



Check for updates

<https://www.doi.org/10.33910/2686-9519-2024-16-3-813-820>  
<https://zoobank.org/References/f5faaeaf-da13-4113-b43f-021e76bd62bc>

UDC 595.76

## New data on the fauna of Coleoptera (Insecta: Coleoptera) of the Voroninsky Nature Reserve

A. N. Volodchenko<sup>1✉</sup>, I. A. Zabaluev<sup>2</sup>, E. S. Sergeeva<sup>1</sup>, O. A. Sergadeeva<sup>1</sup>

<sup>1</sup> Balashov Institute (branch) of Saratov National Research State University named after N. G. Chernyshevsky,  
29 Karla Marks Str., 412309, Balashov, Russia

<sup>2</sup> Zoological Museum of Lomonosov Moscow State University, 2 Bolshaya Nikitskaya Str., 125009, Moscow, Russia

### Authors

Alexey N. Volodchenko

E-mail: [kimixla@mail.ru](mailto:kimixla@mail.ru)

SPIN: 8076-3584

Scopus Author ID: 57193747186

ResearcherID: D-8140-2013

ORCID: 0000-0003-3742-4352

Ilya A. Zabaluev

E-mail: [fatsiccor66@mail.ru](mailto:fatsiccor66@mail.ru)

SPIN: 8543-4205

Scopus Author ID: 57216040083

ResearcherID: ACZ-2176-2022

ORCID: 0000-0002-1558-5502

Ekaterina S. Sergeeva

E-mail: [st.katy2001@yandex.ru](mailto:st.katy2001@yandex.ru)

ORCID: 0009-0003-1931-2565

Olga A. Sergadeeva

E-mail: [o.sergadeeva@mail.ru](mailto:o.sergadeeva@mail.ru)

ResearcherID: KHU-6916-2024

ORCID: 0009-0000-6877-1424

**Abstract.** Beetles form an important insect group in terrestrial ecosystems throughout the world. The paper presents new data on the beetle fauna of the Voroninsky Nature Reserve (Tambov Oblast, Russia). The data were obtained from the materials of 2021–2023 expeditions. The specimens were collected with an insect sweep net and an interception trap. In total, 73 species of Coleoptera from 25 families were recorded for the Voroninsky Nature Reserve for the first time, including the alien species *Oryzaephilus surinamensis* (Linnaeus, 1758). The results of the study are hugely important for inventory as well as monitoring of biodiversity at the Voroninsky Nature Reserve.

**Copyright:** © The Authors (2024).  
Published by Herzen State Pedagogical University of Russia. Open access under CC BY-NC License 4.0.

**Keywords:** beetles, new finds, Voroninsky Nature Reserve, protected natural areas, Tambov Region, European part of Russia

# Новые данные по фауне жесткокрылых (Insecta: Coleoptera) заповедника «Воронинский»

А. Н. Володченко<sup>1</sup>✉, И. А. Забалуев<sup>2</sup>, Е. С. Сергеева<sup>1</sup>, О. А. Сергадеева<sup>1</sup>

<sup>1</sup> Балашовский институт (филиал) Саратовского национального исследовательского государственного университета им. Н. Г. Чернышевского, ул. Карла Маркса, д. 129, 412309, г. Балашов, Россия

<sup>2</sup> Зоологический музей Московского государственного университета им. М. В. Ломоносова, Большая Никитская ул., д. 2, 125009, г. Москва, Россия

## Сведения об авторах

Володченко Алексей Николаевич

E-mail: [kimixla@mail.ru](mailto:kimixla@mail.ru)

SPIN-код: 8076-3584

Scopus Author ID: 57193747186

ResearcherID: D-8140-2013

ORCID: 0000-0003-3742-4352

Забалуев Илья Андреевич

E-mail: [fatsiccor66@mail.ru](mailto:fatsiccor66@mail.ru)

SPIN-код: 8543-4205

Scopus Author ID: 57216040083

ResearcherID: ACZ-2176-2022

ORCID: 0000-0002-1558-5502

Сергеева Екатерина Сергеевна

E-mail: [st.katy2001@yandex.ru](mailto:st.katy2001@yandex.ru)

ORCID: 0009-0003-1931-2565

Сергадеева Ольга Алексеевна

E-mail: [o.sergadeeva@mail.ru](mailto:o.sergadeeva@mail.ru)

ResearcherID: KHU-6916-2024

ORCID: 0009-0000-6877-1424

**Права:** © Авторы (2024). Опубликовано Российским государственным педагогическим университетом им. А. И. Герцена. Открытый доступ на условиях лицензии CC BY-NC 4.0.

