Redescription of little known Carpenter-Moths species *Eremocossus foedus* (Swinhoe, 1884) (Lepidoptera: Cossidae)

**Переописывание малоизвестного вида древоточцев *Eremocossus foedus* (Swinhoe, 1884) (Lepidoptera: Cossidae)**

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**ABSTRACT.** The article gives a redescription of a little known species, *Eremocossus foedus* (Swinhoe, 1884). For the first time, the description of male genitalia is provided, the detailed description of the external characters is given, the established differential diagnosis allows to distinguish the described species from close species of the genus *Eremocossus* Hampson, 1892.

**РЕЗЮМЕ.** В статье представлено переописание малоизвестного вида древоточцев *Eremocossus foedus* (Swinhoe, 1884). Впервые описаны гениталии самца, дано детальное описание внешних характеристик, приведён дифференциальный диагноз от близких видов рода *Eremocossus* Hampson, 1892.

The genus *Eremocossus* was established by Hampson [1892: 313] for the species *Phragmataecia foeda* Swinhoe, 1884, described from southern Pakistan (Karachi). Swinhoe [1884] erroneously attributed the described species to the genus *Phragmataecia*, belonging to the subfamily Zeuzerinae. Additionally, probably due to a misprint, this species was placed into the family Notodontidae [Swinhoe, 1884: 515]. Later, from the desert regions of the western Palaearctic (from Morocco and southern Spain in the west to Armenia in the east) a series of taxa was described [Staudinger, 1897a, b, 1899; Püngeler, 1899; Lucas, 1907; Le Cerf, 1919; Turati, 1930; Rebel, 1935; Krüger, 1939; Daniel, 1949; Rungs, 1951; de Freina, 1990; Yakovlev, 2008, 2019]. The status of some forms has not been revised. The type species of the genus *Eremocossus* has not been studied morphologically.

Examine the materials deposited in the collections of Natural History Museum (London, Great Britain) and Naturhistorisches Museum (Wien, Austria) we studied the holotype (male) and the topotypes (males) of *E. foedus* (Swinhoe, 1884) [Yakovlev, Witt, 2016]. The male genitalia slides [Lafontaine, 2004] were examined with an Olympus SZX16 microscope. The images were taken with the Olympus SZX16 camera. The genitalia and imago images were processed using Corel Draw software.

To establish the diagnosis, all valid species and subspecies of the genus were examined: *E. vaulogeri blanca* (Daniel, 1949) and *E. nubica* Yakovlev, 2008 (holotype deposited in the Zoologische Staatssammlung der Bayerischen Staaten, Munich, Germany), *E. vaulogeri* (Staudinger, 1897), *E. vaulogeri jordana* (Staudinger, 1897), and *E. asema* (Püngeler, 1899) (cotypes deposited in the Museum für Naturkunde, Leibniz Institut für Evolution und Biodiversitätsforschung, Berlin, Germany), *E. vaulogeri senegalensis* Le Cerf, 1919 and *E. vaulogeri meirleirei* (Rungs, 1951) (holotypes deposited in the Museum National d’Histoire Naturelle, Paris, France), *E. erebuni* Yakovlev, 2008 (holotype deposited in Zoological Institute, St. Petersberg, Russia), and *E. almeriana* (de Freina, 1990) (holotype deposited in Museum Witt, Munich, Germany).

*Eremocossus foedus* (Swinhoe, 1884)  
Figs 1–4.

*Phragmataecia foeda* Swinhoe, 1884: 515.  
Type locality: Kurrachee [Karachi, Southern Pakistan].  
MATERIAL. Holotype, male (slide Coss-255) (Natural History Museum, London, Great Britain); 1 male, Karachi, 14.iv.[19]06, T.R. Bell (individual number NHMUK 012832436; slide 010315469;
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er than antenna rod diameter. Fore wing light-yellow, from root to discal area a light-brown portion with enlightenment in central cell and brown strokes marginally between veins. Fringe yellow with single brown scales. Hind wing light-yellow without pattern, fringe yellow.

Male genitalia. Typical for the genus *Eremocossus*. Uncus wide, conical, apically semicircular; gnathos arms long, thin; gnathos ribbon-like, flat; valve relatively short, distal third membranous, lanceolate, small semicircular process on costal edge of valve (on border between sclerotized and membranous part); transfista processes short, uncinately curved; juxta tiny, with two tapered lateral processes; saccus large, semicircular; phallus equal to valve in length, basally thick, gradually narrowing to apex, apex obliquely cut, vesica aperture in dorso-apical position, takes about 1/3 of phallus in length.

Diagnosis. In the color, *E. foedus* is mostly close to the nominative subspecies, *E. vaulogeri* (Staudinger, 1897), from which it differs in a less bright coloring and in the male genital structure: the uncinately curves transfista processes (which are straight in *E. vaulogeri*), in the wider apex of the valve (in *E. vaulogeri* the apex is strongly narrowing), and in the smooth apex of the phallus (in *E. vaulogeri* there are small paired denticles at the apex of the phallus near the vesica aperture).

Flight period. January–April.

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![Figures 1-4](image-url)
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