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A distributional checklist of the spider wasps (Hymenoptera: Pompilidae) of Florida

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A distributional checklist of the spider wasps
(Hymenoptera: Pompilidae) of Florida

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A distributional checklist of the spider wasps (Hymenoptera: Pompilidae) of Florida

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Abstract. The Florida fauna of Pompilidae is investigated and a total of 115 species are recorded. Among them, 30 are new records for the state. The species and subspecies are presented by subfamily and tribe accompanied by county-based distributional accounts for each of the lower taxa.

Resumen. Se investiga la fauna de Pompilidae de Florida, reportándose un total de 115 especies. De estas, 30 especies son nuevos registros para el estado. Se presenta la subfamilia y tribu correspondiente a las especies y subspecies. La distribución en condados se enumera para los taxones de más bajo rango.

Introduction

Spider wasps (Hymenoptera: Pompilidae) are a widespread group that contains about 5,000 described species (Pitts et al. 2006), 300 of which are distributed in North America. The fauna of North America has been studied in depth for some groups like Pompilinae (Bradley 1944; Evans 1950-51), Pepsinae and Ceropalinae (Townes 1957), but specific distributional data remain missing and more recent synonyms have not been included.

Members of Pompilidae are easily recognized in the field by their flight behavior. They are solitary wasps characterized by laying eggs on paralyzed spiders (Goulet and Huber 1993) and are easily seen flying over ground or low vegetation. Their ecological niche has created a great interest in ecologists and invertebrate zoologists, which along with a meticulous thoroughness in the field of insect systematics, has created a demand for information on which species occur in various locales.

The purpose of this paper is to provide a county-based distribution of each pompilid species and, when applicable, each respective subspecies in the state of Florida. Because Florida is a thoroughly collected state in terms of Malaise trapping, one could submit that the distribution ranges provided here are accurate. Some counties are rarely used as collection sites and the records listed are not necessarily the only counties in which each species occurs. This information may also prove useful in the investigation of potentially precinctive (endemic) spider-wasps and their habitat preferences and/or habitat isolation throughout Florida.

Distributional information is based on specimens in the Florida State Collection of Arthropods, Florida Department of Agriculture and Consumer Services, Division of Plant Industry (FSCA), University of Central Florida collection (UCFC), John M. Leavengood, Jr. private collection (JMLC), Entomological Museum, Utah State University (EMUS), and literature (Townes 1957; Kurczewski 1963; Krombein 1979). No distributions outside of Florida-collected specimens are listed.

The county notes are all abbreviated with three or four capital letters as Peck and Thomas (1998) and Leavengood and Serrano (2005). County abbreviations followed by a parenthetical question mark (“?”) indicate specimens with determination labels considered questionable (e.g. “*A. utilis delicata* Banks?”) in the absence of specimens from the same county that were determined with confidence. As Florida (Fig. 1)

is a geographically long peninsular state, the counties are here classified into four major groups: panhandle, northern peninsular, central peninsular and southern peninsular (as per Peck and Thomas 1998). In the text, the counties are listed alphabetically for the distribution of each species.

Panhandle counties: Bay, BAY; Calhoun, CAL; Escambia, ESC; Franklin, FRA; Gadsden, GAD; Gulf, GUL; Holmes, HOL; Jackson, JAC; Jefferson, JEF; Leon, LEO; Liberty, LIB; Okaloosa, OKA; Santa Rosa, SRO; Wakulla, WAK; Walton, WAL; Washington, WAS.

Northern Peninsular counties: Alachua, ALA; Baker, BAK; Bradford, BRA; Clay, CLA; Columbia, COLU; Dixie, DIX; Duval, DUV; Flagler, FLA; Gilchrist, GIL; Hamilton, HAM; Lafayette, LAF; Levy, LEV; Madison, MAD; Marion, MARI; Nassau, NAS; Putnam, PUT; St. Johns, SJO; Suwanee, SUW; Taylor, TAY; Union, UNI.

