

First Records of an East Asian Seed Beetle *Megabruchidius dorsalis* Fåhraeus (Coleoptera, Bruchidae) from Germany and the Black Sea Coast of Crimea and Caucasus

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Abstract—The East Asian seed beetle *Megabruchidius dorsalis* Fåhraeus is recorded for the first time from Germany (Frankfurt on Main) and the Russian Black Sea coast in Crimea (Saki) and Krasnodar Territory (Gelendzhik).

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The East Asian seed beetle *Megabruchidius dorsalis* Fåhraeus is apparently broadening its distribution in Europe. In 1989 it was first found in Italy (Migliaccio, Zampetti, 1989); in 2009, recorded from Hungary (Budapest) and Switzerland (Basel) (Yus Ramos, 2009); in 2015, from Slovakia (Řiha and Bezděk, 2015), Ukraine (Kiev) (Fursova and Nazarenko, 2015), and Russia (Northwestern Caucasus) (Korotyaev, 2015). In the winter 2015–2016 this species was for the first time reared from *Gleditsia* pods taken in Germany (Frankfurt on Main) and on the Russian Black Sea coast in Crimea (Saki) and Krasnodar Territory (Gelendzhik).

Megabruchidius dorsalis Fåhraeus, 1839

Germany. Frankfurt on Main, *Gleditsia triacanthos* L. pods taken December 2015 (M.B. Korotyaev, N.A. Kudryavtseva), adults emerged in January 2016 (6 spms.) and from February 27 to March 16, 2016 (2 spms.); pods taken on 27.II.2016, adult emergence until 16.III.2016 (1 spm.). **Russia. Crimea.** Saki City, *G. triacanthos* L. pods taken on X.2015 (V.G. Averintsev), 1 adult emerged in January, 2016. **Krasnodar Terr.** Krasnodar, cemetery, *G. triacanthos* L. pods taken on 6.X.2015 (B.A. Korotyaev), adults' emergence January through March 16, 2016 (7 spms.); Gelendzhik, *G. triacanthos* L. pods taken on 26.IX.2015 (B.A. Korotyaev), adults' emergence December 2015 through February 3, 2016 (15 spms.).

V.G. Averintsev has also collected *Gleditsia* pods with a great number of bruchids' emergence holes in September 2015 in Rostov Province (Azov District,

Semibalki Village, 200 m from the Sea of Azov), but no beetle emerged until mid-March 2016 although there were no emergence holes from part of the seeds in the few pods collected. Neither has any beetle emerged from several *Gleditsia* pods with emergence holes collected by V.G. Averintsev in October 2015 in Alushta (Crimea).

In late February 2016, several *Gleditsia* pods with many emergence holes were collected by Mrs. I.A. Belova in the Botanical Garden in Krasnodar; no bruchid emergence was observed by mid-March, 2016.

In 2011–2013, a different bruchid species, *M. tonkineus* Pic, was reared from *Gleditsia* pods collected in Krasnodar and its vicinities, and the numbers of individuals emerging from approximately the same amount of pods were almost 100 times as great. It is likely, that in Krasnodar and in the entire southern Europe *M. tonkineus* is being substituted by *M. dorsalis*, perpetually or temporarily (cyclically). It is noteworthy that the new *Gleditsia* seed feeder noticeably differs from *M. tonkineus* in phenology and emergence dynamics, with the intensity of adults' emergence being clearly smaller (at least in the autumn and winter of 2016).

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