

NEW SYNONYMY, COMBINATIONS AND COUNTRY RECORDS IN CARABIDAE LATREILLE, 1802 (COLEOPTERA)

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Anichtchenko A. 2019. New synonymy, combinations and country records in Carabidae Latreille, 1802 (Coleoptera). *Acta Biol. Univ. Daugavp.*, 19 (1): 9 – 12.

Based on newly collected material, and material stored in museum collections, new data on taxonomy and distribution of various taxa of Carabidae from different regions of the world are provided. *Carabus (Morphocarabus) odoratus batesianus* Deuve, 1995 **stat. rest.** = *C. (M.) odoratus dabanensis* Shilenkov, 1996 **syn. nov.**; *Velinda lirata* Andrewes, 1921 = *Imasakaia kidoi* Arai & Morita, 2010 **syn. nov.**; *Lebia (s.str.) balteata* Heyden, 1886 = *Lebia (Lebia) lalehzarensis* Azadbakhsh & Kirschenhofer, 2018 **syn. nov.**; *Graphipterus albolineatus* (Wallengren, 1881) = *Graphipterus albolineatus darlingi* Péringuey, 1899 **syn. nov.**; *Brachinus (s.str.) atripensis* Ballion, 1871 = *Brachinus mansorii* Azadbakhsh & Kirschenhofer, 2018 **syn. nov.**; *Chlaenius (Callistochrous) baxii* (Gory, 1833) = *Callistomimus garouaensis* Kirschenhofer, 2008 **syn. nov.**; *Chlaenius (Chlaeniostenodes) ripicola* Andrewes, 1937 **comb. nov.** = *Chlaenius (Chlaeniostenodes) prabangensis* Kirschenhofer, 2009 **syn. nov.**; *Chlaenius (Chlaeniellus) syriacus* Chaudoir, 1876 = *Chlaenius (Chlaeniellus) richardsi* Ali, 1967 **syn. nov.** The species *Chlaenius (Ocybatus) bottegoi* Alluaud, 1933 **comb. nov.** attributed to subgenus *Ocybatus*. The following taxa are recorded for the first time: *Velinda lirata* Andrewes, 1921 for Japan; *Lebia (s.str.) balteata* Heyden, 1886 and *Brachinus (s.str.) atripensis* Ballion, 1871 for Iran; *Chlaenius (Callistochrous) baxii* (Gory, 1833) for Cameroon; *Chlaenius (Chlaeniostenodes) ripicola* Andrewes, 1937 for Laos; *Serrimargo ater* (Castelnau, 1835) for Philippines; *Acinopus (Oedematicus) megacephalus* (P. Rossi, 1794) for Latvia.

Key words: synonymy, new combinations, new country records, Carabidae, Coleoptera.

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INTRODUCTION

While studying material of Carabidae from different regions of the World, I realized that there are many systematic problems, some species wrongly placed and synonymies that had not been noticed up to now. With this article I pretend to state new synonymies and define correct

subgeneric position of several taxa. In addition, new data were obtained on the distribution of some species.

MATERIAL AND METHODS

The paper is based on the examination of fresh

material and old museum collections. The material from the following collections has been examined: BMNH - The Natural History Museum (London, United Kingdom); DUBC – Daugavpils University Beetles collection (Ilgas, Latvia); MNHN - Museum National d’Histoire Naturelle (Paris, France); MRAC - Musee Royal de l’Afrique Centrale (Tervuren, Belgium); MZLU – Lund Museum of Zoology (Lund, Sweden); cAA – private collection of Alexander Anichtchenko (Madrid, Spain).

High-resolution habitus images of mentioned species, including type specimens and additional material, are available at Carabidae of the World web-project <http://carabidae.org>

RESULTS

Carabus (Morphocarabus) odoratus batesianus Deuve, 1995 **stat. rest.**

= *Carabus (Morphocarabus) odoratus dabanensis* Shilenkov, 1996 **syn. nov.**

The taxon *batesianus* was described as subspecies of *C. (M.) odoratus* Motschulsky, 1844 by old single male from “Baikal”, without precise label data, and till now (Březina B., Huber C. & Marggi W., 2017) it was considered as synonym of nominative subspecies of *C. (M.) odoratus*. Study of Holotype of *batesianus*, kindly provided to me by Dr. Thierry Deuve in MNHN, revealed that this taxon is clearly conspecific with *C. (M.) odoratus dabanensis* Shilenkov, 1996. Large series of *C. (M.) odoratus dabanensis* collected in type locality, together with one Paratype, are deposited in collection of author (cAA). New status and synonymy are proposed here.

Velinda lirata Andrewes, 1921

= *Imasakaia kidoi* Arai & Morita, 2010 **syn. nov.** *Velinda* is a rarely collected and extremely enigmatic taxon, originally described from Barkuda Island, situated on Chilika Lake in Odisha state (E India) with a very peculiar assemblage of characteristics. In 1921, Andrewes

described a new genus and species *Velinda lirata* which he hesitantly placed in Dromiini, then genus was tentatively transferred to Singilini by Jeannel (1949) and finally to Lichnasthenina (Mateu, 1963; Basilewsky, 1984). He noted the absence of the elytral plica and the expanded mesotarsi, suggesting this could place the species near some Platynini, but added that he knew of no particular genus that would be fitting. He recognized that it deviates from *Pedimorphus* species in the relative size of the head, paramedial setigerous pores of the pronotum, and in the odd-numbered elytral intervals having setae. *Imasakaia kidoi* was described by Arai & Morita (2010) from Japan, as a representative of the subtribe Dromiina. In fact, this taxon should be considered a synonym of *Velinda lirata*, a species of the subtribe Lichnasthenina. No sufficient morphological differences were observed between both species, based on detailed descriptions. Here is recorded for Japan for the first time.

