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An annotated checklist of Glaphyridae (Coleoptera: Scarabaeidae) of Iran

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A b s t r a c t : The fauna of Iranian Glaphyridae (Coleoptera: Scarabaeoidea) is summarized in this paper. In total two subfamilies (Amphicominae and Glaphyrinae) and 62 species and subspecies within three genera *Eulasia* TRUQUI (29 taxa), *Pygopleurus* MOTSCHULSKY (19 taxa) and *Glaphyrus* LATREILLE (14 taxa) are listed. *Pygopleurus scutellatus* BRULLÉ, 1832 is a doubtful species for the fauna of Iran.

K e y w o r d s : Coleoptera, Scarabaeoidea, Glaphyridae, checklist, Iran.

Introduction

The superfamily Scarabaeoidea is one of the largest subdivisions of beetles with an estimated 35,000 species worldwide (GREBENNICKOV & SCHOLTZ 2004). Nine families, Geotrupidae, Passalidae, Trogidae, Glaresidae, Lucanidae, Ochodaeidae, Hybosoridae, Glaphyridae and Scarabaeidae constitute the superfamily Scarabaeoidea (NIKODÝM & BEZDEK 2016). The family Glaphyridae MACLEAY, 1819 is a relatively small group of Scarabaeoidea, currently comprising 250 species and subspecies in six genera, mainly found in the Old World (LI et al. 2011; NIKODÝM & BEZDEK 2016; MONTREUIL 2017). Most extant glaphyrids are restricted to the Western Palaearctic area, especially around the Mediterranean Basin and in the Middle East region (MEDVEDEV 1960; NIKOLJAEV et al. 2011). There are only nine species within a single endemic genus, *Lichnanthe* Burmeister, 1844 in Nearctic region (CARLSON 2002; NIKOLJAEV et al. 2011). The fossil species of the Glaphyridae are placed into four genera and 14 species (YAN et al. 2012). Larvae are free-living in sandy areas (riparian and coastal dunes) where they feed on decaying leaf litter and detritus that is layered in the sand (CARLSON 2002; MAWLOOD et al. 2016b). Adults are active diurnal fliers that hover around flowers and foliage with a noticeable setose and metallic-reflecting body surface. Some species superficially resemble wasps or bees with colorful setal bands on their bodies (CARLSON 2002; LI et al. 2011).

Iran occupies a large part of the Iranian plateau, and covers an area of 1,623,779 km². Climatologically, Iran is a predominantly arid and semi-arid country, but the northern slopes of the Alburz ranges and the Caspian lowland receive 800 to 2000 mm annual rainfall, making them the most humid parts of the country. The Dasht-e Kavir and Dasht-e Lut deserts are the driest areas with an annual precipitation of less than 150 mm. The highlands receive between 250 and 800 mm (ZEHZAD et al. 2002). The aim of this paper is cataloguing of all the data on Iranian Glaphyridae.

Materials and Methods

All available published data on the distribution of Glaphyridae (Coleoptera: Scarabaeoidea) in Iran are summarized by provinces shown in figure 1. Genera and species are listed alphabetically. The following data are included in the catalogue for each species: (1) valid scientific name, (2) junior synonym(s) used in literature about Iran or frequently used synonyms, (3) distribution in Iran - published Iranian records by provinces (arranged in alphabetical order of Iranian province names) and the relevant references (in chronological order), (4) short information on general distribution. When specific data about local distribution in Iran are lacking in a reference, the mention "Iran (no locality cited)" is used. Locality data reported from "Persien", however, was retained because it is synonym of Iran.

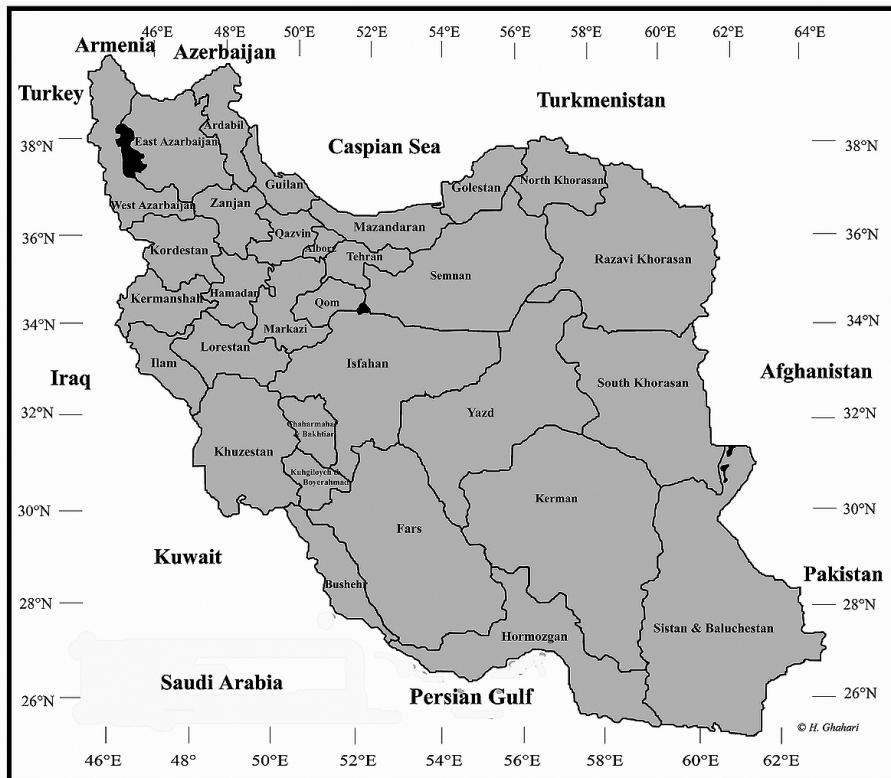


Fig. 1: Map of Iran with boundaries of provinces.

The following abbreviations and depositories are used in the text:

env., eoj., vic.; environs;

C: Central; E: Eastern; NE: Northeastern; NW: Northwestern; S: Southern; W: Western;
 lgjt.: legit (=collector):

Mts : mountains.

vill · village ·

MNC: Collection Milan Nikodým, Roztoky, Czech Republic;
MNHN: Muséum d'Histoire Naturelle, Paris, France.

Results

Totally 62 Glaphyridae species and subspecies from 3 genera, *Eulasia* TRUQUI (29 taxa), *Pygopleurus* MOTSCHULSKY (19 taxa) and *Glaphyrus* LATREILLE (14 taxa) are listed in this paper.

