

New State Record and Northeastern Range Extension for *Caenocholax fenyesei* Sensu Lato (Strepsiptera: Myrmecolacidae)

Authors: Kathirithamby, Jeyaraney, Taylor, Steven J., and Lareau, Richard

Source: Florida Entomologist, 90(4) : 762

Published By: Florida Entomological Society

URL: [https://doi.org/10.1653/0015-4040\(2007\)90\[762:NSRANR\]2.0.CO;2](https://doi.org/10.1653/0015-4040(2007)90[762:NSRANR]2.0.CO;2)

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

NEW STATE RECORD AND NORTHEASTERN RANGE EXTENSION FOR *CAENOCHOLAX FENYESI* SENSU LATO (STREPSIPTERA: MYRMECOLACIDAE)

JEYARANNEY KATHIRITHAMBY¹, STEVEN J. TAYLOR² AND RICHARD LAREAU³

¹Department of Zoology, South Parks Road, Oxford OX1 3PS, United Kingdom

²Division of Biodiversity and Ecological Entomology, Illinois Natural History Survey,
1816 South Oak Street (MC-652), Champaign, IL 61820-6953

³1393 Thayer Hall Dr., Mt. Pleasant, SC 29466-9478

The strepsipteran *Caenocholax fenyesei* Pierce *sensu lato* has been recorded from Mexico and the southern United States (Alabama, Arizona, California, Florida, Georgia, Louisiana, Mississippi, and Texas) (Kathirithamby & Taylor 2005). Males of this species are endoparasites of ants (Kathirithamby et al. 2007), including the red imported fire ant, *Solenopsis invicta* Buren (Kathirithamby & Johnston 1992). The females of *C. f. waloffi* Kathirithamby & Johnston, in Mexico, stylopize *Hapithus agitator* Uhler (Orthoptera: Gryllidae: Eneopterinae) (Kathirithamby & Johnston 2004), but the female host in the United States has not been found.

An adult male *C. fenyesei* was collected from a UV light/pan trap (UTM zone 17 610840mE 3632980mN NAD83) in suburban Mt. Pleasant, South Carolina on 29 Jul 2006 from yellow pan trap set on a lawn for 36 h, 15 m from a UV light trap. A second adult male of this species was collected at the same location from a UV light trap on 20 Aug 2006. These collections extend the range of this species to the northeast. It is unclear whether or not the South Carolina *C. fenyesei* are stylopizing *S. invicta*, but the range of this ant now includes South Carolina (USDA-ARS 2007), and fire ant mounds are abundant in the area where the strepsipteran was collected. This is the fifth genus and sixth species of Strepsiptera to be reported from South Carolina (Kathirithamby & Taylor 2005; Reeves & Cook 2005).

SUMMARY

Caenocholax fenyesei Pierce *sensu lato* (Strepsiptera: Myrmecolacidae), a known parasite of

Solenopsis invicta Buren 1972 (Hymenoptera: Formicidae), is reported for the first time from South Carolina based on the presence of adult males in pan trap and UV light collections in Jul and Aug 2006.

REFERENCES CITED

- KATHIRITHAMBY, J., AND J. S. JOHNSTON. 1992. Stylopization of *Solenopsis invicta* Hymenoptera: Formicidae) by *Caenocholax fenyesei* (Strepsiptera: Myrmecolacidae) in Texas. Ann. Entomol. Soc. America 85: 293-297.
- KATHIRITHAMBY, J., AND J. S. JOHNSTON. 2004. The discovery after 94 years of the elusive female of a myrmecolacid (Strepsiptera), and the cryptic species of *Caenocholax fenyesei* Pierce *sensu lato*. Proc. Royal Soc. London, B (3) 271: S5-S8.
- KATHIRITHAMBY, J., AND S. J. TAYLOR. 2005. A new species of *Halictophagus* (Insecta: Strepsiptera: Halictophagidae) from Texas, and a checklist of Strepsiptera from the United States and Canada. Zootaxa 1056:1-18.
- KATHIRITHAMBY, J., S. J. TAYLOR, E. VALENZUELA, J. GÓMEZ, AND J. F. BERRERA. 2007. A light-trapped ant, *Dolichoderus bispinosus* (Formicidae) with evidence of stylopization by male *Caenocholax fenyesei waloffi* (Strepsiptera: Myrmecolacidae). Entomol. News (in press).
- REEVES, W. K., AND J. L. COOK. 2005. First record of *Triozocera vernalis* Kifune and Brailovsky (Strepsiptera: Corioxenidae) from the United States, with additional records for Strepsiptera in South Carolina. Entomol. News 116:191-192.
- UNITED STATES DEPARTMENT OF AGRICULTURE, AGRICULTURE RESEARCH SERVICE [USDA-ARS]. 2007. Areawide Fire Ant Suppression <<http://www.ars.usda.gov/fireant/Imported.htm>> (last modified 10 Jun 2007, accessed 11 Jun 2007).