

New synonymy, combinations and country records in Carabidae Latreille, 1802 (Coleoptera)

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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. *Calathus* (*Neocalathus*) *anitschenkoi* O. Berlov & Ippolitova, 2005 **syn. n.** = *C. (N.) melanocephalus* (Linne, 1758); *Penetretus imitator* Zamotajlov, 1990 **syn. n.** = *Penetretus andalusicus* (Reitter, 1897); *Chlaenius* (*Chlaeniellus*) *nigrosuturatus* Mandl, 1978 **syn. n.** = *Ch. (Chlaeniellus) corrosulus* Bates, 1892 **comb. n.** The following species are listed for Philippines for the first time: *Chlaenius* (*Lissauchenius*) *flaviguttatus* W.S. Macleay, 1825; *Chlaenius* (*Callistoides*) *melanopus* Andrewes, 1923 and *Oodes* (s.str.) *melanodes* Andrewes, 1938. *Chlaenius* (*Pachydinodes*) *radama* Kunckel, 1891 first time cited for Namibia, and *Tetragonoderus* (*Peronoscelis*) *pictus* (Perty, 1830) first time cited for Colombia and Panama.

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

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INTRODUCTION

While studying material of Carabidae from different regions of the World, I realized that 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 material from the following collections has been examined: DUBC – Daugavpils University Beetles collection (Ilgas, Latvia); MNHN – Museum National d’Histoire Naturelle (Paris, France); 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

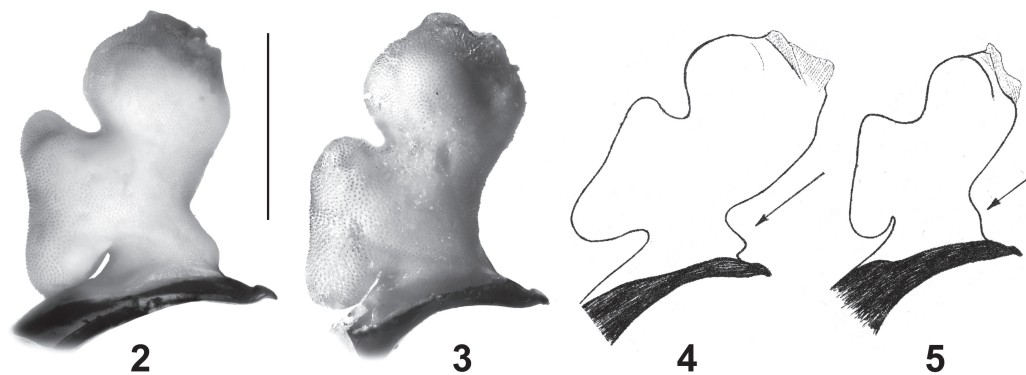
Calathus (Neocalathus) melanocephalus (Linne, 1758)

Calathus (Neocalathus) anistschenkoi O. Berlov & Ippolitova, 2005: 41 **syn. n.**

