



## **Contribution to Knowledge of the Dermestidae (Coleoptera) from Afghanistan with Description of Three New Species**

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# CONTRIBUTION TO KNOWLEDGE OF THE DERMESTIDAE (COLEOPTERA) FROM AFGHANISTAN WITH DESCRIPTION OF THREE NEW SPECIES

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## ABSTRACT

Three new species *Orphilus kabakovi* **sp. nov.**, *Orphinus* (s. str.) *kabakovi* **sp. nov.**, *Ctesias* (*Decemctesias*) *mroczkowskii* **sp. nov.** (Coleoptera: Dermestidae) are described from Afghanistan. The habitus, antenna, genitalia are illustrated and compared with related species. The species *Attagenus indicus* Kalík, 1954 and *Anthrenus* (*Anthrenodes*) *amoenulus* Reitter, 1896 are newly recorded from Afghanistan. Morphological details with dorsal variability of *Attagenus indicus* Kalík, 1954 are illustrated for the first time. A revised list of the species from Afghanistan is given.

Key Words: taxonomy, new species, *Attagenus*, *Anthrenus*, *Ctesias*, *Orphilus*, *Orphinus*, Afghanistan

## RESUMEN

Se describen tres especies nuevas *Orphilus kabakovi* **sp. nov.**, *Orphinus* (s. str.) *kabakovi* **sp. nov.**, *Ctesias* (*Decemctesias*) *mroczkowskii* **sp. nov.** (Coleoptera: Dermestidae) de Afganistán. Se ilustran y se comparan el habitus, las antenas, la genitalia con otras especies afines. Se registran por primera vez las especies *Attagenus indicus* Kalík, 1954 y *Anthrenus* (*Anthrenodes*) *amoenulus* Reitter, 1896 en Afganistán. Se ilustran por primera vez los detalles morfológicos con la variabilidad dorsal de *Attagenus indicus* Kalík, 1954. Se provee una lista revisada de las especies de Afganistán.

Palabras Clave: taxonomía, nuevas especies, *Attagenus*, *Anthrenus*, *Ctesias*, *Orphilus*, *Orphinus*, Afganistán

The knowledge about Dermestidae of Afghanistan, located mainly in Central Asia, is still poor and undoubtedly requires further study. The list of available references is small. Most of them include short lists of the species recorded from Afghanistan so far (Mroczkowski 1959, 1960, 1961a, b). Recent papers with the descriptions of a new species are infrequent and were provided by Mroczkowski (1959 – description of *Anthrenus lindbergi*; 1961b – descriptions of 2 species of *Ctesias* spp.), John (1964 – descriptions of 8 species of *Thorictus* spp.) and Kadej & Háva (2006 – description of 2 species of *Anthrenus* spp.). Fifty seven species have been recorded from Afghanistan. Together, the species represent 13 of 62 genera of Dermestidae established so far. The study of the materials from Russian Academy of Science allowed us to find and describe new species, as well as supplement our knowledge about distribution of some of the skin beetles species.

## MATERIALS AND METHODS

Morphological structures were boiled for 3–10 min in 10% KOH, and placed in distilled water for about 1 h to clean and soften the cuticle. All structures were placed in glycerin mounts. Morphological structures were examined by a Nikon Eclipse E 600® (Tokyo, Japan) phase contrast microscope, and a Nikon SMZ–800® (Tokyo, Japan) binocular microscope. Photographs were taken by a Canon 500D® (Taiwan) and a Nikon D5100® (Tokyo, Japan) camera under a Nikon Eclipse 80i® (Tokyo, Japan) and/or a Nikon SMZ–800® (Tokyo, Japan). Image stacks were processed using Combine ZM® (Hadley 2010).

The distribution and the classification we used follow the world catalogues of Háva (2003, 2007).

The type specimens were each labelled with a red printed label bearing the following text: "HOLOTYPE [PARATYPE respectively, *Orphilus kabakovi* **sp. nov.** Háva & Kadej det. 2014; Or-

*phinus* (s. str.) *kabakovi* **sp. nov.** Háva & Kadej det. 2014; *Ctesias* (*Decemctesias*) *mroczkowskii* **sp. nov.** Háva & Kadej det. 2014”.

The following abbreviations were used in this study:

DBEIC Department of Invertebrate Biology, Evolution and Conservation, Institute of Environmental Biology, Faculty of Biological Science, University of Wrocław, Poland.

JHAC Private Entomological Laboratory & Collection, Jiří Háva, Prague-West, Czech Republic.

ZIN Zoological Institute of the Russian Academy of Science, St. Petersburg, Russia.

