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APPENDICES
A. MATERIAL EXAMINED

- Material Examined**
- SYRPHUS WOCKERLII** Thompson
Material examined: Jamaica, Haiti and Dominican Republic: Types.
- ALLOGRAPPYA ANOMA** (Hull)
Material examined: Haiti: Paratype ♀.
- ALLOGRAPPYA ASCIPIUS** (Wockeroth)
Material examined: Haiti: Holotype and 1 topotypic ♀. Dominican Republic: McCoy, El Medio USNM.
- ALLOGRAPPYA FLUKEI** Curran
Material examined: Cuba: Holotype.
- ALLOGRAPPYA PINNIFRATA** (Hull)
Material examined: Jamaica (no material examined).
- ALLOGRAPPYA INSULARIS** Thompson
Material examined: Puerto Rico: Holotype.
- ALLOGRAPPYA LIMBATA** (Fabricius)
Material examined: Puerto Rico: Holotype of *fuscipes* Curran; Mayaguez, 17 February 1933 (Harley) (1 ♂ USNM); Adjuntas, 16 February 1937 (Kenner) (1 ♂ Weems); Maricao State Forest, 3 July 1953 (Ramos) at light (1 ♀ Weems). Virgin Islands: Lectotype of *limbata* Fabricius; St. Croix, 21 February-March 1964 (Pierce) at flowers of *Mangifera indica* (3 ♂ 3 ♀ Weems). Lesser Antilles: Montserrat, March 1910 (1 ♀ USNM); Guilford's Estate, November 1967 (Krauss) (5 ♂ USNM). Guadeloupe: Pointe à Pitre, May 1972 (Sommerer) (1 ♀ USNM). Dominica: Clarke Hall, 21 January-31 March 1965 (Wirth) Malaise Trap (2 ♂ 6 ♀ USNM), 13 February 1965 (Clarke & Clarke) (1 ♀ USNM), 22 March 1964 (Wray) (1 ♂ USNM); 20-27 April 1965 (Gagné) (3 ♂ USNM); South Chilbarr, 8-10 December 1964 (Spangler) (4 ♀ USNM); Grande Savane, 4 Feb. 1965 (Evans) (1 ♂ USNM); Fond Figure's River, 9 February 1965 (Evans) (1 ♀ USNM); 2 miles south of mouth of Layou River, 13 February 1965 (Evans) (1 ♂ USNM); Boiling Lake, 14 April 1965 (Davis) (2 ♀ USNM); Poste Cassie, 12 April 1964 (Roninson) (1 ♀ USNM), 27-30 November 1964 (Spangler) (2 ♀ USNM).
- ALLOGRAPPYA NEOTROPICA** Curran
Material examined: Colombia: Popayan. Holotype. Jamaica: St. Andrew, Clinchans, 5000 ft., January (Bruen) (1 ♀ MCI); Catherine's Peak, south slope, 5 June 1954 (Farr) (1 ♀ USNM).
- ALLOGRAPPYA OBLIQUA** (Say)
Material examined: Numerous specimens from the Neartic and Neotropical Regions. Jamaica: Portland, Hardwar Gap, 4000 ft., 13-26 July 1966 (Hovden & Becker) (4 ♀ CNCI); Hardwar Gap, 10 March 1970 (Wirth & Farr) (1 ♀ USNM); St. Andrew, Newton, 3000 ft., January (Hovden) (1 ♂ MCI). Dominican Republic: Valverde, Esperanza (Marcano) (1 ♂ 2 ♀ USNM); San Cristobal (Marcano) (2 ♂ USNM).
- ALLOGRAPPYA RADIXATA** (Bigot)
Material examined: U. S. A., Florida: ---, (1 ♂ USNM); Key Largo, 21 March 1953 (Weems) at *Psidium* *volcanicum* (1 ♂ 1 ♀ USNM). Bahamas: South Bimini, May 1953 (Conner & Gertsch) (1 ♂ 1 ♀ USNM), 15 April 1964 (Dozier) (1 ♂ Weems). Cuba: Lectotype of *radixata* Bigot; holotype of *cubana* Curran; Baragua, 5-9-38 (Christenson) taken on cabbage (1 ♂ 3 ♀ pupae USNM, 2 ♂ 1 ♀ MCI); S. Jose de las Lajas, 15 June 1950 (Cuba Survey 1303) on *Cleome sinensis* leaf (1 ♀ USNM); 5 km Golguin, 17 June 1950 (Cuba Survey #1029) on *Cleome sinensis* leaf (1 ♂ USNM). Jamaica: St. Ann, Runaway Bay, 1-8 March 1970 (Wirth) Malaise Trap (1 ♂ USNM); Portland, Hardwar Gap, 8 July 1962 (Farr) (1 ♂ 1 ♀); St. Andrew, Hermitage Road, 19 March 1961 (Farr) (1 ♂ 1 ♀); St. Catherine, North Park, 2.2 miles north on Camperdown Road, 11 May 1969 (Woodruff) (1 ♂ Weems). Dominican Republic: Moca (1 ♂ ANNH), Puerto Rico: Mayaguez, July 1932 (Harley) (1 ♀ USNM), Vega Baja, 3 February 1931 (Anderson) (1 ♀ USNM); Rio Piedras (Anderson, Faxon, Mills) (1 ♀ USNM); Guánica, State Forest, 30 June 1955 (Ramos, Maldonado) (1 ♀ USNM). Virgin Islands: Holotype of *venusta* Curran; St. Croix, Lower Love, 21 February 1968 (Pierce) (1 ♀ Weems), 9-11 March 1968 (Pierce) at bloom of *Mangifera indica* (18 ♂ 16 ♀ Weems).
- ALLOGRAPPYA** species A
Material examined: Jamaica: Portland, Hardwar Gap (Hardwar Gap?), July 1963 (Maldonado) (1 ♂ USNM); Hardwar Gap, 31 July 1964 (Farr) (1 ♂ 1 ♀), St. Andrew, near Hardwar Gap, 6 December 1975 (Revel) (1 ♀ USNM).
- PSEUDODOROS CLAVATUS** (Fabricius)
Material examined: Numerous specimens from both Neartic and Neotropical regions. Cuba: Havana (Walker) (2 ♀ USNM), 3 ♂ 3 ♀ LAOR, 1 ♂ Weems; Isla de Pinos, Nueva Gerona, 9 July 1908 (Palmer, Riley) (1 ♀ USNM); Caymans, 14, 22 March (Schwarz) (2 ♂ USNM); Santiago, Hatch 1906 (Espino) (1 ♀ USNM); Santa Clara, San Juan Mountains, January-February 1927 (Bruen) (1 ♂ USNM); Soledad, Cienfuegos, January-February 1927 (Bruen) (1 ♂ USNM); Guantánamo Bay, U. S. Naval Base, January 1965 (1 ♀ Weems); North of Windward Point, Guantánamo Bay, 3 February 1956 (Dozier) (1 ♀ Weems). Grand Cayman: Georgetown, 15-30 March 1965 (Hickinson) (1 ♂ 2 ♀ CNCI). Jamaica: Trelawny, Ducanas, 21-23 August 1966 (Hovden & Becker) (2 ♂ 4 ♀ CNCI); St. Mary, Amotto Bay, March, 25 February 1969 (Wirth) (1 ♂ USNM); Portland, Hardwar Gap, 4000 ft., 13-29 July 1966 (Hovden & Becker) (1 ♂ 4 ♀ CNCI); St. Andrew, Mavis Bank, 10 May 1966 (Dozier) (1 ♂ 1 ♀ Weems); Irish Town, 28 August 1966 (Hovden & Becker) (2 ♂ 0 ♀ CNCI); Golly Rock, Fort Road, sea level, 7 May 1959 (Taylor) (1 ♂ USNM); Kingston, Kingston, April (Johnson) (1 ♂ USNM); Rae Town, 4 March 1906 (Taylor) (1 ♂ USNM); St. Catherine, North Park Estate, 17 May 1969 (Woodruff) (1 ♂ Weems); North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968 (Woodruff) Malaise Trap (1 ♀ Weems). Clarendon, Milk River Bush, 11 March 1970 (Wirth & Farr) (2 ♂ USNM). Haiti: Fort au Prince, Bois Ceradoux, 7-10 September 1934 (Ducasse) (1 ♂ USNM). Dominican Republic: Santiago, 22 March 1919 (Sherman) (1 ♀ Weems). Puerto Rico: Arroyo,
- February 1899 (Buck) (1 ♂ USNM); Aguadilla, January 1899 (Buck) (1 ♂ USNM); Vega Baja, 14 February 1933 (Anderson, Faxon, Mills) (1 ♂ USNM); Mayaguez, 17 May 1932 (Hooker) (1 ♂ USNM), 6 November 1953 (1 ♀ Weems); Punta Rosario, near Isabela, 14 January 1963 (Spangler) (2 ♂ USNM); Rio Piedras, 10-1-26 (Palo) (1 USNM); Lago Comero, Mayaguez, 5 June 1968 (Seigler) (1 ♀ Weems). Virgin Islands: Lectotype of *clavatus* Fabricius; St. Croix, November 1967 (Pierce) (1 ♂ Weems); St. Croix, Science Drive, November 1967 (Pierce) (2 ♀ Weems); St. Croix, South of Airport, 19 October 1967, 29 December 1967 (Pierce) (1 ♂ 6 ♀ USNM). Lesser Antilles: Antigua, June-July (Stoner) (4 ♂ 2 ♀ USNM), St. Johns, 2-3 February 1965 (Evans) (4 ♂ 1 ♀ USNM), Montserrat, 23 April (Hubbard) (1 ♀ USNM). Plymouth, November 1963 (Krauss) (18 ♂ 2 ♀ USNM). Dominica: Clarke Hall, 21 January-31 March 1965 (Wirth) (1 ♂ 5 ♀ USNM), 10 February 1965 (Evans) (1 ♂ USNM), 26 May 1964 (Pinto) (1 ♂ USNM), 11-24 May 1966 (Krauss) (2 ♂ 1 ♀ USNM). Hillsborough, 13 March 1965 (Evans) (1 ♂ USNM); mouth of Layou River, 6 February 1965 (Evans) (2 ♂ 1 ♀ USNM); Cabell Swamp, 3 November 1964 (Spangler) (1 ♂ 2 ♀ USNM); Roseau, October 1967 (Krauss) (1 ♂ USNM); Fond Colet, 5-9 October 1964 (Spangler) (3 ♂ 2 ♀ USNM); Fond Sophie, 2 October 1964 (Spillan) (1 ♂ USNM). Barbados: 4 September 1905 (Buck) (1 ♂ USNM), May 1966 (Pechon) (1 ♀ USNM).
- SALPINGOGASTER BRUNERI** Curran
Material examined: Cuba: Holotype.
- SALPINGOGASTER NIGRA** Schiner
Material examined: About 40 specimens from Costa Rica to Brazil (including syntypes). Jamaica: St. Ann, Ocho Rios, December 1963 (Wood) (1 ♂ CNCI); St. Catherine, North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968, 18-25 February 1970 (Woodruff) Malaise Trap (5 ♀ Weems); Clarendon, Cumberland, 3000 ft., 15-18 December 1919 (Watson) (1 ♂ ANNH).
- SALPINGOGASTER PUNCTIFRONS** Curran
Material examined: U. S. A., Florida: Lake North, 5 December 1928 (1 ♂ ANNH); Palm Beach County, Palm Springs, 17-23 August 1971 (Novak) (1 ♀ USNM); Lake Placid, Archbold Biological Station, 21 January 1964 (Davson) (1 ♂ USNM). Cuba: Holotype of *relucta* Curran; vicinity of Havana (Barbour) (1 ♀ USNM, 5 ♀ Weems); Havana (Barbour) (1 ♂ MCI); Cienfuegos, Soledad (Darlington) (1 ♂ USNM, 1 ♂ MCI); Cienfuegos, Soledad, Liximes Seboruco, 18 August 1930, 15 September 1930 (Down) (1 ♂ 1 ♀ Weems); Soledad, Santa Clara, 25 August 1930 (MCI); Guana, MCI; Guana, MCI; 1-3 June 1915 (1 ♂ USNM); Zaza d. Media, 30 September 1913 (1 ♂ USNM); Oriente, Bafon, 20 March 1936 (1 ♂ USNM).
- OCYPTANUS AEGYLINATUS** (Hull)
Material examined: Cuba: Holotype. Jamaica: Portland, Hardwar Gap, 25 March 1962 (Farr) (1 ♂ USNM).
- OCYPTANUS IRIS** Austen
Material examined: Jamaica: Holotype; Portland, Hardwar Gap, 5 July 1962 (Farr) (1 ♀ USNM).
- OCYPTANUS JACTATOR** (Loew)
Material examined: U. S. A., Florida: Monroe County, Big Pine Key, 10 April 1970 (Wirth) Malaise Trap (1 ♀ USNM). Cuba: Lectotype: Santiago de las Vegas, Bahamo, 23 February 1931 (Otero) (1 ♂ ANNH); Yavoco, 2 August 1944 (Matos) (1 ♂ ANNH); L. Castellanes, Mayaj, 23 February 1951 (Otero) (1 ♂ ANNH).
- OCYPTANUS SUPERBUS** Thompson
Material examined: Jamaica: Holotype.
- OCYPTANUS CAPITATUS** (Loew)
Material examined: Cuba: Syntype of *capitatus* Loew, holotype of *carolina* Curran; vicinity of Havana (Barbour) (1 ♂ MCI); Santiago de las Vegas, Havana, 16-21 April (Acuña) (1 ♂ ANNH); Soledad, 19 December 1904 (1 ♀ USNM). Puerto Rico: Mayaguez, 3 March 1912 (Hunter) (1 ♀ USNM), 26 July 1915 (van Swaluwenberg) (1 ♂ USNM), 9 May 1939 (Plank) (1 ♂ USNM); Comerio, 10 August 1933 (Johnson) (1 ♂ USNM); Alibonito, 1-3 June 1915 (1 ♂ USNM). Virgin Islands: St. Croix, 6 July 1963 (Down & Boyd) (2 ♂ USNM). Lesser Antilles: Dominica: Roseau, 22, 25 June 1911 (1 ♂ ANNH, 1 ♀ USNM).
- OCYPTANUS ANTIPIATES** (Walker)
Material examined: Numerous specimens from Florida and the Neotropics. Cuba: Syntypes of *scutellatus* Loew, holotype of *fulviventris* Bigot; San Diego de las Baños (1 ♂ USNM); Cienfuegos, Soledad, January-February 1927 (Bruen) (1 ♂ USNM); 1 ♀ USNM); Mina Carlotia, Trinidad Mountains, 19 March 1925 (Salt) (1 ♀ USNM); Aguada Pua., February 1915 (1 ♂ USNM); Santa Clara, San Juan Mountains, January-February 1927 (1 ♀ MCI). Jamaica: St. Catherine, North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968, 12 May 1969, 18-25 February 1970 (Woodruff) Malaise Trap (8 ♀ USNM, Weems); Trelawny, Good Hope, 22 August 1966 (Hovden) (2 ♀ CNCI). Dominican Republic: --- (1 ♂ 1 ♀ USNM); San Francisco Mountains, September 1905 (Buck) (1 ♀ USNM).
- OCYPTANUS CYLINDRICUS** (Fabricius)
Material examined: Bahamas: South Bimini, May-August 1950-1951 (Vosler, Bindsel) (12 ♂ 10 ♀ ANNH), 17 December 1953 (Radler) (1 ♂ ANNH); Andros Island, Fresh Creek, 23 April 1953 (Hayden, Giovannioli) (2 ♀ ANNH); Exuma Cay, Stockard Cay, 13 January 1953 (Hayden) (1 ♀ ANNH). Cuba: Syntype of *conformis* Loew. Jamaica: Trelawny, Ducanas, 21-23 August 1966 (Hovden & Becker) (1 ♀ CNCI); Baron Hill, 16 March 1931 (Hull) (9 ♀ ANNH, Weems). Haiti: Fort-au-Prince, 30-31 December 1932 (1 ♀ Weems); Fort-au-Prince, Bois Carteaux, 7-10 September 1934 (Ducasse) (1 ♂ USNM). Dominican Republic: --- (1 ♀ USNM); San Francisco Mountains, September 1903 (Buck) (1 ♀ USNM); North Outside of Ponderosa, 24 March 1967 (Marcano) (1 ♀ USNM). Puerto Rico: Holotype of *wockerlii* Telford; Conazo, 20 August 1953 (Medina) (1 ♂ USNM); Mayaguez (Powers) (1 ♀ USNM), 18, 20 May 1914 (van Swaluwenberg) (1 ♂ 1 ♀ USNM), 13-23 April 1954 (Maldonado) (1 ♂ USNM), 17 March 1933 (Harley) (1 ♀ USNM); Mona Island, Las Caobas, 29 October 1955 (1 ♀ USNM); Mona Island, 17-23 April 1954 (Maldonado) (1 ♀ USNM), 21-30 July 1944 (Ferreir) (1 ♂ 1 ♀