## Introduction

The Voroninsky Nature Reserve is located in the southeast of the Tambov Oblast, Russia. In 1994, it obtained the status of a protected area for biodiversity conservation and wildlife restoration. The reserve consists of two large clusters and several small sites. The main part of the reserve are forests and wetland landscapes confined to the valley of the Vorona River.

Coleoptera are the largest order of insects. They participate in a variety of ecological processes in ecosystems. Studying the beetle diversity and their ecological associations makes a significant contribution to understanding overall habitat conservation and species diversity.

This paper continues the work on the inventory of the beetle fauna in the Voroninsky Nature Reserve carried out both with the participation

**Аннотация.** Жуки являются важной группой насекомых в наземных экосистемах по всему миру. В статье приведены новые данные по фауне жесткокрылых природного заповедника «Воронинский» (Россия, Тамбовская область). Данные для работы получены в ходе обработки материалов экспедиций 2021–2023 гг. Жуков собирали кощением энтомологическим сачком и перехватывающими ловушками. Впервые для заповедника указывается 73 вида жесткокрылых из 25 семейств, включая чужеродный вид *Oryzaephilus surinamensis* (Linnaeus, 1758). Результаты исследования имеют большое значение для инвентаризации и мониторинга биоразнообразия Воронинского заповедника.

**Ключевые слова:** жуки, новые находки, природный заповедник «Воронинский», охраняемые природные территории, Тамбовская область, европейская часть России

of the authors (Kol'dyushova et al. 2018; Volodchenko et al. 2018; 2021; Sazhnev et al. 2019; Volodchenko 2019; 2020; Sergadeeva, Ignatenko 2022; Volodchenko, Seleznev 2022; Sergeeva 2022; 2023a; 2023b) and other researchers (Petrova 2015; Vasilchenko 2016a; 2016b; Sazhnev, Aksenenko 2018).

## Material and methods

The article is based on the materials collected during field work in 2021–2023. The beetles were mainly collected on isolated clusters of the reserve, which were poorly covered by earlier studies. An entomological net and interception traps were used as the two major methods of collection (Volodchenko, Seleznev 2022; Volodchenko, Sazhnev 2023). Below are the geographical coordinates of the collection points:

**Balykley** — Inzhavinsky district, 1.5 west village Balykley , 52°18'59"N, 42°31'50"E;

**Karay-Saltykovo** — Inzhavinsky district, village Karay-Saltykovo, 52°21'57"N, 42°36'16"E;

**Inzhavino** — 1 km east urban village Inzhavino, 52°19'46"N, 42°30'30"E;

**Nikitino** — Inzhavinsky district, village Nikitino, 52°26'1"N, 42°27'16"E;

**Ol'khovka** — Inzhavinsky district, village Ol'khovka, 52°26'60"N, 42°32'31"E;

**Parevka** — Inzhavinsky district, 1 km northeast village Parevka, 52°26'57"N, 42°35'15"E;

**Derben'** — 4 km southwest village Derben', 52°30'43"N, 42°38'55"E.

Most of Curculionidae were identified by the second author, the rest of the material was identified by the first author. The determination of individual species of Eucnemidae was confirmed by A. V. Kovalev of the All-Russian Institute of Plant Protection, Saint Petersburg.

The taxonomy used in the work is given according to The Catalogue of Palaearctic Coleoptera (Löbl, Smetana 2007; 2010; 2020; Löbl, Löbl 2015; 2016; Alonso-Zarazaga et al. 2023).

