

A journal of world insect systematics

INSECTA MUNDI

1095

New records for 23 species of Nearctic false click beetles including new country records for *Protofarsus convexus* (Fisher) (Coleoptera: Eucnemidae: Dirhagini)

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Date of issue: December 20, 2024

Center for Systematic Entomology, Inc., Gainesville, FL

Otto RL. 2024. New records for 23 species of Nearctic false click beetles including new country records for *Protoparsus convexus* (Fisher) (Coleoptera: Eucnemidae: Dirhagini). *Insecta Mundi* 1095: 1–11.

Published on December 20, 2024 by
Center for Systematic Entomology, Inc.
P.O. Box 141874
Gainesville, FL 32614-1874 USA
<http://centerforsystematicentomology.org/>

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Electronic copies (online ISSN 1942-1354) in PDF format

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New records for 23 species of Nearctic false click beetles including new country records for *Protofarsus convexus* (Fisher) (Coleoptera: Eucnemidae: Dirhagini)

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Abstract. New state records for 22 species of Eucnemidae (Coleoptera: Elateroidea) are reported from the eastern United States, based on examination and identification of specimens from four institutional and two private collections throughout 2024. Additionally, specimens of *Protofarsus convexus* (Fisher) from Texas represent new USA records for the species, known previously from Panama and Nicaragua. Images of several eucnemid species are provided. An identification key for *Protofarsus* Muona in the United States is provided.

Key words. Elateroidea, new records, United States, distribution.

ZooBank registration. urn:lsid:zoobank.org:pub:8870AE27-8CE8-4B9B-8E6E-4135C695F5FF

Introduction

Eucnemids from four institutional and two personal collections were examined and identified throughout 2024 in an effort to more completely map distribution data and collection methods for Nearctic Eucnemidae. Several specimens of *Protofarsus* Muona collected in Texas are particularly worth noting. These specimens were compared with others previously identified as *Protofarsus caribicus* Muona in the collection of the Global Eucnemid Research Project (GERP); differences in the anterolateral pronotal ridge among those specimens were noted. These specimens were further compared with *Protofarsus convexus* (Fisher) collected in Panama. External morphologies among the Texas specimens and one taken in Panama match very well. Based on these comparisons, the Texas specimens are considered to represent a new country record.

Materials and Methods

Several species covered in this study were imaged to help provide additional resources for future identifications. Habitus and lateral images were taken with a JVC KY-F75U digital camera attached to a Leica® Z16 APO dissecting microscope with apochromatic zoom objective and motor focus drive, using a Synchroscope Auto-Montage® Pro System and software version 5.01.0005, with the resulting image stacks processed using CombineZP®. All images were captured as TIFF files during the imaging process. Each image was modified through a paint program and Photoshop® Elements 10® software on a Toshiba Satellite® C55 series laptop computer and all were collated into plates. The size of each plate was modified to 300 dpi. Label data are presented verbatim with some information not included. Line breaks on labels are denoted by a single slash (/); breaks between two different labels are denoted by double slash (//); metadata and notes (not written on the labels themselves) are presented in brackets ([]). Scientific names are uniformly presented in *italics*. Specimens are deposited in the following collections:

- CMNH** Carnegie Museum of Natural History, Pittsburgh PA, USA
- DAVC** Doug A. Veal Collection, Cedar Rapids IA, USA
- FSCA** Florida State Collection of Arthropods, Gainesville FL, USA
- GERP** Global Eucnemid Research Project, Dept. of Entomology, Madison WI, USA
- NHM** Natural History Museum, London England, UK
- RMC** Roy Morris Collection, Griffin GA, USA

TAMUIC Texas A&M University Insect Collection, College Station TX, USA

WIRC Wisconsin Insect Research Collection, Dept. of Entomology, Madison WI, USA

Results

Subfamily Schizophiliinae Muona, 1993

Schizophilus subrufus (Randall, 1838)

This widespread, rarely encountered eucnemid was previously reported from Alabama, Connecticut, Florida, Georgia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Vermont, Virginia, and Wisconsin (Otto 2022b, 2024b). **New state records** are confirmed for Kentucky, based on four collected specimens in Lindgren funnel traps while comparing the biodiversity composition of Coleoptera between a prescribed burn in a forested area and an unburned forest. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.56647N, 84.26164W/ 20-Jul-21; unburned forest/ Trap: Lindgren Funnel #U02 // *Schizophilus subrufus*/ Det. Kane Lawhorn/ Eucnemidae (1, WIRC); USA: Berea, KY/ 37.55903N, 84.23819W/ 20-Jul-21; burned forest/ Trap: Lindgren Funnel #B10 // *Schizophilus subrufus*/ Det. Kane Lawhorn/ Eucnemidae (1, WIRC); USA: Berea, KY/ 37.56647N, 84.26164W/ 10-Aug-21; unburned forest/ Trap: Lindgren Funnel #U02 // *Schizophilus subrufus*/ Det. Kane Lawhorn/ Eucnemidae (1, WIRC); USA: Berea, KY/ 37.56647N, 84.26164W/ 31-Aug-21; unburned forest/ Trap: Lindgren Funnel #U02 // *Schizophilus subrufus*/ Det. Kane Lawhorn/ Eucnemidae (1, WIRC).

