



Discoveries of Carpet Beetles (Coleoptera: Dermestidae) of the South of Russia

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DOI: 10.24896/easl2017427

SUMMARY. As a result of the collecting in 2003–2015 in the south part of European Russia and in the North Caucasus 15 species of the carpet beetles (Dermestidae) were found, which was firstly recorded for the Russian territory or was recently listed without specific information: *Dermestes intermedius* Kalik, 1951, *Dermestes elegans* Gebler in Ledebour, 1830, *Attagenus fasciolatus* (Solsky, 1876), *Anthrenus amoenulus* Reitter, 1896, *Anthrenus zebra* Reitter, 1889, *Anthrenus latefasciatus* Reitter, 1892, *Anthrenus olgae* Kalik, 1946, *Anthrenus tadzhicus* Mroczkowski, 1961, *Anthrenus hissaricus* Mroczkowski, 1961, *Anthrenus sordidulus* Reitter, 1889, *Attagenus ionicus* Zhantiev, 2005, *Attagenus unicolor simulans* Solsky, 1876, *Attagenus suspiciosus* Solsky, 1876, *Ctesias hajeki* Hava, 2005, *Megatoma conspersa* Solsky, 1876.

HOW TO CITE THIS ARTICLE: S.V. Pushkin, Discoveries of Carpet Beetles (Coleoptera: Dermestidae) of the South of Russia, Entomol Appl Sci Lett, 2017, 4 (2):29-31, DOI: 10.24896/easl2017427

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Received: 02/02/2017
Accepted: 03/05/2017

The faunal lists, carpet beetle (Dermestidae) in Russia and neighboring countries are published in several papers [1-13]. In a recent article [4] presented the first information about the kinds of 8 from the Chechen Republic including 1 was a new species for Russia. The site of the Zoological Institute of Russian Academy of Sciences (<http://www.zin.ru/Animalia/Coleoptera/rus/cadaastre.htm>) A.G. Kirejtshuk and R.D. Zhantiev lead to the fauna of Russia 76 species. For the territory of Southern Russia indicated 35 species of [2, 3].

The material presented in this paper were collected 2003-2015, S.V. Pushkin, in different districts of Dagestan and other regions. Was collected using standard methods. Determination is made A. Hermann; studied material is kept in a private collection of A. Hermann (Germany, Stade) and in the collection S. Pushkin (Stavropol, Zoological Museum of the North Caucasus Federal University).

Below is a listing of new species for the fauna of Russia. Nomenclature and sequence of taxon are accepted by the System [4]. Annotations include

information on distribution (in the States), and the necessary comments.

THE LIST OF SPECIES

Dermestes Linnaeus, 1758

Subgenus *Dermestinus* Zhantiev, 1967

1. *Dermestes intermedius intermedius* Kalik, 1951

Distribution: EU: Austria; Bulgaria; Czech Republic; Crete; Croatia; Cyprus; Germany; Greece; Hungary; Italy; Macedonia; Romania; Russia: Ingushetia Republic; Slovakia; Turkey; Ukraine [1].

Material. North Ossetia: Neighborhood of the city of Vladikavkaz, 20.05.2010, 3 ex., SV Pushkin; Ingushetia: The vicinity of the town of Magas, 25.07.2010, 4 ex, SV Pushkin.

Comment. Probably the species imported from neighboring regions due to heavy turnover in recent years.

2. *Dermestes elegans* Gebler in Ledebour, 1830

Distribution: EU: Turkey; AS: N China; Iran; Kazakhstan; Kyrgyzstan; Mongolia; Tadjikistan; Turkmenistan; Uzbekistan [4].

Material: 17-22.8.2015 Dagestan: Lakskiy District, near Hulisma village. New to Russia.

Attagenus Latreille, 1802 Subgenus Attagenus s.str.3. *Attagenus fasciolatus* (Solsky, 1876)

Distribution: **AS**: "Caucasus"; Kazakhstan; Mongolia; Russia; Saudi Arabia; Tadjikistan; Turkmenistan; Uzbekistan [4].

Material. Krasnodar region, near the city of Krasnodar, 20.05.2007, 2 ex., SV Pushkin; Rostov region, Rostov-on-Don, 19.07.2002, 3 ex., SV Pushkin; Region of Stavropol, Stavropol, 20.07.2011, 5 ex., SV Pushkin; Kalmykia, Elista, 5.09.2010, 3 ex., SV Pushkin; Astrakhan region: Astrakhan, 3.07.2008, 5 ex., SV Pushkin; Kharabali, 5.07.2008, 1 ex., SV Pushkin.

Anthrenus Geoffroy, 1762**Subgenus Anthrenodes Chobaut, 1898**4. *Anthrenus amoenulus* Reitter, 1896

Distribution. Afghanistan, «Caspian Lowlands», «Caucasus», Iran, Turkmenistan, Turkey [4].

Here is the first time the actual material from Russia.

Material. Stavropol Territory: Stavropol, 20.07.2013, 3 ex., SV Pushkin; 08.20.2014, 2 ex., SV Pushkin; Mineral water, 08.02.2013, 2 ex., SV Pushkin; 07.06.2014, 3 ex., SV Pushkin.

Comment. Perhaps the findings related to the importation of Asian and Caucasian countries. In the Stavropol region has successfully passed to the form commensal lifestyle. In warehouses found its larvae.