Central Peninsular counties: Brevard, BRE; Charlotte, CHA; Citrus, CIT; De Soto, DES; Glades, GLA; Hardee, HAR; Hernando, HER; Highlands, HIG; Hillsborough, HIL; Indian River, IND; Lake, LAK; Manatee, MAN; Martin, MART; Okeechobee, OKE; Orange, ORA; Osceola, OSC; Pasco, PAS; Pinellas, PIN; Polk, POL; Sarasota, SAR; Seminole, SEM; St. Lucie, SLU; Sumter, SUM; Volusia, VOL.

Southern Peninsular counties: Broward, BRO; Collier, COLL; Dade, DAD; Hendry, HEN; Lee, LEE; Monroe, MON; Palm Beach, PAL.

Family Pompilidae

[115 species + 9 subspecies = 124 taxa]

Subfamily Pepsinae

[43 species + 5 subspecies = 48 taxa]

Tribe Ageniellini

[19 species + 3 subspecies = 22 taxa]

Ageniella Banks

Ageniella [*Ageniella*] Banks

A. accepta (Cresson 1867), ALA, ESC, LEO, PIN, POL

A. conflicta Banks 1944, PIN, BRE

A. mintaka Brimley 1928, ALA, DUV, GAD, LIB, PUT

A. partita Banks 1919, PIN, HIG

A. seminole Townes 1957, ALA, BAK, BRE, MARI, HIG, LEO, ORA, SEM.

A. submetallica (Banks 1917), GAD. **New state record.**

A. utilis delicata Banks 1944, ALA, BAK, CLA, COLU, DAD, GAD, MARI, and ORA (“?”)

A. utilis utilis (Cameron 1891), ALA, GAD, ORA

A. vogeli Townes 1957, ALA, CLA, GAD, LIB, ORA, SEM. **New state record.**

Ageniella [*Ameragenia*] Banks

A. salti (Banks 1928), ALA, BRE, CIT, CLA, DAD, DES, DUV, HIG, HIL, IND, LAK, MAN, MARI, MART, MON, ORA, PAL, PAS, PUT, SAR, SEM, SRO, VOL.

Ageniella [*Leucophrus*] Townes

A. fulgifrons (Cresson 1867), GAD. **New state record.**

A. semitincta (Banks 1912), ALA, GAD, ORA

Ageniella [*Priophanes*] Banks

A. agenoides (Fox 1893), ALA, GAD, MARI, ORA, SEM. **New state record.**

A. arcuata (Banks 1910), ALA, GAD, HIG, HIL, JAC, LEO, MAN, ORA, SEM, SUW

A. faceta faceta (Cresson 1872), ALA, BAK, BRE, CLA, COLU, ESC, GAD, HIG, IND, LEO, MARI, ORA, PIN, SEM, SUW, VOL. **New state record.**