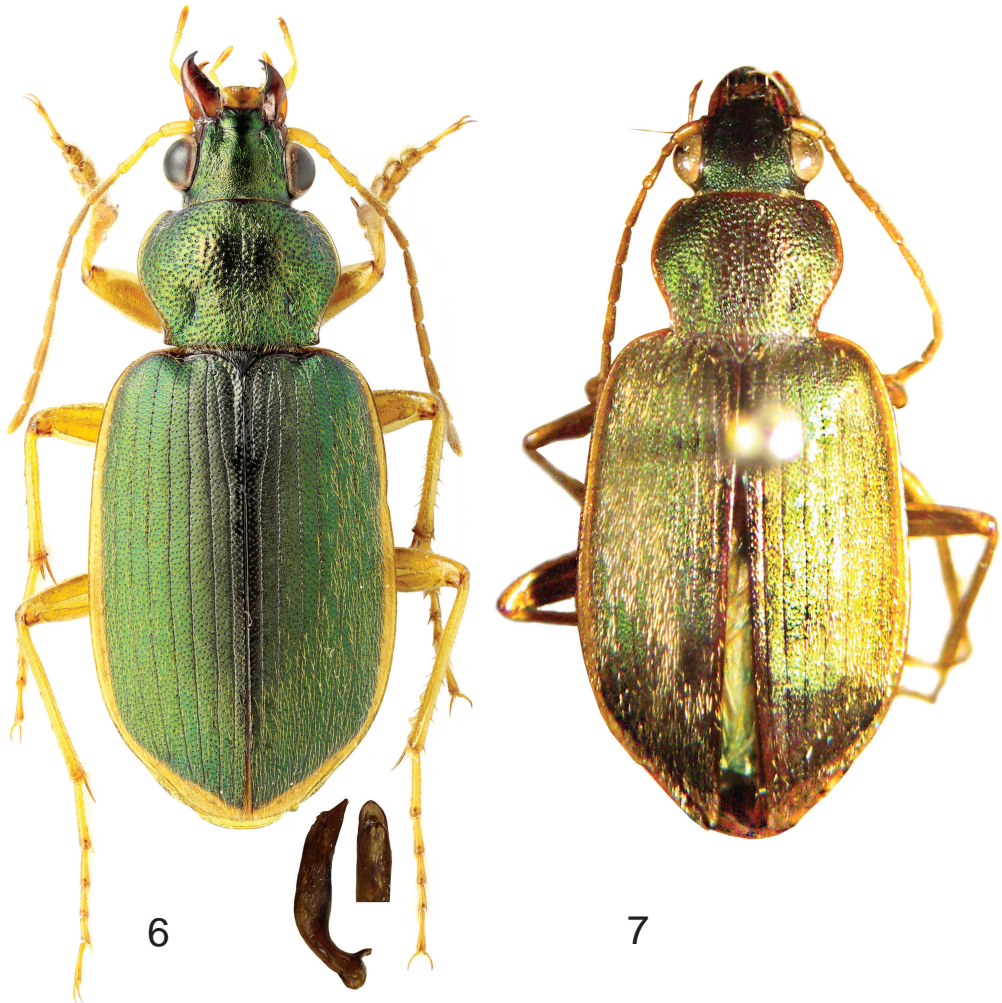
Careful study of external morphology, together with aedeagus and endophallus structure (Figs. 2–5) of type material of *C. (N.) anistschenkoi* (Paratypes: 1m, 2f – “оз. Байкал, перевал у мыса Елохин, 1250м, 4–6.VII.2004, Берлов” in russian [lake Baikal, pass near cape Elohin, 1250m, 4–6.VII.2004, Berlov] (сАА)) made it possible to establish that there are not differences with widely distributed species *C. (N.) melanocephalus*. All distinguishing features indicated in the description are either absent or found in other melanistic populations of the species (“Spain, Montes Cantabricos, Peña Ubiña, 2300m, 5–6.VII.2009, Anichtchenko A. leg.”; “Spain, Cantabria, Pico Tres Mares, 2000-2100 m, 24.VII.2019, Anichtchenko & Sciaky leg.”; “C. Altay Mts., Seminsky Mt. rmg., Sarlyk Mt., 1900 m, 19.6.2002, A. Menshikov leg.”; “E Siberia, Irkutsk province, Kuytunskiy district, 9 km W Uyan, 24.6.2009, A. Shavrin leg.”). A color photograph of the type specimen of *C. (N.) anistschenkoi* has never been available at the web address given in the article, and is first time given here (Fig. 1). New synonymy is established here.



Fig. 1. Habitus of paratype of *Calathus (Neocalathus) anistschenkoi* O. Berlov & Ippolitova, 2005, **syn. n.**, = *C. (N.) melanocephalus* (Linne, 1758)



Figs. 2–5. Endophallus structure of *C. (N.) melanocephalus* (Linne, 1758). 2 – Spain, Montes Cantabricos; 2 – paratype of *C. (N.) anistschenkoi* **syn. n.**; 3 – *C. (N.) anistschenkoi* **syn. n.**, drawing from Berlov & Ippolitova (2005); 4 – *C. (N.) melanocephalus* drawing from Berlov & Ippolitova (2005).



