

**Carabus (Morphocarabus) incompsus pseudoseriatissimus ssp. n.
from Maramureş, North Romania (Coleoptera: Carabidae)**

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Abstract – The taxonomic status of the *Morphocarabus* population in the Maramureş Mountains (Romania) has been clarified and a new taxon was described: *Carabus (Morphocarabus) incompsus pseudoseriatissimus* ssp. n. A comparison with *Carabus (Morphocarabus) zawadzki seriatissimus* Reitter, 1896 is given. With 19 figures.

Key words – Eastern Carpathians, new species, Ukraine, Zakarpattia

INTRODUCTION

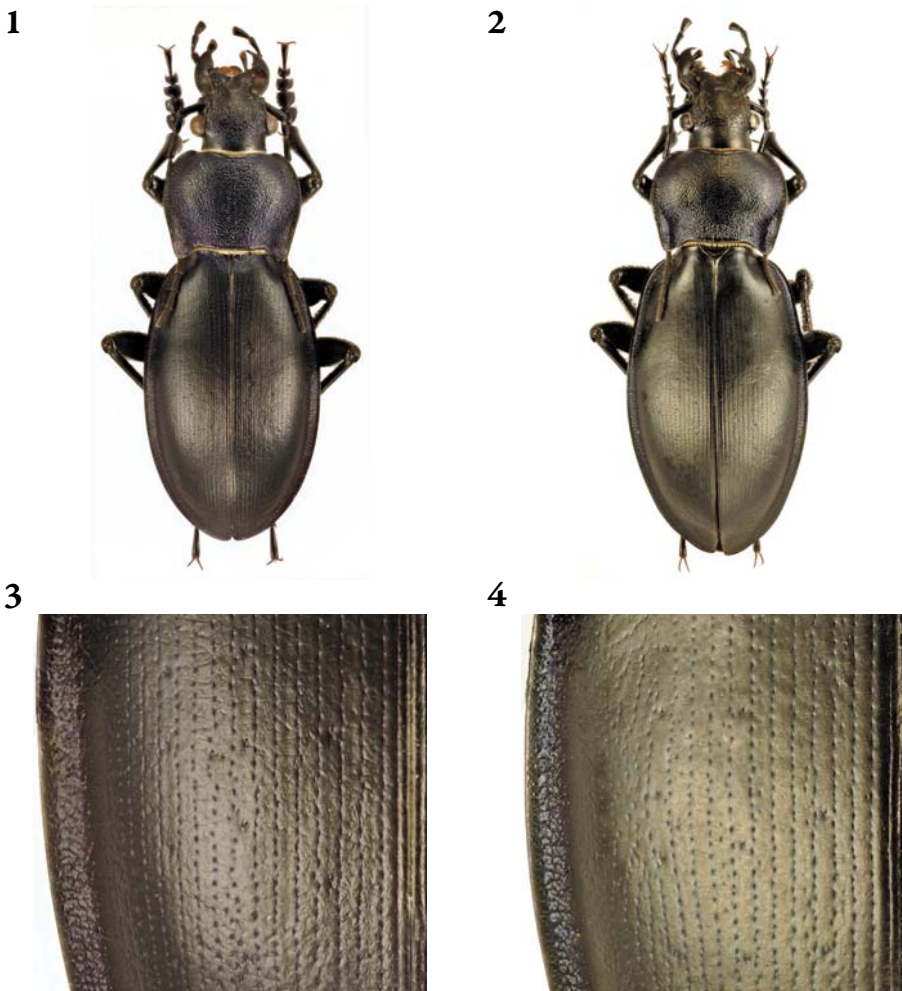
The late Albert Takács, a Romanian amateur coleopterist (lived in Zalău, Sălaj county) collected a series of large-sized *Morphocarabus* specimens near the village Vişeu de Sus (Felsővisó) in the Munţii Maramureşului (Maramureş Mountains, Romania), which he identified as *Carabus (Morphocarabus) zawadzki seriatissimus* Reitter, 1896 (Figs 1–2) (TAKÁCS 2002). More specimens were collected from different localities of the region (MERKL 2008, BARLOY & PRUNAR 2008, 2012, BARLOY *et al.* 2014), which were also published under the name *C. zawadzki seriatissimus*. *C. zawadzki seriatissimus* is distributed in the Maramaroshskiy masiv (Máramarosi-havasok) in Ukraine, Zakarpattia (Kárpátalja), its best known locality is Yasinya (Körösmező) (CSIKI 1906, 1946). The specimens from the southern (Romanian) part of the same range, i.e. from Munţii Maramureşului, are substantially different from *C. zawadzki seriatissimus*, they belong to *C. (Morphocarabus) incompsus* Kraatz, 1880, and are described hereunder as a new subspecies.