Subfamily Melasinae Fleming, 1821

Tribe Xylobiini Reitter, 1911

Xylophilus crassicornis Muona, 2000

Another widespread but rarely seen eucnemid species, *X. crassicornis* was previously recorded from Arkansas, Connecticut, Delaware, Kentucky, Maine, Maryland, Massachusetts, New Jersey, North Carolina, Ohio, Vermont, Virginia, West Virginia, and Wisconsin (Evans 2011; Lawhorn *et al.* 2023; Muona 2000; Otto 2010, 2012, 2022b; Otto and Karns 2017). It is reported here for the first time from Georgia and Iowa. **GEORGIA: Lamar County:** GA: Lamar Co./ Barnesville, 1225/ Crawford Rd./ V/10–31/2021/ R. Morris // mixed woods/ 33.082, –84.088/ Malaise Trap // *Xylophilus/ crassicornis*/ Muona/ Det. R.L. Otto/ 2024 (1, RMC); GA: Lamar Co./ 376 Lamar Co. Line Rd./ 33.177415, –84.202726/ V/1–15/2023, R. Morris // Mixed hardwood forest/ Malaise Trap // *Xylophilus/ crassicornis*/ Muona/ Det. R.L. Otto/ 2024 (1, NHM); **IOWA: Allamakee County:** IA: Allamakee Co./ Yellow River Forest/ June 11–18, 2023/ Pan. Tr. Melange C./ Doug Veal // *Xylophilus/ crassicornis*/ Muona/ Det. R.L. Otto/ 2024 (1, DAVC); IA: Allamakee Co./ Yellow River Forest/ July 2–9, 2023/ Pan. Tr. Melange C./ Doug Veal // *Xylophilus/ crassicornis*/ Muona/ Det. R.L. Otto/ 2024 (1, DAVC).

Tribe Dirrhagini Reitter, 1911

Dirrhagofarsus brevis Otto, 2022

This apparently widespread, very rare and recently described eucnemid species was previously known from Alabama, Florida, Georgia, Louisiana, South Carolina and Wisconsin (Otto 2022a, 2024b). Maine, New Jersey and Virginia are now confirmed **new state records**. **MAINE: Washington County:** MAINE: Washington Co./ 1.5 km NW of Baileyville/ 45.16390, –67.42167/ 69m, 15–30 June 2023 // Cross-vane panel/ trap + *Megaplatypus*/ lure, Anthony Slowik // *Dirrhagofarsus/ brevis*/ Otto/ Det. R.L. Otto/ 2024 (1, CMNH); **NEW JERSEY: Gloucester County:** NEW JERSEY: Gloucester/ Co., 4.5 km NE of Sewell/ 39.785171, –75.09624, 42m/ 25 May–6 Jun 2022, LFT/ M. Parkinson // *Dirrhagofarsus/ brevis*/ Otto/ Det. R.L. Otto/ 2024 (1, CMNH); **NEW JERSEY: Gloucester County:** NEW JERSEY: Gloucester/ Co., 4.6 km NE of Sewell/ 39.78517, –75.09620/ 11–30 May 2023 // Lindgren FT/ M. Parkinson

// *Dirrhagofarsus/ brevis/* Otto/ Det. R.L. Otto/ 2024 (1, CMNH); **VIRGINIA: Roanoke County:** VIRGINIA: Roanoke Co./ 2.7 km SE of Roanoke/ 37.25587, -79.91689, 27m/ 29 Mar-18 May 2022, LFT/ D. Heltzel // *Dirrhagofarsus/ brevis/* Otto/ Det. R.L. Otto/ 2024 (1, CMNH).

***Dirrhagofarsus modestus* (Fleutiaux, 1923)**

This widespread, commonly encountered eucnemid species was reported from Japan, South Korea, and Russia. In the United States, *D. modestus* has been taken from Connecticut, Florida, Georgia, Indiana, Iowa, Maine Massachusetts, Missouri, New Jersey, New York, Ohio, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin (Otto 2022a, 2024b). A **new state record** is confirmed for Kentucky. One specimen was taken from a Lindgren funnel trap placed in a burned forested area after a prescribed burn took place. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.55903N, 84.23819W/ 08-Jun-21; Burned forest/ Trap: Lindgren Funnel #B01 // *Hylis terminalis/* Det. Kane Lawhorn/ Eucnemidae // *Dirrhagofarsus/ modestus/* (Fleutiaux)/ Det. R.L. Otto/ 2024 (1, WIRC).

***Dirrhagofarsus unicolor* (Hisamatsu, 1960)**

This apparently rare eucnemid species was reported from Japan, Russia and South Korea. In the United States, *D. unicolor* has been recorded from Connecticut, Delaware, Florida, Massachusetts, New Jersey, Ohio, Rhode Island and West Virginia (Otto 2022a). Georgia is confirmed as **new state records**. **GEORGIA: Cook County:** GEORGIA: Cook County/ 4.8 km E of Ellenton/ 31.17274, -83.53742, 76m/ 2-16 May 2019, LFT/ N. Skaggs (1, CMNH); **Lamar County:** GA: Lamar Co./ Barnesville, 1225/ Crawford Rd/ V/1-24/2022/ R. Morris // mixed woods/ 33.082, -84.088/ V-FIT // *Dirrhagofarsus/ unicolor/* (Hisamatsu)/ Det. R.L. Otto/ 2024 (1, RMC).

Genus *Protofarsus* Muona, 2000

Diversity and distribution. *Protofarsus* is a New World genus consisting of two species. *Protofarsus caribicus* Muona (Fig. 1) occurs in the Nearctic region and the Antilles (Puerto Rico and U.S. Virgin Islands). *Protofarsus convexus* (Fisher) is present in the Nearctic region and Mesoamerica, distributed from southern Texas in the United States south through Panama.

Diagnosis. Apical margin of frontoclypeal region evenly rounded and more than twice as wide as the distance between antennal sockets; notosternal antennal grooves poorly developed; male prothoracic tarsomere I simple, without sex combs; metathoracic coxal plates medially 1.2–2.5 times wider than laterally; last visible ventrite rounded; lateral elytral ridge complete and well-developed along lateral sides of elytra; prothoracic pretarsal claws simple; lateral surfaces of mesothoracic and metathoracic tibiae with setae only; male aedeagus dorsoventrally compressed, with enlarged, setose secondary lateral lobes; median lobe with rounded apex; primary lateral lobes bilobed and apically setose; flagellum tubular (Muona 2000).

