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Additional state records for Coleoptera of South Carolina

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Abstract. Nineteen new state records for South Carolina of species of Coleoptera in eight families are documented.

Key words. Buprestidae, Carabidae, Cerambycidae, Cleridae, Curculionidae, Dytiscidae, Hydraenidae, Hydrophilidae.

Introduction

During the last 18 years a series of publications has documented the occurrence of species of 46 families of Coleoptera of South Carolina (Ciegler 2000, 2003, 2007, 2010, 2014; Harpootlian 2001; Harpootlian and Bellamy 2014; Caterino and Ferro 2017). Before that time, the only listing of South Carolina records was by Kirk (1969, 1970). Since their publication, specimens representing nineteen additional state records for South Carolina have been discovered and are herein listed.

Materials and Methods

New state records include members of eight families of Coleoptera, all of which have been collected within the last eighteen years in South Carolina. Those members of Carabidae were deemed to be new state records by comparison with Ciegler (2000); those of Dytiscidae, Hydraenidae, and Hydrophilidae with Ciegler (2003); that of Curculionidae with Ciegler (2010); that of Buprestidae with Harpootlian and Bellamy (2014); that of *Astyloopsis fascipennis* Schieffer with Schieffer (2000); and those of Cleridae and the remaining Cerambycidae with Kirk (1969, 1970).

Each species is listed with county, locality, date, collecting technique, quantity, sexes where known, collector, and additional information.

Specimens remain in the personal collections of each collector.

New State Records

Family Buprestidae

Texania campestris (Say)

Charleston Co., Charleston (West Ashley), Carolina Bay Drive, 27 April 2008, on prostrate trunk of cut *Ilex* (Aquifoliaceae), 1 specimen, coll. R. M. Gemmill.

Charleston Co., Charleston (West Ashley), Carolina Bay Drive, 10 April 2012, resting on sidewalk, 1 specimen, coll. R. M. Gemmill.

Charleston Co., Charleston (West Ashley), Carolina Bay Drive, 26 May 2013, on cut trunk of *Acer* (Sapindaceae), 1 specimen, coll. R. M. Gemmill.

Family Carabidae***Cicindela striga* LeConte**

Colleton Co., Edisto Island, Rt. 114, Freedman at Fishing Creek, 28 June 2013, at MV light, 1 specimen, coll. R. M. Gemmill.

Only one historical record for this species has been recorded previously from South Carolina (Charleston Co., Charleston, 1 July 1924). Therefore, while not technically a new state record, this recent find confirms that this elusive Florida species occurs in South Carolina.

***Lebia collaris* Dejean**

Dorchester Co., Reevesville, McAlhany Nature Preserve, Bluff trail, 11 May 2013, at UV light, 1 specimen (♂), coll. J. C. Ciegler.

***Mochtherus tetraspilotus* (W. S. MacLeay)**

Dorchester Co., Reevesville, McAlhany Nature Preserve, River trail, 11 May 2013, at UV light, 1 specimen (♀). coll. J. C. Ciegler.

Family Cerambycidae***Anelaphus moestus* (LeConte)**

Charleston Co., Meggett, Roxbury Park, 12 June 2016, at UV light, 1 specimen, coll. R. M. Gemmill, K. Carman.

Charleston Co., Meggett, Roxbury Park, 22 June 2016, at UV light, 2 specimens, coll. R. M. Gemmill, K. Carman.

***Astylopsis fascipennis* Schiefer**

Charleston Co., West Ashley, Carolina Bay Drive, 15 May 2012, beaten from cut miscellaneous hardwoods, 1 specimen, coll. R. M. Gemmill, K. Carman.

Charleston Co., Meggett, Roxbury Park, 8 June 2016, beaten from *Liquidambar styraciflua* L. (Altingiaceae) branches, 1 specimen, coll. R. M. Gemmill, K. Carman.

This sixth species of *Astylopsis* (previously *Amniscus*) was described only in 2000, and little is known of its biology. Specimens have been beaten from dead *Ulmus* (Ulmaceae) and *Liquidambar* limbs, which fits with the specimens reported here (from branches of *L. styraciflua*). Schiefer listed specimens from Arkansas, Louisiana, Mississippi, Alabama, Georgia, and Florida, but not from South Carolina. Thus, the discovery of *A. fascipennis* in South Carolina is not surprising and serves to verify its distribution across the southeast U.S.

***Clytoleptus albofasciatus* (Castlenau and Gory)**

Charleston Co., Meggett, Roxbury Park, 8 May 2016, beaten from living *Vitis* (Vitaceae) vine, 1 specimen, coll. R. M. Gemmill, K. Carman.

***Enaphalodes cortiphagus* (Craighead)**

Charleston Co., West Ashley, Carolina Bay Drive, 20 August 2007, at MV light, 1 specimen, coll. R. M. Gemmill, K. Carman.

Charleston Co., Meggett, Roxbury Park, 23 July 2016, at UV light, 1 specimen, coll. R. M. Gemmill, K. Carman.

