

First records of *Megamecus urbanus* (Gyllenhal, 1834) (Coleoptera, Curculionidae) in Siberia, Russia

Первые находки *Megamecus urbanus* (Gyllenhal, 1834) (Coleoptera, Curculionidae) в Сибири

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Ключевые слова: Curculionoidea, Entiminae, Танымесини, новый синоним, новая находка, Россия.

Abstract. The first records of *Megamecus* (*Megamecus*) *urbanus* (Gyllenhal, 1834) in southern regions of Western Siberia, Novosibirskaya Oblast, Altaiskii Krai, and Tyva Republic, are given. *Megamecus cervulus* Reitter, 1903, **syn.n.** is synonymized under *M. urbanus* (Gyllenhal, 1834), and *Gnathomecus* Reitter, 1903, **syn.n.** under *Megamecus* (*Megamecus*) Reitter, 1903.

Резюме. В статье приведены первые находки *Megamecus* (*Megamecus*) *urbanus* (Gyllenhal, 1834) на юге Западной Сибири из Новосибирской области, Алтайского края и Республики Тыва. *Megamecus cervulus* Reitter, 1903, **syn.n.** синонимизирован с *M. urbanus* (Gyllenhal, 1834), а род *Gnathomecus* Reitter, 1903, **syn.n.** — с номинативным подродом рода *Megamecus* (*Megamecus*) Reitter, 1903.

Introduction

The genus *Megamecus* Reitter, 1903 belongs to the tribe Tanymecini and is distributed in Europe, Turkey, Caucasus, Transcaucasia, Siberia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, Pakistan, Turkmenistan, Uzbekistan, Mongolia, China, India, Nepal, and Africa (Chad, Sudan) [Günther, Zumpt, 1933; Alonso-Zarazaga, Lyal, 1999; Ahmed, Legalov, 2015; Alonso-Zarazaga et al., 2023]. This genus was represented by two species *Megamecus* (*Acercomecus*) *bidentatus* (Gebler, 1829) and *M. (Megamecus) variegatus* (Gebler, 1829) in Siberia [Legalov, 2020b].

These are the first records of *Megamecus* (*Megamecus*) *urbanus* (Gyllenhal, 1834) for Novosibirskaya Oblast, Altaiskii Krai, and Tyva Republic. This paper is a continuation of the author's work [Legalov, 1998, 2020 a,b, 2023 a,b, 2024; Legalov, Reshetnikov, 2022] devoted to the study of the tribe Tanymecini.

Materials and methods

The material is deposited in the Institute of Systematics and Ecology of Animals, Novosibirsk, Russia.

Nomenclatural act introduced in the present work is registered in ZooBank (www.zoobank.org)

under urn:lsid:zoobank.org:pub: urn:lsid:zoobank.org:pub:40376D49-B4FE-46F6-AE4D-1E15E6A4F04E

Results

Curculionoidea: **Curculionidae:**
Entiminae: Tanymecini: Tanymecina
***Megamecus* Reitter, 1903**

Type species: *Tanymecus cinctus* Faust, 1887

***Megamecus* (*Megamecus*) Reitter, 1903**

= *Gnathomecus* Reitter, 1903, **syn.n.**

Type species: *Megamecus cervulus* Reitter, 1903 (= *Tanymecus urbanus* Gyllenhal, 1834, **syn.n.**)

***Megamecus* (*Megamecus*) *urbanus* (Gyllenhal, 1834)**

Figs 1–11.

Tanymecus urbanus Gyllenhal, 1834;