A. faceta ventralis Townes 1957, ALA, CLA, HIG, HIL, LAK, LEO, MARI, ORA, SEM

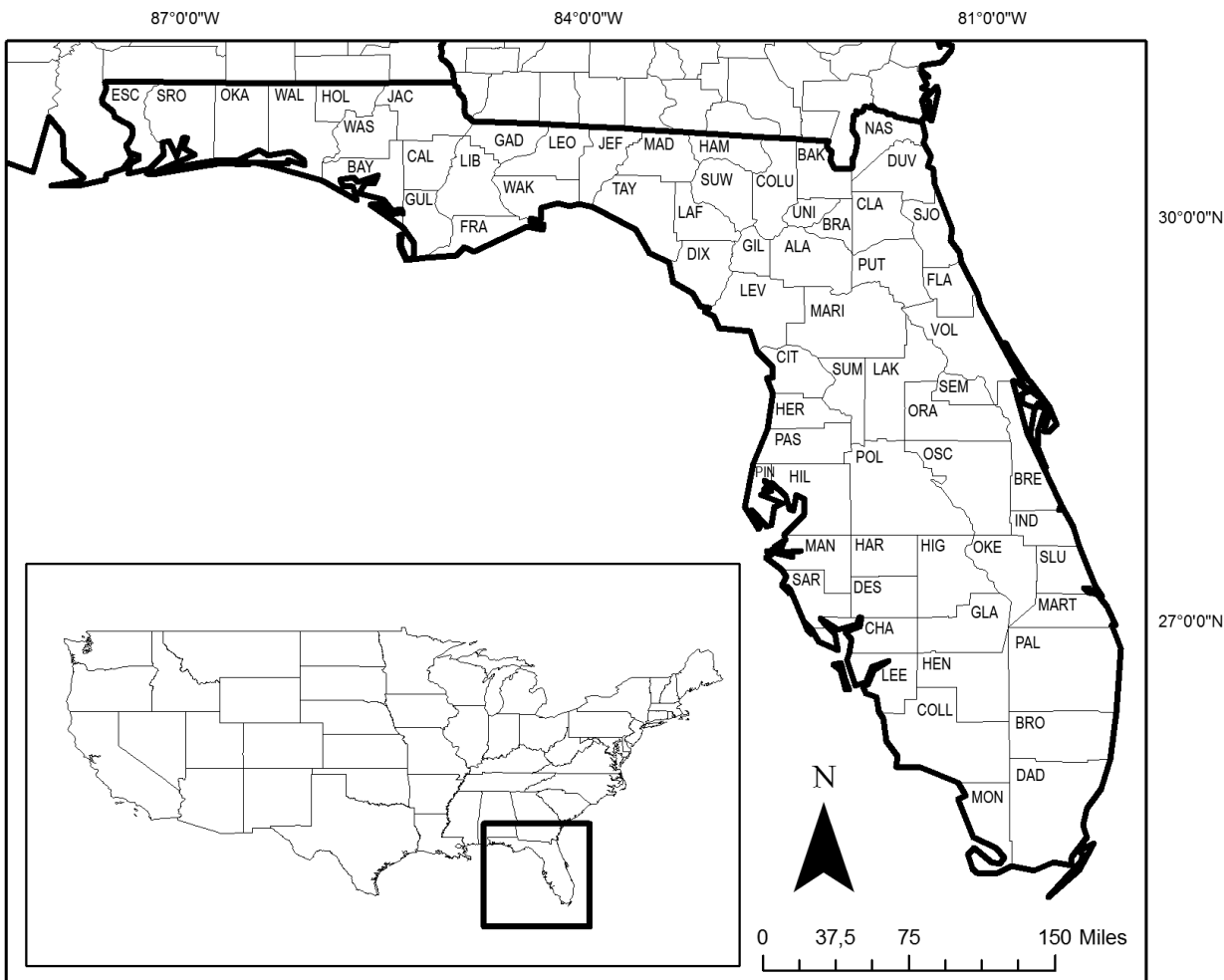


Figure 1. Map of Florida including county limits by acronym (see text).

Auplopus Spinola

- A. adjunctus* (Banks 1911), ALA, DAD, GAD, IND, LEE, LEO, LIB, ORA
A. architectus architectus (Say 1836), BAK, COLU, GAD, OKA
A. caerulescens floridanus (Banks 1912), ALA, BAK, CLA, COLU, DAD, DUV, HAR, HIG, HIL, LAK, MAN, MARI, OKA, ORA, PAS, PIN, PUT, SEM, VOL
A. mellipes mellipes (Say 1836), ALA, CLA, DES, GAD, HAR, HIG, HIL, LAK, MAN, ORA, OSC, PAL, SAR, SEM, SLU, SUM, SUW
A. mellipes meridianus Townes 1957, ALA, BAK, COLU, HAR, LEE, LEO, MAN, SAR

Phanagenia Banks

- P. bombycina* (Cresson 1867), CLA, MARI, MON, OKA, POL

Tribe Pepsini

[24 species + 2 subspecies = 26 taxa]

Caliadurgus Lepeletier (often labeled as *Calicurgus*, an unavailable name)

- C. fasciatellus* (Spinola 1808), = *C. hyalinatus alienatus* (Smith 1855), = *C. hyalinatus hyalinatus* (Cresson 1869), = *C. hyalinatus rupeus* (Cresson 1869), ALA, BAK, COLU, GAD, LEO, ORA, PUT, SEM, SRO, UNI, WAK, and BRE (“?”)