## RESULTS

Orphilinae LeConte, 1861

Orphilini LeConte, 1861

*Orphilus* Erichson, 1846

*Orphilus kabakovi* **sp. nov.** (Figs. 1-8)

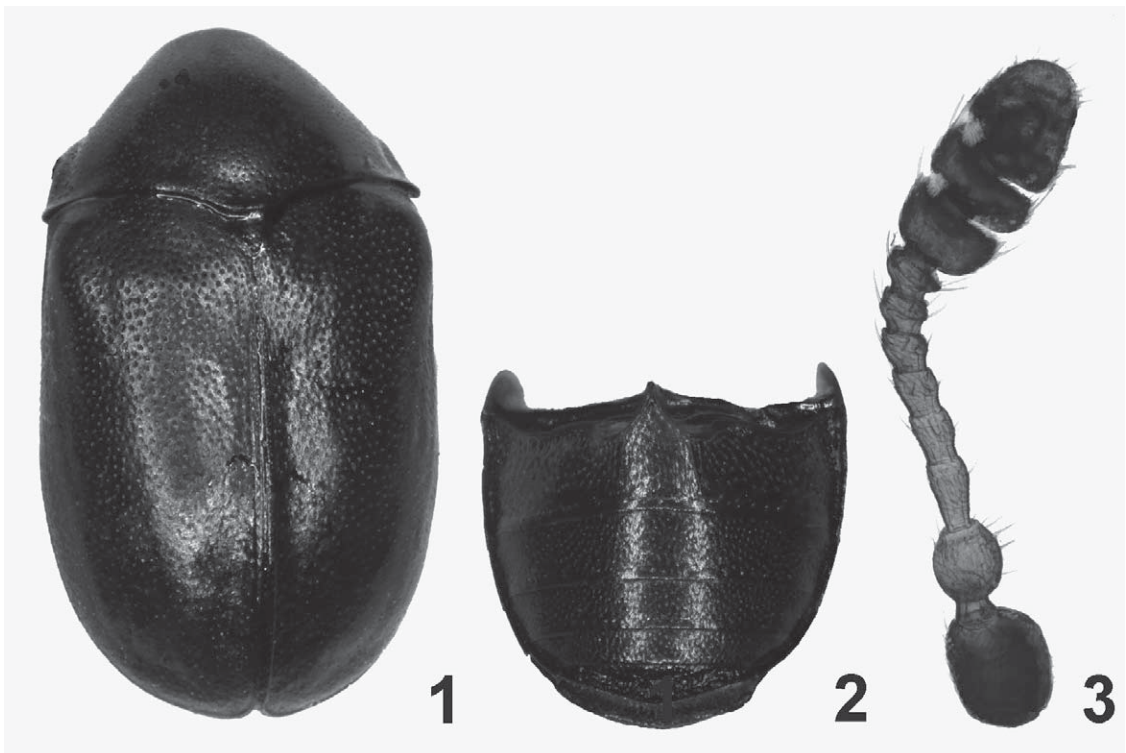
## Type Material

**HOLOTYPE** (male): AFGHANISTAN, Nurestan N Waygal, 2700m, 7 VII 1972, Kabakov lgt., (ZIN); **PARATYPES**: 2 exx. (females): Afghanistan, Nurestan N Waygal, 2700m, 7 VII 1972,

Kabakov lgt., (1 ZIN, 1 JHAC); 1 ex. (female): Afghanistan, Nurestan SW Čapa-Dera, 1500m, 11.6.1971, Kabakov lgt., (ZIN).

## Description

Measurements for holotype: length from anterior margin of pronotum to apex of elytron 3.7 mm; maximum width across elytra 2.05 mm; median length of pronotum 1.05 mm; maximum width of pronotum 2.0 mm; maximum length of sternites I-V 1.6 mm; maximum width of sternites I-V 1.8 mm; length of lateral margin of pronotum 0.9 mm; length of antennal fossa 0.75 mm [legs of third pair broken, tarsus of first left leg lost]; measurements for paratypes: length from anterior margin of pronotum to apex of elytron 4.1 mm; maximum width across elytra 2.4 mm; median length of pronotum 1.15 mm; maximum width of pronotum 2.25 mm; maximum length of sternites 1.65 mm; maximum width of sternites I-V 2.25 mm; length of lateral margin of pronotum 0.95 mm; length of antennal fossa 0.8 mm. Body subovate; nerly 2 times as long as wide. Head, antennae and legs retractile. Dorsum without dorsal patterns or elytral fasciae; dorsal and ventral surface unicolorous black (Figs. 1 and 2). Cuticle smooth, shining, densely punctated. Head with large compound eyes; median ocellus distinct and well developed.



Figs. 1–3. *Orphilus kabakovi* **sp. nov.**, holotype. 1, habitus, dorsal; 2, abdominal sternites I-V; 3, left antenna.