= *Megamecus cervulus* Reitter, 1903, **syn.n.**

Material. *Russia, Astrakhanskaya Oblast:* 1♂ — Bogdo-Baskunchak Nature Reserve, Karasun Lake, 48.262°N, 46.958°E, 17.V.2021, R. Dudko leg.; *Novosibirskaya Oblast:* 1♂ — Karasuksky Distr., near Troitskoe Lake, 8.VI.1988, Yu. Chekanov leg., 1♂ — idem, 29.IV.2023, V. Zinchenko leg.; *Altaiskii Krai:* 1♀ — env. Rubtsovsk, 51°31.974'N, 81°09.576'E, 14.VI.2021, A. Legalov leg.; 1♀ — Rubtsovsky Distr., Vesoloyarsk, 5.VI.1925, V. Vereshagin leg.; 1♂ — Rubtsovsky Distr., 5 km NE of Bobkovo, Gor'koe Lake, 51°42'N, 81°30'E, 9.VIII.2013, A. Legalov leg.; *Tyva Republic:* 1♀ — Piy-Khemsy Distr., 540 km NW of Seserlig, 24.VII.1989, D.V. Logunov leg.; *Kazakhstan, Aktobe Region:* 1♂ — 68 km E of Bozoi, 31.V.2011, A. Ivanov leg.; *Kyzylorda Region:* 1♂, 1♀ — Aral Sea, 46°20'N, 59°41'E, 31.V.2011, A. Ivanov leg.; 1♂, 1♀ — Aral Sea, Chernyshev Bay, 4.VI.2000, A. Ivanov leg.; *Jambyl Region:* 1♀ — S tip of Balkhash Lake, desert near lake Alakol, 44.818°N, 74.309°E, 6–7.VI.2023, R. Dudko leg.; *Abai Region:* 1♀ — SW coast of Balkhash Lake, 10.VI.1955, coll. - ?; 1♂ — Aksuat Distr., S of Zaisan Lake, Aigyrum, 48°01.5'N, 83°20'E, 400 m, 4–5.V.2017, R. Dudko leg.; *Tadjikistan, Khatlon Region:* 1♂ — Jayhun Distr., 19.VII.1988, O. Kostenko leg.; 3♂, 1♀ — 8 km E of Dusti, 17–23.VI.–20.VII.1982, V. Dubatolov leg.; *Uzbekistan, Jizzakh Region:* 3♂♂ — Aydarko'l Lake, 40.677°N, 67.295°E, 16.V.2023, R. Dudko leg.; *Bukhara Region:* 1♂ — 33 km NE of Gazli village, near irrigation canals, 40.263°N, 63.823°E, 13.V.2023, R. Dudko leg.; *Mongolia, Hovd aimak:* 2♀♀ — Bodonchijn-Gol riv. valley, 46°06'N, 92°30'E, 1600 m, 3.VII.2010, R. Yakovlev, E. Guskova leg.; 1♀ — Bodonchijn-Gol valley,



1



2



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4



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6



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8



9



10



11

Figs 1–11. Details of *Megamecus urbanus* morphology from different regions: Russia, Novosibirskaya Oblast (1, 5) and Tyva Republic (2, 6), and Kazakhstan (3, 4, 7–11), male (1, 3, 4, 5, 7, 9–11) and female (2, 4, 6, 8) in dorsal view (1–9, 11) and lateral view (10). 1–4 — habitus; 5–8 — головотрубка и голова; 9, 10 — aedeagus; 11 — apex of aedeagus. Scale bar 1.0 for Figs 1–8, 0.5 mm for Figs 9–11.

Рис. 1–11. Детали строения *Megamecus urbanus* из разных регионов: Россия, Новосибирская область (1, 5) и Республика Тыва (2, 6), Казахстан (3, 4, 7–11), самец (1, 3, 4, 5, 7, 9–11) и самка (2, 4, 6, 8) сверху (1–9, 11) и сбоку (10). 1–4 — габитус; 5–8 — rostrum and head; 9, 10 — эдеагус; 11 — вершина эдеагуса. Масштаб: 1,0 мм для рис. 1–8, 0,5 мм для рис. 9–11.

25 km NW of Altan-Soembo, 45°53' N, 93°05' E, 1700 m, 5.VII.2010, R. Yakovlev, E. Guskova leg.; *Uvs aimag*: 1♀ — N of Uvs Lake, Torhilog, 5–8.VII.1991, S. Dorzh leg.

Remarks. *Megamecus urbanus* (Gyllenhal, 1834) was described from Caucasus and «Persia» (=Iran) [Schoenherr, 1834]. *Megamecus cervulus* Reitter, 1903 was described from «Transcaspien: Askhabad, Merv, Issyk-kyl» [Reitter, 1903]. The subgenus *Gnathomecus* Reitter, 1903 was established for *Megamecus cervulus* based on mandibles with a deciduous process. Beetles with mandibles with or without a deciduous process are morphologically identical. Probably, in some specimens the deciduous process disappears immediately, and in others it persists for at least some time. Therefore, the species *Megamecus cervulus* Reitter, 1903, **syn.n.** is synonymized under *M. urbanus* (Gyllenhal, 1834). *Megamecus cervulus* was erected as type species for the *Gnathomecus*. The synonymy of *Megamecus cervulus* and *M. urbanus* allows considering genus *Gnathomecus* Reitter, 1903, **syn.n.** as a junior synonym of the nominative subgenus *Megamecus* (*Megamecus*) Reitter, 1903.

Distribution. Southeast European Russia, South Siberia (new record), Armenia, Azerbaijan, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Turkmenistan, Iran, Mongolia, China (Gansu, Hebei, Henan, Ningxia, Neimenggu (Inner Mongolia), Qinghai, Sichuan and Xinjiang [Günther, Zumpt, 1933; Bajtenov, 1974; Legalov et al., 2010; Alonso-Zarazaga et al., 2023].

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