Key to the species of *Protofarsus*

1. Anterolateral pronotal ridge concave, directed posteriorly (Fig. 2) ***Protofarsus caribicus* Muona**
- Anterolateral pronotal ridge sinuous, directed posteroventrally (Fig. 3) . . ***Protofarsus convexus* (Fisher)**

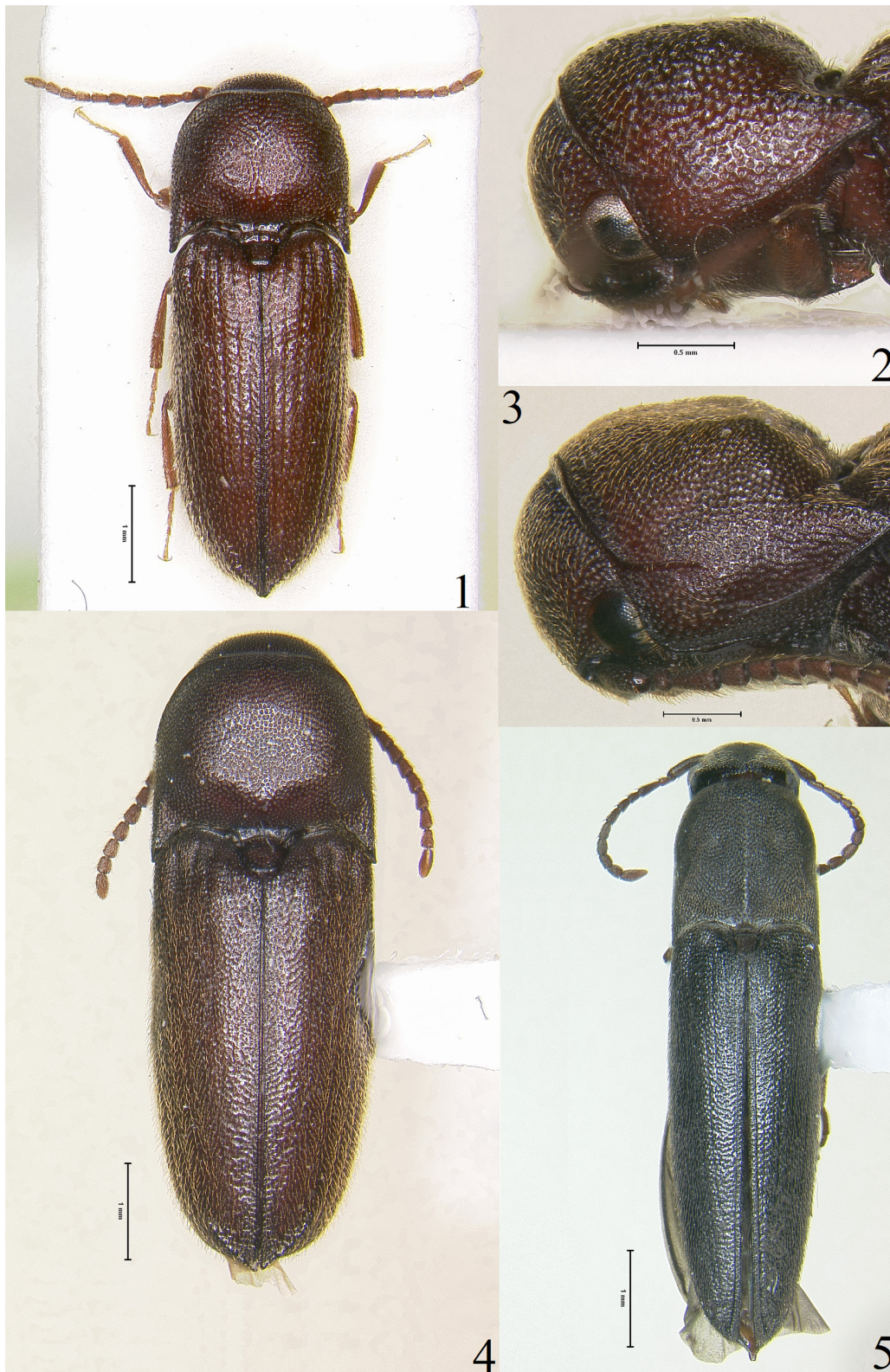
***Protofarsus convexus* (Fisher, 1945)**

Figure 4

Farsus convexus Fisher 1945: 87–88.

Differential diagnosis. The presence of a complete lateral elytral ridge will readily distinguish *P. convexus* from species of the related *Nematodinus* Lea. The sinuous, posteroventrally directed anterolateral pronotal ridges will further separate the species from *P. caribicus* Muona.

Material examined. Five specimens from Texas (**new USA records**) were included in this study: **UNITED STATES of AMERICA: TEXAS: Cameron County:** USA: TEXAS: Cameron Co./ Sabal Palm Grove Ref. (site 2)/ 25.84851[°]N, 97.41794°W/ IV-24-VI-5-2009, FIT-ground/ E.G. Riley-1041, palm forest // *Protofarsus/ caribicus/*



Figures 1–5. Nearctic Eucnemidae. 1) *Protofarsus caribicus*, dorsal habitus. 2) *Protofarsus caribicus*, lateral view of pronotum. 3) *Protofarsus convexus*, lateral view of pronotum. 4) *Protofarsus convexus*, dorsal habitus. 5) *Trigonopleurus cordobaalfaroi*, dorsal habitus. (Scale: 2–3 = 0.5 mm; 1, 4–5 = 1.0 mm.)