Figs. 6–7. Habitus of *Chlaenius* (*Chlaeniellus*) *corrosulus* Bates, 1892 **comb. n.** 6 – *Ch.* (*Ch.*) *nigrosuturatus* Mandl, 1978 **syn. n.** (compared with Type, N India, Uttarakhand); 7 – *Ch. corrosulus* Bates, 1892 (Type, MNHN).

***Penetretus andalusicus* (Reitter, 1897)**

Penetretus imitator Zamotajlov, 1990: 133 **syn. n.**

Species was described by single male from Cerro Pelado (Sierra Nevada mountains, Spain) as species closely related to *P. andalusicus* (Reitter, 1897). Study of extensive material, collected by author during 2003–2006 in type locality and other regions of Sierra Nevada, revealed that both species don't show differences in external features, aedeagus and inflated endophallus structure. All the distinguishing features indicated

in the description are within the limits of individual variability. New synonymy is proposed here.

Chlaenius* (*Chlaeniellus*) *corrosulus* Bates, 1892 **comb. n.*

C. (incertae sedis) corrosulus Bates, 1892: 319

Chlaenius (*Chlaeniellus*) *nigrosuturatus* Mandl, 1978 **syn. n.**

Since its description by Bates (1892: 319), *Chlaenius corrosulus* has remained *incertae sedis*.

Species was known by single female, from: “Teinzo / Birmania / Fea, Maggio 1886”, the Type deposited in MNHN. Examination of a database of photographs of type specimens, kindly provided by Erich Kirschenhofer, made it possible to establish an undeniable identity with another little-known species, i.e. *Chlaenius* (*Chlaeniellus*) *nigrosuturatus* Mandl, 1978 (Figs. 6–7). Additional data about species are available in Anichtchenko & Kirschenhofer (2017). New synonymy is proposed here.

Chlaenius (*Callistoides*) *melanopus* Andrewes, 1923

Material: 1m – Philippines, Subic, Zambales, W Luzon, June 2015 (DUBC); 1f – Philippines, C Luzon, Bataan, VIII.2015 (DUBC). New for Philippines. Previously known from China and Thailand (Anichtchenko et al., 2022).

Chlaenius (*Lissauchenius*) *flaviguttatus* W.S. Macleay, 1825

Material: 1f – Philippines, N Luzon, Mt. Province, Barling, XI.2015 (DUBC). New country record for Philippines. Previously known from Australia, Indonesia (Sumatra), Melanesia (New Caledonia; Papua New Guinea; Solomon Islands), Micronesia, Polynesia (Norfolk islands; Samoa; Tahiti) (Anichtchenko et al., 2022).

Chlaenius (*Pachydinodes*) *radama* Kunckel, 1891

Material: 1f – Namibia, Kavango reg., 4 km SE Divundu, Popa Falls Camp, 935 m, 18.123231S, 21.582645E, 2–3.XII.2016, Yakovlev R. leg. (DUBC). Species first time cited for Namibia. Previously known from Madagascar and Tanzania (Anichtchenko et al., 2022).

Oodes (s.str.) *melanodes* Andrewes, 1938

Material: 1f – Philippines, Mindanao, Mont Hamiguitan Range, Wildlife Sanctuary, 500 m, 6.738897, 126.145570, 30.III–2.IV.2018, Anichtchenko A. Leg. (DUBC); 1m – Philippines, Mindanao, Marilog distr., Eagle’s Ridge, 7.453556, 125.233521 Philippines country record. Previously known from Java (Indonesia) (Anichtchenko et al., 2022).

Tetragonoderus (*Peronoscelis*) *pictus* (Perty, 1830)

Material: 1m – N Colombia, San Marta env., 10–50 m, Tayrona N.P. 27.II.2010, Rudolf Kmeco leg. (cAA). 1m – Panama, rio Ipeti, 8.982294, -78.504067, 17.1.2017, Anichtchenko A. leg (cAA). Colombia and Panama country records. Species previously known from Argentina, Brazil and Uruguay (Anichtchenko et al., 2022).

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