, part.

Lafresnaya saul OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 327 (Lloa; Pichincha; and Quito, Ecuador).

L[afresnayea] saul HARTERT, Das Tierreich, 1900, p. 136.

Lafresnayea saul saul CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 299 (Andes west of Popayan, Colombia).

Range: Venezuela, Colombia and Ecuador; northern Peru.[b]

4: Venezuela (Merida) 2; "Ecuador" 2.

Lafresnaya saul rectirostris[c] (*Berlepsch* and *Stolzmann*). WHITE-TAILED VELVET-BREAST.

Lafresnayea saul rectirostris BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 24 (Maraynioc, central Peru).

[*Lafresnayea*] *rectirostris* BRABOURNE and CHUBB, Bds. S. A., I, 1912, p. 131, No. 1270.

Range: Central Peru.

Genus **ENSIFERA**[d] Lesson

Ensifera LESSON, Echo de Monde Savant, Ser. 2, VIII, 1843, p. 734 (Type *Ornismya ensifera* Boissonneau).

Docimastes GOULD, Mon. Trochil., IV, 1849, pl. 233 (Type *O. ensifera*).

***Ensifera ensifera ensifera** (*Boissonneau*). SWORD-BILLED HUMMINGBIRD.

Ornismya ensifera BOISSONNEAU, Rev. Zool., 1839, p. 354 (Santa Fe de Bogota).

Trochilus derbianus FRASER, Proc. Zool. Soc. Lond., 1840, p. 16 (Colombia).

[a] *Lafresnaya liriope* BANGS: Bill less curved than in *L. saul*, but similar to that of *L. lafresnayi;* central rectrices and longer upper tail coverts strong greenish coppery (in marked contrast to the color of the back); rectrices (except the middle pair) white below the dark tips as in *L. saul.*

[b] Berlepsch and Stolzmann (Proc. Zool. Soc. Lond., 1902, p. 24, in text) consider a specimen from Cutervo, northern Peru, to represent *L. saul saul.*

[c] *Lafresnaya saul rectirostris* BERLEPSCH and STOLZMANN: Differs from *L. saul saul* in having the bill shorter and the wings and tail longer. The green on the throat, breast and sides of the body is clearer and more golden and the black of the abdomen is less developed.

[d] cf. Richmond, Auk, 1902, p. 92.

Docimastes ensiferus GOULD, Mon. Trochil., IV, 1849, pl. 233; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 315.

Ensifera ensifera ensifera CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 299 (Almager; Laguneta; El Roble, Colombia; Cerro Munchique ?).[a]

Range: Colombia and Venezuela.

4: Colombia (Bogota 1, "Colombia" 3).

Ensifera ensifera schliephackei[b] (*Heine*). ECUADORIAN SWORD-BILLED HUMMINGBIRD.

Docimastes schliephackei HEINE, Journ. fur. Ornith., 1863, p. 215 (Ecuador).

Docimastes ensifer schliephacki BERLEPSCH and TACZANOWSKI, Proc. Zool. Soc. Lond., 1884, p. 304.

Ensifera ensifera schliephacki OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 299–327, crit. (Papallacta and Pichincha, Ecuador).

Range: Ecuador and northern Peru.

Genus **PTEROPHANES** Gould

Pterophanes GOULD, Mon. Trochil., III, 1849, subpl. 178 (Type *Ornismya temmincki* Boiss.).

***Pterophanes temmincki** (*Boissonneau*). TEMMINCK'S SAPPHIRE-WING.

Ornismya temmincki BOISSONNEAU, Rev. Zool., 1839, p. 354 (Bogota).

Pterophanes temmincki GOULD, Mon. Trochil., III, 1849, pl. 178; ELLIOT, Syn. Trochil., 1879, p. 66; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 118; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 328 (Pichincha and Corazon, Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 299 (Santa Isabel, 12,700 ft. Alt., Colombia).

Range: Colombia, Ecuador, Peru and Bolivia.

5: Colombia 3; Ecuador 1; Bolivia 1.

Genus **AGLAEACTIS** Gould

Aglaeactis GOULD, Proc. Zool. Soc. Lond., 1848, p. 11 (Type *Trochilus cupreipennis* Bourcier).

***Aglaeactis cupripennis cupreipennis** (*Bourcier* and *Mulsant*). SHINING SUNBEAM.

Trochilus cupripennis BOURCIER and MULSANT, Ann. Phys. et Nat. Lyon, VI, 1843, p. 46 (Colombia).

Aglaeactis cupreipennis GOULD, Mon. Trochil., III, 1856, pl. 179; ELLIOT, Syn. Trochil., 1879, p. 186; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 350.

[a] Possibly *E. s. schliephackei; cf.* Chapman, l.c.

[b] *Ensifera ensifera schliephackei* (HEINE): Similar to *E. e. ensifera*, but bill longer.

Aglaiactis aequatorialis CABANIS and HEINE, Mus. Heine, III, 1860, p. 70 (Chimborazo, Ecuador).[a]

Aglaeactis cupreipennis aequatorialis HARTERT, Nov. Zool., V, 1898, p. 495 (Cayambe, Ecuador); OBERHOLSER, Proc. U. S. Nat. Mus., 1902, p. 328 (Ecuador).

Aglaeactis cupripennis cupripennis CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 299 (Andes of Popayan and Valle de las Pappas, Colombia).

Range: Colombia and Ecuador.

7: Colombia (Bogota 1, "Colombia" 5); Ecuador 2.

***Aglaeactis cupripennis parvula**[b] *Gould.* LITTLE SUNBEAM.

Aglaeactis parvula GOULD, Introd. Trochil., 1861, p. 106 (Peru).

Aglaeactis cupreipennis var. *parvula* TACZANOWSKI, Proc. Zool. Soc. Lond., 1880, p. 207.

Aglaeactis cupreipennis parvula SIMON, Nov. Zool., IX, 1902, p. 180 (Huamachuco, Peru).

Range: Peru.

2: Peru (Mts. east of Balsas) 2.

***Aglaeactis caumatonota** *Gould.* BLACK-THROATED SUNBEAM.

Aglaeactis caumatonota GOULD, Proc. Zool. Soc. Lond., 1848, p. 12 (Peru); *Id.*, Mon. Trochil., Suppl., 1880, pl. 49; ELLIOT, Syn. Trochil., 1879, p. 186; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 351; BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 25 (Maraynioc and Pariayacu, Peru).

Agleactis olivaceocauda LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VIII, p. 470 (Matara, Prov. d'Ayacucho, Peru).

Range: Peru.

1: "Peru."

Agleactis castelnaudi *Bourcier* and *Mulsant.* CASTELNAU'S SUNBEAM.

Trochilus castelnaudi BOURCIER and MULSANT, Rev. Zool., 1848, p. 270 (Cusco).

Agleactis castelnaudi BONAPARTE, Consp. Avium, 1850, I, p. 73; GOULD, Mon. Trochil., III, 1857, pl. 180; WHITELY, Proc. Zool. Soc. Lond., 1873, p. 190; TACZANOWSKI, Orn. Perou, I, 1884, p. 343; ELLIOT, Syn. Trochil., 1879, p. 187; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 351.

Range: Peru.

***Agleactis pamela** (*D'Orb.* and *Lafr.*). PAMELA'S SUNBEAM.

Orthorhynchus pamela D'ORBIGNY and LAFRESNAYE, Mag. de Zool., VIII, 1838 (Syn. Av.), p. 29 (Yungas).

[a] I cannot distinguish birds from Ecuador and Colombia, the supposed difference in length of bill is not constant, although it *may average* longer in birds from Ecuador. See also Chapman, l.c.

[b] *Agleactis cupripennis parvula* (GOULD): Distinguished from *A. c. cupreipennis* by its smaller size, the supposed color differences appear to be slight and variable.

Aglaeactis pamela GOULD, Mon. Trochil., III, 1856, pl. 181; ELLIOT, Syn. Trochil., 1879; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 352; BERLEPSCH, Ibis, 1898, p. 63, in text (Iquico).

Range: Bolivia.

2: "Bolivia."

Aglaeactis aliciae[a] *Salvin*. ALICE'S SUNBEAM.

Aglaeactis aliciae SALVIN, Bull. Brit. Orn. Club, V, 1896, p. XXIV (Suecha, northern Peru, Alt. 10,000 ft.); BARON, Nov. Zool., IV, 1897, pl. 1, Figs. 1–2.

Range: Andes of northern Peru.

Genus **BOISSONNEAUA** Reichenbach.

Boissonneaua Reichenbach, Aufz. d. Col., (March) 1854, p. 11 (Type *Trochilus flavescens* Loddegesia).

Panoplites Gould, Mon. Trochil., II (Oct.), 1854, pl. 112 (Type *T. flavescens*).

***Boissonneaua jardinii** (*Bourcier*). JARDINE'S CORONET.

Trochilus jardinii BOURCIER, Compt. Rend., XXII, 1851, p. 187 (Warm regions in forests near Nanegal, Ecuador).

Panoplites jardini GOULD, Mon. Trochil., II, 1854, pl. 112; ELLIOT, Syn. Trochil., 1879, p. 53; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 372.

Boissonneaua jardinii OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 328 (Nanegal, western Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 300 (Nôvita Trail and Buena Vista, western Andes, Colombia).

Range: Andes of Ecuador and southwestern Colombia.

1: "Ecuador."

***Boissonneaua matthewsi** (*Bourcier*). MATTHEWS CORONET.

Trochilus matthewsi BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 43 ("Le Perou").

Panoplites matthewsi GOULD, Mon. Trochil., II, 1854, pl. 113; WHITELY, Proc. Zool. Soc., 1873, p. 784; TACZANOWSKI, Orn. Perou, I, 1884, p. 295; ELLIOT, Syn. Trochil., 1879, p. 54; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 373.

Boissonneaua matthewsi SIMON, Nov. Zool., IX, 1902, p. 180 (Motil and Huamachuco, Peru); BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 25 (Garita del Sol and Culumachay, Peru); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 328 (Baeza, eastern Ecuador).

Range: North Peru and Ecuador.

1: "Ecuador."

[a] *Aglaeactis aliciae* SALVIN: Allied to *A. castelnaudi*, but differs in having a bar of green feathers across base of upper tail coverts and the amethystine feathers of lower back with a more reddish tint; tail dark coppery with base of the shaft white; outer web of outer tail feather and under tail coverts white; a distinct white patch on the throat and chin. Wing, 3.4; middle tail feathers, 1.5; lateral ones, 1.8.

***Boissonneaua flavescens flavescens** (*Loddiges*). YELLOW-FRONTED CORONET.

Trochilus flavescens LODDIGES, Proc. Zool. Soc. Lond., 1832, p. 7 (Popayan).
Ornismya paradisea BOISSONNEAU, Rev. Zool., 1840, p. 6 (Bogota).
Panoplites flavescens GOULD, Mon. Trochil., II, 1854, pl. 111; ELLIOT, Syn. Trochil., 1879, p. 54; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 344.
Boissonneaua flavescens HARTERT, Das Tierreich, 1900, p. 142.
Boissonneau flavescens flavescens HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1185 (Tatama Mountain, 8000 ft.); CHAPMAN, Bull. Am. Mus. N. H., XXVI, 1917, p. 300, crit. (Cocal; La Florida; Laguneta; El Roble; El Piñon, etc., Colombia).

Range: Andes of Colombia and Western Venezuela.

9: Venezuela (near Merida) 3; "Colombia" 6.

***Boissonneaua flavescens tinochlora**[a] *Oberholser*. WESTERN YELLOW-FRONTED CORONET.

Boissonneaua flavescens tinochlora OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 329 (west side of Corazon, Ecuador).

Range: Ecuador.

2: Ecuador (Gualea 1, "Ecuador" 1).

Genus **VESTIPEDES** Lesson.[b]

Vestipedes Lesson, Echo du Monde Savant, Ser. 2, VIII, 1843, p. 756 (Type *Ornismya vestita*).
Eriocnemis Reichenbach, Syst. Av. Aufz. d. Col., 1849, pl. XL (Type *O. vestita* Lesson).

***Vestipedes luciani** (*Bourcier*). BOQUET'S PUFF-LEG.

Trochilus luciani BOURCIER, Ann. Soc. Phys. & Nat. Lyon, VII, 1847, p. 324 (Guaca).
Eriocnemis luciani GOULD, Mon. Trochil., IV, 1853, pl. 273; ELLIOT, Syn. Trochil., 1879, p. 192; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 366 (Intac; Pichincha; Quito; San Rafael, Ecuador); HARTERT and HARTERT, Nov. Zool., I, 1894, p. 60 (near Cuenta, Ecuador).
Vestipedes luciani OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 329 (Mojanda; Padregal; Corazon; Pichincha, etc., Ecuador).

Range: Ecuador.

2: "Ecuador."

[a] *Boissonneaua flavescens tinochlora* OBERHOLSER: Differs from *B. f. flavescens* in the much broader green tips of the tail feathers, particularly on the inner webs of the two outer pairs; wing quills darker and more purplish; crissum and buffy portions of the tail darker. Specimens recorded from Corazon, Pichincha, and Canzacota, western Ecuador (Oberholser, l.c.).

[b] *Cf.* Richmond, Auk, 1902, p. 83.

Vestipedes glaucopoides (*d'Orb. and Lafr.*). D'ORBIGNY'S PUFF-LEG.

Ornismya glaucopoides D'ORBIGNY and LAFRESNAYE, Mag. de Zool. (Syn. Av.), II, 1838, p. 27 (Valle Grande, Bolivia).
Eriocnemis glaucopoides ELLIOT, Syn. Trochil., 1879, p. 191; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 367; SALVADORI, Boll. Mus. Zool. Univ. Torino, XXI, No. 292, 1896 (Prov. Jujuy).
Eriocnemis glaucopis SHARPE, Hand List Bds., 1900, p. 128.

Range: Bolivia.

Vestipedes catharina[a] (*Salvin*). PERUVIAN PUFF-LEG.

Eriocnemis catharina SALVIN, Bull. Brit. Orn. Club, VI, No. XLII, 1897, p. XXX (Leimebamba, eastern Peru); HARTERT, Das Tierreich, 1900, p. 144.

Range: Northern Peru.

Vestipedes isaacsoni *Parzudaki*. ISAACSON'S PUFF-LEG.

Ornismya isaacsoni PARZUDAKI, Rev. Zool., 1845, p. 95 (Bogota).
Eriocnemis isaacsoni GOULD, Mon. Trochil., IV, 1858, pl. 272; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 369; HARTERT, Das Tierreich, 1900, p. 144.
Helianthea isaacsoni ELLIOT, Syn. Trochil., 1879, p. 71.

Range: Colombia.

***Vestipedes vestitus vestitus** (*Lesson*). GLOWING PUFF-LEG.

Ornismya vestita (Longuemare MS.) LESSON, Rev. Zool., 1838, p. 314 (Bogota).
Eriocnemis vestita GOULD, Mon. Trochil., IV, 1859, pl. 275; ELLIOT, Syn. Trochil., 1879, p. 193; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 363.
E[riocnemis] vestita (typica) HARTERT, Das Tierreich, 1900, p. 145.
Mellisuga ridolphi BENVENUTI, Ann. R. Mus. Torino, 1865, p. 305.
Vestipedes vestitus vestitus CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 300 (El Piñon; Tocaimito; CHIPAQUE, eastern Andes, Colombia).

Range: Colombia and Venezuela.

†21: Colombia (Paramo de Tama 2, "Colombia" 5); Venezuela (Paramo de Tama, near Colombia line, 7, near Merida 7).

***Vestipedes vestitus smaragdinipectus** (*Gould*). GREEN-BREASTED PUFF-LEG.

Eriocnemis smaragdinipectus GOULD, Ann. & Mag. Nat. Hist., 1868, p. 322 (Quito); ELLIOT, Syn. Trochil., 1879, p. 194; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 364.
Eriocnemis evelinae HARTERT and HARTERT, Nov. Zool., I, 1894, p. 59 (Rio Pastassa, eastern Ecuador); *Id.*, Ibis, 1897, p. 432 (crit.).
E[riocnemis] vestita smaragdinipectus HARTERT, Das Tierreich, 1900, p. 145.

[a] *Vestipedes catharina* (SALVIN): Similar to *V. luciani* but uropygium and middle of abdomen bluish and tail much less forked.

Vestipedes vestitus smaragdinipectus OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 330 (Papallacta, eastern Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 300 (Almaguer, Colombia, near Ecuadorian boundary).

Range: Ecuador and extreme southern Colombia (Almaguer).

1: "Ecuador."

Vestipedes paramillo[a] *Chapman.* PARAMO PUFF-LEG.

Vestipedes paramillo CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 301 (Paramillo, 12,500 ft., western Andes, Colombia).

Range: Colombia (Paramo Zone at northern end of the western Andes).

Vestipedes ventralis *Salvin.* AMETHYST-VENTED PUFF-LEG.

Eriocnemis ventralis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 364, pl. IX, Fig. 2 (Colombia; Bogota?).

Range: Colombia.

***Vestipedes godini** (*Bourcier*). GODIN'S PUFF-LEG.

Trochilus godini BOURCIER, Compt. Rend., XXXII, 1851, p. 186 (Ecuador).

Eriocnemis godini GOULD, Mon. Trochil., IV, 1861, pl. 277; ELLIOT, Ibis, 1872, p. 295; *Id.*, Syn. Trochil., 1879, p. 193; HARTERT, Ibis, 1897, p. 432, in text; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 365.

Range: Ecuador and Colombia.

1: "Ecuador."

***Vestipedes cupreoventris** (*Fraser*). COPPERY-VENTED PUFF-LEG.

Trochilus cupreoventris FRASER, Proc. Zool. Soc. Lond., 1840, p. 15 (Colombia).

Eriocnemis cupreoventris GOULD, Mon. Trochil., IV, 1853, pls. 270–271; ELLIOT, Syn. Trochil., 1879, p. 192; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 367.

(?) *Eriocnemis dyselius* ELLIOT,[b] Ibis, 1872, p. 294; *Id.*, Syn. Trochil., 1879, p. 194; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 368, pl. IX, Fig. 1.

(?) *Eripous simplex* GOULD,[c] Proc. Zool. Soc. Lond., 1849, p. 96 (Colombia).

(?) *Eriocnemis simplex* GOULD, Mon. Trochil., IV, 1852, pl. 271.

Eriocnemis aurea MEYER,[d] Auk, 1890, p. 315 (Colombia).

Range: Colombia and Venezuela.

7: Venezuela (near Merida).

[a] *Vestipedes paramillo* CHAPMAN: Related to *V. v. smaragdinipectus* (GOULD), but male with purple throat patch smaller and triangular in shape (as in *V. nigrivestris*) and entirely surrounded by glittering emerald green; upper parts greener, more uniform and less coppery; rump slightly bluer. Wing, 56.6; tail, 39.5; bill, 17.5 (average measurements).

[b] Supposed to be a melanism of *V. cupreoventris.*

[c] Supposed to be abnormal phase of plumage of *V. cupreoventris.* A specimen (No. 46251) in the Field Museum collection (labelled by Boucard, *dyselius*) is evidently albinistic.

[d] *E. aurea* MEYER=*E. cupreoventris*, ♀; *cf.* Hartert, Ibis, 1897, p. 433, in text; *Id.*, Nov. Zool., IV, 1897, in text (crit.).

Vestipedes chrysorama *Elliot.*[a] BLUE-VENTED PUFF-LEG.

Eriocnemis chrysorama ELLIOT, Ann. & Mag. Nat. Hist. (4), XIII, 1874, p. 375 ("Ecuador"); *Id.*, Syn. Trochil., 1879, p. 193; MULSANT, Hist. Nat. Ois-Mouches, III, 1877, p. 44, pl. 69; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 368 (Colombia); HARTERT, Das Tierreich, 1900, p. 146 (Colombia).

Range: Colombia.

***Vestipedes sapphiropygia** *Taczanowski.* SAPPHIRE-VENTED PUFF-LEG.

Eriocnemis sapphiropygia TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, p. 139 (Maraynioc, Peru); *Id.*, Orn. Perou, I, 1884, p. 397; SHARPE in Gould's Mon. Trochil., Suppl., 1883, pl. 50; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 361, footnote; BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 25 (Maraynioc, Peru); HARTERT, Das Tierreich, 1900, p. 140.

Range: Peru.

1: Peru (Lambaen Carabaya).

Vestipedes mosquera mosquera *Delattre and Bourcier.* MOSQUERA'S PUFF-LEG.

Trochilus mosquera DELATTRE and BOURCIER, Rev. Zool., 1846, p. 306 (Pasto, southern Colombia).

Eriocnemis mosquera GOULD, Mon. Trochil., 1853, IV, pl. 274; ELLIOT, Syn. Trochil., 1879, p. 191; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 369.

Vestipedes mosquera mosquera OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 330 (Pichincha, Ecuador).

Vestipedes mosquera CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 302.

Range: Southern Colombia and northern Ecuador.

***Vestipedes mosquera bogotensis** *Hartert.*[b] BOGOTA PUFF-LEG.

Eriocnemis mosquera bogotensis HARTERT, Nov. Zool., IV, 1897, p. 531 (Bogota); *Id.*, Das Tierreich, 1900, p. 147.

Range: Eastern Andes, central and northern Colombia.

2: Colombia (Bogota?).

Vestipedes flocus (*Nelson*).[c] PANAMA PUFF-LEG.

Eriocnemis flocus NELSON, Smith. Misc. Coll., 60, No. 2143, 1912, p. 60 (eastern slope of Mt. Pirri, alt. 5000 ft., near head of Rio Limon, eastern Panama).

Range: Eastern Panama (known from type locality only).

[a] No specimens seen by me. It is evidently closely related to *V. cupreoventris.*

[b] *Vestipedes mosquera bogotensis* HARTERT: A very questionable subspecies, which is supposed to differ in having a longer bill. Chapman considers it inseparable from *V. m. mosquera; cf.* Bull. Am. Mus. N. H., XXXVI, 1917, p. 302.

[c] *Vestipedes flocus* (NELSON): Plainly colored species similar to *V. aureliae* in size and general coloration of upper parts, but differs in having under parts much greener with gray borders to the feathers; abdomen whitish; left tufts pinkish buffy and having a "stringy, woolly appearance."

NOTE.— I have not compared specimens, but from description, this bird is very close to *V. aureliae caucensis* SIMON.

***Vestipedes aureliae aureliae** (*Bourcier and Mulsant*). AURELIA'S PUFF-LEG.

Trochilus aureliae BOURCIER and MULSANT, Ann. Soc. Agric. Lyon, IX, 1846, p. 315, pl. 10 (Bogota).

Eriocnemis aureliae GOULD, Mon. Trochil., 1855, IV, pl. 283; ELLIOT, Syn. Troch., 1879, p. 190; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 370, part.

Vestipedes aureliae aureliae CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 302 (Barro Blanco; La Candela; San Agustin; El Roble; El Piñon, Colombia).

Range: Eastern Colombia (from eastern slope of central Andes).

8: "Colombia."

Vestipedes aureliae caucensis[a] *Simon*. SIMON'S PUFF-LEG.

Eriocnemis aureliae caucensis SIMON, Rev. Franc. d'Orn., No. 28, August, 1911, p. 130 (San Antonio, 1900 met., western Andes, Colombia); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 302, crit. (San Antonio; Cerro Munchique; Gallera; Andes west of Popayan; Miraflores; Salento, western Colombia).

Range: Western Colombia (from western slope of the central Andes).

***Vestipedes assimilis** (*Elliot*). BROWN-BOOTED PUFF-LEG.

Eriocnemis assimilis ELLIOT, Bull. Soc. Zool. France, I, 1876, p. 227 ("Apollo and Tilotilo," Bolivia); *Id.*, Syn. Trochil., 1879, p. 189; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 371.

Eriocnemis affinis TACZANOWSKI, Orn. Perou, I, 1884, p. 396.