Figs. 4–8. *Orphilus kabakovi* **sp. nov.**, holotype. 4, male genitalia, ventral; 5, male genitalia, lateral; 6, male genitalia, dorso-lateral; 7, abdominal sternite IX; 8, abdominal sternite X.

Frons with short pubescence and gently punctation. Antenna 11-segmented; brown (first anten-nomer and segments of antennal club darker than the rest of antennomeres (Fig. 3). Antennal club of 3 segments (Fig. 3). Antennal fossa deeply excavate and occupy greater part of hypomeron. Pronotum convex, gently punctate with distinct lateral margin visible from above (Fig. 1). Scutellum triangular, black, small and poorly marked, without punctation. Elytra parallel-sided, each elytron densely punctated, those punctures larger than on pronotum. Humeral calli well developed and visible. All of the elytral area covered with brownish, short pubescence (it is visible under microscope). Elytral suture slightly convex at half of it's length. Abdomen densely punctated, punctures distinctly denser on 2nd to 5th visible sternite, and with sublateral distal carinae on 1st visible sternite. Abdominal sternites I–V covered with short brownish pubescence; setation longer on 1st visible sternite (Fig. 2). Legs covered with stout, brownish setation. Tarsi lighter than tibia and femora; femora without distinct teeth (tibial spines). Tarsus with 2 tarsal-claws. Phallus as in Figs. 4–6. Parameres deeply U-shaped, covered with few, short setae on the lateral margins as well as in the central and inner areas; longer setae present only on apex of parameres. Distal parts of parameres thinner than the rest part of parameres. Penis with distal end pointing up (Figs. 4–6); in frontal view straight (Fig. 4), in lateral distinctly curved in a basal part above narrow and short apodemes (Fig. 5). Shape of ninth abdominal sternite oval-like (Fig. 7). Apex slightly elongated and rounded. Setae present on the top and lateral margins, but only in the anterior part. Tenth abdominal sternite as in Fig. 8.

Dimorphism. Females habitually similar to males. Sexual dimorphism not observed, thus to distinguish both sexes dissection of genitalia is required.

#### Differential Diagnosis

*Orphilus kabakovi* **sp. nov.** is similar to *O. niger* (Rossi, 1790) and *O. beali* Zhantiev, 2000 but differs from them by the morphology of male genitalia, pronotum and antennae.

Morphology of parameres: In *Orphilus kabakovi* **sp. nov.** the apices of parameres slightly narrowed, acute and not curved to inner, lateral margins of parameres in the middle not widened, median lobe narrow; in *O. niger* apices of parameres slightly narrowed, rounded and curved to the inner side, lateral margins of parameres in the middle widened; while in *O. beali* parameres are widened in the middle and strongly narrowed apically.

Morphology of pronotum: In *Orphilus kabakovi* **sp. nov.** the lateral margin distinctly visible from above in basal third; in *O. niger* lateral margin visible from above in basal third but the deflection is smaller in comparison with *O. kabakovi*; while in *O. beali* lateral margin not visible from above in basal third.

Morphology of antennae: In *Orphilus kabakovi* **sp. nov.** the last antennal segment elongated and convex, while flattened in *O. niger* and *O. beali*.

#### Etymology

The epithet is a patronym honoring the collector of the beetles – O. N. Kabakov (St. Petersburg, Russia).

#### Remarks

Genus *Orphilus* recently includes only 6 species. One of them—*O. dubius* Wickham, 1912—represents fossil species (Early Oligocene: Florissant). The rest of the known species have been recorded mainly in Nearctic or Palearctic region



(Háva 2003, 2007). The knowledge about biology and ecology of the *Orphilus* species is limited only to information provided by Beal (1985) and Zhantiev (2001). The description of immatures stages have been given by Paulian (1943), Beal (1985, 1991), Zhantiev (2001) and Kiselyova & McHugh, 2006.

*Attageninae* Laporte de Castelnau, 1840  
*Attagenini* Laporte de Castelnau, 1840  
*Attagenus* Latreille, 1802  
*Attagenus indicus* Kalík, 1954 (Figs. 9-19)

#### Material Examined

Afghanistan, Laghman E Šamak, 1,100m, 20 IV 1972, Kabakov lgt., 6 exx., (ZIN, DBEIC, JHAC); Afghanistan, Laghman O Šamak, 1,300m, 17.9.1972, Kabakov lgt., 2 exx., (ZIN).

#### Distribution

India: Madhya Pradesh, Uttar Pradesh; Nepal (Háva 2007). New record for Afghanistan.

