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NEW RECORDS OF LEAF BEETLES (COLEOPTERA: MEGALOPODIDAE: ZEUGOPHORINAE) FROM RUSSIA

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Summary. Two leaf-beetles species, *Zeugophora nigricollis* (Jacoby, 1885) and *Z. cupka* Takemoto, 2019, are recorded from Russia for the first time. Previous record of *Z. chujoi* from Sakhalin belongs to *Z. cupka* and former must be excluded from list of Russian fauna. Totally, the Russian fauna of subfamily Zeugophorinae (Coleoptera: Chrysomeloidea, Magalopodidae) consists of nine species from the genus *Zeugophora* Kunze, 1818.

Key words: leaf beetles, Chrysomeloidea, *Zeugophora*, fauna, new records, Palearctic, Russian Far East.

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Резюме. Впервые для фауны России приводятся два вида жуков-листоедов: *Zeugophora nigricollis* (Jacoby, 1885) и *Z. cupka* Takemoto, 2019. Указание *Z. chujoi* Ohno, 1961 с Сахалина относится к *Z. cupka*, поэтому этот вид исключен из списка фауны России. Таким образом, в России подсемейство Zeugophorinae (Coleoptera: Chrysomeloidea, Magalopodidae) представлено 9 видами рода *Zeugophora* Kunze, 1818.

INTRODUCTION

The subfamily Zeugophorinae (Coleoptera: Magalopodidae) was known in Russia by eight species from the genus *Zeugophora* Kunze, 1818 (Medvedev, 1992, 2010; Mikhailov & Hayashi 2002; Bieńkowski, 2004; Lopatin et al., 2004; Bieńkowski & Orlova-Bieńkovskaya, 2017; Sergeev, 2020; Legalov & Ivanov, 2022). During examination of the materials from the Federal Scientific Center of the East Asia Terrestrial Biodiversity, Vladivostok, Russia (FSCV), Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia (ZIN), and private collection of A.O. Bieńkowski, Moscow, Russia (cAB), two new species, *Zeugophora nigricollis* (Jacoby, 1885) and *Z. cupka* Takemoto, 2019, have been found from Russia for the first time.

Photographs were taken with the stereomicroscope Olympus SZX16 and digital camera Olympus DP74 and stacked using Helicon Focus software. The final illustrations were post-processed for contrast and brightness using Adobe Photoshop® software.

NEW RECORDS

Family Megalopodidae Latreille, 1802

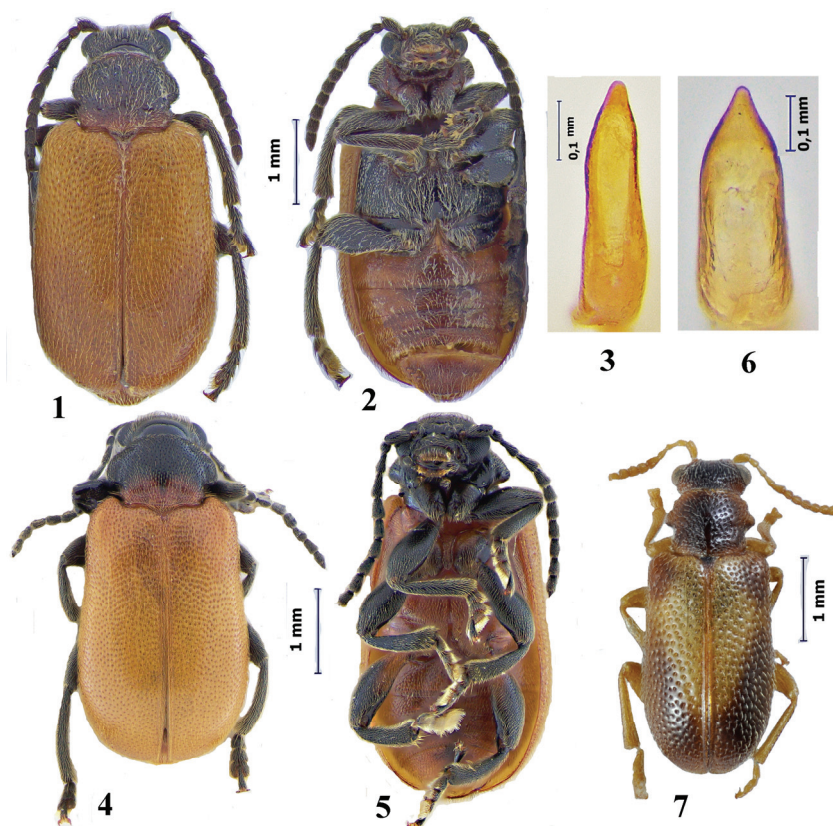
Subfamily Zeugophorinae Boving et Craighead, 1931