Range: Bolivia and Peru.

1: "Bolivia."

***Vestipedes russata** (*Gould*). BUFF PUFF-LEG.

Eriocnemis russata GOULD, Proc. Zool. Soc. Lond., 1871, p. 505 (Ecuador); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 370; HARTERT, Nov. Zool., II, 1895, p. 69; *Id.*, Das Tierreich, 1900, p. 147.

Range: Eastern Ecuador.

1: "Ecuador."

***Vestipedes lugens** (*Gould*). HOARY PUFF-LEG.

Eriopus lugens GOULD, Contr. Orn., 1851, p. 140 (Quito).

Eriocnemis lugens GOULD, Mon. Trochil., IV, 1854, pl. 282; ELLIOT, Syn. Trochil., 1879, p. 190; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 371; (Baisa, Ecuador); E. & C. HARTERT, Nov. Zool., I, 1894, p. 60 (Rio Patassa, east of Andes, Ecuador).

Eriocnemis squamata GOULD, Proc. Zool. Soc. Lond., 1860, p. 311 (Ecuador).[b]

[a] *Vestipedes aureliae caucensis* SIMON: Similar to *V. a. aureliae*, but abdomen more extensively white and anterior under parts margined with whitish instead of buffy; tibial tuft white (without tinge of tawny).

[b] *Cf.* Hartert, Nov. Zool., I, 1894, p. 60, in text.

Vestipedes lugens OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 330 (Papallacta, eastern Ecuador).

Range: Ecuador.

1: "Ecuador."

***Vestipedes nigrivestris** (*Bourcier and Mulsant*). BLACK-BREASTED PUFF-LEG.

Trochilus nigrivestris BOURCIER and MULSANT, Ann. Soc. Agric. Lyon (2), IV, 1852, p. 144 (Tumbaro, Ecuador).

Eriocnemis nigrivestris GOULD, Mon. Trochil., IV, 1858, pl. 276; ELLIOT, Syn. Trochil., 1879, p. 194; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 365 (Intac; Pichincha; Sarayacu; Cochabamba, Ecuador).

Vestipedes nigrivestris OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 331 (Atacazo and Pichincha, Ecuador).

Range: Ecuador.

1: "Ecuador."

Vestipedes berlepschi (*Hartert*)[a]. BERLEPSCH'S PUFF-LEG.

Eriocnemis berlepschi HARTERT, Nov. Zool., IV, 1897, p. 531 (Colombia); *Id.*, Das Tierreich, 1900, p. 148.

Range: Colombia? Bogota?

***Vestipedes alinae** (*Bourcier*). METALLIC PUFF-LEG.

Ornismya alinae BOURCIER, Ann. Soc. Agric. Lyon, V, 1842, p. 344, pl. 19 (Tunja).

Eriocnemis alinae GOULD, Mon. Trochil., IV, 1859, pl. 280; ELLIOT, Syn. Trochil., 1879, p. 191; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 363 (Pasto).

Vestipedes alinae OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 331 (Pasto).

Range: Colombia and northern Ecuador.

5: "Ecuador" 1; "Colombia" 4.

***Vestipedes dybowskii** (*Taczanowski*). DYBOWSKI'S PUFF-LEG.

Eriocnemis dybowskii TACZANOWSKI, Proc. Zool. Soc. Lond., 1882, p. 39 (Ray-Urmana, Peru); *Id.*, Orn. Perou, I, 1884, p. 394; HARTERT, Das Tierreich, 1900, p. 140; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 361, footnote.

Range: Northern Peru.

1: Peru (Uchco).

[a] *Vestipedes berlepschi* (HARTERT): A questionable species, while according to Hartert (l.c.) may be distinguished from *V. nigrivestris* chiefly by its much longer bill (bill from end of feathering 19 mm.); greener upper parts and less bright throat spot. The type was found in a collection of birds supposed to have come from Bogota. It is not improbable that it may represent a race of *V. nigrivestris* from some unknown locality.

***Vestipedes derbyi derbyi** (*Delattre and Bourcier*). DERBY'S PUFF-LEG.

Trochilus derbyi DELATTRE and BOURCIER, Rev. Zool., 1846, p. 306 (Volcan Puracé, near Popayan).
Eriocnemis derbyanus GOULD, Mon. Trochil., IV, 1858, pl. 279.
Eriocnemis derbiana ELLIOT, Syn. Trochil., 1879, p. 189, part.
Eriocnemis derbyi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 362, part.
Vestipedes derbyi derbyi OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 331 (Pasto, southern Colombia).

Range: Northern Ecuador and southern Colombia.
1: "Colombia."

***Vestipedes derbyi longirostris** (*Hartert*).[a] LONG-BILLED PUFF-LEG.

Eriocnemis derbyi longirostris HARTERT, Nov. Zool., II, 1895, p. 69 (Bogota); *Id.*, Das Tierreich, 1900, p. 149.
Vestipedes derbyi longirostris CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 302.

Range: Colombia (central and eastern Andes).[b]
1: Colombia (Bogota?).

Genus **OCREATUS** Gould.

Ocreatus Gould, Proc. Zool. Soc. Lond., 1846, p. 86 (Type *Trochilus addae* Bourcier).
Steganurus Reichenbach, Syst. Av. Nat. (Dec.), 1849, pl. 40 (Type *O. underwoodi* Lesson).
Spathura Gould, Mon. Trochil. (June), 1849, pl. 164 (Type *S. peruana* Gould).

***Ocreatus underwoodi underwoodi** *Lesson*. WHITE-FOOTED RACKET-TAIL.

Ornismya underwoodi LESSON, Hist. Nat. Trochil., 1832, p. 105, pl. 37 (Santa Fé de Bogota).
Trochilus caligatus GOULD, Proc. Zool. Soc. Lond., 1848, p. 14.
Spathura underwoodi GOULD, Mon. Trochil., III, 1849, pl. 162; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 375, part; HARTERT, Nov. Zool., VI, 1899, p. 72.
Steganura underwoodi ELLIOT, Syn. Trochil., 1879, p. 142.
O[creatus] underwoodi (typicus) HARTERT, Das Tierreich, 1900, p. 150.
Ocreatus underwoodi underwoodi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 303, crit. (various localities in Colombia).

Range: Colombia.
8: Colombia (Bogota 3, "Colombia" 5).

[a] *Vestipedes derbyi longirostris* (HARTERT): Differs from *V. d. derbyi* in having the bill decidedly longer; other characters supposed to distinguish this form are apparently inconstant.

[b] Chapman (l.c.) suspects that the true home of this race is in the central Andes and that the type locality ("Bogota") may be wrong.

***Ocreatus underwoodi discifer**[a] *Heine*. BUCENO'S WHITE-FOOTED RACKET-TAIL.

Steganurus discifer HEINE, Journ. fur Ornith., XI, 1863, p. 210 (Merida, Venezuela).

Spathura underwoodi bricenoi HARTERT, Nov. Zool., VI, 1899, p. 72 (Merida).

Spathura underwoodi discifer HELLMAYR and SEILERN, Proc. Zool. Soc. Lond., 1911, p. 145.

Range: Venezuela.

4: Venezuela (near Merida).

***Ocreatus underwoodi melanantherus**[b] (*Jardine*). OBLONG RACKET-TAIL.

Trochilus (*Spathura*) *melananthera* JARDINE, Contr. Orn., 1851, p. 11, pl. 20 (Quito).

Spathura melananthera GOULD, Mon. Trochil., III, 1859, pl. 163; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 376 (Pallatanga; Nanegal; Citado; Quito, Ecuador).

Range: Ecuador.

4: "Ecuador."

***Ocreatus cissiurus cissiurus** (*Gould*). SCISSOR-TAILED RACKET-TAIL.

Spathura cissiura GOULD, Proc. Zool. Soc. Lond., 1853, p. 109 (Peru); *Id.*, Mon. Trochil., III, 1860, pl. 166.

Steganura cissiura ELLIOT, Syn. Trochil., 1879, p. 144.

Spathura solstitialis GOULD, Ann. & Mag. N. H., VIII, 1871, p. 62; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 377.

O[*creatus*] *cissiurus* HARTERT, Das Tierreich, 1900, p. 151.

Ocreatus cissiurus OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 332 (Baeza, eastern Ecuador).

Range: Ecuador and northern Peru.

1: "Ecuador."

Ocreatus cissiurus peruanus[c] (*Gould*). PERUVIAN RACKET-TAIL.

Spathura peruana GOULD, Mon. Trochil., III, 1849, pl. 164 (Moyobamba, Peru).

Steganura peruana ELLIOT, Syn. Trochil., 1879, p. 143.

Spathura peruana SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 378.

O[*creatus*] *peruanus* HARTERT, Das Tierreich, 1900, p. 151.

Range: Peru.

[a] *Ocreatus underwoodi discifer* (HEINE): Male only slightly different from *O. u. underwoodi* chiefly in size of green spots on sides of neck and body, but females of *O. u. discifer* have the throat and chest white, without spots or a few minute ones.

[b] *Ocreatus underwoodi melananthera* (JARDINE): Similar to *O. u. underwoodi*, but tail shorter and terminal spatules smaller; females somewhat more spotted on anterior under parts.

[c] *Ocreatus cissiurus peruanus* (GOULD): Differs from *O. c. cissiurus* in having the outer web of outer tail feather like the inner web (not grayish as in *cissiurus*).

Ocreatus addae (*Bourcier*). RED-BOOTED RACKET-TAIL.

Trochilus addae BOURCIER, Rev. Zool., 1846, p. 312 (Bolivia).
Spathura rufocaligata GOULD, Mon. Trochil., III, 1849, pl. 165.
Steganura addae ELLIOT, Syn. Trochil., 1879, p. 143.
Spathura addae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 378.
O[creatus] addae HARTERT, Das Tierreich, 1900, p. 151.

Range: Bolivia.

Ocreatus annae[a] (*Berlep. and Stolz.*). ANNA'S RACKET-TAIL.

Spathura annae BERLEPSCH and STOLZMANN, Ibis, 1894, p. 398 (Chanchamayo, Peru); *Id.*, Proc. Zool. Soc. Lond., 1892, p. 25 (La Gloria; Garita del Sol; Vitoc, Peru).
O[creatus] annae HARTERT, Das Tierreich, 1900, p. 152.

Range: Central Peru.

Genus **UROSTICTE** Gould.

Urosticte Gould, Mon. Trochil., III, 1853, pl. 190; *Id.*, Introd. Trochil., p. 110 (Type *Trochilus benjamini* Bourcier).

***Urosticte benjamini benjamini** (*Bourcier*). WHITE-TIP.

Trochilus benjamini BOURCIER, Comp. Rend., XXXII, 1851, p. 187 (near Gualea, western Ecuador).
Urosticte benjamini GOULD, Mon. Trochil., III, 1853, pl. 190; ELLIOT, Syn. Trochil., 1879, p. 92; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 167; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 332 (Gualea and San Domingo, western Ecuador).
Urosticte benjamini benjamini CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 303 (Ricaurte, Colombia).

Range: Ecuador; southern Colombia?

3: "Ecuador."

Urosticte benjamini rostrata[b] *Hellmayr.* LARGE-BILLED WHITE-TIP.

Urosticte benjamini rostrata HELLMAYR, Verh. Ornith. Gesell. Bayern, XII, 1915, p. 125 (San Juan River, western Colombia, alt. 4600 ft.).

Range: Western Colombia.

[a] *Ocreatus annae* (BERLEP. and STOLZ.): Resembles *O. addae* from Bolivia but differs in the complete absence of white at the base of the feathers of the lower neck and breast; the under tail coverts not bordered with whitish rufous and the external rectrices generally longer but with smaller spatules.

[b] *Urosticte benjamini rostrata* HELLMAYR: Very similar to *U. b. benjamini*, but with a duller violet (less rufous) throat spot and a much longer and thicker bill. Wing, 52; tail, 36; bill, 24 mm. (immature male).

***Urosticte ruficrissa** *Lawrence.* RUFOUS-VENTED WHITE-TIP.

Urosticte ruficrissa LAWRENCE, Ann. Lyc. Nat. Hist. N. Y., VIII, 1877, p. 44 (Ecuador); ELLIOT, Syn. Trochil., 1879, p. 91; GOULD, Suppl. Trochil., 1883, pl. 24; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 169; HARTERT, Das Tierreich, 1900, p. 153.

Range: North Ecuador and Colombia.

1: "Colombia."

Urosticte intermedia *Taczanowski.* PERUVIAN WHITE-TIP.

Urosticte intermedia TACZANOWSKI, Proc. Zool. Soc. Lond., 1882, p. 36 (Chirimoto Peru); *Id.*, Orn. Perou, I, 1884, p. 351; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 168; HARTERT, Das Tierreich, 1900, p. 153.

Range: Peru.

Genus **PHLOGOPHILUS** Gould.

Phlogophilus Gould, Proc. Zool. Soc. Lond., 1860, p. 310 (Type *Phlogophilus hemileucurus* Gould).

Phlogophilus hemileucurus *Gould.* PIED-TAIL.

Phlogophilus hemileucurus GOULD, Proc. Zool. Soc. Lond., 1860, p. 310 (Rio Napo, Ecuador); *Id.*, Mon. Trochil., V, 1861, pl. 360; ELLIOT, Syn. Trochil., 1879, p. 172; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 173.

Range: Southeastern Ecuador.

Phlogophilus harterti[a] *Berlep. and Stolz.* HARTERT'S PIED-TAIL.

Phlogophilus harterti BERLEPSCH and STOLZMANN, Ibis, 1901, p. 717 (Huaynapata, Marcapata Region, Peru).

Range: Peru.

Genus **ADELOMYIA** Bonaparte.

Adelomyia Bonaparte, Rev. Zool., 1854, p. 253 (Type *Trochilus melanogenys* Fraser).

***Adelomyia melanogenys melanogenys** (*Fraser*). BLUE-CHEEKED ADELOMYIA.

Trochilus melanogenys FRASER, Proc. Zool. Soc. Lond., 1840, p. 18 (Bogota).

[a] *Phlogophilus harterti* BERLEPSCH and STOLZMANN: Female (and only known specimen) differs from female of *P. hemileucurus* in having the under parts tinged with pale rufous, the rufous most pronounced on throat and sides of body; middle of breast and belly, whitish; greenish spots on sides of throat and auricular region small and inconspicuous (in *hemileucurus* they are large and well marked with metallic green reflections with a broken band of greenish on the breast and the rest of under parts pure white). The upper parts of body are slightly deeper colored and more bluish green than in *hemileucurus*. The white ends of the tail feathers are tinged with rufous which is not the case of females of *hemileucurus*. Wing, 45; tail, 26.5 mm.

Trochilus sabinae BOURCIER and MULSANT, Ann. Soc. Phys. et Nat. Lyon, VI, 1846, p. 323 (Bogota).

Adelomyia melanogenys ELLIOT, Syn. Trochil., 1879, p. 182, part; Salvin, Cat. Bds. Brit. Mus., XVI, 1892, p. 169, part; Hartert (E. & C.) Nov. Zool., I, 1894, p. 51 (illust. of tail, p. 54).

Adelomyia melanogenys melanogenys OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 332 (Papallacta and Baeza, eastern Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 304 (Fusugasugá; Quetame, Colombia).

Range: Eastern Colombia and eastern Ecuador.

11: Colombia (Paramo de Tama 3, "Colombia" 8).

Adelomyia melanogenys maculata[a] *Gould.* SPOTTED ADELOMYIA.

Adelomyia maculata GOULD, Mon. Trochil., III, 1861, pl. 199 (Quito); *Id.*, Proc. Zool. Soc. Lond., 1870, p. 803; HARTERT (E. C.), Nov. Zool., I, 1894, p. 51 (illust. of tail, p. 54).

A[delomyia] melanogenys maculata HARTERT, Das Tierreich, 1900, p. 155 (crit.).

Adelomyia melanogenys maculata OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 332 (Milligalli; Canzacota and west of Pichincha, western Ecuador).

Range: Western Ecuador.

Adelomyia melanogenys chlorospila[b] *Gould.* GREENISH ADELOMYIA.

Adelomyia chlorospila GOULD, Ann. & Mag. N. H., X, 1872, p. 452 (San Antonio, Peru); ELLIOT, Syn. Trochil., 1879, p. 182.

A[delomyia] melanogenys chlorospila HARTERT, Das Tierreich, 1900, p. 155.

Range: Peru.

***Adelomyia melanogenys aeneosticta** *Simon.* DOVE-SPOTTED ADELOMYIA.

Adelomyia aeneosticta SIMON, Mem. Soc. Zool., France, II, No. 4, 1889, p. 223 (Venezuela).

Adelomyia aeneotincta SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 171.

A[delomyia] melanogenys aenoesticta HARTERT, Das Tierreich, 1900, p. 155.

Adelomyia melanogenys aeneosticta HELLMAYR and SEILERN, Arch. fur Naturg., Ab. A, 5 Heft, 1912, p. 145 (crit.).

Range: Andes of Venezuela from Caracas westward.

2: Venezuela (near Merida).

Adelomyia melanogenys cervina *Gould.* FAWN-COLORED ADELOMYIA.

Adelomyia cervina GOULD, Ann. & Mag. N. H., X, 1872, p. 453 (Medellin); ELLIOT, Syn. Trochil., 1879, p. 181; SHARPE, in Gould's Mon. Trochil. Suppl., 1887, pl. 46; SIMON and DELMAS, Ornis, 1901, p. 210; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 171.

[a] *Adelomyia melanogenys maculata* GOULD: Differs from *A. m. melanogenys* in having the pale basal portion of rectrices lighter colored and extending far beyond the ends of the under tail coverts and pale tips of tail feathers larger; the upper parts (back, etc.), average more bronzy green.

[b] *Adelomyia melanogenys chlorospila* GOULD: Similar to *A. m. melanogenys*, but hroat spotted with green.

A[delomyia] melanogenys cervina HARTERT, Das Tierreich, 1900, p. 156.
Adelomyia melanogenys cervina CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 304 (subtropical zone of western and central Andes, Colombia; many localities).

Range: Colombia.

Adelomyia inornata (*Gould*). PURPLE-THROATED ADELOMYIA.

Trochilus (——?) *inornatus* GOULD, Proc. Zool. Soc. Lond., 1846, p. 80 (Sandillani, Yungas).
Adelomyia inornata GOULD, Mon. Trochil., III, 1855, pl. 197; ELLIOT, Syn. Trochil., 1879, p. 181; TACZANOWSKI, Orn. Perou, I, 1884, p. 359; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 172 (Tilotelo and Chairo, Yungas, Bolivia).

Range: Bolivia.

Genus **HELIANGELUS** Gould.

Heliangelus Gould, Proc. Zool. Soc. Lond., 1848, p. 12 (Type *Ornismya clarissae* Longuemare).

***Heliangelus mavors** *Gould*. MAVOR'S SUN ANGEL.

Heliangelus mavors GOULD, Proc. Zool. Soc. Lond., 1848, p. 12 (Andes of Venezuela and Colombia); *Id.*, Mon. Trochil., IV, 1855, pl. 246; ELLIOT, Syn. Trochil., 1879, p. 91; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 163; HARTERT, Das Tierreich, 1900, p. 157.

Range: Andes of Venezuela.
3: Venezuela (near Merida).

***Heliangelus spencei** *Bourcier*. SPENCER'S SUN ANGEL.

Trochilus spencei BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 46 (Merida).
Heliangelus spencei GOULD, Mon. Trochil., IV, 1855, pl. 244; ELLIOT, Syn. Trochil., 1879, p. 90; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 162; HARTERT, Das Tierreich, 1900, p. 157.

Range: Andes of Venezuela.

***Heliangelus strophianus** (*Gould*). GORGETED SUN ANGEL.

Trochilus strophianus GOULD, Proc. Zool. Soc. Lond., 1846, p. 45 (Ecuador).
Heliangelus strophianus GOULD, Mon. Trochil., IV, 1855, pl. 243; ELLIOT, Syn. Trochil., 1879, p. 90; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 161; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 333 (San Gabriel; Gualea and west of Pichincha, Ecuador; Popayan Colombia).
Heliangelus henrici BOUCARD, Humming Bd., I, 1891, p. 26 (Ecuador).[a]

Range: Ecuador and southern Colombia (Popayan).
3: "Ecuador."

[a] *Cf.* Simon and Hellmayr, Nov. Zool., XV, 1908, p. 6.

***Heliangelus clarissae** (*Longuemare*). LONGUEMARE'S SUN ANGEL.

Ornismya clarissae LONGUEMARE, Rev. Zool., 1841, p. 306 (Bogota).

Heliangelus clarissae GOULD, Mon. Trochil., IV, 1855, pl. 241; WYATT, Ibis, 1871, p. 378; ELLIOT, Syn. Trochil., 1879, p. 89; BERLEPSCH, Journ. fur Ornith., 1884, p. 310; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 160.

Heliangelus taczanowskii PELZELN, Ibis, 1877, p. 338.

Range: Colombia and extreme western Venezuela.

13: Colombia (Paramo de Tama, near Venezuelan line 4; "Colombia" 8); Venezuela (Paramo de Tama, near Colombian line, 1).

Heliangelus laticlavus *Salvin.* SALVIAN'S SUN ANGEL.

Heliangelus laticlavus SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 160, pl. V, Fig. 1 (Ecuador); HARTERT (E. & C.) Nov. Zool., I, 1894, p. 50 (Loja, southern Ecuador, alt. 9000 ft.); HARTERT, Das Tierreich, 1900, p. 158.

Range: Ecuador.

***Heliangelus amethysticollis** (*d'Orb. and Lafr.*). AMETHYSTINE SUN ANGEL.

Orthorhynchus amethysticollis D'ORBIGNY and LAFRESNAYE, Mag. de Zool. (Syn. Av.), III, 1838, p. 31 (Yuracares, Bolivia).

Heliangelus amethysticollis GOULD, Mon. Trochil., IV, 1855, pl. 245; TACZANOWSKI, Orn. Perou, I, 1884, p. 381; ELLIOT, Ibis, 1877, p. 144; *Id.*, Syn. Trochil., 1879, p. 90; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 161; SIMON, Nov. Zool., IX, 1902, p. 180; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902 (Baeza, eastern Ecuador).

Range: Bolivia and Peru.

2: "Bolivia" 1; Peru ((Molinopampa) 1.

Heliangelus violicollis *Salvin.* SARAYACU SUN ANGEL.

Heliangelus violicollis SALVIN, Ann. & Mag. Nat. Hist., 1891, p. 376 (Ecuador); *Id.* Cat. Bds. Brit. Mus., XVI, 1892, p. 162, pl. V, Fig. 2 (Sarayacu, Ecuador).

Heliotrypha violicollis HARTERT, Nov. Zool., IV, 1897, p. 532, in text, crit.

H[eliangelus] violicollis HARTERT Das Tierreich, 1900, p. 159.

Range: Ecuador.

Heliangelus dubius[a] *Hartert.* HARTERT'S SUN ANGEL.

NOTE.— Authorities differ as to the standing of *Heliangelus violicollis* SALVIN, *H. dubius* HARTERT, and *H. speciosus* SALVIN. Having no authentic specimens for comparison I have followed Hartert and accepted these species (?) provisionally. In this connection see Hartert, Nov. Zool., IV, 1897, pp. 532–533.

Heliangelus dubius HARTERT, Nov. Zool., IV, 1897, p. 532 (found in a "Bogota" collection); *Id.*, Das Tierreich, 1900, p. 159.

Range: Colombia.

[a] *Heliangelus dubius* HARTERT: Resembles *H. clarissae*, but throat violet-blue (not red).

***Heliangelus barrali** (*Muls. and Verreaux*). OLIVE-THROATED SUN ANGEL.

Heliotrypha barrali MULSANT and VERREAUX, Ann. Soc. Linn. Lyon, XVIII, 1872, p. 106 (Colombia); ELLIOT, Syn. Trochil., 1879, p. 88; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 166, pl. VI, Fig. 2.