Superfamily Scarabaeoidea LATREILLE, 1802

Family Glyptidae MACLEAY, 1819

Subfamily Amphicomatinae BLANCHARD, 1845

Genus *Eulasia* TRUQUI, 1848

Subgenus *Eulasia* TRUQUI, 1848

***Eulasia (Eulasia) arctos arctos* PALLAS, 1781**

Scarabaeus arctos PALLAS, 1781; *Amphicoma chloridicollis* MOTSCHULSKY, 1845; *Amphicoma faldermanni* REITTER, 1903; *Amphicoma subfasciata* REITTER, 1903; *Eulasia (Eulasia) faldermanni* (REITTER, 1903).

Distribution in Iran: "Persien" (original description) (REITTER 1903 as *E. (Eulasia) faldermanni*), Alborz (BARARI et al. 1998 as *A. arctos*).

General distribution: Armenia, Georgia, Turkey (NIKODÝM & BEZDEK 2006, 2016), Russia (South European Territory) (NIKODÝM & BEZDEK 2016).

Comments: This species is known for Iran by historical data only. Reliable material is not available, but presence in Iran is not excluded.

***Eulasia (Eulasia) arctos armeniaca* REITTER, 1890**

Amphicoma arctos armeniaca REITTER, 1890.

Distribution in Iran: Fars (ZAIKI 1976, MODARRES AWAL 1997 as *A. arctos armeniaca*).

General distribution: Armenia, Turkey (NIKODÝM & BEZDEK 2006, 2016).

Comments: This species is well known from Armenia and E Turkey. We can assume presence in NW Iran but its record from Fars (south of Iran) needs confirmation; the old material from Fars is not available to us.

***Eulasia (Eulasia) aurantiaca* (REITTER, 1890)**

Amphicoma arctos aurantiaca REITTER, 1890.

Distribution in Iran: Fars (ZAIKI 1976, MODARRES AWAL 1997 as *A. arctos aurantiaca*), Hamadan, Lorestan, West Azarbaijan (MONTREUIL 2017), Kermanshan, Kordestan (BARAUD 1990; MONTREUIL 2017).

General distribution: Iran (REITTER 1903; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Turkey (NIKODÝM & BEZDEK 2006, 2016).

New material examined: Lorestan province, 22 km E Dorud, vic. Saravand, 33°23'N 49°11'E, 2300-2500 m, 9.-10.VI.1997, A. Hofmann & P. Kautt lgt. (1♂, 1♀, MNC); West Azarbaijan province, 60 km NE of Takab, 11.06.2009, Skoupý lgt. (3♂♂, 3♀♀, MNC); Lorestan province, Zagros Mts., Aligudarz ej., 03.06.2010, Jaroslav Dalihod lgt. (3♂♂, 2♀♀, MNC).

***Eulasia (Eulasia) azarbaijanica* (PETROVITZ, 1980)**

Amphicoma azarbaijanica PETROVITZ, 1980.

Distribution in Iran: Alborz, Guilan, Qazvin, Tehran, Zanjan (MONTREUIL 2017), East Azarbaijan (PETROVITZ 1980; BARAUD 1990), Golestan (BUNALSKI et al. 2014), Razavi Khorasan (MODARRES AWAL 2006), West Azarbaijan (MITTER 2001; MONTREUIL 2017).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007).

New material examined: Guilan province, southeast Rudbar env., 1.6.2001, Orszulík lgt. (1♂, MNC); West Azarbaijan province, Khoy, 30 km W, 38°40'N 44°39'E, 963 m, 06.-07.2000, Milan Rozsíválek lgt. (1♂, MNC); Qazvin province, 3 km NE Razjerd, Paradis garden (stream valley, at light), 36°20'N 50°10'3"E, 1630 m, 13.V.2006, Jiří Hájek & Pavel Chvojka lgt. (1♂, 1♀, MNC).

***Eulasia (Eulasia) bodemeyeri* (PETROVITZ, 1965)**

Amphicoma bodemeyeri PETROVITZ, 1965.

Distribution in Iran: Alborz, Fars, Hamadan, Kerman, Zanjan (MONTREUIL 2017), Isfahan (BARAUD 1990; MONTREUIL 2017), Lorestan (PETROVITZ 1965; BARAUD 1990), Tehran (BARAUD 1990).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Lorestan province, Bodemeyer lgt. (2♂♂, MNC); Hamadan province, Avaj env., 29.5.2010, Skoupý lgt. (2♂♂, MNC); Isfahan province, 40 km SE Aligudarz, 35°17'N 50°06'E, 2254 m 31.5.2010 (1♂, MNC); Hamadan province, Hamadan env., Aji Sedr, 14.5.1999, Orszulík lgt. (1♂, 2♀♀, MNC).

***Eulasia (Eulasia) bombyliformis bombyliformis* (PALLAS, 1781)**

Scarabaeus bombyliformis PALLAS, 1781; *Amphicoma erezonica* PETROVITZ, 1972; *Amphicoma ochraceipennis* MÉNÉTRIÉS, 1832.

Distribution in Iran: Ardabil, Golestan, Mazandaran (MONTREUIL 2017), Lorestan (FARAHBAKHSH 1961, MODARRES AWAL 1997 as *A. bombyliformis*), Razavi Khorasan (MODARRES AWAL 2006; MONTREUIL 2017), West Azarbaijan (BARAUD 1968 as *A. (Eulasia) bombyliformis*; FARAHBAKHSH 1961, MODARRES AWAL 1997 as *A. bombyliformis*).

General distribution: Armenia, Azerbaijan, Georgia, Kazakhstan, Russia (South European Territory), Turkey, Turkmenistan, Ukraine (Nikodým & Bezdeček 2006, 2016), Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

H o s t r e c o r d s : Roses and other ornamental plants (FARAHBAKHS 1961; MODARRES AWAL 1997); larvae feed on roots, and adults feed on stamens and petals of flowers (FARAHBAKHS 1961).

***Eulasia (Eulasia) chrysopyga* (FALDERMANN, 1835)**

Amphicoma chrysopyga FALDERMANN, 1835; *Trichopleurus pallidopilosus* MOTSCHULSKY, 1860.

D i s t r i b u t i o n i n I r a n : Ardabil, East Azarbaijan, Guilan (MONTREUIL 2017), Mazandaran (GHAHARI et al. 2015b).

G e n e r a l d i s t r i b u t i o n : Armenia, Azerbaijan, Georgia, Turkey (NIKODÝM & BEZDEK 2006, 2016; MITTER 2008), Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; MITTER 2008; BUNALSKI et al. 2014).