## Results

### Histeridae

**Teretrius (Teretrius) fabricii** (Mazur, 1972)

**Material.** Derben', deciduous forest, interception trap on *Quercus robur* L., 18.06.2021 — 1 ex.

**Plegaderus (Plegaderus) caesus** (Herbst, 1791)

**Material.** Derben', deciduous forest, interception trap on *Quercus robur*, 18.06.2021 — 2 ex.

**Atholus bimaculatus** (Linnaeus, 1758)

**Material.** Derben', floodplain meadow, sweeping, 18.06.2021 — 1 ex.

### Leiodidae

**Sciodrepoides watsoni** (Spence, 1813)

**Material.** Ol'khovka, deciduous forest, interception trap on *Populus tremula* L., 18.06.2021 — 1 ex.

**Agathidium seminulum** (Linnaeus, 1758)

**Material.** Nikitino, deciduous forest, interception trap on *Quercus robur*, 18.06.2021 — 1 ex.

### Buprestidae

**Chalcophora mariana** (Linnaeus, 1758)

**Material.** Inzhavino, pine forest, interception trap on *Pinus sylvestris* L., 18.06.2021 — 1 ex.

**Anthaxia (Anthaxia) senicula** (Schrank, 1789)

**Material.** Nikitino, edge of deciduous forest, sweeping, 20.07.2021 — 1 ex.

**Trachypterus picta** (Pallas, 1773)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

**Agrilus (Convexagrilus) convexicollis**

L. Redtenbacher, 1847

**Material.** Ol'khovka, deciduous forest, interception trap on *Fraxinus excelsior* L., 20.07.2021 — 1 ex.

**Trachys fragariae** Brisout de Barneville, 1874

**Material.** Derben', meadow, sweeping, 25.05.2021 — 1 ex.

### Eucnemidae

**Dirrhagofarsus attenuatus** (Mäklin, 1845)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 3 ex.

**Nematodes filum** (Fabricius, 1801)

**Material.** Ol'khovka, oak forest, interception trap on *Quercus robur*, 20.07.2021 — 2 ex.

### Elateridae

**Synaptus filiformis** (Fabricius, 1781)

**Material.** Nikitino, edge of deciduous forest, sweeping, 25.05.2021 — 1 ex.

**Ampedus (Ampedus) pomonae** (Stephens, 1830)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

**Hemicrepidius (Hemicrepidius) hirtus** (Herbst, 1784)

**Material.** Inzhavino, edge of deciduous forest, sweeping, 18.06.2021 — 1 ex.

### Lycidae

**Dictyoptera aurora** (Herbst, 1784)

**Material.** Derben', deciduous forest, interception trap on *Acer platanoides* L., 8.05–17.06.2023 — 1 ex.

### Cantharidae

**Cantharis (Cyrtomoptila) lateralis** Linnaeus, 1758

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 1 ex.

### Dermestidae

**Anthrenus (Nathrenus) verbasci** (Linnaeus, 1767)

**Material.** Inzhavino, meadow, sweeping, 18.06.2021 — 1 ex.

**Globicornis (Hadrotoma) emarginata** (Gyllenhal, 1808)

**Material.** Derben', deciduous forest, interception trap on *Quercus robur*, 07.04–8.05.2023 — 1 ex.; 8.05–17.06.2023 — 2 ex.

**Megatoma (Megatoma) undata** (Linnaeus, 1758)

**Material.** Derben', meadow, sweeping, 25.05.2021 — 1 ex.

### Ptinidae

**Dorcatoma (Dorcatoma) robusta** A. Strand, 1938

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

**Dorcatoma (Pilosodorcatoma) chrysomelina** Sturm, 1837

**Material.** Parevka, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

### Trogossitidae

**Peltis grossa** (Linnaeus, 1758)

**Material.** Nikitino, oak forest, interception trap on *Quercus robur*, 25.05.2021 — 1 ex.

### Cleridae

**Thanasimus femoralis** (Zetterstedt, 1828)

**Material.** Derben', deciduous forest, interception trap on *Pinus sylvestris*, 07.04–8.05.2023 — 1 ex.

**Necrobia violacea** (Linnaeus, 1758)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

**Korynetes caeruleus** (De Geer, 1775)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 20.07.2021 — 1 ex.

### Dasytidae

**Aplocnemus (Aplocnemus) impressus** (Marsham, 1802)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 20.07.2021 — 1 ex.

### Malachiidae

**Anthocomus (Anthocomus) rufus** (Herbst, 1784)

**Material.** Karay-Saltykovo, floodplain meadow, sweeping, 18.06.2021 — 1 ex.; Derben', floodplain meadow, sweeping, 25.05.2021 — 1 ex.

