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**Autor:** Zamotajlov, A. S.  
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## On new Carabids of the Genus *Carabus* Linné (Coleoptera, Carabidae) from the Caucasus. 5th Contribution

by A.S. Zamotajlov\*

Abstract: Two subspecies of the genus *Carabus* L. from the West Caucasus are described as new: *C. (Cechenochilus) boeberi adyg* n. ssp. and *C. (Cechenochilus) heydenianus dzhentui* n. ssp.

Key words: Coleoptera Carabidae – Caucasus – Carabus – new subspecies – taxonomy.

This contribution is based on the materials recently collected by the members of the Russian Entomological Society in Krasnodar and presents descriptions of two new *Cechenochilus* subspecies from the West Caucasus. Both represent geographically extreme populations of the respective species – westernmost one of *C. boeberi* Ad. and easternmost one of *C. heydenianus* Starck. The author is much obliged to Dr. I. Belousov of St.–Petersburg for useful information on *Cechenochilus*-species of Mt. Khatsavitaya and distribution of some species in the West Caucasus, and to Dr. A. Miroshnikov and Mr. V. Shchurov, both of Krasnodar, for their help in field investigations.

The abbreviations used herein for indication of deposition of the type materials are as follows:

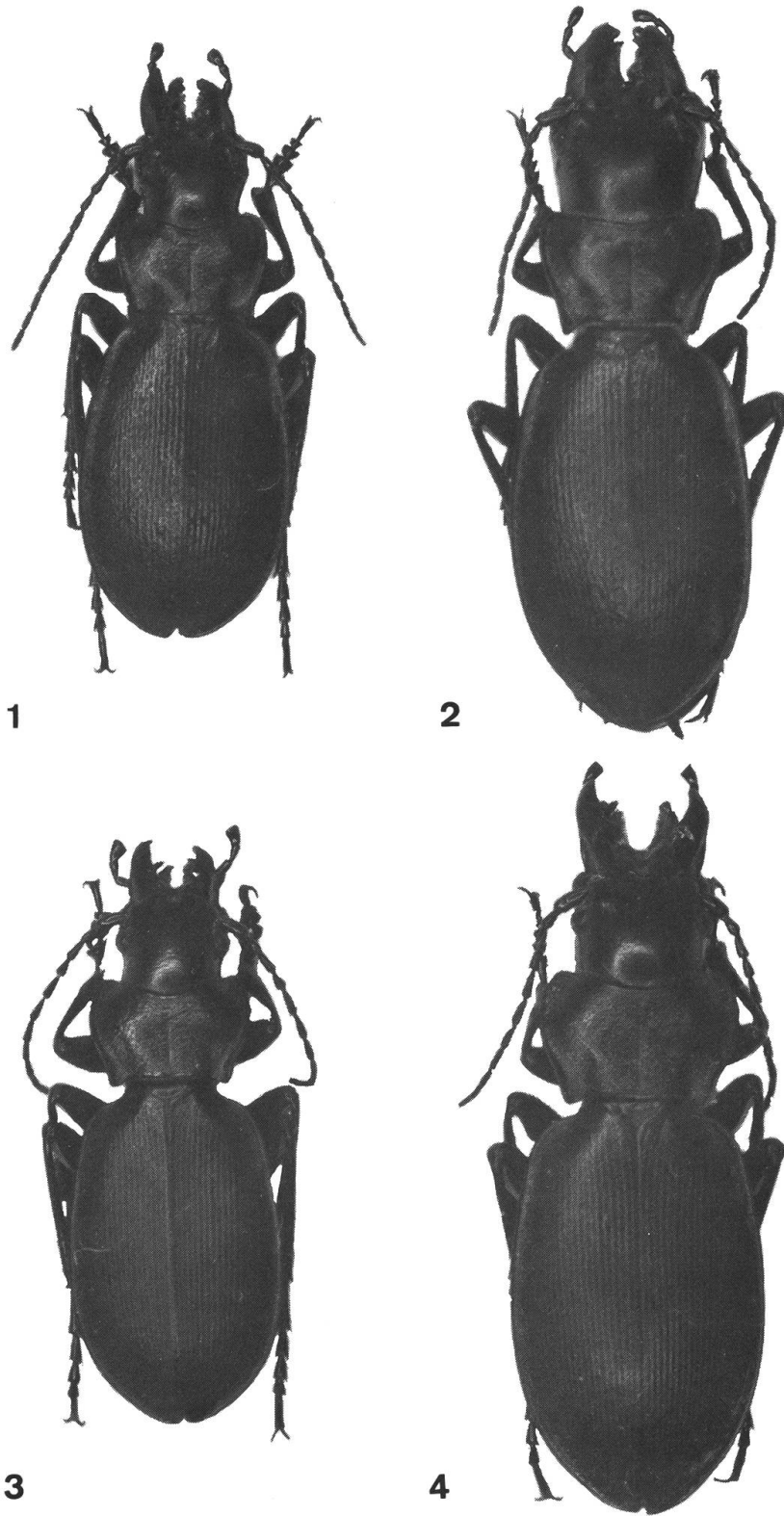
- AM = collection of Dr. A. Miroshnikov, Krasnodar
- APM = Aomori Prefectural Museum, Aomori
- AZ = collection of Dr. A. Zamotajlov, Krasnodar
- IB = collection of Dr. I. Belousov, St.Petersburg
- NHMB = Natural History Museum, Basel
- ZISP = Zoological Institute of the Russian Academy of Sciences, St. Petersburg