***Cryptocheilus* Panzer**

[Note: Some sources consider *Cryptocheilus* a synonym of *Entypus*]

C. idoneum idoneum Banks 1910, ALA, BRE, CLA, HIG, LEO, LEV, MARI, ORA, PUT, SEM, SJO

***Dipogon* Fox**

Dipogon [*Deuteragenia*] Susteria

D. calipterus calipterus (Say 1836), ALA. **New state record.**

D. calipterus duplicatus Townes 1957, SUM, and ORA, SEM (both “?”)

D. papago floridensis Townes 1957, ALA, COLL, DAD, HAR, HIG, HIL, IND, LAK, LEV, LIB, MAN, MARI, NAS, OKA, ORA, OSC, PIN, PUT, SAR, SEM

Dipogon [*Dipogon*] Fox

D. graenicheri atratus Townes 1957, ALA, HIG, OKA. **New state record.**

D. graenicheri graenicheri Banks 1939, ALA, BAK, BRE, CLA, COLU, DAD, HER, HIG, IND, LAK, MAN, MARI, ORA, OSC, PUT, SEM, SLU

***Entypus* Dahlbom**

E. fulvicornus (Cresson 1867), ALA, BRE, COLL, DAD, ESC, GAD, HIG, LEO, MARI, NAS, ORA, PAL, SEM, SRO

E. unifasciatus unifasciatus (Say 1828), ALA, HAM

***Minagenia* Banks**

M. externa (Banks 1910), IND (“?”). **New state record.**

M. julia (Brimley 1934), ALA, BAK, BRE, COLU, DAD, DUV, GAD, HER, HIG, IND, LEO, LIB, MARI, ORA, PAL, SAR, SEM, SUW

M. lata Townes 1957, ALA, DAD, GAD, HIG, IND, MARI, SUW. **New state record.**

M. major Townes 1957, ALA, GAD, MARI, PUT, and ORA (“?”)

M. montisdorsa Dreisbach 1953, ALA, BAK, CLA, COLL, COLU, DAD, HIG, IND, LEO, MARI, SAR, SUW. **New state record.**

M. osoria (Banks 1944), ORA, SEM. **New state record.**

***Pepsis* Fabricius**

menechma-group

P. menechma Lepeletier 1845, = *P. elegans* Lepeletier 1845, = *P. cerberus* Lucas 1894, ALA, DAD, HIG, OKA, ORA, SRO, VOL

ruficornis-group

P. ruficornis (Fabricius, 1775), ORA

marginata-group

P. marginata Palisot 1809, Townes (1957) recorded this species from south Florida.

***Priocnemis* Schiødte**

Priocnemis [*Priocnemis*] Schiødte

P. cornica (Say 1836), ALA, BAK, COLU, DAD, DES, GAD, HIG, LEO, LEV, MAN, MARI, MON, ORA, PAL, SAR, SEM

P. germana (Cresson 1867), ALA. **New state record.**

P. hestia (Banks 1915), LIB. **New state record.**

P. minuscula (Banks 1917), ALA, BAK, COLL, COLU. **New state record.**

Priocnemis [*Priocnemissus*] Haupt

P. minorata Banks 1912, ALA, LEV, ORA

***Priocnessus* Banks**

P. dakota (Cresson 1867), SRO. **New state record.**

- P. nebulosus* (Dahlbom 1843), ALA, BAK, BRE, CLA, COLU, DAD, GAD, HIG, IND, LIB, MAN, MARI, MON, OKA, ORA, PAL, PIN, SAR, SEM, UNI
P. nuperus (Cresson 1867), LEO. **New state record.**