Charleston Co., Meggett, Roxbury Park, 27 July 2016, at UV light, 1 specimen, coll. R. M. Gemmill, K. Carman. Two additional individuals observed but not collected.

***Goes tumifrons* Linsley and Chemsak**

Charleston Co., Charleston (West Ashley), Carolina Bay Drive, at MV light, 24 July 2007, 1 specimen, coll. R. M. Gemmill.

***Goes variegatus* Linsley and Chemsak**

Dorchester Co., Branchville, 5143 Wire Road, McAlhany Nature Preserve, 23 May 2014, at UV light, 3 specimens, coll. R. M. Gemmill.

***Neoclytus jouteli* Davis**

Dorchester Co., Branchville, 5143 Wire Rd. McAlhany Nature Preserve, 16 May 2015, running on bark of upper branches of cut *Quercus* (Fagaceae), 6 specimens, coll. R. M. Gemmill.

Sumter Co., Manchester State Forest, Dow Lake Rd., 20 July 2008, beaten from broken *Quercus hemispherica* Bartram ex Willd. branches, 2 specimens, coll. R. M. Gemmill,

Sumter Co., Manchester State Forest, Dow Lake Rd., 29 April to 4 July 2009, emerged from dead *Q. hemispherica* branches, 11 specimens, coll. R. M. Gemmill.

***Zagymnus clerinus* (LeConte)**

Charleston Co., Charleston, MUSC campus, 3 July 2007, coll. R. M. Gemmill.

Charleston Co., Edisto Island, Botany Bay plantation, 11 June 2016, on *Sabal palmetto* (Walt.) Lodd. (Arecaceae) petioles, coll. R. M. Gemmill, J. R. Gemmill, K. Carman, T. Austin.

Observed 11 June 2016, 18 June 2016. Petioles of *S. palmetto* with adult emergence holes were common along high tide line.

***Zaplous annulatus* (Chevrolat)**

Charleston Co., Charleston (West Ashley), Carolina Bay Drive, 15 June 2008, beaten from dead branches of unknown species, 1 specimen, coll. R. M. Gemmill.

Charleston Co., Meggett, Roxbury Park, 12 June 2016, beaten from dead *Liquidambar styraciflua* branches and dead branches of unknown species, 2 specimens, coll. R. M. Gemmill.

Charleston Co., Meggett, Roxbury Park, 18 June 2016, beaten from dead *Liquidambar styraciflua* branches and dead branches of unknown species, 2 specimens, coll. R. M. Gemmill.

Family Cleridae***Enoclerus angustus* (LeConte)**

Dorchester Co., Branchville, McAlhany Nature Preserve, 5143 Wire Road, 16 May 2015, beaten from living *Vitis*, 1 specimen, coll. R. M. Gemmill.

E. angustus is distinguished from the closely related *E. rosmarus* by having a red rather than a black abdomen. Prior to 1950, *E. angustus* was listed as a subspecies (*E. rosmarus virginianensis* Schaeffer 1917) and thus older records for *rosmarus* could have included the former.

Family Curculionidae***Diaprepes abbreviatus* (Linnaeus)**

Charleston Co., Patriot's Point, 32.785N 79.903W, 8 Nov 2013, 2 specimens, coll. B. G. Scholtens.

Charleston Co., Patriot's Point, 32.785N 79.903W, 30 Sep 2016, 1 specimen, coll. B. G. Scholtens.

Family Dytiscidae

Heterosternuta pulchra (LeConte)

Calhoun Co., St. Matthews, Wannamaker Nature Preserve, 15 May 2010, at UV light, 1 specimen (♀), coll. J. C. Ciegler.

Dorchester Co., Reevesville, McAlhany Nature Preserve, Bluff trail, 11 May 2013, at UV light, 1 specimen, coll. J. C. Ciegler.

Family Hydraenidae

Hydraena pennsylvanica Kiesenwetter

Dillon Co., Fork, 17 November 2007, in leaf litter, 2 specimens, det. P. D. Perkins 2008, coll. J. C. Ciegler.
Dorchester Co., Reevesville, McAlhany Nature Preserve, Bluff trail, 11 May 2013, at UV light, 1 specimen, coll. J. C. Ciegler.

Hydraena spangleri Perkins

Dillon Co., Fork, 17 November 2007, in leaf litter, 1 specimen, det. P. D. Perkins 2008, coll. J. C. Ciegler.
Lexington Co., West Columbia, 12 November 2006, in leaf litter, 4 specimens, det. P. D. Perkins 2008, coll. J. C. Ciegler.
Richland Co., Gadsden, 27 June 2002, at UV light, 1 specimen, det. P. D. Perkins 2008, coll. J. C. Ciegler.

Family Hydrophilidae

Hydrochus callosus LeConte

Hampton Co., Garnett, Webb Wildlife Management Area, 12 September 2004, probably collected by dip-netting, 1 specimen, coll. J. C. Ciegler.

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