### 1. *Carabus (Cechenochilus) boeberi adyg* n.ssp. Figs 1,2,5.

Habitus (Figs 1, 2): Length 15.0–19.4 mm. Black, dorsum usually somewhat greenish or greenish-blue, lateral margins of pronotum and

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Figs 1–4: *Carabus*, general view. 1, *C. boeberi adyg* n.ssp., holotype. 2, idem, paratype. 3, *C. heydenianus dzhentui* n.ssp., holotype. 4, idem, paratype.

elytra violet, sometimes dorsum with bronze lustre. Habitually resembles *C. boeberi felix* Sem.

Holotype: ♂ (ZISP), W. Caucasus, Mt. Dzhentu, 2500–2700 m, 6.VI.1995, A. Zamotajlov, A. Miroshnikov, & V. Shchurov. Paratypes: 5 ♂ (AZ & AM), same locality, together with holotype. 2 ♂ & 2 ♀ (NHMB); 1 ♂ & 1 ♀ (APM); 10 ♂ & 5 ♀ (AZ & AM); 1 ♂ & 1 ♀ (IB), same locality, 6.VI.–12.VIII. 1995, A. Zamotajlov, A. Miroshnikov, & V. Shchurov. 1 ♂ (AZ & AM), same locality, 11.VII.1994, V. Shchurov.

This subspecies differs from all hitherto known ones of *C. boeberi* Ad. (GOTTWALD, 1983) in missing or indistinct ridges of elytral sculpture in apical one-eighth, which is covered instead by rather coarse tubercles, and missing foveoles of primary interspaces punctuation at elytral apex. Resembling habitually and being distributed most closely to *C. boeberi felix* Sem., the new subspecies is much closer in shape of tooth of mentum to the nomynotypical one and related forms than to *C. boeberi felix* Sem. (Fig. 5). Male genitalia has no principal differences from the other subspecies of *C. boeberi* Ad.

*C. boeberi* Ad. has been unknown from the North–West Caucasus till now (ZAMOTAJLOV, 1992). *C. boeberi adyg* n. ssp. represents its westernmost subspecies, strongly disjunct in geographical respect from the others. Noteworthy, remains of the very close appearance were found by Dr. I. Belousov (oral communication) at neighbouring to Dzhentu Mt. Khatsavitaya.

