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First record of *Dorcatoma janssoni* Büche & Lundberg, 2002 (Coleoptera: Ptinidae) from Russia

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Abstract. The deathwatch beetle *Dorcatoma janssoni* Büche & Lundberg, 2002 (Coleoptera: Ptinidae) is recorded from Russia for the first time. Specimens were collected in the European part of Russia (Ryazan Oblast, Oka State Nature Biosphere Reserve) using window traps mounted 140–160 cm above ground level on dead wood of *Populus tremula*. The study site represents a mixed forest dominated by *P. tremula* with associated species *Pinus sylvestris*, *Quercus robur*, and *Corylus avellana*. The collection yielded 13 additional species of xylophagous and mycetophagous beetles occurring syntopically with *D. janssoni*. Diagnostic morphological characters are illustrated with photographs of the male antenna and genitalia.

Keywords: fauna, deathwatch beetles, European Russia, Ryazan Oblast, Oka Nature Reserve

Первое указание *Dorcatoma janssoni* Büche & Lundberg, 2002 (Coleoptera: Ptinidae) из России

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Аннотация. Вид жуков-точильщиков *Dorcatoma janssoni* Büche & Lundberg, 2002 (Coleoptera: Ptinidae) впервые отмечен для России из европейской части (Рязанская область, Окский государственный природный биосферный заповедник), по материалам, собранным с помощью оконных ловушек. В ходе исследования оконные ловушки размещались на высоте 140–160 см над землей на упавшем стволе осины. Основу фитоценоза в районе исследования составляли *Populus tremula* с примесью *Pinus sylvestris*, *Quercus robur* и *Corylus avellana*. Вместе с *Dorcatoma janssoni* были собраны 13 видов жуков-ксилофагов и мицетофагов. Представлены фотографии антенны и гениталий самца *Dorcatoma janssoni*.

Ключевые слова: фауна, жуки-точильщики, европейская Россия, Рязанская область, Окский заповедник.

Introduction

The genus *Dorcatoma* Herbst, 1792 (Coleoptera: Ptinidae: Dorcatominae) comprises fungivorous beetles whose fauna remains understudied. Current knowledge suggests approximately 25 species occur in the Palearctic region (including *incertae sedis* taxa; Zahradník 2007), with five documented in North America (White 1966) and over thirty more distributed across other regions (Büche, Lundberg 2002).

During our study in the Oka State Nature Biosphere Reserve (Ryazan Oblast, European Russia), window trap collections yielded a *Dorcatoma* specimen representing the first record of *D. janssoni* Büche & Lundberg, 2002 for Russia.

Materials and methods

The male specimen of *Dorcatoma janssoni* was collected on 13 June 2024 using window traps deployed in a windfall area within the Oka Nature Reserve (exposure period: from 30 May to 13 June 2024). Morphological examination involved clearing genitalia and antennae in lactic acid (5 days), followed by meticulous dissection to remove excess tissue with the subsequent transfer of the specimen into a clean portion of lactic acid for photography.

We documented diagnostic characters using an Olympus CX43 compound microscope equipped with a DP23 6Mpx camera system. Image stacks were processed using Zerene Stacker 1.04 and finalized in Inkscape.

