

Short Communication

New Record of *Anomala rugosa* Arrow, 1899 (Coleoptera: Scarabaeidae: Rutelinae) from the Fauna of Pakistan

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(received June 6, 2013; revised October 4, 2013; accepted October 14, 2013)

Abstract. A new country record of *Anomala rugosa* Arrow, 1899 (Scarabaeidae: Rutelinae) is presented. Several specimens are recorded from the provinces of Swat and Lower Dir, Pakistan. Sexual dimorphism of this species is briefly commented.

Keywords: *Anomala rugosa*, Rutelinae, Scarabaeidae, Pakistan, new record

The members of the subfamily Rutelinae are a diverse group and exhibit a worldwide distribution. The genus *Anomala* Samouelle, 1819 comprises of approximately 270 Palaearctic species (Zorn, 2006). *Anomala rugosa* is widely distributed in the Himalayan region: India (Himachal Pradesh, Uttarakhand, Sikkim, Darjeeling), Nepal, Bhutan (Chandra *et al.*, 2012c; Zorn, 2006) and has recently been reported also from Madhya Pradesh and Chhattisgarh in Central India (Chandra *et al.*, 2012b; Chandra and Gupta, 2012a; 2012d). Here, the first record of this species in Pakistan is presented. A single female of *A. rugosa* Arrow, 1899 (Fig. 1) was collected in Thrai village, Tehsil Timergara, District Lower Dir, Khyber Pakhtoonkhwa, Pakistan during July 2012. Moreover, Pakistani specimens of this species are also present in the collection of Natural History Museum of Erfurt (Germany) and in the personal collection of Carsten Zorn. There are several males and females labelled “NW-Pakistan, Prov. Swat, 71°90'N 35°70'E Madyan, 1400m, at light 19.06-04.07.1971, leg. C. Holzschuh”.

Anomala rugosa is closely related to *A. varicolor* Gyllenhal, 1817 and allied species. It differs in external morphology as well as in the shape of genitalia. *A. rugosa* shows an interesting sexual dimorphism which is absent in all related *Anomala* species: the elytra of females are densely punctate and partly rugose, with distinct minute setae. In males, the elytra are more sparsely punctate

and shining, with less distinct setae. Moreover, there is a distinct difference in the coloration of the sexes: females have yellowish brown elytra with dark markings, whereas the elytra in males are nearly entirely black. A more detailed description of *A. rugosa*, is given by Arrow (1917).



Fig. 1. Female of *Anomala rugosa* Arrow, 1899.

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Acknowledgement

We are greatly indebted to Denis Keith (France), and Aleš Bezdík (Czech Republic) for their assistance in identification of specie and for providing the literature, and Paul Lago (USA), who has very kindly corrected the language of the manuscript.

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