

List of the genera of Stratiomyidae (Diptera: Stratiomyomorpha) from Colombia based on biological collection records and literature

Listado de los géneros de Stratiomyidae (Diptera: Stratiomyomorpha) de Colombia a partir de registros de colecciones biológicas y literatura

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ABSTRACT

The Stratiomyidae fauna of Colombia is not well known, mainly because of very few published studies for the country. Currently, 35 genera are recorded. A review of the literature and the examination of more than 4000 specimens from entomological collections allowed us to record 54 genera of Stratiomyidae in Colombia, adding 19 genera to the previously known. A list of genera currently reported, an image of the wing for most of these genera, and locality data, are included.

Keywords: Biodiversity, lower Brachycera, Neotropical region, new records.

RESUMEN

La fauna de Stratiomyidae de Colombia es poco conocida en Colombia debido principalmente a que los estudios sobre su diversidad al interior del país son escasos. Actualmente se registran 35 géneros. La revisión bibliográfica y el estudio de más de 4000 ejemplares en colecciones entomológicas nos permitieron reconocer 54 géneros de Stratiomyidae en Colombia, considerando 19 nuevos registros. Se incluye un listado de los géneros, una imagen alusiva del ala para la mayoría de ellos y datos de localidad.

Palabras clave: Biodiversidad, Brachycera inferiores, región Neotropical, nuevos registros.

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INTRODUCTION

Stratiomyidae is a diverse and worldwide distributed family of Diptera that comprises twelve subfamilies, 365 described genera, and more than 2850 species (Woodley 2001, 2011, Hauser et al. 2017, Fachin and Hauser 2018, Lessard et al. 2020). According to Fachin and Assis-Pujol (2016) and Fachin and Hauser (2018), there are approximately 1000 species in the Neotropical region.

Soldier flies or stratiomyids can be recognized by the presence of a small discal cell concentrated anteriorly and radial veins crowded in the anterior margin of the wing (Woodley 2009b). However morphology of adults highly varies in: i) size ranging from 2.0 to 30.0 mm; ii) shape of the body slender or stout; iii) coloration green, blue, purple, yellow, orange, black and either bright, metallic, or dull; iv) occurrence of veins R_4 , R_5 , M_3 , and the base of M_4 ; v) occurrence of scutellar spines varying both in number from non, one, two or four, to fourteen and also in shape being short or long, pointy or pointless, and vi) size and shape of the antennae compacted or elongated commonly with five, six, seven or eight distinguishable flagellomeres. Regarding biology, adults often frequent flowers or the sources for larval food (Woodley 2001). Larvae of subfamilies Antissinae, Beridinae, Chiromyzinae, Chrysochlorininae, Clitellariinae, Hermetiinae, Pachygastrinae, Parhadrestriinae, and Sarginae are known from a variety of terrestrial habitats where they feed, such as detritus, leaf litter, stems, fruits, barks of fallen trees, and bamboo (Rozkošný and Kovac 1997, 1998, Marques and De Xerez 2009, Woodley 2009a); while members of Nemotelinae, Raphiocerinae and Stratiomyinae are usually associated with aquatic environments or trunks near to streams (Rozkošný and Kovac 2001, Pujol-Luz et al. 2004) where they can feed on litter, algae, and microorganisms (Kovac and Rozkošný 2004). So, larvae and adults participate in trophic chains as decomposers, and can be also feeding sources to other animals such as fishes, birds or mammals, and also act as potential pollinators.

Colombia is located in the extreme north-west of South America with a continental surface of 1 141 748 km², it is influenced by the Atlantic and Pacific oceans and has a special topography that grants the presence of heterogeneous ecosystems which allows it to be considered as a megadiverse country according to Convention of Biological Diversity (Andrade 2011).

Studies about the Stratiomyidae diversity in Colombia especially in recent years are scarce, so the fauna of the family is still poorly known. Recently, published works are focused on the black soldier fly *Hermetia illucens* (Linnaeus, 1758) (Arango-Gutiérrez et al. 2004, Arroyave-Sierra et al. 2019), which has lately developed an important economical alternative for people to overcome the armed conflict in the country (Barragán-Fonseca et al. 2020). This species has become the focus of increasing global interest in organic wastes management, composting, and as a source of protein for animal feeding in farming (Marshall et al. 2015). Other local studies are focused on immatures through limnology inventories and collections of aquatic macroinvertebrates. In most cases, the identification of larvae has been performed to family category (Aguilera-Arango et al. 2012, Tamaris-Turizo et al. 2013, Granados-Martínez and Batista 2017, Rojas-Céspedes et al. 2018, Nuñez and Fragosó-Castilla 2020) and only in a few studies, to genus level such as: *Euparyphus* Gerstaecker, 1857 (Fernández-Rodríguez et al. 2016), with one larvae from Antioquia collected and identified by Roldán in 1981; *Stratiomys* Geoffroy, 1762 (Chará-Serna et al. 2010, Cuadrado-Argel et al. 2013); *Odontomyia* Meigen, 1803 (Chará-Serna et al. 2010, Longo et al. 2010, Rojas-Sandino et al. 2018) and presumable misidentified records of “*Allognosta*” Osten Sacken, 1883 (Chará-Serna et al. 2010, Fernández-Rodríguez et al. 2016) that we recommend should be careful examined for confirmation because larvae of *Allognosta* is terrestrial and is known to be widely distributed in the Afrotropics, Oriental and Palearctic regions, also in America there are three species restricted to the eastern Nearctic (Woodley 2001) but no reports to Neotropics.