Muona/ Det. R.L. Otto/ 2010 [folded] // *Protofarsus/ convexus/* (Fisher)/ Det. R.L. Otto/ 2024 (1, GERP); USA, TX: Cameron Co./ Sabal Palm Grove/ IV-25-V-29-2009/ UV lite trap // 25.849°N, 97.417°W/ in dense palm/ and ebony forest/ Heffern & Raber // *Protofarsus/ convexus/* (Fisher)/ Det. R.L. Otto/ 2024 (3, TAMUIC); USA: TEXAS: Cameron Co./ Sabal Palm Grove Ref. (site 1)/ 25.84799°N, 97.41881°W/ V-21-VI-5-2009, UV light/ palm forest, E.G. Riley-1037 // *Protofarsus/ caribicus/* Muona/ Det. R.L. Otto/ 2010 [folded] // *Protofarsus/ convexus/* (Fisher)/ Det. R.L. Otto/ 2024 (1, GERP).

Redescription. Length 4.0–5.5 mm. Width 1.2–1.7 mm. Body oblong, elongate; uniformly reddish brown; antennae and legs reddish brown; head, pronotum and elytra clothed with short, recumbent yellowish setae (Fig. 4). **Head:** Subspherical, without median carina or groove; surfaces shiny, punctures deep and closely spaced; apical margin of frontoclypeal region evenly rounded, more than 2 times wider than base; mandibles stout, bidentate, densely punctate. **Antennae:** Antennal flagellomeres I–VIII weakly serrate, about ½ of the length of the body; flagellomere I longer than wide, longer than II; flagellomere II longer than wide, slightly longer than III; flagellomeres III–VIII slightly longer than wide, subequal; flagellomere IX longer than wide, longer than VIII. **Pronotum:** Surface somewhat shiny, densely and closely punctate; quadrate, with moderate, sharp hind angles; lateral sides parallel-sided at basal ⅓, arcuate at apical ⅓; disc convex, without fovea; anterolateral ridge short and directed posteroventrally; posterolateral ridge elongate, extending ¾ the length of the pronotum; base sinuous, with short, median groove above scutellar shield. **Scutellar shield:** Quadrate, subtriangular, punctate and distally rounded. **Elytra:** Striae vaguely indicated throughout, moreso basally near humeri; interstices flattened; surfaces somewhat shiny, transversely rugose at basal ½, shallowly punctate at apical ½. **Legs:** First tarsomere shorter than the combined length of remaining four on mesothoracic and metathoracic tarsi; tibiae rounded in cross section; metathoracic tarsomeres I–IV simple; metathoracic tarsomere IV as wide as III; metathoracic tarsomere V elongate; pretarsal claws simple. **Venter:** Closely and shallowly punctate, with short, recumbent yellowish setae; hypomeron with poorly indicated notosternal antennal grooves; metathoracic episterna parallel-sided; metathoracic coxal plates medially 1.2–2.5 times wider than laterally.

Geographical distribution. Outside the United States, this rarely encountered New World species of eucnemid has been recorded from Nicaragua and Panama. In the United States, *P. convexus* has been recorded from a single county in southern Texas.

Biology. Four specimens were taken from a UV light trap placed in a mixed palm forest at a nature reserve in southern Texas. One specimen was taken from a ground flight intercept trap in a palm forest. Larvae and pupae are unknown.

Rhagomicrus humeralis (Say, 1836)

This widespread, uncommonly encountered eucnemid species was previously recorded from Alabama, Arkansas, Florida, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Missouri, New Hampshire, New York, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Vermont, and Wisconsin (Muona 2000; Otto 2012, 2022b; Otto and Karns 2017). A single **new state record** is reported here: **IOWA: Allamakee County:** IA: Allamakee Co./ Yellow River Forest/ July 16–23, 2023/ Pan. Tr. Melange C./ Doug Veal // *Rhagomicrus/ humeralis/* (Say)/ Det. R.L. Otto/ 2024 (1, DAVC).

Sarpedon scabrosus Bonvouloir, 1875

This rarely seen eucnemid species was previously recorded from British Columbia and Ontario in Canada. In the United States, *S. scabrosus* has been collected from Alabama, California, Colorado, Illinois, Indiana, Iowa, Kansas, Maine, Maryland, Michigan, Minnesota, Missouri, Nebraska, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Oregon, Tennessee, Texas, Utah, Washington, and Wisconsin (Muona 2000; Otto 2022b; Otto and Karns 2017). It is reported here as a **new state record** for Kentucky. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.56647N, 84.26164W/ 21-Jun-23; Burned forest/ Trap: Lindgren Funnel #B03 // *Sarpedon scabrosus/* Det. Kane Lawhorn/ Eucnemidae (1, WIRC).

Subfamily Dromaeolinae Beaufeu, 1920
Tribe Euryptychini Mamaev, 1976

***Euryptychus ulkei* (Horn, 1886)**

This rarely encountered eucnemid species has been previously confirmed in Connecticut, Florida, Georgia, Mississippi, New Jersey, Ohio, Pennsylvania, Rhode Island, Texas, Virginia and Wisconsin (Otto 2024b; Otto & Karns 2017; Otto & Young 2017). **New state records** are confirmed for Illinois. **ILLINOIS: Cook County:** ILLINOIS: Cook/ County, 3.9 km NW/ of Elk Grove Village/ 42.03273, -87.98780/ 20 July-3 August 2022 // Lindgren FT/ E. McMahan // *Euryptychus/ ulkei*/ (Horn)/ Det. R.L. Otto/ 2024 (1, CMNH); **ILLINOIS: Cook Co./ 1.6 km SW of Willow/ Springs, 217m/ 41.7292, -87.87183 // 26 Jul-9 Aug 2022/ E. McMahan/ LFT (1, CMNH); ILLINOIS: Cook Co./ 1.4 km SW of Dyer/ 41.48476, -87.53356/ 2-16 August 2022 // Lindgren FT/ E. McMahan // *Euryptychus/ ulkei*/ (Horn)/ Det. R.L. Otto/ 2024 (1, CMNH); **Lake County :** ILLINOIS: Lake Co./ 1.3 km W Third Lake/ 42.37561, -88.02701/ 18 Jul-1 Aug 2022 // Lindgren FT/ E. McMahan // *Euryptychus/ ulkei*/ (Horn)/ Det. R.L. Otto/ 2024 (1, CMNH).**

