

## First records of the subfamily Acaenitinae in Florida (Hymenoptera: Ichneumonidae)

Acaenitines have five genera and 18 species in North American forests (Townes 1960). Several of these occur in the eastern United States, but none is recorded from Florida; however, recent fieldwork in Florida yielded four species: *Arotes decorus* (Say), *Spilopteron formosum* (Cresson), *S. occiputale* (Cresson) and *S. vicinum* (Cresson). These inhabit mature forests and attack wood-boring beetle larvae in dead trunks. There are no Florida host records, but Townes (1960) and Cushman and Rohwer (1920) report that in the northeastern states *A. decorus* was reared from *Tomoxia* (Mordellidae) in *Carya* (Juglandaceae), *S. formosum* from *Bellamira* (Cerambycidae) in *Betula* (Betulaceae), *S. occiputale* from *Strangalina* (Cerambycidae) in *Quercus* (Fagaceae) and *S. vicinum* from *Leptura* (Cerambycidae) in *Pinus* (Pinaceae).

Florida records are detailed in the list that follows. All material is in the Florida State Collection of Arthropods.

*Arotes decorus* (Say): **Material examined.** 21 females. Alachua Co., Beville Heights, Gainesville, La Crosse, Paynes Prairie; Lake Co., Tavares; Liberty Co., Torreya St. Pk.; Suwannee Co., Suwannee River St. Pk. **Habitat.** hardwoods, often riparian. **Phaenology.** 2 in IV, 6 in V, 3 in VI, 8 in VII, 1 in X, 1 in XI.

*Spilopteron formosum australe* (Townes): **Material examined.** 5 females, 1 male. Alachua Co., Gainesville, La Crosse; Liberty Co., Torreya St. Pk. **Habitat.** Moist hardwoods, often riparian. **Phaenology.** 4 in IV, 2 in V.

*Spilopteron occiputale* (Cresson): **Material examined.** 37 females, 56 males. Alachua Co., Devil's Millhopper St. Preserve, Gainesville, La Crosse, Paynes Prairie, San Felasco Hammock; Clay Co., Goldhead Branch St. Pk.; Gilchrist Co., Wilcox; Levy Co.; Liberty Co., Torreya St. Pk.; Marion Co., Ocala Natl. For.; Suwannee Co., Suwannee River St. Pk. **Habitat.** Mesic to moist hardwoods, sometimes riparian. **Phaenology.** 6 in IV, 82 in V, 5 in VI.

*Spilopteron vicinum* (Cresson): **Material examined.** 15 females and 4 males. Alachua Co., Gainesville, Micanopy, Paynes Prairie, San Felasco Hammock; Clay Co., Goldhead Branch St. Pk.; Levy Co., Manatee Springs St. Pk.; Liberty Co., Torreya St. Pk. **Habitat.** Mesic to moist pines and hardwoods. **Phaenology.** 3 in III, 8 in IV, 8 in V.

**Taxonomy.** An excellent, well-illustrated revision of the North American Acaenitinae is provided by Townes (1960).

**Biogeography.** Acaenitines have centers of diversity in the eastern Palaearctic, Oriental, and Ethiopian regions. Remarkably, none is known from South America, the Mesoamerican Neotropics have only two species of *Arotes*, and the genera found in North America are more speciose in the Palaearctic and/or the Oriental regions. For example, *Arotes* has seven Palaearctic species (Europe, China, Japan), while *Spilopteron* in the Old World is limited to the eastern Palaearctic, with 16 species in China and Japan.

**Acknowledgments.** Drs. Lionel A. Stange and Mike Thomas provided access to the FSCA and help in the field. The Florida Department of Recreation and Parks issued collecting permits.

### Literature cited

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