### Nitidulidae

**Epuraea (Epuraea) biguttata** (Thunberg, 1784)

**Material.** Nikitino, deciduous forest, interception trap on *Populus tremula*, 25.05.2021 — 1 ex.

**Amphotis marginata** (Fabricius, 1781)

**Material.** Nikitino, deciduous forest, interception trap on *Populus tremula*, 25.05.2021 — 1 ex.

**Thalycra fervida** (Olivier, 1790)

**Material.** Parevka, deciduous forest, interception trap on *Populus tremula*, 25.05.2021 — 1 ex.

### Monotomidae

**Monotoma conicicollis** (Chevrolat, 1837)

**Material.** Derben', deciduous forest, interception trap on *Acer platanoides*, 8.05–17.06.2023 — 1 ex.

### Silvanidae

**Oryzaephilus surinamensis** (Linnaeus, 1758)

**Material.** Nikitino, meadow, sweeping, 17.06.2023 — 1 ex.

### Laemophloeidae

**Placonotus testaceus** (Fabricius, 1787)

**Material.** Parevka, deciduous forest, interception trap on *Populus tremula*, 20.07.2021 — 1 ex.

### Phalacridae

**Olibrus millefolii** (Paykull, 1800)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 1 ex.

**Phalacrus championi** Guillebeau, 1892

**Material.** Karay-Saltykovo, meadow, sweeping, 18.06.2021 — 1 ex.

### Endomychidae

**Endomychus coccineus** (Linnaeus, 1758)

**Material.** Nikitino, deciduous forest, interception trap on *Populus tremula*, 17.06.2021 — 1 ex.

### Melandryidae

**Orchesia (Clinocara) fasciata** (Illiger, 1798)

**Material.** Nikitino, deciduous forest, interception trap on *Populus tremula*, 18.06.2021 — 1 ex.

**Osphya bipunctata** (Fabricius, 1775)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 25.05.2021 — 1 ex.

### Tenebrionidae

*Diaclina testudinea* (Piller & Mitterpacher, 1783)

**Material.** Inzhavino, deciduous forest, interception trap on *Populus tremula*, 20.07.2021 — 1 ex.

*Neomida haemorrhoidalis* (Fabricius, 1787)

**Material.** Nikitino, deciduous forest, interception trap on *Populus tremula*, 25.05.2021 — 1 ex.

### Anthicidae

*Anthicus flavipes* (Panzer, 1796)

**Material.** Nikitino, meadow, sweeping, 18.06.2021 — 1 ex.

### Cerambycidae

*Asemum striatum* (Linnaeus, 1758)

**Material.** Inzhavino, pine forest, interception trap on *Pinus sylvestris*, 20.07.2021 — 2 ex.

*Phytoecia (Phytoecia) pustulata* (Schrank, 1776)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 2 ex.

### Chrysomelidae

*Oulema melanopus* (Linnaeus, 1758)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 6 ex.

*Cassida nobilis* Linnaeus, 1758

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 2 ex.

*Derocrepis rufipes* (Linnaeus, 1758)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 11 ex.

*Neocrepidodera femorata* (Gyllenhal, 1813)

**Material.** Nikitino, meadow, sweeping, 18.06.2021 — 5 ex.

*Smaragdina xanthaspis* (Germar, 1823)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 3 ex.

### Attelabidae

*Bytiscus populi* (Linnaeus, 1758)

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 3 ex.

*Rhynchites (Rhynchites) bacchus* (Linnaeus, 1758)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 2 ex.; Nikitino, meadow, sweeping, 18.06.2021 — 1 ex.

*Tatianaerhynchites aequatus* (Linnaeus, 1767)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 2 ex.

### Brentidae

*Ceratapion (Acanephodus) onopordi* (Kirby, 1808)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 3 ex.

*Exapion elongatum* (Desbrochers des Loges, 1891)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 2 ex.

*Eutrichapion (Eutrichapion) viciae* (Paykull, 1800)

**Material.** Balykley, meadow, sweeping, 18.06.2021 — 2 ex.

*Oxystoma cerdo* (Gerstaecker, 1854)

**Material.** Derben', meadow, sweeping, 8.05.2023 — 1 ex.

### Curculionidae

*Tanysphyrus lemnae* (Paykull, 1792)

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex. Det. I. A. Zabaluev.

*Labiaticola atricolor* (Boheman, 1844)

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex.

