

INSECTA MUNDI

A Journal of World Insect Systematics

0628

Notes on the Amydetinae (Coleoptera: Lampyridae)
in McDermott's 1966 catalogue of Lampyridae

Oliver Keller

University of Florida
Department of Entomology and Nematology
1881 Natural Area Drive
Gainesville, FL 32607

Marc A. Branham

University of Florida
Department of Entomology and Nematology
1881 Natural Area Drive
Gainesville, FL 32607

Date of issue: May 25, 2018

Oliver Keller and Marc A. Branham
Notes on the Amydetinae (Coleoptera: Lampyridae) in McDermott's 1966 catalogue
of Lampyridae
Insecta Mundi 0628: 1–6

ZooBank Registered: urn:lsid:zoobank.org:pub:12275493-DC58-429B-AE9C-E4D979337A46

Published in 2018 by

Center for Systematic Entomology, Inc.

P.O. Box 141874

Gainesville, FL 32614-1874 USA

<http://centerforsystematicentomology.org/>

Insecta Mundi is a journal primarily devoted to insect systematics, but articles can be published on any non-marine arthropod. Topics considered for publication include systematics, taxonomy, nomenclature, checklists, faunal works, and natural history. *Insecta Mundi* will not consider works in the applied sciences (i.e. medical entomology, pest control research, etc.), and no longer publishes book reviews or editorials. *Insecta Mundi* publishes original research or discoveries in an inexpensive and timely manner, distributing them free via open access on the internet on the date of publication.

Insecta Mundi is referenced or abstracted by several sources, including the Zoological Record and CAB Abstracts. *Insecta Mundi* is published irregularly throughout the year, with completed manuscripts assigned an individual number. Manuscripts must be peer reviewed prior to submission, after which they are reviewed by the editorial board to ensure quality. One author of each submitted manuscript must be a current member of the Center for Systematic Entomology.

Guidelines and requirements for the preparation of manuscripts are available on the *Insecta Mundi* website at <http://centerforsystematicentomology.org/insectamundi/>

Chief Editor: David Plotkin, insectamundi@gmail.com

Assistant Editor: Paul E. Skelley, insectamundi@gmail.com

Head Layout Editor: Robert G. Forsyth

Editorial Board: J. H. Frank, M. J. Paulsen, Michael C. Thomas

Review Editors: Listed on the *Insecta Mundi* webpage

Printed copies (ISSN 0749-6737) annually deposited in libraries

CSIRO, Canberra, ACT, Australia

Museu de Zoologia, São Paulo, Brazil

Agriculture and Agrifood Canada, Ottawa, ON, Canada

The Natural History Museum, London, UK

Muzeum i Instytut Zoologii PAN, Warsaw, Poland

National Taiwan University, Taipei, Taiwan

California Academy of Sciences, San Francisco, CA, USA

Florida Department of Agriculture and Consumer Services, Gainesville, FL, USA

Field Museum of Natural History, Chicago, IL, USA

National Museum of Natural History, Smithsonian Institution, Washington, DC, USA

Zoological Institute of Russian Academy of Sciences, Saint-Petersburg, Russia

Electronic copies (Online ISSN 1942-1354, CDROM ISSN 1942-1362) in PDF format

Printed CD or DVD mailed to all members at end of year. Archived digitally by Portico.

Florida Virtual Campus: <http://purl.fcla.edu/fcla/insectamundi>

University of Nebraska-Lincoln, Digital Commons: <http://digitalcommons.unl.edu/insectamundi/>

Goethe-Universität, Frankfurt am Main: <http://nbn-resolving.de/urn/resolver.pl?urn:nbn:de:hebis:30:3-135240>

Copyright held by the author(s). This is an open access article distributed under the terms of the Creative Commons, Attribution Non-Commercial License, which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. <http://creativecommons.org/licenses/by-nc/3.0/>

Layout Editor for this article: Robert G. Forsyth

Notes on the Amydetinae (Coleoptera: Lampyridae) in McDermott's 1966 catalogue of Lampyridae

Oliver Keller

University of Florida
Department of Entomology and Nematology
1881 Natural Area Drive
Gainesville, FL 32607
okeller1977@gmail.com

Marc A. Branham

University of Florida
Department of Entomology and Nematology
1881 Natural Area Drive
Gainesville, FL 32607
marchbran@ufl.edu