Subfamily Pompilinae

[65 species + 4 subspecies = 69 taxa]

Tribe Aporini

[8 species]

Allaporus Banks

- A. pulchellus* (Banks 1910), GAD, LIB, OKA, SUW

Aporus Spinola

Aporus [*Aporus*] Spinola

- A. calcaratus* (Fox 1893), ALA, HIG, MARI, ORA
A. niger (Cresson 1867), ALA, BRE, CAL, CLA, FRA, HIG, JAC, LEO, LIB, MAN, MARI, OKA, ORA, SEM, SUW

Psorthaspis Banks

- P. brimleyi* (Malloch 1928), ALA, JAC, LIB. **New state record.**
P. legata (Cresson 1867), ALA, BAK, BRE, CAL, CLA, COLU, DIX, DUV, FRA, GAD, HIG, JAC, LEO, LIB, MARI, ORA, PUT, SEM, SJO, SUW
P. magna (Banks 1910), ALA, HIG, LEO, LIB. **New state record.**
P. mariae (Cresson 1867), ALA, FRA, HER, HIG, IND, MARI, ORA, SUW
P. sanguinea (Smith 1855), ALA, BRA, CLA, GIL, HIG, LAK, LEO, LEV, ORA, PUT, SEM

Tribe Pompilini

[57 species + 4 subspecies = 61 taxa]

Agenioideus Ashmead

Agenioideus [*Gymnochaes*] Banks

- A. birkmanni* (Banks 1910), ALA, BAK, CLA, COLU, GAD, HIG, LEO, MARI, ORA, PUT, SEM, SUW

Allochaes Banks

- A. azureus* (Cresson 1867), ALA, COLL, DAD, HIG, MARI, LAK, ORA, PAL, SEM, SUW

Anoplius Dufour

Anoplius [*Anopliodes*] Banks

- A. bolli* Banks 1917, ALA, GAD, LEV, ORA, PAL, POL. **New state record.**
A. parsoni (Banks 1944), ALA, BAK, BRE, CLA, COLU, DAD, HIG, IND, LEE, LEO, LEV, ORA, NAS

Anoplius [*Anoplius*] Dufour

- A. depressipes* Banks 1919, ALA, OKA, ORA, PAL, SEM
A. fulgidus (Cresson 1865), LEV, MON, ORA
A. hispidulus Dreisbach 1950, DAD, SRO. **New state record.**
A. illinoensis (Robertson 1901), GAD. **New state record.**
A. imbellis Banks 1944, ALA, HIG, ORA, SEM
A. papago Banks 1941, GAD, ORA
A. ventralis (Banks 1910), ALA, CLA, DAD, HIG, LEE, LEV, MARI, ORA, SEM
A. virginensis (Cresson 1867), MARI, MON. **New state record.**

Anoplius [*Arachnoproctonus*] Howard

- A. acapulcoensis* (Cameron 1893), = *A. bellicosus* (Banks 1912), ALA, LIB, OKA, ORA, SRO
A. americanus trifasciatus (Palisot de Beauvois 1811), ALA, BAK, BRE, BRO, COLL, COLU, DAD, DUV, GAD, HEN, HER, HIG, HIL, JAC, LAK, LEE, LEO, LEV, MAN, MON, NAS, OKA, ORA, PAL, PIN, PUT, SAR, SJO, SUW, VOL
A. apiculatus apiculatus (Smith 1855), GUL. **New state record.**
A. apiculatus autumnalis (Banks 1914), BAY, ESC, GUL, OKA, SJO, SRO
A. apiculatus pretiosus (Banks 1910), COLL, DAD, DES, ESC, MAN, SJO
A. marginalis (Banks 1910), ALA, BRA, BRO, CIT, CLA, COLL, DAD, DUV, HIG, LEE, LEV, MAN, MAR, NAS, ORA, PIN, PUT, SJO, SUW, UNI, and possibly BRE(“?”), SAR(“?”), SEM(“?”).
A. nigrinus (Dahlbom 1843), = *A. relativus* (Fox) 1893, ALA, BAK, BRE, CLA, COLL, COLU, DAD, GAD, HIG, LEO, MON, OKA, ORA, OSC, PAL, POL, PUT, SEM, SRO, SUW
A. semirufus (Cresson 1867), ALA, BAK, BAY, CLA, COLL, COLU, GAD, IND, LAK, LEV, MARI, ORA, PUT, SAR

