

Two new and notes on one previously known species of subgenus *Asioplatsysma* Kryzhanovskij (Coleoptera, Carabidae, Pterostichus) from Afghanistan

Florian Savich

Institute of Biology, University of Latvia, 3 Miera Str., Salaspils, LV-2169, Latvia

Abstract

Savich F. 1999. Two new and notes on one previously known species of subgenus *Asioplatsysma* Kryzhanovskij (Coleoptera, Carabidae, Pterostichus) from Afghanistan. - Latv. Entomol., 37: 6-13.

Two new species of subgenus *Asioplatsysma* Kryzh. are described from Afghanistan - *Pterostichus (Asioplatsysma) mujahedeeni* sp.n and *Pterostichus talibani* sp.n. The drawings of habitus and male genitalia for *Pterostichus (Asioplatsysma) klapperichi* Jedl. are given for the first time.

Key words: new species, Afghanistan, Carabidae, Pterostichus, *Asioplatsysma*

Introduction

Subgenus *Asioplatsysma* Kryzh. includes medium sized ground beetles distributed in southern Tajikistan and Afghanistan. Subgenus *Asioplatsysma* Kryzh. was distinguished from *Pseudoderus* Seidl. according to significant differences in genital structure, body colour and pronotum form (Kryzhanovskij, 1968)

This subgenus is divided into two groups - first of them comprise two species *P. capito* Tschit. and *P. medvedjevi* Kryzh et Mich. The members of this group are larger in size (12.0 mm - 15.0 mm) and occur in forest zone of mountains (about 2000 m a.s.l).

The second group includes six species - *P.rufopiceus* Heyd., *P.klapperichi* Jedl., *P.darvazicus* Kryzh., *P. karateghinicus* Mich., *P. mujahedeeni* sp.n, *P. talibani* sp.n. Specimens of this group are smaller in size (8.0 mm-12.0 mm) and occur subalpine zone (up to 4200m a.s.l) (Michailov, 1972).

A members of second group, except *P. klapperichi* Jedl., are locally distributed often on one mountain range. A presence of undescribed species are expected in unexplored and little visited regions of Afghanistan and, perhaps, extreme western Pakistan.

Material and Methods

The body measurements of beetles were made from carded specimens by stereo microscope with ocular micrometer. Pronotum and elytra length was taken at middle of body. Total body length was measured from elytra apex to apex of labrum. Body width was taken in the widest part.

Material used for preparation of this paper are housed in following collections: MNHNP – Museum National d’Histoire Naturelle Paris; NMB – Naturhistorisches Museum Basel; NME – Museum fur Naturkunde Erfurt; cFS – coll. Florian Savich; cGL – coll. Georges Ledoux; cOK – coll. Oleg Kabakov.

Pterostichus (Asioplastysma) mujahedeeni sp.n.

(fig. 1; 5)

Holotype: male labelled as: Afghanistan, Bamyan, S Kalu, 4500 m, 03.07.1971 leg O.N.Kabakov (cFS).

Paratypes: (2ex) with labels as for holotype (cOK).

Description: Colour of whole body chestnut, head slightly darker, legs lighter. Head moderately large, unpunctate, slightly narrower than pronotum. Eyes medium sized, convex. Two supraorbital setae at each side. Frontal furrows deep and wide. Labrum at each side trisetosae. The first antennal segment with one setae. The third antennal segment apically and following segments entire pubescent. Antennae exceed base of pronotum. Pronotum elongate, narrow, little cordate, the widest in anterior third. Median line fine. Anterior angles slightly protruding, obtuse. Each side of pronotum with two setae, first at the first third from anterior angle second slightly divert from hind angles. Hind angles of pronotum rounded, little arcuate. Lateral basal impressions straight and long, reach in length third of pronotum, basally much broader, anteriorly attenuating. Elytra slender, long, widest in apical third. Elytral stria shallow, unpunctate, equally deep entire length. The third elytral stria with three dorsal punctures, the third of them evidently located closer to apex than to second dorsal puncture. Humeri rounded, without denticle. Elytra with scutellar stria. Elytral intervals feebly raised, glabrous. Microsculpture consists of isodiametric meshes. Postepisternum moderately punctuate, denser at inner margin. Base of male genitalia at apex slightly protruding (fig. 5).

Body measurements: length of body 8.8-8.9 mm; width 2.8-3.0 mm; length of pronotum 1.9 mm; width 2.2 mm; length of elytra 5.1-5.3 mm; width 2.8-3.0 mm.