Heliangelus barrali HARTERT, Nov. Zool., IV, 1897, p. 532 (crit.); *Id.*, Das Tierreich, 1900, p. 159.

Heliangelus squamigularis GOULD, Proc. Zool. Soc. Lond., 1871, p. 503.

Range: "Colombia."

1: "Colombia."

***Heliangelus speciosus**[a] *Salvin*. GREEN-THROATED SUN ANGEL.

Heliotrypha speciosa SALVIN, Ann. & Mag. Nat. Hist., 1891, p. 376 (Colombia); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 167, pl. VI, Fig. 1 (Colombia?).

H[eliangelus] speciosus HARTERT, Das Tierreich, 1900, p. 159.

Heliangelus simoni BOUCARD, Humming Bd., II, 1892, p. 76 (Colombia).[b]

Range: Colombia.

1: "Colombia" (labelled "*simoni*, typical specimen" by Boucard).

***Heliangelus exortis** (*Fraser*). PARZUDAKI'S SUN ANGEL.

Trochilus exortis FRASER, Proc. Zool. Soc. Lond., 1840, p. 14 (Guaduas, Colombia).

Heliotrypha parzudakii BONAPARTE, Rev. Zool., 1854, p. 252; GOULD, Mon. Trochil., IV, 1860, pl. 240; SCLATER and SALVIN, Proc. Zool. Soc. Lond., 1879, p. 539 (Sta. Elena).

Heliotrypha exortis ELLIOT, Ibis, 1876, p. 318; *Id.*, Syn. Trochil., 1879, p. 87; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 165.

Heliangelus exortis HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1186 (Tamata, Mt.).

(?) *Heliangelus exortis soderstromi* OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 334 (Corazon, Ecuador).

Range: Colombia and northern Ecuador.

12: "Colombia" 10; "Ecuador" 2.

***Heliangelus micraster** *Gould*. LITTLE SUN ANGEL.

Heliangelus micraster GOULD, Ann. & Mag. N. H., 1872, p. 195 (San Lucas, Ecuador); *Id.*, Mon. Trochil., Suppl., 1883, pl. 23; HARTERT (E. & C.) Nov. Zool., I, 1894, p. 50.

Heliotrypha micrastur ELLIOT, Syn. Trochil., 1879, p. 88; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 166; TACZANOWSKI, Orn. Perou, I, 1840, p. 380.

Range: Southern Ecuador and north Peru.

2: "Ecuador."

[a] The standing of this supposed species is very uncertain (*Cf.* Hartert, l.c.). It may prove to be a race of *H. barrali* from some unknown locality. Salvin (l.c.) states that the type is "apparently of Bogota make."

[b] *Cf.* Simon, Cat. Fam. Trochil., p. 31.

***Heliangelus viola** *Gould.* VIOLA SUN ANGEL.

Heliangelus viola GOULD, Proc. Zool. Soc. Lond., 1853, p. 61 (Banks of the Maranon); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 334 (Papallacta, eastern Ecuador and Pichincha, western Ecuador).

Heliotrypha viola GOULD, Mon. Trochil., IV, 1853, pl. 241; ELLIOT, Syn. Trochil., 1879, p. 87; TACZANOWSKI, Orn. Perou, I, 1884, p. 379; HARTERT, (E. & C.) Nov. Zool., 1894, p. 50.

Range: Ecuador and northern Peru.

1: "Ecuador."

Heliangelus rothschildi[a] *Boucard.* ROTHSCHILD'S SUN ANGEL.

Heliangelus rothschildi BOUCARD, The Humming Bd., II, 1892, p. 77 (Bogota); SIMON and HELLMAYR, Nov. Zool., XV, 1908, p. 5 (crit.); HARTERT, Das Tierreich, 1900, p. 161.

(?) *Aeronympha prosantis* OBERHOLSER, Proc. Biol. Soc. Wash., XVIII, 1905 p. 162 (Colombia, Bogota ?).[b]

Range: Colombia.

Heliangelus claudia[c] *Hartert.* CLAUDIA'S SUN ANGEL.

Heliangelus claudia HARTERT, Nov. Zool., II, 1895, p. 484 (Bogota); *Id.*, IV, 1897, p. 532.

H[eliangelus] claudia HARTERT, Das Tierreich, 1900, p. 161.

Range: Colombia.

Genus **METALLURA** Gould.

Metallura Gould, Proc. Zool. Soc. Lond., 1847, p. 94 (Type *Trochilus opaca* Licht.).[d]

Laticauda Lesson, Echo du Monde Savant., Ser. 2, VIII, Oct. 1843, p. 758 (Type *Trochilus tyrianthinus* Loddiges).

[a] *Heliangelus rothschildi* BOUCARD: Upper parts, including tail, lustrous purple, with brilliant spot on forehead; outermost rectrices slightly tipped with grayish buff; throat brilliant coppery-gold with reddish reflections; sides of throat, black; upper parts of breast, grayish buff; lower breast and abdomen dark gray washed with bronzy green; lower breast and abdomen dark gray washed with bronzy-green; sides of breast and flanks purple; under tail coverts buffy-white with greenish line in center of each feather; a white spot behind the eye; under surface of tail, bluish purple; wings purplish brown; bill black. Wing, 66; lat. rectrices, 43.5; mid. rectrices, 36; bill, 14.5 mm.

[b] The type of *Aeronympha prosantis* Oberholser (No. 11852, Field Museum of Natural History) is in my opinion not fully adult and may be a female. It was found among a lot of birds from Colombia collected by C. Balen (no date or definite locality). I have seen no females or immature males of *H. rothschildi* for comparison and it may represent a distinct form of *Heliangelus*. Messrs. Simon and Hellmayr (l.c.) believe it to be an immature *H. rothschildi*.

[c] *Heliangelus claudia* HARTERT: Back slightly glossed with purple; forehead with purplish black spot; throat bluish hyacinth (somewhat like *H. violicollis*, but not so deep and less violet); pectoral band whitish; under tail coverts white; abdomen grayish black. Wing, 65; tail, 42; bill, 16 mm.

[d] *Cf.* Miller (W. de W.) Auk, 1913, p. 583.

Metallura phoebe phoebe (*Less. and Delatt.*). PHOEBE'S COPPER-TAIL.

Ornismya phoebe LESSON and DELATTRE, Rev. Zool., 1839, II, p. 17 (Andes of Peru).

Trochilus (*Lampornis*) *opacus* LICHTENSTEIN in Tschudi, Arch. fur Naturg., 1844, p. 98 (Peru).

Trochilus cupreicauda GOULD, Proc. Zool. Soc. Lond., 1846, p. 87.

Metallura cupreicauda GOULD, Proc. Zool. Soc. Lond., 1847, p. 94; *Id.*, Mon. Trochil., III, 1859, pl. 191.

Metallura opaca ELLIOT, Syn. Trochil., 1879, p. 163; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 150.

M[*etallura*] *phoebe* HARTERT, Das Tierreich, 1900, p. 162.

Range: Southern Peru and Bolivia.

***Metallura phoebe jelskii** *Cabanis*. JELSKI'S COPPER-TAIL.

Metallura jelskii CABANIS, Journ. fur Ornith., 1874, p. 99 (central Peru); ELLIOT Syn. Trochil., 1879, p. 164; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 151; HARTERT, Das Tierreich, 1900, p. 102.

Metallura phoebe jelskii SIMON, Nov. Zool., IX, 1902, p. 181 (Prov. Otuzco and Prov. Cajabamba, Peru); BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1892, p. 26 (Tarma, Tambo de Aza, Peru).

Range: Central Peru.

1: Peru (Cajamarca).

Metallura primolina *Bourcier*. ECUADOR COPPER-TAIL.

Metallura primolina BOURCIER, Rev. Zool., 1852, p. 295 (Ecuador); GOULD, Mon. Trochil., III, 1861, pl. 194; ELLIOT, Syn. Trochil., 1897, p. 165; SALVIN, Cat. Bds. Brit. Mus., 1892, XVI, p. 154.

Metallura primolii SHARPE, in Gould's Suppl. Mon. Trochil., 1887, pl. 45.

Laticauda primolina OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 334 (Papallacta; Curiurcu; above Baeza, Ecuador).

Range: Northern Ecuador.

Metallura atrigularis[a] *Salvin*. BLACK-THROATED COPPER-TAIL.

Metallura atrigularis SALVIN, Bull. Brit. Orn. Club, I, 1893, p. XLIX (Ecuador); *Id.*, (Reprint) Ibis, 1893, p. 449; HARTERT (E. & Cl.); Nov. Zool., I, 1894, p. 49, pl. IV, Figs. 1–2; HARTERT, Das Tierreich, 1900, p. 163.

Range: Southern Ecuador.

Metallura eupogon *Cabanis*. RED-THROATED COPPER-TAIL.

Metallura eupogon CABANIS, Journ. fur Ornith., 1874, p. 97 (Maraynioc, Peru); ELLIOT, Syn. Trochil., 1879, p. 164; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 155; HARTERT, Das Tierreich, 1900, p. 163.

[a] *Metallura atrigularis* SALVIN: (Male) upper parts bright bronzy green, showing faint metallic blue tinge if viewed from behind; wing, deep purple brown; small coverts on carpo-metacarpal joint, rufous; upper surface of tail, dark shining bronze-green (purplish steel blue if viewed from behind); under parts, bright bronzy green (metallic on throat and upper breast); middle of throat with large velvety black patch (the feathers of the black patch with concealed chestnut buff bar and grayish bases); under wing coverts bronzy green. The female resembles the male but lacks the black on the throat where the feathers are marked with green and buff.

Metallura hedvigae TACZANOWSKI, Proc. Zool. Soc. Lond., 1874, p. 139; *Id.*, Orn. Perou, I, 1884, p. 352.

Range: Andes of central Peru.

***Metallura rubriginosa** (*Cory*).[a] BALSAS COPPER-TAIL.

Laticauda rubriginosa CORY, Field Mus. Pub., No. 167, Orn. Ser. I, No. 7, 1913, p. 287 (Mountains east of Balsas, Peru; alt. 10,000 ft.).

Range: Peru.

1: Peru (Mts. east of Balsas, the type).

Metallura williami *Delatt. and Bourcier.* PURPLE-TAIL.

Metallura williami DELATTRE and BOURCIER, Rev. Zool., 1846, p. 308 (Popayan); GOULD, Mon. Trochil., III, 1859, pl. 193; ELLIOT, Syn. Trochil., 1879, p. 165; SALVIN, Cat. Bds. Brit. Mus., 1900, p. 155; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 305 (Valle de las Pappas; Santa Isabel, Colombia).

Range: Southern Colombia.

Metallura baroni[b] *Salvin.* BARON'S COPPER-TAIL.

Metallura baroni SALVIN, Bull. Brit. Orn. Club, I, 1893, p. 49 (Cuenca); HARTERT (E. & Cl.) Nov. Zool., I, 1894, p. 49, pl. IV, Figs. 3–4.

Range: Southern Ecuador.

Metallura theresiae *Simon.*[c] SIMON'S COPPER-TAIL.

Metallura theresiae SIMON, Nov. Zool., IX, 1902, p. 181 (Pataz).

Range: Peru.

[a] *Metallura rubriginosa* (CORY): Female (the type and only known specimen). Upper parts, crown, and sides of head rich bronzy red; a small buffy white spot in front of and behind the eye. Throat buff, the feathers tipped with spots of metallic green; feathers of the breast and belly dull bronzy red (tinged with olive green in some lights), but having a mottled appearance as all the feathers are buffy white at the bases; sides of body strongly washed with bronzy red; under tail coverts rufous banded with black; wings purplish brown, the bend of the wing edged with rufous; under surface of rectrices (except the outer web of outer feather) metallic green, outer web of outer tail feather blackish becoming pale at the tip; upper surface of rectrices steel blue when held in the light, the outer feather tipped with buff on the outer web. Bill and feet black. Total length (skin), 97 mm.; wing, 60; tail, 30; bill, 14.

[b] *Metallura baroni* SALVIN: (male). Above dark metallic olive, with a green tint; wings, deep purple brown; small coverts on carpo metacarpal joint pale rufous; tail like the back if viewed from above, shining violet purple if viewed from behind; under surface of tail metallic green; under parts of body like back, but feathers of lower flanks and under tail coverts bordered with dark buff; whole throat and chin bright violet purple. Wing, 53 to 55; tail, about 37; bill, about 13 mm.

[c] *Metallura theresiae* SIMON: Upper parts, including head, neck, and front of back, dull wine red, the lower part of back reddish (with a grayish green lustre when viewed from an opposite direction); under parts of body with the front portion to middle breast brilliant red, shaded with orange with a band on the throat of golden yellow or topaz commencing at the base of the bill and terminating in a point on the breast; lower breast and abdomen brownish, tinged more or less with bronze and the feathers with buffy edges; wings, violet black with outer edges of reddish buff. Tail, 38; bill, 12.5 mm.

Metallura chloropogon (*Cab. and Heine*). WHITE-VENTED COPPER-TAIL.

Urolampra chloropogon CABANIS and HEINE, Mus. Heine, III, 1860, p. 68 (Hab. ign.).

Metallura chloropogon ELLIOT, Syn. Trochil., 1879, p. 164; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 151.

M[etallura] chloropogon HARTERT, Das Tierreich, 1900, p. 164.

Range: Unknown.

***Metallura aeneocauda** (*Gould*). BRASSY-TAIL.

Trochilus aeneocauda GOULD, Proc. Zool. Soc. Lond., p. 87 (Bolivia).

Metallura aeneicauda GOULD, Mon. Trochil., III, 1859, pl. 192; WHITELY, Proc. Zool. Soc. Lond., 1873, p. 191; ELLIOT, Syn. Trochil., 1879, p. 165; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 152.

Range: Andes of Bolivia and southern Peru.

2: "Bolivia."

Metallura malagae *Berlepsch.*[a] BOLIVIAN COPPER-TAIL.

Metallura malagae BERLEPSCH, Journ. fur Ornith., 1897, p. 90 (Malaga, eastern Bolivia); HARTERT, Das Tierreich, 1900, p. 164.

Range: Eastern Bolivia.

***Metallura tyrianthina tyrianthina** (*Loddiges*). TYRIAN-TAIL.

Trochilus tyrianthinus LODDIGES, Proc. Zool. Soc. Lond., 1832, p. 6 (Popayan, Colombia).

Ornismya paulinae BOISSONNEAU, Rev. Zool., 1839, p. 354; *Id.*, Mag. de Zool., 1840, pl. 13.

Metallura tyrianthina GOULD, Mon. Trochil., III, 1859, pl. 195; ELLIOT, Syn. Trochil., 1879, p. 66; TACZANOWSKI, Orn. Perou, I, 1884, p. 305; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 152, part.

Ornismya allardi BOURCIER, Rev. Zool., 1839, II, p. 294.

(?) *Metallura griseocyanea* BOUCARD, Gen. Humming Bds., 1893, p. 75, in text.

M[etallura] tyrianthina (typica) HARTERT, Das Tierreich, 1900, p. 164.

Metallura tyrianthina tyrianthina CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 305 (Popayan; Almaguer; Laguneta; Sta. Elena; El. Piñon; etc., Colombia).

Range: Colombia; northeastern Ecuador?

10: Colombia (Paramo de Tama, near Venezuelan line, 3; "Colombia" 7).

***Metallura tyrianthina oreopola** *Todd.*[b] VENEZUELAN TYRIAN-TAIL.

Metallura tyrianthina oreopola TODD, Proc. Biol. Soc. Wash., XXVI, 1913 (Aug. 8), p. 174 (Estado Lara, Venezuela).

[a] *Metallura malagae* BERLEPSCH: Similar to *Metallura aeneocauda*, but differs in having the rectrices violet copper, instead of yellow and bluish green; bill somewhat longer. I suspect this form will prove to be of subspecific rank.

[b] *Metallura tyrianthina oreopola* TODD: Differs from *M. t. tyrianthina* in having the general coloration darker and the tail maroon purple, instead of coppery bronze.

Metallura thyrianthina harterti SCHLÜTER, Falco Halle, IX, No. 3, 1913 (October), p. 42 (Merida, Andes of Venezuela).

Range: Andes of Venezuela.

†10: Venezuela (near Merida).

***Metallura tyrianthina quitensis** *Gould.*[a] QUITO TYRIAN-TAIL.

Metallura quitensis GOULD, Introd. Trochil., 1861, p. 112 (Ecuador).

Metallura tyrianthina quitensis HARTERT (E. & Cl.) Nov. Zool., I, 1894, p. 48 (Ecuador).

Laticauda tyrianthina quitensis OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 335 (Pichincha; Jambello, etc., Ecuador).

Range: Ecuador.

2: "Ecuador."

***Metallura smaragdinicollis smaragdinicollis** (*d'Orb. and Lafr.*). VIOLET-TAIL.

Orthorhynchus smaragdinicollis D'ORBIGNY and LAFRESNAYE, Syn. Avi., II, 1838, p. 31 (Yungas, Bolivia).

Metallura smaragdinicollis GOULD, Mon. Trochil., 1859, pl. 196; TACZANOWSKI, Orn. Perou, I, 1884, p. 356; ELLIOT, Syn. Trochil., 1879, p. 166; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 154.

Range: Bolivia and Peru.

4: "Bolivia" 1; Peru (Molinopampa 2, "Peru" 1).

Metallura smaragdinicollis districta *Bangs.*[b] BANG'S VIOLET-TAIL.

Metallura districta BANGS, Proc. Biol. Soc. Wash., XIII, 1899, p. 94 (Santa Marta, Colombia).

Range: Northern Colombia.

Metallura smaragdinicollis septentrionalis[c] *Hartert.* HARTERT'S VIOLET-TAIL.

Metallura smaragdinicollis septentrionalis HARTERT, Nov. Zool., VI, 1899, p. 73 (Cajabamba, Peru); SIMON, Nov. Zool., IX, 1902, p. 181 (Prov. Huamachuco; Prov. Pataz, Peru); HARTERT, Das Tierreich, 1900, p. 165.

Range: Northern Peru.

[a] *Metallura tyrianthina quitensis* GOULD: Differs from *M. t. tyrianthina* in its more brownish (less greenish) under parts and bill and wing longer.

[b] *Metallura smaragdinicollis districta* BANGS: Males. Similar to *M. s. smaragdinicollis* but rectrices wider; color of tail more purplish (less violet); under tail coverts buffy. Females.— Throat and breast paler and more uniform and under parts less spotted with green.

[c] *Metallura smaragdinicollis septentrionalis* HARTERT: Differs from *M. s. smaragdinicollis* in being lighter green above and coloration much paler below, the tips of the feathers being pale greenish bronze and smaller, thus showing more of the buffy subterminal color of the feathers.

Genus **OREONYMPHA** Gould.

Oreonympha Gould, Proc. Zool. Soc. Lond., 1869, p. 295 (Type *Oreonympha nobilis* Gould).

*Oreonympha nobilis *Gould*. BEARDED MOUNTAINEER.

Oreonympha nobilis GOULD, Proc. Zool. Soc. Lond., 1869, p. 295 (Tinta, Peru); *Id.*, Mon. Trochil., Suppl., 1880, pl. 42; WHITELY, Proc. Zool. Soc. Lond., 1874, p. 675; ELLIOT, Syn. Trochil., 1879, p. 157; TACZANOWSKI, Orn. Perou, I, 1884, p. 344; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 338.
O[reonympha] nobilis HARTERT, Das Tierreich, 1900, p. 166.

Range: Andes of southern Peru.

1: Peru (Lucre Cuzco).

Genus **OXYPOGON** Gould.

Oxypogon Gould, Proc. Zool. Soc. Lond., 1848, p. 14 (Type *Ornismya guerini* Boissonneau).

*Oxypogon lindenii (*Parzudaki*). LINDEN'S HELMET-CREST.

Ornismya lindenii PARZUDAKI, Rev. Zool., 1845, p. 253 (Merida).
Oxypogon lindeni GOULD, Mon. Trochil., III, 1855, pl. 183; ELLIOT, Syn. Trochil. 1879, p. 156; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 339.
O[xypogon] lindeni HARTERT, Das Tierreich, 1900, p. 167.

Range: Venezuela.

†10: Venezuela (near Merida).

*Oxypogon guerinii (*Boissonneau*). GUERON'S HELMET-CREST.

Ornismya guerinii BOISSONNEAU, Rev. Zool., 1840, p. 7 (Santa Fé de Bogota).
Oxypogon guerini GOULD, Mon. Trochil., III, 1849, pl. 182; ELLIOT, Syn. Trochil., 1879, p. 156; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 340; HARTERT, Das Tierreich, 1900, p. 167.

Range: Colombia.

5: Colombia (Bogota 1, "Colombia" 4).

Oxypogon stubelii[a] (*Meyer*). STUBEL'S HELMET-CREST.

Oxypogon stubelii MEYER, Zeithschr. Ges. Orn., I, 1884, p. 204 (Tolima, northern Colombia); BOUCARD, Gen. Humming Bds., 1894, p. 64; CHAPMAN, Bull. Am, Mus. N. H., XXXVI, 1917, p. 306 (Santa Isabel, alt. 12,700 ft., Colombia).

Range: Northern Colombia.

[a] *Oxypogon stubelii* MEYER: Originally described from a female which until recently was the only known specimen. The American Museum has lately received a pair taken at Santa Isabel (alt. 12,700 ft.) Colombia. Dr. Chapman (l.c.) describes the male as having a general resemblance to *O. guerini* of the eastern Andes,

***Oxypogon cyanolaemus** *Salvin and Godman.* BLUE-THROATED HELMET-CREST.

Oxypogon cyanolaemus SALVIN and GODMAN, Ibis, 1880, p. 172, pl. 4, Fig 2. (Santa Marta, Colombia); SHARPE in Gould's Mon. Trochil., Suppl., 1883, pl. 41; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 341; HARTERT, Das Tierreich, 1900, p. 167.

Range: Colombia.

1: Colombia (Santa Marta).

Genus **CHALCOSTIGMA** Reichenbach.

Chalcostigma Reichenbach, Aufz. d. Col., 1854, p. 12 (Type *Ornismya heteropogon* Boissonneau).

***Chalcostigma herrani** (*Delatt. and Bourc.*), HERRAN'S THORN-BILL.

Trochilus herrani DELATTRE and BOURCIER, Rev. Zool., 1846, p. 309 ("Pasto Nouvelle, Grenade").

Rhamphomicron herrani GOULD, Mon. Trochil., III, 1852, pl. 187; ELLIOT, Syn. Trochil., 1879, p. 159; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 345.

Chalcostigma herrani HARTERT, Das Tierreich, 1900, p. 168; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 335 (Pichincha, western Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 306 (Andes west of Popayan, Colombia).

Range: Ecuador and Colombia.

4: Ecuador ("Ecuador" 3, Pichincha 1).

***Chalcostigma heteropogon** (*Boissonneau*). BRONZE-TAILED THORN-BILL.

Ornismya heteropogon BOISSONNEAU, Rev. Zool., 1839, p. 355 (Santa Fé de Bogota).

Trochilus coruscus FRASER, Proc. Zool. Soc. Lond., 1840, p. 15.

Rhamphomicron heteropogon GOULD, Mon. Trochil., III, 1854, pl. 184; WYATT, Ibis, 1871, p. 377; ELLIOT, Syn. Trochil., 1879, p. 158; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 343.

Chalcostigma heteropogon HARTERT, Das Tierreich, 1900, p. 169; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 306 (Tacamito, eastern Andes, Colombia).

Range: Colombia and Andes of extreme western Venezuela.