Nearly all published records of Stratiomyidae in Colombia are insufficient, many lack complete locality data, and most of the specimens are housed in foreign institutions with a current representation of only 37,5% of the country departments. The extant records were examined and presented by Fachin & Assis-Pujol within the Catalogue of Diptera of Colombia (Wolff et al. 2016), containing 87 species in 32 genera, including the addition of recording *Microchrysa polita* (Linnaeus, 1758) (genus and species) and *Merosargus gracilis* Williston, 1888 as a novelty for the country.

The latest contributions to the Colombian stratiomyid fauna were presented by Fachin & Hauser (2018), who transferred *Himantigera dichroa* Schiner, 1868 to *Sargus* (now *Sargus dichrous* (Schiner, 1868)) and also recorded three other species:

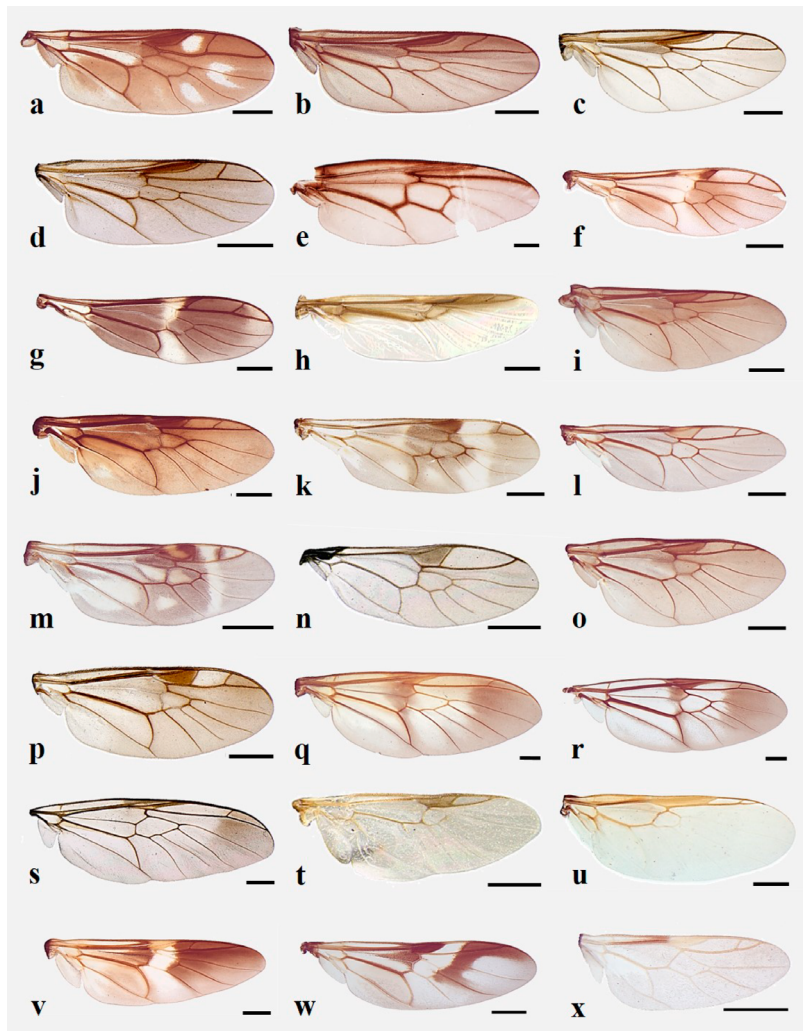


Figure 1. Wings of some genera of Stratiomyidae in Colombia from material examined. Part I. **a.** *Arcuavena*, **b.** *Beridella*, **c.** *Heterachanthia*, **d.** *Oplachantha*, **e.** *Nonacris*, **f.** *Abavus*, **g.** *Acropeltates*, **h.** *Auloceromyia*, **i.** *Chordonota*, **j.** *Cyphomyia*, **k.** *Diaphorostylus*, **l.** *Ditylometopa*, **m.** *Euryneura*, **n.** *Grypomyia*, **o.** *Labocerina*, **p.** *Leucoptilum*, **q.** *Chrysochlorina*, **r.** *Chaetohermestia*, **s.** *Hermetia*, **t.** *Brachycara*, **u.** *Nemotelus*, **v.** *Acanthomyia*, **w.** *Artemita*, **x.** *Brachyodina*. Scale bar: 1 mm.

Himantigera amauroptera Fachin & Hauser, 2018; *H. silvestris* McFadden, 1982 and *H. superba* (Lindner, 1949). Finally, Torres-Toro and Wolff (2019) described the puparium of *Cyphomyia albitarsis* (Fabricius, 1805) reared under laboratory conditions from *Carica papaya* (L) stem (Caricaceae).