Abbreviations – CR = collection of Imre Retezár (Budapest, Hungary); HNHM = Hungarian Natural History Museum (Budapest, Hungary); CB = collection of Slavoj Budka (Písek, Czechia); CK = collection of Jiří Kynkor (Písek, Czechia); CM = collection of Oldřich Martínek (Plzeň, Czechia).

TAXONOMY

***Carabus (Morphocarabus) incompus pseudoseriatissimus* ssp. n.**
(Figs 5–8, 14–18)

Type material – (The text labels of the type specimens are cited verbatim.) Holotype, male (HNHM): Romania, jud. Maramureş, Sighetu Marmaţiei, Dobănieş [correctly Dobăieş], 400 m, oak forest, pitfall trap baited with vinegar, 3–7.VI.2008, leg. A. Grabant, O. Merkl, T. Németh & A. Podlussány. Paratypes:



Figs 1–4. *Carabus (Morphocarabus) zawadzki seriatissimus* Reitter, 1896 (Yasinya): 1 = male habitus, 2 = female habitus, 3 = median part of male left elytron, 4 = median part of female left elytron

same data as holotype (2 males, 8 females, HNHM); Romania, jud. Maramureş, Sighetu Marmătiei, Dobănieş [correctly Dobăieş], 400 m, oak forest, pitfall trap baited with vinegar, 17.VI.2006, leg. A. Grabant, Z. György, O. Merkl & A. Podlussány (1 males, 3 females, HNHM); “Máramaros, 1857, J Frivaldszky” (1 female, HNHM); “Máramaros, Coll. Em. Friv.” (1 female, HNHM); Transsylvania, Máramarosi-havasok, Felsővisó, 1981.VII., leg. A. Takács (2 males, CR); Romania, Mt. Maramureş, Vişeu de Sus, 1999.VI., leg. Takács Albert (1 male, CR); Romania, Mt. Maramureş, Vişeu de Sus (Felsővisó), 2000.V., leg. A. Takács (1 female, CR); Transsylvania, Máramarosi-havasok, Felsővisó, 2001.VII., leg. A. Takács (1 male,

5



6



7



8



Figs 5–8. *Carabus (Morphocarabus) incompsus pseudoseriatissimus* ssp. n. (Vişeu de Sus): 5 = male habitus, 6 = female habitus, 7 = median part of male left elytron, 8 = median part of female left elytron

4 females, CR); Romania, M-ții Maramureșului, Vișeu de Sus, 17–19.VI.2004, leg. S. Budka (2 males, CB); Romania, M-ții Maramureșului, Bogdan Voda, 17.VI.2009, leg. S. Budka (1 female, CB); “Rodnaer Geb., 1903, Diener” (1 male, HNHM); Romania bor., Maramureș, Moisei, 16.6.1998, V. Hanzlík lgt. (1 male,



Figs 9–13. *Carabus (Morphocarabus) zawadzki seriatissimus* Reitter, 1896: 9 = aedeagus, right lateral view, 10 = apical part of aedeagus, right lateral view, 11 = aedeagus, dorsal view, 12 = fully everted internal sac, frontal view, 13 = lacinia

CR); Romania N., VI.2014, Mti Rodnei, pasul Stref, cca 27 km SW of Borșa, leg. S. Budka (1 male, 2 females, CR); Romania, M-ții Rodnei, Pasul Setref, 17.VI.2009, leg. S. Budka (4 males, 6 females, CB); Romania N, 16.5–11.6.2012, M-ții Maramureșului, Vișeu de Jos, lgt. Kynkor J. (2 females, CR); Romania, VI.2014,



Figs 14–18. *Carabus (Morphocarabus) incompsus pseudoseriatissimus* ssp. n.: 14 = aedeagus, right lateral view, 15 = apical part of aedeagus, right lateral view, 16 = aedeagus, dorsal view, 17 = fully everted internal sac, frontal view, 18 = lacinia

M-ții Maramureșului, Vișeu de Jos env., lgt. Kynkor J. (2 females, CR); Romania N, 11.6.2012, M-ții Maramureșului, Vișeu de Jos env., cca 750 m, lgt. S. Budka (2 females, CR); Romania N, VI.2014, M-ții Maramureșului, Vișeu de Jos, 470 m, lgt. S. Budka, J. Kynkor et O. Martínek (21 males, 64 females, CB, CK, CM).