6: "Colombia" 4; Venezuela (Paramo de Tama, near Colombian line) 2.

but from which it differs in having the elongated feathers of the crown more tawny; the underparts more rufescent; the outer web and shaft of outer tail feather (except at base) ochraceous buff; the inner web having the tip and a narrow stripe bordering the shaft, the same color, the remaining tail feathers have an ochraceous buff shaft streak. While the metallic throat plumes are in moult, it is apparent that those of the chin will be green, while the longer plumes will be orange purple.

Chalcostigma purpureicauda[a] *Hartert.* PURPLE-TAILED THORN-BILL.

Range: Colombia.

Chalcostigma purpureicauda HARTERT, Bull. Brit. Orn. Club, VII, 1898, p. 28 (Found in a Bogota collection); *Id.*, Ibis, 1898, p. 291; *Id.*, Das Tierreich, 1900, p. 169.

Range: Colombia.

***Chalcostigma stanleyi stanleyi** (*Bourcier*). STANLEY'S THORN-BILL.

Trochilus stanleyi BOURCIER, Compt. Rend., XXXII, 1851, p. 187 (High Andes of Pichincha and Colopoxi regions).

Rhamphomicron stanleyi GOULD, Mon. Trochil., III, 1852, pl. 185; ELLIOT, Syn. Trochil., 1879, p. 159; TACZANOWSKI, Orn. Perou, I, 1884, p. 345; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 344.

Chalcostigma stanleyi HARTERT, Das Tierreich, 1900, p. 169; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 335 (Papallacta and Pichincha, Ecuador); RHOADS, Auk, 1912, p. 148, in text (Pichincha, 13,000 ft.).

Range: Ecuador.

2: "Ecuador."

Chalcostigma stanleyi vulcani (*Gould*). GOULD'S THORN-BILL.

Rhamphomicron vulcani GOULD, Contr. Orn., 1852, p. 135 (Bolivia); *Id.*, Mon. Trochil., III, 1861, pl. 186; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 345.

Chalcostigma vulcani HARTERT, Das Tierreich, 1900, p. 170.

Range: Bolivia.

Chalcostigma olivaceum (*Lawr.*). OLIVACEOUS THORN-BILL.

Rhamphomicrum olivaceus LAWRENCE, Ann. Lyc. N. H., N. Y., VIII, 1867, p. 44 (La Paz, Bolivia); TACZANOWSKI, Orn. Perou, I, 1884, p. 347; ELLIOT, Syn. Trochil., 1879, p. 158; SHARPE in Gould's Mon. Trochil., Suppl., 1883, pl. 44; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 344.

Chalcostigma olivaceum HARTERT, Das Tierreich, 1900, p. 170.

Range: Peru.

***Chalcostigma ruficeps ruficeps** (*Gould*). RUFOUS-CAPPED THORN-BILL.

Trochilus (——?) *ruficeps* GOULD, Proc. Zool. Soc. Lond., 1846, p. 89 (Bolivia).

Rhamphomicron ruficeps GOULD, Mon. Trochil., III, 1852, pl. 188; ELLIOT, Syn. Trochil., 1879, p. 160; TACZANOWSKI, Orn. Perou, I, 1884, p. 348; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 346.

[a] *Chalcostigma purpureicauda* HARTERT: Male. Above deep green with metallic bluish gloss; tail rich purple; outer rectrix narrowly tipped with buff; middle pair rectrices metallic greenish blue towards the tips; underparts green, the feathers bordered with rusty brown and the belly almost entirely rusty brown; middle of chin and throat glittering green; under tail coverts purplish blue, broadly edged with rusty buff. The shape of the bill somewhat resembles that of *Opisthoprora*, being distinctly turned upward before the tip. The irregular shape of the glittering green spot on throat and the rusty edges on feathers of the under parts may be due to immaturity. Wing, 71; outer rectrices, 54; mid. rectrices, 40; exposed culmen, 13.5 m.

Chalcostigma ruficeps (typica) HARTERT; Das Tierreich, 1900, p. 170.

Range: Bolivia.
2: "Bolivia."

Chalcostigma ruficeps aureofastigatum[a] *Hartert.* NORTHERN RUFOUS-CAPPED THORN-BILL.

Chalcostigma ruficeps aureofastigatum HARTERT, Nov. Zool., VI, 1899, p. 74 (Loja); *Id.*, Das Tierreich, 1900, p. 171.

Range: Ecuador and northern Peru.
1: Peru (Molinopampa).

Genus **RHAMPHOMICRON** Bonaparte.

Rhamphomicron Bonaparte, Compt. Rend.,1850, p. 382 (Type *Ornismya microrhyncha* Boissonneau).

***Rhamphomicron microrhynchum** (*Boissonneau*). SMALL-BILLED THORN-BILL.

Ornismya microrhyncha BOISSONNEAU, Rev. Zool., 1839, p. 354 (Bogota).
Trochilus brachyrhynchus FRASER, Proc. Zool. Soc. Lond., 1840, p. 16.
Rhamphomicron microrhynchum TACZANOWSKI, Orn. Perou, I, 1884, p. 349; ELLIOT, Syn. Trochil., 1879, p. 160; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 342; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 335 (Papellacta and Pichincha, Ecuador).
Rhamphomicron microrhynchus GOULD, Mon. Trochil., III, 1852, pl. 189.
Rhamphomicrum microrhynchum HARTERT, Das Tierreich, 1900, p. 171; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 307 (Andes west of Popayan; Almaguer; Laguneta; El Roble; El Piñon, Colombia).

Range: Venezuela, Colombia and Ecuador.
10: "Colombia" 5; "Ecuador" 5.

Rhamphomicron dorsale *Salvin and Godman.* BLACK-BACKED THORN-BILL.

Rhamphomicron dorsale SALVIN and GODMAN, Ibis, 1880, p. 172 (Santa Marta); SHARPE in Gould's Mon. Trochil., Suppl., 1883, pl. 43; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 343.

Range: Northern Colombia.

[a] *Chalcostigma ruficeps aureofastigatum* HARTERT: Differs from *C. r. ruficeps* from Bolivia in having the tip of the gular stripe golden (not uniform green).

Genus **OPISTHOPRORA** Cabanis & Heine.

Opisthoprora Cabanis and Heine, Mus. Heine, III, 1860, p. 76 (Type *Trochilus eurypterus* Loddiges).

*Opisthoprora euryptera *Loddiges*. LODDIGES THORN-BILL.

Trochilus euryptera LODDIGES, Proc. Zool. Soc. Lond., 1832, p. 7 (Popayan).
Trochilus georginae BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 48.
Avocettinus eurypterus GOULD, Mon. Trochil., III, 1856, pl. 200; ELLIOT, Syn. Trochil., 1897, p. 161.
Opisthoprora euryptera SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 347; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 336 (Papallacta, eastern Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 307 (Almaquer, Colombia).

Range: Colombia and eastern Ecuador.

1: "Colombia."

Genus **EUSTEPHANUS** Reichenbach.

Eustephanus Reichenbach, Av. Syst., 1849, pl. 40 (Type *Trochilus galeritus* Molina).

*Eustephanus fernandensis (*King*). JUAN FERNANDEZ HUMMINGBIRD.

Trochilus fernandensis KING, Proc. Zool. Soc. Lond., 1830–31, p. 30 (Juan Fernandez).
Eustephanus fernandensis GOULD, Mon. Trochil., IV, 1854, pl. 267; *Id.*, Suppl. Trochil., 1881, pl. 26; ELLIOT, Syn. Trochil., 1879, p. 93; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 157.
Eustephanus stokesi GOULD, Mon. Trochil., IV, 1854, pl. 266.

Range: Juan Fernandez, coast of Chile.

2: Juan Fernandez Island.

*Eustephanus leyboldi *Gould*. MASSAFUERA HUMMINGBIRD.

Eustephanus leyboldi, GOULD, Ann. & Mag. N. H., (4) VI, 1870, p. 409 (Massafuera Island); *Id.*, Suppl. Trochil., 1881, pl. 25; ELLIOT, Syn. Trochil., 1879, p. 94; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 158.

Range: Coast of Chile.

1: "Chile."

*Eustephanus galeritus (*Molina*). CHILIAN FIRE CROWN.

Trochilus galeritus MOLINA, Saggio Stor. not Chile, 1782, p. 247 (Chile); FRASER, Proc. Zool. Soc. Lond., 1843, p. 114.
Eustephanus galeritus GOULD, Mon. Trochil., IV, 1852, pl. 265; ELLIOT, Syn. Trochil., 1879, p. 93; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 156; LANE, Ibis, 1897, p. 46 (Arauco, Chile).

Range: Juan Fernandez Island, Chile; West Patagonia; Tierra del Fuego.

3: Chile (Valparaiso, 1, "Chile" 2).

Eustephanus burtoni *Boucard.*[a] BOUCARD'S FIRE CROWN.

Eustephanus burtoni BOUCARD, The Humming Bd., I, 1891, p. 18 (Chile); *Id.*, Gen. Humming Bds., 1893–95, p. 58; HARTERT, Das Tierreich, 1900, p. 174.

Range: Chile?

Genus CYANOLESBIA[b] Stejneger.

***Cyanolesbia emmae** *Berlepsch.* EMMA'S SYLPH.

Cyanolesbia emmae BERLEPSCH, Journ. fur Ornith., 1892, p. 452 (Antioquia); SIMON and DELMAS, Ornis, 1901, p. 223 (La Cruces); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 309 (San Antonio; Salento; El Eden, etc.; western Andes and at least northern end of central Andes, Colombia); HARTERT, Nov. Zool., V, 1898, p. 515, in text; *Id.*, Ibis, 1897, p. 431, in text.

C[yanolesbia] cyanura emmae HARTERT, Das Tierreich, 1900, p. 176.

[a] *Eustephanus burtoni* BOUCARD: Similar to *E. galeritus*, but differs in having a brilliant golden crown and the upper parts dark shining green (not bronze green) with bluish reflections.

[b] This Genus has been reviewed by Hartert (Nov. Zool., I, 1894, p. 47) and (Nov. Zool., V, 1898, p. 514) and recently by Chapman (Bull. Am. Mus. N. H., XXXVI, 1917, p. 308). I have adopted the views of the latter writer as his conclusions were based on the study of large series of all the forms (except *berlepschi*) secured by Museum collectors and properly labelled with exact localities, etc.

The following key is adopted from that given by Chapman (l.c.) with the addition of *berlepschi:*

Key to the Species and Subspecies of *Cyanolesbia* (males).

A — Throat green
  a — Tail green ..... *C. emmae*
    (Western and central Andes, Colombia)
  b — Tail blue ..... *C. caudata*
    (Western Andes, Venezuela)
B — Throat purplish or bluish
  a — Tail green
    Throat purple ..... *C. mocoa mocoa*
      (Andes at head of Magdalene Valley, Colombia, southward in eastern Andes to Ecuador)
    Throat bluish ..... *C. Mocoa smaragdina*
      (Peru and Bolivia)
  b — Tail blue
    a^1 — Under parts green
      a^2 — Upper parts darker green
        Outer rectrices wider at tip ..... *C. berlepschi*
        (Northeastern Venezuela)
        Outer rectrices narrower at tip ..... *C. kingi kingi*
        (Eastern Andes of Colombia)
      b^2 — Upper parts lighter green ..... *C. kingi margarethae*
      (Caracas region, Venezuela)
    b^1 — Under parts coppery ..... *C. coelestis*
      (Western Andes of Colombia and Venezuela)

Cyanolesbia STEJNEGER, Auk, 1885, p. 46 (Type *Trochilus forficatus* Linnaeus).

C[yanolesbia] colombiana BOUCARD, Gen. Humming Bds., 1898, p. 98 (Bogota).

Range: Colombia (in subtropical zone of the western Andes and at least both slopes of the northern end of the central Andes) Chapman.

***Cyanolesbia caudata** *Berlepsch.* LONG-TAILED SYLPH.

Cyanolesbia caudata BERLEPSCH, Journ. fur Ornith., 1892, p. 454 (Merida); HARTERT (E. & Cl.), Nov. Zool., I, 1894, p. 48, in key; HARTERT, Nov. Zool., V, 1898, p. 515, in text.

Cyanolesbia cyanura caudata HARTERT, Das Tierreich, 1900, p. 177.

Cyanolesbia meridiana BOUCARD, Gen. Humming Bds., 1893, p. 97 (Merida).

Range: Western Andes, Venezuela.

†26: Venezuela (Merida).

***Cyanolesbia mocoa mocoa** (*Delattre and Bourcier*). GREEN-TAILED SYLPH.

Trochilus mocoa DELATTRE and BOURCIER, Rev. Zool., 1846, p. 311 (Mocoa, Colombia).

Cyanthus mocoa BONAPARTE, Consp. Av., 1851, p. 81; ELLIOT, Syn. Trochil., 1879, p. 152.

Cyanthus smaragdinicauda GOULD, Mon. Trochil., III, 1852, pl. 173.

Cyanolesbia mocoa SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 140; HARTERT (E. & Cl.), Nov. Zool., I, 1894, p. 47; HARTERT, Ibis, 1897, pp. 430–431, in text.

C[yanolesbia] cyanura mocoa HARTERT, Das Tierreich, 1900, p. 176.

Cyanolesbia kingi mocoa HARTERT, Nov. Zool., V, 1898, p. 515, in text; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 336 (Baeza, eastern Ecuador).

Cyanolesbia mocoa mocoa CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 309 (La Palma; La Candela; San Augustin, Colombia; Ambato, eastern Ecuador).

Range: Ecuador and Colombia; northeastern Peru? ("Subtropical zone of the slopes of the central and eastern Andes, arising from the upper Magdalene Valley and southward along the eastern Andes through Ecuador, probably to Peru").

4: Colombia 1; Ecuador 2; (Eio Pastaza) 1.

***Cyanolesbia mocoa smaragdina** *Gould.* GOULD'S SYLPH.

Trochilus (Lesbia) smaragdinus GOULD, Proc. Zool. Soc. Lond., 1846, p. 85 (Bolivia).

Cyanthus bolivianus GOULD, Mon. Trochil., Suppl., 1880, pl. 40.

Cyanolesbia smaragdina SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 140.

Cyanolesbia mocoa smaragdina HARTERT (E. & Cl.), Nov. Zool., I, 1894, p. 47.

C[yanolesbia] kingi smaragdina HARTERT, Nov. Zool., V, 1898, p. 516, in text.

C[yanolesbia] cyanura smaragdina HARTERT, Das Tierreich, 1900, p. 176.

Range: Bolivia and Peru.

4: Bolivia 2; Ecuador 1; Peru (Poco Tambo) 1.

***Cyanolesbia kingi kingi** *Lesson.* BLUE-TAILED SYLPH.

Trochilus kingi LESSON, Hist. Nat. Trochil., 1832, p. 107, pl. 83 ("Jamaequi"; errore=Bogota).

Trochilus cyanurus (nec Vieill.) STEPH. in Shaw's Zool., XIV, 1826, p. 339.

Lesbia gorgo REICHENBACH, Aufz. d. Colib., 1854, pp. 8, 24.

Cyanthus cyanurus GOULD, Mon. Trochil., III, 1852, pl. 172.

Cyanthus forficatus ELLIOT, Syn. Trochil., 1879, p. 151.

Cyanolesbia gorgo HARTERT, Ibis, 1897, pp. 430, 431, in text; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 137.

Cyanolesbia kingi kingi HARTERT, Nov. Zool., V, 1898, p. 516; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 307 (El Roble; above Fusugasugá; Choachi, Colombia).

Cyanolesbia cyanura (typica) HARTERT, Das Tierreich, Trochil., 1900, p. 175;

Range: Colombia (eastern Andes).

11: Colombia (Bogota 2, "Colombia" 9).

Cyanolesbia kingi margarethae *Heine.* MARGARET'S SYLPH.

Lesbia margarethae HEINE, Journ. fur Ornith., 1863, p. 212 (Caracas, Venezuela).

Cyanolesbia cyanurus var. *margarethae* SIMON, Mem. Soc. Zool. Franc., II, p. 222 (Cumbre de Valencia).

Cyanolesbia kingii margarethae HELLMAYR and SEILERN, Proc. Zool. Soc. Lond., 1911, p. 146 (Cumbre de Valencia).

Cyanolesbia gorgo margarethae HARTERT, Ibis, 1897, in text; HARTERT (E. & Cl.) Nov. Zool., I, 1884, p. 48.

C[yanolesbia] cyanura margarethae HARTERT, Das Tierreich, 1900, p. 176.

Range: Venezuela (Caracas region).

***Cyanolesbia coelestis** (*Gould*). HEAVENLY SYLPH.

Cyanthus coelestis GOULD, Intro. Trochil., 1861, p. 102 (Ecuador).

Cyanthus cyanthus SCLATER, Proc. Zool. Soc. Lond., 1869, p. 70.

Cyanthus cyanurus coelestis BERLEPSCH and TACZANOWSKI, Proc. Zool. Soc. Lond., 1883, p. 567; *Id.*, 1884, p. 305.

Cyanolesbia coelestis SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 139; HARTERT (E. & Cl.), Nov. Zool., I, 1894, p. 47; HARTERT, Nov. Zool., V, 1898, p. 515, in text; *Id.*, Das Tierreich, 1900, p. 177; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 337 (Gualea; Milligalli; western Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 309 (Novita Trail; Gallera; Ricaurte, Colombia).

Cyanolesbia kingi subsp. HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1187 (Tatama Mountain, western Colombia).[a]

Range: Western Colombia and western Ecuador.

6: Ecuador (Gualea 2; "Ecuador" 4).

[a] Hellmayr (l.c.) states that a specimen from Tatama Mountain, western Colombia is somewhat intermediate between *kingi* and *coelestis*, but apparently differs from either. He suggests that more material from that locality will probably show birds from that region to constitute a distinct race.

Cyanolesbia berlepschi[a] *Hartert.* BERLEPSCH'S SYLPH.

Cyanolesbia berlepschi HARTERT, Bull. Brit., Orn. Club., VIII, 1898, p. 16 (Cumana, Venezuela); *Id.*, Ibis, 1899, p. 127 (Cumana, Caripe, Venezuela); *Id.*, Nov. Zool., V, 1898, p. 514; *Id.*, Das Tierreich, 1900, p. 177.

Range: Northeastern Venezuela (Cumana region).

Genus **NEOLESBIA** Salvin.

Neolesbia Salvin, Cat. Bds. Brit. Mus., XVI, 1892, p. 145 (Type *Cyanolesbia nehrkorni* Berlepsch).

Neolesbia nehrkorni *Berlepsch.* NEHRKORN'S BLUE-TAILED SYLPH.

Cyanolesbia nehrkorni BERLEPSCH, Journ. fur Ornith., 1887, p. 326 (Bogota); *Id.*, Zeitschr. Ges. Orn., IV, 1887, p. 178, pl. 3, Fig. 1.

Neolesbia nehrkorni SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 145; BOUCARD, Gen. Humming Bds., 1893–95, p. 99.

Range: Colombia.

Genus **POLYONYMUS** Heine.

Polyonymus Heine, Journ. fur Ornith., 1863, p. 206 (Type *Trochilus caroli* Bourcier).

***Polyonymus caroli** (*Bourcier*). CHARLES'S COMET.

Trochilus caroli BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 48 (Peru).

Cometes caroli GOULD, Mon. Trochil., III, 1861, pl. 177.

Sappho caroli ELLIOT, Syn. Trochil., 1879, p. 155; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 144.

Polyonymus caroli SIMON, Nov. Zool., IX, 1902, p. 182 (Prov. Otuzco; Prov. Huamachuco, Peru); HARTERT, Das Tierreich, 1900, p. 179.

Polynomus caroli BRABOURNE and CHUBB, Bds. S. Am., I, 1912, p. 140, No. 1382.

Range: Peru.

1: Peru (Macate).

Polyonymus griseiventris *Tacz.* GREY-BELLIED COMET.

Cyanthus griseiventris TACZANOWSKI, Proc. Zool. Soc. Lond., 1883, p. 72 (Paucal, Peru); *Id.*, Orn. Perou, I, 1884, p. 334.

Cyanolesbia griseiventris SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 137, footnote; *Id.*, Nov. Zool., II, 1895, p. 15, pl. II, Fig. 1 (Cayabamba); HARTERT, Nov. Zool., I, 1894, p. 47, in key.

[a] *Cyanolesbia berlepschi* HARTERT: Male. Very similar to *C. kingi kingi*, but differs from it and also from other allies in having a longer tail with the rectrices wider (long outer feathers 10 mm. wide towards the tip) and becoming wider (instead of narrower) where they pass beyond the next pair; blue gular spot larger than in *kingi;* middle rectrices purplish blue on exposed portions with only a green tinge at the tips. The female differs from all known forms of this Genus in having the breast and entire abdomen white.

Polyonymus griseiventris SIMON, Cat. Trochil., 1897, p. 34; HARTERT, Nov. Zool., V, 1898, p. 514, in text; *Id.*, Das Tierreich, 1900, p. 179.

Range: Northern Peru.

Genus **LESBIA** Lesson.

Lesbia (part) Lesson, Gen. Trochil., 1832, p. XVII (Type *Ornismya sappho* Lesson = *Trochils sparganurus* Shaw).

*Lesbia sparganura (*Shaw*). SAPPHO COMET.

Trochilus sparganurus SHAW, Gen. Zool., VIII, 1811, p. 39 (Peru).

Cometes sparganurus BONAPARTE, Compt. Av., I, 1850, p. 81; GOULD, Mon. Trochil., III, 1858, pl. 174.

Sappho sparganura REICHENBACH, Aufz. d. Colib., 1854, p. 9; ELLIOT, Syn. Trochil., 1879, p. 154; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 143.

Lesbia sparganura LONNBERG, Ibis, 1903, p. 415 (Quinto, Argentine); HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 223 (Tucuman; Mendoza; Argentine); HARTERT, Das Tierreich, 1900, p. 179.

Range: Eastern Bolivia, northwestern Argentine, western Paraguay and northern Chile.

3: Bolivia 1; Paraguay 1; Argentine (Viejo, Tucuman) 1.

*Lesbia phaon (*Gould*). PHAON COMET.

Cometes phaon GOULD, Proc. Zool. Soc. Lond., 1847, p. 31 ("Peru"); *Id.*, Mon. Trochil., III, 1853, pl. 175.

Sappho phaon REICHENBACH, Aufz. d. Colib., 1854, p. 9; ELLIOT, Syn. Trochil., 1879, p. 154; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 144.

Lesbia phaon BONAPARTE, Rev. Zool., 1854, p. 252; HARTERT, Das Tierreich, 1900, p. 180.

Range: Andes of Bolivia.

2: Bolivia (La Paz).

Genus **PSALIDOPRYMNA** Cabanis and Heine.

Psalidoprymna Cabanis and Heine, Mus. Heine, III, 1860, p. 52–70 (Type *Trochilus gouldi* Loddiges).

Psalidoprymna victoriae victoriae (*Bourcier and mulsant*). LARGE TRAIN-BEARER.

Trochilus victoriae BOURCIER and MULSANT, Ann. Soc. Phys. Agric. Lyon, IX, 1846, p. 312 (Colombia).

Lesbia amaryllis GOULD, Mon. Trochil., III, 1854, pl. 170; ELLIOT, Syn. Trochil., 1879, p. 148.

Lesbia victoriae REICHENBACH, Aufz. d. Colib., 1854, p. 8; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 146.

P[salidoprymna] victoriae (typica) HARTERT, Das Tierreich, 1900, p. 181.

Psalidoprymna victoriae victoriae HARTERT, Nov. Zool., VI, 1899, p. 74, in text; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 310 (Chipaque, Colombia).

Range: Colombia.

7: "Colombia."

***Psalidoprymna victoriae aequatorialis**[a] (*Boucard*). BOUCARD'S TRAIN-BEARER.

Lesbia aequatorialis BOUCARD, The Humming Bd., III, 1893, p. 6 (Rio Napo, Ecuador); *Id.*, Gen Humming Bds., 1893–95, p. 95.