***Eulasia (Eulasia) diadema* (REITTER, 1890)**

Amphicoma diadema REITTER, 1890; *Amphicoma diademata* REITTER, 1903.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

G e n e r a l d i s t r i b u t i o n : Iran, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Eulasia (Eulasia) kordestana* MITTER, 2004**

D i s t r i b u t i o n i n I r a n : Kordestan, West Azarbaijan, Zanjan (MITTER 2004).

G e n e r a l d i s t r i b u t i o n : Endemic to Iran (NIKODÝM & BEZDEK 2016).

N e w m a t e r i a l e x a m i n e d : Kordestan province, 3 km E of Marad-Abad, 47°19'14"N 35°03'49"E, 2200 m, 26.4.2001, Fabián & Vig lgt. (8♂♂, 4♀♀, MNC).

***Eulasia (Eulasia) kuschakevitschi* BALLION, 1871**

Amphicoma kuschakevitschi BALLION, 1871; *Amphicoma auricollis* REITTER, 1890; *Amphicoma belia* REITTER, 1900; *Amphicoma clypeata* SOLSKY, 1876; *Amphicoma dubia* SOLSKY, 1876; *Amphicoma schneideri* REITTER, 1903; *Amphicoma viridicollis* REITTER, 1890.

D i s t r i b u t i o n i n I r a n : Northern Khorasan (SAMIN et al. 2016).

G e n e r a l d i s t r i b u t i o n : Afghanistan, Kazakhstan, Kyrgyzia, Tajikistan, Uzbekistan (NIKODÝM & BEZDEK 2006, 2016).

***Eulasia (Eulasia) naviauxi* (BARAUD, 1971)**

Amphicoma naviauxi BARAUD, 1971.

D i s t r i b u t i o n i n I r a n : Fars (BARAUD 1971, 1990; NIKODÝM & KRAL 1998; MONTREUIL 2017), Sistan & Baluchestan (MONTREUIL 2017).

G e n e r a l d i s t r i b u t i o n : Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

N e w m a t e r i a l e x a m i n e d : Fars province, Pasargad env., ca 1800 m, 29.4.1996, David Král lgt. (7♂♂, 6♀♀, MNC); Fars province, Zagros Mts., Dasht Arjan, 7 km SSE, 29°38'05"N 51°54'21"E, 2100 m, 5.-6.5.2015, Vít Kubáň lgt. (1♂, 2♀♀, MNC).

***Eulasia (Eulasia) nitidicollis* (REICHE, 1862)**

Amphicoma nitidicollis REICHE, 1862.

Distribution in Iran: Fars (ZAIKI 1976; MODARRES AWAL 1997 as *A. nitidicollis*), Hamadan, Ilam, Kermanshah, Khuzestan, Kordestan (MONTREUIL 2017), Lorestan (NIKODÝM & KRAL 1998), Zanjan (BARAUD 1990).

General distribution: Israel, Jordan, Lebanon, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016).

Comments: *Eulasia (E.) nitidicollis* is verified for Iran; it is not listed in the Catalogue of Palaearctic Coleoptera, NIKODÝM & BEZDEK (2006, 2016).

***Eulasia (Eulasia) nitidinatis* BARAUD, 1990**

Distribution in Iran: Fars, West Azarbaijan (MITTER 2001), Tehran, Zanjan (BARAUD 1990).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Lorestan province, Zagros Mts., 30 km W of Khorram-Abad, Gholaman vill. env., 1000 m, 6.-7.5.1996, David Král lgt. (5♂♂, 5♀♀, MNC); Lorestan province, Zagros Mts., Dorud, 7-10 km SW, 33°25'10"N, 48°59'11"-49°02'09"E, 1450-1750 m, 10.-11.5.2016, Vít Kubán lgt. (3♂♂, 2♀♀, MNC).

***Eulasia (Eulasia) persidis* BARAUD, 1990**

Distribution in Iran: Fars (BARAUD 1990; MITTER 2001).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Fars province, vic. Eqlid, 30°54'N 52°44"E, 2300 m, 25.V.1997, A. Hofmann & P. Kautt lgt. (2♂♂, 6♀♀, MNC); Fars province, Zagros Mts., Shiraz - Yasuj, 14.05.-15.2009, Jaroslav Dalihod lgt. (3♂♂, MNC).

***Eulasia (Eulasia) praeusta* (CHAMPENOIS, 1896)**

Amphicoma praeusta CHAMPENOIS, 1896; *Amphicoma clypealis* PETROVITZ, 1972.

Distribution in Iran: East Azarbaijan (BARAUD 1990).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Turkey (NIKODÝM & BEZDEK 2006, 2016).

Subgenus *Rudeulasia* BARAUD, 1990

***Eulasia (Rudeulasia) bocquilloni* (ZAITZEV, 1923)**

Amphicoma bocquilloni ZAITZEV, 1923.

Distribution in Iran: Tehran (ZAITZEV 1923).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

***Eulasia (Rudeulasia) carinata* BARAUD, 1990**

Distribution in Iran: Fars (NIKODÝM & KRAL 1998), Kermanshah (BARAUD 1990; MONTREUIL 2017).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Iraq (NIKODÝM & BEZDEK 2006, 2016), Syria (KEITH 2005).

New material examined: Fars province, Zagros Mts., Abshar vill. env., ca 1000 m, 2.-3.5.1996, David Král lgt. (3♂, 2♀, MNC).

***Eulasia (Rudeulasia) chalybaea chalybaea* (FALDERMANN, 1835)**

Amphicoma chalybaea chalybaea FALDERMANN, 1835.

Distribution in Iran: East Azarbaijan (BARAUD 1968 as *Amphicoma (Eulasia) chalybaea*), Hamadan, Ilam, Kermanshah, Kordestan, Markazi, Qazvin, Tehran, Zanjan (MONTREUIL 2017).

General distribution: Armenia, Azerbaijan (NIKODÝM & BEZDEK 2006, 2016), Iran (REITTER 1903; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Turkmenistan (NIKODÝM & BEZDEK 2016).

New material examined: Isfahan province, 20 km W of Shahreza, 24.5.2008, J. Simandl lgt. (1♂, MNC); Kordestan province, Kamyaran env. 2.6.2010, Skoupý lgt. (1♂, 3♀, MNC); West Azarbaijan province, Serou, 37°7'N 44°62'E, 1650 m, 28.-30.5.2010, Walter Grosser lgt. (1♂, MNC); Kordestan province, 5 km N of Kamyaran, 34°53'N 46°58'E, 2150 m, 02.06.2010, Machalík lgt. (1♂, 1♀, MNC); Kermanshah province, Bakhtaran (=Kermanshah) env., 13.5.1999, Orszulík lgt. (1♀, MNC).