The 4606 specimens examined in this work are housed in the following Colombian collections: **CEUA** (Colección Entomológica de la Universidad de Antioquia, Medellín, Antioquia); **IavH-E** (Colección Entomológica del Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Villa de Leyva, Boyacá); **ICN** (Instituto de Ciencias Naturales, Universidad Nacional de Colombia, Bogotá, Cundinamarca); **LEUA** (Colección Entomológica del Laboratorio de Entomología Universidad de la Amazonía, Florencia, Caquetá) **MEFLG** (Museo Entomológico Francisco Luis Gallego, Universidad Nacional de Colombia, Medellín, Antioquia); **MEPB** (Museo Entomológico Piedras Blancas, Guarne, Antioquia); **MPUJ-ENT** (Museo Javeriano de

Historia Natural, Pontificia Universidad Javeriana Entomología, Bogotá, Cundinamarca) and in The United States of America: **USNM** (Department of Entomology, Smithsonian Institution, Washington, DC). All material came from Biological stations, Flora and Fauna Sanctuaries, National Natural Parks, Natural Reserves, rural and semi-urban areas, representing the 97 % of the Colombian administrative departments, and with a temporary coverage from 1940 to 2018. Most specimens were captured as part of the project “Diversidad de Insectos de Colombia” from (IavH) Instituto de Investigación de Recursos Biológicos Alexander von Humboldt and (UAESPNN) Unidad Administrativa Especial del Sistema de Parques Nacionales Naturales de Colombia, and others were collected under universities researches.

The current study aims to display an updated list of the genera of soldier flies known in Colombia so far based on biological collection records and literature, as a broad approach to reveal their fauna, and to eventually stimulate

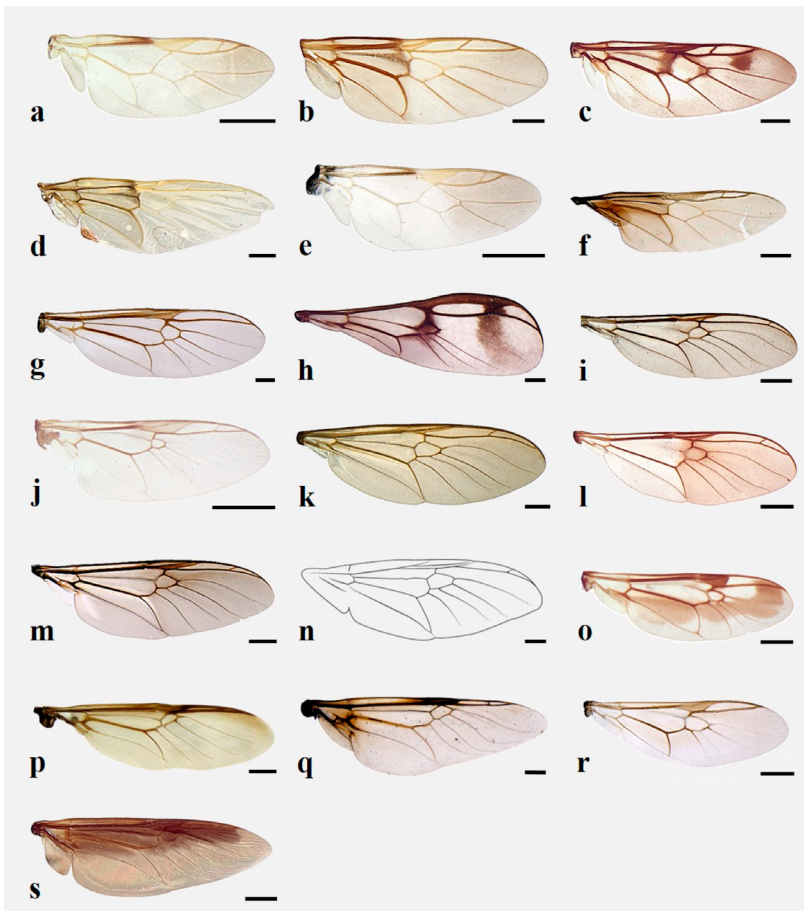


Figure 2. Wings of some genera of Stratiomyidae in Colombia from material examined. Part II. **a.** *Chalcidomorpha*, **b.** *Panacris*, **c.** *Caenacantha*, **d.** *Neochauna*, **e.** *Strobilaspis*, **f.** *Blastocera*, **g.** *Dicranophora*, **h.** *Pseudohistiodroma*, **i.** *Merosargus*, **j.** *Microchrysa*, **k.** *Ptecticus*, **l.** *Acrochaeta* cf. *Himantigera*, **n.** *Sargus*, **o.** *Myxosargus*, **p.** *Promeranisa*, **q.** *Herdiodiscus*, **r.** *Euparyphus*, **s.** *Hoplitimyia*. Scale bar: 1 mm.

the taxonomical study to a specific level for the country, the style for presentation follows Gutiérrez *et al.* 2005. The photographs of wings shown herein were taken with MotiCam 5.0 system attached to Olympus SZ Stereo microscope.

AUTHORS PARTICIPATION

MW designed the investigation. JTT revised entomological material and literature, prepared the draft and the illustrations. MW and DG contributed to the writing of the text and made critical revisions. All authors approved the final manuscript.

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CONFLICT OF INTEREST

The authors have no conflicts of interest to declare.

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TAXONOMIC LIST

Below, the list of the 54 genera recorded in our revision, including the department, respectively locality and altitude where they were collected when were available, some relevant taxonomical and distributional references. Finally, an allusive photograph of the wing for most of them are provided. New genera records for the country are in bold, while asterisks (*) represent new distributional data. Abbreviations: AME - Área de Manejo Especial, PNN - Parque Nacional Natural, RI - Resguardo Indígena, RN - Reserva Natural, SFF - Santuario de Flora y Fauna.