AMMI) Dorado, 3 July 1934 (1 ♀ USNM); Santurce, 14 July 1923 (Anderson) (1 ♂ USNM); Nancy Air Force Base, 27 November 1955 (Crosby) ♀ USNM; Maricao Forest, 2-3000 ft., 30 May 1938 (Farlington) (2 ♂ USNM); Virgin Islands: Lectotype of *cylindrica* Fabricius; St. Thomas, 25 February 1925 (1 ♀ Weems); St. Croix; Wm. Pond, November 1930 (Beatty) (1 ♀ USNM); San Juan, 19 November 1967 (Piercel) (♂ 1 ♀ Weems); Scenic Drive, 22 February 1968 (Piercel) (1 ♀ Weems); Butberg, 10 February 1968 (Piercel) (2 ♀ Weems). Lesser Antilles: Montserrat, 17 January 1938 (Fernald) (2 ♂ 1 ♀ USNM); Nevis, Nevis Park, 600 ft., 1 April 1956 (Clarke) (1 ♀ USNM); Dominica: Clarke Hall, 8-31 January 1965 (Wirth) Malaise Trap (3 ♀ USNM), 20-28 February 1965 (Evans) (1 ♂ USNM), Springfield, November 1967 (Krauss) (1 ♀ USNM); 1 mile north of Mahout, 4 April 1964 (Piercel) ♀ USNM.

OCYPTANUS DIMIDIATUS (Fabricius)

Material examined: Numerous specimens from Florida and Texas and the Neotropics. Cuba: Syntype of *latiusculus* Loew; Baker (1 ♀ USNM); Baragua, 8 November 1930 (Christenson) feeding on apple *malilla* (1 ♂ USNM); San Vicente, Pinar del Rio, 26 July-5 August 1939 (Farson) (1 ♂ USNM); VITALAS, Pinar del Rio, 27-31 August 1951 (Vucite) (1 ♂ AMNH). Jamaica: Trelawny, Good Hope, 8 August 1966 (Hosden) (1 ♀ CNC); Trelawny, near Duncan, beside Highway, 18 November 1966 (Hosden) (1 ♀ USNM); St. Ann, Runaway Bay, 1-8 March 1970 (Wirth) (1 ♂ USNM); Kingston, Kingston, October 1950 (Krauss) (1 ♂ USNM); St. Catherine, Morley Park, 2.2 miles north on Campedown Road, 9-19 November 1968, 14-17 May 1969, 18-25 February 1970 (Woodruff) Malaise Trap (2 ♂ 2 ♀ USNM, Weems). Clarendon, Milk River bath, 11 March 1970 (Wirth & Farr) (1 ♂ USNM); Montserrat Estate, 21 June 1959 host *Silpha* *flava* on sugar cane (1 ♂) pupa USNM. Haiti: --- (1 ♂ USNM). Dominican Republic: San Lorenzo, 24-25 June 1915 (1 ♀ AMNH). Puerto Rico: Mona Island, 20 July 1944 (Fevrer) (1 ♀ AMNH); Mayaguez, 24-29 July 1914 (1 ♀ AMNH), 6, 15 October 1933 (2 ♂ 1 ♀ Weems), 27 April 1932 (Hosner) (1 ♂ 2 pupae USNM), 13 February 1934 (van Duzend) (1 ♂ USNM); Culey, 20-31 May 1914 (1 ♀ AMNH); San Juan, 19 January 1965 (Dodge) (2 ♀ Weems); Cerro Cosdo, 18 February 1967 (Woodruff) (1 ♀ Weems); Rio Piedras, 14 May 1912 (Johnston) reared from Java feeding on apple on *Macropis quitanaensis* (1 ♂ USNM), 23 August 1912 (Evans) feeding on *Silpha quadripunctata* on sugar cane (1 ♂ USNM); Guayama, 24 December 1933 (Milla) (1 ♂ USNM); Barcelona, 17 January 1933 (Anderson, Milla) (1 ♂ USNM); Pajarito, February 1959 (Hosner) (1 ♂ USNM); La Jara, 1 June 1949 (Pilsch) feeding on scale on guava leaves (2 ♂ USNM). Virgin Islands, St. Thomas, 2-8 (Busck) (1 ♂ USNM); St. Croix, Sweet Bottom, Scenic Drive, 22 February 1966 (Piercel) (1 ♀ Weems). St. Croix, 27 February 1967 (Piercel) (1 ♂ USNM). Lesser Antilles: Antigua, Orange Valley, 17 August 1931 (Risluk, Cooley) (1 ♂ USNM); Montserrat, Cane's Soufriere, November 1967 (Krauss) (1 ♀ USNM). Plymouth, November 1967 (Krauss) (2 ♂ 4 ♀ USNM). Dominica: Clarke Hall, 8 January-21 March 1968 (Wirth) (12 ♂ 30 ♀ USNM), 27-30 January 1965 (Clarke & Clarke) (2 ♀ USNM), 24 February 1964 (Bray) (1 ♀ USNM), 29 March 1964 (Robinson) (1 ♀ USNM), 13 April-3 May 1966 (Krauss) (1 ♂ 1 ♀ USNM), 11-21 May 1966 (Eitzinger) (16 ♂ 5 ♀ USNM), 12 October-16 December 1964 (Spangler) (1 ♂ 18 ♀ USNM); Cassada Garden, 19 February 1964 (Bray) (1 ♂ 3 ♀ USNM); Cabrit Swamp, 3 November 1964 (Krauss) (1 ♀ USNM); Roseau, October 1967 (Krauss) (2 ♀ USNM); Springfield, November 1967 (Krauss) (1 ♀ USNM); Anne Aulneau, 10 October 1964 (Spangler) (1 ♂ USNM); Melville Hall Airport, 26 March 1966 (Krauss) (1 ♂ USNM); Fond Sophie, 7 October 1964 (Spillman) (1 ♂ 3 ♀ USNM); Port Chacof, 12-14 October 1964 (Spillman) (1 ♀ USNM); Grande Savane, 30 January 1965 (Clarke & Clarke) (1 ♀ USNM); d'leau Gommier, 27 April 1964 (Piercel) (1 ♀ USNM); Mallett Gutler, near Clarke Hall, 11 April 1964 (Piercel) (1 ♀ USNM); Trafalgar, 18 September 1964 (Spillman) (1 ♀ USNM); South Cricera, 18 April 1964 (Piercel) (1 ♀ USNM), 16 July 1965 (Anderson) (1 ♀ USNM), 8-10 December 1964 (Spangler) (9 ♀ USNM). St. Lucia, La Penne, 19 August 1964 (Robinson) (1 ♀ USNM). St. Vincent, Kingston, October 1963 (Krauss) (2 ♂ 3 ♀ USNM), Barbados, May 1966 (Hosner) (2 ♂ 3 ♀ USNM). Grenadines, Bequia, Fort Elizabeth, 26 September 1967 (Krauss) (1-2 ♀ USNM). Grenada, St. Georges, August 1910 (Allen, Busck) (2 ♀ USNM).

OCYPTANUS FASCIATUS Rowler

Material examined: Dominican Republic: San Francisco Mountains, 6, 15 September 1905 (Busck) (2 ♀ USNM). Puerto Rico: Hoya, 10 March 1935 (Collar) (1 ♂ Weems); Ballcon, 22 February 1915 (Peus) (1 ♂ USNM).

OCYPTANUS ORNATIFES (Cresson)

Material examined: Puerto Rico: Holotype.

OCYPTANUS CUBANUS (Hull)

Material examined: U. S. A., Georgia, Liberty County, St. Catharines Island, 18-21 September 1972 (Thompson) (1 ♀ USNM, AMNH). Florida: Holotype of *calypso* Hull; Highlands Hammock State Park, 23 March 1952, 24 December 1951 (Weems) (♂ 1 ♀ USNM); Highlands County, Archbold Biological Station, 14 April 1963 (Hosner) (1 ♂ USNM). Cuba: Holotype of *cubanus* Hull.

OCYPTANUS VIVIPARICORNIS (Twinn)

Material examined: Puerto Rico: Holotype; Bayamon, 15 November 1937 (San Juan #7064) (1 ♀ USNM).

OCYPTANUS ORIEL (Hull)

Material examined: Dominican Republic: Holotype.

OCYPTANUS RIGENS (Cresson)

Material examined: Puerto Rico: Holotype; Caguas, 4 September 1903 (Medina) (1 ♀ Weems); Mayaguez, 1 August 1914 (Van Duzend) (1 ♀ USNM).

OCYPTANUS SAGITTIFERUS (Austen)

Material examined: Jamaica: Holotype; St. Andrew, Second Breakfast Spring, 26 August 1854 (Farr) (1 ♀ USNM); Trelawny, near Quick Step, 13 December 1975 (Hewell) (1 ♀ USNM).

OCYPTANUS species b

Material examined: Cuba: Cienfuegos, Soledad. Puerto Rico.

OCYPTANUS LINEATUS (Macgarratt)

Material examined: Jamaica: Trelawny, 4 miles east of Falmouth, 4 May 1957 (Farr) (1 ♂ USNM); Portland, Hardwar Gap, 13 August 1961 (Farr) (1 ♀ 1 ♂).

OCYPTANUS MYZATUS (Loew)

Material examined: Cuba: Lectotype, Jamaica: Manchester, Grove Place, 24 June 1960 (Farr) (1 ♂ USNM); .5 miles west of Grove Place, 25 June 1960 (Farr) (1 ♀ 1 ♂).

OCYPTANUS FERRUGINUS Thompson

Material examined: Puerto Rico: Types.

OCYPTANUS PARVICORNIS (Loew)

Material examined: U. S. A., Florida, lig. Vice Key, 19-20 May 1974 (Hosner) (1 ♀ USNM, CNC); Paradise Key, Everglades National Park, 23 March 1954 (Krombein) (1 ♀ USNM). Cuba: Lectotype of *parvicornis* Loew; Habana, Santiago de las Vegas, 20 April 1931 (Hosner) (1 ♂ USNM). Jamaica: Trelawny, Duncans, 2 August 1966 (Hosden & Becker) (1 ♂ CNC). Puerto Rico: ---, 5 May 1950 (1 ♂ USNM); Santurce, 20 June 1932 (Anderson, Faxon, Miller) (1 ♂ 2 ♀ USNM); Mayaguez, 16 July 1933 (1 ♀ USNM), April 1930 (1 ♂ 1 ♀ Weems); Nancy Air Force Base, 15 November 1959 (1 ♀ USNM); Culey, Henry Barracks, 12-19 March 1969 (Medina) (3 ♀ USM); El Verde, 4, 7, 12 December 1968, 27 October 1968 (Welford) Malaise Trap (4 ♀ USM); Viques, 2 December 1968 (Welford) Malaise Trap (1 ♀ USM); Coraco, 8 November 1966 (Welford) Malaise Trap (1 ♀ USM); Corosal, 18, 20 January 1969 (Welford) Malaise Trap (1 ♂ 2 ♀ USM); Rio Piedras, January 1960 (Holcott) (1 ♀ USM); Atoll, Camalache Forest, 22, 13 February 1969 (Welford) Malaise Trap (1 ♀ USM); Jajuya, December 1935 (Bauer) (1 ♂ AMNH); Coamo, 6 June 1932 (Blanca) (1 ♀ Weems); Adjuntas, 16 February 1933 (Head) (1 ♀ Weems); Ponce, December 1932 (Hosner) (1 ♂ Weems). Virgin Islands, St. Croix, 27 November 1967 (Piercel) (1 ♀ Weems).

OCYPTANUS DECEPTUS (Cresson)

Material examined: Puerto Rico: Holotype; Mayaguez (Tower) (1 ♂ USNM); Rio Piedras, 24 July 1932 (Alvarez) (2 ♂ USNM); La Jara, 1 June 1949 (Pilsch) reared from scales on guava leaves (1 ♂ pupae USNM). Virgin Islands, St. Thomas, 21 January 1962 (Spangler) (1 ♀ USNM).

OCYPTANUS HYACINTHINA (Hull)

Material examined: Cuba: Holotype.

OCYPTANUS DENDRE (Hull)

Material examined: Jamaica: Trelawny, Duncans, 23 August 1966 (Hosden & Becker) (1 ♀ CNC); St. Ann, Runaway Bay, 1-8 March 1970 (Wirth) Malaise Trap (1 ♀ USNM); St. Andrew, Cinchona, 5 August 1926 (Kowdy) (1 ♂ USNM); St. Catherine, Morley Park, 2.2 miles north on Campedown Road, 9-19 November 1968, 14-17 May 1969 (Woodruff) Malaise Trap (2 ♀ Weems).

OCYPTANUS species A

Material examined: Lesser Antilles, St. Vincent (Watts) (larvae eating the cassava mealy bug (1 ♂ 4 ♀ USNM).

OCYPTANUS BROMLEYI Cresson

Material examined: Cuba: Holotype.

OCYPTANUS COSTATUS (Fav)

Material examined: Numerous specimens from southeastern United States. Cuba: Soledad, 5 June 1910 (1 ♂ AMNH).

OCYPTANUS MEDINA (Welford)

Material examined: Puerto Rico: Holotype.

OCYPTANUS MARTORELLI (Welford)

Material examined: Puerto Rico: Types.

TOXOMERIS ARDUS (Hull)

Material examined: Cuba: Holotype; Havana (Baker) (1 ♂ USNM); vicinity of Havana (Barbour) (1 ♀ Weems); 7 kilometers north of Vinales, 18-22 September 1913 (1 ♀ AMNH); Pinar del Rio, 9-14 September 1913 (1 ♀ Weems, 1 ♀ AMNH); Taza O. Media, 30 September 1913 (1 ♀ Weems); Guanay, 24-26 September 1911 (1 ♀ Weems).