Tribe Dromaeolini Beaufeu, 1920

***Deltometopus ereptus* Bonvouloir, 1871**

This uncommonly encountered, yet apparently widespread eucnemid species has been recorded from Florida, Georgia, Oklahoma, Texas and Virginia (Otto 2024c). **New records** have been confirmed for a number of states: Iowa, Michigan, Minnesota, New York, Ohio and Wisconsin. One specimen was taken from a Malaise trap placed in a backyard on a private property in Ohio. Numerous specimens have been taken from various flight intercept trapping techniques deployed throughout much of southern Wisconsin from 1975 through 2017. A small number of specimens have been taken by sweeping vegetation in southern Wisconsin. Two specimens were taken from beneath a piece of driftwood embedded in wet sand on the beach. **IOWA: Dickinson County:** Spirit Lake/ Iowa/ June 1896 // collection of/ Wm S. Marshall // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); MICHIGAN: Clinton County: Mich.: Rose Lake/ Wldf. Expt. Sta./ Clinton Co./ 4-VII-1978/ Daniel K. Young [‘4-VII’ and ‘78’ handwritten on label] // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); MINNESOTA: Stearns County: MINNESOTA: Stearns Co./ 2 miles E. of Rockville/ 29 July 1986/ Dan Peck [‘29 and ‘6’ handwritten on label] // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); NEW YORK: Essex County: New York, Essex Co./ Whiteface Mt., 4867’/ July 7-9 1988/ E. Giesbert, Coll. [handwritten, letters capitalized] // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, FSCA); OHIO: Hamilton County: OHIO: Hamilton Co./ Anderson Twp./ suburban backyard/ N39° 4.909 W84° 24.366/ VII.6.2008 Malaise trap/ Coll. G.A. Dahlem // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, FSCA); WISCONSIN: Adams County: USA: WI: Adams Co./ 43.86966°N/-89.87946°W/ [WGS84] Quincy Bluff TNC/ 21-28 June 2010/ Daniel K. Young, ex: Malaise/ trap in old *Populus* deadfall // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); USA: WI: Adams Co./ Quincy Bluff Preserve TNC/ 43.86627°N, 89.88363°W/ Geodetic datum: WGS84/ 26 July-01 August 2011/ collector: Daniel K. Young // ex: Malaise in *Populus/ grandifolia* blow // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); Crawford County: USA: WI: Crawford Co./ Oak Coulee Woods/ 43.160652°N/-91.08889°W/ 8-22 July 2017/ Robert L. Otto // V-FIT in oak savanna // *Deltometopus/ amoenicornis/ (Say)/ Det. R.L. Otto/ 2017 [folded] // Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Crawford Co./ Oak Coulee Woods/ 43.16052°N/-91.08889°W/ 22 July-5 August 2017/ Robert L. Otto // V-FIT in oak savanna // *Deltometopus/ amoenicornis/ (Say)/ Det. R.L. Otto/ 2017 [folded] // Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Crawford Co./ Oak Coulee Woods/ 43.162117°N/-91.088272°W/ 22 July-5 August 2017/ Robert L. Otto // V-FIT in S. mesic forest // *Deltometopus/ amoenicornis/ (Say)/ Det. R.L. Otto/ 2017 [folded] // Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); Grant County: Grant Co. WI/ T6N R6W sec 17/ 12-20-VIII-1975/ Gypsy Moth-M.T. // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); Grant Co. WI/ T6N R6W sec 17/ 26-VII-9-VIII-1976/ Gypsy Moth-M.T. // *Deltometopus/ ereptus/ Bonvouloir/ Det. R.L. Otto/ 2024************

