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First record of *Mastogenius crenulatus* Knull
(Coleoptera: Buprestidae) in Massachusetts

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Abstract. *Mastogenius crenulatus* Knull (Coleoptera: Buprestidae) is reported from Massachusetts for the first time, **new state record**. The single male specimen was collected in a Lindgren funnel during 2014. This expands the range of this species in the Northeast to two states.

Key words. Lindgren funnel, new record

Introduction

The genus *Mastogenius* Solier contains seven North American species, which were recently reviewed by Bellamy (2002). Of these, two occur in the northeast: *M. crenulatus* Knull and *M. subcyaneus* (LeConte). Both species have a broad distribution reaching from the Atlantic coast west into Texas and Missouri, with *M. crenulatus* additionally reported from Ontario (Nelson et al 2008; Paiero et al. 2012). Presented is the first record of *M. crenulatus* from Massachusetts, adding to its northeastern range of Connecticut.

Materials and Methods

Trapping was carried out by the USDA APHIS Otis Laboratory for a trap efficacy study for Buprestidae. Twelve-unit Lindgren funnels were hung in Massachusetts at 110 locations in five counties: Barnstable, Berkshire, Bristol, Essex, and Plymouth. Traps were hung during June and serviced every two weeks until September in 2014. Specimens were placed into ethanol after removal until sorting and identification. Specimens were deposited in the Pennsylvania Department of Agriculture Collection, Harrisburg, Pennsylvania (PADA).

Results

A single male *M. crenulatus* was collected in a trap hung on a red oak (*Quercus* sp. section Lobatae). The sample was collected during 15 July 2014 in Barnstable County, Massachusetts (41.64914°N, -70.57889°W) by Joe Francese of the USDA APHIS Otis Laboratory. This specimen represents a new northeastern record for *M. crenulatus*, adding to its recorded presence in Connecticut. The trap was placed on a “red” oak, which matches one of the recorded hosts of *M. crenulatus*, willow oak (*Quercus phellos* Michx.) (Paiero et al. 2012). Willow oak is not reported from Massachusetts, but is often used as an ornamental tree (USDA and NRCS 2016). Other recorded hosts (larval: *Quercus alba* L. and *Cercis canadensis* L.; adult associations: *Acer saccharum* (Chapm.) Pax and *Salix* sp.) are recorded from Massachusetts.

Mastogenius crenulatus can be distinguished from *M. subcyaneus* by a more robust body, lack of blue reflections on the elytron, and denser punctuation on the pronotum (Bellamy 2002; Paiero et al. 2012).

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