TOXOMERIS ANCIENSIS (Loew)

Material examined: U. S. A., Florida, the Keys (CNC). Cuba: Lectotype of *anciensis* Loew; Aguas Pas., February 1915 (1 ♂ USM); Cienfuegos, Soledad, February-February 1927 (Brue & Brue) (2 ♀ USNM); Santa Clara, San Juan Mountains, January-February 1927 (Brue & Brue) (2 ♀ USNM); Guantanamo, 10 February 1914 (Spillman) (2 ♀ Weems). Grand Cayman: Georgetown, 15-20 March 1965 (Holmbeck) (1 ♂ CNC). Jamaica: Montego Bay, 6 March 1912 (Johnson) (6 ♂ USNM, Weems); Trelawny, Bacon Hill, 23 March 1931 (Hull) (1 ♂ USNM). St. Ann, Moneague, 23 January (Brooks) (1 ♂ CNC); February (Brooks) (1 ♂ Weems); Ocho Rios, 20-24 August 1934 (Farlington) (1 ♀ CNC); Runaway Bay, stream bed, February 1969 (Wirth) (2 ♀ USNM); Runaway Bay, 1-8 March 1969 (Wirth) (3 ♂ 3 ♀ USNM). St. Mary, Annotto Bay, 25 February 1959 (Wirth) (2 ♂ USNM). Portland, Port Antonio, April 1891 (Johnson) (4 ♂ 1 ♀ USNM). (Wirth) (1 ♀ Weems), 17 February 1955 (Heinen) (1 ♂ Weems); Hardwar Gap, 10 March 1970 (Wirth & Farr) (1 ♀ USNM), 16 December 1972 (Fock & Peck) (1 ♀ CNC); Hardwar Gap, 4000 ft., 13-19 July 1968 (Hosden & Becker) (5 ♀ 9 ♀ CNC). St. Thomas, Bath, about 600 ft., 2-4 January 1920 (Watson) (1 ♂ Weems); Yallahs Valley, Blue Mountains, 27 February 1911 (Grossbeck) (1 ♂ Weems). St. Andrew, Icinn Tom, 28 July 1966 (Hosden & Becker) (1 ♂ 2 ♀ CNC); Newton, 3000 ft., January 1912 (Hosner) (1 ♀ Weems); 6 miles north of Mavis Bank, 1-2 June 1966 (Dozier) (3 ♂ Weems); Hardwar Gap, Hollywell Cabin, 16 February 1970 (Woodruff) (1 ♂ 1 ♀ Weems). Kingston, Kingston, April 1891 (Johnson) (1 ♀ Weems), October 1930 (Krauss) (1 ♀ USM), 10 May 1903 (Grubb) (1 ♂ USNM); Liguanea Plain, November-December 1911 (Brue) (2 ♀ USM). St. Catherine, Morley Park, 2.2 miles north on Campedown Road, 9-19 November 1968, 10-17 May 1969, 16-25 February 1970 (Woodruff) Malaise Trap (12 ♂ 12 ♀ Weems). Manchester, Mizpah, 5 August 1966 (Hosden) (1 ♀ CNC). Westmoreland, 5 miles east of Negill, 13 March 1970 (Wirth & Farr) (1 ♀ USNM). Haiti: Aux Cayes, 14-20 March 1922 (1 ♂ Weems, 1 ♀ USNM); --- (1 ♂ USNM). Dominican Republic: Higueras, 12 April 1913 (Johnson) (1 ♂ USNM); ---, 20 September (Busck) (1 ♂ USNM). Puerto Rico: Mayaguez, January 1899 (Busck) (1 ♂ 1 ♀

USNM, 27 January 1912 (Hooker) (1 ♂ USNM), 14 March 1931 (Harley) (1 ♂ USNM), 13 April 1933 (Harley) (1 ♀ USNM), 21, 23 June 1935 (1 ♂ USNM), Arroyo, February 1899 (Busck) (1 ♀ USNM); Fajardo, February 1899 (Busck) (2 ♀ USNM); Aguadilla, January 1899 (Busck) (1 ♂ 2 ♀ USNM); Culebra, February 1899 (Busck) (1 ♂ 1 ♀ USNM); Vieques Island, February 1899 (Busck) (1 ♂ USNM); Pagan, 27 May 1923 (Stannard) (1 ♂ USNM); Arceibo, 17 February 1923 (Anderson) (1 ♀ USNM), 24-26 June 1925 (1 ♀ Weems); El Yunque, 20-22 March 1954 (Maldonado) (1 ♂ USNM, 2 ♂ 1 ♀ Weems); Jayuya, 6 January 1955 (1 ♂ Weems); Adjuntas, 8-11 June 1915 (1 ♂ Weems); Alonzo, 10 February 1925 (1 ♂ Weems); Loquillo National Forest, 17 February 1925 (1 ♀ Weems); San Juan, 11-14 February 1924 (1 ♂ Weems); Corozal, 1 January 1920 (Holcott) (1 ♀ Weems); Novotas, 2 January 1920 (Holcott) (1 ♂ Weems); Adjuntas, Guillermo Peak, 13 February 1954 (Maldonado, Medina) (1 ♂ 2 ♀ Weems); Vasco-Lares Road, kilometer 29, 26 January 1954 (Maldonado, Medina) (1 ♂ 2 ♀ Weems); Mariatico State Forest, 5 July 1953 (Holcott) (1 ♂ 1 ♀ Weems); Mariatico Insular Forest, 30 April 1953 (Ramos) (1 ♀ Weems); Lesser Antilles: Montserrat, Plymouth, 17 February 1937 (Danforth) (1 ♀ MCG); Gage's Soufriere, November 1957 (Krauss) (1 ♀ USNM); Guadeloupe, Tole, June 1937 (Danforth) (1 ♂ MCG); Montserrat, Clarke Hall, 8-31 January 1965 malaise trap (Wirth) (2 ♂ 5 ♀ USNM), 16 February 1965 (Wirth) (2 ♂ USNM), 4 February-22 March 1964 (Bray) (5 ♂ 5 ♀ USNM), 21 March 1965 (Davies) (2 ♀ USNM), 11 April 1964 (Pinto) (1 ♂ USNM), 20 April-3 May 1966 (Gagné) (3 ♂ 2 ♀ USNM), 11 May-6 June 1966 (Steykai) (1 ♂ 3 ♀ USNM), 5-11 November 1964 (Spangler) (2 ♂ USNM); Neillville Hall Airport, 26 March 1966 (Gagné) (1 ♂ USNM); Ed. Huet Juan, 20 September 1965 (Jackson) (1 ♂ USNM), 5 miles west of Point Lolo, 25 January 1965, at light (Wirth) (1 ♂ USNM); Springfield, November 1967 (Krauss) (1 ♂ USNM); St. George, C'raque, 26 October 1967 (Krauss) (1 ♂ USNM); Roseau, October 1967 (Krauss) (1 ♂ USNM); La Plaine, 29 October 1966 (Gorney) (1 ♀ USNM); Spratcliffe Estate, 10 August 1965 (Jackson) (1 ♂ USNM); near Clarke Hall, 10-11 October 1966 (Gorney) (1 ♂ 1 ♀ USNM); Triafoage Falls, 1200 ft., 5-6 April 1966 (Gagné) (2 ♂ 1 ♀ USNM); 1.5 miles east of Toubare, 3 November 1966 (Gorney) (1 ♂ USNM); Ane Bouleau, 10 October 1964 (Spangler) (1 ♂ 3 ♀ USNM); South Chiltern, 8-10 December 1964 (Spangler) (1 ♀ USNM); Fond Figure River, 400 ft., 25 January 1965 (Wirth) (1 ♀ USNM), 29 April 1966 (Gagné) (1 ♂ USNM); Sylvanus, 10 January 1965, grassy marsh (Wirth) (1 ♀ USNM), November 1967 (Krauss) (1 ♂ USNM); Freshwater Lake, 21 January 1965 (Wirth, Clarke & Clarke) (9 ♂ 2 ♀ USNM), 16 February 1965 (Wirth) (1 ♀ USNM), 14 April 1964 (Pinto) (1 ♂ 2 ♀ USNM), 23 May 1966 (Steykai) (1 ♂ USNM), 26 August 1965 (Jackson) (2 ♀ USNM), 13 October 1964 (Spangler) (1 ♂ USNM), 5-8 November 1964 (Gorney) (1 ♂ USNM); Point Casse, 12 October-23 November 1964 (Spangler) (6 ♂ 27 ♀ USNM); 2.5 miles west of Point Casse, 27 January 1965, at light (Wirth) (1 ♀ USNM); 2 miles northwest of Point Casse, 13 April 1965 (Davis) (1 ♀ USNM); .5 miles east of Point Casse, 27 January 1965 (Wirth) (1 ♂ USNM), 2.5 miles east of Point Casse, 16 January 1965 (Clarke & Clarke) (1 ♂ USNM); 2 miles east of Point Casse, 8 April 1966 (Gagné) (3 ♂ 1 ♀ USNM); d'Anno Complex, 1700 ft., 15 February 1965 (Wirth) (1 ♀ USNM), 13 May 1966 (Steykai) (1 ♂ 1 ♀ USNM), 26 May 1966 (Gagné) (1 ♂ 1 ♀ USNM). St. Vincent, Kingstown, 12 October 1967 (Krauss) (1 ♂ USNM).

TOXOMERUS MARIQUETI (Millston)
Material examined: Dominican Republic: Lacotype of *Aerobes* *Calliobas*: San Cristobal, Mani, Villo Altagracia Sec. Maná de Paila, 27 February 1966 (Marceno) (1 ♂ USNM). Puerto Rico: holotype of *infimus* Cresson; Capoes: 28-29 May 1915 (1 ♀ AMNH).

TOXOMERUS BUSCKI Thompson
Material examined: Dominican Republic: Holotype.

TOXOMERUS CURVIS (Walker)
Material examined: Bahamas(?) - see text.

TOXOMERUS DIFFICILIS (Cresson)
Material examined: Cuba: Buenos Aires, Trinidad Mountains, 17-23 June 1939 (Ferguson) (1 ♂ 1 ♀ CMC); Jamaica, St. Catherine, Worth Park, 2.2 miles north on Campdown road, 9-19 November 1968 malaise trap (Woodruff) (1 ♂ USNM). Puerto Rico: holotype of *difficilis* Cresson; Mona Island, 29 June 1944 (Howell) (1 ♂ AMNH); Alonzo, 21 April 1935 (1 ♂ Weems), 1-3 June 1935 (1 ♀ Weems); Palmer, 20 February 1935 (Sunbri) (1 ♀ Weems); Roney Air Force Base, 29 May 1959 (1 ♂ USNM); Castagne, 8-11 February 1969 (Telford) (1 ♂ USNM); Maricao, 23 May 1933 (Harvey) (1 ♂ USNM); Caraballo, 24 March 1944, on leaves of Tobacco (Faxon, Hills & Anderson) (1 ♂ USNM).

TOXOMERUS DISPAR (Fabricius)
Material examined: Numerous specimens from both Neartic and Neotropical regions. Cuba: Havana, January-February 1915 (1 ♀ USNM); Aguada Pan., February 1915 (1 ♂ 2 ♀ USNM); Vicinity of Havana (harbour) (1 ♂ USNM), 3 ♂ USNM); Soledad, 15 January 1927 (Rues) (4 ♂ 1 ♀ USNM); Soledad, Cienfuegos, January-February 1927 (Rues) (1 ♂ USNM); Baragua, 25 May 1930 (Christensen & Loftin) (1 ♂ MCG); Pinar del Rio, 9-24 September 1931 (1 ♀ Weems). Gran Cayman, Georgetown, 15-30 March 1965 (McIntosh) (1 ♀ CMC). Jamaica: St. Ann, Monseigneur, February (Brooks) (1 ♂ USNM); St. Andrew, Hardwar Gap, 16 December 1972 (Freck & Peck) (3 ♂ 3 ♀ CMC); St. Catherine, Worth Park, 2.2 miles north on Campdown Road, 9-19 November 1968 & 18-25 February 1970 malaise trap (Woodruff) (5 ♂ 3 ♀ Weems); Manchester, Luncheon District, Hardsville, 2350 ft., 15 January 1920 (Watson) (1 ♂ AMNH); Monseigneur Estate, 18 February 1934 (Bennett) (1 ♂ USNM); Kingston, October 1950 (Krauss). Haiti: Cap-Haïtien, 7 January 1922 (1 ♂ AMNH). Dominican Republic: Villa Rivas, 12-22 June 1915 (1 ♂ USNM); Sanchez, 22-27 May 1915 (1 ♂ Weems); La Vega, Valle del Rio, 26 December 1955 (Maldonado) (5 ♂ 3 ♀ USNM); Troujillo, Colonia Sanja, 26 December 1955 (Maldonado) (1 ♀ USNM); La Vega, Pons. Nouel-Constanza Road, 2600 ft., 27-28 December 1955 (Maldonado) (1 ♂ USNM). Puerto Rico: Aguadilla, January 1899 (Busck) (1 ♂ 2 ♀ USNM); Recife, 17 February 1933 (Anderson) (1 ♂ 1 ♀ USNM); Aguadilla Forest, Highway 191, kilometer 13.8, 1550 ft., 30 December 1962 (Spangler) (2 ♂ 1 ♀ USNM); Pueblo Viejo, 29 July 1932 (Anderson & Miles) (1 ♀ USNM); Barro Colorado, March 1937 (Olson) (1 ♀ Weems); Cartagena Lagoona, 20 January 1954 (Maldonado) (1 ♂ 2 ♀ Weems); Alonzo, 21 April 1915 (Johnson) (1 ♀ Weems); Pano Gollao Salinas, 5 August 1953 (hamos & Maldonado) (1 ♀ Weems); San Sebastian, December 1935 (Acwevedo) (1 ♂ Weems);

Tru-Baja, 5 April 1915 (Gard) (1 ♂ Weems); El Yunque, 20-22 March 1964 (Madina & Maldonado) (1 ♂ Weems); Gibraltar Peak, Adjuntas, 13 February 1964 (Madina & Maldonado) (1 ♂ Weems); Lesser Antilles: Montserrat, Plymouth, November 1967 (Krauss) (1 ♂ USNM). Dominica: St. George, Roseau, 1000' ft., 23 June 1937 (Rayff) (1 ♂ USNM). Clarke Hall, 8 January-31 March 1965, malaise trap (Wirth) (16 ♂ 2 ♀ USNM); Muddy-13 February 1965 (Clarke & Clarke) (1 ♂ 1 ♀ USNM), 13 February 1964 (Bray) (1 ♂ 1 ♀ USNM), 3-20 April 1966 (Gagné) (4 ♂ 1 ♀ USNM), 11 April 1964 (Pinto) (1 ♂ USNM), 18 May-7 June 1966 (Steykai) (5 ♂ 3 ♀ USNM), 11 October 1964 (Gorney) (1 ♂ 1 ♀ USNM), 3 October-16 December 1964 (Spangler) (3 ♂ 8 ♀ USNM); South Chiltern Estate, 2 February 1965 (Wirth) (1 ♂ USNM); Point Louverture, 3 November 1966 (Gorney) (1 ♀ USNM); Triafoage Falls, 15 March 1964 (Wirth) (1 ♂ USNM); Springfield, November 1967 (Krauss) (5 ♂ 3 ♀ USNM); Roseau, October 1967 (Krauss) (2 ♂ 4 ♀ USNM); Casada Gardens, 19 February 1964 (Bray) (1 ♂ 2 ♀ USNM); Neville Hall Airport, 26 March 1966 (Gagné) (1 ♂ 1 ♀ USNM); Landau, 1800 ft., 18 April 1966 (Gagné) (1 ♂ USNM); Point Casse, 12-14 October 1964 & 27-30 November 1964 (Spangler) (1 ♂ 1 ♀ USNM); 2 miles east of Point Casse, 1500 ft., 20 February 1965 (Steykai) (1 ♀ USNM); d'Anno Complex, 1400 ft., 15 February 1965 & 2 March 1965 (Dwan) (1 ♂ 1 ♀ USNM), 13 May 1966 (Steykai) (1 ♂ USNM); Fond Figure River, 25 January 1965 (Wirth) (1 ♂ USNM), 17 March 1964 (Bray) (1 ♂ USNM), 3 May 1965 (Davies) (1 ♂ USNM); Sylvanus, grassy marsh, 20 January 1965 (Wirth) (5 ♂ 1 ♀ USNM); November 1967 (Krauss) (1 ♂ 1 ♀ USNM); near Sylvanus, 25 October 1966 (Gorney) (1 ♂ USNM). Grenada, Woodford, 5 August 1963 (Pinto) (1 ♂ 1 ♀ USNM).