(3, WIRC); Grant Co. WI/ T6N R6W sec 17/ 9–16-VIII-1976/ Gypsy Moth-M.T. // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Grant Co./ O’Leary’s Lake Recreation Area/ N42.54082°/ W-90.63676°/ 3 August 2010/ Robert L. Otto // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Grant Co./ along Badger Road/ N42.52623°/ W-90.61108°/ 3 August 2010/ Robert L. Otto // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Grant Co./ along Plum Hollow Road/ N42.57083°/ W-090.63311°/ 3 August 2010/ Robert L. Otto // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Grant Co./ along Birchwood Lane/ N42.55105°/ W-90.61307°/ 3 August 2010/ Robert L. Otto // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Grant Co./ along Mississippi Drive/ N42.8654220°/ W-91.050628°/ 24 August 2011/ Andy Anderson // Taken from EAB/ prism trap baited/ with Manuka oil/ & Z3-Hexen-1-ol // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Jackson County:** Jackson Co. WI/ T21N R4W sec 33/ 27-VII–2-VIII-1976/ Gypsy Moth-M.T. // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Jackson Co./ Black River State Forest/ T20N R2W sec 5/8/ 24 June–12 July 1999/ Jeffrey P. Gruber // unbaited Lindgren/ funnel trap in oak/ pine forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); WI: Jackson Co./ Black River S.F./ T20N R2W sec 5/8/ 1 Aug 1999/ Jeffrey P. Gruber // swept from foliage/ in oak pine forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Jefferson County:** WI: Jefferson Co./ along County Road F/ N43.1119308°/ W-088.58856143°/ 22 July 2010/ Jay Watson // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Jefferson Co./ along Gopher Hill Road/ N43.17460212°/ W-088.566490079°/ 28 July 2010/ Jay Watson // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **La Crosse County:** USA: WI: La Crosse Co./ Coulee Experimental/ State Forest/ 43°31’32”N/91°01’00”W/ 24 July 2007/ Jeffrey P. Gruber // Sweeping foliage in/ hardwood dominated/ forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Lafayette County:** USA: WI: Lafayette Co./ Hardscrabble Prairie SNA/ 0.7 mi E of Hazel Green/ 42°31.694’N 90°25.241’W/ 18–27 August 2004/ coll. John J. Dorshorst // flight intercept trap/ baited with cantharidin/ in a dry prairie // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); USA: WI: Lafayette Co./ Wedel Property about 3/ miles north of Argyle/ 42°44’17”N/89°51’05”W/ 24 June–11 July 2001/ Jeffrey P. Gruber // flight-intercept/ trap in southern/ mixed hardwood/ forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); WI: Lafayette Co./ along County Road I/ N42.57221°/ W-90.34534°/ 8 July 2010/ Robert L. Otto // Taken from EAB/ prism trap baited/ with Manuka oil // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Milwaukee County:** USA: WI: Milwaukee Co./ S. Milwaukee, Grant Park/ 42.91277°N 87.83973°W/ 3 Aug. 2014/ Jeffrey P. Gruber // 1 of 2 individuals (of some/ sp?) found on moist sand/ under drift ‘log’ that was/ partially embedded in sand/ Lake Michigan beach // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); **Monroe County:** WI: Monroe Co./ Fort McCoy – 1.5 mi. W/ of Badger Drop Zone/ 8 to 12-VIII-1997/ J.A. Maxwell // collected in flight inter-/ cept trap in oak savanna // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Ozaukee County:** USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38567°N/-88.02638°W/ WGS84 6–22 July 2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38295°N/-88.02534°W/ WGS84 22–30 July 2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38295°N/-88.02534°W/ WGS84 30.VII–06.VIII.2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38567°N/-88.02638°W/ WGS84 30.VII–06.VIII.2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38295°N/-88.02534°W/ WGS84 06–13 August 2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (2, WIRC); USA: WI: Ozaukee Co./ UW-Mil. Field Station/ 43.38567°N/-88.02638°W/ WGS84 27.VIII–03.IX.2013/ Daniel K. Young, Malaise/ trap *Fagus-Acer* forest // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); **Richland County:** USA: WI: Richland Co./ LWRSGA-Lone Rock/ 43°11’44”N 090°14’31”W/ 8–15 August 2003/ collector: Daniel K. Young // flight

intercept trap // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (3, WIRC); **Trempealeau County:** USA: WI: Trempealeau County/ N. of Hwy 10, W. of Strum/ 44.55696°N/91.40357°W/ WGS84 27 July–03 Aug 2011/ Kari Gullickson, Ron Harper // Malaise trap in/ open grassy field by/ mixed hardwoods/ and farm field // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC); USA: WI: Trempealeau County/ N. of Hwy 10, W. of Strum/ 44.55696°N/91.40357°W/ WGS84 10–17 August 2011/ Kari Gullickson, Ron Harper // Malaise trap in/ open grassy field by/ mixed hardwoods/ and farm field // *Deltometopus/ ereptus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, WIRC).

***Dromaeolus badius* (Melsheimer, 1844)**

In Canada, this widespread, common eucnemid species was taken in Ontario and Québec. In the United States, *D. badius* was previously taken from Alabama, Arizona, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Maryland, Massachusetts, Missouri, Nebraska, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, and Wisconsin (Muona 2000; Otto 2022b; Otto and Karns 2017; Wickham 1911). **New state records** are confirmed for Kentucky and Oklahoma. One specimen was taken from a Lindgren funnel trap placed in a forest system following a prescribed burn in Kentucky. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.55903N, 84.23819W/ 22-Jun-21; Unburned forest/ Trap: Lindgren Funnel #B09 // *Onichodon orchesides/* Det. Kane Lawhorn/ Eucnemidae // *Dromaeolus/ badius/* (Melsheimer)/ Det. R.L. Otto/ 2024 (1, WIRC); **OKLAHOMA: Marshall County:** U.S.A., Okla./ Marshall Co./ VII-8-1969/ U.O.B.S/ R.H. Arnett, Jr. [date and 'U.O.B.S' handwritten on label] // *Dromaeolus/ badius/* (Melsheimer)/ Det. R.L. Otto/ 2024(1, FSCA).

***Dromaeolus salsus* Bonvouloir, 1875**

This rarely encountered, but apparently widespread eucnemid species has been recorded from Florida, Louisiana, Massachusetts, New York, Ohio, Rhode Island and Texas (Otto 2024b; Otto & Karns 2017). **New records** are confirmed for Georgia and Kansas. **GEORGIA: Chatham County:** GEORGIA: Chatham Co./ 3.4 km S. of Garden City/ 32.08366, -81.15464, 7 m/ 17 May–3 June 2022, LFT/ E. Kennedy // *Dromaeolus/ salsus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, CMNH); **KANSAS: Wyandotte County:** Wyandotte/ County, 3.1 km ESE/ of Victory Junction/ 39.11451, -94.87030/ 312 m, 7–29 Jul 2022 // Lindgren FT/ B. Brunkow // *Dromaeolus/ salsus/* Bonvouloir/ Det. R.L. Otto/ 2024 (1, CMNH).