*Amalus scortillum* (Herbst, 1795)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 2 ex. Det. I. A. Zabaluev.

*Glocianus punctiger* (C.R. Sahlberg, 1835)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 2 ex.; Derben', floodplain meadow, sweeping, 26.05.2021 — 1 ex. Det. I. A. Zabaluev.

*Micropontus edentulus* (Schultze, 1897)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 1 ex.

*Micropontus triangulum* (Boheman, 1845)

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex. Det. I. A. Zabaluev.

*Nedyus quadrimaculatus* (Linnaeus, 1758)

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex. Det. I. A. Zabaluev.

*Thamiocolus virgatus* (Gyllenhal, 1837)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 3 ex. Det. I. A. Zabaluev.

*Pelenomus waltoni* (Boheman, 1843)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 1 ex.

*Rhinoncus leucostigma* (Marsham, 1802)

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 2 ex. Det. I. A. Zabaluev.

***Tychius (Tychius) crassirostris* Kirsch, 1871**

**Material.** Nikitino, meadow, sweeping, 25.05.2021 — 3 ex. Det. I. A. Zabaluev.

***Phyllobius (Metaphyllobius) jacobsoni* Smirnov, 1913**

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex.

***Sciaphilus asperatus* (Bonsdorff, 1785)**

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 4 ex. Det. I. A. Zabaluev.

***Sciaphobus (Neosciaphobus) ningnidus* (Germar, 1823)**

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 7 ex. Det. I. A. Zabaluev.

***Hypera (Kippenbergia) arator* (Linnaeus, 1758)**

**Material.** Balykley, floodplain meadow, sweeping, 18.06.2021 — 1 ex.; Nikitino, meadow, sweeping, 18.06.2021 — 1 ex. Det. I. A. Zabaluev.

***Larinus (Phytonomeus) iaceae* (Fabricius, 1775)**

**Material.** Derben', floodplain meadow, sweeping, 24.05.2021 — 1 ex.

***Larinus (Phytonomeus) planus* (Fabricius, 1792)**

**Material.** Nikitino, meadow, sweeping, 18.06.2021 — 1 ex.

***Magdalais (Edo) ruficornis* (Linnaeus, 1758)**

**Material.** Inzhavino, edge of deciduous forest, sweeping, 25.05.2021 — 1 ex.

***Magdalais (Magdalais) duplicata* (Germar, 1819)**

**Material.** Inzhavino, pine forest, interception trap on *Pinus sylvestris*, 18.06.2021 — 1 ex.

## Discussion

Thus, the beetle fauna of the Voroninsky Nature Reserve has been supplemented with 73 species. Taking into account the new data, the Coleoptera fauna of the Voroninsky Nature Reserve boasts 1,046 species. Widespread in the European part of Russia (Orlova-Bienkowskaja 2019), *Oryzaephilus surinamensis* (Linnaeus, 1758), an alien species from the family Silvanidae, was recorded in the reserve for the first time. This is the ninth alien species recorded here (Sergeeva 2023b).

## Acknowledgements

The authors would like to thank A. V. Kovalev of All-Russian Institute of Plant Protection of RAS, Saint Petersburg, for his assistance in confirming the species identification. The author would like to thank O. A. Burukanova, Director of the Voroninsky Nature Reserve, and the reserve staff for their assistance in organizing the research.

## Благодарности

Авторы признательны за помощь в подтверждении определения А. В. Ковалеву (Санкт-Петербург, ВИЗР). Автор благодарит директора заповедника О. А. Буруканову и сотрудников за помощь в организации исследований.