TOXOMERUS ELLIHOPE Thompson
Material examined: Jamaica, type.

TOXOMERUS FERRODIA (Mill)
Material examined: Lesser Antilles, St. Vincent: Kingstown, 12 October 1957 (Krauss) (1 ♂ USNM); Moracca, 1500', July-August 1972 malaise trap (Harrison) (20 ♂ 4 ♀ USNM, CMC).

TOXOMERUS FLORENSIS (Fabricius)
Material examined: Numerous specimens from both Neartic and Neotropical regions. Bahamas: Nassau, 28 August 1904 (Johnson) (1 ♂ MCG, 1 ♂ USNM); South Beach, 15 June 1964 (Pinto) (1 ♀ Weems). Cuba: Lacotype of *subannulata* Loew and *quadrfasciata* Spigot; Havana, January-February 1915 (1 ♀ USNM); Aguada Pan., February 1915 (1 ♂ 1 ♀ USNM); Baracoa, September 1901 (Busck) (4 ♀ USNM); Camaguey, October 1950 (Krauss) (4 ♂ 3 ♀ USNM); Santiago de las Vegas, 21 June 1917 (Casoli) (1 ♂ 2 ♀ USNM); Pano Real de San Diego, 24 April 1900 (Palmer & Riley) (1 ♂ USNM); Soledad, Cienfuegos, 19 January 1927 (Barnes) (1 ♂ USNM); January-February 1921 (Barnes) (1 ♀ USNM), 8-25 February 1925 (Salz) (2 ♂ 1 ♀ MCG), 29 June 1925 (Salz) (1 ♂ MCG), 20 July 1926 (Vaurie) (1 ♂ AMNH), 6-20 August 1920 (Banks) (3 ♂ MCG, 1 ♂ Weems); Guan, 24-26 September 1912 (2 ♀ Weems); Ciego, Orinca, 3 October 1913 (1 ♂ Weems); Pinar del Rio, 27-31 August 1951 (Vaurie) (2 ♂ 1 ♀ AMNH), 10 April 2 ♂ Weems); Calabazal, 14 April 1923 (Hise) (1 ♀ Weems); Naranjo, 10 April 1923 (Hise) (1 ♀ Weems); Santa Clara, Buenos Aires, 19 July 1932 (Bates & Fairchild) (2 ♀ MCG); Santa Clara, Soledad, 23 June 1932 (Bates & Fairchild); Baragua, Camaguey, 20 June 1932 (Bates & Fairchild) (1 ♀ MCG); San Vicente, Pinar del Rio, 26 July-5 August 1929 (Harrison) (1 ♀ MCG), 25-28 July 1936 (Vaurie) (1 ♀ Weems). Grand Cayman, Georgetown, 15-30 March 1965 (McIntosh). Jamaica: St. James, Montego Bay, 6 March 1912 (Johnson) (1 ♀ MCG); St. Ann, Bonhomme, January-February (Brooks) (2 ♂ 1 ♀ MCG), 1-2 February (Wirth) (1 ♂ 1 ♀ USNM). Portland: Port Antonio (Wright) (1 ♀ MCG), April & Becker) (1 ♂ 2 ♀ CMC). St. Andrew, Newton, 3000 ft., January 1912 (Barnes) (3 ♀ USNM, MCG, Weems); Liguanea Plain, November-December 1911 (Barnes) (1 ♂ 1 ♀ USNM); Hardwar Gap, 16 December 1972 (Freck & Peck) (1 ♂ 1 ♀ USNM). Kingston: Kingston, April 1899 (Johnson) (1 ♂ 1 ♀ USNM), about 70 ft., 12 November 1919 (Watson) (1 ♀ Weems); Hope Gardens, 5 June 1931 (McAlister) (1 ♀ USNM); Hope, 20 November 1960 (Penna) (1 ♀ USNM). St. Catherine: Hyde, near Bog Walk, 23 July 1962 (Fack & Pinto) (1 ♂ 1 ♀ USNM); Worth Park, 2.2 miles north on Campdown Road, 9-19 November 1968, 13-17 May 1969 & 18-25 February 1970 malaise trap (Woodruff) (10 ♂ 12 ♀ Weems). Manchester, Luncheon District, Hardsville, 2350 ft., 29 November 1919 & 15-23 January 1920 (Watson) (4 ♂ 2 ♀ Weems); Westmoreland, Frow Estate, August 1939 (Bennett) (1 ♂ USNM). Haiti, -- (2 ♀ USNM). Dominican Republic: Duarte, Santo Domingo City, 21 July 1917 (Perrison) (1 ♂ USNM); Ciudad Trujillo, November 1950 (Krauss) (2 ♂ 2 ♀ USNM); 6 kilometers west of Ciudad Trujillo, 18-20 December 1955 (Maldonado) (1 ♂ USNM); Jacabacoa, November 1950 (Krauss) (1 ♀ USNM); La Vega, Valle del Rio, 28 December 1955 (Maldonado) (5 ♂ 4 ♀ USNM); San Francisco Mountain, August-September (busck) (1 ♂ 1 ♀ USNM); La Vega, Pons. Nouel-Constanza Road, 2000 ft., 21 December 1955 (Maldonado) (1 ♂ USNM); Monte Plata (Macaroni) (1 ♀ USNM); La Vega, Sec. La Plaine, Pons. Constanza, al pie de Casabito (1 ♂ USNM); Succ. Nueva, bonao, 6 June 1964 (Marceno) (1 ♂ USNM); Yaquecello, Munic. de Constanza (Marceno) (1 ♂ USNM). Puerto Rico: Mayaguez, P'owee (1 ♀ USNM), 15-16 February 1914 (1 ♀ USNM). July 1932 (Harvey) (1 ♀ USNM); San German, 23 December 1932 (Spangler) (5 ♂ 5 ♀ USNM); Castagne, 8 February 1969 (Telford) (1 ♂ USNM); Corozal, Experimental Station, 16 January 1969 (Telford) (5 ♂ USNM); Rio Piedras, 27 January 1917 (Linnell) (1 ♀ USNM), 22 December 1932 (Anderson, Faxon & Miles) (1 ♂ 1 ♀ USNM); Arroyo, February 1899 (busck) (1 ♂ 1 ♀ USNM); Fajardo, February 1899 (Busck) (2 ♀ USNM); Aguadilla, January 1899 (Busck) (1 ♂ 2 ♀ USNM); Recife, 17 February 1933 (Anderson) (1 ♂ 1 ♀ USNM); Utaedo, January 1899 (Busck) (1 ♂ USNM); P. Buchanan, 25 June 1950 (Perrison) (1 ♂ USNM). Virgin Islands: St. Croix, south of Airport, 21 February 1968 (Fiere) (1 ♂ USNM), Hamilton Estate, November 1950 (Krauss) (1 ♂ USNM); St. John, 10 March 1925 (1 ♂ AMNH), 15 October 1952 (Conroy & Lacer) (1 ♀ USNM). Lesser Antilles, Antigua: --, July (Stoner) (1 ♂ USNM); Blubber Valley, 13 February 1913 (1 ♀ MCG). Montserrat, 30 June 1905 (busck) (1 ♂ USNM). February 1923 (Danforth) (1 ♀ MCG). Guadeloupe: Balet Field, October 1950 (Krauss) (1 ♂ 7 ♀ USNM); Dole, 15 July 1937 (Danforth) (1 ♂ MCG).

TOXOMERUS **LINEA** (Hull)
 Material examined: Puerto Rico: Holotype: Mayaguez, 15-31 October 1953 (D. W. Moore); El Yunque, 26 October 1968 (Telford) (1 ♂ USNM); Maricao, Fish Hatchery, 8-11 August 1961 (1 ♂ USNM); Isabella, Guanacaste Forest, 22 July 1955 at Light (Ramus & Maldonado) (1 ♂ USNM); Adjuntas, Gullarte Peak, 13 February 1954 (Medina & Maldonado) (2 ♂ 2 ♀ Weems); Jayuya, 6 January 1945 (1 ♂ Weems); Loquillo National Forest, 18 February 1925 (1 ♀ Weems); Loquillo Forest, El Yunque Biological Station, Moller Road, 2100 ft., 17 December 1952 at black light (Spangler) (1 ♂ USNM); El Yunque, 20-22 March 1954 (Medina & Maldonado) (1 ♂ USNM); 6 April 1972 (Knutson) (1 ♂ USNM); Kilometer 22, Yauco-Lares Road, 18 July 1953 (Ramus & Maldonado) (1 ♂ USNM).

TOXOMERUS MACULATUS (Bigot)
 Material examined: Cuba: Canagay, October 1950 (Krauss) (1 ♀ USNM), 3 December 1917 (McClure) (1 ♂ 2 ♀ USNM); Sagua, September 1901 (Busck) (1 ♀ USNM); Viñales, Pinar del Rio, 27-31 August 1951 (Vaurie) (1 ♀ Weems); Jamaica: St. Catherine, North Park, 2.2 miles north on Camperdown Road, 10 May 1965, 18-25 February 1970 malaise trap (Woodruff) (2 ♀ USNM); Manchester, George Valley, about 2000 ft., 8 January 1920 (Watson) (1 ♂ USNM); Puerto Rico: Utuado, January 1899 (Busck) (1 ♂ USNM); Mona Island, Los Pinos, 28 October 1955 (Crosby) (1 ♂ USNM); Corozal, 2 July 1915 (1 ♂ Weems); Caguas (Holcott) (1 ♂ Weems); Virgin Islands, St. Croix: Kingshill, 21 January 1960 (Miskimon) (1 ♂ 1 ♀ USNM); Christiansted, Constitution Hill, April 1948 (Beatty) (1 ♂ USNM).

TOXOMERUS MULTIPUNCTATUS (Walsh)
 Material examined: Virgin Islands, St. John, Virgin Islands National Park, 19-27 July 1952 (Gray) (1 ♀ USNM); Lesser Antilles, Guadeloupe, Soufriere Mountain, 29 June 1937 (Danforth) (1 ♀ Weems); Dominica: Freshwater Lake, 23 January 1965 (Clarke) (1 ♀ USNM); 21 February 1964 (Robinson) (1 ♂ USNM); 6 March 1965 (Evans) (1 ♀ USNM); Sylvania, 1800 ft., 5 February 1964 (Bray) (1 ♂ USNM); Syndicate Estate, 5 March 1964 (Bray) (3 ♂ USNM); Trois Piton, 4600 ft., 4 April 1965 (Davis & Flinn) (1 ♂ 1 ♀ USNM).

TOXOMERUS MUSCULUS (Fabricius)
 Material examined: Lesser Antilles, Montserrat, 29 June (Busck) (4 ♂ USNM).

TOXOMERUS ORNITHOGLYPHUS (Hull)
 Material examined: Dominican Republic: La Vega, Valle del Rio, 28 December 1955 (Maldonado) (4 ♂ 3 ♀ USNM); La Vega, Valle Nuevo, 2200 m., 28 December 1955 (Maldonado) (1 ♂ USNM); Trujillo, Cambito, 22 December 1955 (Maldonado) (2 ♂ USNM); Trujillo, Colonia Ranfa, 26 December 1955 (Maldonado) (1 ♀ USNM); 6 kilometers west of Ciudad Trujillo, 16-20 December 1955 (Maldonado) (2 ♂ 4 ♀ USNM); Licey al Medio (Maldonado) (1 ♀ USNM); Secc. Agua Nueva Federales, 22 March 1967 (Maldonado) (1 ♂ USNM); Siguito del Yunque, 26 March 1964 (Maldonado) (1 ♀ USNM); Tamboril, 22 July 1965 (Maldonado) (1 ♂ USNM); Pilon de Anacar Samana, 300 m., 16 April 1965 (Maldonado) (1 ♀ USNM); La Vega, Paso de la Vaca, Mons. Nouel-Constanza Road, 1500 m., 27 December 1955 (Maldonado) (1 ♀ USNM).

TOXOMERUS PICTUS (Macquart)
 Material examined: Numerous specimens from Neotropical region. Cuba: Type of *occipitipes* Loew and *extipolatus* Hull; Havana, January-February 1915 (1 ♀ USNM); Boniato, 7 December 1904 (1 ♂ USNM); Canagay, October 1950 (Krauss) (2 ♀ USNM); Santa Clara, San Juan Mountains, January-February 1927 (Busck) (1 ♂ USNM); Soledad, Cienfuegos, January-February 1927 (Busck) (1 ♂ USNM); 8 February 1925 (Salt) (1 ♀ Weems); 4 August 1920 (Bank) (1 ♀ Weems); Jamaica: St. James, Montego Bay, 6 March 1912 (Cushman) (1 ♀ Weems); St. Ann, Ocho Rios, 28-24 August 1934 (Hastings) (1 ♂ USNM); St. Ann, Montego Bay, January (Brooks) (1 ♀ USNM); Portland, Harrow Gap, 4000 ft., 13-29 July 1966 (Hovden & Becker) (6 ♂ 5 ♀ USNM); St. Andrew, Liguanea Hope Botanical Gardens, about 650 ft., 4-5 December 1919 (Watson) (1 ♀ Weems); St. Andrew, Plain, November-December 1911 (Brewer) (1 ♂ USNM); St. Catherine, North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968 & 18-25 February 1970 malaise trap (Woodruff) (3 ♂ 16 ♀ Weems); Manchester, Handville, 2133 ft., 16 December 1919 (Watson) (2 ♂ Weems); 2250 ft., 20 November 1919 (Watson) (1 ♂ USNM); Manchester, Kendal District, about 1750 ft., 19 January 1920 (Watson) (2 ♂ Weems); Puerto Rico: Yauco-Lares Road, Kilometer 28, 20 January 1954 (Maldonado & Medina) (1 ♂ Weems); El Yunque, 20-22 March 1954 (Maldonado & Medina) (1 ♀ Weems); Mayaguez, 24-29 July 1934 (1 ♀ Weems); July 1932 (Harley) (1 ♀ USNM); Adjuntas, Gullarte Peak, 7 November 1954 (Maldonado) (1 ♂ USNM); Loquillo Forest, El Yunque Biological Station, Moller Road, 2100 ft., 17 December 1962 (Spangler) (1 ♂ USNM); El Yunque, 1 ♀ USNM); Lesser Antilles, Dominica: Clarke Hall, 8-13 January 1965 malaise trap (Wirth) (5 ♀ USNM); 16 January-30 March (Clarke & Clarke) (2 ♂ 1 ♀ USNM); 3 February 1964 (Bray) (1 ♂ USNM); 27 April 1966 (Gagné) (1 ♂ USNM); 7 June 1966 (Steyns) (1 ♂ USNM); 30 October-16 December 1964 (Spangler) (6 ♂ 3 ♀ USNM); Post Casse, 23 November 1964 (Spangler) (1 ♂ USNM); Springfield, November 1967 (Krauss) (3 ♂ USNM); St. Lucia, Castries, October 1967 (Krauss) (1 ♂ USNM).