Diagnosis – The new subspecies differs from the other *incompsus* subspecies by its large size, smaller pronotum, more elongate oval elytra, black, matt colour, flat, wrinkled interspaces and indistinct, irregular rows of dots of elytra. Differences between *C. incompsus pseudoseriatissimus* and *C. zawadzkii seriatissimus* are summarised in the Table 1.

Description – *Habitus*: Figs 5–6. Body length 30–38 mm (including mandibles). Colour black, margins rarely with weak blue lustre. Head normal, frons coarsely, neck moderately wrinkled. Pronotum quadrate, broadest in the middle, 1.25–1.3 times as wide as long. Lobes of hind angles short, rounded. Disc of pronotum moderately wrinkled. Elytra elongate oval, 1.8–1.85 times as long as wide, broadest behind middle. Number of primary interspaces 5, all interspaces 21. (Interspaces at lateral edge of elytra mostly difficult to distinguish.) Interspaces narrow, finely wrinkled, surface mat. Rows of dots between interspaces indistinct, mostly irregular (Figs 7–8). Aedeagus (Figs 14–16) large, apex rather narrow and straight in lateral view, broadened in dorsal view. Internal sac (Fig. 17) wide in frontal view, with narrow pigmented spot and large semioval lacinia (Fig. 18).

Table 1. Comparison of *C. (Morphocarabus) zawadzkii seriatissimus* Reitter, 1896 and *C. (Morphocarabus) incompsus pseudoseriatissimus* ssp. n. Note that the interspaces at the lateral edge of the elytra are mostly difficult to distinguish

Character	<i>C. zawadzkii seriatissimus</i> Reitter, 1896	<i>C. incompsus pseudoseriatissimus</i> ssp. n.
Body length	28–36 mm	30–38 mm
Body colour	dark blue, margins with violet lustre	black, margins rarely with a weak blue lustre
Pronotum, form	in average 1.25 times as wide as long	in average 1.25–1.3 times as wide as long
Elytra, form	in average 1.75–1.8 times as long as wide	in average 1.8–1.85 times as long as wide
Elytra, number of primary interspaces	4	5
Elytra, all number of interspaces	17	21
Elytra, interspaces	wide, smooth, bright (Figs 3–4)	narrow, coarse, mat (Figs 7–8)
Elytra, rows of dots	distinct, regular	indistinct, mostly irregular
Aedeagus, apical part in lateral view	curved, widely rounded (Fig. 10)	straight, less rounded (Fig. 15)
Internal sac, lacinia	as in Figs 12–13	as in Figs 17–18