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
Beridinae	1. <i>Arcuavena</i> Woodley, 1995 (Wing Fig. 1a)	Amazonas* Cauca* Huila* Meta* Nariño* Putumayo* Risaralda* Valle del Cauca* Vaupés*	PNN Amacayacu PNN Gorgona PNN Cueva de Los Guácharos PNN Sumapaz RN La Planada PNN La Paya SFF Otún Quimbaya PNN Farallones de Cali PNN Yaigojé Apaporis	5-2050	Bigot 1879; Bezzi 1908; Enderlein 1921; James 1977a; Lindner 1949a; Woodley 1995, 2001; Fachin and Assis-Pujol 2016
	2. <i>Beridella</i> Becker, 1919 (Wing Fig. 1b)	Cauca* Huila*	PNN Munchique PNN Cueva de Los Guácharos	1950-2640	Becker 1919; Enderlein 1921; James 1975; Woodley 1995, 2001
	3. <i>Heteracanthia</i> Macquart, 1850 (Wing Fig. 1c)	Antioquia* Cauca Putumayo*	Valle de Aburrá PNN Gorgona PNN La Paya	330-1600	Macquart 1850; Walker 1854; Giglio Tos 1891; Enderlein 1921; Lindner 1933a; McFadden 1972; Woodley 2001; Torres-Domínguez et al. 2014; Fachin and Assis-Pujol 2016
	4. <i>Oplachantha</i> Rondani, 1863 (Wing Fig. 1d)	Amazonas* Antioquia* Boyacá* Huila* Meta Nariño Putumayo* Risaralda* Valle del Cauca*	PNN Amacayacu Valle de Aburrá, PNN Las Orquídeas, Páramo El Congo, Páramo de Sonsón. Santa María PNN Cueva de Los Guácharos PNN Sumapaz Unknown PNN La Paya SFF Otún Quimbaya PNN Farallones de Cali	150-3000	Rondani 1863; Wiedemann 1828; Macquart 1846; Bellardi 1859; Williston 1888; Enderlein 1921; James 1977a; Woodley 1995, 2001; Fachin and Assis-Pujol 2016
Chiromyzinae	5. <i>Nonacris</i> Walker, 1850 (Wing Fig. 1e)	Caldas* Cundinamarca	Reserva Río Blanco Unknown	2000	Walker 1850; Enderlein 1921; Lindner 1943; James 1975; Pujol-Luz et al. 2001; Woodley 2001; Fachin and Assis-Pujol 2016
Clitellariinae	6. <i>Abavus</i> Enderlein, 1914 (Wing Fig. 1f)	Meta* Vaupés*	PNN Tinigua PNN Yaigojé Apaporis	60-460	Enderlein 1914a; Lindner 1933b, 1949a, 1949b; Woodley 2001
	7. <i>Acropeltates</i> Kertész, 1923 (Wing Fig. 1g)	Amazonas* Risaralda*	PNN Amacayacu PNN Tatamá	150-1315	Kertész 1923, Szilády 1929, James 1936a, Woodley 2001, 2009b, Fachin and Assis-Pujol 2016
	8. <i>Auloceromyia</i> Lindner, 1969 (Wing Fig. 1h)	Magdalena* Guaviare*	PNN Tayrona RNN Nukak	5-180	Lindner 1969; Pimentel and Pujol-Luz 2000; Fachin 2015
	9. <i>Chordonota</i> Gerstaecker, 1857 (Wing Fig. 1i)	Antioquia* Bolívar* Boyacá Magdalena* Meta Vichada*	Sopetrán SFF Los Colorados Muzo (from James, 1940a), SFF Iguaque PNN Tayrona Unknown PNN El Tuparro	5-2600	Wiedemann 1830; Gerstaecker 1857; Wulp 1881; Williston 1888, 1896b; Bellardi 1862; Enderlein 1914b; Lindner 1936; James 1940a; lide 1963; Woodley 2001; Fachin and Assis-Pujol 2016