TOXOMERUS POLIUS (Say)
 Material examined: Numerous specimens from both Nearctic and Neotropical regions. Cuba: --, 21 October 1915 (1 ♀ USNM); Baragua, 30 August 1929, 5 September 1929 (Scaramuzza) (1 ♂ 1 ♀ USNM); San Diego de las Baños (1 ♂ USNM); Cerro Cabras, near Pinar del Rio, 11 September, 1915 (1 ♂ Weems); Haiti: Port au Prince, Dole Caradeux, 7-10 September 1924 (Ducasse) (1 ♂ USNM); Puerto Rico: Rio Piedras, 9 October 1917 (Oxtown) (1 ♂ USNM); Coamo, 31 June 1932 (Silver) (1 ♀ Weems); Maricao State Forest, 5 July 1953 (Maldonado) (1 ♀ Weems); Lesser Antilles, Dominica, Clarke Hall, 12-17 November 1964 (Spangler) (1 ♂ USNM).

TOXOMERUS PUELIUS (Hull)
 Material examined: Cuba: Holotype.

TOXOMERUS PULCHELLUS (Macquart)
 Material examined: Cuba: Aguada Pas., February 1915 (1 ♂ 1 ♀ USNM); Cerro Cabras, near Pinar del Rio, 11 September 1915 (1 ♂ USNM); Viñales, Pinar del Rio, 27-31 August 1951 (Vaurie) (1 ♀ USNM); Canagay, October 1950 (Krauss) (1 ♂ 1 ♀ USNM); Cabañas, Pinar del Rio, 5-8 September 1913 (1 ♀ Weems); Soledad, Cienfuegos, January-February 1927 (Busck) (1 ♂ 1 ♀ USNM); 3 ♀ USNM); Jamaica: St. James, Montego Bay, 1-2 January 1920 (Watson) (1 ♂ Weems); Truelay, Good Hope, 22 August 1966 (Hovden) (1 ♂ USNM); St. Andrew, Irish Town, 28 August 1966 (Hovden & Becker) (1 ♂ 2 ♀ USNM); Kingston, October 1950 (Krauss) (1 ♀ USNM); Liguanea Plain, November-December 1911 (Brewer) (1 ♂ 1 ♀ Weems); St. Catherine, North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968, 14-17 May 1969, 18-25 February 1970 malaise trap (Woodruff) (15 ♂ 9 ♀ USNM); Neenah, Puerto Rico: Mayaguez, July 1932 (Harley) (1 ♂ 1 ♀ USNM); Corozal, 24 March 1934 (Anderson, Faxon & Hill) (1 ♂ USNM); Lesser Antilles, Montserrat, 29 June (Busck) (1 ♀ USNM); Guadeloupe, Raiset Field, October 1950 (Krauss) (1 ♂ 2 ♀ USNM); Dominica: Freshwater Lake, 8-31 January 1965 malaise trap (Wirth) (4 ♂ USNM); 12-17 November 1964 (Spangler) (1 ♂ USNM); 11-16 December 1964 (Spangler) (USNM); Springfield, November 1967 (Krauss) (1 ♀ USNM); Grande Savane, 15 September 1964 (Spangler) (1 ♂ USNM); Corozal, 2 July 1915 (1 ♂ Weems); Sylvania, 1800 ft., near Sylvania, 25 October 1966 (Gurney) (1 ♀ USNM).

TOXOMERUS PUMILI Thompson
 Material examined: Virgin Islands, St. Croix: Types.

TOXOMERUS UNIA (Hull)
 Material examined: Haiti: Holotype.

TOXOMERUS VALDESI (Fiske)
 Material examined: Cuba: Holotype.

TOXOMERUS VERTICALIS (Crosby)
 Material examined: Jamaica: Holotypes of *nitis* Curran and *rhodope* Hull; St. Catherine, North Park, 2.2 miles north Camperdown Road, 18-25 February 1970 malaise trap (Woodruff) (1 ♀ USNM); Puerto Rico: Holotype of *verticalis* Curran; Amasco, 2 May 1933 (Harley) (1 ♀ USNM); Castaner, 10 February 1969 malaise trap (Telford) (1 ♀ USNM); Arecibo, Cumbre Alta Forest, 15-17 February 1968 malaise trap (Telford) (1 ♂ USNM); Cayer, Henry Barracks, 12-19 March 1965, 3-5 April 1969 (Medina) (2 ♂ 1 ♀ USNM).

TOXOMERUS VEVE (Hull)
 Material examined: Haiti: Holotype. Dominican Republic, Valverde, Esperanza (Maldonado) (1 ♂ USNM).

TOXOMERUS WATSONI (Curran)
 Material examined: Jamaica: Portland, Harrow Gap, 4000 ft., 13-15 July 1966 (Wairie) (1 ♂ USNM); 4000 ft., 10 March 1970 (Wirth & Zacc) (4 ♀ USNM); 13-29 July 1966 (Hovden & Becker) (1 ♂ 1 ♀ USNM); St. Andrew, Harrow Gap, 16 December 1972 (Peck & Peck) (1 ♂ USNM); Hollywell Cabin, 16 February 1970 (Woodruff) (1 ♂ 4 ♀ Weems); Puerto Rico: El Yunque, March 1955 (Maldonado) (1 ♀ USNM); Yauco-Lares Road, Kilometer 29, 20 January 1954 (Maldonado & Medina) (1 ♀ USNM).

TOXOMERUS WATSONI (Curran)
 Material examined: Cuba: Guan, 24-26 September 1913 (1 ♂ Weems); Guantánamo, 10 February 1914 (Schiner) (1 ♂ Weems); Calabazar, 14 April 1923 (Hull) (1 ♀ Weems); Soledad, Cienfuegos, January-February 1927 (Busck) (1 ♀ USNM); Boniato, 25 November 1904 (2 ♂ 1 ♀ USNM); Jamaica: St. James, Montego Bay, 30 December 1919 (Watson) (1 ♂ Weems); Portland, Port Antonio, January (Wright) (1 ♂ USNM); Portland, Harrow Gap, 4000 ft., 25 July 1966, 10 August 1966 (Hovden & Becker) (2 ♀ USNM); 10 March 1970 (Wirth & Zacc) (1 ♂ 2 ♀ USNM); St. Andrew, 6 miles north of Marie Bank, 1 June 1966 (Dozier) (1 ♀ Weems); St. Andrew, 6 miles north of Marie Bank, 1 June 1966 (Dozier) (1 ♀ Weems); St. Andrew, April 1893 (Cushman) (1 ♂ USNM); St. Catherine, North Park, 2.2 miles north on Camperdown Road, 9-19 November 1968, 14-17 May 1969 & 18-25 February 1970 malaise trap (Woodruff) (1 ♂ 2 ♀ USNM); Manchester, Dominica District, Handville, 2350 ft., 17-23 January 1920 (Watson) (1 ♀ USNM); Dominican Republic: Ciudad Trujillo, November 1950 (Krauss) (2 ♀ USNM); 6 kilometers west of Ciudad Trujillo, 16-20 December 1955 (Maldonado) (2 ♂ USNM); Jataboca, November 1950 (Krauss) (1 ♀ USNM); Puerto Rico: Corozal, 2 July 1915 (1 ♀ Weems); 20 January 1965 malaise trap (Telford) (3 ♂ USNM); Utuado, 11 November 1968 malaise trap (Telford) (1 ♂ USNM); Mayaguez, 4 February 1969 malaise trap (Telford) (1 ♂ USNM); Rio Piedras, 17 February 1925 (Wirth) (1 ♂ Weems); Lesser Antilles: Grenada (Busck) (1 ♀ USNM).

TOXOMERUS species 4
 Material examined: Dominican Republic: Trujillo, Colonia Ranfa, 26 December 1955 (Maldonado) (1 ♂ USNM); La Vega, Paso de la Vaca, Mons. Nouel-Constanza Road, 1500 m., 27 December 1955 (Maldonado) (1 ♀ USNM); Valverde, Esperanza (Maldonado) (1 ♂ USNM).

LEUCOPODELLA GRACILIS (Williston)

Material examined: Cuba: Types of *estrella* Hull; -- (Wright) (1 ♀ MC2); Buepos Alev, Trinidad Mountains, 17-23 June 1939 (Parsons) (1 ♂ CMC, 1 ♂ USNM); Darlington (1 ♂ USNM, 1 ♀ Weems); Pico Turquino, 6060 ft., (subalt.), 16-21 June 1936 (Darlington) (1 ♂ USNM, 1 ♀ Weems); St. Thomas, Blue Mountains, Main, 17-19 August 1934 (Darlington) (1 ♂ MC2); Blue Mountains, Whitefield Hall, near 4500 ft., 17-20 August (Thompson) (1 ♀ MC2); 6 miles north of Havis Bank, 2 June 1946 (Dozier) (1 ♂ 1 ♀ Weems). Puerto Rico: Adjuntas, Guaitaca Peak, 13 February 1954 (Maldonado & Medina) (2 ♂ USNM, Weems).

LEUCOPODELLA INOXYPTA (Austen)

Material examined: Brazil, Lectotype: Puerto Rico, Adjuntas, 6-13 June 1915 (1 ♂ ANNH).

NYGROSE PRAXEUSUS (Loew)

Material examined: Cuba: Types of *praxeusus* Loew and *quadrimaculata* Hull. Jamaica: Portland, Hardwar Gap, 5 June 1965 (Farr) (1 ♀ IJ).

XANTHANDRUS SETIPEDATUS Thompson

Material examined: Jamaica: Holotype.

XANTHANDRUS CUBANUS Fluke

Material examined: Cuba: Types of *cubanus* Fluke and *nigrice* Loew. Puerto Rico:

XANTHANDRUS SIMPLEX (Loew)

Material examined: Cuba: Type. Dominican Republic: San Domingo (1 ♀ USNM).

XANTHANDRUS TRICINCTUS Thompson

Material examined: Dominica: Holotype.

PARAMICRODON DELICATULUS Hull

Material examined: Cuba: Lectotype: Soledad, near Cienfuegos, 20 July 1956 (Husck) (1 ♀ Weems).

MICROASTE CURVISPIS Curran

Material examined: Cuba: Holotype: Sierra Hembra, 900-1200 ft., 10-20 July 1922 (Ballou & Brunner) (1 ♂ Weems).

MICRODON BRUNSI Hull

Material examined: Cuba: SoLa, 20 June 1950 (1 ♀ USNM). Haiti: Holotype.

MICRODON INAEQUALIS Loew

Material examined: Jamaica: St. Andrew, Hermitage, 30 October 1957 (Farr) (1 ♀ USNM); St. Catherine, Northy Park, 2.2 miles north on Camperdown Road, 9-19 November 1958 (Woodruff) (1 ♀ Weems).

MICRODON LACTUS Loew

Material examined: Cuba: Havana (Baker) (1 ♂ USNM); Cienfuegos, Soledad, Llanos Seboruco, 13 September 1930 (Dow) (1 ♂ MC2); Santa Clara, San Jose, Trinidad Mountains, 27 August 1930 (1 ♂ MC2); Pinar del Rio, San Vincente, 25-28 July (Husck) (1 ♂ ANNH). Grand Cayman, Georgetown, 15-20 March 1965 (McIntosh) (1 ♀ CNC). Haiti (1 ♀ USNM). Jamaica: St. Catherine, Port Henderson, 4 May 1956 (Farr) (1 ♀ IJ), 25 December 1955 (Farr) (1 ♂ IJ); St. Thomas, Mount Point, 14 May 1960 (Farr) (2 ♂ USNM, 1 ♀), 25 September 1962 (Farr) (3 ♂ USNM, 1 ♀). Dominican Republic, San Francisco Mountains, September 1905 (Husck) (1 ♂ USNM).

MICRODON PULCHER Williston

Material examined: Dominican Republic: Lectotype.

MICRODON REMIUS Knab

Material examined: Cuba: Holotypes of *remius* Knab and *hanki* Hull.

MICRODON VIOLEUS Townsend

Material examined: Jamaica: Portland, Hardwar Gap, 4000 ft., 10-29 July 1966 (Hosden & Becker) (3 ♂ 2 ♀ CNC, USNM); Hardwar Gap, Waterfall, 13 July 1963 (Farr & Pflint) (2 ♂ USNM); Hardwar Gap, Greenhills, 6 June 1971, 11 July 1971 (Farr) (2 ♂ USNM, 1 ♀); 2 miles southwest of Ecclesdown, 24 August 1954 (Farr) (1 ♂ IJ); Hardwar Gap, 18 May 1962, 8 July 1962 (Farr) (2 ♀ IJ); St. Andrew, Gully below Moses Gap, 23 August 1965 (Henry) (2 ♀ IJ); St. Ann, Fern Gully, 16 April 1954 (Farr) (1 ♂ IJ).

TACHOPSOPIA AVILLENIS Thompson

Material examined: Jamaica, Puerto Rico: Types.

ORHIDIA OBESA (Fabricius)

Material examined: Numerous specimens from both Neartic and Neotropical regions. Bahamas, Nassau (1 ♂ 1 ♀ USNM). Cuba: -- (1 ♂ USNM); Havana (Baker) (1 ♀ USNM); La Havana, Santiago de las Vegas, 23 January 1926 (1 ♂ USNM), 10 April 1926 (1 ♂ USNM); June 1917 (Caudin) (1 ♂ USNM), 29 December 1958 (Acuna) (1 ♀ USNM); San Diego de los Baños, 7-15 April 1900 (Walker & Riley) (1 ♂ USNM); Baracoa, August-September 1901 (Husck) (8 ♀ USNM); Cayama, 21 February (Schwarz) (1 ♂ USNM); San Antonio de los Baños (1 ♀ USNM); Holguin (1 ♂ USNM). Jamaica. St. Ann, Ocho Rios, December 1961 (Wood) (2 ♀ CNC); Portland, Port Antonio, April-May (Johnson) (6 ♂ 9 ♀ USNM); Portland, Hardwar Gap, 4000 ft., 6 June 1966 (Hosden & Becker) (1 ♀ CNC); St. Thomas, October 1918 (2 ♂ USNM); St. Andrew, April 1893 (Taylor) (1 ♀ USNM); St. Andrew, Chesterville, 20 June 1952 (Lassie) (1 ♂ Weems); St. Andrew, Havis Bank, 3 June 1965 (Dozier) (2 ♀ Weems); St. Andrew, Irish Town, 24-28 August 1966 (Hosden & Becker) (7 ♂ 8 ♀ CNC); Kingston, Rae Town, 4 March 1900