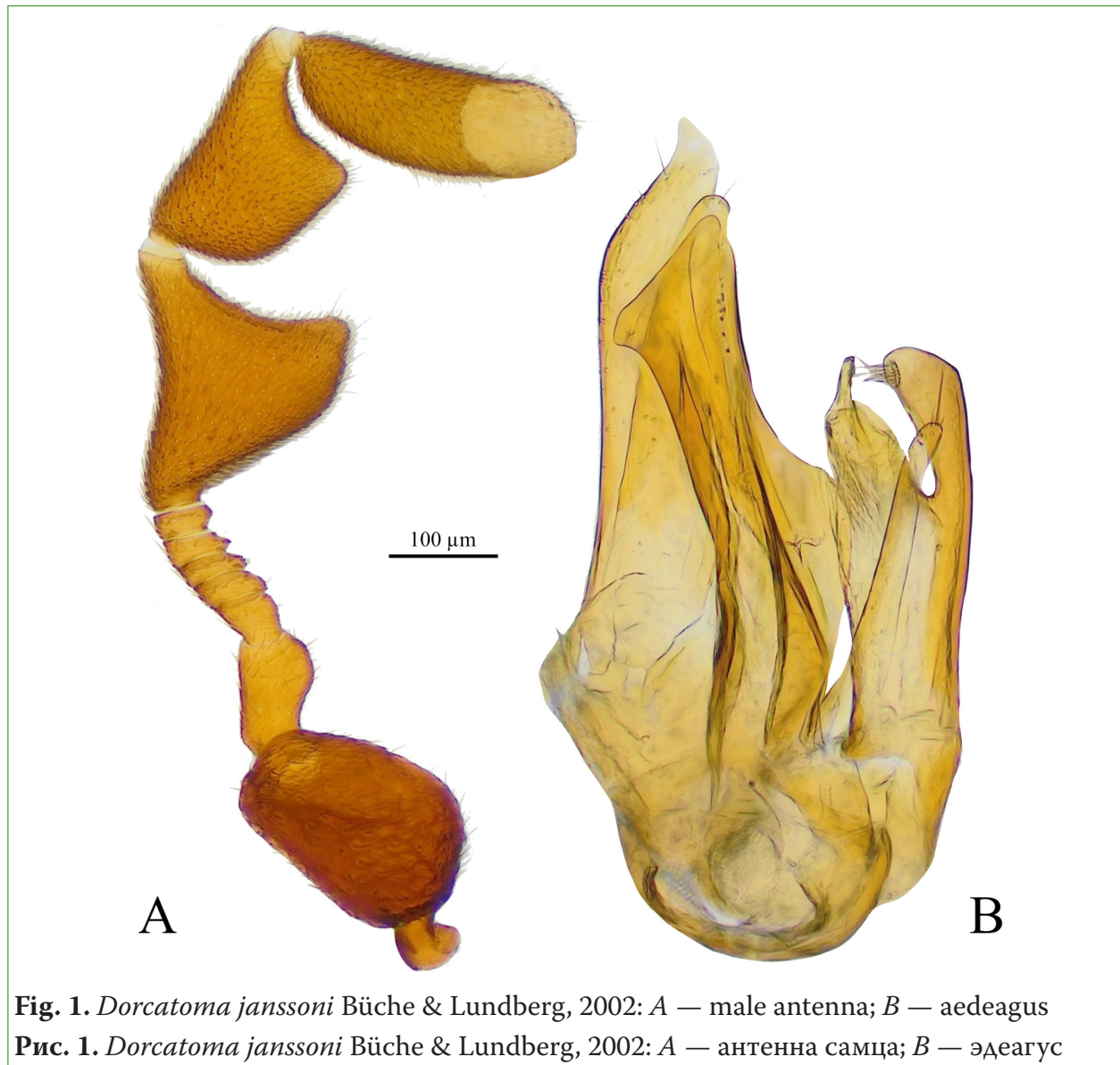


Fig. 1. *Dorcatoma janssoni* Büche & Lundberg, 2002: A — male antenna; B — aedeagus

Рис. 1. *Dorcatoma janssoni* Büche & Lundberg, 2002: A — антенна самца; B — эдеагус

GPS coordinates are taken according to Google Maps.

The specimen is deposited in the IBIW collection (Papanin Institute for Biology of Inland Waters, Yaroslavl Oblast).

Results and discussion

Dorcatoma janssoni Büche & Lundberg, 2002 (Fig. 1)

Material examined: 1♂, Russia: Ryazan Oblast, Oka Nature Reserve, Lakashinskoye forestry, square 73 (54.705724° N, 40.822833° E), windfall, 13.06.2024 I. Yu. Lychkovskaya leg.

This study reports the first record of *Dorcatoma janssoni* Büche & Lundberg, 2002 in Russia, representing the easternmost known occurrence of this species in Europe. Originally described from the Slitere Nature Reserve, Latvia (Büche, Lundberg 2002), the species has since been documented in Finland, Lithuania, Poland, and Sweden (Silfverberg 2010; Tamutis et al. 2011; Zahradník 2007).

As a typical member of the genus, *D. janssoni* is a saproxylic mycetobiont species. All life stages (larvae, pupae, and imagines) develop in decaying wood of *Picea abies* and *Betula pendula* after bark detachment, specifically in substrates colonized by the fungus *Fomitopsis pinicola* (Büche, Lundberg 2002). Our specimens were collected using window

traps positioned 140–160 cm above ground level on 4-year-old deadwood of *Populus tremula* (windfall from 2020) in a mixed forest dominated by *P. Tremula* with associated pine (*Pinus sylvestris*), oak (*Quercus robur* L.), and hazel (*Corylus avellana* (L.) H. Karst).

Together with *Dorcatoma janssoni*, the following beetle species were collected: *Lordithon lunulatus* (Linnaeus, 1761) (Staphylinidae), *Anisotoma orbicularis* (Herbst, 1792) (Leiodidae), *Contacyphon pubescens* (Fabricius, 1792) (Scirtidae), *Limonius aeruginosus* (Olivier, 1790) (Elateridae), *Rhagonycha lignosa* (O. F. Müller, 1764) and *Cantharis nigricans* O. F. Müller, 1776 (Cantharidae), *Dasytes niger* (Linnaeus, 1761) (Melyridae), *Triplax lepida* (Faldermann, 1837) (Erotylidae), *Ptinus rufipes* G.-A. Olivier, 1790 (Ptinidae), *Mycetophagus quadripustulatus* (Linnaeus, 1761) (Mycetophagidae), *Variimorda basalis* (Costa, 1854) (Mordellidae), *Phyllobius argentatus* (Linnaeus, 1758), *Strophosoma capitatum* (De Geer, 1775), and *Xyleborus* sp. (Curculionidae).

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