Abstract. Nomenclatural changes are proposed and herein implemented for several beetles in the family Lampyridae (Coleoptera). Corrections of authorship are proposed for *Psilocladus marginatus* (Lewis), *Psilocladus ruficollis* (Kiesenwetter), and *Dryptelytra fulvipennis* E. Olivier. Dates of publication are corrected for *Magnoculus marginatus* (Guérin-Méneville), *Psilocladus calvus* Kirsch, *Psilocladus peruvianus* Kirsch, and *Vesta vitellinothorax* (Perty) a synonym of *Vesta thoracica* (G. A. Olivier). “*Dodacles grandjeani* E. Olivier” is found to be a *nomen nudum*, which actually refers to *Dryptelytra grandjeani* (E. Olivier).

Key words. Fireflies, nomenclature, authorship, date of publication.

Introduction

Frank Alexander McDermott (1885–1966) was a biochemist by trade but studied and published on fireflies between 1910 and 1967. His most important works were his taxonomic treatment of Lampyridae (McDermott 1964) and the extended and revised version of E. Olivier's lampyrid catalogue (Olivier 1910; McDermott 1966). A recent search for the primary descriptions of fireflies in the subfamily Amydetinae led to the discovery of several problems concerning authorship and dates of publication for several species in McDermott's (1966) catalogue. These mistakes appear to be typographical errors made while writing the catalogue, as McDermott's literature notecard database contains the correct dates. Authorship corrections were based on an examination of the original literature. Difficulties in obtaining all the pertinent literature could have also led to incorrect citations. Current online databases such as the Integrated Taxonomic Information System (www.itis.gov) are based on McDermott's catalogue and therefore carry these inaccuracies forward. In this manuscript we address these issues and propose corrections for each case.

Materials and Methods

Records in McDermott's catalogue (1966) were compared with the original descriptions of the species and McDermott's handwritten notecards, which were assembled for the production of his 1966 catalogue. These notecards were subsequently given to J. B. Buck, who then passed them on to J. E. Lloyd, who passed them on to M. A. Branham (personal communication J. E. Lloyd). Most errors appear to be typographical errors made during the writing of the catalogue.

Results and Discussion

Authorship

***Psilocladus marginatus* (Lewis, 1895)**

Cyphonocerus marginatus Lewis 1895: 115

Psilocladus marginatus Nakane, 1947; McDermott 1966: 85 [incorrect authorship]

***Psilocladus ruficollis* (Kiesenwetter, 1879)**

Cyphonocerus ruficollis Kiesenwetter 1879: 312

Psilocladus ruficollis Nakane, 1947; McDermott 1966: 85 [incorrect authorship]

Note. Nakane (1947) only reviewed the Japanese *Psilocladus* and made no comments about a change in authorship for either species above. Therefore, both species are again attributed to the original authors.

***Dryptelytra fulvipennis* E. Olivier, 1912**

Dryptelytra fulvipennis E. Olivier 1912a: 25

Dryptelytra fulvipennis Pic, 1912; McDermott 1966: 84 [incorrect authorship]

Note. McDermott listed E. Olivier (1912a) as the author on his notecard (Fig. 1a) entry for this species. McDermott also noted an uncertain citation for Pic (1912) (indicated by a question mark; Fig. 1a). Olivier's (1912) description of *D. fulvipennis* was clearly intended to be for a new species (indicated by "nov. sp."), and even after a thorough search through volumes of L'Échange (as listed in the catalogue) from 1912 and surrounding years no article written by Pic includes a description of this species.

Dates of Publication

***Magnoculus marginatus* (Guérin-Méneville, 1855)**

Megalophthalmus marginatus Guérin-Méneville 1855: 579

Magnoculus marginatus (Guérin-Méneville, 1885 [sic]); McDermott 1966: 79

Note. McDermott's notecard already contained the wrong citation (Fig. 1b), but the original description was published in 1855.

***Psilocladus calvus* Kirsch, 1870**

Psilocladus calvus Kirsch 1870: 365

Psilocladus calvus Kirsch, 1871 [sic]; McDermott 1966: 85

Note. Description year of 1871 was based on a typographical error (Fig. 2a).