***Fornax bicolor* (Melsheimer, 1844)**

In Canada, this rarely encountered eucnemid species was previously recorded from Québec. In the United States, *F. bicolor* has been taken from Alabama, Florida, Georgia, Illinois, Kentucky, Maryland, Massachusetts, Missouri, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, Virginia and Wisconsin (Otto 2020, 2024b). Delaware is confirmed as a **new state record**. **DELAWARE: New Castle County:** DELAWARE: New/ Castle Co., 2.9 km SSW/ of Blackbird, 18m/ 39.34846, -75.67619 // 30 Jun–13 Jul 2022/ J. Wheeler, LFT // *Fornax/ bicolor/* (Melsheimer)/ Det. R.L. Otto/ 2024 (1, CMNH).

***Fornax convexicollis* Otto, 2020**

This rarely encountered, southeastern eucnemid species has been recorded from Florida, Louisiana, Missouri and Tennessee (Otto 2020). **New records** have been confirmed from Georgia. **GEORGIA: Lamar County:** GA: Lamar Co./ Barnesville, 1225/ Crawford Rd./ VI/1–15/2021/ R. Morris // mixed woods/ 33.082, -84.088/ Malaise Trap // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (1, GERP); GA: Lamar Co./ Barnesville, 1225/ Crawford Rd./ VI/15–30/2021/ R. Morris // mixed woods/ 33.082, -84.088/ Malaise Trap // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (1, NHM); GA: Lamar Co/ 376 Lamar Co. Line Rd./ 33.177415, -84.202726/ VI/16–30/2023, R. Morris // Mixed hardwood forest/ Mv and Uv lights // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (1, RMC); GA: Lamar Co/ 376 Lamar Co. Line Rd./ 33.177415, -84.202726/ VII/1–15/2023, R. Morris // Mixed hardwood forest/ Malaise Trap // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (1, GERP); GA: Lamar Co./ 1225 Crawford Rd./ 33.0827899, -84.0882782/ VIII/1–15/2023, R. Morris // Mixed hardwood forest/ V Flight Intercept

Trap // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (1, RMC); **Sumter County:** GA: Sumter Co./ Americus, 3403 Lee/ St., VI/1–30/2022/ Roy Morris // 31°9362277 N/ 81°208405 W/ hardwood swamp/ V-FIT // *Fornax/ convexicollis/* Otto/ Det. R.L. Otto/ 2024 (2, RMC).

***Isarthrus calceatus* (Say, 1836)**

In Canada, this uncommonly encountered eucnemid species was taken in Ontario and Québec. In the United States, *I. calceatus* was previously recorded from Arkansas, Connecticut, District of Columbia, Georgia, Illinois, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Texas, Vermont, West Virginia and Wisconsin (Otto 2022b, 2024b; Wickham 1911). Herein, I confirm a **new state record** for this species from Kentucky. One specimen was taken from a Lindgren funnel placed in a forested area following a prescribed burn. One specimen was also taken from a Lindgren funnel trap placed in an unburned forested area in Kentucky. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.56647N, 84.26164W/ 27-Apr-21; Unburned forest/ Trap: Lindgren Funnel #U02 // *Hylis terminalis/* Det. Kane Lawhorn/ Eucnemidae // *Isarthrus/ calceatus/* (Say)/ Det. R.L. Otto/ 2024 (1, WIRC); USA: Berea, KY/ 37.55903N, 84.23819W/ 27-Apr-21; Burned forest/ Trap: Lindgren Funnel #B07 // *Hylis terminalis/* Det. Kane Lawhorn/ Eucnemidae // *Isarthrus/ calceatus/* (Say)/ Det. R.L. Otto/ 2024 (1, WIRC).

***Isarthrus rufipes* (Melsheimer, 1844)**

In Canada, this eucnemid species was previously recorded from Ontario. In the United States, *I. rufipes* have been recorded in Alabama, Connecticut, District of Columbia, Georgia, Illinois, Indiana, Iowa, Maine, Maryland, Michigan, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Vermont, Virginia, West Virginia and Wisconsin (Muona 2000; Otto 2022b; Otto and Karns 2017). Kentucky is confirmed as a **new state record**. One specimen was taken from a Lindgren funnel trap placed in an unburned forested area. **KENTUCKY: Madison County:** USA: Berea, KY/ 37.56647N, 84.26164W/ 03-Aug-21; Unburned forest/ Trap: Lindgren Funnel #U02 // *Onichodon orchesides/* Det. Kane Lawhorn/ Eucnemidae // *Isarthrus/ rufipes/* (Melsheimer)/ Det. R.L. Otto/ 2024 (1, WIRC).

***Onichodon canadensis* (Brown, 1940)**

In Canada, this apparently rare eucnemid species has been recorded from New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Québec. In the United States, *O. canadensis* was found in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Vermont and Wisconsin (Otto 2024b; Otto & Karns 2017). **New state records** are reported here for Iowa and Rhode Island. **IOWA: Allamakee County :** IA: Allamakee Co./ Yellow River Forest/ July 2–9, 2023/ Pan. Tr. Melange C./ Doug Veal // *Onichodon/ canadensis/* (Brown)/ Det. R.L. Otto/ 2024 (1, DAVC); **RHODE ISLAND: Kent County :** RHODE ISLAND: Kent Co./ 5.9 km ENE Nooseneck/ 41.64878, -71.575424/ 80m, 30 Jun–13 Jul 2022/ Chelsea Daniels // Cross-vane panel/ trap+a-pinene+EtOH+/ monochamol // *Onichodon/ canadensis/* (Brown)/ Det. R.L. Otto/ 2024 (1, CMNH).