## References

- Alonso-Zarazaga, M. A., Barrios, H., Borovec, R. et al. (2023) *Cooperative Catalogue of Palaearctic Coleoptera Curculionoidea. Part 1: Introduction and catalogue. Work version 3.2.* [Online]. Available at: <https://weevil.myspecies.info/sites/weevil.info/files/CCPCC%20part%201%20Work%20Version%203.2.pdf> (accessed 09.04.2024). (In English)
- Kol'dyushova, I. A., Pavlova, A. A., Volodchenko, A. N. (2018) O faune koroedov (Coleoptera: Curculionidae: Scolytinae) gosudarstvennogo prirodnogo zapovednika "Voroninskij" [About bark beetle fauna (Coleoptera: Curculionidae: Scolytinae) state natural reserve "Voroninsky"]. In: D. L. Musolin, A. V. Selikhovkin (eds.). *X Chteniya pamyati O. A. Kataeva. Dendrobiontnye bespozvonochnye zhivotnye i griby i ikh rol' v lesnykh ekosistemakh. T. 1. Nasekomye i prochie bespozvonochnye zhivotnye. Materialy mezhdunarodnoj konferentsii [The Kataev memorial readings — X. Dendrobiotic invertebrates and fungi and their role in forest ecosystems. Vol. 1. Insects and other invertebrates. Proceedings of the international conference]*. Saint Petersburg: Saint Petersburg State Forest Technical University Publ., p. 51. (In Russian)
- Löbl, I., Löbl, D. (eds.). (2015) *Catalogue of Palaearctic Coleoptera. Vol. 2/1.* Leiden; Boston: Brill Publ., 1702 p. (In English)
- Löbl, I., Löbl, D. (eds.). (2016) *Catalogue of Palaearctic Coleoptera. Vol. 3. Scarabaeoidea — Scirtoidea — Dascilloidea — Buprestoidea — Byrrhoidea.* Leiden; Boston: Brill Publ., 984 p. (In English)
- Löbl, I., Smetana, A. (eds.). (2007) *Catalogue of Palaearctic Coleoptera. Vol. 4. Elateroidea — Derodontoiidea — Bostrichoidea — Lymexyloidea — Cleroidea — Cucujoidea.* Stenstrup: Apollo Books Publ., 935 p. (In English)

