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Dermestidae (Coleoptera) from the collection of the Czech entomologist Aldo Olexa. Part 2 – Thorictini

Dermestidae (Coleoptera) ze sbírky českého entomologa Aldo Olexy. Část 2 – Thorictini

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Taxonomy, distribution, new species, Coleoptera, Dermestidae, *Thorictus*, Palaearctic region

Abstract. The list of all identified specimens from the tribe Thorictini (Coleoptera: Dermestidae) from the collection of the Czech entomologist Aldo Olexa are presented. A new species, *Thorictus olexai* sp. n. from Kazakhstan, is described and illustrated. New records extending the known geographical distribution are published for the following taxa: *Thorictus castaneus castaneus* Germar, 1834, *T. ehlersii therondi* Chobaut, 1924, *T. foreli* Wasmann, 1894 (all from Morocco), *T. grandicollis grandicollis* Germar, 1842, *T. myrmecophilus* Reitter, 1881 (both from Armenia), and *T. petranus* John, 1965 from Syria.

INTRODUCTION

The collection of the excellent Czech entomologist Aldo Olexa contains 207 specimens of the genus *Thorictus* Germar, 1834, from the tribe Thorictini (family Dermestidae). Thorictini contain about 164 species in four genera distributed in the Palaearctic and Afrotropical Regions (John 1963, 1965; John & Andreae 1967; Háva 2003). Genus *Thorictus* was divided into two species groups defined by John (1963) according to the form of the pronotum.

The present paper provides a description of a new species from Kazakhstan and new faunistic records of six species. All other identified specimens are listed.

METHODS

All specimens listed in the faunistic part were identified by A. Olexa and reviewed by the author. All specimens treated in this paper were recently deposited in the author's collection. Locality labels are cited in the original version. Separate labels are indicated by slashes (\ ). Remarks of the author are found in square brackets [ ]. The integumental structures are named according to Harris (1979). The following measurements are provided: total body length (TL) – linear distance from the anterior margin of pronotum to the apex of elytra; elytral width (EW) – maximal linear transverse distance. Data on the distribution and classification of Dermestidae follow Háva (2003).

FAUNISTIC PART

Thorictus castaneus Germar, 1834 species group

Thorictus bonnairei bonnairei Wasmann, 1894

Material examined. Algeria: "Algeria, El Golea [30°34′N 2°52′E], 14.4.1988, A. Olexa [leg.]", 1 spec.; **Tunisia:** "Tunis, Haffiz [Haffuz, 35°38′N 9°40′E], 5.6.1982, A. Olexa [leg.]",

3 spec.; "Tunis, Msaken [Masakin, 35°44′N 10°35′E], 8.6.1982, A. Olexa [leg.]", 13 spec.; "Tunis, Monastir [Al Munastir, 35°47′N 10°50′E], 12-15.6.1982, A. Olexa [leg.]", 6 spec. All specimens identified by A. Olexa as *T. foreli bonnairei*, J. Háva revid.
Nominotypical subspecies known from Algeria, Morocco and Tunisia.

Thorictus castaneus castaneus Germar, 1834
Material examined. Egypt: "Egypt, lgt. R. Veselý" \ "Al-Maádí, 16.3.[19]59", 1 spec.; **Morocco:** "Maroc, Rabat env., 18.5.[19]92, A. Olexa [leg.]", 8 spec.
Nominotypical subspecies known from Algeria, Egypt and Syria. First record from Morocco.

Thorictus ehlersii therondi Chobaut, 1924
Material examined. Morocco: "Maroc, Tenerhir [Anti Atlas, Tenerhch, 30°17′N 7°57′W], Gorgea du Todra, 5.5.1991, A. Olexa [leg.]", 7 spec. All specimens determined A. Olexa as *T. ehlersi*, J. Háva revid.
Subspecies known from Algeria and Tunisia. First record from Morocco.

Thorictus fairmairei fairmairei Raffray, 1873
Material examined. Morocco: "Maroc, Asni [High Atlas, 31°14′N 7°59′W], 11.5.[19]91, A. Olexa [leg.]", 1 spec.
Nominotypical subspecies known from Algeria and Morocco.

Thorictus fairmairei tunisius Chobaut, 1924
Material examined. Tunisia: "Tunis, Monastir [Al Munastir, 35°47′N 10°50′E], 12-15.6.1982, A. Olexa [leg.]", 12 spec.
Subspecies known only from Tunisia.