#### Remarks

Redescription with some additional drawings of larval and adult morphology of *A. indicus* has been made by Veer & Rao (1995). Figures 9, 11-12 show the spectrum of color variability of the dorsal patterns. Because Vladimír Kalík did not attach any drawings or photographs of this species in his original description (Kalík 1954), the morphology of *A. indicus* is richly illustrated with photographs for the first time (Figs. 9-19). Due to lack of the differential diagnosis in Kalík's original description we decided to provide additional characters which differentiate *A. indicus* from similar species such as *A. farsus* Háva, 2012 below:

In *A. indicus* Kalík, 1954: antenna yellowish-brown; pubescence on dorsal and ventral integument short; integument of anterior transverse fasciae on elytra yellowish and the same as apical spot covered with golden-yellow pubescence; apical spot isolated. In contrast, in *A. farsus* Háva, 2012, the antenna dark brown; pubescence on dorsal and ventral integument long; integument of anterior transverse fasciae on elytra orange-reddish and the same as apical fasciae covered with grey pubescence; apical fasciae not isolated.

#### Subfamily Megatominae Leach, 1815

Tribe Anthrenini Gistel, 1848  
 Genus *Anthrenus* Geoffroy, 1762  
*Anthrenus (Anthrenodes) amoenulus* Reitter, 1896

#### Material Examined

Afghanistan, Oruzgan, N Sahzestan 2,500 m, 18.vii.1970, Kabakov lgt., 1 spec., M. Kadej & J. Háva det., (ZIN); Afghanistan, Oruzgan, N Sahzestan 2,500 m, 18.7.1970, Kabakov lgt., 1 spec., M. Kadej & J. Háva det., (ZIN).

#### Distribution

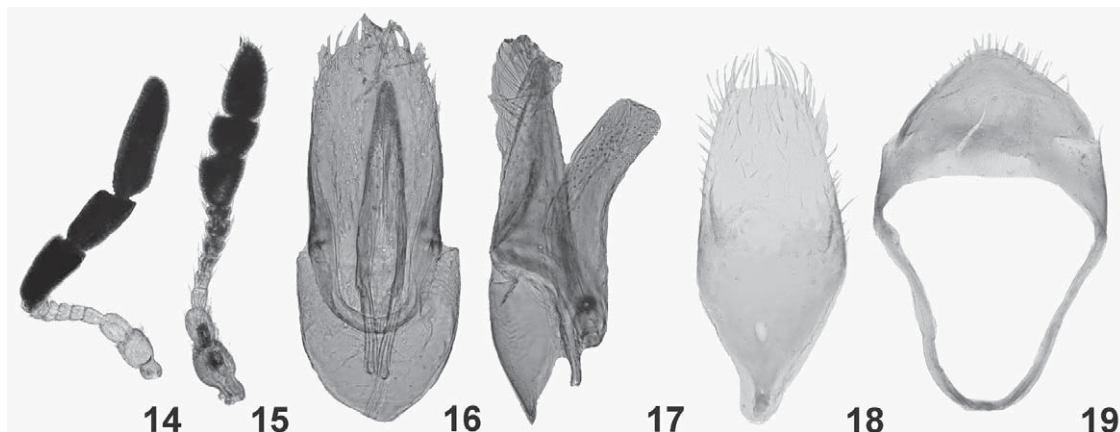
Species known from Caspian Lowlands, "Caucasus", Iran, Turkey, Turkmenistan (Háva 2007); new for Afghanistan.

#### Tribe Megatomini Leach, 1815

Genus *Orphinus* Motschulsky, 1858a  
*Orphinus (Orphinus) kabakovi* **sp. nov.** (Figs. 20-29)



Figs. 9–13. *Attagenus indicus* Kalík, 1954, habitus. 9, 11 male, dorsal; 12, female, dorsal; 10, 13 ventral.



Figs. 14–19. *Attagenus indicus* Kalík, 1954. 14, male antenna, left; 15, female antenna, left; 16, male genitalia; 17, male genitalia, lateral; 18, abdominal sternite IX; 19, abdominal sternite X.