Subgenus Anthrenops Reitter, 18815. *Anthrenus zebra* Reitter, 1889

Distribution: **EU**: Armenia; Azerbaijan; Turkey; **AS**: Afghanistan; Iran; Turkmenistan [4]. Russia: Chechen Republic [1].

Material. Russia: Chechen Republic, the neighborhood of the village Goragorsky, steppe, mowing net, 20.06.2009, 20 ex., SV Pushkin.

Subgenus Anthrenus s.str.6. *Anthrenus latefasciatus* Reitter, 1892

Distribution: **EU**: Russia; Turkey; **AS**: Afghanistan; „Caucasus“; N China; Iran; Kazakhstan; Kyrgyzstan; Mandzhuria; Mongolia; North Korea; Pakistan; Russia; Syria; Tadjikistan; Turkmenistan; Uzbekistan [4].

For the territory of the Russian [Hava, 2015], but the actual material here is for the first time.

Material. Rostov region, Rostov-on-Don, 20.06.2003, 1 ex., SV Pushkin; Kalmykia, Elista,

10.07.2009, 2 ex., SV Pushkin; North Ossetia, Vladikavkaz, 20.08.2010, 3 ex., SV Pushkin.

Subgenus Florilinus Mulsant & Rey, 18687. *Anthrenus olgae* Kalik, 1946

Distribution: **EU**: Austria; Bulgaria; Cyprus; Czech Republic; England; Finland; Germany; Hungary; Latvia; Montenegro; Netherlands; Poland; Slovakia; Sweden; Ukraine; **AMN**: Canada (intr.) [4].

Material. Kalmykia, Elista, 20.07.2006, 3 ex., SV Pushkin; Astrakhan region, Astrakhan, 15.08.2011, 2 ex., SV Pushkin.

Comment. In Russia, probably imported.

Subgenus Solskinus Mroczkowski, 1962a:2528. *Anthrenus tadjicus* Mroczkowski, 1961.

Described from Tajikistan [4].

Material: Dagestan Tlyaratinsky District, near Kamiluh village. S.V. Pushkin. New to Russia 10-19.7.2015.

Subgenus Anthrenops Reitter, 18819. *Anthrenus hissaricus* Mroczkowski, 1961.

Material: Dagestan. Tlyaratinsky District, near Kamiluh village S.V. Pushkin. New to Russia 10-19.7.2015.

Subgenus Florilinus Mulsant & Rey, 186810. *Anthrenus sordidulus* Reitter, 1889.

Distribution: **EU**: Cyprus; Greece: Dodecanese Is., Rhodes I.; Spain; Turkey; **AF**: Egypt; **AS**: Israel; Syria [4].

Material: Dagestan: Lakskiy District, near Hulisma village S. V. Pushkin, 17-22.8.2015. New to Russia.

Subgenus Attagenus Latreille, 180211. *Attagenus ionicus* Zhantiev, 2005.

Distribution: **EU**: Crete; Greece: Samos; Turkey [4].

Material: 17-22.8.2015. Dagestan: Lakskiy District, near Hulisma village, S. V. Pushkin. New to Russia.

12. *Attagenus unicolor simulans* Solsky, 1876.

Distribution: **AS**: Afghanistan; China: Hebei, Inner Mongolia, Xingjiang; Kazakhstan; Kyrgyzstan; Mongolia; Russia; Tadjikistan; Turkmenistan; Uzbekistan [4].

Material: 10-19.7.2015 Dagestan: Tlyaratinsky District, near Kamiluh village S. V. Pushkin

13. *Attagenus suspiciosus* Solsky, 1876.

Distribution: AS: Afghanistan; China: Sinkiang; Iran; Kazakhstan; Kyrgyzstan; Mongolia; Tadjikistan; Turkmenistan; Uzbekistan [4].

Material: 17-22.8.2015. Dagestan: Lakskiy District, near Hulisma village. S. V. Pushkin. New to Russia.

Genus *Ctesias* Stephens, 1830:124

Subgenus *Tiresiomorpha*

14. *Ctesias hajeki* Hava, 2005.

Distribution: AS: Iran. [4].

Material: 10-19.7.2015. Dagestan. Tlyaratinsky District, near Kamiluh village. S. V. Pushkin. New to the Russia.

Subgenus *Pseudohadrotoma* Kalik, 1951

15. *Megatoma conspersa* Solsky, 1876

Distribution: AS: Afghanistan; China: Xinjiang; Kazakhstan; Kyrgyzstan; Uzbekistan [4].

Material: 17-22.8.2015 Dagestan: Lakskiy District, near Hulisma village. New to Russia.

Thus, species composition, carpet beetles (Dermestidae) has on the territory of Russia 88 species. Found the above types of complementary list are available on the website of the Zoological Institute [http://www.zin.ru/Animalia/Coleoptera/rus/derm_ru.htm].

Acknowledge

The work was carried out by the authors jointly in 2010-2015 due to money resources of S.V. Pushkin.

Authors contribution

The papers was carried out by the author on the basis of data collected during the identification of carpet beetle charges conducted in the south of the European part of Russia. The work was carried out at the expense of Pushkin S.V.

Conflict of interest

In the article there is no information capable of provoking conflicts of interest, with the exception of information contained in previously published articles by the author.

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