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
10. <i>Cyphomyia</i> Wiedemann, 1819 (Wing Fig. 1j)		Amazonas*	PNN Amacayacu.	0-3300	Bigot 1876; James, 1940a; Evenhuis and Thompson 1990; Woodley 2001; Fachin and Assis-Pujol 2016; SiB Colombia 2020
		Antioquia	Páramo de Santa Inés, Suroeste Antioqueño, Urabá, Valle de Aburrá		
		Boyacá	Muzo (from James, 1940a), SFF Iguaque		
		Caldas	Anserma, Victoria (from James, 1940a)		
		Caquetá*	All subregions		
		Casanare*	Tauramena		
		Chocó	Andagoya (from James, 1940a), Bahía Solano		
			Isla Fuerte		
		Córdoba*	Unknown		
		Cundinamarca	Bogotá (from James, 1939a)		
		Guainía*	RI Almidón La Ceiba		
		Guaviare*	San José de Guaviare		
		Huila*	PNN Cueva de Los Guácharos		
		Magdalena*	PNN Tayrona		
		Meta*	PNN Sierra de La Macarena		
		Nariño*	RN La Planada		
		Norte de Santander*	Nudo de Santurbán		
Putumayo*	PNN La Paya				
Quindío*	Salento				
Risaralda*	AME Amurrapá, SFF Otún				
	Quimbaya				
Santander*	Cimitarra				
Tolima*	Armero, Líbano				
Valle del Cauca	Western Cordillera, Cali District (from James, 1939a)				
	Bajo Calima, PNN Farallones de Cali, Tuluá,				
Vaupés*	PNN Yaigojé Apaporis				
Vichada*	PNN El Tuparro				
11. <i>Diaphorostylus</i> Kertész, 1908 (Wing Fig. 1k)		Amazonas*	PNN Amacayacu	60-322	Williston 1888; Kertész 1908; James 1939a; Woodley 2001
		Caquetá*	Cartagena del Chairá, Curillo, El Doncello		
		Vaupés*	PNN Yaigojé Apaporis		
12. <i>Ditylometopa</i> Kertész, 1923 (Wing Fig. 1l)		Putumayo*	PNN La Paya	320-330	Kertész 1923; Curran 1934; Woodley 2001
13. <i>Euryneura</i> Schiner, 1868 (Wing Fig. 1m)		Amazonas*	PNN Amacayacu	0-2800	Fabricius 1805; Bellardi 1862; Schiner 1868a, 1868b, Giglio-Tos 1893; Williston 1888; Kertész 1908; Iide 1968; Cole 1969; Woodley 2001; Fachin and Assis-Pujol 2016
		Bolívar*	SFF Los Colorados		
		Caquetá*	El Doncello, San José del Fragua, Valparaíso		
		Cesar*	Serranía del Perijá		
		Meta*	PNN Sumapaz		
		Putumayo*	PNN La Paya		
		Risaralda*	SFF Otún Quimbaya		
Sucre*	RN Sanguaré				
Vichada*	PNN El Tuparro				
14. <i>Grypomyia</i> Kertész, 1923 (Wing Fig. 1n)		Risaralda*	SFF Otún Quimbaya	2050	Kertész 1923; Woodley 2001
15. <i>Labocerina</i> Enderlein, 1914 (Wing Fig. 1o)		Antioquia*	Maceo	30-950	Fabricius 1805; Bellardi 1862; Enderlein 1914b; James 1940a; Woodley 2001, 2009b; Fachin and Assis-Pujol 2016
		Boyacá	Muzo (from James 1940a)		
		Caquetá*	Cartagena del Chairá, Puerto Rico, San José del Fragua, Solano, Valparaíso		
	Chocó*	PNN Los Katíos			
	Putumayo*	PNN La Paya			
16. <i>Leucoptilum</i> James, 1943 (Wing Fig. 1p)		Amazonas*	PNN Amacayacu	60-730	James 1943a; Lindner 1949b; Woodley 2001
		Putumayo*	PNN La Paya		
		Valle del Cauca*	PNN Farallones de Cali		
		Vaupés*	PNN Yaigojé Apaporis		
17. <i>Quichuamyia</i> Brammer, 2005		Amazonas	22 km NW Leticia (from Brammer, 2005)	>150	Brammer 2005; Fachin and Assis-Pujol 2016

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
Chrysochloriniinae	18. <i>Chrysochlorina</i> James, 1939 (Wing Fig. 1q)	Amazonas* Antioquia* Bolívar* Boyacá Caquetá* Cauca* Huila* Magdalena Meta* Putumayo* Sucre* Vaupés* Vichada*	La Pedrera Urabá Antioqueño, Cañón del Río Alicante, Cañón del Río Rayo SFF Los Colorados Muzo (from James 1938b) La Montañita, Milán, Puerto Rico, San Francisco, San Vicente del Caguán, Valparaiso. PNN Gorgona PNN Cueva de Los Guácharos Río Frio (from James 1938b), PNN Tayrona PNN Sumapaz, PNN Tinigua PNN La Paya RN Sanguaré PNN Yaigojé Apaporis PNN El Tuparro	0-2600	Walker 1851; James 1939b; Iide 1966; Woodley 2001; Fachin and Assis-Pujol 2016
	19. <i>Chaetohermética</i> Lindner, 1929 (Wing Fig. 1r)	Amazonas Putumayo*	PNN Amacayacu PNN La Paya	150-330	Lindner 1929; James 1977b; Woodley 2001; SiB Colombia 2020
Hermetiinae	20. <i>Hermetia</i> Latreille, 1804 (Wing Fig. 1s)	Amazonas Antioquia Atlántico Bolívar Boyacá Caldas Caquetá Cauca Cesar Chocó Huila Magdalena Meta Putumayo Quindío Risaralda Santander Sucre Valle del Cauca Vaupés Vichada	PNN Amacayacu Eastern, Middle Magdalena, Southwest, Urabá, Valle de Aburrá, Western. Barranquilla Mompós, SFF Los Colorados SFF Iguaque Anserma All subregions PNN Gorgona San Alberto PNN Los Katíos PNN Cueva de Los Guácharos PNN Tayrona PNN Sumapaz, PNN Sierra de la Macarena, PNN Tinigua PNN La Paya Quimbaya Pereira Cimitarra RN Sanguaré PNN Farallones de Cali, Pance PNN Yaigojé Apaporis PNN El Tuparro	0-2300	Latreille 1804; Woodley 2001; Marshall et al. 2015; Fachin and Assis-Pujol 2016; SiB Colombia 2020
	21. <i>Patagiomyia</i> Lindner, 1933	Unknown	Unknown	Unknown	Lindner 1933a; Woodley 2001; Fachin and Assis-Pujol 2016
Nemotelinae	22. <i>Brachycara</i> Thomson, 1869 (Wing Fig. 1t)	Cauca Magdalena* San Andrés Island	PNN Gorgona Santa Marta Cayo Serrana	0	Thomson 1869; Bezzi 1928; Johnson 1913; James 1953, 1960, 1962, 1966a; Nagatomi 1977; Woodley 2001; SiB Colombia 2020
	23. <i>Nemotelus</i> Geoffroy, 1762 (Wing Fig. 1u)	Antioquia* Atlántico Cundinamarca* Huila* Nariño Putumayo* Risaralda* Valle del Cauca*	Páramo El Congo, Valle de Aburra Barranquilla (from Kertész 1914) PNN Chingaza PNN Cueva de Los Guácharos 10 miles E of Pasto Nariño (from James, 1974a) PNN La Paya SFF Otún Quimbaya PNN Farallones de Cali	330-3000	Geoffroy 1762; Kertész 1914; James 1974a; Rozkošný 1977; Woodley 2001; Fachin and Assis-Pujol 2016; SiB Colombia 2020
	24. <i>Acanthinomyia</i> Hunter, 1900 (Wing Fig. 1v)	Amazonas* Antioquia* Caquetá* Magdalena* Meta* Putumayo* Vichada*	PNN Amacayacu Urabá antioqueño Curillo PNN Tayrona PNN Tinigua PNN La Paya PNN El Tuparro	80-350	Wiedemann 1824, 1830; Macquart 1834; Walker 1854; Hunter 1900; James et al. 1980; Woodley 2001