#### Type material

**HOLOTYPE** (male): AFGANISTAN, 30 km O Jalalbad 500 m 20.12.1970 Kabakov lgt. (ZIN).

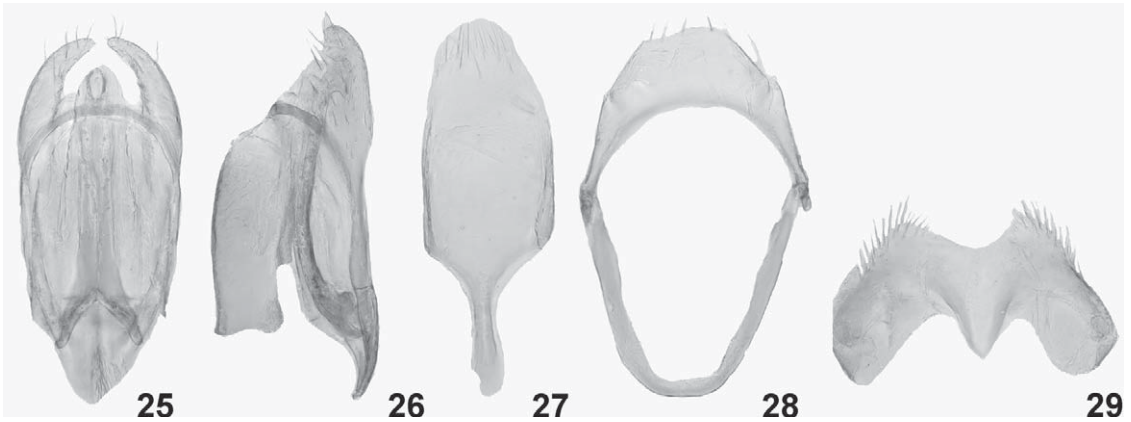
#### Description

Measurements for holotype: length from anterior margin of pronotum to apex of elytron 2.3 mm; maximum width across elytra 1.15 mm; median length of pronotum 0.55 mm; maximum width of pronotum 2.25 mm; maximum length of sternites I–V 1.1 mm; maximum width of sternites I–V 1.25 mm; length of lateral margin of pronotum 0.4 mm; length of antennal fossa 0.3 mm. Body oval, slightly convex, densely clothed with simple and relatively long hairs (Fig. 20). Punctuation of body visible; those punctures on elytra better marked than on pronotum. Ratio of width (across humeri) to length (of pronotum and elytra combined) 1:2. Dorsal in-

tegument bicolorous - dark brown and light brown; while ventral unicolor - dark brown. Antennae light brown (only first antennomeres darker than the rest); legs brown but tibiae and tarsi lighter than femora and trochanters (Fig. 21). Dorsal and ventral integument with light brownish pubescence (Figs. 20, 21, 23). Head with large compound eyes, median ocellus distinct and well developed (but covered by long light brownish hairs). Antenna light brown, 11-segmented (Fig. 22). Antennal club of 2 segments: segment 1 short and transverse, segment 2 considerably larger (Fig. 22). Last segment of antennal club rather circular (slightly suboval) in general shape; 4.5 times as long and 1.5 times as wide as preceding segment. Antennal fossa deeply excavate and occupies greater part of hypomerion (Fig. 21). Adjacent area of hypomerion (around antennal fossa) with stout setation. Pronotum slightly punctuated with lateral margin slightly visible from above (in anterior part near head). Scutellum trian-



Figs. 20–24. *Orphinus (Orphinus) kabakovi* sp. nov., holotype. 20, habitus, dorsal; 21, habitus, ventral; 22, left antenna; 23, abdominal sternites I–V; 24, pygidium.



Figs. 25–29. *Orphinus (Orphinus) kabakovi* **sp. nov.**, holotype. 25, male genitalia; 26, male genitalia, lateral; 27, abdominal sternite IX; 28, abdominal sternite X; 29, abdominal sternite VIII.

gular (acute angles), dark brown, small and poorly marked. Elytra parallel-sided, each elytron densely punctuated, those punctures larger than on pronotum. Almost all of the elytral area covered with light brownish pubescence (Fig. 20). Elytra with 2 areas of light brown cuticle – one situated under humeral calli (looks like reversed V and does not reach the suture), second one located in the lower part of elytra from half of length to apices (circular in general shape) (Fig. 20). Abdomen densely punctuated, punctures denser on 2nd to 5th visible sternite, and with sublateral distal carinae on 1st visible sternite. Pygidium as in Fig. 24. Legs covered with stout, brownish setation. Tibiae and tarsi lighter than femora and trochanters, without distinct teeth (tibial spines). Tarsus with 2 tarsal-claws. Phallus as in Figs. 25 and 26. Parameres deeply u-shaped, covered with few setae on the lateral margins as well as in the central and inner areas; the longest setae present only on apex of parameres. Distal parts of parameres curved inward above the bridge of parameres. Penis with distal end pointing up (Figs. 25 and 26); in frontal view straight (Fig. 26), in lateral slightly curved in a basal part above short apodemes and below of the apical part (Fig. 26). Apical part of penis (on top) acute (in lateral view, Fig. 26). Ninth abdominal sternite spatula-like (Fig. 27). Apex slightly elongated and rounded. Setae present on the top and lateral margins, but only in the anterior part. Abdominal sternite X as in Fig. 28. VIII abdominal sternites as illustrated in Fig. 29.