***Eulasia (Rudeulasia) fastuosa* REITTER, 1890**

Amphicoma fastuosa REITTER, 1890; *Amphicoma heydeni* REITTER, 1890; *Amphicoma reitteri* GANGLBAUER, 1905; *Amphicoma semicyanea* REITTER, 1890.

Distribution in Iran: Kermanshah (SAMIN et al. 2016).

General distribution: Greece, Israel, Lebanon, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Eulasia (Rudeulasia) genei* TRUQUI, 1848**

Distribution in Iran: Fars (ZAIKI 1976; NIKODÝM & KRAL 1998; MODARRES AWAL 1997 as *Amphicoma genei*; MITTER 2001; ULIANA & SABATINELLI 2010), Gilan, Ilam, Kermanshah (ULIANA & SABATINELLI 2010), Lorestan (NIKODÝM & KRAL 1998; ULIANA & SABATINELLI 2010).

General distribution: Iran (GIACHINO 1982; BARAUD 1990; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014; NIKODÝM & BEZDEK 2016), Iraq, Israel, Jordan, Lebanon, Syria (NIKODÝM & BEZDEK 2006, 2016), Turkey (NIKODÝM & BEZDEK 2016).

***Eulasia (Rudeulasia) papaveris* (STURM, 1843)**

Amphicoma papaveris STURM, 1843; *Amphicoma cupripennis* KOLLAR, 1843; *Amphicoma dominula* REITTER, 1890; *Amphicoma testaceipennis* CHAMPENOIS, 1896.

Distribution in Iran: Iran (no locality cited) (REITTER 1903; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

General distribution: Iran, Iraq, Israel, Jordan, Lebanon, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Eulasia (Rudeulasia) pulchra kurdistana* (PETROVITZ, 1968)**

Amphicoma pulchra kurdistana PETROVITZ, 1968.

Distribution in Iran: Hamadan, Ilam, Kerman, Kermanshah, Kordestan, Qazvin (MONTREUIL 2017).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014; BUNALSKI et al. 2014), Turkey (NIKODÝM & BEZDEK 2006, 2016).

New material examined: Kermanshah province, 40 km NW Kermanshah, 20.5.1975, 1500 m, Holzschuh & Ressl lgt. (1♂, MNC).

***Eulasia (Rudeulasia) pulchra pulchra* (REITTER, 1890)**

Amphicoma pulchra pulchra REITTER, 1890.

Distribution in Iran: Fars (ZAIRI 1976; MODARRES AWAL 1997 as *A. pulchra*), Lorestan (NIKODÝM & KRAL 1998).

General distribution: Armenia, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (BARAUD 1990; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Lorestan province, Zagros Mts., 30 km W Khorram-Abad, Gholaman vill. env., 1000 m, 6.-7.5.1996, David Král lgt. (3♂♂, 3♀♀, MNC); West Azerbaijan province, 40 km W of Mahabad, 8.6.2009, Skoupý lgt. (1♂, MNC); West Azerbaijan province, Likbin env., 36°44'N 45°30'E, 2200 m, 06.06.2010, Machalík lgt. (1♀, MNC).

***Eulasia (Rudeulasia) speciosa* (CHAMPENOIS, 1900)**

Amphicoma speciosa CHAMPENOIS, 1900.

Distribution in Iran: Guilan (GHAHARI et al. 2015b).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Eulasia (Rudeulasia) straussi* (GANGLBAUER, 1905)**

Amphicoma straussi GANGLBauer, 1905.

Distribution in Iran: Hamadan, Kermanshah, West Azerbaijan (MONTREUIL 2017), Lorestan (NIKODÝM & KRAL 1998; MONTREUIL 2017).

General distribution: Iran (BARAUD 1990; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Iraq, Turkey (NIKODÝM & BEZDEK 2006, 2016).

New material examined: Lorestan province, Zagros Mts., 30 km W Khorram-Abad, Gholaman vill. env. 6.-7.5.1996, 1000 m, David Král lgt. (6♂♂, 6♀♀, MNC).

***Eulasia (Rudeulasia) zaitzevi* (BOGATCHEV, 1947)**

Amphicoma zaitzevi BOGATCHEV 1947.

Distribution in Iran: Kordestan (BOGATCHEV 1947; MODARRES AWAL 1997 as *A. zaitzevi*).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

Subgenus *Solskiola* SEMENOV, 1903

Eulasia (Solskiola) analis (SOLSKY, 1876)

Amphicoma analis SOLSKY, 1876.

Distribution in Iran: Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

General distribution: Afghanistan, Iran, Tadzhikistan, Turkmenistan, Uzbekistan (NIKODÝM & BEZDEK 2006, 2016).

Subgenus *Trichopleurus* MOTSCHULSKY, 1860

Eulasia (Trichopleurus) vittata lineata (FALDERMANN, 1835)

Amphicoma vittata lineata FALDERMANN, 1835; *Amphicoma africana* REITTER, 1890; *Amphicoma chrysura* REITTER, 1890; *Amphicoma decorata* REITTER, 1890; *Amphicoma lateritia* REITTER, 1903; *Amphicoma syriaca* KOLLAR, 1843.

Distribution in Iran: Kermanshah (PETROVITZ 1963).

General distribution: Armenia, Egypt, Iraq, Israel, Jordan, Lebanon, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; MITTER 2008; BUNALSKI et al. 2014).

New material examined: Kordestan province, Kamyaran env. 2.6.2010, Skoupý lgt. (2♂♂, MNC).

Eulasia (Trichopleurus) vittata persica PETROVITZ, 1963

Amphicoma vittata persica PETROVITZ, 1963.

Distribution in Iran: "Persien" (original description) (PETROVITZ 1963), East Azarbaijan, Hamadan, Isfahan, Kermanshah, Kordestan, Qazvin, West Azarbaijan, Zanjan (MONTREUIL 2017).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

Genus *Pygopleurus* MOTSCHULSKY, 1860

Pygopleurus anahitae MITTER, 2001

Distribution in Iran: Fars, Kuhgiloyeh & Boyerahmad (MONTREUIL 2017), Kordestan, Lorestan (KEITH & ULIANA 2008), West Azarbaijan (MITTER 2001; KEITH & ULIANA 2008).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

***Pygopleurus banghaasi* (REITTER, 1895)**

Amphicoma banghaasi REITTER, 1895; *Amphicoma coerulea* PETROVITZ, 1958; *Amphicoma coeruleipennis* PETROVITZ, 1958; *Amphicoma cuprea* PETROVITZ, 1958; *Amphicoma mixta* BRANCSIK, 1899.

