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S. A. Shabalin^{1, 2)}, S. N. Ivanov³⁾. NEW DATA ON THE HIDE BEETLES *Trox mitis* BALTHASAR, 1933 (COLEOPTERA: TROGIDAE). – *Far Eastern Entomologist*. 2016. N 319: 25-28.

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Summary. The published data on *Trox mitis* are summarized. New distribution data of this species in Russia, the photo of male and the illustrations of male genitalia are given.

Key words: Coleoptera, Scarabaeoidea, Trogidae, hide beetles, fauna, Primorskii krai, Russia.

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Резюме. Обобщены опубликованные к настоящему времени данные о *Trox mitis*. Приведены новые сведения о распространении этого вида в России, фотография имаго и рисунки гениталий самца.

There are a little more than 300 species of the hide beetles (Coleoptera, Scarabaeodea: Trogidae) in the world; 62 species are known in Palaearctic region (Pittino, 2006b), and only 9 species are recorded from the Russian Far East.

Trox mitis was described from Ussuriysk by V. Balthasar (1933). Later this species was synonymized with *Trox sabulosus ussuriensis* Balthasar, 1931 (Nikolajev, 1977) and for this reason it was omitted in the key to Far Eastern species of *Trox* (Nikolajev, 1989), while this synonymy was not supported by C. Scholtz (1982). Finally *Trox mitis* was considered as a distinct species separated from *T. ussuriensis* by the sculpture of pronotum and elytra, and by the shape of aedeagus (Pittino, 2006a).

In this paper we summarize all published data on *Trox mitis*, clarify its diagnosis and distribution, and record new locality of this species in Russia. Male genitalia of *Trox mitis* are illustrated for the first time.

RESULTS

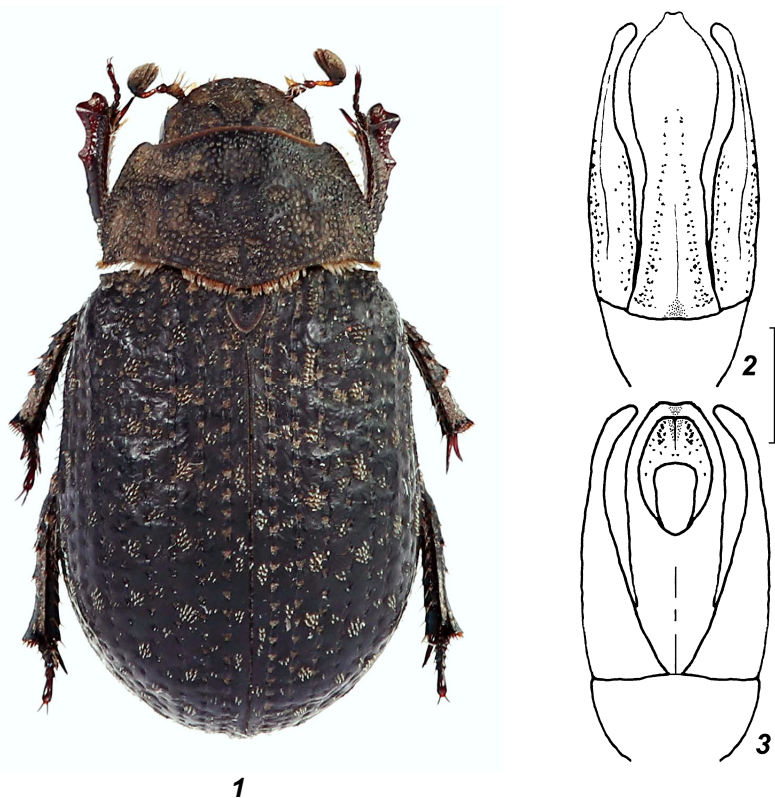
Trox mitis Balthasar, 1933

Trox mitis Balthasar, 1933: 81. Lectotype: "Nikolsk Ussurijsk [= Ussuriysk] / Ussurigeb. Mandl [printed] // Typus [printed, red label, black margin] // *Trox mitis* m. / Typus ! [handwritten] / Det. Dr. Balthasar [p] // *Trox mitis* Balth. / valid species / Lectotypus / Det. Pittino 1985 [handwritten, red label]" in National Museum, Prague, Czech Republic (designated by Pittino, 2006a: 26).

Trox mitis: Takahashi, 1996: 14; Takahashi, 1997: 15; Pittino, 2006a: 26; Pittino, 2006b: 80; Bezděk & Hájek, 2009: 327; Zidek, 2013: 13.

Trox (Trox) mitis: Balthasar, 1936: 456; Scholtz, 1982: 4.

MATERIAL. **Russia:** Primorskii krai, 46 km NW from Ussuriysk, 30.IV 2016, 1 ex., S.N. Ivanov; the same locality, 21.V 2016, 1 male, S.N. Ivanov [IBSS]; the same locality, 05.V 2016, 2 ex., S.N. Ivanov; the same locality, 12.V 2015, 2 ex., S.N. Ivanov [S.N. Ivanov's collection].



Figs. 1–3. *Trox mitis*, male. 1 – body, dorsal view; 2 – genitalia, dorsal view; 3 – the same, lateral view. Scale for figs. 2, 3 = 0.5 mm.

DIAGNOSIS. *Trox mitis* is habitually very similar to *T. ussuriensis* Balthasar, but differ from it by elytral sculpture (even and odd intervals of elytra the same height in former and different height in latter). Male genitalia of *T. mitis* with a deep notch in the apical part of median lobe (Figs. 2, 3), while the median lobe of *T. ussuriensis* with a protrusion.

DISTRIBUTION. Russia (south part of Primorskii krai), China (Heilongjiang, Beijing), South Korea, Japan (Hokkaido, Honshu).

NOTES. Beetles were collected in decomposing woolen cloth and under excrement of carnivores (containing wool) in the sparse oak forest (Fig. 4).

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Fig. 4. The sparse oak forest about 46 km NE from Ussuriysk, the natural habitat of *Trox mitis* in Russia.

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