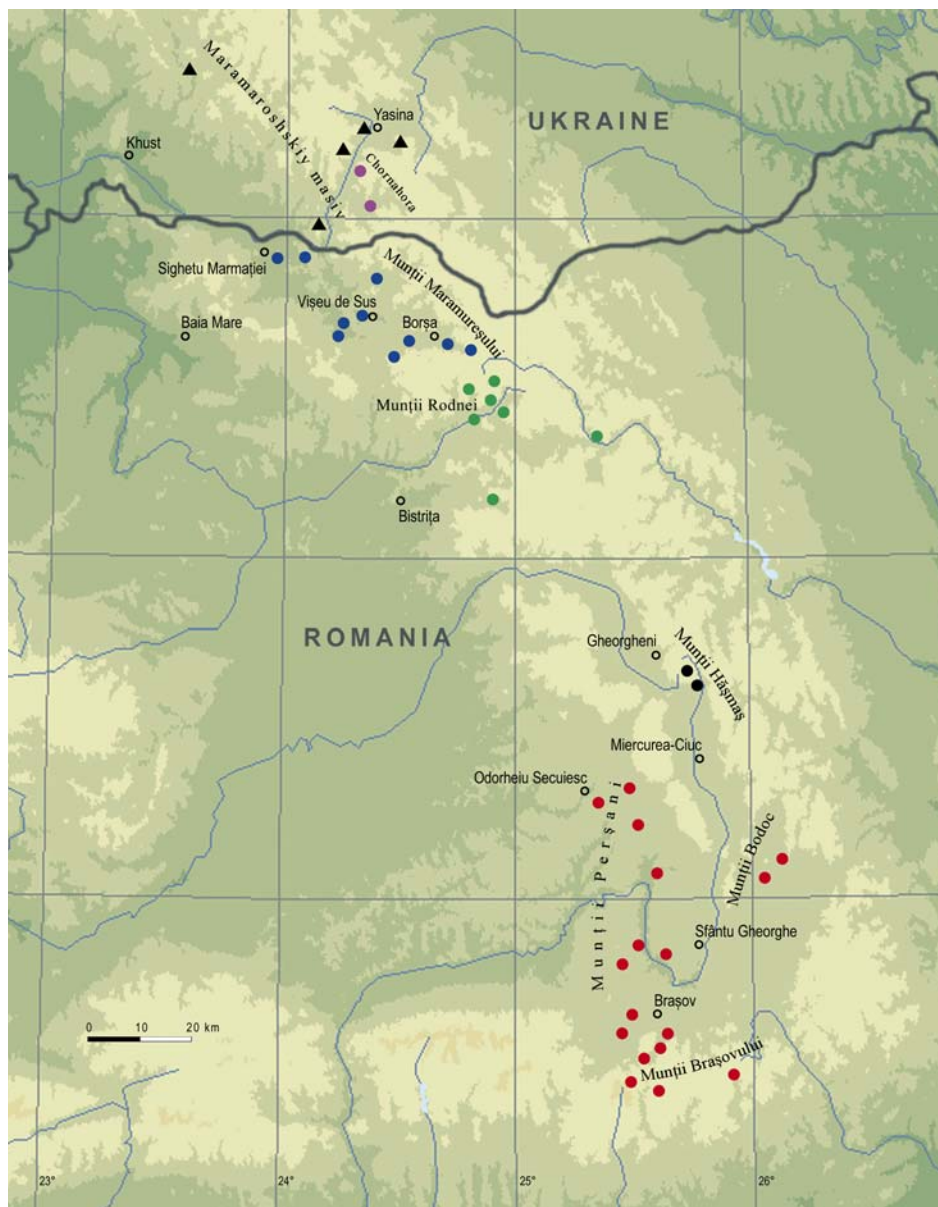


Fig. 19. Distribution map with localities of *C. (Morphocarabus) incompsus* Kraatz, 1880 and *C. (Morphocarabus) zawadzki seriatissimus* Reitter, 1896: *C. (Morphocarabus) incompsus incompsus* Kraatz, 1880 (red dots), *C. (Morphocarabus) incompsus mehelyanus* Csiki, 1906 (black dots), *C. (Morphocarabus) incompsus spectabilis* Csiki, 1906 (green dots), *C. (Morphocarabus) incompsus mendax* Csiki, 1906 (magenta dots), *C. (Morphocarabus) incompsus pseudoseriatissimus* ssp. n. (blue dots), *C. (Morphocarabus) zawadzki seriatissimus* Reitter, 1896 (black triangles)

Etymology – The subspecific epithet of the new subspecies refers to the similarity to *C. zawadzki* *seriatissimus*.

Distribution – The new subspecies occurs in the Maramureş county (Romania), Munţii Maramureşului, in the altitude 300–900 m (Fig. 19). The known localities are Vişeu de Sus (Felsővisó), Vişeu de Jos (Alsóvisó), Pasul Şetref, Moisei (Majszin), Dobăieşi (Mélypatak), Bocicoiu Mare (Nagybocskó), Bocicoel (Kisbocskó), Ruscova – Repedea (Visóoroszi – Oroszkő), Bogdan Vodă (Izakonyha), Borşa (Borsa), Lunca la Tisa (Tiszalónka) (BARLOY & PRUNAR 2011).

C. (Morphocarabus) incompus Kraatz, 1880 is divided into the following subspecies with their distribution (Fig. 19):

C. incompus incompus Kraatz, 1880: Romania, Curvature Carpathians: Munţii Braşovului (Brassói-havasok), Munţii Perşani (Persányi-hegység), Munţii Bodoc (Bodoki-hegység);

C. incompus mehelyanus Csiki, 1906: Romania, Eastern Carpathians: Munţii Hăşmaş (Hagymás-hegység);

C. incompus spectabilis Csiki, 1906: Romania, Northeastern Carpathians: Munţii Rodnei (Radnai-havasok);

C. incompus pseudoseriatissimus ssp. n.: Romania, Northeastern Carpathians: Munţii Maramureşului (Máramarosi-havasok);

C. incompus mendax Csiki, 1906: Ukraine, Northeastern Carpathians, Maramaroshskiy masiv (Máramarosi-havasok): Chornohora (Csornahora).

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