## 2. *Carabus (Cechenochilus) heydenianus dzhentui* n. ssp.

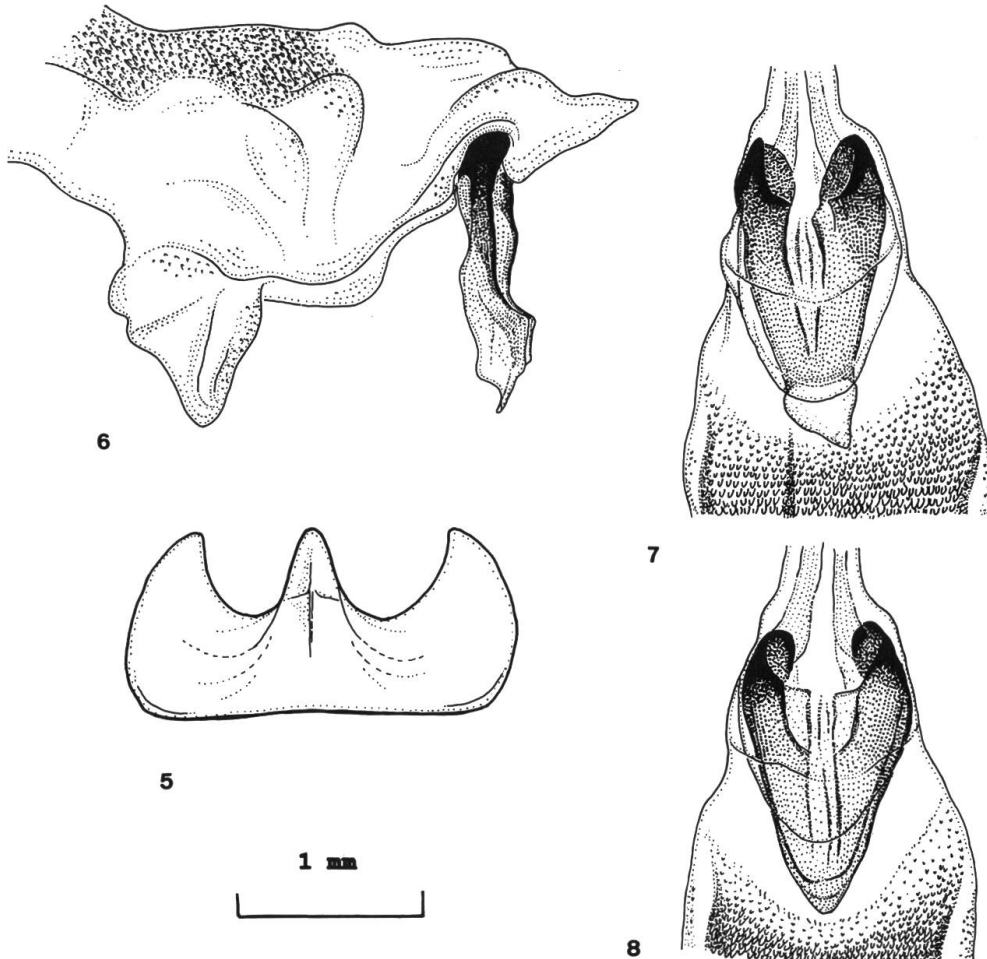
Figs 3, 4, 6–8.

Habitus (Figs 3, 4): Length 14.7–20.2 mm. Black, dorsum somewhat greenish or greenish-blue. Habitually resembles the nomynotypical subspecies.

Holotype: ♂ (ZISP), W Caucasus, Mt. Dzhentu, 2500–2700 m, 6.VI.1995, A. Zamotajlov, A. Miroshnikov, & V. Shchurov. Paratypes: 7 ♂ & 9 ♀ (AZ & AM), same locality, together with holotype. 2 ♂ & 1 ♀ (NHMB); 1 ♂ & 1 ♀ (APM); 33 ♂ & 10 ♀ (AZ & AM); 1 ♂ & 1 ♀ (IB), same locality, 6.VI.–12.VIII.1995, A. Zamotajlov, A. Miroshnikov, & V. Shchurov. 1 ♂ (AZ & AM), same locality, 14.VII.1994, V. Shchurov. 1 ♂ (AZ & AM), same locality, 14.VII.–26.VIII.1994, A. Zamotajlov, A. Miroshnikov, & V. Shchurov.

Habitually resembles other subspecies of *C. heydenianus* Starck, though is distinguishable by broader and stronger projected forwards front angles of pronotum and somewhat broader explanate border of elytra near shoulders. Aedeagus somewhat stronger bent dorsally. Copulatory pieces (Figs 6, 7) narrower than in the other subspecies (Fig. 8), with large membranous desclerotized process apically.

The present form occupies obviously a position somewhat transitional between *C. heydenianus* Starck and *C. adangensis* Gottw., the latter substituting it at the neighbouring to Mt. Dzhen-tu ranges Abishiraak-huba and Magisho (latter locality has no serious natural barriers from Dzhen-tu and is situated only about 4 km apart from it).



Figs 5–8: *Carabus*, details. 5, *C. boeberi adyg* n.ssp., paratype, tooth of mentum. 6, *C. heydenianus dzhentui* n.ssp., holotype, endophallus in complete erection. 7, idem, paratype, copulatory pieces. 8, *C. heydenianus heydenianus* Starck from Mt. Abadzesh, copulatory pieces.

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Author's address:

Dr. Alexandr S. Zamotajlov  
ul. Kalinina 13, korp. 43, kv. 27  
350044 Krasnodar  
Russia