Lebia (s.str.) balteata Heyden, 1886

= *Lebia (Lebia) lalehzarensis* Azadbakhsh & Kirschenhofer, 2018a: 2 **syn. nov.**

Species *L. lalehzarensis* was described by Azadbakhsh & Kirschenhofer (2018a) from Kerman (Iran). Description was published in journal *Calodema*, after been declined by reviewers from two serious Journals, there was commented to Authors about this synonymy. *L. balteata* was previously known from Kirgizstan, Tadjikistan and Uzbekistan. Here is recorded for Iran for the first time.

Graphipterus albolineatus (Wallengren, 1881)

= *Piezia albolineata* Wallengren, 1881
 = *Piezia albosignata* Péringuey, 1899
 = *Graphipterus albolineatus darlingi* Péringuey, 1899 **syn. nov.**

Study of Holotype of *G. albolineatus* deposited in MZLU, and Paratype of *Graphipterus albolineatus darlingi* Péringuey, 1899 deposited in MNHN, revealed that both taxa are clearly conspecific. New synonymy is proposed here.

***Brachinus* (s.str.) *atripensis* Ballion, 1871**

= *Brachinus klapperichi* Jedlicka, 1956

= *Brachinus adelus* Iablokoff-Khnzorian, 1973

= *Brachinus mansorii* Azadbakhsh & Kirschenhofer, 2018b: 60 **syn. nov.**

Species widely distributed in the region (Azerbaijan, Afghanistan, Armenia, Kyrgyzstan, Kazakhstan, Tadjikistan, Turkmenistan and Uzbekistan) and its discovery in Iran was predicable. Recently described from Iran (Hormozgan Province) by Azadbakhsh & Kirschenhofer (2018b) species *Brachinus mansorii* not was compared with material of *B. atripensis* (as *atripennis* in article of Azadbakhsh & Kirschenhofer, 2018b), all comparison with the mentioned species was based on vague description and bad drawing of aedeagus from Iablokoff-Khnzorian (1973). Study of material deposited in DUBC, revealed that all distinctive features indicated for separate *B. atripensis* and *B. mansorii* are within the range of variability of the species. Here is recorded for Iran for the first time.

***Chlaenius* (*Callistochrous*) *baxii* (Gory, 1833)**

= *Callistomimus garouaensis* Kirschenhofer, 2008: 90 **syn. nov.**

From the original description of *Callistomimus garouaensis*, is clearly evident that this taxon was wrongly attributed by Kirschenhofer (2008) to the genus *Callistomimus* Chaudoir, 1872, and it is conspecific with *Chlaenius* (*Callistochrous*) *baxii*, species widely distributed in West Africa (Burkina Faso, Mali, Mauritania, Senegal) and very variable in its elytral pattern. Here is recorded for Cameroon for the first time.

Chlaenius* (*ChlaeniosTENodes*) *ripicola* Andrewes, 1937 **comb. nov.*

= *Chlaenius* (*ChlaeniosTENodes*) *prabangensis* Kirschenhofer, 2009: 4 **syn. nov.**

Study of Cotype of *C.* (s.str.) *ripicola* Andrewes, 1937 described from India and deposited in BMNH, showed that this species belongs to subgenus *ChlaeniosTENodes* Basilewsky, 1953 and is identical to *C.* (*ChlaeniosTENodes*) *prabangensis*, described from Laos by

Kirschenhofer (2009). New combination is proposed here and last one should be considered as junior synonym. Here is recorded for Laos for the first time.

***Chlaenius* (*Chlaeniellus*) *syriacus* Chaudoir, 1876**

= *Chlaenius koenigi* Semenov, 1888

= *Chlaenius* (*Chlaeniellus*) *richardsi* Ali, 1967 **syn. nov.**

Study of Holotype of *C. richardsi*, described from Bagdad (Iraq), and deposited in BMNH, showed that this species is conspecific with *C. syriacus*, known from Iran and Iraq.

Chlaenius* (*Ocybatus*) *bottegoi* Alluaud, 1933 **comb. nov.*

Species described from Somalia, and till the time was considered “*incertae sedis*” (Lorenz, 2005). Study of Holotype, deposited in MRAC, showed that this species belongs to the subgenus *Ocybatus* LaFerté-Sénéctère, 1851.

***Serrimargo ater* (Castelnau, 1835)**

Material: 1 male – “Roxas, Palawan, Philippines, January 2019” (DUBC).

Here is recorded for Philippines for the first time. Species was known from Myanmar, China (Yunnan), Indonesia (Lesser Sunda Islands.; Sumatra), Malaysia, Thailand, Taiwan and Vietnam (Fedorenko, 2018).

***Acinopus* (*Oedematicus*) *megacephalus* (P. Rossi, 1794)**

Material: 1 female – “Latvia, Jelgavas nov., pie Krāču kalna ezera, sils augšnes lamatas 12-25. VII.2011, J. Prokopčika leg.” (DUBC).

Species widely distributed in South Europe and Near East: Azerbaijan, Afghanistan, Albania, Armenia, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, France, Georgia, Greece, Iran, Iraq, Israel, Italy, Macedonia, SW of Russia, Slovenia, Syria, Turkmenistan and Turkey. Here is recorded for Latvia for the first time, and probably was introduced.

ACKNOWLEDGEMENTS

I'm grateful to Dr. Thierry Deuve (MNHN, France) and Erich Kirschenhofer (Austria) for help with material and data. Special thanks to anonymous reviewers for helpful comments and suggestions. Research was supported by Internal Grant of Daugavpils University (No 14-95/18).

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Received: 15.06.2019.

Accepted: 10.08.2019.