(Taylor) (1 ♀ USNM); St. Catherine, Riverdale, 28 February 1900 (Taylor) (1 ♂ USNM); St. Catherine, Northy Park, 2.2 miles north on Camperdown Road, 9-19 November 1958 (Woodruff) (1 ♂ 1 ♀ Weems); Manchester, Christiana, 21 August 1960 (Westfall) (1 ♂ Weems). Haiti: -- (1 ♀ USNM); Port au Prince, Bois Caradeau, 7-10 September 1934 (Hosden) (1 ♂ 1 ♀ USNM). Dominican Republic: -- (2 ♂ USNM), -- (Abbott) (1 ♂ USNM); San Francisco Mountains, 29 August 1905, September 1905 (Husck) (2 ♂ 3 ♀ USNM); Rinconada de Yucon, 25 June 1907 (Hosden) (1 ♂ USNM); Capital en el Cacho de la Rubia, 16 October 1905 (Hosden) (1 ♂ USNM); Capital, 15 February 1964 (Hosden) (1 ♀ USNM). Puerto Rico: Cabo Rojo, 30 April 1917 (2 ♂ USNM); Arceibo, 23 February 1932 (Anderson & Miller) (1 ♂ USNM); Mayaguez, 4 May 1911 (Piedra) (1 ♂ USNM), 3 October 1911 (van Zwaluwenberg) (1 ♂ USNM), 30 December 1911 (Hooker) (1 ♂ USNM), -- (1 ♂ USNM); Caguas, 25 September 1953 (Medina) (1 ♂ Weems); Adjuntas (Gastler-Thompson) (1 ♀ USNM). Lesser Antilles. Virgin Islands. Lectotype of *obesa* Fabricius: Dominica: Clarke Hall, 18 January-3 March 1965 (malaise trap (Clarke & Clarke) (5 ♂ 3 ♀ USNM), 21 January-20 February 1965 (malaise trap (Wirth) (1 ♂ 1 ♀ USNM), 4 February-3 March 1965 (Evans) (1 ♂ 2 ♀ USNM), 16-29 February 1964 (Henry) (1 ♂ 1 ♀ USNM), 4 March 1964 (Robinson) (1 ♀ USNM), 15-27 April 1966 (Gagné) (2 ♀ USNM), 6 May 1964 (Pflint) (1 ♀ USNM), 28 May-8 June 1966 (Skeynka) (4 ♀ USNM), 1 August 1965 (Jackson) (1 ♂ USNM), 3 October-1 December 1964 (Spangler) (1 ♂ 4 ♀ USNM); South Chiltern, 20 February 1965 (Wirth) (1 ♂ USNM), 11 July 1965 (Anderson) (1 ♂ USNM); Grande Savane, 17 February 1965 (Wirth) (1 ♂ USNM); Greenhill Estate, 800 ft., 3-12 July 1941 (Husck) (5 ♂ USNM); Sylvania Estate, 17 April 1931 (Hickley & Cooley) (2 ♂ USNM); Castle Comfort, 13 July 1965 (Anderson) (1 ♀ USNM); Ridgefield, November 1954 (Hennett) (1 ♀ USNM); Springfield, November 1957 (Krauss) (1 ♂ 1 ♀ USNM); Roseau, 20 September 1964 (Espinosa) (2 ♂ 4 ♀ USNM); Caribb Swamp, 3 November 1964 (Spangler) (1 ♀ USNM); Port Casse, 6-13 October 1966 (Gurney) (1 ♂ USNM); Freshwater Lake, 7 July 1965 (Anderson) (1 ♂ USNM); 1.5 miles east of Port Casse, 11 September 1965 (Anderson) (1 ♂ USNM); North Grand Bay, near Bassville Estate, 4 September 1965 (Anderson) (1 ♀ USNM). Martinique, Fort de France, November 1950 (Krauss) (1 ♀ USNM). St. Vincent, Kingston, 17 October 1967 (Krauss) (1 ♀ USNM). Grenada: --, 15 September 1921 (Husck); Grand Etang, 4-6 August 1963 (Pflint) (1 ♂ USNM); Grand Etang, Guest House, 23 October 1963 (RN) (1 ♂ USNM).

COPESTYLUM AROMATISALE (Wiedemann)

Material examined: Bahamas, Rum Cay, 14-16 February 1934 (1 ♂ USNM). Cuba: -- (1 ♂ 1 ♀ USNM); Guanabo, 18 April 1926 (1 ♀ USNM); Oriente, Loma del Cacho, 10 miles north of Sancti Spiritus, 1-7 July 1936 (Darlington) (1 ♂ USNM); Oriente, Guantánamo, 22 May 1934 (Ramsden) (1 ♀ USNM); P. de Hicacos, Mts., 14 April 1960 (Scaramuzza) (1 ♂ USNM). Grand Cayman, George Town, sea level, April 1896 (Taylor) (2 ♀ USNM).

COPESTYLUM APICALE (Loew)

Material examined: Cuba: Havana (Baker) (1 ♀ USNM); Duomo Aires, Trinidad Mountains, 17-23 June 1939 (Parsons) (1 ♂ MC2); Oriente, Guantánamo, San Carlos Estate, 3 December 1934 (Hosden) (1 ♀ MC2). Jamaica: Trelawny, Good Hope, 8 August 1916 (Hosden & Becker) (1 ♀ CNC). Puerto Rico: Mayaguez, 12 August 1917 (van Zwaluwenberg) (1 ♂ USNM), 28 November 1953 (1 ♂ Weems); Aiconito, 10 February 1935 (Martinez) (2 ♂ Weems); Bayamon, 6 February 1939 (Lassie & Anderson) (1 ♀ USNM); Las Marias, 14-18 July 1955 (Ramos) (2 ♀ USNM). Lesser Antilles. Dominica: Clarke Hall, 13 February 1964 (Robinson) (1 ♀ USNM), 22 April 1966 (Gagné) (1 ♂ USNM), 19-22 October 1964 (Spangler) (2 ♀ USNM), 19-25 November 1964 (Spangler) (1 ♂ USNM). Port Casse, 12-14 October 1964 (Spangler) (2 ♀ USNM); South Chiltern, 25 March 1964 (Robinson) (1 ♀ USNM); Fortune, 3 August 1964 (Espinosa) (1 ♀ USNM).

COPESTYLUM BRUNSI (Curran)

Material examined: Cuba: Holotype.

COPESTYLUM BRUNNIPER (Thunberg)

Material examined: Type of *adjuvata* Walker (unknown locality). Puerto Rico, Maricao, July 1910 (Brunetti) (1 ♀ USNM), 11 July 1944 (Ramos) (1 ♀ USNM). Virgin Islands: Lectotype of *grummen* Thunberg: St. John, General Bay, 22 January 1963 (Spangler & Muller) (1 ♀ USNM).

COPESTYLUM DISCALE (Curran)

Material examined: Lesser Antilles. Dominica: Clarke Hall, 28 March 1966 (Gagné) (1 ♂ USNM), 24 April 1966 (Gagné) (1 ♂ USNM); Caribb Swamp, 3 November 1964 (Spangler) (1 ♀ USNM); 1.5 miles east of Port Casse, 1200 m, 12-25 February 1965 (Evans) (1 ♂ USNM); Roseau, November 1954, ex rotting banana trunk (Hennett) (1 ♀ USNM). St. Vincent, Marjorca, 1500 ft., June-August 1972 (Hickling) (2 ♀ CNC). Grenada: Holotype: Grand Etang, September 1910 (Allen & Bruce) (2 ♂ 4 ♀ USNM), 1800 ft., March 1924 (Miller) (1 ♂ 2 ♀ USNM).

COPESTYLUM EURENIA (Williston)

Material examined: Bahamas: Holotype: Nassau, -- (1 ♂ 1 ♀ USNM), (Knab) (2 ♀ USNM); Weems; Andros, Andros Town, 27-28 February 1966 (Crawright) (1 ♂ USNM); Andros, 5 miles south point Simon, West Coast, 16 March 1966 (Crawright) (1 ♂ 1 ♀ USNM); Cat Island, Arthur Town, 22 July 1935 (Clench) (1 ♂ USNM); Grand Bahama, 16 March 1934 (1 ♀ USNM); Grand Bahama, Freeport, 3 August 1965 (Willison) (1 ♂ USNM); South Eleuthera, 9 February 1934 (1 ♂ USNM); South Miami, July 1931, 2-9 August 1931 (Vouries) (1 ♀ 1 ♀ USNM).

COPESTYLUM EXUBERANS (Curran)

Material examined: Jamaica: -- (2 ♀ USNM); St. Andrew, August 1898 (Taylor) (2 ♂ USNM, Weems); St. Andrew, Newton, 300 ft., January 1912 (Brunetti) (1 ♂ 1 ♀ USNM); Kingston, January 1875 (1 ♂ 1 ♀ USNM); April 1891 (Johnson) (1 ♂ USNM); Kingston, Rae Town, 4 March 1900 (Taylor) (1 ♂ USNM), sea level, 20 September 1896 (Taylor) (1 ♂ USNM); St. Catherine, Port Henderson, 28 July 1953 (Henry) (1 ♂ USNM); Clarendon, Jackson's Bay, 15 December 1950 (Henry) (1 ♀ USNM).