#### Differential Diagnosis

The new species is similar to the *Orphinus atrofasciatus* Pic, 1916 and *Orphinus notaticollis* Pic, 1916, but differs from them by the following characters:

In *Orphinus atrofasciatus* Pic, 1916: dark elytral transverse fascia reaching from suture to lateral part; pronotum without dark discal spot

(India: Tamil Nadu); in *Orphinus notaticollis* Pic, 1916: dark elytral transverse fascia not reaching from suture to lateral part; pronotum with dark discal spot (south and east India); while in *Orphinus kabakovi* **sp. nov.** elytra with 2 areas of light brown cuticle – one situated under humeral calli (looks like reversed V and does not reach the suture), second one located in the lower part of elytra from half of length to apices (circular in general shape) (Fig. 20) (Afghanistan).

#### Etymology

The epithet is a patronym honoring the collector of the beetles – O. N. Kabakov (St. Petersburg, Russia).

#### Genus *Ctesias* Stephens, 1830

*Ctesias (Decemctesias) kaliki* Mroczkowski, 1961 (Fig. 30)

#### Material Examined

Afghanistan, Oruzgan N Sahvestan, 2,500 m, 18.7.1970, Kabakov lgt., 2 exx., (ZIN); Afghanistan, Nurestan S Waygal, 1,500 m, 18.7.1972, Kabakov lgt., 1 ex. (ZIN).

#### Distribution

Afghanistan (Háva 2007); new locality data for this country.

*Ctesias (Decemctesias) mroczkowskii* **sp. nov.** (Figs. 31–41)

#### Type Material

**HOLOTYPE** (male): AFGHANISTAN, Ghazni Ahguri 2,000 m 10 VII 1973 Kabakov lgt. [both





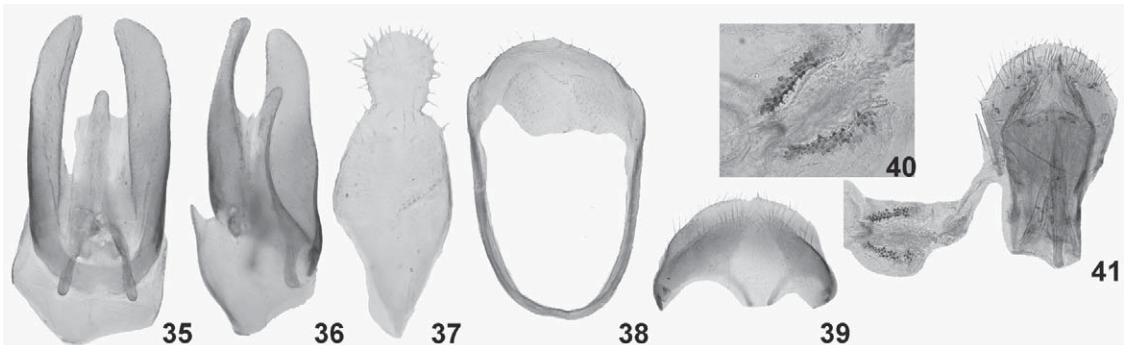
Figs. 30–34. *Ctesias (Decemctesias) kaliki* Mroczkowski, 1961. 30, habitus, dorsal; *Ctesias (Decemctesias) mroczkowskii* **sp. nov.** 31, habitus, dorsal (holotype); 32, habitus, ventral (holotype); 33, male antenna, left (holotype); 34, female antenna, left (paratype).

antenna without last 2 antennomeres], (ZIN); PARATYPES: 3exx. (females): Afghanistan, Ghazni NW Mogur 3000m 23.5.1973 Kabakov lgt., (ZIN, DBEIC, JHAC) [one of them with damaged pronotum, left antenna in 2 parts, most of dorsal pubescence on pronotum and elytra in central part lack].

#### Description

Measurements for holotype: length from anterior margin of pronotum to apex of elytron 3.65 mm; maximum width across elytra 2.1 mm; median length of pronotum 0.8 mm; maximum width of pronotum 1.9 mm; maximum length of sternites I–V 1.7 mm; maximum width of sternites I–V 1.9 mm; length of lateral margin of pronotum 0.8 mm; measurements for paratype: length from anterior margin of pronotum to apex of elytron 4.15 mm; maximum width across elytra 2.4 mm; median length of

pronotum 1.0 mm; maximum width of pronotum 2.15 mm; maximum length of sternites I–V 2.15 mm; maximum width of sternites I–V 2.35 mm; length of lateral margin of pronotum 0.8 mm. Body oval and convex. Dorsal surface covered with dark brown and white setation (Fig. 31); while ventral with brownish and white (Fig. 32). Integument of pronotum black, while elytral integument dark brown to reddish (Fig. 31). Both sides of the body (dorsum and venter) with visible punctuation. Head with convex and compound eyes, covered with dark brown and short setae. Median ocellus present. Antenna of both sexes 10-segmented (Fig. 34); brown (in transparent light first antennomeres darker than the rest of segments, Figs. 33 and 34). Antennal club of 3 segments; segment 1 in male as in Fig. 33, while antennal club in female as in Figs. 34. Pronotum distinctively convex in central part of disc; cavities along posterior margin slightly depressed. All area of pronotum with