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
Pachygastrinae	25. <i>Artemita</i> Walker, 1854 (Wing Fig. 1w)	Amazonas* Antioquia* Caldas* Cauca Chocó Magdalena* Meta* Putumayo* Valle del Cauca* Vaupés* Vichada*	PNN Amacayacu Urabá antioqueño Anserma PNN Gorgona Teresita (from James 1971) PNN Tayrona PNN Sierra de La Macarena, PNN Tinigua PNN La Paya PNN Farallones de Cali PNN Yaigojé Apaporis PNN El Tuparro	60-1960	Walker 1854; James 1971; Woodley 2001; Fachin and Assis-Pujol 2016; SiB Colombia 2020
	26. <i>Blastocera</i> Gerstaecker, 1857 (Wing Fig. 2f)	Amazonas*	PNN Amacayacu	150	Gerstaecker 1857; Wandolleck 1897; James et al. 1980; Woodley 2001
	27. <i>Brachydina</i> Lindner, 1949 (Wing Fig. 1x)	Putumayo*	PNN La Paya	330	Johnson 1919, 1920; Lindner 1949b; James 1966a; 1967, 1974b; Woodley 2001; Woodley 2014
	28. <i>Caenacantha</i> Wulp, 1885 (Wing Fig. 2c)	Cundinamarca Risaralda*	Bogotá (From Wulp 1885) SFF Otún Quimbaya	2050	Wulp 1885; Woodley 2001, 2011; Fachin and Assis-Pujol 2016
	29. <i>Chalcidomorphina</i> Enderlein, 1914 (Wing Fig. 2a)	Amazonas* Caldas Caquetá* Meta Putumayo	PNN Amacayacu "Hacienda Pehlke" (from Enderlein 1914c) Victoria El Doncello PNN Tinigua PNN La Paya	160-460	Enderlein 1914c; Johnson 1920; James 1967, 1974b; James et al. 1980; Fachin and Assis-Pujol 2016
	30. <i>Ligyromyia</i> Kertész, 1916	Magdalena	Sierra San Lorenzo	Unknown	Kertész 1916; Lindner 1964; Woodley 2001; Fachin and Assis-Pujol 2016
	31. <i>Neochauna</i> Williston, 1896 (Wing Fig. 2d)	Antioquia*	Maceo	950	Loew 1847; Gerstaecker, 1857; Williston 1896a; James et al. 1980; Martínez 2017; Woodley 2001, 2009b
	32. <i>Panacris</i> Gerstaecker, 1857 (Wing Fig. 2b)	Amazonas* Boyacá* Caquetá* Cauca Chocó Huila* Meta* Putumayo* Vaupés*	PNN Amacayacu SFF Iguaque San Vicente del Caguán PNN Gorgona Teresita (from James et al. 1980) PNN Cueva de Los Guácharos PNN Tinigua PNN La Paya PNN Yaigojé Apaporis	60-2725	Gerstaecker 1857; Kertész 1908; Lindner 1949a, 1949b, 1964; James et al. 1980; Woodley 2001; SiB Colombia 2020
	33. <i>Strobilaspis</i> Lindner, 1949 (Wing Fig. 2e)	Caquetá*	Albania, El Doncello, Valparaíso	283-350	Lindner 1949a, 1949b; James et al. 1980; Wozodley 2001
	34. <i>Vittiger</i> Kertész, 1909	Unknown	Unknown	Unknown	Kertész 1909; Lindner 1969; Xerez and Pujol-Luz 2001; Woodley 2001; Woodley 2009b
Raphiocerinae	35. <i>Dicranophora</i> Macquart, 1834 (Wing Fig. 2g)	Amazonas* Meta* Vaupés*	PNN Amacayacu PNN Tinigua PNN Yaigojé Apaporis	60-460	Wiedemann 1824; Macquart 1834; Williston 1888; James 1943b; Woodley 2001; Pimentel and Pujol Luz 2016
	36. <i>Heptozus</i> Lindner, 1949	Cauca*	PNN Gorgona	30-180	Lindner 1949a; James 1966b; Woodley 2001
	37. <i>Lysozus</i> Enderlein, 1914	Caldas	Unknown	Unknown	Enderlein 1914b; Pimentel and Pujol-Luz 2001
	38. <i>Pseudohistiodroma</i> Pimentel & Pujol-Luz, 2001 (Wing Fig. 2h)	Caquetá*	Florencia	716	Pimentel and Pujol-Luz 2001
	39. <i>Raphiocera</i> Macquart, 1834	Unknown	Unknown	Unknown	Wiedemann 1830; Perty 1833; Macquart 1834, 1846; Walker 1854; Osten Sacken 1886; Wulp 1879; Lindner 1931, 1935, 1949a, 1951, 1957; Pimentel and Pujol-Luz 2001; Woodley 2001; Fachin and Assis-Pujol 2016