***Psilocladus peruvianus* Kirsch, 1873**

Psilocladus peruvianus Kirsch 1873: 387

Psilocladus peruvianus Kirsch, 1874 [sic]; McDermott 1966: 85

Note. Description year of 1874 was based on a typographical error (Fig. 2b).

***Vesta thoracica* (G. A. Olivier, 1790)**

Lampyrus thoracica G. A. Olivier 1790: 81

Lampyrus vitellinothorax Perty 1830: 27 [syn.]

Lampyrus vitellinithorax [sic] Perty 1832 [sic]: 27; McDermott 1966: 81

Vesta vitellinithorax [sic] (Perty, 1832 [sic]); McDermott 1966: 81

Note. Description of species is on page 27 of Perty (1830–1833). Pages 1–60 were published in 1830, the remaining pages in subsequent years. Also corrected is the misspelling of the species epithet by McDermott from ‘*vitellinithorax*’ to the correct ‘*vitellinothorax*’.

Miscellaneous

Dryptelytra grandjeani E. Olivier, 1899

Dryptelytra grandjeani E. Olivier 1899: 84

Dodacles grandjeani E. Olivier, 1912 [*nomen nudum*]; McDermott 1966: 83

Note. McDermott erroneously included the species name “*Dodacles grandjeani* E. Olivier 1912” in his catalogue. This was most likely based on a mistake while adding citations to different species in the genus *Dodacles*. Olivier (1912b) only included a short discussion of “*Dryptelytra grandjeani* E. Olivier 1899”, rather than a new species description of “*Dodacles grandjeani*”. We therefore propose “*Dodacles grandjeani*” is a *nomen nudum*, and is an unavailable name in *Dodacles* and to be removed from the catalogue.

Acknowledgments

We thank James Lloyd (University of Florida, Department of Entomology and Nematology) for his invaluable information about McDermott. We also thank Matthew Moore (University of Florida, Department of Entomology and Nematology), Howard Frank (University of Florida, Department of Entomology and Nematology), and Paul Skelley (FDACS-DPI, Florida State Collection of Arthropods), for comments prior to submission, and Shinichi Nakahara (FLMNH-McGuire Center for Lepidoptera and Biodiversity) for help with the translation of Nakane’s (1947) paper from Japanese.

Literature Cited

- Guérin-Méneville, F. E. 1855.** Catalogue des Insectes Coléoptères, recueillis par M. Gaetano Osculati, pendant son exploration de la region équatoriale, sur les bords du Napo et de l’Amazone. *Verhandlungen des Zoologisch-Botanischen Vereins in Wien* 5: 573–612.
- Kiesenwetter, H. von. 1879.** Coleoptera Japoniae collecta a Domino Lewis et aliis. *Deutsche Entomologische Zeitschrift* 23(2): 305–320.
- Kirsch, T. 1870.** Beiträge zur Käferfauna von Bogotà (Sechstes Stück). *Berliner Entomologische Zeitschrift* 14: 337–378.
- Kirsch, T. 1873.** Beiträge zur Kenntniss der Peruanischen Käferfauna auf Dr. Abendroth’s Sammlungen basirt (Zweites Stück). *Berliner Entomologische Zeitschrift* 17: 339–418.
- Lewis, G. 1895.** On the Dascillidae and Malacoderm Coleoptera of Japan. *The Annals and Magazine of Natural History* (6) 16: 98–122.
- McDermott, F. A. 1964.** The taxonomy of the Lampyridae (Coleoptera). *Transactions of the American Entomological Society* 90: 1–72.
- McDermott, F. A. 1966.** Lampyridae. p. 1–149. *In*: W. O. Steel (ed.). *Coleopterorum catalogus supplementa*, pars 9. Uitgeverij Dr. W. Junk; Gravenhage, Netherlands. 149 p.
- Nakane, T. 1947.** On the Japanese *Psilocladus* (Col. Lampyridae). *Transactions of the Kinki Coleopterological Society* 2: 4–7.
- Olivier, E. 1899.** Contribution à l’étude des Lampyrides (Col.) descriptions et observations. *Bulletin de la Société Entomologique de France* 1899: 86–93.
- Olivier, E. 1910.** Lampyridae. p. 1–68. *In*: S. Schenkling (ed.). *Coleopterorum catalogus*, pars 9. W. Junk; Berlin, Germany. 68 p.
- Olivier, E. 1912a.** Lampyrides faisant partie des collections du Musée de Washington. *Annales de la Société de Belgique* 56: 24–27.