- COPESTYLUM HISPANICOLAE** Thompson
Material examined: Dominican Republic: Types.
- COPESTYLUM INTRACRUR** Thompson
Material examined: Lesser Antilles, Dominica: Types.
- COPESTYLUM INDIANA** Curran
Material examined: None studied.
- COPESTYLUM PSEUDOPALLENS** Thompson
Material examined: Jamaica: Types.
- COPESTYLUM PUBESCENS** Loew
Material examined: Cuba: La Havana, San Antonio de los Baños (Paenon) (1 ♂ ANNH); Florencia, July (Weich) (1 ♂ ANNH); Santiago, 1906 (Edzin) (1 ♂ USNM).
- COPESTYLUM PURPURASCENS** Loew
Material examined: Haiti: Types of *purpurascens* Loew and *usoleoni* Curran: --(1 ♂ USNM); -- (USNM) (2 ♂ USNM); Gr. Bone (Baker) (1 ♂ USNM); Port au Prince, Bois Caradeux, 7-10 September 1934 (Dacasse) (4 ♂ USNM, 300 ft., 2-4 February 1922 (1 ♂ Weems).
- COPESTYLUM PUSILLUM** (Macquart) typical form
Material examined: Cuba, vicinity of Havana (Barbour) (1 ♂ MCZ); Oriente, Guantánamo Bay, U. S. Naval Station, December 1969 (Tisdale) (1 ♂ 1 ♀ Weems).
- COPESTYLUM PUSILLUM** (Macquart) form *NORVATHI* (Szilady)
Material examined: Cuba: Cienfuegos, Soledad, 20 July 1956 (Vaurie) (1 ♀ Weems), 15 October 1956 (1 ♂ MCZ); Pinar del Río, Wifredo, 27-31 August 1951 (Vaurie) (2 ♂ USNM, Weems).
- COPESTYLUM RECTIPALIS** Thompson
Material examined: Lesser Antilles, Dominica: Types.
- COPESTYLUM SEMICULVATUM** (Fallén de Beauvois)
Material examined: Cuba: "Est. Cent. Agr. de Cuba", 9 June 1906 (1 ♀ USNM); El Gabriel, 3 July 1950 (1 ♂ 1 ♀ USNM); Santa Clara Province, Soledad, 9-17 June 1939 (Parsons) (1 ♀ Weems); Santiago, St. Thomas, 13 miles east of Kingston on Morait Bay Road, 7 August 1960 (Farr) (1 ♂ 1 ♀); St. Andrew, Newton, 3000 ft., January 1912 (Bruce) (1 ♂ ANNH); Liguanea Plain, November-December 1911 (Bruce) (1 ♂ Weems); Haiti: Attéye, 17 October 1925 (Hoefnagel) (1 ♂ USNM); Dominican Republic, San Francisco Mountains, September 1915 (Busck) (1 ♀ USNM); Puerto Rico: Mayaguez, 18 May 1914, 6 June 1914 (Van Zwaluwenberg) (2 ♂ USNM); 15 April 1950 (2 ♂ USNM); Ponceles, 25 February 1922 (Oshley) (1 ♂ USNM); 16 May 1932 (Bofill & Oshley) (2 ♂ USNM); Arceito, 22 March 1932 (Anderson & Mills) (1 ♂ USNM); 14 April 1934 (Anderson, Faxon & Mills) (1 ♂ USNM); 27 July 1931 (Mills & Kisilov) (1 ♂ 1 ♀ USNM); 15 December 1933 (Anderson & Mills) (1 ♂ USNM); Manzanillo, 2 July 1931 (Cooley & Kisilov) (1 ♂ USNM); Adjuntas, 16 February 1935 (Mendez) (1 ♂ ANNH); 8-13 June 1915 (1 ♂ ANNH); Río Piedras, 1 June 1932 (Dias) (1 ♀ ANNH); Liguanea National Forest, 18 November 1928 (1 ♂ ANNH); Altonito, 16 February 1935 (Hartnett) (1 ♂ ANNH); 5 miles northeast of Jayuya, 23 July 1969 (Howden) (1 ♂ MCZ); Coamo, 16 June 1932 (Rivera) (1 ♂ Weems).
- COPESTYLUM VACUUM** (Fabricius)
Material examined: Jamaica: Trelawny, Dunmore, 23 August 1966 (Houten & Becker) (1 ♀ MCZ); Trelawny, Baron Hill, 5 October (Perkins) (1 ♂ MCZ); St. Ann, Runaway Bay, 1-8 March 1970 (Wirth) (1 ♀ USNM); Kingston, Raw Town, sea level, 20 September 1956 (Taylor) (1 ♀ USNM); Liguanea Plain, November-December 1911 (Bruce) (1 ♂ 1 ♀ Weems); St. Catherine, Morphy Park, 2.2 miles north on Camperdown Road, 9-19 November 1968 malaise trap (Woodruff) (2 ♀ Weems); Puerto Rico: Bahía las Cabezas, 1-9 February 1967 (Evans) (1 ♂ 1 ♀ USNM); Mona Island, August 1939 (Hortzell) (1 ♂ USNM); Mona Island, Camp Copresi, 19 November 1955 (1 ♀ USNM); Mona Island, Hill Road, 28 October 1955 (Crosby) (1 ♂ USNM); Mona Island, Uvero, 13 October 1955 (Crosby) (1 ♂ USNM); State Forest, Guánica, 30 June 1955 (Hildenard & Nason) (1 ♀ USNM); Virgin Islands: Lectotype of *vacuum* Fabricius; St. Croix, 2 March 1925 (1 ♀ Weems); Crane Park, November-December 1967 (Fierco) (7 ♂ 4 ♀ Weems); Hamilton Airport, 16 February 1967 (Evans) (1 ♂ 1 ♀ MCZ); Lesser Antilles: Nevis, Wards, 12 August 1931 (Kisilov & Cooley) (1 ♀ USNM); Antigua, 1924 (Goodwin) (1 ♂ USNM); Montserrat, Plymouth, 0-100 m, July 1971 (Krauss) (2 ♂ USNM); Dominica, Grande Savane, 30 January 1965 (Wirth) (1 ♂ USNM).
- LEPTOMYIA CNOIDEA** Loew
Material examined: Cuba (1 ♂ ANNH); Jamaica: Portland, Port Antonio, April (Johnson) (1 ♂ MCZ); St. Andrew, Half Way Tree, 16 March 1958 (Riles) (1 ♀ USNM).
- ORTHOMYIA ODGARI** Null
Material examined: Cuba, types.
- NELOPHYLUS FASCICULUS** Walker
Material examined: Numerous specimens from North America; Jamaica, St. Ann, Moneague, 16 August 1920 (Gowdy) (1 ♀ 1 ♂) [mislabelled].
- QUICHUANA CALATHEA** Shannon
Material examined: Holotype and 2 ♂ from Panama (USNM); Cuba? (see text).
- QUICHUANA DOMINICA** Thompson
Material examined: Lesser Antilles, Dominica, types.
- CRISTALLIS TENAX** (Linnaeus)
Material examined: Numerous specimens from North America and Europe; Jamaica, St. Andrew, Cinchona, 7-8 July 1924 (Gowdy) (2 ♂ 1 ♀).
- PODSIRISTALIS FERTILIS** (Scopoli)
Material examined: Numerous specimens from Europe; Lesser Antilles, Guadeloupe, lectotype of *quichuana* Macquart [mislabelled].
- PODSIRISTALIS ARBUSCULUS** (Linnaeus)
No material examined from the West Indies.
- PODSIRISTALIS TRANSVERSA** (Hübner)
Material examined: Numerous specimens from North America; Jamaica, St. Ann, Moneague, 16 August 1920 (Gowdy) (1 ♂ 1 ♀).
- PALPADA AGRORIUM** (Fabricius)
Material examined: Numerous specimens from the southern Neartic Region and northern Neotropical Region. Cuba: Type of *agrorium* Loew; Santa Clara, Soledad, 7 June 1925 (Salt) (1 ♀ USNM), 26 June 1927 (Bates & Fairchild) (1 ♂ USNM); Santa Clara, San Blas, 13 August 1932 (Bates & Fairchild) (1 ♀ USNM); Havana (Baker) (1 ♂ USNM); Jamaica: Portland, Port Antonio, April (Johnson) (1 ♂ USNM); Dominican Republic: (1 ♀ USNM); Puerto Rico: Cabo Rojo, 14 November 1910 (Hartig) (1 ♀ USNM); Mayaguez, 10 August 1953 (1 ♂ Weems); Río Piedras, March 1935 (Perez) (1 ♀ USNM), 20 May 1932 (Dias) (1 ♂ Weems), 5 June 1932 (Dias) (1 ♀ Weems); Lesser Antilles, Virgin Islands, lectotype of *agrorium* Fabricius.
- PALPADA ALBIFRONS** (Wiedemann)
Material examined: Numerous specimens including the types of *albifrons* Wiedemann and *albiceps* Macquart from the southern Neartic Region and northern Neotropical Region. Bahamas, Andros, Williams Island 1919 (Gold Cuy), West Coast, 16-17 March 1966 (Cartwright) (4 ♂ 4 ♀ USNM); Cuba: Type of *agrorium* Loew; Santiago de las Vegas, 20 April 1926 (1 ♂ USNM); Jamaica: -- (Perkins) (1 ♂ MCZ); Kingston, Raw Town, 4 March 1920 (Taylor) (1 ♀ USNM); St. Catherine, Riverdale, 28 February 1900 (Taylor) (1 ♂ USNM); Grand Cayman, Georgetown, 15-30 March 1965 (McIntosh) (3 ♂ 19 ♀ MCZ); Dominican Republic (1 ♂ USNM); Puerto Rico, Loísa, 10 January 1934 (Anderson & Mills) (1 ♂ USNM); Pueblo Viejo, 27 March 1933 (Anderson, Faxon & Mills) (1 ♂ USNM); Arceito, February 1889 (Busck) (1 ♀ USNM).
- PALPADA ATRIPIANA** (Loew)
Material examined: Cuba: Type of *atripiana* Loew; Santa Clara, Soledad, 9-17 June 1939 (Parsons) (1 ♂ USNM); Aguada Pta., February 1915 (1 ♂ USNM); C. Stewart, 23 October 1927 (Eccles) (1 ♀ USNM); Jamaica, Kingston, April (Johnson) (1 ♀ USNM); Haiti (1 ♂ 1 ♀ USNM); Dominican Republic, type of *willistonii* Townsend.
- PALPADA HORTORUM** (Fabricius)
Material examined: Bahamas, Cat Island, Archers Town, 1935 (Clench) (1 ♀ USNM); Cuba: Santa Clara, Soledad, 27 June 1912 (Bates & Fairchild) (1 ♂ USNM); San Antonio de los Baños (1 ♀ USNM); Mina Carlosa, Trinidad Mountains, 22 March 1925 (Salt) (1 ♂ USNM); Dominican Republic (3 ♂ USNM); Puerto Rico, Mayaguez, 15 April 1914, 7 May 1914, 26 May 1914, 1 June 1914, 2 August 1914 (Van Zwaluwenberg) (4 ♂ 2 ♀ USNM), 19 May 1953 (Wirth) (1 ♂ USNM); Ponce, 4 August 1933 (Oshley) (1 ♀ USNM); Dowado, 15 December 1933 (1 ♂ USNM); Altonito, 14-17 July 1914 (1 ♀ Weems); San Juan, 1-5 July 1915 (1 ♂ Weems); Lesser Antilles, Virgin Islands, lectotype.
- PALPADA PUSILLA** (Macquart)
Material examined: Numerous species including the lectotype of *pusilla* Macquart from North and South America, but no material seen from the West Indies.
- PALPADA VIRETORUM** (Fabricius)
Material examined: Numerous specimens from the southern Neartic Region and northern Neotropical Region. Cuba: Holmby (1 ♂ USNM); Havana, January-February 1915 (1 ♂ USNM); 16 June (Palmer & Riley) (1 ♂ USNM); "Est. Cent. Agr. de Cuba", 10 June 1909 (2 ♀ USNM); Cayman, February 25 (Schwarz) (1 ♂ USNM); Baracoa, August 1901 (Busck) (1 ♀ USNM); Guayama, 11 June (Palmer & Riley) (1 ♂ USNM); Cabañas, 21 May (Palmer & Riley) (1 ♂ USNM); Jamaica: --(1933) (Perkins) (2 ♂ 3 ♀ MCZ); St. Ann, Runaway Bay, February 1969 (Wirth) (1 ♂ USNM); Portland, Port Antonio, April (Johnson & Poy) (4 ♂ 2 ♀ USNM); St. Ann, Fellowship, Río Grande, 27 July 1962 (Farr & Flint) (1 ♂ USNM); St. Andrew, April 1978 (Taylor) (1 ♀ USNM); St. Catherine, Morphy Park, 2.2 miles north on Camperdown Road, 9-19 November 1968 malaise trap (Woodruff) (1 ♀ Weems); Manchester, Christiansia, 21 August 1960 (Heafall) (2 ♂ Weems); Haiti: --(1 ♀ USNM); Carrefour, 8 April 1927 (1 ♂ ANNH); Port-au-Prince, Bois Caradeux, 7-10 September 1934 (Dacasse) (1 ♂ 5 ♀ USNM); Dominican Republic: --(August) (Busck) (1 ♂ USNM); La Vega, Succ. La Palma Munic. (Marcano) (2 ♀ USNM); Puerto Rico: --(Bryant) (1 ♀ USNM); Socorro, 20 August 1961 (Spangler) (Flint) (2 ♂ USNM); Arceito, February 1889 (Busck) (1 ♂ USNM); Anasco, 21 June 1915 (1 ♂ USNM); El Yunque, 800 ft., (February) (Richmond) (1 ♀ USNM); Coamo, 19 June 1932 (Rivera) (1 ♀ USNM); Bayamon, 20 March 1934, 10 April 1934 (Anderson, Faxon & Mills) (1 ♂ 1 ♀ USNM); Sancti Spiritus, 20 May 1914 (1 ♂ USNM); San Juan, 23 January 1965 (Dodge) (1 ♀ USNM); 3 miles east of San Juan, 26 June 1966 (Walker) (1 ♀ Weems); Mayaguez, January 1889 (Busck) (1 ♀ USNM); 1 January 1963 (Spangler) (1 ♀ USNM); 2, 29 January 1912 (Hooker) (1 ♂ 1 ♀ USNM); 23 December 1911 (Hooker) (1 ♀ USNM); 4 January 1914 (Van Zwaluwenberg) (1 ♂ USNM); 30 December 1911 (1 ♂ USNM); 6 October, 20 November 1953 (2 ♀ Weems); Virgin Islands, St. Croix: --(12 May 1968) (Fierco) (3 ♂ 2 ♀ Weems); Sennie Drive, November 1967 (Fierco) (3 ♂ 3 ♀ Weems); Opposit Airport, 3 March 1968 (Pierce) (2 ♂ 6 ♀ Weems); Lesser Antilles: Dominica: Clarke Hall, 8 January-21 March 1965 malaise trap (Wirth) (3 ♂ 14 ♀ USNM); 20 January-3 March 1965 (Clarke & Clarke) (1 ♂ 3 ♀ USNM); 10 February 1965 (Evans) (1 ♀ USNM); 17 February 1964 (Johnson) (1 ♀ USNM); 27 April 1966 (Cagné) (2 ♂ USNM); 19-20 May 1966 (Clyde) (2 ♂ 1 ♀ USNM); 16 July 1965 (Jackson) (1 ♀ USNM); 12 October-12 November 1964 (Spangler) (29 ♀ USNM); Freshwater Lake, 21 January 1965 (Clarke) (1 ♀ USNM); 16 September 1964 (Spangler) (6 ♀ USNM); Mouth of Layou River, 6 February 1965 (Evans) (1 ♀ USNM); Portsmouth, 23 February 1965 (Evans) (1 ♀ USNM); Port Castor, 12-14 October 1964 (Spangler) (1 ♂ 1 ♀ USNM); Sylvanus, November 1967 (Krauss) (1 ♂ USNM); Fond Châlet, 5-9 October 1964 (Spangler) (2 ♂ 4 ♀ USNM); South Chillicothe, 8-10 December 1964 (Spangler) (1 ♂ USNM); Anasco, 28 September 1964 (Spangler) (1 ♀ USNM); Oxbitt Swamp, 3 November 1964 (Spangler) (1 ♂ USNM); Grand Bay, 13 April 1964 (Flint) (1 ♂ USNM); Martinique, July 1905 (Busck) (5 ♀ USNM); Barbados, May-July 1966 (Fierco) (6 ♂ 1 ♀ USNM).
- PALPADA VANTHROSCHELE** Thompson
Material examined: Lesser Antilles, Dominica, types.
- HEMIRAPHIS BRUNNIPES** Curran
Material examined: Cuba, holotype.
- HEMIRAPHIS BICOLOR** (Loew)
Material examined: Cuba, Isla de Pinos, November 1912 (1 ♀ MCZ); Isla de Pinos, Nueva Gerona, June 1911 (1 ♂ MCZ); Buenos Aires, Trinidad Mountains, 17-23 June 1939 (Parsons) (1 ♀ USNM, 1 ♂ Weems); Havana, 5 September 1949 (Johnson) (1 ♀ USNM); Mina Carlosa, Trinidad Mountains, 24 March 1925 (Salt) (1 ♂ USNM), 11-16 July 1939 (1 ♀ Weems).

- MEGACACUS FARRI** Thompson
Material examined: Jamaica, holotype.
- MEGACACUS HILSEI** (Macquart)
Material examined: Cuba, type of *opulentus* Bigot.
- MEGACACUS PINCUS** (Fabricius)
Material examined: Cuba, August 1924 (Beck) (1 ♂ Weems). Jamaica: Portland, Port Antonio, April-May (Johnson & Fox) (12 ♂ ♀ MCZ, USNM, Weems); (High) (1 ♂ USNM); Hardwar Gap, Green Hills, 24-25 July 1962 (Farr & Flint) (1 ♀ USNM); Hardwar Gap, 4000 ft., 6, 10 July & 25 August 1966 (Howden & Becker) (1 ♂ 2 ♀ CMU); 22 May 1969 (Woodcuff) (1 ♀ Weems); 23 November 1948 (Lloyd) (1 ♀ Weems); St. Thomas, Cuna Cuna Pass, 15, 16 July 1905 (Robinson) (1 ♂ 1 ♀ USNM); St. Andrew, Sir John Peak, 10 July 1948 (Goin) (1 ♀ Weems); St. Andrew, Irish Town, 28 July 1968 (Howden & Becker) (1 ♀ CMU); Dominican Republic: --- (1 ♂ 1 ♀ USNM); San Francisco Mountains, September 1905 (Buck) (1 ♀ USNM); Constanza, 23 May 1927 (Westmore) (1 ♀ USNM); Puerto Plata, 29 August-2 September 1938 (Darlington) (1 ♀ MCZ); Mt. Diego de Ocampo, 3-4000 ft., July 1928 (Darlington) (1 ♀ MCZ); Puerto Rico: Alibonito, 14 July 1913 (Crosnan) (1 ♂ USNM); Adjuntas, Finca Finca, 11 April 1933 (Oakley) (1 ♂ USNM); Luquillo National Forest, El Yunque Biological Station, Hollister Road, 2100 ft., 8 January 1963 (Spangler) (1 ♀ USNM); Cabauna, 27 August 1953 (Medina) (1 ♀ Weems); Horniquesos, 15 July 1932 (Diaz) (1 ♀ Weems); El Yunque, 3000 ft., 16 January 1965 (Dodge) (1 ♀ Weems).
- MEGACACUS PRATORUM** (Fabricius)
Material examined: Type of *maculata* Macquart. Haiti (1 ♂ USNM). Dominican Republic, Haiti (Bock) (1 ♀ USNM). Puerto Rico, Alibonito, 16 February 1935 (Martinez) (1 ♂ Weems). Virgin Islands: lectotype of *pratorum* Fabricius; St. Thomas: ---, 22 November 1925 (1 ♀ Weems); St. John, 4 February 1955 (1 ♀ USNM).
- MEGACACUS RUFICUS** (Wiedemann)
Material examined: Cuba: vicinity of Havana (Barbour) (1 ♂ USNM); Havana, September 1903 (Buck) (1 ♂ USNM); Santiago, 19 August 1927 (Scaramuzza) (1 ♀ USNM); Santa Clara, Soledad, 9-17 June 1939 (Person) (1 ♂ USNM); 20 June 1928 (Salt) (1 ♀ USNM); Ceballos, 21 June 1950 (1 ♀ USNM).
- MEGACACUS UNICOLOR** (Muls)
No material examined.
- CERIANA DAPHNINUS** (Walker)
Material examined: Jamaica: Portland, Port Antonio, April-May (Johnson) (1 ♂ MCZ); St. Thomas, Morant Point, 2 March 1956 (Farr) (1 ♂ USNM); St. Andrew & Kingston, Rock Fort., near Kingston, April (Johnson) (1 ♂ MCZ).
- CERIANA TRICOLOR** (Loew)
Material examined: Cuba: Santiago de las Vegas, 27 April 1926, 29 May 1926 (1 ♂ 1 ♀ AMNH); Holguin, 23 December 1904 (2 ♀ OHU).
- CERIANA WERNERI** Thompson
Material examined: Cuba, holotype.
- NEPLAS DELTYAE** Thompson
Material examined: Cuba, holotype.
- NEPLAS PACHYMERIA** (Loew)
Material examined: Cuba, type. Jamaica: St. Thomas, 14.5 miles east of Kingston on Morant Bay Road, 12 February 1961 (Farr) (1 ♂ USNM); 15 miles east of Kingston on Morant Bay Road, 26 April 1964 (Farr) (1 ♀ 1 ♂).
- NEPLAS PROXIMUS** (Mull)
Material examined: Cuba, holotype.
- NEPLAS PERTIOSUS** (Loew)
Material examined: Cuba, type. Jamaica, Portland, Hardwar Gap, 16 July 1962 (Farr) (1 ♀ 1 ♂); August 1962 (Farr) (1 ♀ 1 ♂); St. Thomas, Core Pass Gap, 27 June 1954 (Bengry) (1 ♂ USNM).
- SYRPHUS JAMICENSIS** (Gmelin)
Material examined: Six specimens including the holotype of *titicaca* Shannon from Peru and Bolivia. Cuba: Holotype of *darlingtoni* Mull; Fico Turqueso, Cumbre, 22 July 1922 (Beumer & Balou) (1 ♀ AMNH). Jamaica: Portland, Hardwar Gap, 23 August 1962 (Farr) (1 ♀ 1 ♂); St. Thomas, Blue Mountain Peak, 11 June 1954 (Farr) (1 ♂ USNM). Lesser Antilles, Dominica: Clarke Hall, 26-31 October 1964 (Spangler) (1 ♀ USNM); Fort Casse, 12 October-10 November 1964 (Spangler) (1 ♂ 6 ♀ USNM); 2 April 1965 (Davis) (1 ♀ USNM).