Distribution: Known only from type locality.

Variation: Not recognised.

Diagnosis: New species is similar to *P. rufopiceus* Heyd. and *P. talibani* sp.n. Easily separated from these species by characteristic narrow little cordiform pronotum, more slender body, more parallel elytra and structure of male genitalia.

***Pterostichus (Asioplatisma) talibani* sp.n.**

(fig. 2; 6)

Holotype: male labelled as : Afghanistan, W Salang pass, 3600 m., 02.08.1972 leg O.N.Kabakov (F.Savich collection).

Paratypes: (2ex) labelled as for holotype (cOK); (24ex) Afghanistan, Baghlan, Hindu-Kush, VTN Col du Salang 2900 m., 05.08.1974 leg G.Ledoux (MNHNP, MNB, NME, cGL, cFS).

Description: Body chestnut with lighter legs. Head moderately large, elongate, with few punctures at frontal furrows. Eyes normally sized, convex. Antennae moderately long. First antennal segment with one setae. Third antennal segment apically and following segments entire pubescent.

Pronotum cordate, evidently arcuate, towards base strongly narrowed, the widest at the first fourth from anterior angle, sides shallowly sinuate. Each side of pronotum with two punctures. Median line fine. Lateral basal impressions straight and long.

Elytra less elongate, more robust, elytral stria shallow, unpunctate, equally deep in entire length. Intervals little elevate, glabrous. The third elytral stria with three medium sized dorsal punctures, third of them located feebly near apex than second dorsal puncture. Humeri rounded, without denticle. Elytra with scutellar stria. Proepisternum moderately punctate. Male genitalia towards apex thicker, feebly prolonged (fig. 6).

Body measurements: length of body 9.5-11.0mm; width 3.3-3.7; length of pronotum 1.8-2.3 mm; width 2.4-2.7; length of elytra length 5.8-6.7; width 3.3-3.7.

Distribution: Known only from surroundings of Salang pass.

Variation: Little variations of pronotum and elytra length and height ratio recognised. Young specimens show also larger external measurements.

Diagnosis: New species is similar to *P.rufopiceus* Heyd., but differs by form of pronotum form and structure of male genitalia.

***Pterostichus (Asioplatisma) klapperichi* Jedlicka, 1955**

(fig. 3; 4)

The species is known only from localities given in A.Jedlicka (1955) descriptions. However after examination of type specimens from all localities housed in Praha museum the specimens labelled from Achmede Dewane could not be found, but locality Sham-Schir-Ror was mentioned. All material was collected in July-August, except from mentioned above locality, where material was collected in January. Drawings of habitus and genital structure are given for the first time as A.Jedlicka did not show them.

Systematic position. It seems that species not related to any of known species. This is larger species among second group of *Asioplatisma* Kryzh. Generally genital structure is similar to *mujahedeeni* sp.n. Colour of all examined specimens is darker than of other species of this group.