Distribution in Iran: Golestan (GHAHARI et al. 2015b; MONTREUIL 2017), Mazandaran (BARAUD 1968 as *A. (Pygopleurus) banghaasi*), Northern Khorasan (MITTER 2001).

General distribution: Iran (PETROVITZ 1963; BARAUD 1989; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Turkmenistan (NIKODÝM & BEZDEK 2006, 2016).

***Pygopleurus basalis* (REITTER, 1890)**

Amphicoma basalis REITTER, 1890; *Amphicoma purpurea* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958.

Distribution in Iran: Lorestan (BARAUD 1989).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014), Iraq, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Pygopleurus cyaneoviolaceus cyaneoviolaceus* MOTSCHULSKY, 1860**

Distribution in Iran: Ardabil, Guilan (MONTREUIL 2017).

General distribution: Azerbaijan, Georgia (NIKODÝM & BEZDEK 2006), Iran (MONTREUIL & SERRI 2007; BUNALSKI et al. 2014; NIKODÝM & BEZDEK 2016).

***Pygopleurus cyanescens* (REITTER, 1890)**

Amphicoma cyanescens REITTER, 1890.

Distribution in Iran: East Azarbaijan (BARAUD 1968 as *A. (Pygopleurus) cyanescens*; MONTREUIL 2017), Guilan (GHAHARI et al. 2015b), Hamadan, Kermanshah, Qazvin (MONTREUIL 2017), Zanjan (NIKODÝM & KRAL 1998).

General distribution: Armenia, Azerbaijan, Iraq, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Kordestan province, Sanandaj, 1700 m, 27.4.2001, Fabián & Károly lgt. (1♂, MNC); Kordestan province, Zagros Mts., 30 km S of Sanandaj, Noshor (3-5 km E), 1400 m, 14.-15.5.2016, Vít Kubáň lgt. (1♀, MNC).

***Pygopleurus deuvei* MONTREUIL & SERRI, 2007**

Distribution in Iran: Guilan (MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

General distribution: Endemic to Iran (MONTREUIL & SERRI 2007; NIKODÝM & BEZDEK 2016).

***Pygopleurus distinctus* (FALDERMANN, 1835)**

Amphicoma distincta PETROVITZ, 1958; *Amphicoma persica* GANGLBAUER, 1905; *Amphicoma violacea* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958.

Distribution in Iran: Ilam (MONTREUIL 2017).

General distribution: Armenia, Iraq, Turkey (NIKODÝM & BEZDEK 2006, 2016), Azerbaijan, Russia (South European Territory) (NIKODÝM & BEZDEK 2016), Iran (PETROVITZ 1963; BARAUD, 1989; NIKODÝM & BEZDEK 2006; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

***Pygopleurus gordyenensis* (PETROVITZ, 1971)**

Amphicoma gordyenensis PETROVITZ, 1971.

Distribution in Iran: Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

General distribution: Armenia, Azerbaijan, Iran, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Pygopleurus immundus* (REITTER, 1903)**

Amphicoma immunda REITTER, 1903; *Amphicoma distinguenda* MUCHE, 1963; *Amphicoma violacea* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958.

Distribution in Iran: Iran (no locality cited) (PETROVITZ 1963; BARAUD 1989; NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

General distribution: Iran, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Pygopleurus koniae koniae* (PETROVITZ, 1958)**

Amphicoma koniae koniae PETROVITZ, 1958.

Distribution in Iran: Tehran (BARAUD 1990).

General distribution: Iran (BARAUD 1989; NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014), Turkey (NIKODÝM & BEZDEK 2006, 2016).

Comments: The record of *P. koniae* from Iran is based on a single old specimen (MNHN) that might be erroneously labeled. Thus this record needs to be confirmed (MONTREUIL 2017).

***Pygopleurus libanonensis* (PETROVITZ, 1958)**

Amphicoma libanonensis PETROVITZ, 1958; *Amphicoma rufa* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958.

Distribution in Iran: Kordestan (SAMIN et al. 2016).

General distribution: Israel, Lebanon, Syria, Turkey (NIKODÝM & BEZDEK 2006).

***Pygopleurus mardiensis* BARAUD, 1989**

Distribution in Iran: Guilan (MITTER 2001), Mazandaran (BARAUD 1989).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

New material examined: Mazandaran (Pol-zoghil, Dasut-nazír=Dasht-e Nazir), 29.4.1970, V. Bothmel lgt. (1♂, MNC). Mazandaran province, 30 km south Nowshahr, 1400 m, 3.-5.6.1976, Holzschuch & Ressel lgt. (1♂, 1♀, MNC). Mazandaran province, Chalus, Marzan-Abad, 28.4.1995, M. Kafka lgt. (1♂, 2♀♀, MNC). Golestan province, Karim-Ishan, 70 km NE Gombat-é-Kavuis (= Gonbad), 37°26'N 55°23'E, 4.-7.iv.1999, J. Kaláb lgt. (1♂, MNC). Mazandaran province, Alborz Mts. 800-0 m, N slopes Chalus env., 10.5.1996, David Král lgt. (1♂, MNC).

***Pygopleurus psilotrichius psilotrichius* (FALDERMANN, 1835)**

Amphicoma psilotrichia psilotrichia FALDERMANN, 1835; *Amphicoma aurigaster* REITTER, 1895; *Amphicoma cyanella* ZAITZEV, 1923; *Amphicoma nigripennis* CHAMPENOIS, 1896; *Amphicoma maculipennis* PETROVITZ, 1958; *Amphicoma violacea* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958.

Distribution in Iran: Alborz (BARARI et al. 1998), Ardabil, Kordestan, West Azarbaijan, Zanjan (MONTREUIL 2017), East Azarbaijan (BAROUGHI 1977 as *A. psilotrichia*; MODARRES AWAL 1997 as *A. psilotrichia*), Fars, Northern Khorasan (BARAUD 1968 as *A. (Pygopleurus) psilotrichius*), Golestan (KHORMALI et al. 2004; MONTREUIL 2017), Mazandaran (BARAUD 1968 as *A. (Pygopleurus) psilotrichius*; NIKODÝM & KRÁL 1998; MONTREUIL 2017), Razavi Khorasan (MODARRES AWAL 2006 as *A. psilotrichia*).

General distribution: Armenia, Georgia, Jordan, Syria, Turkey, Turkmenistan (NIKODÝM & BEZDEK 2006, 2016), Azerbaijan, Georgia, Russia (South European Territory), Ukraine (NIKODÝM & BEZDEK 2016), Iran (PETROVITZ 1963; BARAUD 1989; NIKODÝM & BEZDEK 2006; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

***Pygopleurus rapuzzii* KEITH & ULIANA, 2008**

Distribution in Iran: West Azarbaijan (KEITH & ULIANA 2008).