Anoplius [*Lophopompilus*] Radoszkowski

- A. aethiops* (Cresson 1865), ALA, BAK, CLA, COLU, PAL, SUW
A. atrox (Dahlbom 1843), ALA, BAK, CLA, COLU, FRA, HIG, HIL, LEE, LEO, LIB, MARI, ORA, SEM, TAY
A. bengtssoni (Regan 1923), ALA, DAD, HIG, LEV, ORA, PAL, SEM, SRO, SUW

Anoplius [*Notiochaes*] Banks

- A. amethystinus amethystinus* (Fabricius 1793), BRO, COLL, DAD, HIG, MON, PAL, PAS
A. lepidus atramentarius (Dahlbom 1843), ALA, BRE, DAD, DUV, FRA, GAD, GIL, GUL, HAM, HER, HIG, HIL, JAC, LEO, LEV, LIB, MARI, MON, OKA, ORA, PAL, PUT, SAR, SEM, SRO, TAY, UNI, VOL, WAL, WAS

Anoplius [*Pompilinus*] Ashmead

- A. cylindricus* (Cresson 1867), ALA, LAK
A. fraternus (Banks 1941), MON
A. insolens (Banks 1912), ALA. **New state record.**
A. krombeini Evans 1950, ALA, LEE, HIG, SAR
A. marginatus (Say 1824), ALA, BRA, BRO, CLA, GAD, HIG, LEV, MON, PUT, SAR, WAL
A. percitus Evans 1950, ALA
A. splendens (Dreisbach 1949), ALA, BRO, DUV, GAD, SLU
A. stenotus bequaerti (Dreisbach 1949), ALA, CIT, PUT
A. stenotus stenotus (Banks 1914), ALA, BRA, CHA, GAD, HER, LEE, LEV, MAN, MON, NAS, ORA, PUT, SLU
A. subcylindricus (Banks 1917), ALA, MARI

Aporinellus Banks

- A. basalis* Banks 1933, GAD. **New state record.**
A. fasciatus (Smith 1855), ALA, DAD, GAD, HIG, HIL, LEO, LIB, MAN, MON, NAS, OKA, PIN, PUT, SAR, SEM, SRO, SUW, VOL, and ORA (“?”)
A. medianus Banks 1917, ALA, COLL, DAD, GAD, LIB, MAN, SAR, SRO, VOL, and ORA (“?”)
A. taeniatus taeniatus (Kohl 1886), ALA, BAK, CLA, COLU, DAD, GAD, HIG, LEE, LEO, LEV, LIB, MARI, MON, ORA, OSC, PUT, SEM, SRO, SUW
A. yucatanensis (Cameron 1893), ALA, COLL, GAD, and ORA (“?”). **New state record.**

Arachnospila Kincaid*Arachnospila* [*Anoplochares*] Banks 1939, = *Pompilus* [*Anoplochares*]

- A. apicatus* (Provancher 1882), ALA, BRE, DUV, FRA, HIG, LEV, MARI, NAS, ORA, SAR, SEM, TAY, SUW
A. similaris (Banks 1919), ALA, BRE, HIG, LEV, LIB, MARI, ORA

***Calopompilus* Ashmead**

- C. maculipennis* (Smith 1855), PUT. **New state record.**
C. validus (Cresson 1867), ALA, LIB

***Episyron* Schiødte**

- E. biguttatus biguttatus* (Fabricius 1798), ALA, BAK, BRE, CLA, COLU, FRA, GAD, LEV, LIB, MARI, OKA, ORA, PAS, PUT, SEM, SUW, VOL
E. conterminus posterus (Fox 1893), ALA, BAK, BAY, BRA, BRE, CLA, COLU, DAD, HER, HIG, HIL, IND, LEE, LEV, MAN, MARI, NAS, ORA, OSC, PAL, PUT, SAR, SEM, SUM, SUW
E. snowi (Viereck 1906), ALA, BAK, COLU, GAD, HIG, LEO, LEV, OKA, ORA, SEM, SUW.