Thorictus foreli Wasmann, 1894
Material examined. Algeria: "Algeria, Bou Saada [36°46′N 4°35′E], 17.4.1988, A. Olexa [leg.]", 3 spec.; "Algeria, El Golea [30°34′N 2°52′E], 14.4.1988, A. Olexa [leg.]", 5 spec.; **Tunisia:** "Tunis, Msaken [Masakin, 35°44′N 10°35′E], 8.6.1982, A. Olexa [leg.]", 2 spec.; **Morocco:** "Maroc, Agdz [Anti Atlas, 30°43′N 6°27′W], 8.5.1991, A. Olexa [lgt.]", 2 spec.; "Maroc, Quarzazate, 14.5.1992, A. Olexa [lgt.]", 3 spec.
Species known from Algeria and Tunisia. First record from Morocco.

Thorictus mogadoricus Escalera, 1914
Material examined. Morocco: "Maroc, Tenerhir [Anti Atlas, Tenerhch, 30°17′N 7°57′W], Gorges du Todra, 5.5.1991, A. Olexa [leg.]", 13 spec.; "Maroc, Asni [High Atlas, 31°14′N 7°59°W], 11.5.1991, A. Olexa [leg.]", 1 spec.; "Maroc, Mhamid [60 km S of Zagora, 29°49′N 5°43′W], 12.5.1992, A. Olexa [lgt.]", 1 spec.; "Maroko, Al-Rachidia bar, 23.4.1995, [K.] Orszulik lgt.", 1 spec.; "Maroc, Tioute [Atlas Mts., 31°10′N 5°48′W], 8.5.1992, A. Olexa [leg.]", 2 spec.
Species known only from Morocco.

Thorictus pilosus Peyron, 1857
Material examined. Syria: "Syria, Sednaya [Saydnaya, Anti Lebanon Mountains, 33°42′N 36°23′E], 1415 m, 8.5.1982, A. Olexa [leg.]", 2 spec.; "Syria, Maloulla, 1720 m, 8.5.1982, A. Olexa [leg.]", 1 spec.; "Syria, Homs (Lacus), 6.5.1982, A. Olexa [leg.]", 1 spec.
Mediterranean species, known from Cyprus, Greece, Egypt, Iraq, Lebanon, Palestina, Syria, Tunisia, Turkey and Uzbekistan.

Thorictus seriesetosus seriesetosus Fairmaire, 1870
Material examined. Algeria: "Iglu, 12.4.1988, A. Olexa [leg.]", 19 spec.
Nominotypical subspecies known only from Algeria.

Thorictus seriesetosus tritomentosus John, 1965
Material examined. Morocco: "Maroc, Agdz, 8.5.1991, A. Olexa [leg.]", 8 spec. All specimens determined A. Olexa as *T. seriesetosus*, J. Háva revid.
Subspecies known only from Morocco.

Thorictus orientalis Peyron, 1857 species group

Thorictus dimidiatus Peyron, 1857
Material examined. Syria: "Syria, Maloulla, 1720 m, 8.5.1982, A. Olexa [leg.]", 2 spec.
Species known from Cyprus, Greece, Egypt, Israel, Syria and Turkey.

Thorictus grandicollis grandicollis Germar, 1842
Material examined. Algeria: "Algeria, Tipasa [36°35′N 2°29′E], 27-28.5.1984, A. Olexa [leg.]", 1 spec.; **Armenia:** "Armenia, Parpi, 6.[19]73, A. Olexa [leg.]", 4 spec.; "Armenia, Arzni [10 km N of Yerevan, 40°18′N 44°36′E], 6.[19]73, A. Olexa [leg.]", 1 spec.; **Greece:** "Creta, Omalos (Lefka Ora) [Khánia district, 35°20′N 23°54′E], 27.5.-1.6.[19]80, Bílý, Brodský lgt.", 1 spec.; **Tunisia:** "Tunis, Monastir [Al Munastir, 35°47′N 10°50′E], 3-4.6.1982, A. Olexa [leg.]", 6 spec.
Nominotypical subspecies known from Algeria, Croatia, Egypt, France, Greece, Italy, Malta, Morocco, Portugal, Russia (European part), Spain, Tunisia and Turkey. First records from Armenia.