- Löbl, I., Smetana, A. (eds.). (2010) *Catalogue of Palaearctic Coleoptera. Vol. 6. Chrysomelidae*. Stenstrup: Apollo Books Publ., 924 p. (In English)
- Löbl, I., Smetana, A. (eds.). (2020) *Catalogue of Palaearctic Coleoptera. Vol. 5. Tenebrionoidea*. Stenstrup: Apollo Books Publ., 935 p. (In English)
- Orlova-Bienkowskaja, M. J. (comp.). (2019) *Spravochnik po chuzherodnym zhestkokrylym evropejskoj chasti Rossii [Inventory on alien beetles of European Russia]*. Livny: Mukhametov G. V. Publ., 882 p. (Chuzherodnye vidy Rossii [Alien species of Russia]). (In Russian)
- Petrova, V. P. (2015) Biotopicheskoe raspredelenie zhukov myagkotelok roda *Cantharis* pojmenykh lugov Voroninskogo zapovednika [Biotopic distribution of soft beetles of the genus *Cantharis* in floodplain meadows of the Voroninsky Reserve]. In: A. N. Volodchenko (ed.). *Bioraznoobrazie i antropogennaya transformatsiya prirodnykh ekosistem: materialy Vserossijskoj nauchno-prakticheskoy konferentsii, posvyashchennoj pamjati professora A. I. Zolotukhina [Biodiversity and anthropogenic transformation of natural ecosystems: Proceedings of the All-Russian scientific and practical conference dedicated to the memory of Professor A. I. Zolotukhin]*. Saratov: Saratovskij istochnik Publ., pp. 202–205. (In Russian)
- Sazhnev, A. S., Aksenenko, E. V. (2018) Novye nakhodki Coccinellidae (Insecta: Coleoptera) dlya Tambovskoj, Lipetskoy i Orlovskoj oblastej [New records of Coccinellidae (Insecta: Coleoptera) for Tambov, Lipetsk and Oryol provinces]. In: V. V. Anikin (ed.). *Entomologicheskie i parazitologicheskie issledovaniya v Povolzhe: sbornik nauchnykh trudov [Entomological and parasitological investigations in Volga Region: Collection of scientific papers]*. Iss. 15. Saratov: Saratov State University Publ., pp. 34–37. (In Russian)
- Sazhnev, A. S., Volodchenko, A. N., Trushov, D. A. (2019) Dopolneniya k faune zhestkokrylykh (Coleoptera) gosudarstvennogo prirodного zapovednika "Voroninskij" (Tambovskaya oblast'). Soobshchenie 2 [Additions to the fauna of beetles (Coleoptera) of the state nature reserve "Voroninskiy" (Tambov Province). Report 2]. *Eversmanniya. Entomologicheskie issledovaniya v Rossii i sosednikh regionakh — Eversmannia*, no. 59-60, pp. 40–45. (In Russian)
- Sergadeeva, O. A., Ignatenko, K. A. (2022) K izucheniyu zhestkokrylykh zalivnykh lugov zapovednika "Voroninskij" [To the study of coleoptera flood meadows of the Voroninsky reserve]. In: *Nauchnye trudy Natsional'nogo parka "Khvalynskij": sbornik nauchnykh statej [Scientific papers of Khvalynsky National Park: Compilation of scientific papers]*. Vol. 15. Saratov; Khvalynsk: Amirit Publ., pp. 223–227. (In Russian)
- Sergeeva, E. S. (2022) K izucheniyu raznoobraziya khortobiontykh zhestkokrylykh ostepennnykh ekosistem prirodного zapovednika "Voroninskij" [To the study of the diversity of hortobiont beetles steppe ecosystems of the natural reserve "Voroninsky"]. In: A. N. Volodchenko (ed.). *Bioraznoobrazie i antropogennaya transformatsiya prirodnykh ekosistem: materialy X Vserossijskoj nauchno-prakticheskoy konferentsii [Biodiversity and anthropogenic transformation of natural ecosystems: Materials X All-Russian scientific and practical conference]*. Saratov: Saratovskij istochnik Publ., pp. 114–118. (In Russian)
- Sergeeva, E. S. (2023a) Materialy k faune koktsinellid (Coleoptera: Coccinellidae) zapovednika "Voroninskij" [Materials on the fauna of coccinellids (Coleoptera: Coccinellidae) of the Voroninsky Nature Reserve]. In: *Kachestvennoe ekologicheskoe obrazovanie i innovatsionnaya deyatel'nost' — osnova progressa i ustojchivogo razvitiya: sbornik statej VI mezhunarodnoj nauchno-prakticheskoy konferentsii [High-quality environmental education and innovative activities are the basis of progress and sustainable development": Collection of articles of the VI International scientific and practical conference]*. Saratov: Vavilovskij universitet Publ., pp. 114–119. (In Russian)
- Sergeeva, E. S. (2023b) Chuzherodnye vidy zhestkokrylykh gosudarstvennogo zapovednika "Voroninskij" [Alien species of Coleoptera in the Voroninsky state reserve]. In: *Ekologicheskie chteniya — 2023. Materialy XIV Natsional'noj nauchno-prakticheskoy konferentsii (s mezhunarodnym uchastiem) [Ecological readings — 2023. Materials of the XIV National scientific and practical conference (with international participation)]*. Omsk: Omsk State Agrarian University Publ., pp. 502–506. (In Russian)
- Vasilchenko, T. V. (2016a) K izucheniyu struktury naseleniya zhestkokrylykh opushechnykh soobshchestv zapovednika "Voroninskij" [To the study of the structure of beetles of edge forest communities in the Voroninsky reserve]. In: N. A. Leonova (ed.). *Sovremennye kontseptsii ekologii biosistem i ikh rol' v reshenii problem sokhraneniya prirody i prirodopol'zovaniya: materialy Vserossijskoj (s mezhunarodnym uchastiem) nauchnoj shkoly-konferentsii, posvyashchennoj 115-letiyu so dnya rozhdeniya A. A. Uranova [Modern concepts of ecology of biosystems and their role in solving problems of nature conservation and environmental management: Materials of the All-Russian (with international participation) scientific school-conference dedicated to the 115<sup>th</sup> anniversary of the birth of A. A. Uranova]*. Penza: Penza State University Publ., pp. 219–221. (In Russian)