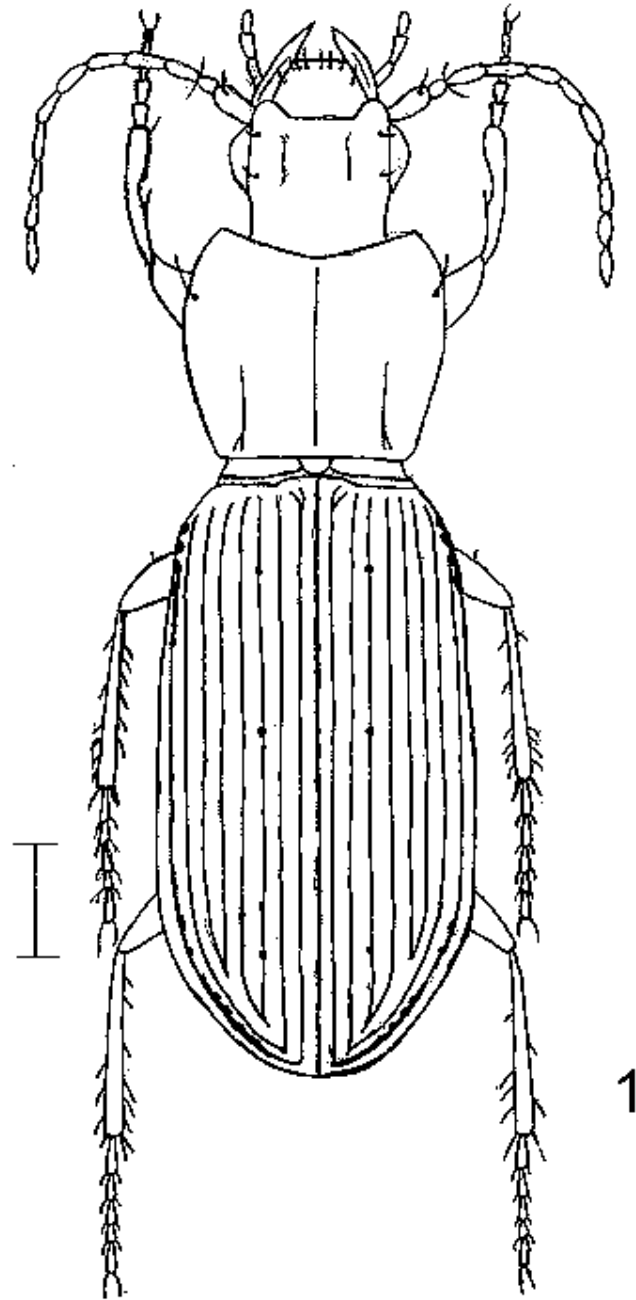


Fig. 1. *Pterostichus mujahedeeni*, sp. n., holotype general view.

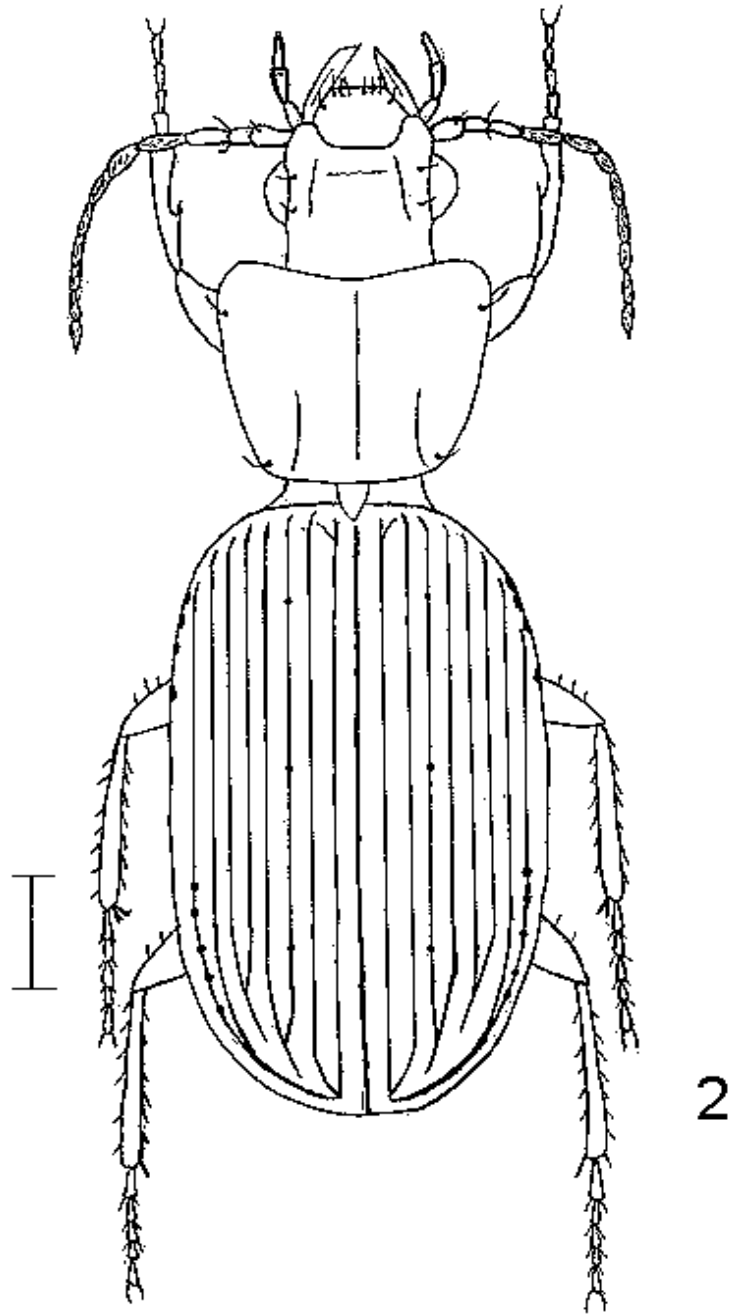


Fig. 2. *Pterostichus talibani*, sp. n., holotype general view.