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
Sarginae	40. <i>Acrochaeta</i> Wiedemann, 1830	Amazonas* Boyacá* Caquetá* Chocó* Cundinamarca* Huila* Meta* Nariño*	PNN Amacayacu SFF Iguaque Florencia PNN Los Katíos PNN Chingaza PNN Cueva de los Guácharos PNN Sierra de La Macarena, PNN Tinigua RN La Planada PNN La Paya SFF Otún Quimbaya PNN Yaigojé Apaporis	30-3300	Wiedemann 1830; Perty 1833; Bigot 1879; Brauer 1882; Enderlein 1914b; Lindner 1949a; Woodley 2001; Fachin and Amorim 2015
	(Wing Fig. 2l)	Putumayo* Risaralda* Vaupés*			
	41. <i>Himantigera</i> James, 1982 (Wing Fig. 2m)	Amazonas Antioquia* Boyacá Caquetá* Chocó Huila* Magdalena Risaralda*	PNN Amacayacu Valle de Aburrá SFF Iguaque Florencia PNN Utría PNN Cueva de Los Guácharos PNN Sierra Nevada de Santa Marta SFF Otún Quimbaya	663-2795	Lindner 1928, 1949a, 1969; Ma- cquart 1847; Schiner 1868b; Bi- got 1879; Williston 1900; Adams 1903; James and McFadden 1982; Woodley 2001; Fachin and Hauser 2018; SiB Colombia 2020
42. <i>Merosargus</i> Loew, 1855 (Wing Fig. 2i)	Amazonas* Antioquia Bolívar* Boyacá Caldas* Caquetá* Cauca Cesar* Chocó* Cundinamarca* Huila* La Guajira* Magdalena* Meta Nariño Norte de Santander* Putumayo* Quindío* Risaralda* Santander* Sucre Tolima* Vaupés* Vichada*	PNN Amacayacu Eastern, Middle Magdalena, North, Páramo El Congo, Pá- ramo de Santa Inés, Southwest, Urabá antioqueño, Valle de Aburrá, Western. SFF Los Colorados SFF Iguaque Anserma, Manizales All subregions PNN Gorgona, PNN Munchique Serranía del Perijá PNN Los Katíos PNN Chingaza PNN Cueva de Los Guácharos Serranía del Perijá PNN Tayrona PNN Sierra de La Macarena, PNN Sumapaz, PNN Tinigua RN La Planada ANU Los Estoraques, Nudo de Santurbán, PNN Tamá PNN La Paya Salento SFF Otún Quimbaya Betulia, Cimitarra, Vélez RN Sanguaré Armero PNN Yaigojé Apaporis PNN El Tuparro	0-3380	James and McFadden 1971; Woodley 2001; Woodley 2009b; Fachin and Amorim 2015; Fachin and Assis-Pujol 2016; SiB Colom- bia 2020	
43. <i>Microchrysa</i> Loew, 1855 (Wing Fig. 2j)	Amazonas* Antioquia* Bolívar* Caldas* Caquetá* Chocó* Cundinamarca Huila* Magdalena* Meta* Putumayo* Santander* Vaupés*	PNN Amacayacu Middle Magdalena, North, Urabá antioqueño SFF Los Colorados Anserma Albania, Cartagena del Chairá, El Paujil, Florencia, Milán, Puerto Rico, San José del Fragua, San Francisco, San Vicente del Caguán, Valparaíso PNN Los Katíos Monterredondo (from Fachin & Asis-Pujol 2016) PNN Cueva de Los Guácharos PNN Tayrona PNN Tinigua, PNN Sumapaz PNN La Paya Cimitarra PNN Yaigojé Apaporis	30-2600	Loew 1855; Mason 1997; Wood- ley 2001; Fachin & Assis-Pujol 2016	