Psalidoprymna victoriae aequatorialis HARTERT, Nov. Zool., VI, 1899, p. 74; *Id.*, Das Tierreich, 1900, p. 181; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 337 (Quito; Chillo Valley; Mojanda; Jambillo; road to Papallacta; near Julcan; Padregal).

Range: Ecuador.

3: Ecuador (Napo 1, "Ecuador" 2).

Psalidoprymna victoriae juliae[b] (*Hartert*). JULIA'S TRAIN-BEARER.

Psalidoprymna juliae HARTERT, Nov. Zool., VI, 1899, p. 75 (Cajabamba); *Id.*, Das Tierreich, 1900, p. 181.

Lesbia juliae (Nom. Nud.) BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1896, p. 323.

Range: Northern Peru.

***Psalidoprymna eucharis** (*Bourcier and mulsant*). BLACK-TAILED TRAIN-BEARER.

Trochilus eucharis BOURCIER, Rev. Zool., 1848, p. 274 (Colombia).

Lesbia eucharis REICHENBACH, Aufz. d. Colib., 1854, p. 8; GOULD, Mon. Trochil., III, 1860, pl. 171; ELLIOT, Syn. Trochil., 1879, p. 147; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 147; HARTERT, Das Tierreich, 1900, p. 182.

Range: Western Colombia.

3: "Colombia."

***Psalidoprymna pallidiventris**[c] *Simon*. SIMON'S TRAIN-BEARER.

Psalidoprymna pallidiventris SIMON, Nov. Zool., IX, 1902, p. 182 (Prov. Cojabamba, Peru).

[a] *Psalidoprymna victoriae aequatorialis* (BOUCARD): Very close to *P. v. victoriae*. The bill averages heavier; tail slightly longer and belly somewhat greener.

[b] *Psalidoprymna victoriae juliae* (HARTERT): Similar to *P. v. victoriae*, but bill shorter (about 12 mm.); tail decidedly shorter, the outer rectrices between 112 and 120 mm. long; grayish buff of outer edges of outer rectrix more extended (about two thirds the length of the feather).

[c] *Psalidoprymna pallidiventris* SIMON: General appearance of *P. gouldi* and *P. z. gracilis*, but differs in having the abdomen decidedly more whitish in the middle and speckled with green on the sides (instead of tawny rufous); under tail coverts with disks of greenish bronze bordered with white with a tinge of pale buff (not brilliant green broadly edged with buff as in *gouldi* or brilliant green more extensively edged with rufous buff); lateral rectrices (upper surface) dull black, except at the tip, which shows a small spot of green or bronze green (beneath) blackish blue (not with greenish luster above and blackish green below as in the other species); rest of rectrices brilliant green towards the ends and blackish green toward the bases. Bill about the same as *gouldi*, longer than in *gracilis*.

Range: Peru.

4: Peru (Hda. Llagueda, northeastern Otuzco, 2; Rio Utcubamba 1, Macate 1).

Psalidoprymna berlepschi[a] *Hellmayr and Seilern.* BERLEPSCH'S TRAIN-BEARER.

Psalidoprymna berlepschi HELLMAYR and SEILERN, Verh. Orn. Gesell. Bayern, XII, 1915, No. 3, p. 210 (Anta Cuzco, Marcapata, southeastern Peru, Alt. 3500 m.).

Range: Southeastern Peru.

***Psalidoprymna nuna nuna** (*Lesson*). LESSON'S TRAIN-BEARER.

Ornismya nuna LESSON, Hist. Nat. Colib. Suppl., 1831, p. 169, pl. 35 (Peru).
Lesbia bifurcata REICHENBACH, Aufz. d. Col., 1855, p. 8.
Lesbia nuna GOULD, Mon. Trochil., III, 1860, pl. 169; WHITELY, Proc. Zool. Soc. Lond., 1874, p. 675; ELLIOT, Syn. Trochil., 1879, p. 147; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 148; HARTERT, Das Tierreich, 1900, p. 182.

Range: Peru and northwestern Bolivia (Sorata, etc.).

1: Peru (Paucaitambo).

***Psalidoprymna nuna boliviana** (*Boucard*).[b] BOLIVIAN TRAIN-BEARER.

Lesbia boliviana BOUCARD, The Humming Bd., I, 1891, p. 43 (Bolivia); *Id.*, Gen. Humming Bds., 1893–95, p. 82; HARTERT, Nov. Zool., VI, 1899, p. 74, in text.

Range: Bolivia.

1: "Bolivia."

***Psalidoprymna gouldii gouldii** (*Loddiges*). GOULD'S TRAIN-BEARER.

Trochilus gouldii LODDIGES, Proc. Zool. Soc. Lond., 1832, p. 7 (Popayan).
Lesbia gouldi GOULD, Mon. Trochil., III, 1856, pl. 167; ELLIOT, Syn. Trochil., 1879, p. 146, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 149, part.
Psalidoprymna gouldi (typica) HARTERT, Das Tierreich, 1900, p. 183.
Psalidoprymna gouldi gouldi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917. p. 310 (Sibate, from the Bogota Savanna).

Range: Colombia.

6: "Colombia."

[a] *Psalidoprymna berlepschi* HELLMAYR and SEILERN: Nearest to *P. v. juliae* from northern Peru, but distinguished by its much longer bill (which is also thicker and more curved) and longer wings; the lustrous scaly shield is grass green (not yellowish or golden green); abdomen and under tail coverts more extensively rust colored (in this last character approaching *P. v. aequatorialis* from Ecuador). Wing, 63½; outer tail feather, 123 to 128; bill, 15 to 16½ mm.

[b] *Psalidoprymna nuna boliviana* (BOUCARD): Supposed to differ in its more golden plumage; tail longer?

***Psalidoprymna gouldii gracilis** (*Gould*).[a] GRACEFUL TRAIN-BEARER.

Trochilus (*Lesbia*) *gracilis* GOULD, Proc. Zool. Soc. Lond., 1846, p. 86 ("Peru" = Ecuador).

Lesbia gouldi gracilis BERLEPSCH and HARTERT, Proc. Zool. Soc. Lond., 1884, p. 305 (Cechce, western Ecuador); HARTERT (E. & Cl.), Nov. Zool., I, 1894, p. 48.

Psalidoprymna gouldi gracilis HARTERT, Das Tierreich, 1900, p. 183; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 337 (Papallacta; Pichincha; Corazon, Ecuador).

Range: Ecuador.

1: "Peru"?

Psalidoprymna gouldii chlorura[b] (*Gould*). PERUVIAN TRAIN-BEARER.

Lesbia chlorura GOULD, Proc. Zool. Soc. Lond., 1871, p. 504 (Peru?).

Psalidoprymna chlorura HARTERT, Nov. Zool., VI, 1899, p. 75, in text.

Psalidoprymna gouldi chlorura HARTERT, Das Tierreich, 1900, p. 183.

Range: Northern Peru.

Genus **ZODALIA** Mulsant & Verreaux.

Zodalia Mulsant and Verreaux, Hist. Nat. Ois.-Mouches, III, 1876–77, p. 281 (Type *Lesbia ortoni* Lawrence).

Zodalia glyceria *Gould*. PURPLE-TAILED COMET.

Cometes ? *glyceria* GOULD, Mon. Trochil., III, 1858, pl. 176 (Popayan).

Cometes mossiae (nom. nud.) GOULD, Rept. Brit. Assn., 1853, p. 68.

Zodalia glyceria ELLIOT, Syn. Trochil., 1879, p. 150; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 141; HARTERT, Das Tierreich, 1900, p. 183.

Range: Colombia.

Zodalia ortoni (*Lawr.*). ORTON'S COMET.

Lesbia ortoni LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., IX, 1870, p. 269 (Quito Valley).

Zodalia ortoni ELLIOT, Syn. Trochil., 1879, p. 149; GOULD, Mon. Trochil., Suppl. 1880, pl. 38; HARTERT, Das Tierreich, 1900, p. 184.

Range: Ecuador.

[a] *Psalidoprymna gouldii gracilis* (GOULD): Differs from *P. g. gouldii* in being smaller and under tail coverts less green, being dull buff, with green spot in the middle.

[b] *Psalidoprymna gouldii chlorura* (GOULD): Differs from *P. g. gracilis* in having the bill and tail somewhat longer and general plumage more golden. Wing, 2 inches; bill, $\frac{9}{16}$ inch (original measurements given by Gould, l.c.).

NOTE.— I have not seen specimens of this bird, C. B. C.

Zodalia thaumasta *Oberholser.*[a] CHILLO VALLEY COMET.

Zodalia thaumasta OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 338 (Illalo, Valley of Chillo, Ecuador).

Range: Ecuador.

Genus **AUGASTES** Gould.

Augastes Gould, Mon. Trochil., IV, sub. pl. 221, 1849 (Type *Trochilus scutatus* Temminck).

***Augastes scutatus** *Temminck.* NATTERER'S VISOR-BEARER.

Trochilus scutatus TEMMINCK, Pl. Col., 1824, pl. 299, Fig. 3 ("Brasil").[b]
Trochilus superbus (nec. Shaw, 1802) VIEILLOT, Tabl. Enc. Meth., II, 1822, p. 561.
Ornismya nattereri LESSON, Hist. Nat. Ois.-Mouches, pp. 37, 75, pl. 16.
Augastes superbus ELLIOT, Syn. Trochil., 1879, p. 171; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 35; HARTERT, Das Tierreich, 1900, p. 184.

Range: Southeastern Brazil.
1: "Brazil."

***Augastes lumachellus** (*Lesson*). HOODED VISOR-BEARER.

Ornismya lumachellus LESSON, Rev. Zool., 1838, p. 315 (Bahia).
Augastes lumachellus GOULD, Mon. Trochil., IV, 1849, pl. 222; ELLIOT, Syn. Trochil., 1879, p. 170; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 36; HARTERT, Das Tierreich, p. 185.

Range: Southeastern Brazil.
1: "Brazil."

Genus **SCHISTES** Gould.

Schistes Gould in Jardine's Contr. Orn., 1851, p. 140 (Type *S. albigularis* Gould).

***Schistes geoffroyi** (*Bourcier and Mulsant*). GEOFFROY'S WEDGE-BILL.

Trochilus geoffroyi BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, VI, 1843, p. 37, pl. 3 ("La Valée de Cauca pres de Carthagene").

[a] *Zodalia thaumasta* OBERHOLSER: Similar to *Z. glyceria*, but with no whitish on any of the tail feathers; the glittering throat patch grass green (instead of olive); bill longer; outer tail feather (in male) with black shaft and the outer web deep brown.

[b] For dates of publication of Temminck's "Planches Coloriees," *cf.* Sherborn, Ibis, 1898, pp. 485–88.

Schistes geoffroyi GOULD, Mon. Trochil., IV, 1853, pl. 218; ELLIOT, Syn. Trochil., 1879, p. 173; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 34; HARTERT, Das Tierreich, 1900, p. 185; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 310 (El Roble, Colombia).[a]

Range: Colombia, Ecuador and Bolivia.

4: "Colombia."

***Schistes albogularis** *Gould.* WHITE-THROATED WEDGE-BILL.

Schistes albogularis GOULD, Contr. Orn., 1851, p. 140 (Pichincha, Ecuador); *Id.*, Mon. Trochil., IV, 1853, pl. 220; SCLATER, Proc. Zool. Soc. Lond., 1860, p. 70; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 34; HARTERT, Das Tierreich, 1900, p. 185; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 339, crit. (Milligalli, western Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXIV, p. 310 (Las Lomitas; San Antonio and Miraflores).

Schistes personatus GOULD, Proc. Zool. Soc. Lond., 1860, p. 311; *Id.* Mon. Trochil. IV, 1853, pl. 219; ELLIOT, Syn. Trochil., 1879, p. 173.

Range: Colombia and Ecuador (probably from central Andes, westward).

1: Colombia?

Genus **HELIOTHRYX**[b] Boie.

Heliothryx Boie, Isis, 1831, p. 547 (Type *Trochilus auritus* Gmelin).

***Heliothryx aurita aurita** (*Gmelin*). BLACK-EARED FAIRY.

Trochilus auritus GMELIN, Syst. Nat., I, 1788, p. 493 ("Cayenna").

Ornismya aurita LESSON, Hist. Nat. Ois.-Mouches, 1829, pp. 19, 63, pls. 14, 11.

Heliothrix auritus BOIE, Isis, 1831, p. 547; GOULD, Mon. Trochil., 1853, pl. 213; ELLIOT, Syn. Trochil., 1879, p. 174; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 30; HARTERT, Das Tierreich, 1900, p. 186; BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 88; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 339 (Archidona, Rio Napo, Ecuador); BERLEPSCH, Nov. Zool., XV, 1908, p. 265 (Cayenne); CHUBB, Bds. Brit. Guiana, 1916, p. 420.

Heliothrix colombianus BOUCARD, Gen. Humming Bds., 1894, p. 313 (Colombia and Ecuador).

Range: Guiana, Venezuela, Colombia, extreme northern Brazil, Ecuador and northern Peru.

6: British Guiana 2; northern Brazil (base of Serra da Lua, near Boa Vista, Rio Branco) 1; Colombia 3.

[a] "All the Colombia skins I have seen of this species appear to be from the Bogota region where alone we found it. In the Cauca Valley we collected only the representative species, *S. albigularis*, a fact which indicates that the type locality given for *geoffroyi* is incorrect." (Chapman, l.c.).

[b] — Key to the Species and Subspecies of *Heliothryx.*

A — Crown green
- a — Chin and throat white..... *H. aurita aurita*
- b — Chin green; throat white..... *H. aurita auriculata*
- c — Chin and throat green..... *H. aurita phainolaema*

B — Crown violet blue..... *H. barroti*

***Heliothryx aurita auriculata** (*Nordmann*). GREEN-CHINNED FAIRY.

Trochilus auriculatus NORDMANN, Erman Reise, 1835, p. 5, pl. 2 (Brazil).

Heliothrix poucheti BONAPARTE, Consp. Av., I, 1850, p. 69.

Heliothrix auriculatus GOULD, Mon. Trochil., IV, 1853, pl. 214; ELLIOT, Syn. Trochil., 1879, p. 175; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 32, part; BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 28 (Chunchamayo, central Peru); SNETHLAGE, Boll. Mus. Goeldi (Cat. Av. Amazon) VIII, 1914, p. 203.

Heliothrix auriculata HARTERT, Das Tierreich, 1900, p. 186.

Heliothrix auritus auriculatus HELLMAYR, Nov. Zool., XVII, 1900, p. 377 (Calama, Rio Madeira).

(?)*Heliothrix aequatorialis* BOUCARD, Gen. Humming Bds., 1895, p. 314 ("Ecuador").[a]

Range: Southern and western Brazil (Rio Madeira, Calama), and eastern and central Peru (Chunchamayo).

2: Brazil.

Heliothrix aurita phainolaema (*Gould*). GREEN-BREASTED FAIRY.

Heliothrix phainolaema GOULD, Proc. Zool. Soc. Lond., 1855, p. 87 (Para).

Heliothrix auriculatus phainolaema HELLMAYR, Nov. Zool., XII, 1905, p. 297; *Id.*, XIII, 1906, p. 378 (Para).

Range: Northeastern Brazil.

***Heliothryx barroti** (*Bourcier and Mulsant*). BARROT'S FAIRY.

Ornismya barroti BOURCIER and MULSANT, Ann. Soc. Agric. Lyon, VI, 1843, p. 48, pl. 4 (Cartegena, Colombia).

Heliothrix barroti GOULD, Mon. Trochil., IV, 1853, pl. 217; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 32; HARTERT (E. & Cl.) Nov. Zool., I, 1894, p. 1 (Nanegal, western Ecuador); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 339, crit. (Santo Domingo, western Ecuador); FERRY, Field Mus. Pub. No. 146, Orn. Ser. I, 1910, p. 263 (Guayabo, Costa Rica); HELLMAYR, Proc. Zool. Soc. Lond., 1911, p. 1186 (Noanama and Novita).

Heliothrix pupureiceps GOULD, Proc. Zool. Soc. Lond., 1855, p. 87 (Popayan, Colombia); *Id.*, Mon. Trochil., IV, 1861, pl. 216.

Heliothrix violifrons GOULD, Introd. Trochil., 1861, p. 122 ("Cartagena" = Veragua, Panama); BOUCARD, Gen. Humming Bds., 1893–95, p. 314 (Veragua, Panama).

Heliothrix barroti alincius OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 339, in text (Chocum, Guatemala).

Heliothryx barroti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, 1911, p. 562; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 310, crit. (Choco; Juntas de Tamaná; Noanamá; San José; Barbacoas, Colombia).

Range: Western and northwestern Colombia and southward to western Ecuador and from Panama north to Guatemala.

7: Nicaragua (San Emilis) 2; Costa Rica (Guayabo) 1; Panama (Chiriqui 2, Colon 1, Veragua 1).

[a] *Cf.* Hellmayr, Nov. Zool., XIII, 1906, p. 378, in text.

Genus **HELIACTIN** Boie.

Heliactin Boie, Isis, 1831, p. 546, part; (Type *T. cornutus* Wied); Bonaparte, Consp. Av., 1850, p. 85.

*Heliactin bilophum (*Temminck*). SUN GEM.

Trochilus bilophus TEMMINCK, Pl. Col., IV, 1820, pl. 18, Fig. 3 ("Bresil").

Trochilus cornutus WIED, Reise N. Bras., II, 1821, p. 190.

Heliactin cornuta BOIE, Isis, 1831, p. 546; GOULD, Mon. Trochil., IV, 1856, pl. 212; ELLIOT, Syn. Trochil., 1879, p. 116; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 433.

Heliactin bilophum HARTERT, Das Tierreich, 1900, p. 187; HELLMAYR, Nov. Zool., XV, 1908, p. 77, crit. (Goyaz).

Range: Brazil.

2: "Brazil."

Genus **THAUMASTURA** Bonaparte.

Thaumastura Bonaparte, Consp. Av., I, 1850, p. 85 (Type *Ornismya cora* Lesson).

*Thaumastura cora cora (*Lesson*). CORA'S SHEAR-TAIL.

Ornismya cora LESSON in Voy. Coquille, I, 1826–28, p. 682, pl. 31, Fig. 4 (Callas, Peru).

Thaumastura cora BONAPARTE, Consp. Av., I, 1850, p. 85; GOULD, Mon. Trochil., III, 1857, pl. 153; ELLIOT, Syn. Trochil., 1879, p. 123; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 418; HARTERT, Das Tierreich, 1900, p. 188 (?); SIMON, Nov. Zool., IX, 1902, p. 183 (Prov. Huamachuco).

Range: Western Peru.

1: Peru (Callao*).

*Thaumastura cora montana[a] *Cory*. OTUZCO SHEAR-TAIL.

Thaumastura cora montana CORY, Field Mus. Nat. Hist. Pub., No. 167, Orn. Ser. I, No. 7, 1913, p. 286 (Hda. Llagueda, about 20 miles northeast of Otuzco, alt. 7000 ft., Peru).

Range: Andes of Peru.

1: Peru (Hda. Llagueda, northeastern Otuzco), the type.

Genus **RHODOPIS** Reichenbach.

Rhodopis Reichenbach, Aufz. d. Col., (extra heft) I, 1854, p. 12 (Type *Rhodopis vespera* Reich. = *O. vesper* Lesson).

*Rhodopis vesper (*Lesson*). EVENING HUMMINGBIRD.

Ornismya vesper LESSON, Hist. Nat. Ois.-Mouches, 1829, pp. 15, 85, pl. 19 ("Cora de Perou").

[a] *Thaumastura cora montana* CORY: Similar to *T. cora cora*, but having the upper parts clear green and not golden green; sides of throat showing a tinge of purple (not blue as in *T. cora*); feathers on the sides of lower breast and flanks largely with green centers; tail similar to that of *T. cora*, but the dark marking blacker and the black tip showing a subterminal faint tinge of green. Wing, 40 mm.; tail, 95; bill, 13.

Lucifer vesper BONAPARTE, Rev. Zool., 1854, p. 257.
Calliphlox (Rhodopis) vespera REICHENBACH, Handb. Orn. Troch. Enum., 1855, p. 10, pl. 841, Figs. 4984–5.
Rhodopis vesper GOULD, Mon. Trochil., III, 1856, pl. 154; ELLIOT, Syn. Trochil., 1879, p. 115; TACZANOWSKI, Orn. Perou, 1884, p. 316; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 379; HARTERT, Das Tierreich, 1900, p. 189.

Range: Western Peru.

1: Peru (Iscay).

Rhodopis atacamensis (*Leybold*). ATACAMA HUMMINGBIRD.

Trochilus atacamensis LEYBOLD, Ann. Univ. de Santiago, Chile, XXXII, 1869, p. 43 (Atacama, Chile).
Rhodopis atacamensis MARTIN'S Journ. fur Ornith., 1875, p. 442; ELLIOT, Syn. Trochil., 1879, p. 116; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 380; HARTERT, Das Tierreich, 1900, p. 190.

Range: Northern Chile and southern Peru.

Genus **HELIOMASTER** Bonaparte.

Heliomaster Bonaparte, Compt. Rend., XXX, 1850, p. 382 (Type *Ornismya angelae* Lesson = *Trochilus furcifer* Shaw).

***Heliomaster furcifer** (*Shaw*). ANGELA STAR-THROAT.

Trochilus furcifer SHAW, Gen. Zool., VIII, 1811, p. 280 (Paraguay).
Trochilus caudacutus VIEILLOT, Nouv. Dict., ed. 2, VII, 1817, p. 347.
Heliomaster angeliae GOULD, Mon. Trochil., IV, 1853, pl. 263.
Ornismya angelae LESSON, Ill. Zool., 1833, pl. 45, 46 and text.
Trochilus regis SCHREIBER'S, Isis, 1833, p. 534.
Heliomaster furcifer ELLIOT, Syn. Trochil., 1879, p. 86; SALVIN, Cat. Bds.Brit. Mus., XVI, 1892, p. 119; HARTERT, Das Tierreich, 1900, p. 190; HELLMAYR Nov. Zool., XV, 1908, p. 77 (Leopoldina, Goyaz, Brazil); HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 223 (Tucuman; Mendoza, Argentine); GRANT, Ibis, 1911, p. 317 (Puerto Asir, Paraguay).

Range: Northern Argentine; Paraguay and Brazil north to Goyaz.

2: "Paraguay."

***Heliomaster squamosus** (*Temminck*). STRIPE-BREASTED STAR-THROAT.

Trochilus squamosus TEMMINCK, Pl. Col., 1823, pl. 203, Fig. 1 (Brazil).
Trochilus mesoleucus TEMMINCK, Pl. Col., 1824, pl. 317, Fig. 1.
Heliomaster mesoleucus BONAPARTE, Consp. Av., I, 1850, p. 70; GOULD, Mon. Trochil., IV, 1853, pl. 262.
Lepidolarynx GOULD, Introd. Trochil., 1854, p. 140; ELLIOT, Syn. Trochil., 1879, p. 85; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 120.
Heliomaster squamosus CABANIS and HEINE, Mus. Heine, III, p. 53; HARTERT, Das Tierreich, 1900, p. 191.

Range: Southeastern Brazil.

5: Brazil (Rio do Peixe, Bahia 2, "Bahia" 2).

Genus **ANTHOSCENUS** Richmond.

Floricola (not of Gistel) Elliot, Classif. & Syn. Trochil., 1879, p. 82 (Type *Trochilus longirostris* Vieillot).[a]

Anthoscenus Richmond, Proc. Biol. Soc. Wash., XV, 1902, p. 85 (Type *Trochilus longirostris* Vieillot).

*Anthoscenus longirostris longirostris (*Vieillot*). LONG-BILLED STAR-THROAT.

Trochilus longirostris VIEILLOT, Ois. Dores, I, livr. 10, 1901, p. 107, pl. 59 (Trinidad).