General distribution: Endemic to Iran (KEITH & ULIANA 2008; BUNALSKI et al. 2014; NIKODÝM & BEZDEK 2016).

***Pygopleurus rufovillosus rufovillosus* (REITTER, 1907)**

Amphicoma rufovillosa rufovillosa REITTER, 1907; *Amphicoma pompa* Petrovitz, 1963.

Distribution in Iran: Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

General distribution: Armenia, Georgia, Iran, Iraq, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Pygopleurus transcaucasicus* (PETROVITZ, 1962)**

Amphicoma transcaucasica PETROVITZ, 1962.

Distribution in Iran: Ardabil (MONTREUIL 2017), East Azarbaijan (SAMIN et al. 2016; MONTREUIL 2017).

General distribution: Armenia, Azerbaijan, Georgia, Turkey (NIKODÝM

& BEZDEK 2006, 2016), Russia (South European Territory), Turkmenistan (NIKODÝM & BEZDEK 2016).

Comments: *P. transcaucasicus* is verified for Iran; it is not listed in the Catalogue of Palaearctic Coleoptera, NIKODÝM & BEZDEK (2006, 2016).

***Pygopleurus tristis* (PETROVITZ, 1968)**

Amphicoma tristis PETROVITZ, 1968.

Distribution in Iran: Kordestan, West Azarbaijan (KEITH & ULIANA 2008).

General distribution: Iran (BARAUD 1989; BUNALSKI et al. 2014; NIKODÝM & BEZDEK 2016), Turkey (NIKODÝM & BEZDEK 2006).

***Pygopleurus vulpes* (FABRICIUS, 1781)**

Melolontha vulpes FABRICIUS, 1781; *Scarabaeus alopecias* PALLAS, 1781; *Amphicoma coeruleus* PETROVITZ, 1958; *Amphicoma griseovillosa* REITTER, 1903; *Melolontha hirta* FABRICIUS, 1781; *Amphicoma pyrrothrix* DOHRN, 1885; *Amphicoma rufa* PETROVITZ, 1958; *Amphicoma viridis* PETROVITZ, 1958; *Eulasia vulpecula* TRUQUI, 1848.

Distribution in Iran: Northern Iran (Caspian Sea area) (AFSHAR 1944, FARAHBAKHSH 1961, MODARRES AWAL 1997 as *Amphicoma vulpes* (FABRICIUS, 1781)).

General distribution: Albania, Montenegro, Serbia (NIKODÝM & BEZDEK 2016), Bulgaria, Greece, Kazakhstan, Macedonia, Moldavia, Romania, Russia (Central European Territory, South European Territory), Turkey, Ukraine (NIKODÝM & BEZDEK 2006, 2016).

Host records: Ox-eye and sometimes on cerasus, apple, apricot, cherry and sour-cherry (FARAHBAKHSH 1961; MODARRES AWAL 1997); larvae feed on roots, and adults feed on stamens and petals of flowers (FARAHBAKHSH 1961).

Comments: *Pygopleurus vulpes* has not been found in S of Caucasus (Armenia, Azerbaijan, Georgia) yet. Regarding Turkey, it is known from central regions and from Gevas as the easternmost place. Presence in Iran is not to be excluded, but mentioned older citations are needed to be confirmed by current material determination.

***Pygopleurus zagrosensis* NIKODÝM & KRÁL, 1998**

Distribution in Iran: Fars (KEITH & ULIANA 2008), Kuhgiloyeh & Boyerahmad (NIKODÝM & KRÁL 1998 (Holotype ♂, 2 paratypes ♂, 2 paratypes ♀, MNC); BEZDÉK & HÁJEK 2009), Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; MONTREUIL & SERRI 2007; BUNALSKI et al. 2014).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016).

Subfamily G l a p h y r i n a e W.S. MACLEAY, 1819

Genus *Glaphyrus* LATREILLE, 1802

Subgenus *Glaphyrus* LATREILLE, 1802

***Glaphyrus (Glaphyrus) calvaster* ZAITZEV, 1923**

Distribution in Iran: West Azarbaijan (MONTREUIL 2017).

General distribution: Armenia (NIKODÝM & BEZDEK 2006, 2016).

***Glaphyrus (Glaphyrus) cinnaberinus* SCHWEIGER, 1949**

Distribution in Iran: Kermanshan (SCHWEIGER 1949; NIKODÝM & KEITH 2007).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2016).

Comments: This species is known only upon the original description and assigned on the basis of it.

***Glaphyrus (Glaphyrus) festivus* MÉNÉTRIES, 1836**

Distribution in Iran: Lorestan (NIKODÝM & KRAL 1998).

General distribution: Armenia, Azerbaijan, Iraq, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (CHAMPENOIS 1903; MEDVEDEV 1960; NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014).

New material examined: West Azarbaijan province, 45 km south of Rezayeh (=Ourmieh), 1400 m, 22.6.1977, Holzschuh & Ressl lgt. (1♂, MNC).

***Glaphyrus (Glaphyrus) laufferi* REITTER, 1903**

Glaphyrus rufipennis GORY, 1884.

Distribution in Iran: Fars, Khuzestan, Sistan & Baluchestan (MONTREUIL 2017), Chaharmahal & Bakhtiari (REITTER 1903).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014).

New material examined: Khuzestan province, Choqa-Zanbil env. (Zikurat), ca 100 m, 5.-6.5.1996, David Král lgt. (1♂, MNC); S. Iran, Golshan env., 24.4.1977 (3♂♂, 1♀, MNC).

***Glaphyrus (Glaphyrus) luristanus* REITTER, 1903**

Distribution in Iran: Alborz, East Azarbaijan, Isfahan, Kermanshah, Kordestan, Tehran, Yazd, Zanjan (MONTREUIL 2017), Lorestan (REITTER 1903), Qazvin (YARMAND et al. 2012), Mazandaran (BUNALSKI et al. 2016), West Azarbaijan (SAMIN & SAKENIN 2015; MONTREUIL 2017).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014).

New material examined: Fars province, 20-25 km W Shiraz, 29°37'N 52°14'E, 1900 m, 27.V.1997, A. Hoffman & P. Kautt lgt. (2♂♂, 1♀, MNC); Lorestan province, Zagros Mts., Dorud eoij., 07.06.2010, Jaroslav Dalihod lgt. (3♂♂, MNC).

***Glaphyrus (Glaphyrus) micans micans* FALDERMANN, 1835**

Glaphyrus purpureus PIC, 1947; *Glaphyrus schelkownikovi* REITTER, 1903.