Thorictus koenigi Reitter, 1887
Material examined. Uzbekistan: "Uzbekistan, Samarkand [39°40′N 66°57′E], 26.4.1975, A. Olexa [leg.]", 2 spec.; "Uzbekistan, Samarkand [39°40′N 66°57′E], 20.4.1972, A. Olexa [leg.]", 1 spec.; "Uzbekistan, Aktaš [Aktash], 6-7.5.1975, A. Olexa [leg.]", 1 spec.; "Uzbekistan, Aman Kutan (Sam.) [35 km S of Samarkand, 39°19′N 66°57′E], 26.4.1975, A. Olexa [leg.]", 20 spec.
Species known from Turkmenistan and Uzbekistan.

Thorictus mauritanicus Lucas, 1846
Material examined. Algeria: "Algeria, Tlemcen [Tell Atlas, 34° 53′ N 1°19′W], 23-25.5.1984, A. Olexa [leg.]", 18 spec.

Species known from Algeria, Italy, Morocco, Spain, Syria and Tunisia.

Thorictus myrmecophilus Reitter, 1881
Material examined. Armenia: "Armenia, Gechard [Geghard, 20 km E of Yerevan, 40°9′N 44°48′E], 6.[19]73, A. Olexa [leg.]", 3 spec.; "Armenia, Gegard [Geghard, 20 km E of Yerevan, 40°9′N 44°48′E], 19.6.1979, A. Olexa [leg.]", 2 spec.
Species known only from Azerbaijan. First record from Armenia.
Remarks. The series of specimens originally labelled as *T. myrmecophilus* contains also additional specimens from Tajikistan (6 spec.), Turkmenistan (7 spec.), Kazakhstan (10 spec.) and Kirghizia (2 spec.). All of them were identified by A. Olexa as *T. myrmecophilus*, but habitually they include four different species. The identification of this species is difficult due to the lack of redescriptions of Reitter′s species from Central Asia. The type series has not been studied and John (1963, 1965) did not redescribe all Central Asian species in his revision of the genus *Thorictus*.

Thorictus petranus John, 1965
Material examined. Syria: "Syria, Palmyra env. [near Damascus], 25-27.4.1982, A. Olexa [leg.]", 3 spec.
Species known only from Jordan. First record from Syria.

TAXONOMIC PART

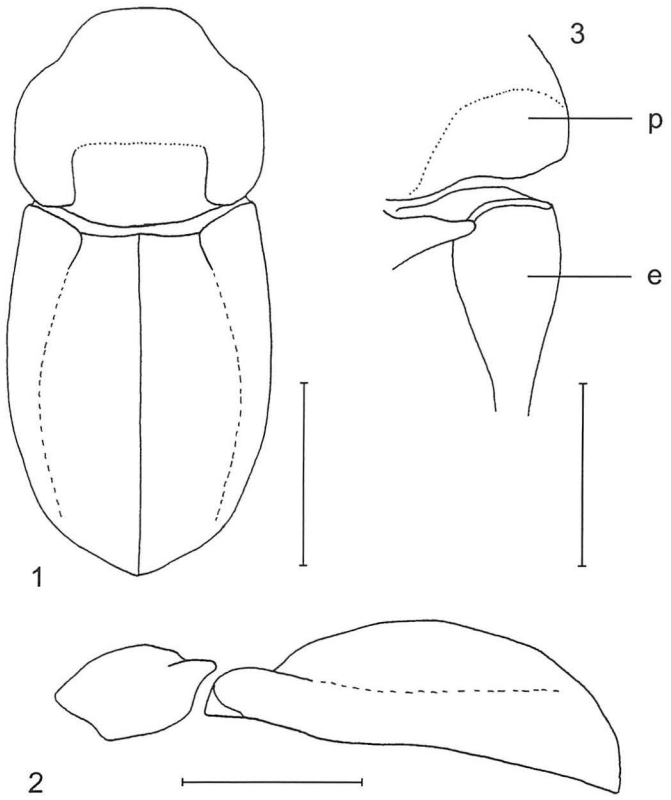
Thorictus olexai sp. n.
(Figs 1-3)