***Onichodon downiei* Muona, 2000**

In Canada, this widespread, but rarely encountered eucnemid species has been recorded from Ontario. In the United States, *O. downiei* was previously recorded from Arkansas, Connecticut, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, Missouri, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, and Wisconsin (Otto 2022b, 2024b). Georgia and Kentucky are reported here as **new state records**. **GEORGIA: Wheeler County:** GEORGIA: Wheeler Co./ 2.6 km NNE of McRae/ 32.09004, -82.89081/ 24 May–15 June 2022 // Cross-vane panel/ trap + Megaplatypus/ lure, N. Skaggs // *Onichodon/ downiei/* Muona/ Det. R.L. Otto/ 2024 (1, CMNH); **KENTUCKY: Madison County:** USA: Berea, KY/ 37.56647N, 84.26164W/ 22-Jun-21; Unburned forest/ Trap: Lindgren Funnel #U07 // Eucnemidae sp. 2/ Det. Kane Lawhorn/ Eucnemidae // *Onichodon/ downiei/* Muona/ Det. R.L. Otto/ 2024 (1, WIRC).

***Onichodon orchesides* Newman, 1838**

In Canada, this widespread, apparently uncommon eucnemid species has been taken from New Brunswick, Ontario and Québec. In the United States, *O. orchesides* was previously recorded from Arkansas, Delaware, Illinois, Indiana, Iowa, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Vermont, West Virginia and Wisconsin (Otto 2013, 2024b). The **new state record** is confirmed for Connecticut, based on a single specimen collected in a Lindgren funnel trap. **CONNECTICUT: New Haven County:** CONNECTICUT: New/ Haven Co., 3 km ESE/ of Woodbridge, 28 m/ 41.34464, -72.97384/ 26 Jun–10 Jul 2019 // Lindgren funnel/ trap, K. DiVito // *Onichodon/ orchesides/* Newman/ Det. R.L. Otto/ 2024 (1, CMNH).

***Onichodon wappesi* Muona, 2000**

This rarely encountered, southern eucnemid species has been taken from Arkansas, Oklahoma and Texas (Otto 2022b; Otto and Karns 2017). **New state records** are confirmed for Mississippi, based on 14 specimens collected at UV light traps near Kiln, Mississippi. **MISSISSIPPI: Hancock County:** MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 10–13 Aug 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (2, CMNH); MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 14–16 Aug 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (1, GERP); MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 17–21 Aug 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (1, CMNH); MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 22–24 Aug 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (2, CMNH; 1 GERP); MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 25–27 Aug 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (5, CMNH; 1 NHM); MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 11–16 Sept 2023, UV/ light trap, R. Kergosien // *Onichodon/ wappesi/* Muona/ Det. R.L. Otto/ 2024 (1, NHM).

***Serrifornax infelix* (Horn, 1886)**

This rarely encountered, southeastern eucnemid species was known from Alabama, Florida, and Georgia (Otto 2012, 2024b). A **new state record** is confirmed for Mississippi, based on a single specimen taken at a UV light trap placed near Kiln, Mississippi. **MISSISSIPPI: Hancock County:** MISSISSIPPI: Hancock/ Co., 2.3 km SSE of Kiln/ 30.38813, -89.43032/ 22–24 Aug 2023, UV/ light trap, R. Kergosien // *Serrifornax/ infelix/* (Horn)/ Det. R.L. Otto/ 2024 (1, CMNH).

Tribe Nematodini Leiler, 1976

***Nematodes rugosipennis* Otto, 2021**

This widespread, rarely collected eucnemid was previously known from Florida, Georgia, Louisiana, Oklahoma and South Carolina (Otto 2021, 2024b). It is reported for the first time from Texas. The single specimen was taken from a Lindgren funnel trap placed in a mixed palm forest in southern Texas. **TEXAS: Cameron County:** USA: TEXAS: Cameron Co./ Sabal Palm Grove R. (site 13)/ 25.84903°N, 97.41622°W/ III-30–V-15-2010, palm forest/ Lindgren FT, E.G. Riley-1990 // *Nematodes/ rugosipennis/* Otto/ Det. R.L. Otto/ 2024 (1, TAMUIC).

***Trigonopleurus cordobaalfaroi* Otto, 2024**

Figure 5

This rarely encountered and apparently widespread eucnemid species has been recorded in Costa Rica (**New country records** (pers. obs.)), Guatemala and the United States. In the United States, *T. cordobaalfaroi* was previously recorded in Louisiana (Otto 2024a). A **new state record** is confirmed for Georgia. **GEORGIA: Sumter County:** GA: Sumter Co./ Americus, 3403 Lee/ St., VI/1–30/2022/ R. Morris // hardwood swamp/ 31.9362277°N/ -81.208405°W/ V-FIT // *Trigonopleurus/ cordobaalfaroi/* Otto/ Det. R.L. Otto/ 2024 (1, RMC).

Acknowledgments

I would like to thank Robert Androw (CMNH), Roy Morris (Griffin, GA), Doug Veal (Cedar Rapids IA), Ed Riley and Mario Cupello (both from TAMUIC) as well as Kyle Schnepf and Paul Skelley (both from FSCA) for lending specimens in their care during the course of this study; Kane Lawhorn (Louisville KY) for allowing me to identify Eucnemidae from his studies and donating them to the WIRC; Daniel Young (UW-Madison) for blocking off time to allow me to operate the Auto-Montage equipment in the laboratory, access to specimens in the WIRC as well as providing a review of the manuscript and Robert Androw (Pittsburgh, PA) for reviewing and offering input on the manuscript.

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Received November 16, 2024; accepted November 27, 2024.

Review editor Angélico Asenjo.