Trochilus superbus SHAW, Nat. Misc., XIII, 1802, p. 517 (southern parts of America); TEMMINCK, Pl. Col., IV, 1824, pl. 299, Fig. 1.

Heliomaster longirostris GOULD, Mon. Trochil., IV, 1853, pl. 259; SALVIN, Ibis, 1885, p. 435 (British Guiana); TAYLOR, Ibis, 1864, p. 92 (Trinidad).

Floricola longirostris ELLIOT, Syn. Trochil., 1879, p. 83, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 229, part; SALVIN and GODMAN, Biol. Centr. Am. Av., II, 1892, p. 304, part.

F[loricola] superba (typica) HARTERT, Das Tierreich, 1900, p. 192.

Anthoscenus superbus CHUBB, Bds. Brit. Guiana, I, 1916, p. 422.

Anthoscenus longirostris longirostris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 346.

Heliomaster stuartae LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VII, 1860, p. 108 (Bogota).[b]

Floricola superba stewartae HARTERT, Das Tierreich, 1900, p. 192 (Colombia).

Anthoscenus longirostris stewartae CHAPMAN, Bull. Am. Mus. N. H., XXXVI, p. 311 (Colombia).

Range: Trinidad I. and the Guianas, and Lower Amazon Valley in Brazil; Venezuela; Colombia; Panama and Costa Rica.

10: Trinidad 2; Panama (Veragua 1, Chiriqui 1); Costa Rica (Terraba 1, Boruca 1); "Colombia" 4.

*Anthoscenus longirostris pallidiceps[c] (*Gould*). PALE-CROWNED STAR-THROAT.

Heliomaster pallidiceps GOULD, Introd. Trochil., 1861, p. 139 (Jalapa, Vera Cruz, Mexico).

Floricola longirostris pallidiceps HARTERT (E. & Cl.) Nov. Zool., I, 1894, p. 62 (crit.).

Floricola superba pallidiceps HARTERT, Das Tierreich, 1900, p. 192.

[a] Preoccupied by *Floricola* GISTEL, Naturgesch, 1848, p. 11; *cf.* Richmond, Proc. Biol. Soc. Wash., XV, 1902, p. 85.

[b] I can find no constant characters by which birds from Colombia may be separated from those from Guiana and Trinidad. Nevertheless it is possible that a larger series may prove the Colombian bird to represent a slightly different local race (*cf.* Chapman, l.c.).

[c] *Anthoscenus longirostris pallidiceps* (GOULD): Differs in having the crown clearer and paler green (less bluish) and throat more rosy and less of a violet tinge.

Anthoscenus superbus pallidiceps DEARBORN, Field Mus. Pub., No. 125, 1907, p. 99 (Guatemala).

Anthoscenus longirostris pallidiceps RIDGWAY, Bull. U. S. Nat. Mus., No. 50, 1911, p. 349.

Range: Southeastern Mexico (Vera Cruz, Guerrero, etc.), Guatemala, Salvador and Nicaragua.

10: Guatemala (Patalul 7, Mazatinango 3).

Anthoscenus longirostris albicrissa (*Gould*). WHITE-VENTED STAR-THROAT.

Heliomaster albicrissa GOULD, Proc. Zool. Soc. Lond., 1871, p. 504 (Citado, Ecuador).

Floricola albicrissa ELLIOT, Syn. Trochil., 1879, p. 83; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 231; HARTERT, Das Tierreich, 1900, p. 192; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 340 (Nanegal, western Ecuador).

Floricola long[irostris] albicrissa SIMON, Cat. Trochil., 1897, p. 37.

Anthoscenus albicrissa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 345, in key.

Range: Ecuador.

***Anthoscenus constantii constantii** (*Delattre*). CONSTANT'S STAR-THROAT.

Ornismya constantii DELATTRE, Echo du Monde Savant, Ser. 2, VII, 1843, p. 1069, in text (Guatemala).

Heliomaster constanti GOULD, Mon. Trochil., IV., 1853, pl. 260.

Floricola constanti ELLIOT, Syn. Trochil., 1879, p. 84; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 231, part.

Floricola constanti (typica) HARTERT, Das Tierreich, 1900, p. 193.

Floricola constanti constanti CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 545.

Anthoscenus constanti constanti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 350.

Range: Guatemala to Costa Rica.

5: Costa Rica (Orosi 2, Sanose 3).

***Anthoscenus constantii leocadiae**[a] (*Bourcier*). PINE STAR-THROAT.

Trochilus leocadiae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. d'Agric. Lyon, IV, 1852, p. 141 (Mexico).

Floricola leocadiae ELLIOT, Syn. Trochil., 1879, p. 84.

Floricola leocardiae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 232.

Anthoscenus constantii leocadiae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 352.

Range: Southern and western Mexico.

3: Mexico (Iguala, Guerrero).

[a] *Anthoscenus constantii leocadiae* (BOURCIER): General coloration paler, especially on under parts; metallic red of throat much more restricted (confined to lower throat); chin and upper throat dark grayish, instead of blackish.

Genus **CALOTHORAX** Gray.

Calothorax Gray, List. Gen. Bds., 1840, p. 13 (Type *Cyanthus lucifer* Swainson).

*Calothorax lucifer (*Swains.*). LUCIFER HUMMINGBIRD.

Cyanthus lucifer SWAINSON, Philos. Mag. N. S., I, 1827, p. 442 (Temascaltepec, Mexico).

Calothorax lucifer SCLATER, Proc. Zool. Soc. Lond., 1856, p. 288; ELLIOT, Syn. Trochil., 1879, p. 118; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 300; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 652.

Calothorax cyanopogon GOULD, Mon. Trochil., III, 1861, pl. 143.

Range: Whole of Mexico and adjacent portions of United States (southern Arizona and southwestern Texas).

3: "Mexico."

*Calothorax pulcher (*Gould*). BEAUTIFUL HUMMINGBIRD.

Calothorax pulchra GOULD, Ann & Mag. Nat. Hist., IV, 1859, p. 97 (Oaxaca, Mexico); *Id.* Mon. Trochil., III, 1861, pl. 144; ELLIOT, Syn. Trochil., 1879, p. 118; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 391.

C[alothorax] pulcher HEINE, Journ. fur Ornith., 1863, p. 207; HARTERT, Das Tierreich, 1900, p. 194.

Calothorax pulcher RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 655.

Range: Southern Mexico.

1: Mexico (Oaxaca).

Genus **MYRTIS** Reichenbach.

Myrtis (part) Reichenbach, Aufz. d. Col., 1854, p. 13 (Type *Ornismya fanny* Lesson).

*Myrtis fanny (*Lesson*). FANNY'S WOOD-STAR.

Ornismya fanny LESSON, Ann. Sci. Nat. (2) IX, 1838, p. 170 (Peru).

Trochilus labrador BOURCIER, Ann. Sci. Phys. et Nat. Lyon, II, 1839, p. 389.

Calothorax fanny GOULD, Mon. Trochil., III, 1856, pl. 151.

Calothorax fanniae SCLATER, Proc. Zool. Soc. Lond., 1858, p. 459.

Thaumastura francescae SCLATER, Proc. Zool. Soc. Lond., 1869, p. 146.

Myrtis fanny ELLIOT, Syn. Trochil., 1879, p. 127; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 417; TACZANOWSKI, Orn. Perou, I, 1884, p. 312; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 340 (Chillo and Chota Valleys, Ecuador).

Myrtis fannyae SIMON, Nov. Zool., IX, 1902, p. 183 (Cojabamba; Huaylillas, Peru).

Range: Peru and western Ecuador.

10: Peru (Macate) 7; "Ecuador" 3.

Myrtis yarrelli (*Bourcier*). YARRELL'S WOOD STAR.

Trochilus yarrelli BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 45 ("Montevidio").

Calothorax yarrelli GOULD, Mon. Trochil., III, 1852, pl. 152.

Myrtis yarrelli WHITELY, Proc. Zool. Soc. Lond., 1873, p. 187; ELLIOT, Syn. Trochil., 1879, p. 137; TACZANOWSKI, Orn. Perou, I, 1884, p. 311; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 418.

Range: Southern Peru and western Bolivia.

Genus **MYRMIA** Mulsant.

Myrmia Mulsant, Ann. Soc. Linn., Lyon, 1875, XXII, p. 228 (Type *Calothorax micrurus* Gould).

*Myrmia micrura *Gould*. SHORT-TAILED WOOD STAR.

Calothorax micrurus GOULD, Proc. Zool. Soc. Lond., 1853, p. 109 (Peru); *Id.*, Mon. Trochil., III, 1854, pl. 148.

Acestrura micrura ELLIOT, Syn. Trochil., 1879, p. 120; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 409.

Myrmia micrura MULSANT, Hist. Nat. Ois.-Mouches, IV, 1877, p. 113; TACZANOWSKI, Orn. Perou, I, 1884, p. 308; HARTERT, Das Tierreich, 1900, p. 196; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 340 (Santo Domingo, western Ecuador).

Range: Northern Peru and western Ecuador; Bolivia?

1: Peru (Chyion).

Genus **CALLIPHLOX** Boie.

Calliphlox Boie, Isis, 1831, p. 344 (Type *Trochilus amethystinus* Gmelin).

*Calliphlox amethystina *(Gmelin)*. AMETHYST HUMMINGBIRD.

Trochilus amethystinus GMELIN, Syst. Nat., I, 1788, p. 496 ("Cayenna").

Calliphlox amethystina GOULD, Mon. Trochil., III, 1856, pl. 159; ELLIOT, Syn. Trochil., 1879, p. 130; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 386; BERLEPSCH, Nov. Zool., XV, 1908, p. 268; HELLMAYR, Nov. Zool., XIII, 1906, p. 379; CHUBB, Bds. Brit. Guiana, I, 1916, p. 424.

(?) *Ornismya othura* LESSON, Hist. Nat. Trochil., 1832, pp. 85–88, pls. 28, 29.[a]

(?) *Catharma othura* ELLIOT, Syn. Trochil., 1879, p. 112; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 410; HARTERT, Das Tierreich, 1900, p. 196; CHERRIE, Bull. Brooklyn Inst. Arts & Sci., II, 1916, p. 299 (crit).

Trochilus brevicauda SPIX, Av. Bras., 1824, p. 79, pl. 80.

(?) *Ornismya amethystoides* LESSON, Hist. Nat. Trochil., 1832, p. 79, pl. 25.

(?) *C[alliphlox] roraimae* BOUCARD, Humming Bds., I, 1891, p. 30.

Range: Guiana, Trinidad, Venezuela, eastern Ecuador and Brazil.

4: Venezuela (Caracas) 1; British Guiana (Roraima 1, Merume Mts. 1); Locality? 1.[b]

[a] *Cf.* Berlepsch, Nov. Zool., XV, 1908, p. 268, footnote.

[b] An immature male in the Field Museum collection (No. 45538) labelled *Catharme othura*, ♂, in Boucard's handwriting, has the tail square with white tips to the outer feathers as mentioned by Berlepsch. It is possible it may prove to be a distinct form.

***Calliphlox mitchellii** (*Bourcier*). MITCHELL'S AMETHYST.

Trochilus mitchellii BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 47 ("Zimapan").
Calliphlox mitchelli GOULD, Mon. Trochil., III, 1860, pl. 160; ELLIOT, Syn. Trochil., 1879, p. 131; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 388; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 311 (Gallera; Barbacoas, western Colombia).
Calliphlox mitchellii HARTERT, Das Tierreich, 1900, p. 198; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 341 (Milligalli; Gualea; and Baeza, eastern Ecuador).

Range: Colombia and Ecuador.
1: "Ecuador."

Genus **NESOPHLOX** Ridgway.

Nesophlox Ridgway, Proc. Biol. Soc. Wash., XXIII, 1910, p. 55 (Type *Trochilus evelynae* Bourcier).

***Nesophlox bryantae** (*Lawr.*). COSTA RICAN WOOD-STAR.

Doricha bryantae LAWRENCE, Ann. Lyc. Nat. Hist., N. Y., VIII, 1867, p. 483 (Costa Rica); ELLIOT, Syn. Trochil., 1879, p. 125; GOULD, Mon. Trochil., Suppl., 1881, pl. 53; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 384; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 347.
C[alliphlox] bryantae HARTERT, Das Tierreich, 1900, p. 198.
Nesophlox bryantae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 645.

Range: Costa Rica and western Panama.
5: Costa Rica 1; Panama (Chiriqui 2, Veragua 2).

***Nesophlox evelynae** (*Bourcier*). BAHAMA WOOD-STAR.

Trochilus evelynae BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 44 (Nassau, New Providence).
Thaumastura evelynae GOULD, Mon. Trochil., III, 1861, pl. 156.
Doricha evelynae ELLIOT, Syn. Trochil., 1879, p. 125; CORY, Bds. Bahama Is., 1880, p. 108; *Id.*, Bds. West Indies, 1889, p. 150; *Id.*, Cat. Bds. West Indies, 1892, p. 107; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 333; RILEY in Shattuck's Bahama Islands, 1905, p. 363 (Abaco; Biminis; Berry I.; Eleuthera; Current I.; New Providence I.; Andros I.; Green Cay; Cay Sal; Cat. I.; Conception I.; Rum Cay; Watlings I.; Long I.; Acklin I.; North Caicos I.; Grand Caicos I.; East Caicos I.).
Trochilus bahamensis BRYANT, Proc. Boston Soc. N. H., VII, 1859, p. 106.
Nesophlox evelynae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 641; TODD and WORTHINGTON, Annals Carnegie Mus., VII, 1911, p. 455.

Range: Bahama Islands (except Inagua).
†34: Bahama Islands (New Providence I. 6, Abaco I. 8, Andros I. 2, Bimini I. 2, Berry I. 3, Eleuthera I. 3, Caicos I. 10).

*Nesophlox lyrura (*Gould*). INAGUA WOOD-STAR.

Doricha lyrura GOULD, Ann. & Mag. N. H., (4), IV, 1869, p. 111 ("Long Id," i. e. Inagua I.,[a] Bahamas); ELLIOT, Syn. Trochil., 1879, p. 126; CORY, Bds. Bahama Is., 1880, p. 110; *Id.*, Bds. West Indies, 1889, p. 150; *Id.*, Cat. Bds. West Indies, 1892, pp. 107, 127; SALVIN, Cat. Bds. Brit., Mus., XVI, 1892, p. 382.

Nesophlox lyrura RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 643.

Range: Inagua Island, Bahamas.

†46: Bahamas (Inagua I.).

Genus DORICHA Reichenbach.

Doricha Reichenbach, Aufz. der Colib., 1854, p. 12 (Type *Trochilus enicurus* Vieillot).

*Doricha enicura *Vieillot*. SLENDER SHEAR-TAIL.

Trochilus enicurus VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, p. 429 ("Brazil," errore).

Thaumastura enicura GOULD, Mon. Trochil., III, 1861, pl. 157.

Doricha enicura ELLIOT, Syn. Trochil., 1879, p. 124; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 381; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 648.

Thaumastura henicura SALVIN and SCLATER, Ibis, 1860, p. 40.

D[oricha] henicura HARTERT, Das Tierreich, 1900, p. 199.

Range: Highlands of Guatemala.

3: Guatemala (Vera Paz 1, "Guatemala" 2).

*Doricha eliza (*Lesson and Delattre*). MEXICAN SHEAR-TAIL.

Trochilus eliza LESSON and DELATTRE, Rev. Zool., 1839, p. 20 (between Vera Cruz and Jalapa, Vera Cruz, Mexico).

Thaumastura elizae GOULD, Mon. Trochil., III, 1861, pl. 155.

Doricha elizae ELLIOT, Syn. Trochil., 1879, p. 125; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 382.

Doricha eliza RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 650.

Range: Southeastern Mexico, Vera Cruz, Yucatan (including Holbox I.), etc.

2: Mexico (Progresso 1, Yucatan 1).

Genus TILMATURA Reichenbach.

Tilmatura Reichenbach, Aufz. d. Colib., 1854, p. 8 (nom. Nud.); *Id.*, Trochil. Enum., 1855, p. 5 (Type *T. lepida* Reichenbach = *Ornismya duponti* Lesson).

[a] Gould supposed the type of *lyrura* came from Long Island but Dr. Bryant, who collected the specimen, visited both Long Island and Inagua. So far as known the species is confined to Inagua.

***Tilmatura dupontii** (*Lesson*). DUPONT'S HUMMINGBIRD.

Ornismya dupontii LESSON, Hist. Nat. Colib., Suppl. Ois.-Mouches, 1830–31, p. 100, pl. 1 (Mexico).

Tryphaena dupontii GOULD, Mon. Trochil., III, 1861, pl. 158.

Tilmatura duponti ELLIOT, Syn. Trochil., 1900, p. 128; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 385.

Tilmatura dupontii RIDGWAY, Bull. U. S. Nat. Mus. No., 50, V, 1911, p. 638.

Range: Southern Mexico; Highlands of Guatemala and northern Nicaragua.

4: Mexico (Tuxpan 1); Guatemala 2; Nicaragua (San Raphael 1).

Genus **ARCHILOCHUS** Reichenbach.

Archilochus Reichenbach, Aufz. d. Colib., 1854, p. 13 (Type *Trochilus alexandri* Bourcier & Mulsant).

***Archilochus colubris** (*Linnaeus*). RUBY-THROATED HUMMINGBIRD.

Trochilus colubris LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 120 (Carolina to New England); AUDUBON, Orn. Biog., I, 1831, p. 248, pl. 47; GOULD, Mon. Trochil., III, 1861, pl. 131; CORY, Bds. West Indies, 1889, p. 148; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 399.

Archilochus colubris RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 629.

Range: Eastern North America north to southern Labrador, Keewatin, northern Alberta, etc., west in the interior to middle portion of the Great Plains; breeds from Florida and the Gulf states northward; winters from middle Florida and southern Texas, southward in Mexico, Guatemala, Nicaragua, Costa Rica and western Panama; also in the Bahamas (New Providence I.); Cuba, Porto Rico?[a], and Bermudas.

25: North America — Maine 6, Connecticut 1, Wisconsin 7, Illinois 4, Florida, (Key West, Dec. 27) 3; Mexico (Tampico, Apr. 8) 1; Guatemala (Lake Atitlan, Apr. 10) 2, (Zacapa, Feb. 14) 1.

***Archilochus alexandri** *Bourcier and Mulsant.* BLACK-CHINNED HUMMINGBIRD.

Trochilus alexandri BOURCIER and MULSANT, Ann. Soc. Agric. Lyon, IX, 1846, p. 330 (Sierra Madre, Mexico); GOULD, Mon. Trochil., III, 1861, pl. 132; BAIRD, BREWER and RIDGWAY, Hist. N. Am. Bds., II, 1874, p. 450, pl. 47, Fig. 1; ELLIOT, Syn. Trochil., 1879, p. 106; SALVIN, Cat. Bds. Brit. Mus. XVI, 1892, p. 402.

Archilochus alexandri RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 633.

Range: Western United States and southern British Colombia, east to southern Alberta, western Montana, western Colorado, and

[a] Wetmore questions Gundlach's record for Porto Rico; *cf.* Bull. No. 326, U. S. Dept. Agric., 1916, p. 70.

middle Texas, and southward in California, Arizona, New Mexico, and northern Mexico. In winter its range extends to southern Mexico (Mexico City and State of Guerrero, etc.).

†32: Arizona (Huachuca Mts. 25; Camp Lowell 1); Montana (Colombia Falls 2); California (San Bernadino 3); New Mexico 1.

Archilochus violijugulum *Jefferies*.[a] VIOLET-THROATED HUMMINGBIRD.

Trochilus violajugulum JEFFERIES, Auk, 1888, p. 168 (Santa Barbara, California).

T[rochilus] violajugulum, HARTERT, Das Tierreich, 1900, p. 202 (crit., hybrid?).

Archilochus violijugulum RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 636 (crit., hybrid?).

Range: Recorded from Santa Barbara, California.

Genus CALYPTE Gould.

Calypte Gould, Mon. Trochil., III, 1861, text to pl. 134; *Id.*, Introd. Trochil., 1861, p. 87 (Type *Ornismya costae* Bourcier).

***Calypte costae** (*Bourcier*). COSTA'S HUMMINGBIRD.

Ornismya costae BOURCIER, Rev. Zool., 1839, p. 294 (California).

Calypte costae GOULD, Mon. Trochil., III, 1861, pl. 134; BAIRD, BREWER and RIDGWAY, Hist. N. Am. Bds., II, 1874, p. 457, pl. 47, Fig. 8; ELLIOT, Syn. Trochil., 1879, p. 107; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 404; BREWSTER, Bull. Mus. Comp. Zool., XLI, 1902, p. 112 (Lower California); STONE, Proc. Ac. Nat. Sci., Phila., 1905, p. 682 (Arizona breeding); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 623.

Range: Southern California (and adjacent islands, Santa Margarita, etc.) north to San Francisco, east to southern Nevada and southern Utah, Arizona and southern New Mexico; south in winter in northwestern Mexico to at least Mazatlan.

7: Arizona (Calabasas) 1; California (Poway; Riverside; San Bernardina) 6.

***Calypte helenae** (*Lembeye*). HELENA'S HUMMINGBIRD.

Orthorhynchus helenae LEMBEYE, Aves de la Isla de Cuba, 1850, p. 70, pl. 10, Fig. 2 (Cardenas, Cuba).

Calypte helenae GOULD, Mon. Trochil., III, 1861, pl. 136; CORY, Auk, 1886, p. 354; *Id.*, Bds. West Indies, 1889, p. 149; *Id.*, Cat. Bds. West Indies, 1892, p. 107; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 405; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 625.

Range: Island of Cuba.

6: Cuba (Santiago de Cuba).

[a] Ridgway believes this doubtful species to be a hybrid of *A. alexandri* and *Calypte anna* (*cf.* l.c. footnote). The type and only known specimen is now in the collection of the Museum of Comparative Zoölogy, Cambridge.

***Calypte anna** (*Lesson*). ANNA'S HUMMINGBIRD.

Ornismya anna LESSON, Hist. Nat. Ois.-Mouches, 1829, pp. 31, 205, pl. 74 (California).

Trochilus anna AUDUBON, Orn. Biog., V, 1839, p. 238, pl. 425.

Calypte annae GOULD, Mon. Trochil., III, 1861, pl. 135; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 403.

Calypte anna BAIRD, BREWER and RIDGWAY, Hist. N. Am. Bds., II, 1874, pl. 47, Fig. 7; HARTERT (E. & Cl.) Nov. Zool., I, 1894, p. 22 (breeding); STONE, Proc. Acad. Nat. Sci. Phila., 1904, p. 582; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 619.

Range: California (and Santa Barbara I., Catalina I., and other islands), Lower California, southern Arizona and northern Mexico (Sonora).

†17: California (San Jose, Monterey, Palo Alto, Nicasio, Santa Clara, Alhambra, etc.).

Genus **SELASPHORUS** Swainson.

Selasphorus Swainson, Fauna Bor-Am., II, 1831, p. 324 (Type *Trochilus rufus* Gmelin).

***Selasphorus rufus** (*Gmelin*). RUFOUS HUMMINGBIRD.

Trochilus rufus GMELIN, Syst. Nat., I, 1788, p. 497 (Nootka Sound, British Colombia); AUDUBON, Orn. Biog., IV, 1838, p. 555, pl. 379.

Selasphorus rufus GOULD, Mon. Trochil., III, 1861, pl. 141; BAIRD, BREWER and RIDGWAY, Hist. N. Am. Bds., II, 1874, p. 459, pl. 47, Fig. 4; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 392; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 612.

Selasphorus ruber REICHENBACH, Aufz. d. Colib., 1854, p. 13.

Selasphorus henshawi ELLIOT, Bull. Nutt. Orn. Club, II, 1877, pp. 97–102.

Range: Western North America from Alaska to northern Guatemala and from the Pacific coast east to Montana, Wyoming, Colorado and New Mexico.