Type material. Holotype (♂): "Kazachst. [Kazakhstan], Kujuk, Kara Tau [Karatau, 44°8′N 68°13′E], Džamb. [Dzhambul, 42°54′N 71°21′E], 11.5.1981, A. Olexa [leg.]". Paratypes (4 spec., unsexed): the same data as holotype. Holotype and paratype specimens provided with the following label: "HOLOTYPE [or PARATYPE respectively] *Thorictus, olexai* sp. n., Jiří Háva det. 2005" [red label, printed]. Holotype and paratypes are deposited in the author's collection.
Description of holotype. Measurements: TL 1.4 mm, EW 0.8 mm. Body (Fig. 1, 2) small, brown, covered by very short yellow setae on dorsal surface and short yellow setae on ventral surface. Head finely punctate with very short yellow setae. Labial palpi entirely brown. Antennae brown, with 11 antennomeres, antennal club compact, with 3 antennomeres. Pronotum as finely punctate as head, covered by short yellow setation. Lateral margin of pronotum very finely dentate. Pronotum in posterior part near scutellum with two large bumps. Posterior pronotal angles ventrally without long yellow setation (Fig. 3). Scutellum not visible in dorsal view. Each elytron in anterior part near scutellum with one large bump. Elytra very finely punctate, bump with foveate-reticulate punctures. Epipleuron finely punctate, anterior angles without setation. Prosternum finely punctate. Mesosternum with foveolate punctures. Metasternum finely punctate. Legs brown, covered by yellow setae. Visible abdominal sternites very finely punctate, covered by very short yellow setae. Aedeagus not studied.
Variability. Measurements of paratypes: TL 1.2-1.4 mm, EW 0.6-0.8 mm.

Differential diagnosis. *Thorictus olexai* sp. n. belongs to the *T. orientalis* species group. The group is characterized by a narrow shape of the pronotum. *Thorictus olexai* sp. n. is habitually similar to *T. obenbergeri* John, 1965, but it differs by the large bumps on the posterior part of pronotum and large bumps on the anterior part of elytron near scutellum, by the shape of the head and by the pubescence on the ventral part of the pronotum.

- Posterior part of pronotum and anterior part of elytron with large bumps; ventral part of pronotum and epipleuron without setation; lateral margins of head posteriorly of eyes triangular in dorsal view, markedly elevated; Kazakhstan. ..... *T. olexai* sp. n.
- Posterior part of pronotum and anterior part of elytron without large bumps; ventral part of pronotum and epipleuron with long setation; lateral margins of head posteriorly of eyes rounded in dorsal view, slightly elevated; Armenia, Azerbaijan. ..... *T. obenbergeri* John, 1965

Name derivation. Patronymic, dedicated to the excellent Czech coleopterologist and collector of the new species, Aldo Olexa (Prague).



Figs 1-3. *Thorictus olexai* sp. n.: 1 – habitus, dorsal view; 2 – habitus, lateral view; 3 – pronotum and epipleuron, ventral view (p = pronotum, e = epipleuron). (scale for Figs 1, 2 = 0.5 mm; for Fig. 3 = 0.25 mm)
Obr. 1-3. *Thorictus olexai* sp. n.: 1 – habitus, dorsální pohled; 2 – habitus, pohled z boku; 3 – štít a epipleuron, ventrální pohled (p = pronotum, e = epipleuron). (měřítko pro obr. 1, 2 = 0,5 mm; pro obr. 3 = 0,25 mm)

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SOUHRN

Práce předkládá údaje ze sbírky kožojedovitých brouků (Dermestidae) českého entomologa Aldy Olexy, čítající ca. 900 exemplářů a recentně deponované ve sbírce autora. Obsahuje Thorictini, rodu *Thorictus* Germar, 1834, a to o 207 autorem determinovaných exeplářích v 16 (resp. 20, viz poznámka u druhu *T. myrmecophilus* ve smyslu nutnosti tyto exempláře dále zrevidovat) druzích, jejichž seznam je uveden v abecedním pořadí. Faunistické údaje jsou doslovným přepisem údajů z lokalitních štítků s upřesňujícími doplňky autora v hranatých závorkách.

Následující druhy jsou poprvé hlášeny ze států, uvedených vždy za jménem druhu: *Thorictus castaneus castaneus* Germar, 1834 (Maroko); *T. ehlersii therondi* Chobaut, 1924 (Maroko); *T. foreli* Wasmann, 1894 (Maroko); *T. grandicollis grandicollis* Germar, 1842 (Arménie); *T. myrmecophilus* Reitter, 1881 (Arménie); *T. petranus* John, 1965 (Sýrie).

V článku je popsán nový druh *Thorictus olexai* sp. n. z Kazachstánu; je pojmenován na počest Aldy Olexy, který tento nový druh sbíral. Nový druh patří do skupiny druhů *T. orientalis*, která se vyznačuje úzkým štítem. Nový druh je habituelně nejbližší druhu *T. obenbergeri* John, 1965, od kterého se liší velkými „boulemi" na štítu a krovkách, tvarem hlavy a chloupkováním spodní strany štítu a epipleury. Aedeagus není studován z důvodu morfologické variability.

*(Updates available at www.dermestidae.wz.cz).