Genus *Zeugophora* Kunze, 1818

Zeugophora nigricollis (Jacoby, 1885)

Figs 1–3

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Nikolsk-Ussuriysk, Suifunskaya sopka Mountain, [=Ussuriysk], 19.V 1925, 2 ex., leg. T. Samoilo (FSCV); Voroshilov [=Ussuriysk], 20.V 1931, 4 ex., leg. T. Samoilo (ZIN); Gornotayezhnaya station [20 km SE Ussuriysk], 19.VII 1958, 1 ex., leg. Skripnikov (ZIN); Maykhe River [=Artemovka River in Shkotovo district], 7.VI 1927, 1 ex., collector unknown (ZIN); Peyshula River [= Suvorovka River in Shkotovo district], 7.VI.1950, 1 ex., collector unknown (FSCV); Volno-Nadezhdinskoe [30 km N Vladivostok], 20.V 1950, 1 ex., collector unknown (FSCV); Vladivostok, 1.VI 1963, 1 ex. leg. (Kabakov (cAB)). **Japan:** Honshu, Shinshu, Shirouma-dake Mt., 17.VII 1957, 1 ex., leg. M. Ohno (ZIN).



Figs 1–7. Imago of *Zeugophora* spp. 1–3 – *Z. nigricollis*, male: 1– habitus, dorsal view; 2 – same, ventral view; 3 – aedeagus; 4–6 – *Z. bicolor*, male: 4 – habitus, dorsal view; 5 – same, ventral view; 6 – aedeagus; 7 – *Z. cupka*, female, dorsal view.

REMARKS. This species is similar to *Zeugophora bicolor* (Kraatz, 1879) in habitus (compare Figs 1, 2 with Figs 4, 5) but differs in the shape of the aedeagus (Figs 3, 6).

HOST PLANTS. *Euonymus sieboldiana* Blum., *E. alatus* (Thunb) (Takemoto, 2019; Li & Liang, 2020).

DISTRIBUTION Japan (Hokkaido, Honshu, Shikoku, Kyushu), North and South Korea, China (Ningxia) (Takemoto, 2019), Russia (new record): Primorsky Krai.

***Zeugophora cupka* Takemoto, 2019**

Fig. 7

MATERIAL EXAMINED. **Russia:** Sakhalin Island, 40 km N Yuzhno-Sakhalinsk, vicinity of Dolinsk City, 7.VI 1981, 1 ex., leg. V. Kuznetsov (cAB).

REMARKS. Bieńkowski identified this female as *Zeugophora chujoi* Ohno, 1961 and included it to the list of Russian fauna (Bieńkowski, 2022). Recently this species has been divided in two species: *Z. chujoi* (Japan: Hokkaido, Honshu) and *Z. cupka* Takemoto, 2019 (Japan, Hokkaido) (Takemoto, 2019). The specimen from Sakhalin undoubtedly belongs to *Z. cupka*.

HOST PLANTS. *Populus suaveolens* Fisch. (Takemoto, 2019).

DISTRIBUTION. Japan (Hokkaido) (Takemoto, 2019), Russia (new record): south part of Sakhalin Island.

DISCUSSION

The fauna of the subfamily Zeugophorinae in Russia consists of nine species of the genus *Zeugophora*, of which five species are known from the European part (Bieńkowski, 2004) and seven species are recorded from the Russian Far East. The northernmost records of *Zeugophora* species in the Russian Far East are from Magadan Region, the fauna of which includes two species, *Z. flavicollis* (Marsham, 1802) and *Z. hozumii* Chûjô, 1953 (Matis, 1986; Medvedev, 1992; Takemoto, 2019). There are six species of *Zeugophora* in south part of the Russian Far East including Sakhalin and Kuril Islands, namely: *Z. annulata* (Baly, 1873), *Z. bicolor*, *Z. nigricollis*, *Z. bimaculata* Kraatz, 1879, *Z. cupka*, and *Z. flavicollis* (Medvedev, 1992; Mikhailov & Hayashi, 2002; Bieńkowski & Orlova-Beńkovskaya, 2017; Legalov & Ivanov, 2022). Thus, the species diversity of Zeugophorinae decreases considerably in the northern part of this vast region.

The number of species of Zeugophorinae in the Russian Far East is comparable with Japan, where ten species are known (Takemoto, 2019), while 35 species are known from China (Li & Liang, 2018; Li & Liang, 2020). Therefore, the trend of increasing species diversity from north to south regions of East Asia is obvious.

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