B. ADDENDUM

The initial manuscript was completed in 1975 and submitted for publication in 1976. After much delay, the manuscript was returned as the original publisher was unable to obtain funds for its publication. During the interim, I had the opportunity to examine a number of types of West Indian Syrphidae in various American and European museums. In all cases, the types agreed with the conclusions given in the text. However, to make this study more complete, I append the necessary lectotype designations. For each lectotype designation, I give the original combination of the name, the present location and the labels on and/or associated with the lectotype, and the present valid name, if the lectotype represents a junior synonym. Each lectotype here designated has been labeled with my printed yellow lectotype label, "LECTOTYPE Design. Thompson 197-."

Scaeva limbata Fabricius.—LECTOTYPE ♀ in Sehested and Tonder Collection, Universitetets Zoologiske Museum, Copenhagen, and labeled "S. limbata Catrs: Am:." A second ♀ has been labeled as paralectotype.

Syrphus radiatus Bigot.—LECTOTYPE ♂ in the La Sagra's Cuban Collection, Muséum National d'Histoire Naturelle, Paris, and labeled "Guerin Menne ville" (green circle) and "Syrphus radiatus n. sp. Bigot Cuba." The lectotype is headless and part of the abdomen is missing.

Syrphus clavatus Fabricius.—LECTOTYPE sex? in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen. Only one wing, part of the mesonotum, and a hindleg remain of the lectotype. Another single wing has the Fabrician determination label "clavatus."

Syrphus jactator Loew.—LECTOTYPE ♂ in the Loew Collection, Museum

of Comparative Zoology, Cambridge, and labeled "Cuba Poey," "431," "Loew Coll.," "Type 4089," and "jactator m."

Syrphus antiphates Walker.—LECTOTYPE ♂ in the British Museum (Natural History), London, and labeled "type / *Syrphus antiphates* Wlk." (a green circular Walker type label), "Jamaica / 45-111" (white circle), and "Ocyptamus (*Syrphus*) antiphates, Type. Wlk." (an Austen determination label).

Syrphus cylindricus Fabricius.—LECTOTYPE sex? in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen, and labeled "cylindricus." Only the wings, mesonotum, and hindlegs remain.

Baccha parvicornis Loew.—LECTOTYPE ♂ in the Loew Collection, Museum of Comparative Zoology, Cambridge, and labeled "Cuba Poey," "438," "parvicornis m," "Type 13123," and "Loew Coll." The lectotype is missing the left wing and abdomen.

Baccha cubensis Macquart.—LECTOTYPE ♀ in the Macquart Collection, Muséum National d'Histoire Naturelle, Paris; labeled "293, 39" and "*Baccha cubensis* ♀ Macq. n. sp."; and under the label "*Baccha cubensis* M. M. Brewood Cuba."

Baccha lepida Macquart.—LECTOTYPE ♂ in box 16, #660, of the Macquart Collection, Muséum National d'Histoire Naturelle, Paris; labeled "No 1309 *Baccha lepida*" and under the label "B. lepida Macqt."

Mesogramma arcifera Loew.—LECTOTYPE ♂ in the Loew Collection, Museum of Comparative Zoology, Cambridge, and labeled "(silver square)," "arcifera m.," "Type 13138," and "Loew Coll." A paralectotype female is on the same pin as the lectotype.

Syrphus quadrifasciatus Bigot.—LECTOTYPE ♀ in box 85, #2532 of the La Sagra's Cuban Collection, Muséum National d'Histoire Naturelle, Paris. The lectotype is a specimen of *Toxomerus floralis* (Fabricius).

Mesogramma confusus Schiner.—LECTOTYPE ♂ in the Naturhistorisches Museum, Wien, and labeled "c" (pink square), "Rio Janeiro Novara-R," and "confusa Alte Sammlung." There are also 3 ♂ paralectotypes from Venezuela.

Baccha incompta Austen.—LECTOTYPE ♂ in the British Museum (Natural History), London, and labeled "Amazon 66.53 / *Baccha incompta* Aust. type" and "type / *Baccha incompta* Aust." (round red BM(NH) type label). This specimen may be considered the holotype. Austen described *incompta* from two males, but in his description he referred to "the typical specimen . . .," a statement which could be construed as a holotype designation. In the text, I followed Curran as to the status of *incompta* in Puerto Rico. He suggested that the Puerto Rican population "may represent a distinct species" (Curran 1930a: 15). The lectotype and the Puerto Rican population are conspecific. During the course of settling the status of the Puerto Rican

populations, I examined the types of most of the described *Leucopodella* species. My conclusions are summarized below.

KEY TO SPECIES OF *LEUCOPODELLA* HULL

1. Alula bare 2
 - Alula microtrichose 11
2. Alula broad, broader than 2nd basal cell; apical cell partially bare beyond base; abdomen bluish black, without a distinct pattern 3
 - Alula narrow, narrower than 2nd basal cell; apical cell completely microtrichose; abdomen with orange markings 4
3. Abdominal petiole with long marginal hairs, these hairs 2-3× as long as petiole is wide; discal cell completely microtrichose; mesonotum almost entirely black pilose (Paraguay) *boabdilla* (Hull)
 - Abdominal petiole with very short hairs, at most these hairs only as long as petiole is wide; discal cell narrowly bare beyond brown basal macula; mesonotum extensively white pilose, with a fascia of black pile across middle (Paraguay) *bipunctipennis* (Hull)
4. Metathoracic epimera widely separated behind coxae 5
 - Metathoracic epimera narrowly separated behind coxae 7
5. Anterior crossvein beyond basal 1/3 of discal cell, at or beyond end of subcosta; occiput with 2-4 irregular rows of thick subappressed hairs; wing with a very narrow medial vitta and without apical spot; antenna orange 6
 - Anterior crossvein at basal 1/5 or less of discal cell, before end of subcosta; occiput with 2 rows of thin erect hairs, with hairs of anterior row short, of posterior row long, both rows regular; alula broad, slightly broader than 2nd costal cell, triangular, much wider apically than at base; wing with broad medial vitta and apical spot; 1st basal cell completely microtrichose on apical 1/3; 3rd antennal segment dark apically (Panama to Brazil) *bigoti* (Austen)
6. Anterior crossvein at level of end of subcosta; alula broader, more than 1 1/2× as broad as 2nd costal cell; wing more extensively microtrichose; 2nd costal cell microtrichose to basal 1/4; 1st basal cell microtrichose behind spurious vein on apical 1/4; 1st and 2nd terga black; occiput with only 2 rows of hairs (Mexico) species 80-1
 - Anterior crossvein beyond level of subcosta; alula narrower, subequal to 2nd costal cell; wing more extensively bare; 2nd costal cell bare on basal 1/2 or more; 1st basal cell entirely bare; 1st and 2nd terga reddish brown; occiput with 4 rows of hairs (Mexico to Costa Rica) *rubida* (Williston)
7. Apical crossvein straight; all crossveins bordered with brown 8
 - Apical crossvein sinuous and angulate; none of the crossveins distinctly bordered with brown 9

8. Wing tip completely brown; anterior crossvein beyond middle of discal cell; 1st basal cell bare on apical $\frac{1}{3}$ or more (Panama, Ecuador) *delicatula* (Hull)
 - Wing tip hyaline, only apical crossveins bordered with brown; anterior crossvein before middle of discal cell; 1st basal cell microtrichose on apical $\frac{2}{3}$ or more (southwestern USA, Mexico) *marmorata* (Bigot)
9. Alula absent; hindleg entirely brownish black (Ecuador) . . . species 80-2
 - Alula present, about as wide as 2nd costal cell; hindleg partially pale 10
10. Hindtarsus entirely orange, orange pilose 11
 - Hindtarsus extensively brownish black, black pilose; hindfemur orange on basal $\frac{2}{3}$ or more; 1st basal cell microtrichose on apical $\frac{1}{2}$; 2nd basal cell microtrichose on apical $\frac{1}{4}$ (Mexico to Brazil, West Indies) *gracilis* (Williston)
11. Hindfemur entirely brownish black; face distinctly produced on ventral $\frac{1}{2}$; basal cells completely bare except for narrow brown fascia (Ecuador) *boadicea* (Hull)
 - Hindfemur orange except for narrow brown subapical annulus; face straight, not produced; basal cells microtrichose on apical $\frac{1}{2}$ or more (Ecuador) species 80-4
12. Occiput with 2 rows on ventral $\frac{1}{2}$ or more, with 2 rows at ocular notch 13
 - Occiput with 2 rows of hairs on ventral $\frac{1}{4}$ or less, with 1 row at ocular notch; eye bare; male frontal triangle black pilose; female front shiny medially, white pollinose laterally on ventral $\frac{2}{3}$; alula broad, much broader than 2nd basal cell (Panama) *balboa* (Hull)
13. Eye pilose; alula narrow, only $\frac{2}{3}$ as broad as 2nd basal cell; male frontal triangle white pilose; female front shiny medially; wing with broad medial fascia (Panama) species 80-3
 - Eye bare; alula broad, broader than 2nd basal cell 14
14. Wing with medial brown fascia broad, extending to anterior crossvein (Panama) species 80-5
 - Wing with medial brown fascia narrow, not extending to anterior crossvein (Honduras to Paraguay, West Indies) . . *incompta* (Austen)

Baccha asthenia Hull is a junior synonym of *gracilis* Williston; *Baccha lanei* Curran is junior synonym of *bigoti* Austen; *Baccha bella* Hull is a junior synonym of *balboa* Hull; *Baccha olga* Hull is a junior synonym of *incompta* Austen (all NEW SYNONYMS), and *Baccha zenilla* Hull is a species of *Ocyptamus* (NEW COMBINATION). *Baccha bigoti* of Curran (1930a: 3) includes *bigoti* Austen and species 80-3; *Baccha incompta* of Curran (1930a: 15, Panama populations) is species 80-5. Material of the numbered species is in the U.S. National Museum and the American Museum of Natural History.

Baccha rubida Williston.—LECTOTYPE ♂ in the British Museum (Natural History), London, and labeled "Sierra de las Aguas Escondidas, Guerrero, 9500 ft. July H. H. Smith," "Co-Type" (round yellow BM type label). Another male (BM(NH)) and a female (AMNH) syntypes have been labeled as paralectotypes.

Microdon pulcher Williston.—LECTOTYPE ♀ in the U.S. National Museum, Washington, and labeled "San Dom," "Acc. 19,702 Williston," "Type No. 792 U.S.N.M." (red USNM type label), and "Microdon pulcher Will." (Williston determination label).

Syrphus obesus Fabricius.—LECTOTYPE ♂ in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen, and labeled "obesus." The lectotype is headless. Parts of three other specimens have been labeled paralectotypes.

Syrphus inanis Fabricius and *Syrphus esuriens* Fabricius.—LECTOTYPE ♀ in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen, and labeled "esuriens." The lectotype is headless. The lectotype is also the type of *Copestylum brunneum* (Thunberg), the senior synonym and replacement name for *inanis* Fabricius.

Volucella eugenia Williston.—LECTOTYPE ♂ in the U.S. National Museum, Washington, and labeled "Nassau Bahamas March '78," "Collection C. V. Riley," "Type No. 842 U.S.N.M." (red USNM type label), and "eugenia Will." (printed).

Syrphus vacuus Fabricius.—LECTOTYPE ♂ in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen, and labeled "vacuus." The lectotype is damaged, missing the head, legs beyond the base of the femora, and the genitalia.

Eristalis guadelupensis Macquart.—LECTOTYPE ♀ in box 54, #1676 of the Macquart Collection, Muséum National d'Histoire Naturelle, Paris; labeled "L. m. im Guadalupe," "No 1156 Eristalis guadelupensis"; and under the label "E. guadelupensis, Macqt Guadeloupe." The lectotype is a specimen of *Eristalis pertinax* (Scopoli).

Syrphus agrorum Fabricius.—LECTOTYPE ♂ in Sehested and Tonder Collection, Universitetets Zoologiske Museum, Copenhagen, and labeled "E. agrorum." A female has been labeled as paralectotype.

Eristalis willistoni Townsend.—LECTOTYPE ♂ in the U.S. National Museum, Washington, and labeled "San Dom," "Acc. 19,702 Williston," and "Eristalis atrimanus Lw." (Williston determination label). There are 3♂ and 1♀ paralectotypes in the USNM. The lectotype is a specimen of *Palpada atrimana* (Loew).

Syrphus hortorum Fabricius.—LECTOTYPE ♀ in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen. The lectotype is headless.

Eristalis pusillus Macquart.—LECTOTYPE ♂ in box 54, #1674 of the Macquart Collection, Muséum National d'Histoire Naturelle, Paris; labeled "La

Mana" and "No 1143 Eristalis pusillus"; and under the label "E. pusillus La Mana."

Milesia maculata Macquart.—LECTOTYPE ♀ in box 24, #915 of the Macquart Collection, Muséum National d'Histoire Naturelle, Paris; and labeled "4 45" and "Milesia maculata ♀ Macq. n. sp." The lectotype is a specimen of *Meromacrus pratorum* (Fabricius).

Syrphus pratorum Fabricius.—LECTOTYPE sex? in the Fabrician Collection of Kiel, now at Universitetets Zoologiske Museum, Copenhagen. All that remains of the lectotype is one wing and part of the mesonotum. The basicosta and epaulet are extensively orange pilose, characters which support the present interpretation of *pratorum*.

Ceriana fabricii Thompson, NEW SPECIES

Male.—*Head*: Face shiny black; cheek shiny black except for orange triangular basomedial macula; frontal triangle dark orange medially, black laterally; frontal prominence black, as long as face; vertical triangle black; occiput black except orange posteriorly on ventral $\frac{1}{4}$, white pollinose and pilose; antenna as long as frontal prominence, with 1st 2 segments black; 3rd segment blackish brown; arista orange. Antennal ratio 1.5:1.0:1.2.

Thorax: Humerus orange; mesonotum shiny black except brownish-orange notopleuron and orange postalar callus; scutellum shiny black except narrow orange margin and basolateral fasciate maculae; pleuron black except narrow orange posterior fascia on mesopleuron and orange anterior pteropleuron; squama and halter yellow. *Legs*: Coxae and trochanters black; hindtarsus blackish brown; elsewhere yellowish orange. *Wings*: Orange except brown apical $\frac{1}{4}$; microtrichiae distributed as in *tricolor* (Fig. 185f).

Abdomen: First and 2nd segments yellow; 3rd and 4th segments black except brownish-orange lateral margin on 3rd; genitalia dark reddish brown; cercus as in *tricolor* (Fig. 185b).

Holotype.—♂, BAHAMAS, San Salvador, Lighthouse Road, 6 June 1980, A. G. Scarbrough. Deposited in USNM.

Discussion.—*Ceriana fabricii* is readily separated from the other West Indian species by its black face and predominantly orange wing. The species is named for Johann Christian Fabricius, the first entomologist.

INDEX OF SCIENTIFIC NAMES

For each name the authority is given, and for specific names the present generic name is also given. Valid names are in Roman and invalid names in italics. Synonyms of species-group names are listed in their original spelling and thus do not necessarily agree in gender with the genus to which they are presently referred.

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