- Vasilchenko, T. V. (2016b) K poznaniyu troficheskikh svyazej antofil'nykh nasekomykh psammofitnykh uchastkov gosudarstvennogo zapovednika "Voroninskij" [To the knowledge of trophic relationships of anthophilic insects of psammophytic sites of the state reserve "Voroninsky"]. In: *Nauchnye trudy Natsional'nogo parka "Khvalynskij": materialy III Vserossijskoj nauchno-prakticheskoy konferentsii s mezhdunarodnym uchastiem "Osobo okhranyaemye prirodnye territorii: proshloe, nastoyashchee, budushchee"* [Scientific works of the Khvalynsky National Park: Materials of the III All-Russian scientific and practical conference with international participation "Specially protected natural areas: Past, present, future"]. Iss. 8. Saratov; Khvalynsk: Amirit Publ., pp. 164–166. (In Russian)
- Volodchenko, A. N. (2019) Novye nakhodki ksilofil'nykh zhestkokrylykh (Coleoptera) v prirodnom zapovednike "Voroninskij" [New records of xylophilous beetles (Coleoptera) from Voroninsky Nature Reserve, Tambovskaya Oblast, Russia]. *Evraziatskij entomologicheskij zhurnal — Euroasian Entomological Journal*, vol. 18, no. 3, pp. 177–181. <https://www.doi.org/10.15298/euroasentj.18.3.05> (In Russian)
- Volodchenko, A. N. (2020) Dopolneniya k faune ksilofil'nykh zhestkokrylykh (Coleoptera) prirodного заповедника "Voroninskij" [Notes on the fauna of xylophilous beetles (Coleoptera) of Voroninsky Nature Reserve, Tambovskaya Oblast, Russia]. *Evraziatskij entomologicheskij zhurnal — Euroasian Entomological Journal*, vol. 19, no. 3, pp. 164–170. <https://www.doi.org/10.15298/euroasentj.19.3.11> (In Russian)
- Volodchenko, A. N., Sazhnev, A. S. (2023) Novye nakhodki ksilofil'nykh zhestkokrylykh (Insecta: Coleoptera) dlya Saratovskoj oblasti [New records of beetles (Insecta: Coleoptera) for the Saratov Oblast]. *Amurskij zoologicheskij zhurnal — Amurian Zoological Journal*, vol. 15, no. 2, pp. 469–480. <https://www.doi.org/10.33910/2686-9519-2023-15-2-469-480> (In Russian)
- Volodchenko, A. N., Seleznev, D. G. (2022) Communities of saproxylic beetles of silver birch (*Betula pendula* Roth.) in the Voroninsky Nature Reserve. *Contemporary Problems of Ecology*, vol. 15, no. 1, pp. 71–82. (In English)
- Volodchenko, A. N., Sazhnev, A. S., Udodenko, Yu. G. (2018) Dopolneniya k faune zhestkokrylykh (Coleoptera) gosudarstvennogo prirodного zapovednika "Voroninskij" (Tambovskaya oblast') [Additions to the fauna of beetles (Coleoptera) of the state nature reserve "Voroninskiy" (Tambov Province)]. *Eversmanniya. Entomologicheskie issledovaniya v Rossii i sosednikh regionakh — Eversmannia*, no. 53, pp. 10–15. (In Russian)
- Volodchenko, A. N., Sazhnev, A. S., Zabaluev, I. A. (2021) Dopolnenie k faune zhestkokrylykh (Coleoptera) prirodного заповедника "Voroninskij", Tambovskaya oblast', Rossiya. Soobshchenie 3 [Additions to the fauna of beetles (Coleoptera) of Voroninsky Nature Reserve, Tambovskaya Oblast, Russia. Report 3]. *Evraziatskij entomologicheskij zhurnal — Euroasian Entomological Journal*, vol. 20, no. 2, pp. 106–112. <https://www.doi.org/10.15298/euroasentj.20.2.07> (In Russian)

**For citation:** Volodchenko, A. N., Zabaluev, I. A., Sergeeva, E. S., Sergadeeva, O. A. (2024) New data on the fauna of Coleoptera (Insecta: Coleoptera) of the Voroninsky Nature Reserve. *Amurian Zoological Journal*, vol. XVI, no. 3, pp. 813–820. <https://www.doi.org/10.33910/2686-9519-2024-16-3-813-820>

**Received** 25 April 2024; reviewed 3 June 2024; accepted 16 June 2024.

**Для цитирования:** Володченко, А. Н., Забалуев, И. А., Сергеева, Е. С., Сергадеева, О. А. (2024) Новые данные по фауне жестокрылых (Insecta: Coleoptera) заповедника «Воронинский». *Амурский зоологический журнал*, т. XVI, № 3, с. 813–820. <https://www.doi.org/10.33910/2686-9519-2024-16-3-813-820>

**Получена** 25 апреля 2024; прошла рецензирование 3 июня 2024; принятa 16 июня 2024.