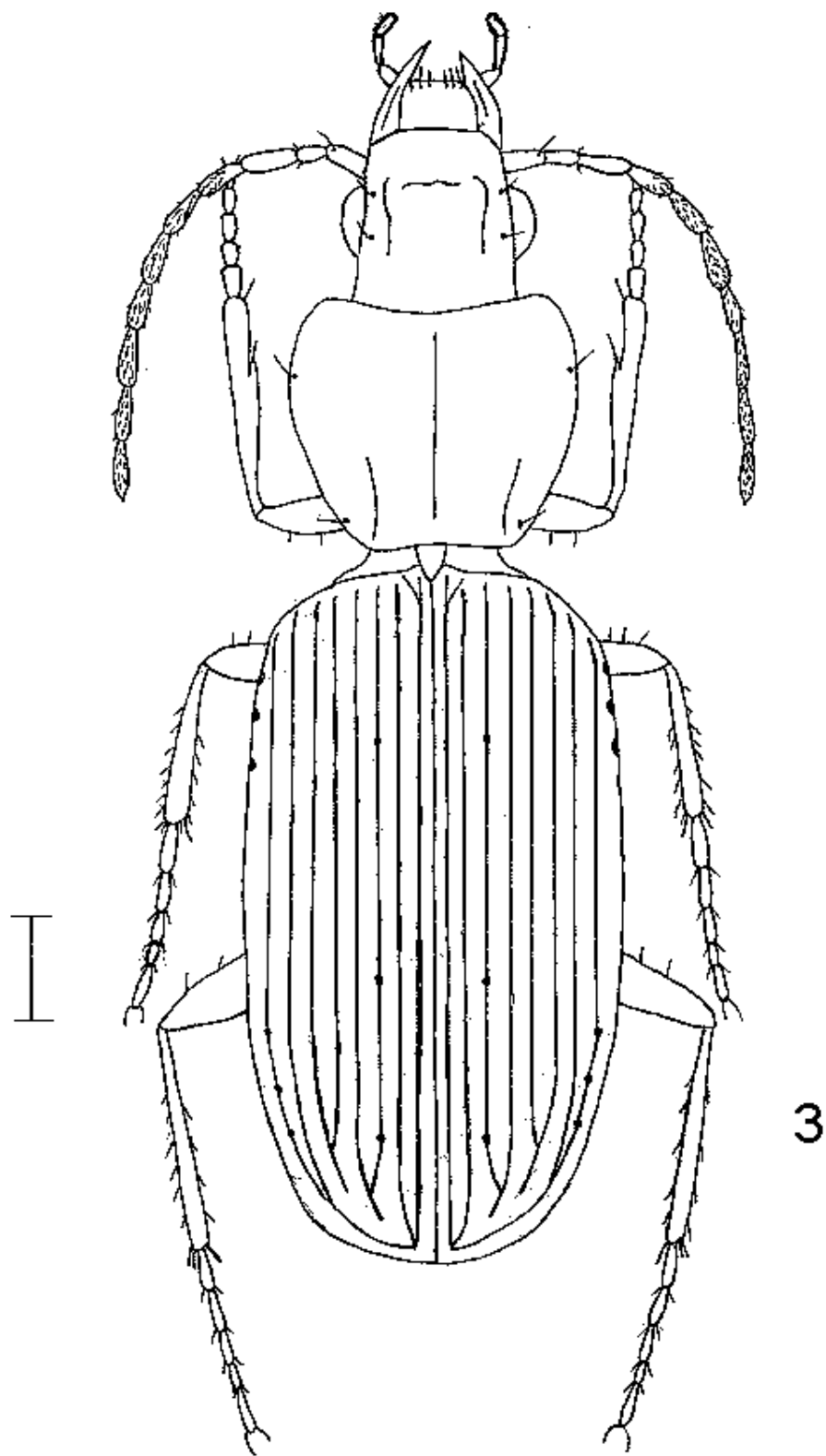
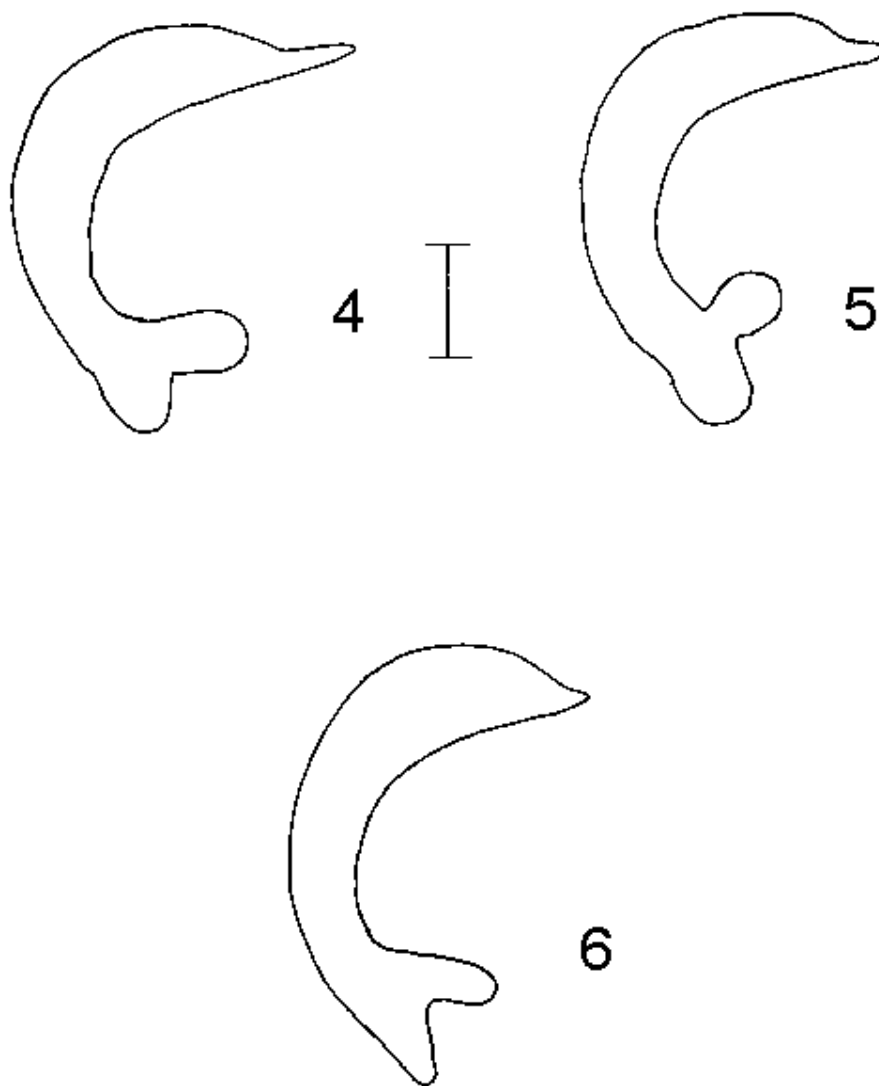


