

First record of invasive *Otiorhynchus sulcatus* (Fabricius, 1775) (Coleoptera, Curculionidae) from the Russian Far East

Первая находка инвазионного вида *Otiorhynchus sulcatus* (Fabricius, 1775) (Coleoptera, Curculionidae) на Дальнем Востоке России

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Ключевые слова: Curculionoidea, Entiminae, Otiorhynchini, скосарь одиночный, новая находка, Кунашир.

Abstract. *Otiorhynchus sulcatus* (Fabricius, 1775) of the tribe Otiorhynchini (Curculionidae: Entiminae) is recorded for the first time for the Russian Far East from the Kunashir Island. There have been suggestions that this species may be an introduction from Hokkaido Island.

Резюме. В статье для Дальнего Востока России приводится первая находка *Otiorhynchus sulcatus* (Fabricius, 1775) из трибы Otiorhynchini (Curculionidae: Entiminae) с острова Кунашир. Предположительно этот вид был завезён с острова Хоккайдо.

Introduction

The genus *Otiorhynchus* Germar, 1822 is the largest genus of the superfamily Curculionoidea and contains more than 1500 species from more than 100 subgenera [Davidian, Savitsky, 2005]. The centres of diversity are in the mountains of southern Europe, the Caucasus and Asia Minor [Alonso-Zarazaga et al., 2023]. Representatives of the genus are widespread in the Palearctic [Alonso-Zarazaga, Lyal, 1999]; the North European *Otiorhynchus* (*Phalantorrhynchus*) *arcticus* (Fabricius, 1780) is also found in Greenland [O'Brien, Wibmer, 1982]. Some species have been introduced to North America, Chile, Juan Fernandez Island, Hawaii, Saint Helena, Madagascar, New Zealand [Alonso-Zarazaga, Lyal, 1999]. In the Asian part of Russia, about 50 species of *Otiorhynchus* have been found, the vast majority of which live south of 56°N [Legalov, 2010, 2020b, c;

2021a-c]. Most Siberian species do not reach Eastern Siberia, a few species are found in Buryatia, the boreal *Otiorhynchus politus* Gyllenhal, 1834 and the steppe *O. cribrosicollis* Boheman, 1842 reach Yakutia [Legalov, 2020b]. The South Siberian *O. grandineus* Germar, 1823 has been recorded for Primorskii Krai [Egorov, 1979], but it is clearly an introduced species. *Otiorhynchus ovatus* (Linnaeus, 1758) has been found in the southern Russian Far East (Sakhalin) [Egorov, Basarukina, 1981], but its range is associated with humans. The Russian Far East, including the Kuril Islands, is not a part of the native range of the genus *Otiorhynchus* [Legalov, 2020b].

This paper presents the first registration of *Otiorhynchus sulcatus* (Fabricius, 1775) in Asian part of Russia.

Materials and methods

The studied specimen is deposited in the Institute of Systematics and Ecology of Animals, Novosibirsk, Russia. Several specimens of this species were observed and photographed at the same locality in daytime 30.VIII.2024 by S.Yu. Stefanov (<https://www.inaturalist.org/observations/239134906>).

The systematics of the studied taxa based on Legalov [2020a] and Alonso-Zarazaga et al. [2023].

The present work is registered in ZooBank (www.zoobank.org) under LSID urn:lsid:zoobank.org:pub:2BF88477-0A49-4FF8-AD32-3580DEF45E2A

Results

Curculionoidea: **Curculionidae**: Entiminae:

Otiorhynchitae: Otiorhynchini

Otiorhynchus Germar, 1822

Otiorhynchus (Dorymerus) sulcatus (Fabricius, 1775)

Fig. 1.

Otiorhynchus (Dorymerus) sulcatus (Fabricius, 1775): =*Curculio griseopunctatus* DeGeer, 1775; =*Curculio stritos* Gmelin, 1790; =*Otiorhynchus sayi* Boheman, 1842; =*Otiorhynchus linearis* Stierlin, 1861; =*Otiorhynchus pseudolinearis* Reitter, 1914.

Material. Russia, *Sakhalinskaya Oblast*: Kunashir Island, Yuzhno-Kurilsk, Nature Reserve «Kurilskii» administration section, 40°02'25" N, 145°51'36.5" E, on a house wall at late dark time evening, 28.IX.2024, V.V. Dubatolov.

Distribution. Europe: Albania, Austria, Azores, Belgium, Bulgaria, Belarus, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, the Madeira, the Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, and Ukraine [Alonso-Zarazaga et al., 2023]. It was introduced in Egypt, Japan, Malaysia, Réunion, Saint Helena, southern Australia, New Zealand, Canada and USA, and Chile and Argentina [O'Brien, Wibmer, 1982; Alonso-Zarazaga et al., 2023; CABI, 2024].

Remarks. This species is absent in Asian part of Russia, Korea and China [Legalov, 2020b; Alonso-Zarazaga et al., 2023], but is present in Japan (Hokkaidô, Rebun-tô, Rishiri-tô, Okushiri-tô, Honshû, and Kyûshû) [A catalog of all beetle species in the Japanese Archipelag, 2025]. Therefore, we assume that this species was introduced from Hokkaido.

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Fig. 1. External appearance of a female *Otiorhynchus sulcatus*, dorsal view. Scale bar 5.0 mm.

Рис. 1. Внешний вид самки *Otiorhynchus sulcatus*, вид сверху. Масштаб: 5,0 мм.