Figs. 35–41. *Ctesias (Decemctesias) mroczkowskii* **sp. nov.**, 35, male genitalia (holotype); 36, male genitalia, lateral (holotype); 37, abdominal sternite IX (holotype); 38, abdominal sternite X (holotype); 39, abdominal sternite VII–VIII (holotype); 40, sclerites in bursa copulatrix (paratype); 41, female genitalia (paratype).



dark brown pubescence – only few white setae near posterior margin. Scutellum subtriangular, dark brown, small and poorly marked. Elytra parallel-sided, each elytron densely punctate, those punctures larger than on pronotum. Elytral area covered with dark brown and white pubescence (Fig. 31). Cuticle of elytra bicolorous – between dark brown areas 3 reddish transversal lines present (first under humeral calli, second in half of the total length of elytra, third above apices). Dark brown elytral integument covered with dark brown pubescence, while reddish areas with white pubescence. Abdomen densely punctuated, punctures denser on 2nd to 5th visible sternite. 1st visible sternite without sublateral distal carinae. Legs covered with stout, brownish setation. Tibiae and tarsi lighter than femora and trochanters, and without distinct teeth (tibial spines). Tarsus with 2 tarsal-claws. Phallus as in Figs. 35 and 36. Parameres deeply u-shaped, covered with few and short setae on the lateral margins as well as in the central and inner areas. Distal parts of parameres only slightly curved inward. Penis with distal end pointing up (Figs. 35 and 36); in frontal view straight (Fig. 35), in lateral as in Fig. 36. Apical part of penis (on top) rounded (Figs. 35 and 36). Ninth abdominal sternite as in Fig. 37. Apical part clearly separated from the rest by the narrowing. Apex elongated and rounded. Setae present on the top and lateral margins, but only in the anterior part. Abdominal sternite X as in Fig. 38. VII and VIII abdominal sternites as illustrated Fig. 39. Female genitalia as in Fig. 41. Sclerites in bursa copulatrix as in Fig. 40.

Dimorphism. Females similar to males, but sexual dimorphism expressed in morphology of antenna: in male length of first segment in antennal club is longer than the length of preceding segments combined, while in female shorter.

#### Differential Diagnosis

The new species differs from similar species *C. kaliki* Mroczkowski, 1961 and *C. tschuiiensis* Sokolov, 1972 by the following characters:

In *C. kaliki* Mroczkowski, 1961: elytra covered by white, dark brown and yellowish setation; elytra oval; in *C. tschuiiensis* Sokolov, 1972: dorsal cuticle black without reddish fasciae or spots; each elytron with 3 transverse fasciae from white setation; while in *C. mroczkowskii* **sp. nov.**: elytra and pronotum covered by white and dark brown setation; elytra more parallel.

#### Etymology

The epithet is a patronym honoring the well known specialist in Dermestidae – Prof. M. Mroczkowski (21.3.1927-6.10.2007).

Genus *Phradonoma* Jacquelin du Val, 1859

*Phradonoma* sp.

#### Material Examined

Afghanistan, Oruzgan, N Sahzestan 2,500 m, 18.vii.1970, Kabakov lgt., 1 spec., M. Kadej & J. Háva det., (ZIN).

#### Remarks

The specimen belongs to the informal “*nobile* - species group”. Because of a wide spectrum of variability of *P. nobile* the species status of this particular female must be supported and confirmed by the analysis of male morphology.

#### DISCUSSION

The total number of the species of Dermestidae in Afghanistan is low but we are confident that it will increase progressively. Surely, the current level of the knowledge about biodiversity of this country is strongly influenced by the uncertain political situation. Recently, representatives of 13 genera of the 62 genera established in the Dermestidae have been recognized from this country. The subfamilies of Attageninae with genus *Attagenus* (13 species) and Megatominae with genus *Anthrenus* (14 species) are the most numerous in comparison to the other subfamilies (see the list below). Nonetheless, the new records as well as newly described species allow us to believe that the future systematic study of Afghanistan's fauna will bring significant progress in determining the species richness of this country.

#### LIST OF THE SPECIES OF DERMESTIDAE RECORDED FROM AFGHANISTAN

An asterisk (\*) indicates a new record.  
Subfamily Dermestinae

##### Tribe Dermestini

**Genus** *Dermestes* Linnaeus, 1758

Subgenus *Dermestes* (s.str.)