†26: Alaska (Sitka) 1; Arizona (Huachuca Mts.) 2; New Mexico (Lone Mt.) 1; California (Carmel, Palo Alto, Pasadena, Alhambra, etc.) 21.

Selasphorus floresii[a] *Gould*. FLORESI'S HUMMINGBIRD.

Selasphorus floresii (nec. *T. floresii* Bourcier, 1846) GOULD, Mon. Trochil., III, 1861, pl. 139 (Bolanos, Jalisco, Mexico); ELLIOT, Syn. Trochil., 1879, p. 109; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 392; HARTERT, Das Tierreich, 1900, p. 207; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 616.

[a] This is generally believed to be a hybrid of *S. alleni* and *Calypte anna* (*cf.* Ridgway, l.c. and Hartert l.c.).

Range: Specimens supposed to represent this doubtful species have been taken at Bolanos, Jalisco, Mexico, 1845; San Francisco, California 1885; Haywards, Alamedo County, California 1901; near Nicasio, Marin County, California, 1909.[a]

***Selasphorus alleni** *Henshaw.* ALLEN'S HUMMINGBIRD.

Selasphorus alleni HENSHAW, Bull. Nutt. Orn. Club, II, 1877 (Nicasio, Marin Co., California); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 394; STONE, Proc. Ac. Nat. Sci. Phila., 1904, p. 582; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 609.

Range: Pacific coast region of North America from British Colombia to northwestern Mexico and Lower California (also on east side of Cascade range and through southern California to southern Arizona).

8: Arizona (Huachuca Mts.) 1; California (Nicasio 4, Eagle Lake 1, "California" 1).

***Selasphorus flammula** *Salvin.* LESSER BROAD-TAILED HUMMINGBIRD.

Selasphorus flammula SALVIN, Proc. Zool. Soc. Lond., 1864, p. 586 (Volcan de Cartago=Volcan de Irazu, Costa Rica); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 398; SHARPE, Gould's Suppl. Mon. Trochil., 1883, pl. 31; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 357; HARTERT, Nov. Zool., II, 1895, p. 68; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 601.

Range: Highlands of Costa Rica.

6: Costa Rica (Volcan Irazu).

***Selasphorus torridus** *Salvin.* HELIOTROPE-THROATED HUMMINGBIRD.

Selasphorus torridus SALVIN, Proc. Zool. Soc. Lond., 1870, p. 208 (Volcan de Chiriqui, Panama); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 395; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 354; pl. 56, Figs. 2–3; FERRY, Field Mus. Pub., No. 146, Orn. Ser., I, 1910, p. 264 (Vol. Turrialba, Costa Rica); HARTERT, Das Tierreich, 1900, p. 206; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 602.

Range: Highlands of western Panama and Costa Rica.

10: Costa Rica (Vol. Turrialba).

***Selasphorus scintilla** (*Gould*). SCINTILLANT HUMMINGBIRD.

Trochilus (*Selasphorus*) *scintilla* GOULD, Proc. Zool. Soc. Lond., 1850, p. 162 (Volcan de Chiriqui, 9000 ft., Panama).

Selasphorus scintilla GOULD, Mon. Trochil., III, 1861, pl. 138; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 395; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 353; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 607

(?) *Selasphorus underwoodi* SALVIN, Bull. Brit. Orn. Club, VI, 1897, p. XXXVIII (Volcan de Irazu, Costa Rica); *Id.*, Ibis, 1897, p. 441 (reprint); CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 549; (Costa Rica, crit.); *Id.*, Holland, p. 550 footnote (crit.).

[a] Ridgway, l.c., p. 617.

Range: Highlands of Costa Rica and western Panama.

8: Panama (Chiriqui) 3; Costa Rica (Vol. Irazu 2, Cartago 2, "Costa Rica" 1).

***Selasphorus ardens** *Salvin*. GLOW-THROATED HUMMINGBIRD.

Selasphorus ardens SALVIN, Proc. Zool. Soc. Lond., 1870, p. 209 (Castillo, Veragua, Panama); *Id.* Cat., Bds. Brit. Mus., XVI, 1892, p. 398; SHARPE, Suppl. Gould's Mon. Trochil., 1883, pl. 31; SALVIN and GODMAN, Biol. Centr. Am. Aves, III, 1892, p. 356, pl. 56, Fig. 1; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 604.

Range: Highlands of western Panama.

1: Panama (Chiriqui).

***Selasphorus simoni** *Carriker*. SIMON'S HUMMINGBIRD.

Selasphorus simoni CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 550 (Volcan de Barba, Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 606.

Range: Highlands of Costa Rica (Volcan de Poas; Volcan de Barba; Las Cruces de Candelaria).

1: Costa Rica (Volcan Irazu).

***Selasphorus platycercus** (*Swainson*). BROAD-TAILED HUMMINGBIRD.

Trochilus platycercus SWAINSON, Philos. Mag. N. S., I, 1827, p. 441 (Mexico); MERRIAM, N. Am. Fauna, No. 3, 1890, p. 39 (Colorado); *Id.*, No. 5, 1891, p. 98 (Idaho); ANTHONY, Auk, 1892, p. 363 (New Mexico); LOWE, Auk, 1894, p. 268 (Colorado, breeding, 1000 ft. alt.).

Selasphorus platycercus GOULD, Mon. Trochil., III, 1861, pl. 140; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 396; BAIRD, BREWER and RIDGWAY, Hist. N. A. Bds., II, 1874, p. 462; pl. 47, Fig. 2, BREWSTER, Bull. Nutt. Orn. Club, 1882, p. 211 (Arizona); SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 355; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 597.

Ornismya montana LESSON, Les Trochil., 1831, p. 161, pls. 63–64 (Mexico).

Range: Mountain districts of western United States, east to Wyoming, Colorado, Montana, etc., and from western Texas, New Mexico, Arizona and California, south through greater part of Mexico and highlands of Guatemala.

†13: Colorado (Aiken) 1; Arizona (Huachuca Mts. 7, Santa Rita Mts. 1); Mexico (Chihuahua 3, "Mexico" 1).

Genus **CHAETOCERCUS** Gray.

Chaetocercus Gray, Gen. Bds. Brit. Mus., 1855, p. 22 (Type *Ornismya jourdanii* Bourcier).

***Chaetocercus mulsanti** (*Bourcier*). MULSANT'S WOOD STAR.

Ornismya mulsanti BOURCIER, Ann. Sc. Phys. et Nat. Lyon, V, 1842, p. 342, pl. 20 (Colombia).

Ornismya cyanopogon (nec. Lesson, 1829) D'ORBIGNY and LAFRESNAYE, Mag. Zool., II, 1838, p. 28.

Calothorax mulsanti GOULD, Mon. Trochil., III, 1851, pl. 145.

Acestrura mulsanti ELLIOT, Syn. Trochil., 1879, p. 119; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 406.

Chaetocercus mulsanti HARTERT, Das Tierreich, 1900, p. 208; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 341, crit. (Corazon; Pichincha; Jambaco, near Quito; west Ecuador and Papallacta, east Ecuador); CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 311 (Barro Blanco, Colombia).

Range: Colombia, Ecuador, Peru and Bolivia.

7: Colombia 5; Ecuador (Quito) 1; Bolivia 1.

***Chaetocercus heliodor** (*Bourcier*). HELIODOR'S WOOD STAR.

Ornismya heliodor BOURCIER, Rev. Zool., III, 1840, p. 295 (Bogota).

Ornismya heliodori BOURCIER, Ann. Soc. Agric. Lyon, V, 1842, p. 308, pls. 15, 20.

Calothorax heliodori GOULD, Mon. Trochil., III, 1851, pl. 147.

Acestura heliodori ELLIOT, Syn. Trochil., 1900, p. 120; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 408.

Calothorax decoratus GOULD, Proc. Zool. Soc. Lond., 1860, p. 309.

Chaetocercus heliodor HARTERT, Das Tierreich, 1900, p. 208; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 312 (San Augustin; Miraflores, Colombia).

Range: Colombia, Venezuela and Ecuador.

17: Colombia (Bogota 1, "Colombia" 6); Venezuela (near Merida) 10.

Chaetocercus astreans[a] (*Bangs*). BANG'S WOOD STAR.

Acestura astreans BANGS, Proc. New Engl. Zool. Club, I, 1899, p. 76 (San Sebastian, Sierra de Santa Martat, Colombia, alt. 6000 ft.).

Range: Northern Colombia.

Chaetocercus burmeisteri *Sclater*. BURMEISTER'S WOOD STAR.

Chaetocercus burmeisteri SCLATER, Proc. Zool. Soc. Lond., 1887, p. 638 ("Valle de Tafe, Tucuman, Argentine); SCLATER and HUDSON, Argent. Orn., II, 1889, p. 2, pl. II; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 415; BURMEISTER, Ibis, 1890, p. 384; LONNBERG, Ibis, 1903, p. 445, footnote, crit. (Quinto); HARTERT, Das Tierreich, 1900, p. 209; HARTERT and VENTURI, Nov. Zool., XVI, 1909, p. 223.

Range: Northwestern Argentina.

***Chaetocercus rosae** (*Bourcier and Mulsant*). CRIMSON-THROATED WOOD STAR.

Trochilus rosae BOURCIER and MULSANT, Ann. Sc. Phys. et Nat. Lyon, IX, 1846, p. 316 (Caracas).

[a] *Chaetocercus astreans* (BANGS): Nearest to *C. heliodor*, but adult males differ from that species in having the back, rump, upper tail coverts, abdomen and under tail coverts shining metallic blue, the head only being green; metallic feathers of the throat less violet. Adult females differ in having upper tail coverts green like the back (not rufous as in *heliodor*) and two middle tail feathers green (instead of rufous with a black bar like the rest of the rectrices).

Calothorax rosae GOULD, Mon. Trochil., III, 1857, pl. 149.

Chaetocercus rosae ELLIOT, Syn. Trochil., 1879, p. 221; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 414; HARTERT, Das Tierreich, 1900, p. 209; HELLMAYR, and SEILERN, Arch. fur Naturg., Abt. A, 5 Heft, 1912, p. 147 (Cumbre de Valencia).

Range: Andes of Venezuela.

2: Venezuela (Caracas 1, near Merida 1).

***Chaetocercus jourdanii** (*Bourcier*). JOURDAN'S WOOD STAR.

Ornismya jourdanii BOURCIER, Rev. Zool., 1839, p. 295 ("La Trinite").

Calothorax jourdani GOULD, Mon. Trochil., III, 1861, pl. 150.

Chaetocercus jourdani ELLIOT, Syn. Trochil., 1879, p. 92; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 415; HARTERT, Das Tierreich, 1900, p. 209.

C[*haetocercus*] *jourdanii* HELLMAYR and SEILERN, Arch. fur Naturg., Abt. A, 5 Heft, 1912, p. 148, in text (Mts. of northern Trinidad and northeastern Venezuela).

Range: Mountains of Trinidad and northeastern Venezuela.

1: Trinidad.

***Chaetocercus bombus** *Gould.* LITTLE WOOD-STAR.

Chaetocercus bombus GOULD, Proc. Zool. Soc. Lond., 1870, p. 804 (Citado); ELLIOT, Syn. Trochil., 1900, p. 122; TACZANOWSKI, Orn. Perou, I, 1884, p. 309; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 416; HARTERT, Das Tierreich, 1900, p. 209.

Polyxemus bombus MULSANT and VERREAUX, Hist. Nat. Ois.-Mouches, IV, 1877, p. 123, pl. 111; OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 341 (Guayaquil and Santo Domingo, western Ecuador).

Range: Ecuador and northern Peru.

2: Ecuador (Camipampa 1, between Chimborazo and Chimba 1).

Chaetocercus berlepschi[a] *Simon.* BERLEPSCH'S WOOD STAR.

Chaetocercus berlepschi SIMON, Mem. Soc. Zool., France, II, 1889, p. 230 (Ecuador); BOUCARD, Gen. Humm. Bds., 1894, p. 18; HARTERT, Das Tierreich, 1900, p. 210.

Range: Eastern Ecuador.

[a] *Chaetocercus berlepschi* SIMON: Upper parts shining dark bronze green; throat metallic amethyst red; front of breast white; under parts and sides of body green; size between that of *C. rosae* and *C. bombus*. The characters of the tail appear to be intermediate between *C. rosae* and *C. bombus* (the latter being the type of *Polyxemus* MULSANT and VERREAUX, 1877).

C. berlepschi has the outer tail feather slender and sharply pointed not at all lanceolate (more nearly approaching *C. bombus*) but the outer primary is at least as long as the next (as in *C. rosae*).

Chaetocercus harterti[a] (*Simon*). HARTERT'S WOOD STAR.

Polyxemus harterti SIMON, Ornis, XI, 1901, p. 202 (Ibague, western Colombia).

Range: Western Colombia and western Ecuador.

Genus **MICROSTILBON**[b] Todd.

Microstilbon Todd, Proc. Biol. Soc. Wash., XXVI, 1913, p. 174 (Type *Microstilbon insperatus* Todd).

Microstilbon insperatus[c] *Todd.* SARA WOOD STAR.

Microstilbon insperatus TODD, Proc. Biol. Soc. Wash., XXVI, 1913, p. 174 (Buenavista, Province del Sara, Bolivia).

Range: Bolivia.

Genus **ATTHIS** Reichenbach.

Atthis Reichenbach, Aufz. d. Colib., 1854, p. 12 (Type *Ornismya heloisa* Lesson and Delattre).

***Atthis heloisa heloisa** (*Lesson and Delattre*). HELOISE'S HUMMINGBIRD.

Ornismya heloisa LESSON and DELATTRE, Rev. Zool., II, 1839, p. 15 (Jalapa and Coatepec, Vera Cruz, Mexico).

Selasphorus heloisae GOULD, Mon. Trochil., III, 1861, pl. 141.

Atthis heloisae ELLIOT, Syn. Trochil., 1879, p. 113; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 411, part; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 360, part; HARTERT (E. & C.), Nov. Zool., I, 1894, p. 64.

A[tthis] heloisa HARTERT, Das Tierreich, 1900, p. 210.

Atthis heloisa heloisa RIDGWAY, Bull. U. S. Nat. Mus., No. 50, 1911, p. 592.

Range: Central and southern Mexico.

3: Mexico (Cordaba).

***Atthis heloisa ellioti** (*Ridgway*). ELLIOT'S HUMMINGBIRD.

Atthis ellioti RIDGWAY, Proc. U. S. Nat. Mus., I, 1878, p. 9 (Volcan de Fuego, Guatemala); ELLIOT, Syn. Trochil., 1879, p. 14; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 412; SALVIN and GODMAN, Biol. Centr. Am. Aves, II, 1892, p. 361.

[a] *Chaetocercus harterti* (SIMON): Similar to *C. berlepschi* of eastern Ecuador, but differs in having the throat patch more violet red (similar in color to that in *Calliphlox amethystina*); outer rectrices longer and more blunt; upper parts of body obscure green, nearly resembling *berlepschi*.

[b] Genus *Microstilbon:* Closely allied to *Chaetocercus* GRAY, but tail of male differs in having the two outer rectrices elongated (almost as long as the body) and slightly expanded at the tips.

[c] *Microstilbon insperatus* TODD: Above shining green; wings dusky; tail dusky or bronzy violaceus; below grayish; throat paler (whitish) spangled with green, and sides more or less green. Wing, 26; tail, 30.5; culmen, 12.5 mm.

Atthis heloisa ellioti RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 594.

Range: Guatemala.

2: Guatemala (Vol. Fuego 1, "Guatemala" 1).

Atthis heloisa morcomi (*Ridgway*). MORCOM'S HUMMINGBIRD.

Atthis morcomi RIDGWAY, Auk, 1898, p. 325 (Huachuca Mts., Arizona); HARTERT, Das Tierreich, 1900, p. 211; SWARTH, Pacific Coast Avif., No. 4, 1904, p. 19.

Atthis heloisa morcomi RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 595.

Range: Southern Arizona (Huachuca Mts.).

Genus **STELLULA** Gould.

Stellula Gould, Introd. Trochil., 1861, p. 90 (Type *Trochilus calliope* Gould).

***Stellula caliope** (*Gould*). CALLIOPE HUMMINGBIRD.

Trochilus (*Calothorax*) *caliope* GOULD, Proc. Zool. Soc. Lond., 1847, p. 11 (Mexico).

Calothorax calliope GOULD, Mon. Trochil., III, 1867, pl. 142.

Stellula caliope ELLIOT, Syn. Trochil., 1879, p. 115; BAIRD, BREWER and RIDGWAY, Hist. N. Am. Bds., II, 1874, p. 445, pl. 47, Fig. 6; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 362; HARTERT, Das Tierreich, 1900, p. 211; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 588.

Range: Western United States and western British Colombia, east to Montana, Colorado, Arizona, New Mexico and western Texas; south in winter to central and western Mexico.

5: Montana (Colombia Falls) 2; Mexico 3.

Genus **MELLISUGA** Brisson.

Mellisuga Brisson, Orn., III, 1760, p. 694 (Type *Trochilus minima* Linnaeus).

***Mellisuga minima** (*Linnaeus*). VERVIAN HUMMINGBIRD.

Trochilus minimus LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 121 ("America" = Jamaica).

Mellisuga minima GOULD, Mon. Trochil., III, 1861, pl. 133; CORY, Auk, 1886, p. 354, part; *Id.*, Bds. West Indies, 1889, p. 149, part; *Id.*, Cat. Bds. West Indies, 1892, p. 13, part (Jamaica); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 409, part (Jamaica); SCOTT, Auk, 1892, p. 277 (Jamaica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911 (Jamaica).

Mellisuga humilis GOSSE, Bds. Jamaica, 1847, p. 127; *Id.*, Illustr. Bds. Jamaica, 1849, pl. 21.

Range: Island of Jamaica.

4: Jamaica.

***Mellisuga catharinae** (*Sallé*). HAITIAN VERVIAN HUMMINGBIRD.

Ornismya catharinae SALLÉ, Rev. et Mag. de Zool., 1849, p. 498 (Santo Domingo).
Mellisuga minima SALLÉ, Proc. Zool. Soc. Lond., 1857, p. 233 (Santo Domingo); ELLIOT, Syn. Trochil., 1879, p. 103, part (San Domingo); CORY, Bds. Haiti and San Domingo, 1885, p. 92, pl. 22, Fig. 6; *Id.*, Auk, 1886, p. 354, part (San Domingo); *Id.*, Bds. West Indies, 1889, p. 149, part (San Domingo); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 409, part (San Domingo).
Mellisuga catharinae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 586 (Santo Domingo).

Range: Island of Haiti and San Domingo.

†13: Haiti (Le Coup) 3; San Domingo (Puerto Plata 3, San Domingo City 4, Honduras 2, Catare 1).

Genus **ORTHORHYNCHUS** Lacépède.

Orthorhynchus Lacépède, Tabl. Ois., 1879, p. 9 (Type *Trochilus cristatus* Linnaeus).[a]

***Orthorhynchus exilis exilis** (*Gmelin*). GILT-CRESTED HUMMINGBIRD.

Trochilus exilis GMELIN, Syst. Nat., I, 1788, p. 484 ("Guiana"=St. Kitts[b]).
Orthorhynchus exilis GOULD, Mon. Trochil., IV, 1861, pl. 207; ALLEN, Bull. Nutt. Orn., Club, 1880, p. 167 (St. Lucia, crit.).
Bellona exilis ELLIOT, Syn. Trochil., 1879, p. 179; CORY, Auk, 1886, p. 357; *Id.*, Bds. West Indies, 1889, p. 152; *Id.*, Cat. Bds. West Indies, 1892, pp. 107, 144; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 354.
Microlyssa exilis exilis WETMORE, Bull. No. 326, U. S. Dept. Agric., 1916, p. 70 (Vieques=Culebra).
Orthorhynchus exilis exilis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 658.

Range: Virgin group of Greater Antilles (St. Thomas, St. Croix, Aengada, Virgin Gordo, Vieque, Culebra); Porto Rico[c] and Lesser Antilles, except St. Vincent, Grenada, Grenadines and Barbados.

†149: Virgin group of eastern Greater Antilles (St. Croix 1, Anegada 16, Virgin Gorda 16); Lesser Antilles (St. Kitts 39, St. Bartholemew 1, Marie Galante 9; Grand Terre 10, St. Lucia 11, Dominica 1, Martinique 19, Guadeloupe 25).

***Orthorhynchus exilis ornatus** (*Gould*). ST. VINCENT BLUE-CREST.

Orthorhynchus ornatus GOULD, Mon. Trochil., IV, 1860, pl. 206 (Type locality unknown=St. Vincent).
Bellona ornatus CORY, Auk, 1889, p. 218 (St. Vincent, crit.).
Bellona ornata SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 354 (St. Vincent).

[a] *Cf.* Oberholser, Smith. Misc. Coll., XLVIII, 1905, p. 60.
[b] I designate St. Kitts for the type locality.
[c] *Cf.* Wetmore, l.c.

Bellona exilis ornatus CORY, Cat. Bds. West Indies, 1892, pp. 107, 134, 144 (St. Vincent).

Bellona superba BOUCARD, The Humming Bird, I, 1891, p. 43 (St. Vincent); *Id.*, Gen. Humming Bds., 1893–95, p. 53 (St. Vincent).

Orthorhynchus exilis ornatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 661.

Range: Island of St. Vincent, Lesser Antilles; accidental in Martinique.

2: St. Vincent.

***Orthorhynchus cristatus cristatus** (*Linnaeus*). BLUE-CRESTED HUMMINGBIRD.

Trochilus cristatus LINNAEUS, Syst. Nat., ed. 10, I, 1758, p. 121 ("America" = Barbados).

Orthorhynchus cristatus GOULD, Mon. Trochil., IV, 1861, pl. 205.

Bellona cristata ELLIOT, Syn. Trochil., 1879, p. 178 (Barbados); CORY, Auk, 1886, p. 356, part (Barbados); *Id.*, Ibis, 1886, p. 472 (Barbados); *Id.*, Bds. West Indies, 1889, p. 151, part (Barbados); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, part (Barbados).

Orthorhynchus cristatus cristatus RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 662.

Range: Island of Barbados, Lesser Antilles.

†11: Barbados.

***Orthorhynchus cristatus emigrans** (*Lawrence*). GRENADA BLUE-CREST.

Orthorhynchus emigrans LAWRENCE, Ann. N. Y. Ac. Sci., I, 1878, p. 50 ("Venezuela" = Grenada).

Bellona cristata ELLIOT, Syn. Trochil., 1879, p. 178, part (Grenada); CORY, Auk, 1889, p. 218, part (Grenada); *Id.*, Cat. Bds. West Indies, 1892, pp. 13, 107, 144, part (Grenada); SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 353, part (Grenada).

Orthorhynchus cristatus emigrans OBERHOLSER, Smith. Misc. Coll., XLVIII, 1905, p. 60; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 664.

Range: Islands of Grenada, Union, Carriacou and Mustique, southern Lesser Antilles.

7: Grenada.

Genus **STEPHANOXIS** Salvin.

Cephallepis (nec. *Cephalepis* Rafinesque, 1810, Pisc.) Loddiges, Proc. Comm. Zool. Soc. Lond., I, 1830, p. 12 (Type *Trochilus lalandi* Vieillot).

Stephanoxis Simon, Cat. Trochil., 1897, p. 40 (new name to replace *Cephallepsis* preoccupied).

***Stephanoxis lalandi** (*Vieillot*). DELAND'S PLOVER-CREST.

Trochilus lalandi VIEILLOT, Nouv. Dtc., (2) 1818, p. 427 ("Bresil").

Cephallepsis delalandi LODDIGES, Proc. Zool. Soc. Lond., 1830, p. 12.