Distribution in Iran: Alborz, Ardabil, Fars, Isfahan, Kermanshah,

Khuzestan, Kordestan, Mazandaran, Yazd (MONTREUIL 2017), East Azarbaijan, Tehran (MODARRES AWAL 1997; MONTREUIL 2017), Guilan (BUNALSKI & GHAHARI 2015a).

General distribution: Armenia, Azerbaijan, Iraq, Syria, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (REITTER 1903; NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; MITTER 2008; BUNALSKI et al. 2014).

***Glaphyrus (Glaphyrus) muticus* REITTER, 1903**

Distribution in Iran: Fars (REITTER 1903; NIKODÝM & KEITH 2007), Qazvin (YARMAND et al. 2012).

General distribution: Endemic to Iran (NIKODÝM & BEZDEK 2006; BUNALSKI et al. 2014).

***Glaphyrus (Glaphyrus) onopordi* REITTER, 1903**

Distribution in Iran: Ilam, Kerman, Kuhgiloyeh & Boyerahmad, Sistan & Baluchestan (MONTREUIL 2017), Khuzestan (NIKODÝM & KRAL 1998; SABATINELLI et al. 2012; MONTREUIL 2017), West Azarbaijan (SABATINELLI et al. 2012).

General distribution: Iran (REITTER 1903; MEDVEDEV 1960; NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014), Iraq (NIKODÝM & BEZDEK 2006, 2016).

New material examined: Khuzestan province, Choqa-Zanbil env. (Zikurat), ca 100 m, 5.-6.5.1996, David Král lgt. (3♂♂, MNC).

***Glaphyrus (Glaphyrus) oxypterus* (PALLAS, 1771)**

Scarabaeus oxypterus PALLAS, 1771; *Scarabaeus uralensis* GMELIN, 1790; *Melolontha vittata* HERBST, 1790.

Distribution in Iran: East Azarbaijan (MONTREUIL 2017), Golestan (BUNALSKI et al. 2014; SAKENIN & SAMIN 2015), Northern Khorasan, Razavi Khorasan (MODARRES AWAL 2006).

General distribution: Azerbaijan (NIKODÝM & BEZDEK 2016), China (Northwest Territory), Kazakhstan, Russia (South European Territory) (NIKODÝM & BEZDEK 2006, 2016), Iran (REITTER 1903; NIKODÝM & KEITH 2007; NIKODÝM & BEZDEK 2016).

***Glaphyrus (Glaphyrus) sequensi* REITTER, 1903**

Distribution in Iran: Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

General distribution: Armenia, Iran, Turkey (NIKODÝM & BEZDEK 2006, 2016).

***Glaphyrus (Glaphyrus) superbus straussi* REITTER, 1903**

Distribution in Iran: West Azarbaijan (MONTREUIL 2017).

General distribution: Armenia, Azerbaijan, Turkey (NIKODÝM & BEZDEK 2006, 2016), Iran (REITTER 1903; NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014).

New material examined: Razavi Khorasan province, Mashhad, 2.6.1971, C. Holzschuh lgt. (2♂♂, MNC); Zanjan province, Mahneshan-Zanjan road, Lulak-Abad vill. env. 2240 m, 10.VI.2000, M. Kalabza lgt. (5♂♂, 1♀, MNC); Mazandaran province, Abe-Garm Damavand, 15.-16.6.2005, F. Pavel lgt. (2♂♂, MNC). Lorestan province, Zagros Mts., Dorud ej., 16.06.2011, Jaroslav Dalihod, lgt. (1♂, 1♀, MNC); Golestan province, Golestan National Park, 70 km SE Minudasht, 37°26'N 55°09'E, 1050 m, 12.6.2010, Walter Grosser lgt. (4♂♂, 1♀, MNC).

***Glaphyrus (Glaphyrus) superbus superbus* CHAMPENOIS, 1898**

Glaphyrus incertus PIC, 1947.

Distribution in Iran: Alborz, Isfahan, Mazandaran, Tehran (MONTREUIL 2017), Fars (ZAIRI 1976; MODARRES AWAL 1997), Northern Khorasan (MODARRES AWAL 2006; MONTREUIL 2017), Qazvin (YARMAND et al. 2012).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014), Turkmenistan (NIKODÝM & BEZDEK 2006, 2016).

New material examined: Tehran province, Alborz Mts., Damavand Mts., 15 km NE from Lar-e Polur, 52°6'N 10"E 35°52'28"E, 2580 m, 1.-2.7.2000, Gy. Fabián & K. Székely lgt. (1♂, 1♀, MNC).

***Glaphyrus (Glaphyrus) varians varians* MÉNÉTRIES, 1836**

Glaphyrus globulicollis MÉNÉTRIÉS, 1836.

Distribution in Iran: Mazandaran (BUNALSKI & GHAHARI 2015b), West Azarbaijan (SAMIN & SAKENIN 2015).

General distribution: Iran (NIKODÝM & BEZDEK 2006, 2016; NIKODÝM & KEITH 2007; BUNALSKI et al. 2014), Turkey (NIKODÝM & BEZDEK 2006, 2016).

Subgenus *Hemiglaphyrus* CHAMPENOIS, 1903

***Glaphyrus (Hemiglaphyrus) caucasicus* KRAATZ, 1882**

Glaphyrus globulicollis MÉNÉTRIÉS, 1839; *Glaphyrus persicus* PIC, 1947.

Distribution in Iran: Iran (no locality cited) (NIKODÝM & BEZDEK 2006, 2016; BUNALSKI et al. 2014).

General distribution: Armenia, Iran, Turkey (NIKODÝM & BEZDEK 2006, 2016).

Doubtful species

***Pygopleurus scutellatus* BRULLÉ, 1832**

Amphicoma scutellata BRULLÉ, 1832.

Distribution in Iran: Tehran (AFSHAR 1944, MODARRES AWAL 1997 as *A. vittata scutellata* BRULLE, 1832).

General distribution: Greece (NIKODÝM & BEZDEK 2006, 2016).

Comments: *P. scutellatus* is known only from Greece, and occurrence in Iran seems unlikely. Thus we exclude it from the list of Iranian Glaphyridae.

Discussion

In this checklist totally 62 species and subspecies from three genera, i.e. *Eulasia* (29 taxa), *Pygopleurus* (19 taxa) and *Glaphyrus* (14 taxa), are given for the Iranian fauna of Glaphyridae. Among them, 18 taxa are endemic to Iran, and *Pygopleurus scutellatus* is doubtful. Additionally, distribution data in Iran is unknown for seven species: *Eulasia (Eulasia) diadema*, *Eulasia (Rudeulasia) papaveris*, *Eulasia (Solskiola) analis*, *Glaphyrus (Glaphyrus) sequensi*, *Glaphyrus (Hemiglaphyrus) caucasicus*, *Pygopleurus gordyenensis* and *Pygopleurus rufovillosus rufovillosus*; so collecting of new materials is necessary to be confirmation their presence in Iran, strongly.