*Dermestes ater* DeGeer, 1774

*Dermestes bicolor bicolor* Fabricius, 1781

*Dermestes leechi* Kalík, 1952

Subgenus *Dermestinus* Zhantiev, 1967

*Dermestes coronatus* Steven in Schönherr, 1808

*Dermestes frischii* Kugelann, 1792

*Dermestes laniarius laniarius* Illiger, 1802

*Dermestes maculatus* DeGeer, 1774

*Dermestes undulatus* Brahm, 1790

##### Subfamily Thorictinae

Tribe Thorictini

**Genus** *Thorictus* Germar, 1834

*Thorictus angustus* John, 1964

*Thorictus kabulanus* John, 1964  
*Thorictus kandaharicus* John, 1962  
*Thorictus khinjanus* John, 1964  
*Thorictus quiquesulcatus* John, 1964  
*Thorictus walanganus* John, 1964

#### Subfamily Orphilinae

##### Tribe Orphilini

**Genus** *Orphilus* Erichson, 1846

*Orphilus kabakovi* **sp. nov.**

#### Subfamily Attageninae

##### Tribe Attagenini

**Genus** *Attagenus* Latreille, 1802

*Attagenus afghanus* Háva, 2000

*Attagenus bifasciatus* (Olivier, 1790)

*Attagenus brunneus* Faldermann, 1835

*Attagenus cyphonoides* Reitter, 1881

*Attagenus fasciatus* (Thunberg, 1795)

*Attagenus gobicola* Frivaldszky, 1892

\**Attagenus indicus* Kalík, 1954

*Attagenus lobatus* Rosenhauer, 1856

*Attagenus pellio* (Linnaeus, 1758)

*Attagenus pictus* Ballion, 1871

*Attagenus suspiciosus* Solsky, 1876

*Attagenus unicolor unicolor* (Brahm, 1790)

*Attagenus unicolor simulans* Solsky, 1876

#### Subfamily Megatominae

##### Tribe Anthrenini

**Genus** *Anthrenus* Geoffroy, 1762

Subgenus *Anthrenodes* Chobaut, 1898

\**Anthrenus* (*Anthrenodes*) *amoenulus* Reitter, 1896

*Anthrenus distinctus* Kadej & Háva, 2006

*Anthrenus klapperichi* Kadej & Háva, 2006

Subgenus *Anthrenops* Reitter, 1881

*Anthrenus coloratus* Reitter, 1881

*Anthrenus zebra* Reitter, 1889

Subgenus *Anthrenus* (s. str.)

*Anthrenus flavipes flavipes* LeConte, 1854

*Anthrenus flavipes albopunctatus* Pic, 1895

*Anthrenus latefasciatus* Reitter, 1892

*Anthrenus lindbergi* Mroczkowski, 1959

*Anthrenus picturatus picturatus* Solsky, 1876

*Anthrenus picturatus melanoleucus* Solsky, 1876

*Anthrenus pimpinellae pimpinellae* (Fabricius, 1775)

*Anthrenus rotundulus* Reitter, 1889

*Anthrenus scrophulariae scrophulariae* (Linnaeus, 1758)

Subgenus *Florilinus* Mulsant & Rey, 1868

*Anthrenus flavidus* Solsky, 1876

*Anthrenus muscorum* (Linnaeus, 1761)

Subgenus *Nathrenus* Casey, 1900

*Anthrenus verbasci* (Linnaeus, 1767)

#### Tribe Megatomini

**Genus** *Ctesias* Stephens, 1830

Subgenus *Decemctesias* Háva, 2004

*Ctesias kaliki* Mroczkowski, 1961

*Ctesias mroczkowskii* **sp. nov.**

**Genus** *Globicornis* Latreille in Cuvier, 1829

Subgenus *Pseudomesalia* Ganglbauer in Bode-meyer, 1900

*Globicornis maculatus* Háva, 2004

*Globicornis quadriguttatus* (Reitter, 1878)

**Genus** *Megatoma* Herbst, 1791

Subgenus *Pseudohadrotoma* Kalík, 1951

*Megatoma conspersa* Solsky, 1876

**Genus** *Orphinus* Motschulsky, 1858

Subgenus *Orphinus* (s. str.)

*Orphinus kabakovi* **sp. nov.**

**Genus** *Phradonoma* Jacquelin du Val, 1859

*Phradonoma jelineki* Háva, 2006

*Phradonoma nobile* (Reitter, 1881)

**Genus** *Reesa* Beal, 1967

*Reesa vespulae* (Milliron, 1939)

**Genus** *Thaumaglossa* Redtenbacher, 1867

*Thaumaglossa yeti* Háva, 2003

**Genus** *Trogoderma* Dejean, 1821

*Trogoderma granarium* Everts, 1898

*Trogoderma variabile* Ballion, 1878

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