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References				
44. <i>Ptecticus</i> Loew, 1855 (Wing Fig. 2k)		Amazonas*	PNN Amacayacu	0-3300	Loew 1855; Leal and Oliveira 1979; Woodley 2001; Fachin and Assis-Pujol 2016; SiB Colombia 2020				
		Antioquia	All subregions						
		Bolívar*	SFF Los Colorados						
		Boyacá	SFF Iguaque						
		Caldas	La Merced						
		Caquetá*	Cartagena del Chairá, El Doncello, La Montañita, Milán, San Vicente del Caguán, Valparaíso						
		Cauca	PNN Gorgona, PNN Munchique						
		Cesar*	Serranía del Perijá						
		Chocó	Atrato, PNN Los Katíos, Punta Napú						
		Cundinamarca*	PNN Chingaza						
		Magdalena*	PNN Tayrona						
		Meta*	PNN Sumapaz						
		Nariño*	RN La Planada						
		Norte de Santander*	PNN Tamá						
		Putumayo*	PNN La Paya						
		Quindío*	Quimbaya						
		Risaralda*	PNN Tatamá, SFF Otún Quimbaya						
		Santander*	Cimitarra						
		Sucre	RN Sanguaré						
		Valle del Cauca*	PNN Farallones de Cali						
		Vaupés*	PNN Yaigójé Apaporis						
		Vichada*	PNN El Tuparro						
		45. <i>Sargus</i> Fabricius, 1798 (Wing Fig. 2n)				Amazonas*	PNN Amacayacu	0-3380	James and McFadden 1982; Woodley 2001, 2009b, Fachin and Assis-Pujol 2016; SiB Colombia 2020
						Antioquia	All subregions		
						Bolívar*	SFF Los Colorados		
						Boyacá	SFF Iguaque		
						Caldas	Anserma		
Caquetá*	All subregions								
Cauca*	PNN Gorgona								
Chocó	PNN Los Katíos								
Córdoba*	Montería								
Cundinamarca	PNN Chingaza								
Guaviare*	San José del Guaviare								
Huila*	PNN Cueva de Los Guácharos								
La Guajira*	Riohacha								
Magdalena*	PNN Tayrona, RNSC La Iguana Verde								
Meta	PNN Sierra de La Macarena,								
Norte de Santander*	PNN Sumapaz								
Putumayo*	PNN Tamá								
Quindío	PNN La Paya								
Risaralda*	Anserma, Salento								
Santander	SFF Otún Quimbaya								
Sucre*	Cimitarra, Vélez								
Valle del Cauca*	RN Sanguaré								
Vaupés*	PNN Farallones de Cali								
Vichada*	PNN Yaigójé Apaporis								
	PNN El Tuparro								

(Continúa)

Subfamily	Genus	Departments	Localities	Elevation range (m)	References
Stratiomyinae	46. <i>Euparyphus</i> Gerstaecker, 1857 (Wing Fig. 2r)	Amazonas*	PNN Amacayacu	150-2600	Gerstaecker 1857; Loew 1866; Williston 1885, 1896b, 1901; Osten Sacken 1886; Giglio Tos 1891; Coquillett 1902; Adams 1903; Cole 1912; Cresson 1919; Curran 1927; James 1936b, 1940b; Lindner 1941, 1949b; Steyskal 1951; Quist and James 1973; Wiedemann 1830; Woodley 2001, 2009b
		Antioquia	Yarumal		
	47. <i>Myxosargus</i> Brauer, 1882 (Wing Fig. 2o)	Antioquia*	PNN Amacayacu	5-1800	Brauer 1882; Williston 1888, 1901; Enderlein 1914b; Greene 1918; Curran 1929; James 1942, 1973; James and McFadden 1979; Woodley 2001, 2009b
		Caquetá*	Urabá Antioqueño Cartagena del Chairá, El Doncello, Florencia, La Montañita, San José del Fragua		
	48. <i>Hedriodiscus</i> Enderlein, 1914 (Wing Fig. 2q)	Antioquia*	Northeast, Southwest, Valle de Aburrá	0-2300	Enderlein 1914b; Woodley 2001, 2009b; Fachin and Assis-Pujol 2016; SiB Colombia 2020
		Atlántico*	Barranquilla		
	49. <i>Hoplitimyia</i> James, 1934 (Wing Fig. 2s)	Antioquia*	Bajo Cauca, Middle Magdalena, Southwest	50-1420	Fabricius 1787; Gmelin 1790; Walker 1836, 1849, 1854; Bellardi 1859, 1862; Loew 1872; James 1933, 1934, 1939c; Rondani 1848; James and McFadden 1979; Woodley 2001; Fachin and Assis-Pujol 2016
		Huila*	San Agustín		
	50. <i>Odontomyia</i> Meigen, 1882	Antioquia	Valle de Aburrá	190-1450	James 1936c; Woodley 2001, 2009b; Fachin and Assis-Pujol 2016
		Santander	Cimitarra		
51. <i>Promeranis</i> Walker, 1854 (Wing Fig. 2p)	Meta*	PNN Tinigua	0-290	Macquart 1850; Williston 1888; James and McFadden 1979; Walker 1854; Woodley 2001	
52. <i>Stratiomicrodon</i> Pujol-Luz & Papavero, 1998	Caquetá*	Solano	0-211	Pujol-Luz and Papavero 1998; Woodley 2001; Pujol-Luz, JR. and Pujol-Luz CVA 2014	
Sucre*	RN Sanguaré				
Tribe Stratiomyini	53. <i>Stratiomys</i> Geoffroy, 1762	Unknown	Unknown	Unknown	Geoffroy 1762; Woodley 2001; Fachin and Assis-Pujol 2016
	54. <i>Zuerchermyia</i> Woodley, 2001	Magdalena	Aracataca (from James, 1938)	Unknown	Walker 1854; Gerstaecker 1857; Lindner 1928, 1935; Curran 1932; James 1938; Woodley 2001, 2009b; Fachin and Assis-Pujol 2016; SiB Colombia 2020