- Olivier, E. 1912b.** Descriptions de quelques Lampyrides (Col.) nouveaux de ma collection. Bulletin de la Société Entomologique de France 1912: 170–172.
- Olivier, G. A. 1790.** 28. Lampyre. *Lampyris*. p. 1–28. *In*: G. A. Olivier (ed.). Entomologie, ou Histoire Naturelle des Insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Coléoptères. Tome Second. De l’Imprimerie de Baudouin; Paris, France. 500 p.
- Perty, J. A. M. 1830.** Insecta Brasiliensia. p. 1–60. *In*: J. A. M. Perty (1830–1833) (ed.). Delectus animalium articulorum, quae in itinere per Brasiliam annis MDCCCXVII–MDCCCXX jussu et auspiciis Maximiliani Josephi I. Bavariae regis augustissimi peracto collegerunt Dr. J. B. de Spix et Dr. C. F. Ph. de Martius. Impensis Editoris; Munich, Germany. 224 p.
- Pic, M. 1912.** Descriptions ou diagnoses et notes diverses. L’Échange, Revue Linnéenne 28(328): 25–26.

Received April 20, 2018; accepted April 30, 2018.

Review editor Jiri Zidek.

Dryptelytra fulvipennis Paraguay,
(Sapucay)
~~Pic~~
EQ, A 5 E B, 1912, LVI, p 25.
14 mm
Elongate, black; El. fulvous. Pm short; somewhat angulate
forward, margin coarsely punctate, disk almost smooth.
El. deliriant; rugulose costate, intus valde attenuatis;
apices acule + shorter than abd. Pyg. 5-lobed, each
with yellow spot on each side
Pic, L'Echange, 1912, XXVIII, p 25(?)
QL-461 561

1a

Megophthalmus marginatus Brazil?
Colombia
Guerin; 1886, p 579, Verh. zool-bot. Verein, Wien,

1b

Figure 1. McDermott's original handwritten literature notecards. **a)** Notecard showing the citation for the original description of *Dryptelytra fulvipennis*. **b)** Notecard showing McDermott's incorrect citation for *Magnoculus marginatus*.

Psilocladus calvus Colombia
 (Cladoceras-orig.)
 Kusch, Th. B. E. Z., 1870, p 381-2
 10 - mm -
 subnitid, subglossous, dull fuscous. Pa. poles, dark black; antennal rami beyond 3d article plumose. Pm semi-lunate, disk finely punctulate, coarsely on edges. El. densely & deeply punctate, tricostrate
 Dull grey-brown, Pm brownish yellow, dark black; last ant. articles dark. almost nude above, and only Pm dark shining, ant. arts 3-10 bisamous, rami 3x length of article, hairy. Pm semi-lunate, 2.5x as wide as long, 2 deep pits in basal edge, || El. parallel, individually rounded at apex, smoothly & deeply & very finely punctulate; edges sltly arcuate; strongly marked row of punctures - last abd. seg. lammous, & also the 2 preceding medially

2a

Psilocladus peruvianus Peru
 (Cladoceras-orig.)
 Kusch, Th. P. E. Z., 1873, p 387-8.
 6.5 x 2 mm
 oblong, pubescent, fuscous. Last ant. of ant., sides of Pm, & elts, with 2 yellow spots, one humeral & one about mid length in lat. border. Antennal rami ca. 2x as long as ant., Pm disk convex, medially sulcate; El. obsolete. Tricostrate.
 Patch brown, short thick-hairy, & the thin hairy ^{antennal} rami are 2x length of ant., the yellow 11th somewhat longer than the others, Pm semi-lunate, 1/2 wider than long, convex on both sides, median channel; angles acute, produced; basal margin arcuate; coarsely punctate, sides broadly yellow, strongly punctate. El. parallel, densely & finely punctate, tricostrate; a long streak from humerus, and a rectangular one on the lateral border, medially, sides are yellow. 5th ventral with square cum. organ, medial on post. edge.

2b

Figure 2. McDermott's original handwritten literature notecards. **a)** Notecard showing the citation for the correct year of publication for *Psilocladus calvus*. **b)** Notecard showing the citation for the correct year of publication for *Psilocladus peruvianus*.