Compared to adjacent countries, the fauna of Iranian Glaphyridae is more similar to Turkish fauna with 33 shared species (Table 1). Among the adjacent countries, only the fauna of Turkey with 89 recorded species and subspecies (NIKODÝM & BEZDEK 2016; which comprehensive and updated checklists on Glaphyridae were available (e.g. CARPANETO et al. 2000; ROZNER & ROZNER 2009). For Afghanistan, Armenia, Azerbaijan, Pakistan and Russia data were retrieved from the Palaearctic catalogue (NIKODÝM & BEZDEK 2016); in addition to the Palaearctic catalogue, new records or recorded species excluded Palaearctic catalogue are used for Iraq (MAWLOOD et al. 2016a: one new species, *Amphicoma hirani* MAWLOOD, AHMED & KADIR, 2016), Turkey (POLAT et al. 2017: one new record, *Eulasia (Eulasia) jordanica* (MITTER, 1992)) and Turkmenistan (ZINCHENKO et al. 1999: two excluded species, *Eulasia (Eulasia) kuschakevitschi*, *E. regeli* BALLION, 1878) (Fig. 2). It is likely that the low number of species recorded from those countries is due to poor collecting and therefore further research on the Glaphyridae fauna of these countries will probably yield many more species and new data about distribution and host records.

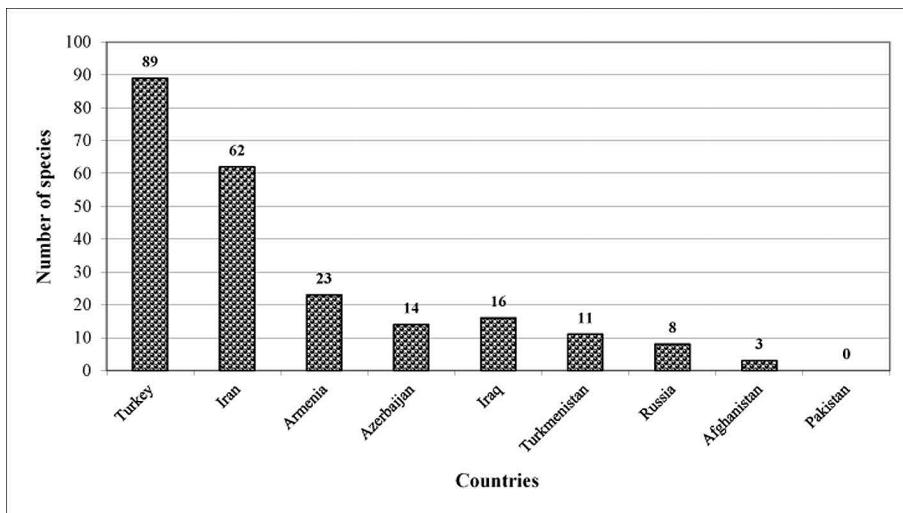


Fig. 2: Species diversity of Glaphyridae in adjacent countries of Iran (adapted from NIKODÝM & BEZDEK 2016).

Tab. 1. Shared species of Glaphyridae between Iran and adjacent countries – excluding endemic species to Iran (adapted from NIKODÝM & BEZDEK 2016).

Family	Genus	Species	Azerbaijan	Iraq	Turkmenistan	Afghanistan	Pakistan	Turkey
Glaphyridae	<i>Eulasia</i>	<i>arctos arctos</i>	x		x			
		<i>arctos armeniaca</i>	x		x			
		<i>aurantiaca</i>			x			
		<i>bombyliformis</i> <i>bombyliformis</i>	x	x	x		x	
		<i>chrysopyga</i>	x	x	x			
		<i>diadema</i>			x			
		<i>kuschakevitschi</i>				x	x	
		<i>nitidicollis</i>			x			
		<i>praeusta</i>			x			
		<i>carinata</i>			x			
		<i>chalybaea</i> <i>chalybaea</i>	x	x			x	
		<i>fastuosa</i>			x			
		<i>genei</i>			x	x		
		<i>papaveris</i>			x	x		
		<i>pulchra kurdistana</i>			x			
		<i>pulchra pulchra</i>	x		x			
		<i>speciosa</i>			x			
		<i>straussi</i>			x	x		
		<i>analis</i>					x	x
		<i>vittata lineata</i>			x	x		
	<i>Pygopleurus</i>	<i>banghaasi</i>					x	
		<i>basalis</i>			x			
		<i>cyaneoviolaceus</i> <i>cyaneoviolaceus</i>		x				
		<i>cyanescens</i>	x	x	x	x		
		<i>distinctus</i>	x	x	x	x		
		<i>gordyenensis</i>	x	x	x			
		<i>immundus</i>			x			
		<i>koniae koniae</i>			x			
		<i>libanonensis</i>			x			

Family	Genus	Species	Armenia	Azerbaijan	Iraq	Turkey	Pakistan	Afghanistan	Turkmenistan
		<i>psilotrichius</i> <i>psilotrichius</i>	x	x		x			x
		<i>rufovillosus</i> <i>rufovillosus</i>	x		x	x			
		<i>transcaucasicus</i>	x	x		x			x
		<i>tristis</i>				x			
		<i>vulpes</i>				x			
	<i>Glaphyrus</i>	<i>festivus</i>	x	x	x	x			
		<i>micans micans</i>	x	x	x	x			
		<i>onopordi</i>			x				
		<i>oxypterus</i>		x					
		<i>sequensi</i>	x			x			
		<i>superbus straussi</i>	x	x		x			
		<i>superbus superbus</i>							x
		<i>varians varians</i>				x			
		<i>caucasicus</i>	x			x			
		<i>calvaster</i>	x						
Number of shared species by country			18	13	12	33	0	2	8

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Zusammenfassung

Vorliegende Arbeit behandelt das Vorkommen der iranischen Glaphyridae (Coleoptera: Scarabaeoidea). Insgesamt gelang der Nachweis von 62 Arten der Gattungen *Eulasia* TRUQUI (29 Arten), *Pygopleurus* MOTSCHULSKY (19 Arten) und *Glaphyrus* LATREILLE (14 Arten). *Pygopleurus scutellatus* BRULLÉ, 1832 bleibt eine fragliche Art.

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