Cephalepis delalandi GOULD, Mon. Trochil., IV, 1854, pl. 208.
Cephalolepis delalandi ELLIOT, Syn. Trochil., 1879, p. 180; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 356.
Cephalepis beskii ELLIOT, Ibis, 1874, p. 262.
Cephalolepis beskii PELZELN, Orn. Bras., 1868, p. 58.
S[tephanoxis] lalandei HARTERT, Das Tierreich, 1900, p. 213.

Range: Southeast Brazil.

3: Brazil (Rio de Janeiro 1, "Brazil" 2).

***Stephanoxis loddigesi** (*Gould*). LODDIGES' PLOVER-CREST.

Trochilus loddigesi GOULD, Proc. Comm. Zool. Soc. Lond., 1830, p. 12 ("Rio Grande").
Cephalepis loddigesi GOULD, Mon. Trochil., IV, 1854, pl. 209.
Cephalolepis loddigesi ELLIOT, Syn. Trochil., 1879, p. 180; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 357.
S[tephanoxis] loddigesi HARTERT, Das Tierreich, 1900, p. 214.

Range: Southern Brazil.

1: "Brazil."

Genus **KLAIS** Reichenbach.

Subgen. *Klais* Reichenbach, Aufz. d. Colib., 1854, p. 13 (Type *Trochilus guimeti* Bourcier and Mulsant).
Clais (emendation) Sclater, Cat. Am. Bds., 1862, p. 304.

***Klais guimeti** (*Bourcier and Mulsant*). GUIMET'S HUMMINGBIRD.

Trochilus guimeti BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, VI, 1843, p. 38, pl. 2 (Colombia);[a] BOURCIER, Rev. Zool., 1843, p. 72 (Colombia and Caracas, Venezuela).
Klais guimeti GOULD, Mon. Trochil., IV, 1861, pl. 210; ELLIOT, Syn. Trochil., 1879, p. 184; TACZANOWSKI, Orn. Perou, I, 1884, p. 364; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 666; SALVIN and GODMAN, Biol. Centr.-Am. Aves, II, 1892, p. 343; HARTERT (E. & C.), Nov. Zool., I, 1894, p. 17 (Ecuador); CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 551 (Costa Rica); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 514; CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 312 (Andalucia and Buena Vista, eastern Andes, Colombia).
Mellisuga merrettii LAWRENCE, Ann. Lyc. N. H. N. Y., VII, 1860, p. 110 (Veragua, Panama).
Klais guimete merretti BERLEPSCH and STOLZMANN, Proc. Zool. Soc. Lond., 1902, p. 29 Borgona, Peru); *Id.*, Ornis, 1906, p. 120 (Cuzco, Peru).

Range: Nicaragua, Costa Rica, Panama, Colombia, Venezuela, Ecuador and Peru.

9: Colombia 5; Costa Rica (Navarro 2, Boruca 1, Tarraba 1).

[a] By designation.

Genus **ABEILLIA** Bonaparte.

Abeillia Bonaparte, Consp. Av., I, 1849, p. 79 (Type *Abellia typica* Bonaparte = *Ornismya abeillei* Delattre and Lesson).

*Abeillia abeillei (*Delattre and Lesson*). ABEILLE'S HUMMINGBIRD.

Ornismya abeillei DELATTRE and LESSON Rev. Zool., 1839, p. 16 (Jalapa, Vera Cruz, Mexico).
Abeillia typica ELLIOT, Syn. Trochil., 1879, p. 184; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 358.
Myiabeillia typica GOULD, Mon. Trochil., IV, 1861, pl. 211.
Abeillea abeillei HARTERT, Das Tierreich, 1900, p. 215.
Abeillia abeillei RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 517.

Range: Southeastern Mexico, Guatemala and northern Nicaragua.
2: "Mexico" 1; Guatemala 1.

Genus **MICROCHERA** Gould.

Microchera Gould, Mon. Trochil., pt. XVI, 1858, text to pl. 116 (Type *Mellisuga albo-coronata* Lawrence).

*Microchera albo-coronata (*Lawrence*). VERAGUAN SNOW-CAP.

Mellisuga albo-coronata LAWRENCE, Ann. Lyc. N. H., N. Y., VI, 1855, p. 37, pl. 4 (Veragua, Panama).
Microchera albocoronata GOULD, Mon. Trochil., II, 1861, pl. 116; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 66; ELLIOT, Syn. Trochil., 1879, p. 104; SALVIN and GODMAN, Biol. Centr.-Am. Aves, II, 1892, p. 268.
Microchera albo-coronata RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 581.

Range: Western Panama and southern Costa Rica?
1: Panama (Veragua).

*Microchera parvirostris *Lawrence*. COSTA RICAN SNOW-CAP.

Panychlora parvirostris LAWRENCE, Proc. Ac. Nat. Sci., Phila., 1865, p. 39 (Angostura, Costa Rica).
Microchera parvirostris ELLIOT, Syn. Trochil., 1880, pl. 30; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 67; SALVIN and GODMAN, Biol. Centr.-Am. Aves, II, 1892, p. 269; CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 551; HARTERT, Das Tierreich, 1900, p. 216; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911 p. 582.

Range: Eastern Costa Rica and Nicaragua.
3: Costa Rica (Carrillo 1, "Costa Rica" 2).

Genus **LOPHORNIS** Lesson.

Lophornis Lesson, Hist. Nat. Ois.-Mouches, 1829, p. 37 (Type *Trochilus ornatus* Boddaert).

Polemistria Cabanis and Heine, Mus. Heine, III, 1860, p. 63 (Type *Trochilus verreauxi* Bourcier).[a]

*Lophornis ornatus (*Boddaert*). TUFTED COQUETTE.

Trochilus ornatus BODDAERT, Tabl. Pl. Enl., 1873, p. 39 (Cayenne).

Lophornis ornatus GOULD, Mon. Trochil., III, 1855, p. 117; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 420; HARTERT, Das Tierreich, 1900, p. 217; BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 88; HELLMAYR, Nov. Zool., XIII, 1906, p. 36; BERLEPSCH, Nov. Zool., XV, 1908, p. 268; CHUBB, Bds. Brit. Guiana, I, 1916, p. 425.

Range: Guiana, Venezuela and Trinidad.

3: Guiana 1: Locality? 2.

Lophornis gouldi (*Lesson*). GOULD'S COQUETTE.

Ornismya gouldi LESSON, Hist. Nat. Trochil., 1832, p. 36 (Para).[b]

Bellatrix reginae REICHENBACH, Trochil. Enum., 1855, p. 9, pl. 813, Figs. 4899–4900.

Trochilus reginae SCHREIBER, Isis, 1833, p. 534 (Matto Grosso).

Lophornis gouldi GOULD, Mon. Trochil., III, 1855, pl. 118; ELLIOT, Syn. Trochil., 1879, p. 134; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 421; HELLMAYR, Nov. Zool., XIII, 1906, p. 379, crit. (Para, Matto Grosso); SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 204 (Providencia; Rio Grande; Rio Tocantins etc., Brazil).

Range: Central and northeastern Brazil.

*Lophornis magnificus (*Vieillot*). FRILLED COQUETTE.

Trochilus magnificus (nom. nud.) AUDEBERT and VIEILLOT, Ois. dor, I, 1802, pl. 8.

Trochilus magnificus VIEILLOT, Nouv. Dict. d'Hist. Nat., XXIII, 1818, p. 428 (Soumidorio, near Paraiba R., Prov. Rio de Janeiro).

Colibris helios SPIX, Av. Bras., I, 1824, p. 81, pl. 82, Fig. 2.

Ornismya strumaria LESSON, Hist. Nat. Ois.-Mouches, 1829, pp. XL, 143, pls. 42, 43.

Lophronis magnificus GOULD, Mon. Trochil., III, 1855, pl. 119; ELLIOT, Syn. Trochil., 1879, p. 135; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 422; HARTERT, Das Tierreich, 1900, p. 218; HELLMAYR, Nov. Zool., XV, 1908, p. 78, crit. (Faz. Esperanca, Rio Uruhu, Goyaz); *Id.*, Verh. de Ornith. Gesell. Bayern, XII, 1915, p. 153 (Rio de Janeiro; Goyaz; Matto Grosso; Bahia; Rio Grande do Sol).

[a] Proposed for the plain-throated group *verreauxi chalybeus*, etc., having an emarginate tail and somewhat more extensively feathered maxilla (at base). Ridgway considers it worthy of recognition (*cf.* Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 310).

[b] Designated by Brabourne and Chubb, Bds. S. Am., I, 1912, p. 147, No. 1433.

Range: Southern Brazil.

3: "Brazil."

***Lophornis regulus** (*Gould*). GREAT-CRESTED COQUETTE.

Trochilus regulus GOULD, Proc. Zool. Soc. Lond., 1846, p. 89 (Peru).

Lophornis regulus GOULD, Mon. Trochil., III, 1855, pl. 120; ELLIOT, Syn. Trochil., 1879, p. 133; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 423; HARTERT, Das Tierreich, 1900, p. 218.

Range: Peru and Bolivia.

4: Peru (Rioja) 2; Bolivia 2.

***Lophornis delattrei** (*Lesson*). DELATTRE'S COQUETTE.

Ornysmia (*Lophorinus*) *delattrei* LESSON, Rev. Zool., II, 1839, p. 19 (Type locality unknown, Colombia?).

Lophornis delattrei GOULD, Mon. Trochil., III, 1861, pl. 121; HARTERT, Das Tierreich, 1900, p. 218; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 671.

Lophornis delattrii ELLIOT, Syn. Trochil., 1879, p. 133, part; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 423.

Range: Southwestern Costa Rica, Panama and Colombia.

7: Colombia 6, Panama (Veragua) 1.

***Lophornis stictolophus** *Salvin and Elliot.* SPANGLED COQUETTE.

Lophornis stictolophus SALVIN and ELLIOT, Ibis, 1873, p. 280 (Colombia); ELLIOT Syn. Trochil., 1879, p. 133; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 424; HELLMAYR and SEILERN, Arch. fur. Naturg. Abh. A, 5 Heft, 1912, p. 148 (Venezuela).

Lophornis reginae (nec. *Trochilus reginae Schreibers*, 1833); GOULD, Proc. Zool. Soc. Lond., 1847, p. 95; *Id.*, Mon. Trochil., III, 1855, pl. 122; HARTERT, Das Tierreich, 1900, p. 219.

Range: Venezuela, Colombia and Ecuador.

5: Colombia (Bogota 2, "Colombia" 3).

***Lophornis helenae** (*Dellatre*). PRINCESS HELENAS COQUETTE.

Ornismya helenae DELATTRE, Echo du Monde Savante, 1843, p. 991, in text (Vera Paz, Guatemala).

Lophornis helenae GOULD, Mon. Trochil., III, 1861, pl. 123; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 425; SALVIN and GODMAN, Biol. Centr.-Am. Aves, II, 1892, p. 364; CARRIKER, Ann. Carnegie Mus., VI, 1910, p. 552; HARTERT, Das Tierreich, 1900, p. 219; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 673.

Range: Southeastern Mexico, southward to Costa Rica.

4: "Guatemala."

***Lophornis adorabilis** *Salvin.* ADORABLE COQUETTE.

Lophornis adorabilis SALVIN, Proc. Zool. Soc. Lond., 1870, p. 207 (Bugaba, Volcan de Chiriqui, Panama); *Id.*, Cat. Bds. Brit. Mus., XVI, 1892, p. 425; ELLIOT, Syn. Trochil., 1879, p. 135; SHARPE, Suppl. Gould's Mon. Trochil., 1880, pl. 35; CARRIKER, Ann. Carnegie Mus., V, 1910, p. 553; RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 675.

Range: Costa Rica and western Panama.

6: Costa Rica (San Jose) 4; Panama (Chiriqui) 2.

***Lophornis pavoninus** *Salvin and Godman.* GUIANA COQUETTE.

Lophornis pavoninus SALVIN and GODMAN, Ibis, 1882, p. 81 (Merumé Mts., British Guiana); WHITELY, Ibis, 1884, p. 357; SHARPE in Gould's Suppl., Mon. Trochil., 1887, pl. 36; HARTERT, Das Tierreich, 1900, p. 220; CHUBB, Bds. Brit. Guiana, I, 1916, p. 426.

Polemistria pavonina SALVIN, Ibis, 1885, p. 433.

Range: British Guiana.

2: British Guiana (Mt. Roraima).

***Lophornis chalybeus** (*Temminck*). FESTIVE COQUETTE.

Trochilus chalybeus TEMMINCK, Pl. Col., 1821, pl. 66, Fig. 2 ("Bresil").

Colibiri mystax SPIX, Av. Bras., II, 1824, pl. 82, Fig. 3.

Lophornis chalybeus GOULD, Mon. Trochil., III, 1824, pl. 124; ELLIOT, Syn. Trochil., 1879, p. 136; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 426; HARTERT, Das Tierreich, 1900, p. 221.

Polemistria chalybaeus CABANIS and HEINE, Mus. Heine, III, 1860, p. 63.

Range: Southern Brazil.

2: Brazil (Rio de Janeiro).

***Lophornis verreauxi verreauxi** (*Bourcier*). VERREAUX'S COQUETTE.

Trochilus verreauxi BOURCIER, Rev. Zool., 1853, p. 193 ("Perou").[a]

Lophornis verreauxi GOULD, Mon. Trochil., III, 1860, pl. 125; ELLIOT, Syn. Trochil., 1879, p. 136; TACZANOWSKI, Orn. Perou, I, 1884, p. 300; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 427; HARTERT, Das Tierreich, 1900, p. 221.

Lophornis hauxwelli BOUCARD, Gen. Humm. Bds., 1893, p. 37 (Nauta, Upper Amazons).

Polemistria verreauxi CABANIS and HEINE, Mus. Heine, III, 1860, p. 63; GOULD, Introd. Trochil., 1861, p. 85.

Range: Eastern Peru, Ecuador and Colombia.

3: Colombia 2; Ecuador (Nauta) 1.

[a] Berlepsch and Hartert suggest: "Upper Amazons, country about Yurimaguas," for the type locality. (*Cf.* Nov. Zool., IX, 1902, p. 89, footnote.)

Lophornis verreauxi klagesi[a] *Berlepsch and Hartert.* KLAGE'S COQUETTE.

Lophornis verreauxi klagesi BERLEPSCH and HARTERT, Nov. Zool., IX, 1902, p. 89 (Suapure, Caura River, Venezuela).

Polemistria verreauxi klagesi CHERRIE, Bull. Mus. Brooklyn Inst. Arts & Sci., II, 1916, p. 300.

Range: Venezuela.

Lophornis insignibarbis *Simon.*[b] SIMON'S COQUETTE.

Lophornis insignibarbis SIMON, Bull. Soc. Zool. France, XV, 1890, p. 17 (Bogota); HARTERT, Das Tierreich, 1900, p. 221.

L[ophornis] insignibarbis BOUCARD, Gen. Humming Bds., 1893–95, p. 37, in text, crit.[c]

Range: "Colombia."

Genus **POPELAIRIA** Reichenbach.

Popelairia Reichenbach, Aufz. d. Colib., 1854, p. 12 (Type *Trochilus popelairii* Du Bus).

***Popelairia popelairii** (*Du Bus*). POPELAIRE'S THORN-BILL.

Trochilus popelairii DU BUS, Equis. Orn., II, 1846, pl. 6 and text ("Perou").

Gouldia popelairii GOULD, Mon. Trochil., III, 1854, pl. 127; ELLIOT, Syn. Trochil., 1879, p. 138.

Prymnacantha popelairei SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 428.

Popelairia tricholopha REICHENBACH, Aufz. d. Colib., 1854, p. 12.

P[opelairea] popelairei HARTERT, Das Tierreich, 1900, p. 222.

Popelairia popelairii OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, p. 342 (Archidona, Ecuador); RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 678, in key.

Range: Colombia, Ecuador and Peru.

2: Colombia.

***Popelairia langsdorffi langsdorffi** (*Temminck*). LANGSDORFF'S THORN-BILL.

Trochilus langsdorffi TEMMINCK, Pl. Col., IV, 1821, pl. 66, Fig. 1 ("Bresil").[d]

Gouldia langsdorffi GOULD, Mon. Trochil., III, 1854, pl. 128; ELLIOT, Syn. Trochil., 1879, p. 138.

Prymnacantha langsdorffi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 431, part.

[a] *Lophornis verreauxi klagesi* BERL. and HARTERT: Similar to *L. v. verreauxi* from the Upper Amazons, but differs in having the general color of body darker green, rectrices and upper tail coverts dark bronzy olive (not dark copper bronze color); elongated feathers on sides of throat darker and white tips smaller.

[b] *Lophornis insignibarbis* SIMON: Approaches *L. v. verreauxi*, but elongated feathers of the neck replaced by a metallic green throat; bill more slender.

[c] Boucard (l.c.) believes this to represent a phase of plumage of an immature *L. verreauxi.*

[d] Type locality fixed by Hellmayr, "Rio de Janeiro."

P[opelairea] langsdorffi HARTERT, Das Tierreich, 1900, p. 223.

Popelairea langsdorffi langsdorffi HELLMAYR, Verh. der Ornith. Gesell. Bayern, XII, 1915, p. 154 (Bahia; Sao Paulo; Rio de Janeiro; Espirito Santo).

Range: Eastern and southern Brazil.

3: "Brazil."

***Popelairia langsdorffi melanosteron**[a] (*Gould*). BLACK-BREASTED THORN-BILL.

Gouldia melanosternon GOULD, Ann. & Mag. Nat. Hist., (4), I, 1868, p. 328 (Peru).

Gouldia melanosternum BOUCARD, Gen. Humming Bds., 1893–95, p. 41 (Peru and Ecuador).

Popelairea langsdorffi melanosternon HELLMAYR, Nov. Zool., XVII, 1910, p. 377 (Rio Madeira).

Popelairia langsdorffi OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 342 (Coca, Rio Napo, Ecuador).

Range: Peru, eastern Ecuador, Upper Amazonian Region.

3: "Ecuador" 2; Peru (Yurimaguas) 1.

***Popelairia conversii conversii** *Boucier and Mulsant.* CONVERS'S THORN-BILL.

Trochilus conversii BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IX, 1846, p. 313 (Bogota).

Gouldia conversi GOULD, Mon. Trochil., III, 1854, pl. 129; ELLIOT, Syn. Trochil., 1879, p. 139, part; BOUCARD, Gen Humming Bds., 1893–95, p. 42.

Prymnacantha conversi SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 430, part.

P[opelairea] conversi (typica) HARTERT, Das Tierreich, 1900, p. 223.

Popelairia conversii conversii RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 678, in key.

Popelairia conversi CHAPMAN, Bull. Am. Mus. N. H., XXXVI, 1917, p. 312 (Noanama; Barbacoas, Colombia).

Range: Colombia, Costa Rica and Panama.

3: "Colombia."

***Popelairia conversii aequatorialis**[b] (*Berlepsch and Taczanowski*). EQUATORIAL THORN-TAIL.

Gouldia conversi aequatorialis BERLEPSCH and TACZANOWSKI, Proc. Zool. Soc. Lond., 1883, p. 567 (Chimbo, west Ecuador).

[a] *Popelairia langsdorffi melanosteron* (GOULD): Similar to *P. l. langsdorffi*, but differs in having the crown grass green and the under parts darker and more golden on lower breast.

[b] *Popelairia conversii aequatorialis* BERLEPSCH and TACZANOWSKI: Authorities differ as to the standing of this subspecies. It is recognized by Hartert (l.c.) and Ridgway (l.c.), and Brabourne and Chubb, but questioned by Salvin, Boucard (l.c.) and Berlepsch. It is supposed to differ in its more bluish pectoral spot; longer bill and upper tail coverts more bronzy and less green. Chapman considers birds from western Colombia to be typical *P. conversii conversii*. I therefore restrict the range of *P. c. aequatorialis* to Ecuador, although this conflicts with Ridgway's statement that he is unable to distinguish Costa Rican and Panaman specimens from those from Ecuador (l.c., footnote, p. 680).

Popelairia conversi aequatorialis HARTERT, Nov. Zool., V, 1898, p. 494 (Chimbo, crit.); OBERHOLSER, Proc. U. S. Nat. Mus., XXIV, 1902, p. 342 (Santo Domingo and Nanegal, western Ecuador, crit.).

P[opelairea] conversi aequatorialis HARTERT, Das Tierreich, 1900, p. 223.

Popelairia conversii aequatorialis RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 679.

Range: Ecuador.

2: "Ecuador."

Popelairia letitiae (*Bourcier and Mulsant*). LETITIA'S THORN-BILL.

Trochilus letitiae BOURCIER and MULSANT, Ann. Sci. Phys. et Nat. Lyon, IV, 1852, p. 143 (Bolivia).

Gouldia letitiae GOULD, Mon. Trochil., III, 1855, pl. 130; ELLIOT, Syn. Trochil., 1879, p. 139.

Gouldia laetitiae BOUCARD, Gen. Humming Bds., 1893–95, p. 43.

Prymnacantha letitiae SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 431.

P[opelairea] letitiae HARTERT, Das Tierreich, 1900, p. 224.

Popelairiae letitiae RIDGWAY, Bull. U. S. Nat. Mus., No. 50, V, 1911, p. 679, in key.

Range: Bolivia.

Genus **DISCOSURA** Bonaparte.

Discosura Bonaparte, Comp. Av., 1850, p. 84 (Type *Trochilus longicauda* Gmelin).

Discura Reichenbach, Aufz. d. Col., 1854, p. 8 (Type *T. longicauda*).

***Discosura longicauda** (*Gmelin*). RACKET TAIL.

Trochilus longicauda GMELIN, Syst. Nat., I, 1788, p. 496 (Cayenne).[a]

Trochilus platurus LATHAM, Ind. Orn., 1790, p. 317.

Discura longicauda GOULD, Mon. Trochil., III, 1858, pl. 126; ELLIOT, Syn. Trochil., 1900, p. 140; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 431.

Discosura longicauda HELLMAYR, Nov. Zool., XIII, 1906, p. 379; SNETHLAGE, Bol. Mus. Goeldi, VIII, 1914, p. 205 (Cameta, Rio Tocantins, Brazil); CHUBB, Bds. Brit. Guiana, I, 1916, p. 427.

D[iscosura] longicauda HARTERT, Das Tierreich, 1900, p. 224.

Range: Guiana and Brazil.

2: "Brazil."

Genus **LODDIGIORNIS** Bonaparte.[b]

Loddigesia Bonaparte, Consp. Av., 1850, p. 80 (Type *Trochilus mirabilis* Bourcier).

Loddigiornis Bonaparte, Compt. Rend. Paris, XXX, April 1, 1850, p. 381 (Type *T. mirabilis*).

[a] Designated by Hellmayr, (l.c., 1906).

[b] Mr. Chubb (Bds. Brit. Guiana, I, 1916, p. 429) has called attention to the fact that *Loddigiornis* BONAPARTE, April 1, 1850, has priority over *Loddigesia* BONAPARTE after November, 1850.

Loddigiornis mirabilis (*Bourcier*). LODDIGES' SPATULE-TAIL.

Trochilus mirabilis BOURCIER, Proc. Zool. Soc. Lond., 1847, p. 42 (Chachapoyas, Peru).

Loddigesia mirabilis BONAPARTE, Consp. Av., 1850, p. 80; GOULD, Mon. Trochil., III, 1861, pl. 161; ELLIOT, Syn. Trochil., 1879, p. 145; TACZANOWSKI, Orn. Perou, I, 1884, p. 318; SALVIN, Cat. Bds. Brit. Mus., XVI, 1892, p. 355; HARTERT, Das Tierreich, 1900, p. 225; ROTHSCHILD, Ibis, 1896, p. 567 (Chachapoyas); BOUCARD, Gen. Humming Bds., 1893–95, p. 48.

Loddigiornis mirabilis BONAPARTE, Compt. Rend. Paris, XXX, 1850, p. 381.

Range: Peru. (Utcabamba Valley, etc.)

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