Fig. 3. *Pterostichus klapperichi* Jedl., paratype general view.



Figs 4-6. Male aedeagus: 4. *Pterostichus klapperichi* Jedl.; 5. *Pterostichus mujahedeeni* sp. n.; 6. *Pterostichus talibani* sp. n.

Acknowledgements

I am grateful to Mr. G.Ledoux (Clamart, France) and Mr. O.Kabakov (St. Petersburg, Russia) for submitting material on *Asioplatsysma* for identification and to Dr. J.Jelinek (Praha, Czech Republic) for kind loan types of *Pterostichus klapperichi* Jedl.

References

- Jedlicka A. 1955. Die Carabidae (Coleoptera) der Afghanistan-Expedition (1952 und 1953) J.Klapperichs. - Acta Ent. Mus. Prag., 30: 189-206.
- Kryzhanovsij O. 1968. New and poorly known ground-beetles (Coleoptera, Carabidae) from the fauna of USSR and adjacent countries. - Ent. Oboz. 47, N1: 160-175 (in Russian).
- Mikhailov V. 1972. A review of species of ground beetles of the subgenus *Asioplatsysma* Kryzh. of the genus *Pterostichus* Bon. (Coleoptera, Carabidae) from Hissaro-Darvaz and Afghan Badakhshan. - Ent. Oboz. 51, N1: 316-320 (in Russian).

Received: 17.01.1999