***Evagetes* Lepeletier**

- E. asignus* Dreisbach 1956, ALA, COLU, DAD, DES, DUV, LEV, MAN, PAS, PUT, TAY, VOL
E. hyacinthus (Cresson 1867), ALA, BAK, BRE, BRO, CLA, DAD, GAD, HIG, LAK, LEO, OKA, ORA, PAL, PUT, SEM, SUW, UNI
E. ingenuus (Cresson 1867), ALA, CLA, ORA, SEM, PUT
E. mohave (Banks 1933), ORA
E. padrinus minusculus (Banks 1910), ALA, BAK, COLU, HIG, ORA, POL, PUT, SUW
E. parvus (Cresson 1865), ALA, BAK, COLU, LIB, HIG, SLU, SUW

***Paracyphonyx* Gribodo**

- P. funereus* (Lepeletier 1845), ALA, BAK, BRA, BRE, CIT, CLA, COLU, DAD, ESC, GAD, HIG, IND, LEE, LEO, LEV, LIB, MAN, MARI, MON, NAS, OKA, ORA, OSC, PAL, PUT, SAR, SEM, SRO, SUW, UNI

***Poecilipompilus* Howard**

- P. algidus algidus* (Smith 1855), ALA, BRE, COLU, DAD, DIX, HEN, HIG, LAK, LEE, LEV, LIB, MON, ORA, PAL, POL, PUT, UNI
P. interruptus dubitatus (Cameron 1893), ALA
P. interruptus interruptus (Say 1835), ALA, BRE, CLA, DAD, DIX, DUV, GAD, HAR, HIG, IND, JAC, LEE, LEV, LIB, MARI, MART, OKA, ORA, OSC, PAL, PAS, PUT, SEM, SLU, SRO, SUM, SUW

***Sericopompilus* Howard**

- S. angustatus* (Cresson 1865), ALA, CLA, HIG, LEO, LEV, MARI, SEM. **New state record.**
S. apicalis (Say 1835), ALA, BAK, BRE, CLA, COLU, DAD, DES, GAD, GIL, HAR, HIG, HIL, IND, LAK, LEE, LEO, LEV, LIB, MAN, MARI, OKA, ORA, OSC, POL, PUT, SAR, SEM, SRO, SUW, UNI, VOL
S. neotropicalis (Cameron 1893), ALA, BRE, LEO, LEV, ORA, SUW, UNI

***Tachypompilus* Ashmead**

- T. ferrugineus ferrugineus* (Say 1824), ALA, BRO, CLA, DAD, DUV, GAD, GUL, HER, HIG, LAK, LEE, LEO, LEV, LIB, MAN, MARI, MON, OKA, ORA, PAL, PUT, SEM, SLU, SRO, UNI, VOL

Subfamily Ceropalinae

[6 species]

Tribe Ceropalini

[6 species]

***Ceropales* Latreille**

- C. bipunctata tibialis* Banks 1910, ALA
C. elegans quaintancei Viereck 1902, LEV, UNI
C. femoralis Cresson 1869, ALA, BRE, MARI, MON, ORA, SEM, SRO

C. longipes Smith 1855, ALA, BAK, CLA, COLU, LIB, MARI, SUW. **New state record.**

C. maculata fraterna Smith 1855, ALA, BAK. **New state record.**

C. rugata Townes 1957, MON

Subfamily Ctenocerinae

[1 species]

Tribe Ctenocerini

[1 species]

Epipompilus Kohl

E. pulcherrimus (Evans 1955), BRE, HIG, ORA (“?”), and the Bahamas.

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