

First record of the flesh fly *Boettcherisca nathani* Lopes, 1961 (Diptera, Sarcophagidae) for the Khabarovskii Krai, Russia

Первое обнаружение мухи саркофагиды *Boettcherisca nathani* Lopes, 1961 (Diptera, Sarcophagidae) в Хабаровском крае России

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Ключевые слова: Diptera, Sarcophagidae, Россия, Хабаровский край, новая находка.

Abstract. *Boettcherisca nathani* Lopes, 1961 is registered from the Khabarovskii Krai for the first time. This is the first record of the species for Russia.

Резюме. Вид *Boettcherisca nathani* Lopes, 1961 впервые обнаружен в Хабаровском крае России.

Sarcophagidae is a large family of flies with nearly 3000 species worldwide. The genus *Boettcherisca* Rohdendorf, 1937 is represented by 17 species, mainly distributed in tropical areas of the Old World. Only 4 species of this genus occur in the Palearctic, they are *Boettcherisca peregrina* (Robineau-Desvoidy, 1830), *B. septemtrionalis* Rohdendorf, 1937, *B. invaria* (Walker, 1859) and *B. nathani* Lopes, 1961 [Verves, 1986; Pape, 1996; Verves, Khrokalo, 2006; Xue et al., 2011; Heo et al., 2015]. The latter species is only known from China (Liaoning) in the Palearctic.

Materials and methods

Flies were collected using traps, yellow plates and nets. The material was identified using binocular microscopes Zeiss Stemi 2000-C and Altami PS0745-T with the help of available literature [Lopes, 1961; Kano, Sugiyama, 1983; Nandi, 2002; Verves, Khrokalo, 2006]. The material presented in this article was collected by the author (except where noted) and is kept in the collection of the Siberian Zoological Museum of the Institute of Systematics and Ecology of Animals SB RAS, Novosibirsk.

The present work is registered in ZooBank (www.zoobank.org) under urn:lsid:zoobank.org:pub:4FDB10F0-4A53-4644-ABFD-F1CB-7343F1E7.

Boettcherisca nathani Lopes, 1961

Figs 1, 4.

Материал. Russia, *Khabarovskii Krai*: Khabarovsk ca., Bychikha village, office of Bolshekhkhtsirskii Reserve, 48°18,62' N, 134°49' E,

h~80 m a.s.l., yellow plates, 24.VIII, 24, 25, 28-30.IX.2019, 29.IX.2020 — 8♂♂, idem, in the house, 24.VIII.2020, V.V. Dubatolov — 1♂, park of sanatorium «Ussuri», 48°18,62' N, 134°49' E, h~74 m a.s.l., hand collection, fall trap, 25.IX.2019, 1–2.X.2020 — 3♂♂, Amurskaya branch, beach, 48°18,62' N, 134°49' E, h~41 m a.s.l., 28.IX.2019 — 2♂♂. **Thailand, Lampang Province:** 30 km SE Lampang City, near Natural Park Wiang Kosui, h~457 m a.s.l., 18,07° N, 99,67° E, 18.VIII.2012 — 1♂.

Distribution. India, Nepal, Pakistan, Indonesia, Malaysia, Thailand, Philippines, China (Liaoning), Russia: Khabarovskii Krai. A new species for the Russian fauna. This species is expected to occur in southern Primorye.

Boettcherisca peregrina (Robineau-Desvoidy, 1830)

Material. India, *N Goa*: Anshwem Beach, h~3 m a.s.l., 15,648° N, 73,716° E, on dead fish, 21.XI.2017 — 1♂. **China, Guangdong Province:** Guangdong, Dinghuashan (Dinghushan), 28.XI.1959, Rohdendorf — 3♂♂. **Thailand, Kho Chang Island:** Chai Chet Cape, h~20–60 m a.s.l., 12,07° N, 102,28° E, 26.XI.2016 — 1♂; Near Klong Son village, Aiyapura Resort and near, h~5–80 m a.s.l., 12°07,17–18' N, 102°15,5–16' E, 25, 28, 29, 31.III, 1–3.IV.2023 — 17♂♂, 5♀♀. **Vietnam, Dong Nai Province:** Cat Tien Reserve, h~148 m a.s.l., 11°46' N, 107°39' E, 1–10.V.2019, A.V. Barkalov — 5♂♂.

Boettcherisca septemtrionalis Rohdendorf, 1937

Material. Russia, *Primorsky Krai*: Ussuriyskiy district, Ussuriyskiy Nature Reserve, 23.VIII.1988, S. Artamonov — 1♂; Shkotovskii district, Ussuriyskiy Nature Reserve, kordon «Peishula», 26–28.VIII.2014, V.K. Zinchenko, V.G. Bezborodov — 10♂♂.

Remarks. *Boettcherisca nathani* differs from other species that occur together by the presence of spines on the cerci that extend dorsally, and by the pointed apex of the apical plate of the paraphallus (Figs 1–6). *B. peregrina* is distinguished from *B. peregrina* by the presence of broad gonites.

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Figs 1–6. Terminalia of *Boettcherisca* Rohdenforf species: *B. nathani* (1, 4), *B. peregrina* (2, 5) and *B. septentrionalis* (3, 6). 1–3 — lateral view; 4–6 — dorsal view. Scale bars 1 mm.

Рис. 1–6. Терминалии видов рода *Boettcherisca* Rohdenforf: *B. nathani* (1, 4), *B. peregrina* (2, 5) и *B. septentrionalis* (3, 6). 1–3 — сбоку; 4–6 — сверху. Масштаб 1 мм.

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